

## Summary

**Total Test Objects:** 2  
**Successful:** 2  
**Failed:** 0  
**Not Executed:** 0  
**Date:** 2015-06-23  
**Time:** 13:21:14+0530

## Overall Test Object Results (including Coverage)



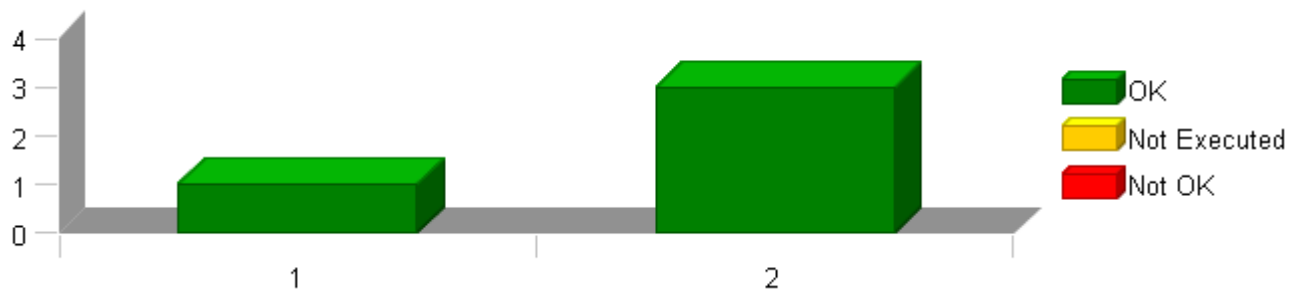
## Selected Project Items

Test Object "CBD\_UnitTest/TrqLOA/TrqLOA\_Init1"  
 Test Object "CBD\_UnitTest/TrqLOA/TrqLOA\_Per1"

## Used Test Environments

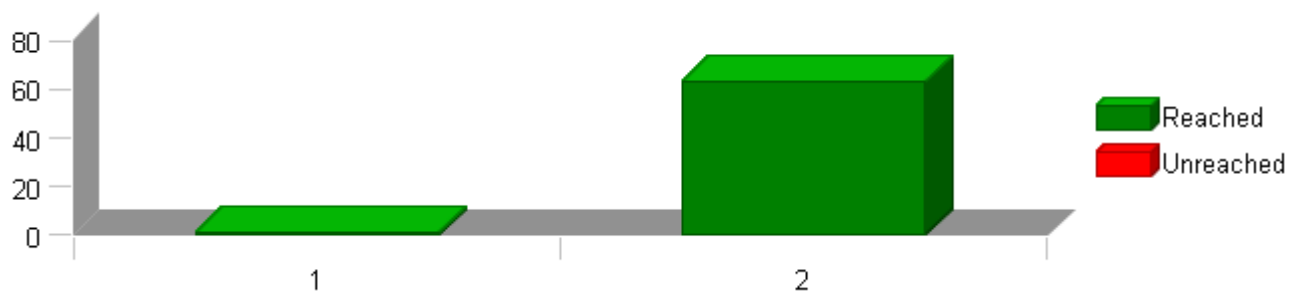
TI TMS 570 PLS UDE (Default)

## Test Case Results for Each Test Object (without Coverage)



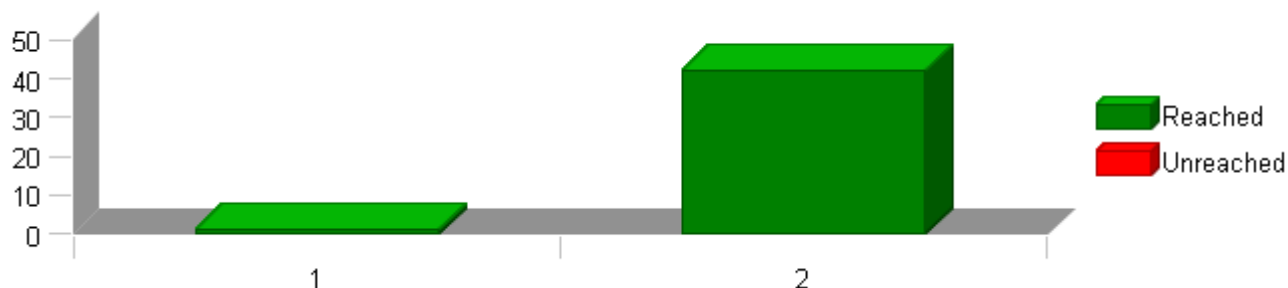
The table above shows each test object on the x axis and the number of test cases of the respective test object on the y axis. Each bar is divided into passed, not executed and failed test cases. The test case results do not take into account any coverage result (i.e. if all test cases of a test object are passed in this table but the coverage is failed, the overall test object result will be failed).

## Statement (C0) Coverage: Total Statements for Each Test Object



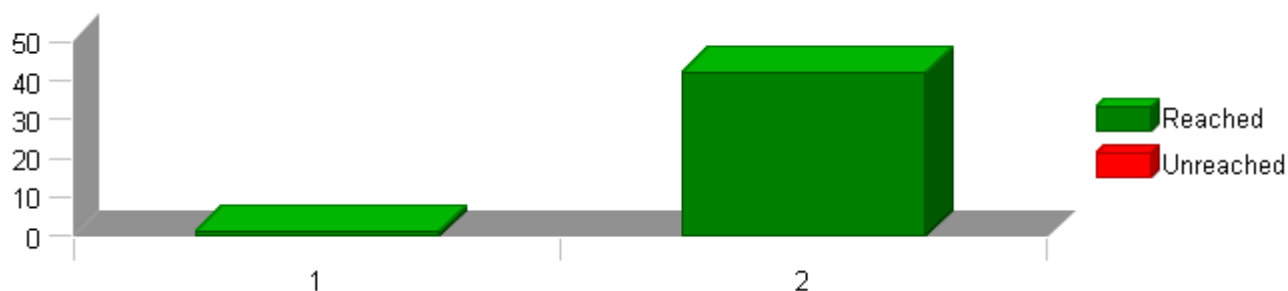
The table above shows each test object on the x axis and the number of statements of the respective test object on the y axis. Each bar is divided into reached statements (i.e. statements that have been executed during the test) and unreached statements.

### Branch (C1) Coverage: Total Branches for Each Test Object



The table above shows each test object on the x axis and the number of branches of the respective test object on the y axis. Each bar is divided into reached branches (i.e. branches that have been executed during the test) and unreached branches.

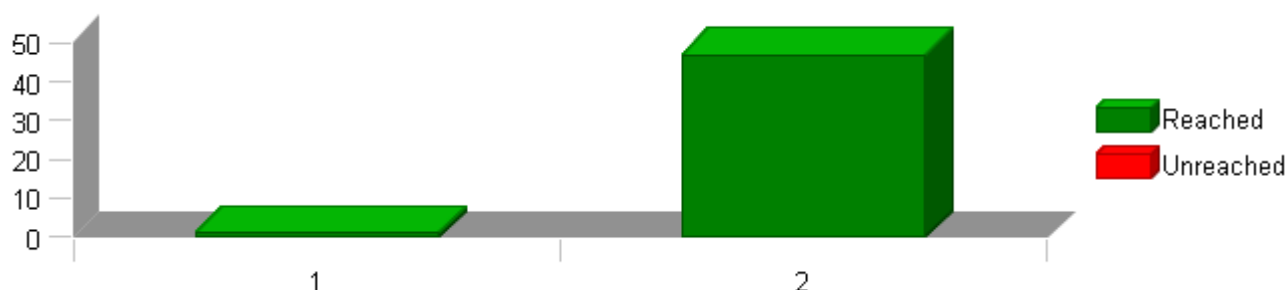
### Decision Coverage: Total Decision Outcomes for Each Test Object



The table above shows test objects on the x axis and the number of possible outcomes of all decisions of the respective test object on the y axis. To achieve full DC coverage, each decision must evaluate to both true and false.

Each bar is divided into reached and unreached decision outcomes.

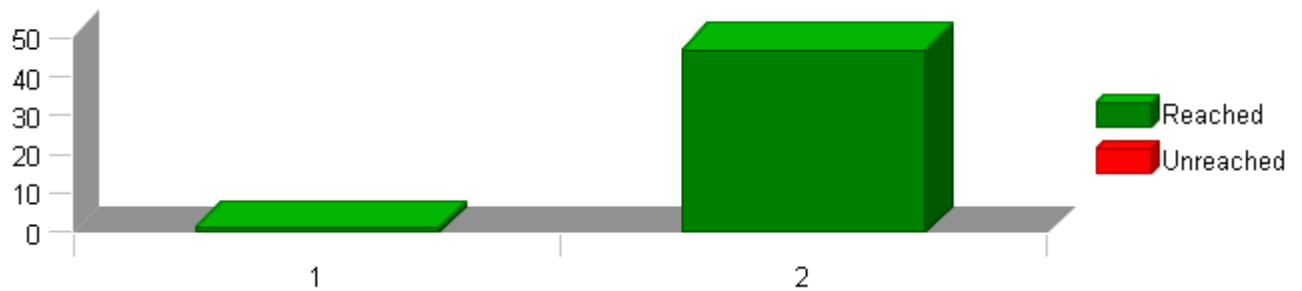
### MC/DC Coverage: Total Condition Combinations for Each Test Object



The table above shows test objects on the x axis and the number of condition combinations of all decisions of the respective test object on the y axis. The number of condition combinations is based on the number of boolean conditions within each decision of the test object. To achieve full MC/DC coverage, each decision requires all contained atomic conditions to evaluate to both true and false independently of all other conditions. The cumulated number of rows within such tables of condition combinations is what is displayed in this table.

Each bar is divided into reached condition combinations (i.e. combinations of boolean condition values that have been executed during the test) and unreached condition combinations.

## MCC Coverage: Total Condition Combinations for Each Test Object



The table above shows test objects on the x axis and the number of condition combinations of all decisions of the respective test object on the y axis. The number of condition combinations is based on the number of boolean conditions within each decision of the test object. To achieve full MCC coverage, each decision requires all contained atomic conditions to evaluate to all possible combinations of true and false values. The cumulated number of rows within such tables of condition combinations is what is displayed in this table.

Each bar is divided into reached condition combinations (i.e. combinations of boolean condition values that have been executed during the test) and unreached condition combinations.

## TEST OVERVIEW REPORT

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Project TrqLOA



### Test Object List

The following table lists all test objects with their test case and coverage results. The cumulated results for modules, folders and test collections are also displayed, the indentation within the name column indicates the parent relationship of the elements.

Please note that only test objects are numbered within the first column. This number is referenced on the x axis within the overview charts for test case and coverage results available on previous pages (if included into the report).

No.	Name	C0	C1	DC	MC/DC	MCC	Test Cases	Result
	TrqLOA	100 %	100 %	100 %	100 %	100 %	4 of 4 passed	✓
	CBD_UnitTest	100 %	100 %	100 %	100 %	100 %	4 of 4 passed	✓
	TrqLOA	100 %	100 %	100 %	100 %	100 %	4 of 4 passed	✓
1	<a href="#">TrqLOA_Init1</a>	100 %	100 %	100 %	100 %	100 %	1 of 1 passed	✓
2	<a href="#">TrqLOA_Per1</a>	100 %	100 %	100 %	100 %	100 %	3 of 3 passed	✓

# TEST DETAILS REPORT

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TrqLOA\_Per1

Project	TrqLOA
Module	TrqLOA
Test Object	TrqLOA_Per1

## Instrumentation: Test Object Only

Statement (C0) Coverage	100 %
Decision Coverage	100 %
Branch (C1) Coverage	100 %
MCC Coverage	100 %
MC/DC Coverage	100 %

## Statistics

Total Testcases	3
Successful	3 ✓
Failed	0
Not Executed	0

## Module Properties

Project Root Directory	D:\Synergy_Work_Area\TrqLOA_SF48A
Configuration File	\$(PROJECTROOT)\UnitTestEnv\config\TMS570_GCC_UDE_CCS4_Config.xml
Target Environment	TI TMS 570 PLS UDE (Default)
Kind of Test	Unit Test
Linker Options	
Source File(s)	
File	\$(PROJECTROOT)\TrqLOA\src\Ap_TrqLOA.c
Compiler Options	-D_DATA_ACCESS= -Dconst= -I\$(PROJECTROOT)\TrqLOA\utp\Contract -I\$(PROJECTROOT)\TrqLOA\utp\Contract\Ap_TrqLOA -I\$(PROJECTROOT)\StdDef\include -I\$(PROJECTROOT)\NxrLib\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5\include
File	\$(PROJECTROOT)\NxrLib\src\interpolation.c
Compiler Options	-D_DATA_ACCESS= -Dconst= -I\$(PROJECTROOT)\TrqLOA\utp\Contract -I\$(PROJECTROOT)\TrqLOA\utp\Contract\Ap_TrqLOA -I\$(PROJECTROOT)\StdDef\include -I\$(PROJECTROOT)\NxrLib\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5\include

Attributes	
Name	Value
Compiler Install Path	\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5
Float Precision	9
InitObjDir	\$(PROJECTROOT)\UnitTestEnv\static_build_files\obj
InitSrcDir	\$(PROJECTROOT)\UnitTestEnv\static_build_files\src
Linker File	\$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 3.2
Time Unit	Cycles
Timer Enabled	false
Timer Prescale	0
Timer Resolution	1
UDE Config File	\$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg

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TrqLOA\_Per1

Workspace File D:\Synergy\_Work\_Area\TrqLOA\_SF48A\UnitTestEnv\config\UDE\_TMS570\_DEBUG.WSP

## Comments/Description/Specification

Name	Text
Module 'TrqLOA'	<p>*****Unit Test Information*****</p> <p>Name of Tester: Priti Mangalekar Code File(s) Under Test: Ap_TrqLOA.c Code File(s) Version: 2 Module Design Document: TrqLOA_MDD.doc Module Design Document Version: 2 Data Dictionary Version: 3 Unit Test Plan Version: 1 Optimization Level: Level 2 Compiler (CodeGen) Version: TMS470_4.9.5 Model Type: Excel Macro Model Version: Nexteer EPS Unit Test Tool 2.7d/ EPS Library 1.32 Total FLASH Used (Bytes): 1378 Total RAM Used (Bytes): 52 Total CALS Used (Bytes): 204 Special Test Requirements: Test Date: 6/23/2015 Comments: "NOTE1: Inline function defined in ""GlobalMacro.h"" are not unit tested.</p> <p>NOTE2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference."</p> <p>*****</p>
Test Object 'TrqLOA_Per1'	

# TEST DETAILS REPORT

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TrqLOA\_Per1

## Test Case 1: Metrics Test

<b>Specification</b>	Performance Metrics: (With "None" Instrumentation and "WithPS" Environment)  CPU Cycles:  TS1.1 733 Cycles TS1.2 667 Cycles
<b>Description</b>	Vector Description:  TS1.1"Longest Execution Path=> if((TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32 >= k_TrqLOA_AbsAssistThreshold_MtrNm_f32) && (MtrVel_MtrRadpS_T_f32 >= k_TrqLOA_AbsVelThreshold_MtrRadpS_f32))=FALSE else if((TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32 <= (-k_TrqLOA_AbsAssistThreshold_MtrNm_f32)) && (MtrVel_MtrRadpS_T_f32 <= (-k_TrqLOA_AbsVelThreshold_MtrRadpS_f32)))=FALSE "  TS1.2Shortest Execution Path=>if((TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32 >= k_TrqLOA_AbsAssistThreshold_MtrNm_f32) && (MtrVel_MtrRadpS_T_f32 >= k_TrqLOA_AbsVelThreshold_MtrRadpS_f32))=TRUE

## Test Step 1.1 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.5
TrqLOA_LatAccelSV_g_M_StrSV_Uls_f32	0.200000003
TrqLOA_LatAccelSV_g_M_StrK_Uls_f32	0.0140000004
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.65911293
TrqLOA_TloaCmd_MtrNm_M_f32	-7
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.20000005
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	8.3897934
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	292.217896
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-100
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	35.2165909
k_TrqLOA_FallingRampRate_UlspS_f32	-665.315002
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.95698261
k_TrqLOA_LimOutput_MtrNm_f32	2.75277615
k_TrqLOA_MaxScaleFactor_Uls_f32	0.694187999
k_TrqLOA_MinScaleFactor_Uls_f32	0.5
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.71295547
k_TrqLOA_RisingRampRate_UlspS_f32	1000
k_TrqLOA_SteerRatio_Uls_f32	48.5321007
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	19.8064346
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_DiffGainX_G_u2p14[0]	5079		
t_TrqLOA_DiffGainX_G_u2p14[1]	6062		
t_TrqLOA_DiffGainX_G_u2p14[2]	6390		
t_TrqLOA_DiffGainX_G_u2p14[3]	6554		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	3520		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	3840		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	4160		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	4480		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	4800		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166		
t_TrqLOA_X_Kph_u10p6[0]	1088		
t_TrqLOA_X_Kph_u10p6[1]	1152		
t_TrqLOA_X_Kph_u10p6[2]	1216		
t_TrqLOA_X_Kph_u10p6[3]	1280		
t_TrqLOA_X_Kph_u10p6[4]	1344		
t_TrqLOA_X_Kph_u10p6[5]	1408		
t_TrqLOA_X_Kph_u10p6[6]	1472		
t_TrqLOA_X_Kph_u10p6[7]	1536		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.87261653		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	829.04834		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-375.864563		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	126.835663		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.399993896	0.399993896	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.192544758	0.192544758	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.5	0.5	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	1	1	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 1.2 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0434999987	



# TEST DETAILS REPORT

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TrqLOA\_Per1

Name	Input Value
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019
TrqLOA_TloaCmd_MtrNm_M_f32	6
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.200000003
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.98309565
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	909.534851
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-24.0498333
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	0
k_TrqLOA_FallingRampRate_UlspS_f32	-1000
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.6829052
k_TrqLOA_LimOutput_MtrNm_f32	3.57006645
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.726554036
k_TrqLOA_RisingRampRate_UlspS_f32	0
k_TrqLOA_SteerRatio_Uls_f32	6.56352139
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	3.98621607
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	32768
t_TrqLOA_DiffGainX_G_u2p14[0]	32768
t_TrqLOA_DiffGainX_G_u2p14[1]	32768
t_TrqLOA_DiffGainX_G_u2p14[2]	32768
t_TrqLOA_DiffGainX_G_u2p14[3]	32768
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	32768
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	32768
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	32768
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	32768
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901		
t_TrqLOA_X_Kph_u10p6[0]	6208		
t_TrqLOA_X_Kph_u10p6[1]	6272		
t_TrqLOA_X_Kph_u10p6[2]	6336		
t_TrqLOA_X_Kph_u10p6[3]	6400		
t_TrqLOA_X_Kph_u10p6[4]	6464		
t_TrqLOA_X_Kph_u10p6[5]	6528		
t_TrqLOA_X_Kph_u10p6[6]	6592		
t_TrqLOA_X_Kph_u10p6[7]	6656		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.825533628		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.187185764		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1207.13953		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	863.729614		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	157.958984		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0	0	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.513088524	0.513088584	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.200000003	0.200000003	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0	✓

# TEST DETAILS REPORT

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## Test Case 2: Boundary Test



# TEST DETAILS REPORT

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TrqLOA\_Per1

## Specification

Performance Metrics:  
(With "None" Instrumentation and "WithPS"  
Environment)

CPU Cycles:

TS2.1 641 Cycles  
TS2.2 794 Cycles  
TS2.3 729 Cycles  
TS2.4 831 Cycles  
TS2.5 732 Cycles  
TS2.6 725 Cycles  
TS2.7 728 Cycles  
TS2.8 719 Cycles  
TS2.9 717 Cycles  
TS2.10 716 Cycles  
TS2.11 818 Cycles  
TS2.12 698 Cycles  
TS2.13 707 Cycles  
TS2.14 719 Cycles  
TS2.15 664 Cycles  
TS2.16 712 Cycles  
TS2.17 668 Cycles  
TS2.18 738 Cycles  
TS2.19 759 Cycles  
TS2.20 686 Cycles  
TS2.21 722 Cycles  
TS2.22 709 Cycles  
TS2.23 720 Cycles  
TS2.24 718 Cycles  
TS2.25 693 Cycles  
TS2.26 729 Cycles  
TS2.27 722 Cycles  
TS2.28 725 Cycles  
TS2.29 663 Cycles  
TS2.30 675 Cycles  
TS2.31 713 Cycles  
TS2.32 692 Cycles  
TS2.33 686 Cycles  
TS2.34 662 Cycles  
TS2.35 694 Cycles  
TS2.36 654 Cycles  
TS2.37 693 Cycles  
TS2.38 726 Cycles  
TS2.39 685 Cycles  
TS2.40 686 Cycles  
TS2.41 665 Cycles  
TS2.42 696 Cycles  
TS2.43 719 Cycles  
TS2.44 660 Cycles  
TS2.45 679 Cycles  
TS2.46 759 Cycles  
TS2.47 717 Cycles  
TS2.48 723 Cycles  
TS2.49 758 Cycles  
TS2.50 665 Cycles  
TS2.51 678 Cycles  
TS2.52 710 Cycles  
TS2.53 731 Cycles  
TS2.54 736 Cycles  
TS2.55 720 Cycles  
TS2.56 699 Cycles  
TS2.57 733 Cycles  
TS2.58 721 Cycles  
TS2.59 723 Cycles  
TS2.60 719 Cycles  
TS2.61 722 Cycles  
TS2.62 660 Cycles  
TS2.63 715 Cycles  
TS2.64 694 Cycles  
TS2.65 691 Cycles  
TS2.66 659 Cycles  
TS2.67 723 Cycles  
TS2.68 737 Cycles  
TS2.69 689 Cycles  
TS2.70 729 Cycles  
TS2.71 728 Cycles  
TS2.72 704 Cycles  
TS2.73 723 Cycles  
TS2.74 703 Cycles  
TS2.75 661 Cycles  
TS2.76 741 Cycles  
TS2.77 663 Cycles  
TS2.78 720 Cycles  
TS2.79 704 Cycles  
TS2.80 728 Cycles  
TS2.81 700 Cycles  
TS2.82 712 Cycles  
TS2.83 735 Cycles  
TS2.84 762 Cycles  
TS2.85 807 Cycles  
TS2.86 815 Cycles  
TS2.87 778 Cycles  
TS2.88 657 Cycles  
TS2.89 664 Cycles  
TS2.90 677 Cycles  
TS2.91 638 Cycles  
TS2.92 665 Cycles  
TS2.93 731 Cycles  
TS2.94 671 Cycles  
TS2.95 725 Cycles  
TS2.96 725 Cycles  
TS2.97 648 Cycles  
TS2.98 675 Cycles  
TS2.99 672 Cycles  
TS2.100 677 Cycles  
TS2.101 731 Cycles  
TS2.102 700 Cycles  
TS2.103 718 Cycles  
TS2.104 806 Cycles  
TS2.105 695 Cycles  
TS2.106 713 Cycles  
TS2.107 736 Cycles  
TS2.108 730 Cycles

# TEST DETAILS REPORT

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TS2.109 712 Cycles  
TS2.110 714 Cycles  
TS2.111 736 Cycles  
TS2.112 741 Cycles  
TS2.113 729 Cycles  
TS2.114 804 Cycles  
TS2.115 719 Cycles  
TS2.116 730 Cycles  
TS2.117 713 Cycles  
TS2.118 725 Cycles  
TS2.119 708 Cycles  
TS2.120 704 Cycles  
TS2.121 712 Cycles  
TS2.122 696 Cycles  
TS2.123 709 Cycles  
TS2.124 716 Cycles  
TS2.125 717 Cycles  
TS2.126 655 Cycles  
TS2.127 723 Cycles  
TS2.128 704 Cycles  
TS2.129 722 Cycles  
TS2.130 750 Cycles  
TS2.131 725 Cycles  
TS2.132 707 Cycles  
TS2.133 740 Cycles  
TS2.134 666 Cycles  
TS2.135 702 Cycles  
TS2.136 740 Cycles  
TS2.137 700 Cycles  
TS2.138 732 Cycles  
TS2.139 725 Cycles  
TS2.140 667 Cycles

# TEST DETAILS REPORT

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TrqLOA\_Per1

Description	Vector Description:
	TS2.1All Min
	TS2.2All Max
	TS2.3HandwheelAuthority_Uls_f32==>Min
	TS2.4HandwheelAuthority_Uls_f32==>Max
	TS2.5HandwheelAuthority_Uls_f32==>Pos
	TS2.6RelHwPos_HwDeg_f32==>Min
	TS2.7RelHwPos_HwDeg_f32==>Max
	TS2.8RelHwPos_HwDeg_f32==>Pos
	TS2.9RelHwPos_HwDeg_f32==>Zero
	TS2.10RelHwPos_HwDeg_f32==>Neg
	TS2.11LatAccelValid_Cnt_Igc==>Min
	TS2.12LatAccelValid_Cnt_Igc==>Max
	TS2.13LatAccelValid_Cnt_Igc==>Pos
	TS2.14LatAcc_MpSecSq_f32==>Min
	TS2.15LatAcc_MpSecSq_f32==>Max
	TS2.16LatAcc_MpSecSq_f32==>Pos
	TS2.17LatAcc_MpSecSq_f32==>Zero
	TS2.18LatAcc_MpSecSq_f32==>Neg
	TS2.19MotAgLoaMtgtnEn_Cnt_Igc==>Min
	TS2.20MotAgLoaMtgtnEn_Cnt_Igc==>Max
	TS2.21MotAgLoaMtgtnEn_Cnt_Igc==>Pos
	TS2.22MtrVelCRF_MtrRadpS_f32==>Min
	TS2.23MtrVelCRF_MtrRadpS_f32==>Max
	TS2.24MtrVelCRF_MtrRadpS_f32==>Pos
	TS2.25MtrVelCRF_MtrRadpS_f32==>Zero
	TS2.26MtrVelCRF_MtrRadpS_f32==>Neg
	TS2.27VehicleSpeedValid_Cnt_Igc==>Min
	TS2.28VehicleSpeedValid_Cnt_Igc==>Max
	TS2.29VehicleSpeedValid_Cnt_Igc==>Pos
	TS2.30VehicleSpeed_Kph_f32==>Min
	TS2.31VehicleSpeed_Kph_f32==>Max
	TS2.32VehicleSpeed_Kph_f32==>Pos
	TS2.33k_TrqLOA_LatAccConversionFactor_Uls_f32==>Min
	TS2.34k_TrqLOA_LatAccConversionFactor_Uls_f32==>Max
	TS2.35k_TrqLOA_LatAccConversionFactor_Uls_f32==>Pos
	TS2.36k_TrqLOA_SteerRatio_Uls_f32==>Min
	TS2.37k_TrqLOA_SteerRatio_Uls_f32==>Max
	TS2.38k_TrqLOA_SteerRatio_Uls_f32==>Pos
	TS2.39k_TrqLOA_Wheelbase_M_f32==>Min
	TS2.40k_TrqLOA_Wheelbase_M_f32==>Max
	TS2.41k_TrqLOA_Wheelbase_M_f32==>Pos
	TS2.42k_TrqLOA_NomDrvTrq_MtrNm_f32==>Min
	TS2.43k_TrqLOA_NomDrvTrq_MtrNm_f32==>Max
	TS2.44k_TrqLOA_NomDrvTrq_MtrNm_f32==>Pos
	TS2.45k_TrqLOA_AbsAssistThreshold_MtrNm_f32==>Min
	TS2.46k_TrqLOA_AbsAssistThreshold_MtrNm_f32==>Max
	TS2.47k_TrqLOA_AbsAssistThreshold_MtrNm_f32==>Pos
	TS2.48TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32==>Min
	TS2.49TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32==>Max
	TS2.50TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32==>Pos
	TS2.51TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32==>Zero
	TS2.52TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32==>Neg
	TS2.53k_TrqLOA_AbsVelThreshold_MtrRadpS_f32==>Min
	TS2.54k_TrqLOA_AbsVelThreshold_MtrRadpS_f32==>Max
	TS2.55k_TrqLOA_AbsVelThreshold_MtrRadpS_f32==>Pos
	TS2.56k_TrqLOA_MaxScaleFactor_Uls_f32==>Min
	TS2.57k_TrqLOA_MaxScaleFactor_Uls_f32==>Max
	TS2.58k_TrqLOA_MaxScaleFactor_Uls_f32==>Pos
	TS2.59k_TrqLOA_MinScaleFactor_Uls_f32==>Min
	TS2.60k_TrqLOA_MinScaleFactor_Uls_f32==>Max
	TS2.61k_TrqLOA_MinScaleFactor_Uls_f32==>Pos
	TS2.62TrqLOA_TrqBasedScaleFactor_Uls_M_f32==>Min
	TS2.63TrqLOA_TrqBasedScaleFactor_Uls_M_f32==>Max
	TS2.64TrqLOA_TrqBasedScaleFactor_Uls_M_f32==>Pos
	TS2.65TrqLOA_TrqBasedScaleFactor_Uls_M_f32==>Zero
	TS2.66TrqLOA_TrqBasedScaleFactor_Uls_M_f32==>Neg
	TS2.67k_TrqLOA_FallingRampRate_UlspS_f32==>Min
	TS2.68k_TrqLOA_FallingRampRate_UlspS_f32==>Max
	TS2.69k_TrqLOA_FallingRampRate_UlspS_f32==>Mid
	TS2.70k_TrqLOA_RisingRampRate_UlspS_f32==>Min
	TS2.71k_TrqLOA_RisingRampRate_UlspS_f32==>Max
	TS2.72k_TrqLOA_RisingRampRate_UlspS_f32==>Pos
	TS2.73t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[5]==>Min
	TS2.74t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[5]==>Max
	TS2.75t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[5]==>Pos
	TS2.76t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[5]==>Min
	TS2.77t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[5]==>Max
	TS2.78t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[5]==>Pos
	TS2.79t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[8]==>Min
	TS2.80t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[8]==>Max
	TS2.81t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[8]==>Pos
	TS2.82t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[8]==>Min
	TS2.83t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[8]==>Max
	TS2.84t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[8]==>Pos
	TS2.85t_TrqLOA_X_Kph_u10p6[8]==>Min
	TS2.86t_TrqLOA_X_Kph_u10p6[8]==>Max
	TS2.87t_TrqLOA_X_Kph_u10p6[8]==>Pos
	TS2.88TrqLOA_LatAccScaleFactor_Uls_M_f32==>Min
	TS2.89TrqLOA_LatAccScaleFactor_Uls_M_f32==>Max
	TS2.90TrqLOA_LatAccScaleFactor_Uls_M_f32==>Pos
	TS2.91k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32==>Min
	TS2.92k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32==>Max
	TS2.93k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32==>Mid
	TS2.94TrqLOA_TloaCmd_MtrNm_M_f32==>Min

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TrqLOA\_Per1

TS2.95TrqLOA\_TloaCmd\_MtrNm\_M\_f32==>Max  
 TS2.96TrqLOA\_TloaCmd\_MtrNm\_M\_f32==>Pos  
 TS2.97TrqLOA\_TloaCmd\_MtrNm\_M\_f32==>Zero  
 TS2.98TrqLOA\_TloaCmd\_MtrNm\_M\_f32==>Neg  
 TS2.99TrqLOA\_LatAccelSV\_g\_M\_Str.SV==>Min  
 TS2.100TrqLOA\_LatAccelSV\_g\_M\_Str.SV==>Max  
 TS2.101TrqLOA\_LatAccelSV\_g\_M\_Str.SV==>Pos  
 TS2.102k\_TrqLOA\_UndersteerGrad\_RadpG\_f32==>Min  
 TS2.103k\_TrqLOA\_UndersteerGrad\_RadpG\_f32==>Max  
 TS2.104k\_TrqLOA\_UndersteerGrad\_RadpG\_f32==>Pos  
 TS2.105k\_TrqLOA\_DiffScaleRateLimiterRising\_UlspS\_f32==>Min  
 TS2.106k\_TrqLOA\_DiffScaleRateLimiterRising\_UlspS\_f32==>Max  
 TS2.107k\_TrqLOA\_DiffScaleRateLimiterRising\_UlspS\_f32==>Pos  
 TS2.108t\_TrqLOA\_DiffGainX\_G\_u2p14[4]==>Min  
 TS2.109t\_TrqLOA\_DiffGainX\_G\_u2p14[4]==>Max  
 TS2.110t\_TrqLOA\_DiffGainX\_G\_u2p14[4]==>Pos  
 TS2.111t2\_TrqLOA\_DiffGainY1\_Uls\_u1p15[4]==>Min  
 TS2.112t2\_TrqLOA\_DiffGainY1\_Uls\_u1p15[4]==>Max  
 TS2.113t2\_TrqLOA\_DiffGainY1\_Uls\_u1p15[4]==>Pos  
 TS2.114t2\_TrqLOA\_DiffGainY2\_Uls\_u1p15[4]==>Min  
 TS2.115t2\_TrqLOA\_DiffGainY2\_Uls\_u1p15[4]==>Max  
 TS2.116t2\_TrqLOA\_DiffGainY2\_Uls\_u1p15[4]==>Pos  
 TS2.117t2\_TrqLOA\_DiffGainY3\_Uls\_u1p15[4]==>Min  
 TS2.118t2\_TrqLOA\_DiffGainY3\_Uls\_u1p15[4]==>Max  
 TS2.119t2\_TrqLOA\_DiffGainY3\_Uls\_u1p15[4]==>Pos  
 TS2.120t2\_TrqLOA\_DiffGainY4\_Uls\_u1p15[4]==>Min  
 TS2.121t2\_TrqLOA\_DiffGainY4\_Uls\_u1p15[4]==>Max  
 TS2.122t2\_TrqLOA\_DiffGainY4\_Uls\_u1p15[4]==>Pos  
 TS2.123t2\_TrqLOA\_DiffGainY5\_Uls\_u1p15[4]==>Min  
 TS2.124t2\_TrqLOA\_DiffGainY5\_Uls\_u1p15[4]==>Max  
 TS2.125t2\_TrqLOA\_DiffGainY5\_Uls\_u1p15[4]==>Pos  
 TS2.126t2\_TrqLOA\_DiffGainY6\_Uls\_u1p15[4]==>Min  
 TS2.127t2\_TrqLOA\_DiffGainY6\_Uls\_u1p15[4]==>Max  
 TS2.128t2\_TrqLOA\_DiffGainY6\_Uls\_u1p15[4]==>Pos  
 TS2.129t2\_TrqLOA\_DiffGainY7\_Uls\_u1p15[4]==>Min  
 TS2.130t2\_TrqLOA\_DiffGainY7\_Uls\_u1p15[4]==>Max  
 TS2.131t2\_TrqLOA\_DiffGainY7\_Uls\_u1p15[4]==>Pos  
 TS2.132t2\_TrqLOA\_DiffGainY8\_Uls\_u1p15[4]==>Min  
 TS2.133t2\_TrqLOA\_DiffGainY8\_Uls\_u1p15[4]==>Max  
 TS2.134t2\_TrqLOA\_DiffGainY8\_Uls\_u1p15[4]==>Pos  
 TS2.135k\_TrqLOA\_LimOutput\_MtrNm\_f32==>Min  
 TS2.136k\_TrqLOA\_LimOutput\_MtrNm\_f32==>Max  
 TS2.137k\_TrqLOA\_LimOutput\_MtrNm\_f32==>Pos  
 TS2.138TrqLOA\_LatAccelSV\_g\_M\_Str.K==>Min  
 TS2.139TrqLOA\_LatAccelSV\_g\_M\_Str.K==>Max  
 TS2.140TrqLOA\_LatAccelSV\_g\_M\_Str.K==>Pos

## Test Step 2.1 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0125000002
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-8.80000019
TrqLOA_TloaCmd_MtrNm_M_f32	-8.80000019
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	0
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	0
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-100
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	0
k_TrqLOA_FallingRampRate_UlspS_f32	-1000
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.100000001
k_TrqLOA_LimOutput_MtrNm_f32	0
k_TrqLOA_MaxScaleFactor_Uls_f32	0
k_TrqLOA_MinScaleFactor_Uls_f32	0
k_TrqLOA_NomDrvTrq_MtrNm_f32	0
k_TrqLOA_RisingRampRate_UlspS_f32	0
k_TrqLOA_SteerRatio_Uls_f32	1
k_TrqLOA_UndersteerGrad_RadpG_f32	0
k_TrqLOA_Wheelbase_M_f32	0.5
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	0

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	0
t_TrqLOA_DiffGainX_G_u2p14[0]	0
t_TrqLOA_DiffGainX_G_u2p14[1]	0
t_TrqLOA_DiffGainX_G_u2p14[2]	0
t_TrqLOA_DiffGainX_G_u2p14[3]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	0
t_TrqLOA_X_Kph_u10p6[0]	0
t_TrqLOA_X_Kph_u10p6[1]	0
t_TrqLOA_X_Kph_u10p6[2]	0
t_TrqLOA_X_Kph_u10p6[3]	0
t_TrqLOA_X_Kph_u10p6[4]	0
t_TrqLOA_X_Kph_u10p6[5]	0
t_TrqLOA_X_Kph_u10p6[6]	0
t_TrqLOA_X_Kph_u10p6[7]	0
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-10
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-2000
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-1000
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0



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TrqLOA\_Per1

Name	Input Value		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	0		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0	0	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0	0 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TioaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-2	-2 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

## Test Step 2.2 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.670000017
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.714999974
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019
TrqLOA_TioaCmd_MtrNm_M_f32	8.80000019
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	10
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	1000
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	0
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	100
k_TrqLOA_FallingRampRate_UlspS_f32	0
k_TrqLOA_LatAccConversionFactor_Uls_f32	10
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019
k_TrqLOA_RisingRampRate_UlspS_f32	1000
k_TrqLOA_SteerRatio_Uls_f32	100
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	20
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	32768
t_TrqLOA_DiffGainX_G_u2p14[0]	32768
t_TrqLOA_DiffGainX_G_u2p14[1]	32768
t_TrqLOA_DiffGainX_G_u2p14[2]	32768
t_TrqLOA_DiffGainX_G_u2p14[3]	32768
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	25600
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	25600

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Name	Input Value		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	25600		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	25600		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	25600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61440		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	36045		
t_TrqLOA_X_Kph_u10p6[0]	25600		
t_TrqLOA_X_Kph_u10p6[1]	25600		
t_TrqLOA_X_Kph_u10p6[2]	25600		
t_TrqLOA_X_Kph_u10p6[3]	25600		
t_TrqLOA_X_Kph_u10p6[4]	25600		
t_TrqLOA_X_Kph_u10p6[5]	25600		
t_TrqLOA_X_Kph_u10p6[6]	25600		
t_TrqLOA_X_Kph_u10p6[7]	25600		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	2000		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	1000		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	511		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	1	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.671402872	0.671402872 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.27943039	1.2794311 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	1.27943039	1.2794311 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2	2 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	1.27943039	1.2794311 ± 0.01	✔

Test Step 2.3 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.985183835	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0130000003	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.7119751	
TrqLOA_TloaCmd_MtrNm_M_f32	-8	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.970122039	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.60568953	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	135.044952	
k_TrqLOA_DiffScaleRateLimiterFalling_Ulps_f32	-98.6264648	

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TrqLOA\_Per1

Name	Input Value
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	27.9837322
k_TrqLOA_FallingRampRate_UlspS_f32	-285.769348
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.11622667
k_TrqLOA_LimOutput_MtrNm_f32	2.05712366
k_TrqLOA_MaxScaleFactor_Uls_f32	0.47853148
k_TrqLOA_MinScaleFactor_Uls_f32	0.21500051
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.11723351
k_TrqLOA_RisingRampRate_UlspS_f32	775.606445
k_TrqLOA_SteerRatio_Uls_f32	27.0728893
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0683564693
k_TrqLOA_Wheelbase_M_f32	20
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	328
t_TrqLOA_DiffGainX_G_u2p14[1]	1229
t_TrqLOA_DiffGainX_G_u2p14[2]	2458
t_TrqLOA_DiffGainX_G_u2p14[3]	3113
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	1280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	1600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_X_Kph_u10p6[0]	64		
t_TrqLOA_X_Kph_u10p6[1]	128		
t_TrqLOA_X_Kph_u10p6[2]	192		
t_TrqLOA_X_Kph_u10p6[3]	256		
t_TrqLOA_X_Kph_u10p6[4]	320		
t_TrqLOA_X_Kph_u10p6[5]	384		
t_TrqLOA_X_Kph_u10p6[6]	448		
t_TrqLOA_X_Kph_u10p6[7]	512		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.205600679		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1986.76208		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	290.911285		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	392.295563		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.787930906	0.787930906	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.127424985	0.127424985 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.465865254	0.465865254 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.465865254	0.465865254 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.21500051	0.21500051 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.465865254	0.465865254 ± 0.01	✔

Test Step 2.4 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0135000004	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019	
TrqLOA_TloaCmd_MtrNm_M_f32	-7.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.399481773	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.01481533	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	479.457977	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-27.0471287	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	59.5514755	
k_TrqLOA_FallingRampRate_UlspS_f32	-645.648438	
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.51897812	
k_TrqLOA_LimOutput_MtrNm_f32	1.56783617	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	0.791850328	
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019	
k_TrqLOA_RisingRampRate_UlspS_f32	618.79248	
k_TrqLOA_SteerRatio_Uls_f32	37.3851547	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0208133459	
k_TrqLOA_Wheelbase_M_f32	7.83032274	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554	

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096
t_TrqLOA_DiffGainX_G_u2p14[2]	4751
t_TrqLOA_DiffGainX_G_u2p14[3]	4915
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	1920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	2240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	2560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	2880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	3200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347
t_TrqLOA_X_Kph_u10p6[0]	576
t_TrqLOA_X_Kph_u10p6[1]	640
t_TrqLOA_X_Kph_u10p6[2]	704
t_TrqLOA_X_Kph_u10p6[3]	768
t_TrqLOA_X_Kph_u10p6[4]	832
t_TrqLOA_X_Kph_u10p6[5]	896
t_TrqLOA_X_Kph_u10p6[6]	960
t_TrqLOA_X_Kph_u10p6[7]	1024
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.305431128
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-112.906868
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	963.27478

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TrqLOA\_Per1

Name	Input Value	Expected Value	Result
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	9.5098877		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.945905745	0.945905745	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.148525566	0.148525566 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.791850328	0.791850328 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

## Test Step 2.5 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0140000004
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.65911293
TrqLOA_TloaCmd_MtrNm_M_f32	-7
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.847059309
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	8.3897934
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	292.217896
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-57.2000008
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	35.2165909
k_TrqLOA_FallingRampRate_UlspS_f32	-665.315002
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.95698261
k_TrqLOA_LimOutput_MtrNm_f32	2.75277615
k_TrqLOA_MaxScaleFactor_Uls_f32	0.694187999
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.71295547
k_TrqLOA_RisingRampRate_UlspS_f32	72.5325775
k_TrqLOA_SteerRatio_Uls_f32	48.5321007
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	19.8064346
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	5079
t_TrqLOA_DiffGainX_G_u2p14[1]	6062
t_TrqLOA_DiffGainX_G_u2p14[2]	6390
t_TrqLOA_DiffGainX_G_u2p14[3]	6554
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	3520

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Name	Input Value		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	3840		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	4160		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	4480		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	4800		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166		
t_TrqLOA_X_Kph_u10p6[0]	1088		
t_TrqLOA_X_Kph_u10p6[1]	1152		
t_TrqLOA_X_Kph_u10p6[2]	1216		
t_TrqLOA_X_Kph_u10p6[3]	1280		
t_TrqLOA_X_Kph_u10p6[4]	1344		
t_TrqLOA_X_Kph_u10p6[5]	1408		
t_TrqLOA_X_Kph_u10p6[6]	1472		
t_TrqLOA_X_Kph_u10p6[7]	1536		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.87261653		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	829.04834		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-375.864563		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	126.835663		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.885599971	0.88560003	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.192544758	0.192544758 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.701994181	-0.701994181 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	1	1	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.6 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0144999996	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	3.59543157	
TrqLOA_TloaCmd_MtrNm_M_f32	-6.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.39014351	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	1.27029252	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	755.878723	



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Name	Input Value
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-72.3093185
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	42.3036995
k_TrqLOA_FallingRampRate_UlspS_f32	-874.466431
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.47294426
k_TrqLOA_LimOutput_MtrNm_f32	4.33422327
k_TrqLOA_MaxScaleFactor_Uls_f32	0.956338644
k_TrqLOA_MinScaleFactor_Uls_f32	0.565083027
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.66239977
k_TrqLOA_RisingRampRate_UlspS_f32	694.85498
k_TrqLOA_SteerRatio_Uls_f32	82.5900421
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	9.69703865
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	6881
t_TrqLOA_DiffGainX_G_u2p14[1]	7864
t_TrqLOA_DiffGainX_G_u2p14[2]	8520
t_TrqLOA_DiffGainX_G_u2p14[3]	9830
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	5120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	5440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	5760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	6080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	6400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166



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Name	Input Value		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986		
t_TrqLOA_X_Kph_u10p6[0]	1600		
t_TrqLOA_X_Kph_u10p6[1]	1664		
t_TrqLOA_X_Kph_u10p6[2]	1728		
t_TrqLOA_X_Kph_u10p6[3]	1792		
t_TrqLOA_X_Kph_u10p6[4]	1856		
t_TrqLOA_X_Kph_u10p6[5]	1920		
t_TrqLOA_X_Kph_u10p6[6]	1984		
t_TrqLOA_X_Kph_u10p6[7]	2048		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.579124928		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.55771828		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1821.27563		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-1000		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	275.952087		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.85538137	0.85538137	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.234863549	0.234863549 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-2.49504423	-2.49504447 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-2.49504423	-2.49504447 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.956338644	0.956338644 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-2.49504423	-2.49504447 ± 0.01	✔

## Test Step 2.7 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0149999997
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-6.72275496
TrqLOA_TloaCmd_MtrNm_M_f32	-6
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.17499852
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	347.261871
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-44.840065
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	86.2324982
k_TrqLOA_FallingRampRate_UlspS_f32	-756.371094
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.32888663
k_TrqLOA_LimOutput_MtrNm_f32	0.718581259
k_TrqLOA_MaxScaleFactor_Uls_f32	0.774256825
k_TrqLOA_MinScaleFactor_Uls_f32	0.954615474
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.232903108
k_TrqLOA_RisingRampRate_UlspS_f32	62.9472733
k_TrqLOA_SteerRatio_Uls_f32	96.6698685
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	17.6621571
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	8684
t_TrqLOA_DiffGainX_G_u2p14[1]	9667
t_TrqLOA_DiffGainX_G_u2p14[2]	10650
t_TrqLOA_DiffGainX_G_u2p14[3]	13107
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	6720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	7040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	7360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	7680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	8000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805
t_TrqLOA_X_Kph_u10p6[0]	2112
t_TrqLOA_X_Kph_u10p6[1]	2176
t_TrqLOA_X_Kph_u10p6[2]	2240
t_TrqLOA_X_Kph_u10p6[3]	2304
t_TrqLOA_X_Kph_u10p6[4]	2368
t_TrqLOA_X_Kph_u10p6[5]	2432
t_TrqLOA_X_Kph_u10p6[6]	2496
t_TrqLOA_X_Kph_u10p6[7]	2560
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.603896022
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	6.27994013
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	143.502243

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TrqLOA\_Per1

Name	Input Value	Expected Value	Result
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	1000		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	469.321564		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.910319865	0.910319865	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.305908352	0.305908352 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.16507566	1.16507542 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0.718581259	0.718581259 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.954615474	0.954615474 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.718581259	0.718581259 ± 0.01	✓

## Test Step 2.8 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.935303211
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.349999994
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0154999997
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.36703587
TrqLOA_TloaCmd_MtrNm_M_f32	-5.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.730413675
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.13476944
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	565.453003
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-79.9842224
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	55.5632286
k_TrqLOA_FallingRampRate_UlspS_f32	-646.1427
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.968328416
k_TrqLOA_LimOutput_MtrNm_f32	7.56691027
k_TrqLOA_MaxScaleFactor_Uls_f32	0.38239193
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.75238705
k_TrqLOA_RisingRampRate_UlspS_f32	693.429382
k_TrqLOA_SteerRatio_Uls_f32	49.4194031
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	18.5747547
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	10486
t_TrqLOA_DiffGainX_G_u2p14[1]	11469
t_TrqLOA_DiffGainX_G_u2p14[2]	12780
t_TrqLOA_DiffGainX_G_u2p14[3]	16384

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	8320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	8640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	8960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	9280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	9600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624		
t_TrqLOA_X_Kph_u10p6[0]	2624		
t_TrqLOA_X_Kph_u10p6[1]	2688		
t_TrqLOA_X_Kph_u10p6[2]	2752		
t_TrqLOA_X_Kph_u10p6[3]	2816		
t_TrqLOA_X_Kph_u10p6[4]	2880		
t_TrqLOA_X_Kph_u10p6[5]	2944		
t_TrqLOA_X_Kph_u10p6[6]	3008		
t_TrqLOA_X_Kph_u10p6[7]	3072		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.03180599		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-970.46582		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	255		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	239.056885		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.775334775	0.775334775	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.349366665	0.349372685 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

## Test Step 2.9 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.386923671
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0160000008
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-2.25017142
TrqLOA_TloaCmd_MtrNm_M_f32	-5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.50114989
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.29628921

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TrqLOA\_Per1

Name	Input Value
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	118.545525
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-97.4050827
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	65.1571655
k_TrqLOA_FallingRampRate_UlspS_f32	-180.683548
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.771945
k_TrqLOA_LimOutput_MtrNm_f32	0.855211735
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.73919785
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.23845387
k_TrqLOA_RisingRampRate_UlspS_f32	282.893677
k_TrqLOA_SteerRatio_Uls_f32	74.9537659
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	6.75685263
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	12288
t_TrqLOA_DiffGainX_G_u2p14[1]	13271
t_TrqLOA_DiffGainX_G_u2p14[2]	14909
t_TrqLOA_DiffGainX_G_u2p14[3]	19661
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443		
t_TrqLOA_X_Kph_u10p6[0]	3136		
t_TrqLOA_X_Kph_u10p6[1]	3200		
t_TrqLOA_X_Kph_u10p6[2]	3264		
t_TrqLOA_X_Kph_u10p6[3]	3328		
t_TrqLOA_X_Kph_u10p6[4]	3392		
t_TrqLOA_X_Kph_u10p6[5]	3456		
t_TrqLOA_X_Kph_u10p6[6]	3520		
t_TrqLOA_X_Kph_u10p6[7]	3584		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.0280352831		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.22382641		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-442.008911		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	0		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	232.319672		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.299987793	0.299987793	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.393600017	0.393599987 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.935362518	-0.935362577 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.10 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.4499999988			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0164999999			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019			
TrqLOA_TloaCmd_MtrNm_M_f32	-4.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.39562833			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.50173283			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	273.207611			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-36.3950081			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	24.804491			
k_TrqLOA_FallingRampRate_UlspS_f32	-524.556824			
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.5640192			
k_TrqLOA_LimOutput_MtrNm_f32	3.37794185			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.959547281			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	3.03419685			
k_TrqLOA_RisingRampRate_UlspS_f32	12.2064705			
k_TrqLOA_SteerRatio_Uls_f32	40.7518044			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	16.9196377			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780			

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	14090
t_TrqLOA_DiffGainX_G_u2p14[1]	15073
t_TrqLOA_DiffGainX_G_u2p14[2]	17039
t_TrqLOA_DiffGainX_G_u2p14[3]	22938
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	11520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	11840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	12160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	12480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	12800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262
t_TrqLOA_X_Kph_u10p6[0]	3648
t_TrqLOA_X_Kph_u10p6[1]	3712
t_TrqLOA_X_Kph_u10p6[2]	3776
t_TrqLOA_X_Kph_u10p6[3]	3840
t_TrqLOA_X_Kph_u10p6[4]	3904
t_TrqLOA_X_Kph_u10p6[5]	3968
t_TrqLOA_X_Kph_u10p6[6]	4032
t_TrqLOA_X_Kph_u10p6[7]	4096
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.578490138
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0



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TrqLOA\_Per1

Name	Input Value	Expected Value	Result
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1839.10022		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-592		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	265.125061		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.927209973	0.927209973	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.427665889	0.427663118 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.19882917	-3.19882917 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	-3.19882917	-3.19882917 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-3.19882917	-3.19882917 ± 0.01	✓

## Test Step 2.11 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0170000009
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	6.31133032
TrqLOA_TloaCmd_MtrNm_M_f32	-4
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.0365312696
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.3778944
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	51.5899467
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-75.230217
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	48.0125961
k_TrqLOA_FallingRampRate_UlspS_f32	-961.261719
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.47277641
k_TrqLOA_LimOutput_MtrNm_f32	6.38434887
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.0216306448
k_TrqLOA_NomDrvTrq_MtrNm_f32	3.72263956
k_TrqLOA_RisingRampRate_UlspS_f32	513.838379
k_TrqLOA_SteerRatio_Uls_f32	34.9043198
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	14.8978052
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	15892
t_TrqLOA_DiffGainX_G_u2p14[1]	16876
t_TrqLOA_DiffGainX_G_u2p14[2]	19169



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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_DiffGainX_G_u2p14[3]	26214		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	13120		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	13440		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	13760		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	14080		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	14400		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	30310		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29082		
t_TrqLOA_X_Kph_u10p6[0]	4160		
t_TrqLOA_X_Kph_u10p6[1]	4224		
t_TrqLOA_X_Kph_u10p6[2]	4288		
t_TrqLOA_X_Kph_u10p6[3]	4352		
t_TrqLOA_X_Kph_u10p6[4]	4416		
t_TrqLOA_X_Kph_u10p6[5]	4480		
t_TrqLOA_X_Kph_u10p6[6]	4544		
t_TrqLOA_X_Kph_u10p6[7]	4608		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	1.21517611		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1463.47729		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	221.003494		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	224.927643		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.849539578	0.849539578	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.498035997	0.498035997 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.0216306448	0.0216306448 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.12 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.403138161	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0175000001	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.27528882	
TrqLOA_TloaCmd_MtrNm_M_f32	-3.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.692390919	

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Name	Input Value
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.58443165
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	927.774658
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-94.6221161
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	63.6255188
k_TrqLOA_FallingRampRate_UlspS_f32	-313.735229
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.31031489
k_TrqLOA_LimOutput_MtrNm_f32	4.22883606
k_TrqLOA_MaxScaleFactor_Uls_f32	0.838027477
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.91779709
k_TrqLOA_RisingRampRate_UlspS_f32	378.169434
k_TrqLOA_SteerRatio_Uls_f32	21.556879
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	16.2824841
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	17695
t_TrqLOA_DiffGainX_G_u2p14[1]	18678
t_TrqLOA_DiffGainX_G_u2p14[2]	21299
t_TrqLOA_DiffGainX_G_u2p14[3]	29491
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986

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Name	Input Value		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901		
t_TrqLOA_X_Kph_u10p6[0]	4672		
t_TrqLOA_X_Kph_u10p6[1]	4736		
t_TrqLOA_X_Kph_u10p6[2]	4800		
t_TrqLOA_X_Kph_u10p6[3]	4864		
t_TrqLOA_X_Kph_u10p6[4]	4928		
t_TrqLOA_X_Kph_u10p6[5]	4992		
t_TrqLOA_X_Kph_u10p6[6]	5056		
t_TrqLOA_X_Kph_u10p6[7]	5120		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.16734862		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1395.95569		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	388.426361		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	394.863647		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.529998779	0.529998779	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.561278999	0.561278999 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.0826489776	0.0826489702 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.0826489776	0.0826489702 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.0639479756	0.0639479533 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.0826489776	0.0826489702 ± 0.01	✔

Test Step 2.13 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str_SV_Uls_f32	0.600000024			
TrqLOA_LatAccelSV_g_M_Str_K_Uls_f32	0.0179999992			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-6.56088591			
TrqLOA_TloaCmd_MtrNm_M_f32	-3			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.649484217			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.52225447			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	855.912842			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-13.8163471			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	83.0125198			
k_TrqLOA_FallingRampRate_UlspS_f32	-80.8626328			
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.45001364			
k_TrqLOA_LimOutput_MtrNm_f32	1.74174845			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.49027431			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.08836651			
k_TrqLOA_RisingRampRate_UlspS_f32	368.683472			
k_TrqLOA_SteerRatio_Uls_f32	23.0188789			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	9.51464558			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	328
t_TrqLOA_DiffGainX_G_u2p14[1]	1229
t_TrqLOA_DiffGainX_G_u2p14[2]	2458
t_TrqLOA_DiffGainX_G_u2p14[3]	3113
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	12288
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	25805
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	27443
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	32768
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	30720
t_TrqLOA_X_Kph_u10p6[0]	5184
t_TrqLOA_X_Kph_u10p6[1]	5248
t_TrqLOA_X_Kph_u10p6[2]	5312
t_TrqLOA_X_Kph_u10p6[3]	5376
t_TrqLOA_X_Kph_u10p6[4]	5440
t_TrqLOA_X_Kph_u10p6[5]	5504
t_TrqLOA_X_Kph_u10p6[6]	5568
t_TrqLOA_X_Kph_u10p6[7]	5632
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.090705514
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.422303379
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1

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TrqLOA\_Per1

Name	Input Value	Expected Value	Result
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1569.99622		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	700.895996		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	89.0243835		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.972367287	0.972367287	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.612959445	0.612959445 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.0640946478	0.0640946329 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0.0640946478	0.0640946329 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.0878827572	0.0878827348 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.0640946478	0.0640946329 ± 0.01	✓

## Test Step 2.14 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.6499999976
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0185000002
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	7.2180357
TrqLOA_TloaCmd_MtrNm_M_f32	-2.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.340875268
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.84898376
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	846.358887
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-77.936348
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	72.3617096
k_TrqLOA_FallingRampRate_UlspS_f32	-861.899231
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.44272804
k_TrqLOA_LimOutput_MtrNm_f32	1.15138853
k_TrqLOA_MaxScaleFactor_Uls_f32	0.901087523
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.09603024
k_TrqLOA_RisingRampRate_UlspS_f32	583.057068
k_TrqLOA_SteerRatio_Uls_f32	28.1238441
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	5.62831402
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_DiffGainX_G_u2p14[2]	4751		
t_TrqLOA_DiffGainX_G_u2p14[3]	4915		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	28262		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	33997		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	31539		
t_TrqLOA_X_Kph_u10p6[0]	5696		
t_TrqLOA_X_Kph_u10p6[1]	5760		
t_TrqLOA_X_Kph_u10p6[2]	5824		
t_TrqLOA_X_Kph_u10p6[3]	5888		
t_TrqLOA_X_Kph_u10p6[4]	5952		
t_TrqLOA_X_Kph_u10p6[5]	6016		
t_TrqLOA_X_Kph_u10p6[6]	6080		
t_TrqLOA_X_Kph_u10p6[7]	6144		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.828065395		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-10		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1079.4718		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-804.789978		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	362.635925		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.844127297	0.844127297	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.601803422	0.601803422 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.24986959	-3.24986959 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-1.15138853	-1.15138853 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-1.15138853	-1.15138853 ± 0.01	✔

Test Step 2.15 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.652236581			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0189999994			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	7.55757761			
TrqLOA_TloaCmd_MtrNm_M_f32	-2			

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Name	Input Value
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.049941957
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.01070285
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	236.626678
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-48.0307465
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	31.2210598
k_TrqLOA_FallingRampRate_UlspS_f32	-586.345642
k_TrqLOA_LatAccConversionFactor_Uls_f32	6.62290382
k_TrqLOA_LimOutput_MtrNm_f32	4.41483879
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.264312625
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.95242167
k_TrqLOA_RisingRampRate_UlspS_f32	570.876648
k_TrqLOA_SteerRatio_Uls_f32	3.08604932
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0252596289
k_TrqLOA_Wheelbase_M_f32	1.45060885
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	5079
t_TrqLOA_DiffGainX_G_u2p14[1]	6062
t_TrqLOA_DiffGainX_G_u2p14[2]	6390
t_TrqLOA_DiffGainX_G_u2p14[3]	6554
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	19520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	19840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	20160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	20480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	20800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13926
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	22938
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20890



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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	35226		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	32358		
t_TrqLOA_X_Kph_u10p6[0]	6208		
t_TrqLOA_X_Kph_u10p6[1]	6272		
t_TrqLOA_X_Kph_u10p6[2]	6336		
t_TrqLOA_X_Kph_u10p6[3]	6400		
t_TrqLOA_X_Kph_u10p6[4]	6464		
t_TrqLOA_X_Kph_u10p6[5]	6528		
t_TrqLOA_X_Kph_u10p6[6]	6592		
t_TrqLOA_X_Kph_u10p6[7]	6656		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	876.956238		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-210.713165		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	33.52005		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.556175113	0.556175113	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	-0.021463953	-0.0214639828 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.0189343765	-0.0189344287 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.0189343765	-0.0189344287 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.0189343765	-0.0189344287 ± 0.01	✔

Test Step 2.16 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.776284695			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0195000004			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.24753368			
TrqLOA_TloaCmd_MtrNm_M_f32	-1.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.569226027			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	0.412324548			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	915.442993			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-60.6968346			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	64.6097565			
k_TrqLOA_FallingRampRate_UlspS_f32	-277.900177			
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.526169777			
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.879272461			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.4326005			
k_TrqLOA_RisingRampRate_UlspS_f32	153.534256			
k_TrqLOA_SteerRatio_Uls_f32	51.1181374			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	19.2125759			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763			



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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	6881
t_TrqLOA_DiffGainX_G_u2p14[1]	7864
t_TrqLOA_DiffGainX_G_u2p14[2]	8520
t_TrqLOA_DiffGainX_G_u2p14[3]	9830
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	21120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	21440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	21760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	22080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	22400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528
t_TrqLOA_X_Kph_u10p6[0]	6720
t_TrqLOA_X_Kph_u10p6[1]	6784
t_TrqLOA_X_Kph_u10p6[2]	6848
t_TrqLOA_X_Kph_u10p6[3]	6912
t_TrqLOA_X_Kph_u10p6[4]	6976
t_TrqLOA_X_Kph_u10p6[5]	7040
t_TrqLOA_X_Kph_u10p6[6]	7104
t_TrqLOA_X_Kph_u10p6[7]	7168
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.5

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TrqLOA\_Per1

Name	Input Value		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMgtEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1269.96204		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	646.436951		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	281.711426		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.654891014	0.654891014	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.162403747	0.162403747 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.00152588892	0.00152595004 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0.00152588892	0.00152595004 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.876294553	0.876294553 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.00152588892	0.00152595004 ± 0.01	✓

Test Step 2.17 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.982143283		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0199999996		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-6.9605794		
TrqLOA_TloaCmd_MtrNm_M_f32	-1		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.19092691		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.60962009		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	515.822083		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-32.9132347		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	51.4809647		
k_TrqLOA_FallingRampRate_UlspS_f32	-416.867584		
k_TrqLOA_LatAccConversionFactor_Uls_f32	2.92874336		
k_TrqLOA_LimOutput_MtrNm_f32	2.28109956		
k_TrqLOA_MaxScaleFactor_Uls_f32	1		
k_TrqLOA_MinScaleFactor_Uls_f32	1		
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.981505513		
k_TrqLOA_RisingRampRate_UlspS_f32	452.399811		
k_TrqLOA_SteerRatio_Uls_f32	57.01577		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.217999741		
k_TrqLOA_Wheelbase_M_f32	15.5838728		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214		
t_TrqLOA_DiffGainX_G_u2p14[0]	8684		

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_DiffGainX_G_u2p14[1]	9667		
t_TrqLOA_DiffGainX_G_u2p14[2]	10650		
t_TrqLOA_DiffGainX_G_u2p14[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	22720		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	23040		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	23360		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	23680		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	24000		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347		
t_TrqLOA_X_Kph_u10p6[0]	7232		
t_TrqLOA_X_Kph_u10p6[1]	7296		
t_TrqLOA_X_Kph_u10p6[2]	7360		
t_TrqLOA_X_Kph_u10p6[3]	7424		
t_TrqLOA_X_Kph_u10p6[4]	7488		
t_TrqLOA_X_Kph_u10p6[5]	7552		
t_TrqLOA_X_Kph_u10p6[6]	7616		
t_TrqLOA_X_Kph_u10p6[7]	7680		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.747072339		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	755.382446		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-463.46756		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	58.6060486		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.916316807	0.916316807	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.192429781	0.192429766 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.286127269	-0.28612721 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0	0 ± 0.01	✔

Test Step 2.18 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.505558729	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0205000006	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	4.91599369	

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Name	Input Value
TrqLOA_TloaCmd_MtrNm_M_f32	-0.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.51502144
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.62375116
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	245.138199
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-41.4325523
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	75.942955
k_TrqLOA_FallingRampRate_UlspS_f32	-920.135132
k_TrqLOA_LatAccConversionFactor_Uls_f32	4.55265713
k_TrqLOA_LimOutput_MtrNm_f32	5.21092319
k_TrqLOA_MaxScaleFactor_Uls_f32	0.378737688
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019
k_TrqLOA_RisingRampRate_UlspS_f32	350.725677
k_TrqLOA_SteerRatio_Uls_f32	83.0911789
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	9.46714211
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	10486
t_TrqLOA_DiffGainX_G_u2p14[1]	11469
t_TrqLOA_DiffGainX_G_u2p14[2]	12780
t_TrqLOA_DiffGainX_G_u2p14[3]	16384
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	1280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	1600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974

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Name	Input Value		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166		
t_TrqLOA_X_Kph_u10p6[0]	7744		
t_TrqLOA_X_Kph_u10p6[1]	7808		
t_TrqLOA_X_Kph_u10p6[2]	7872		
t_TrqLOA_X_Kph_u10p6[3]	7936		
t_TrqLOA_X_Kph_u10p6[4]	8000		
t_TrqLOA_X_Kph_u10p6[5]	8064		
t_TrqLOA_X_Kph_u10p6[6]	8128		
t_TrqLOA_X_Kph_u10p6[7]	8192		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-6.5		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-326.482697		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	357.54599		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	155.51593		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.42269361	0.42269361	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.250011116	0.250011116 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.813570082	-0.813570082 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	

Test Step 2.19 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0209999997			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-7.58292675			
TrqLOA_TloaCmd_MtrNm_M_f32	0			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.32580423			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	148.017395			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-69.9315414			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	15.7676144			
k_TrqLOA_FallingRampRate_UlspS_f32	-966.635803			
k_TrqLOA_LatAccConversionFactor_Uls_f32	2.4797616			
k_TrqLOA_LimOutput_MtrNm_f32	7.05347157			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.598368287			
k_TrqLOA_MinScaleFactor_Uls_f32	0.892256141			
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.2165494			
k_TrqLOA_RisingRampRate_UlspS_f32	460.667969			
k_TrqLOA_SteerRatio_Uls_f32	92.3100281			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.027917102			
k_TrqLOA_Wheelbase_M_f32	10.9195976			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	12288
t_TrqLOA_DiffGainX_G_u2p14[1]	13271
t_TrqLOA_DiffGainX_G_u2p14[2]	14909
t_TrqLOA_DiffGainX_G_u2p14[3]	19661
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	1920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	2240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	2560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	2880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	3200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986
t_TrqLOA_X_Kph_u10p6[0]	8256
t_TrqLOA_X_Kph_u10p6[1]	8320
t_TrqLOA_X_Kph_u10p6[2]	8384
t_TrqLOA_X_Kph_u10p6[3]	8448
t_TrqLOA_X_Kph_u10p6[4]	8512
t_TrqLOA_X_Kph_u10p6[5]	8576
t_TrqLOA_X_Kph_u10p6[6]	8640
t_TrqLOA_X_Kph_u10p6[7]	8704
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1

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TrqLOA\_Per1

Name	Input Value		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.951581		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	689.795654		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-207.207138		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	142.005035		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.860136926	0.860136926	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.285196543	0.285196543 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.22293061	-0.222930625 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	-0.22293061	-0.222930625 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.892256141	0.892256141 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.22293061	-0.222930625 ± 0.01	✓

Test Step 2.20 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.760919571		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.349999994		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0215000007		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	5.85893965		
TrqLOA_TloaCmd_MtrNm_M_f32	0.5		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.0278873444		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.29880762		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	101.334595		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-30.5762386		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	49.3492393		
k_TrqLOA_FallingRampRate_UlspS_f32	-224.786346		
k_TrqLOA_LatAccConversionFactor_Uls_f32	10		
k_TrqLOA_LimOutput_MtrNm_f32	8.21726894		
k_TrqLOA_MaxScaleFactor_Uls_f32	0.136131763		
k_TrqLOA_MinScaleFactor_Uls_f32	0.551099062		
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019		
k_TrqLOA_RisingRampRate_UlspS_f32	153.018997		
k_TrqLOA_SteerRatio_Uls_f32	46.068264		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	14.9741869		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107		



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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_DiffGainX_G_u2p14[0]	14090		
t_TrqLOA_DiffGainX_G_u2p14[1]	15073		
t_TrqLOA_DiffGainX_G_u2p14[2]	17039		
t_TrqLOA_DiffGainX_G_u2p14[3]	22938		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	3520		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	3840		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	4160		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	4480		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	4800		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805		
t_TrqLOA_X_Kph_u10p6[0]	8768		
t_TrqLOA_X_Kph_u10p6[1]	8832		
t_TrqLOA_X_Kph_u10p6[2]	8896		
t_TrqLOA_X_Kph_u10p6[3]	8960		
t_TrqLOA_X_Kph_u10p6[4]	9024		
t_TrqLOA_X_Kph_u10p6[5]	9088		
t_TrqLOA_X_Kph_u10p6[6]	9152		
t_TrqLOA_X_Kph_u10p6[7]	9216		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.112473726		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	5.86611271		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1922.651		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	669.627136		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	86.8814697		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.699767113	0.699767113	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.353336662	0.353336662 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.278150678	0.278150648 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.21 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.458414435	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0219999999	



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Name	Input Value
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.31447458
TrqLOA_TloaCmd_MtrNm_M_f32	1
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.68352222
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.20481014
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	442.206177
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-92.2796631
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	4.37505531
k_TrqLOA_FallingRampRate_UlspS_f32	-65.6893005
k_TrqLOA_LatAccConversionFactor_Uls_f32	4.77508354
k_TrqLOA_LimOutput_MtrNm_f32	6.08904886
k_TrqLOA_MaxScaleFactor_Uls_f32	0.307875514
k_TrqLOA_MinScaleFactor_Uls_f32	0.92308104
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.39156401
k_TrqLOA_RisingRampRate_UlspS_f32	696.61969
k_TrqLOA_SteerRatio_Uls_f32	9.29917812
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	1.91829896
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	15892
t_TrqLOA_DiffGainX_G_u2p14[1]	16876
t_TrqLOA_DiffGainX_G_u2p14[2]	19169
t_TrqLOA_DiffGainX_G_u2p14[3]	26214
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	5120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	5440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	5760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	6080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	6400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624		
t_TrqLOA_X_Kph_u10p6[0]	9280		
t_TrqLOA_X_Kph_u10p6[1]	9344		
t_TrqLOA_X_Kph_u10p6[2]	9408		
t_TrqLOA_X_Kph_u10p6[3]	9472		
t_TrqLOA_X_Kph_u10p6[4]	9536		
t_TrqLOA_X_Kph_u10p6[5]	9600		
t_TrqLOA_X_Kph_u10p6[6]	9664		
t_TrqLOA_X_Kph_u10p6[7]	9728		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	4.09389257		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-645.788513		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-133.912827		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	379.220917		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.467164546	0.467164546	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.369231433	0.369231433 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.290282726	-0.290282935 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0	0 ± 0.01	✔

Test Step 2.22 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.286217928			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.449999988			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0225000009			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-4.61328793			
TrqLOA_TloaCmd_MtrNm_M_f32	1.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.9354285			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	6.82426548			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	256.059387			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-32.0693474			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	16.1730366			
k_TrqLOA_FallingRampRate_UlspS_f32	-251.979279			
k_TrqLOA_LatAccConversionFactor_Uls_f32	4.34920788			
k_TrqLOA_LimOutput_MtrNm_f32	2.87169433			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.636602879			
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.84942722			
k_TrqLOA_RisingRampRate_UlspS_f32	141.2939			
k_TrqLOA_SteerRatio_Uls_f32	39.839592			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.195474774			
k_TrqLOA_Wheelbase_M_f32	11.7310743			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299			

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	17695
t_TrqLOA_DiffGainX_G_u2p14[1]	18678
t_TrqLOA_DiffGainX_G_u2p14[2]	21299
t_TrqLOA_DiffGainX_G_u2p14[3]	29491
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	6720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	7040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	7360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	7680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	8000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443
t_TrqLOA_X_Kph_u10p6[0]	9792
t_TrqLOA_X_Kph_u10p6[1]	9856
t_TrqLOA_X_Kph_u10p6[2]	9920
t_TrqLOA_X_Kph_u10p6[3]	9984
t_TrqLOA_X_Kph_u10p6[4]	10048
t_TrqLOA_X_Kph_u10p6[5]	10112
t_TrqLOA_X_Kph_u10p6[6]	10176
t_TrqLOA_X_Kph_u10p6[7]	10240
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32

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TrqLOA\_Per1

Name	Input Value	Expected Value	Result
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.728037357		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.18392849		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgInEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-2000		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	672.756042		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	113.296326		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.318563998	0.318563998	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.461153269	0.461153269 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.65284061	-1.65284073 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

## Test Step 2.23 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.416943192
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.023
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.22781754
TrqLOA_TloaCmd_MtrNm_M_f32	2
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.414223254
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.51600885
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	995.283386
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-71.562912
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	15.5903111
k_TrqLOA_FallingRampRate_UlspS_f32	-878.925293
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.70839566
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019
k_TrqLOA_MaxScaleFactor_Uls_f32	0.113850713
k_TrqLOA_MinScaleFactor_Uls_f32	0.382634044
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.203266919
k_TrqLOA_RisingRampRate_UlspS_f32	770.529968
k_TrqLOA_SteerRatio_Uls_f32	6.2688899
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0393150002
k_TrqLOA_Wheelbase_M_f32	2.45116496
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226		
t_TrqLOA_DiffGainX_G_u2p14[0]	328		
t_TrqLOA_DiffGainX_G_u2p14[1]	1229		
t_TrqLOA_DiffGainX_G_u2p14[2]	2458		
t_TrqLOA_DiffGainX_G_u2p14[3]	3113		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	8320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	8640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	8960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	9280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	9600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262		
t_TrqLOA_X_Kph_u10p6[0]	10304		
t_TrqLOA_X_Kph_u10p6[1]	10368		
t_TrqLOA_X_Kph_u10p6[2]	10432		
t_TrqLOA_X_Kph_u10p6[3]	10496		
t_TrqLOA_X_Kph_u10p6[4]	10560		
t_TrqLOA_X_Kph_u10p6[5]	10624		
t_TrqLOA_X_Kph_u10p6[6]	10688		
t_TrqLOA_X_Kph_u10p6[7]	10752		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.53119206		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	2000		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-562.210022		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	197.788849		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.27381736	0.27381736	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	-0.272943676	-0.272943676 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.433753699	-0.433753729 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.433753699	-0.433753729 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.382634044	0.382634044 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.433753699	-0.433753729 ± 0.01	✔

## Test Step 2.24 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.0573601723
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012

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Name	Input Value
TrqLOA_LatAccelSV_g_M_Str_K_Uls_f32	0.02349999992
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.208004713
TrqLOA_TloaCmd_MtrNm_M_f32	2.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.770968676
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.1029501
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	174.697998
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-79.8068924
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	7.59233046
k_TrqLOA_FallingRampRate_UlspS_f32	-508.201782
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.90489888
k_TrqLOA_LimOutput_MtrNm_f32	1.23735428
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.359750509
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.04695988
k_TrqLOA_RisingRampRate_UlspS_f32	428.983093
k_TrqLOA_SteerRatio_Uls_f32	76.5793839
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	9.53439236
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096
t_TrqLOA_DiffGainX_G_u2p14[2]	4751
t_TrqLOA_DiffGainX_G_u2p14[3]	4915
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	10650

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Name	Input Value		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	30310		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29082		
t_TrqLOA_X_Kph_u10p6[0]	10816		
t_TrqLOA_X_Kph_u10p6[1]	10880		
t_TrqLOA_X_Kph_u10p6[2]	10944		
t_TrqLOA_X_Kph_u10p6[3]	11008		
t_TrqLOA_X_Kph_u10p6[4]	11072		
t_TrqLOA_X_Kph_u10p6[5]	11136		
t_TrqLOA_X_Kph_u10p6[6]	11200		
t_TrqLOA_X_Kph_u10p6[7]	11264		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.82478905		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1326.5		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	463.004272		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	260.155029		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.0725448355	0.0725448355	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.546331227	0.546331227 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.359750509	0.359750509 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.25 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.413330913			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.600000024			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0240000002			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.744433224			
TrqLOA_TloaCmd_MtrNm_M_f32	3			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.921130359			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.41811442			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	634.881836			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-59.9634285			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	79.7622375			
k_TrqLOA_FallingRampRate_UlspS_f32	-906.341125			
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.63694096			
k_TrqLOA_LimOutput_MtrNm_f32	4.69407511			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.73774338			
k_TrqLOA_RisingRampRate_UlspS_f32	506.32724			
k_TrqLOA_SterRatio_Uls_f32	25.6027412			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	13.3979607			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124			



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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	5079
t_TrqLOA_DiffGainX_G_u2p14[1]	6062
t_TrqLOA_DiffGainX_G_u2p14[2]	6390
t_TrqLOA_DiffGainX_G_u2p14[3]	6554
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	11520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	11840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	12160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	12480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	12800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901
t_TrqLOA_X_Kph_u10p6[0]	11328
t_TrqLOA_X_Kph_u10p6[1]	11392
t_TrqLOA_X_Kph_u10p6[2]	11456
t_TrqLOA_X_Kph_u10p6[3]	11520
t_TrqLOA_X_Kph_u10p6[4]	11584
t_TrqLOA_X_Kph_u10p6[5]	11648
t_TrqLOA_X_Kph_u10p6[6]	11712
t_TrqLOA_X_Kph_u10p6[7]	11776
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc



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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.107009053		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.62466621		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	0		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	799.100525		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	501.525238		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.399993896	0.399993896	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.636516392	0.636516392 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.75200272	1.75200284 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	1.75200272	1.75200284 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	1.75200272	1.75200284 ± 0.01	✓

## Test Step 2.26 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str_SV_Uls_f32	0.649999976
TrqLOA_LatAccelSV_g_M_Str_K_Uls_f32	0.0244999994
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-4.05832148
TrqLOA_TloaCmd_MtrNm_M_f32	3.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.49695146
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.05715561
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	691.984741
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-60.6408615
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	65.9121246
k_TrqLOA_FallingRampRate_UlspS_f32	-415.079132
k_TrqLOA_LatAccConversionFactor_Uls_f32	10
k_TrqLOA_LimOutput_MtrNm_f32	7.91076517
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.98730361
k_TrqLOA_RisingRampRate_UlspS_f32	50.6216545
k_TrqLOA_SteerRatio_Uls_f32	92.4181595
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	17.4362545
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661		
t_TrqLOA_DiffGainX_G_u2p14[0]	6881		
t_TrqLOA_DiffGainX_G_u2p14[1]	7864		
t_TrqLOA_DiffGainX_G_u2p14[2]	8520		
t_TrqLOA_DiffGainX_G_u2p14[3]	9830		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	13120		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	13440		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	13760		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	14080		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	14400		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	12288		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	32768		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	30720		
t_TrqLOA_X_Kph_u10p6[0]	11840		
t_TrqLOA_X_Kph_u10p6[1]	11904		
t_TrqLOA_X_Kph_u10p6[2]	11968		
t_TrqLOA_X_Kph_u10p6[3]	12032		
t_TrqLOA_X_Kph_u10p6[4]	12096		
t_TrqLOA_X_Kph_u10p6[5]	12160		
t_TrqLOA_X_Kph_u10p6[6]	12224		
t_TrqLOA_X_Kph_u10p6[7]	12288		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.117193341		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-367.5		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-564.468384		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	508.008362		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.878718257	0.878718257	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.623975098	0.623975098 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-2.19068646	-2.19068694 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-2.19068646	-2.19068694 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-2.19068646	-2.19068694 ± 0.01	✔

## Test Step 2.27 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.70748055

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Name	Input Value
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0250000004
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	4.81785059
TrqLOA_TloaCmd_MtrNm_M_f32	4
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.94893074
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	899.900085
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-64.7299652
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	73.9211426
k_TrqLOA_FallingRampRate_UlspS_f32	-92.2094574
k_TrqLOA_LatAccConversionFactor_Uls_f32	6.6024642
k_TrqLOA_LimOutput_MtrNm_f32	3.43763661
k_TrqLOA_MaxScaleFactor_Uls_f32	0.541755319
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.71038914
k_TrqLOA_RisingRampRate_UlspS_f32	274.445343
k_TrqLOA_SteerRatio_Uls_f32	69.0654144
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	13.5281286
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	8684
t_TrqLOA_DiffGainX_G_u2p14[1]	9667
t_TrqLOA_DiffGainX_G_u2p14[2]	10650
t_TrqLOA_DiffGainX_G_u2p14[3]	13107
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203

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Name	Input Value		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	28262		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	33997		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	31539		
t_TrqLOA_X_Kph_u10p6[0]	12352		
t_TrqLOA_X_Kph_u10p6[1]	12416		
t_TrqLOA_X_Kph_u10p6[2]	12480		
t_TrqLOA_X_Kph_u10p6[3]	12544		
t_TrqLOA_X_Kph_u10p6[4]	12608		
t_TrqLOA_X_Kph_u10p6[5]	12672		
t_TrqLOA_X_Kph_u10p6[6]	12736		
t_TrqLOA_X_Kph_u10p6[7]	12800		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.937400222		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.64863396		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	798.184937		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	965.266174		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	440.77774		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.799987793	0.799987793	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.121058829	0.121058829 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.81558108	1.81558108 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.28 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.891314507			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0254999995			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.92311072			
TrqLOA_TloaCmd_MtrNm_M_f32	4.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	0.15940845			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	76.9195099			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-40.4109612			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	43.2055435			
k_TrqLOA_FallingRampRate_UlspS_f32	-507.348114			
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.904162347			
k_TrqLOA_LimOutput_MtrNm_f32	0.713699758			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.510908365			
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.01333714			
k_TrqLOA_RisingRampRate_UlspS_f32	467.790863			
k_TrqLOA_SteerRatio_Uls_f32	51.5931358			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	19.8509865			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655			

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	10486
t_TrqLOA_DiffGainX_G_u2p14[1]	11469
t_TrqLOA_DiffGainX_G_u2p14[2]	12780
t_TrqLOA_DiffGainX_G_u2p14[3]	16384
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13926
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	22938
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	27443
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	29082
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	35226
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	32358
t_TrqLOA_X_Kph_u10p6[0]	12864
t_TrqLOA_X_Kph_u10p6[1]	12928
t_TrqLOA_X_Kph_u10p6[2]	12992
t_TrqLOA_X_Kph_u10p6[3]	13056
t_TrqLOA_X_Kph_u10p6[4]	13120
t_TrqLOA_X_Kph_u10p6[5]	13184
t_TrqLOA_X_Kph_u10p6[6]	13248
t_TrqLOA_X_Kph_u10p6[7]	13312
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.596330881		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.97075582		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-753.304749		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	932.416565		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	497.813354		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.810492575	0.810492575	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.17708917	0.17708917 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.84024596	2.84024572 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0.713699758	0.713699758 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.98530376	0.98530376 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.713699758	0.713699758 ± 0.01	✓

## Test Step 2.29 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0260000005
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.99349976
TrqLOA_TloaCmd_MtrNm_M_f32	5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.206497729
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	8.93306541
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	328.252716
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-29.5855579
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	73.3554611
k_TrqLOA_FallingRampRate_UlspS_f32	-734.655823
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.01974106
k_TrqLOA_LimOutput_MtrNm_f32	0.352978289
k_TrqLOA_MaxScaleFactor_Uls_f32	0.534686923
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.82537937
k_TrqLOA_RisingRampRate_UlspS_f32	984.492065
k_TrqLOA_SteerRatio_Uls_f32	35.3515091
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	20
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830		
t_TrqLOA_DiffGainX_G_u2p14[0]	12288		
t_TrqLOA_DiffGainX_G_u2p14[1]	13271		
t_TrqLOA_DiffGainX_G_u2p14[2]	14909		
t_TrqLOA_DiffGainX_G_u2p14[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528		
t_TrqLOA_X_Kph_u10p6[0]	13376		
t_TrqLOA_X_Kph_u10p6[1]	13440		
t_TrqLOA_X_Kph_u10p6[2]	13504		
t_TrqLOA_X_Kph_u10p6[3]	13568		
t_TrqLOA_X_Kph_u10p6[4]	13632		
t_TrqLOA_X_Kph_u10p6[5]	13696		
t_TrqLOA_X_Kph_u10p6[6]	13760		
t_TrqLOA_X_Kph_u10p6[7]	13824		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-7.3074398		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1365.13013		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	743.590393		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	88.6752625		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.94082886	0.94082886	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.211448729	0.211448729 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0		✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

## Test Step 2.30 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA



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TrqLOA\_Per1

Name	Input Value
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0264999997
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.13867566
TrqLOA_TloaCmd_MtrNm_M_f32	5.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.833204865
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	6.20932293
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	659.015991
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-67.2214966
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	11.0838623
k_TrqLOA_FallingRampRate_UlspS_f32	-201.624084
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.47973728
k_TrqLOA_LimOutput_MtrNm_f32	1.9202379
k_TrqLOA_MaxScaleFactor_Uls_f32	0.0276153088
k_TrqLOA_MinScaleFactor_Uls_f32	0.237777233
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.01409388
k_TrqLOA_RisingRampRate_UlspS_f32	85.6128311
k_TrqLOA_SteerRatio_Uls_f32	83.8017349
k_TrqLOA_UndersteerGrad_RadpG_f32	0.239458829
k_TrqLOA_Wheelbase_M_f32	7.51533031
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	14090
t_TrqLOA_DiffGainX_G_u2p14[1]	15073
t_TrqLOA_DiffGainX_G_u2p14[2]	17039
t_TrqLOA_DiffGainX_G_u2p14[3]	22938
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	19520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	19840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	20160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	20480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	20800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621



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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347		
t_TrqLOA_X_Kph_u10p6[0]	13888		
t_TrqLOA_X_Kph_u10p6[1]	13952		
t_TrqLOA_X_Kph_u10p6[2]	14016		
t_TrqLOA_X_Kph_u10p6[3]	14080		
t_TrqLOA_X_Kph_u10p6[4]	14144		
t_TrqLOA_X_Kph_u10p6[5]	14208		
t_TrqLOA_X_Kph_u10p6[6]	14272		
t_TrqLOA_X_Kph_u10p6[7]	14336		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.15013218		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1633.13428		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	46.1315651		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	0		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.865557015	0.865557015	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.243375003	0.243375003 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.429956675	0.429956704 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.31 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0270000007	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.90837574	
TrqLOA_TloaCmd_MtrNm_M_f32	6	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.990798	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	6.15136528	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	103.625046	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-71.3969955	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	81.8016815	
k_TrqLOA_FallingRampRate_UlspS_f32	-665.857605	
k_TrqLOA_LatAccConversionFactor_Uls_f32	4.77330208	
k_TrqLOA_LimOutput_MtrNm_f32	2.50067353	
k_TrqLOA_MaxScaleFactor_Uls_f32	0.782106519	
k_TrqLOA_MinScaleFactor_Uls_f32	1	
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019	
k_TrqLOA_RisingRampRate_UlspS_f32	15.2650385	
k_TrqLOA_SteerRatio_Uls_f32	58.025032	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	10.3837967	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661	

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	15892
t_TrqLOA_DiffGainX_G_u2p14[1]	16876
t_TrqLOA_DiffGainX_G_u2p14[2]	19169
t_TrqLOA_DiffGainX_G_u2p14[3]	26214
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	21120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	21440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	21760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	22080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	22400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166
t_TrqLOA_X_Kph_u10p6[0]	14400
t_TrqLOA_X_Kph_u10p6[1]	14464
t_TrqLOA_X_Kph_u10p6[2]	14528
t_TrqLOA_X_Kph_u10p6[3]	14592
t_TrqLOA_X_Kph_u10p6[4]	14656
t_TrqLOA_X_Kph_u10p6[5]	14720
t_TrqLOA_X_Kph_u10p6[6]	14784
t_TrqLOA_X_Kph_u10p6[7]	14848
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.527585864		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-9.15404129		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1959.27441		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	302.507568		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	511		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.857205987	0.857205987	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.301532269	0.301532269 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.9602679	-1.9602679 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

## Test Step 2.32 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.0451312065
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.349999994
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0274999999
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.35314679
TrqLOA_TloaCmd_MtrNm_M_f32	6.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	8.32529926
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	396.538757
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-16.9330521
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	9.62668037
k_TrqLOA_FallingRampRate_UlspS_f32	-738.304871
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.49069738
k_TrqLOA_LimOutput_MtrNm_f32	3.90022373
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.436335325
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019
k_TrqLOA_RisingRampRate_UlspS_f32	957.202148
k_TrqLOA_SteerRatio_Uls_f32	20.383215
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	10.1302967
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214		
t_TrqLOA_DiffGainX_G_u2p14[0]	17695		
t_TrqLOA_DiffGainX_G_u2p14[1]	18678		
t_TrqLOA_DiffGainX_G_u2p14[2]	21299		
t_TrqLOA_DiffGainX_G_u2p14[3]	29491		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	22720		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	23040		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	23360		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	23680		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	24000		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986		
t_TrqLOA_X_Kph_u10p6[0]	14912		
t_TrqLOA_X_Kph_u10p6[1]	14976		
t_TrqLOA_X_Kph_u10p6[2]	15040		
t_TrqLOA_X_Kph_u10p6[3]	15104		
t_TrqLOA_X_Kph_u10p6[4]	15168		
t_TrqLOA_X_Kph_u10p6[5]	15232		
t_TrqLOA_X_Kph_u10p6[6]	15296		
t_TrqLOA_X_Kph_u10p6[7]	15360		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.558684111		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	6.74035311		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	725.383057		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-86.1812897		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	115		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.0643845648	0.0643845648	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.334533066	0.334523976 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.523390174	0.523390293 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.33 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0280000009	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.800000019	
TrqLOA_TloaCmd_MtrNm_M_f32	7	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	8.86581421	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	822.262451	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-85.1996994	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	27.1538162	
k_TrqLOA_FallingRampRate_UlspS_f32	-942.832275	
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.100000001	
k_TrqLOA_LimOutput_MtrNm_f32	1.91650236	
k_TrqLOA_MaxScaleFactor_Uls_f32	0.808199286	
k_TrqLOA_MinScaleFactor_Uls_f32	0.928993344	
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.1365633	
k_TrqLOA_RisingRampRate_UlspS_f32	630.897095	
k_TrqLOA_SteerRatio_Uls_f32	46.9744377	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	10.178853	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226	
t_TrqLOA_DiffGainX_G_u2p14[0]	328	
t_TrqLOA_DiffGainX_G_u2p14[1]	1229	
t_TrqLOA_DiffGainX_G_u2p14[2]	2458	
t_TrqLOA_DiffGainX_G_u2p14[3]	3113	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	320	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	640	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	960	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	1280	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	1600	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779	

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805		
t_TrqLOA_X_Kph_u10p6[0]	15424		
t_TrqLOA_X_Kph_u10p6[1]	15488		
t_TrqLOA_X_Kph_u10p6[2]	15552		
t_TrqLOA_X_Kph_u10p6[3]	15616		
t_TrqLOA_X_Kph_u10p6[4]	15680		
t_TrqLOA_X_Kph_u10p6[5]	15744		
t_TrqLOA_X_Kph_u10p6[6]	15808		
t_TrqLOA_X_Kph_u10p6[7]	15872		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-2.45094824		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1694.61267		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-686.74469		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	144.32724		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.829600573	0.829600573	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.365909666	0.365909666 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.97111702	-0.97111702 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.97111702	-0.97111702 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.928993344	0.928993344 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.97111702	-0.97111702 ± 0.01	✔

Test Step 2.34 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.449999988			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0285			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	6.91065264			
TrqLOA_TloaCmd_MtrNm_M_f32	7.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.5386678			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	1.86981726			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	73.6345139			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-20.5877991			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	9.75349903			
k_TrqLOA_FallingRampRate_UlspS_f32	-627.704895			
k_TrqLOA_LatAccConversionFactor_Uls_f32	10			
k_TrqLOA_LimOutput_MtrNm_f32	5.51037836			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.54602098			
k_TrqLOA_RisingRampRate_UlspS_f32	54.7308502			
k_TrqLOA_SteerRatio_Uls_f32	19.953455			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	0.637766242			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096
t_TrqLOA_DiffGainX_G_u2p14[2]	4751
t_TrqLOA_DiffGainX_G_u2p14[3]	4915
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	1920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	2240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	2560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	2880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	3200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624
t_TrqLOA_X_Kph_u10p6[0]	15936
t_TrqLOA_X_Kph_u10p6[1]	16000
t_TrqLOA_X_Kph_u10p6[2]	16064
t_TrqLOA_X_Kph_u10p6[3]	16128
t_TrqLOA_X_Kph_u10p6[4]	16192
t_TrqLOA_X_Kph_u10p6[5]	16256
t_TrqLOA_X_Kph_u10p6[6]	16320
t_TrqLOA_X_Kph_u10p6[7]	16384
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc



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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-7.66519117		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	416.382568		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	286.772766		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	196.852356		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.958824396	0.958824396	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.465533465	0.465533465 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.42920613	-1.42920613 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.35 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.665592313	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0289999992	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.63311434	
TrqLOA_TloaCmd_MtrNm_M_f32	8	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.293881118	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.54366064	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	421.076324	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-27.4218597	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	25.8486786	
k_TrqLOA_FallingRampRate_UlspS_f32	-990.534912	
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.5	
k_TrqLOA_LimOutput_MtrNm_f32	8.53811264	
k_TrqLOA_MaxScaleFactor_Uls_f32	0.236881852	
k_TrqLOA_MinScaleFactor_Uls_f32	0.845024467	
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.26870954	
k_TrqLOA_RisingRampRate_UlspS_f32	630.161194	
k_TrqLOA_SteerRatio_Uls_f32	61.5083542	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	10.0410261	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158	



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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107		
t_TrqLOA_DiffGainX_G_u2p14[0]	5079		
t_TrqLOA_DiffGainX_G_u2p14[1]	6062		
t_TrqLOA_DiffGainX_G_u2p14[2]	6390		
t_TrqLOA_DiffGainX_G_u2p14[3]	6554		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	3520		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	3840		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	4160		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	4480		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	4800		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443		
t_TrqLOA_X_Kph_u10p6[0]	16448		
t_TrqLOA_X_Kph_u10p6[1]	16512		
t_TrqLOA_X_Kph_u10p6[2]	16576		
t_TrqLOA_X_Kph_u10p6[3]	16640		
t_TrqLOA_X_Kph_u10p6[4]	16704		
t_TrqLOA_X_Kph_u10p6[5]	16768		
t_TrqLOA_X_Kph_u10p6[6]	16832		
t_TrqLOA_X_Kph_u10p6[7]	16896		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	5.27947807		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1722.43982		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	225.925964		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	146.495758		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.610748589	0.610748589	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.491507351	0.491507351 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.845024467	0.845024467 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	1	1	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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## Test Step 2.36 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0295000002
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.00813484
TrqLOA_TloaCmd_MtrNm_M_f32	-8
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.198748589
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.77707434
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	6.5142622
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-69.2371216
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	79.5679626
k_TrqLOA_FallingRampRate_UlspS_f32	-711.263794
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.74153614
k_TrqLOA_LimOutput_MtrNm_f32	6.41432095
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.60880971
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.13495827
k_TrqLOA_RisingRampRate_UlspS_f32	799.012878
k_TrqLOA_SteerRatio_Uls_f32	1
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	17.710001
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	6881
t_TrqLOA_DiffGainX_G_u2p14[1]	7864
t_TrqLOA_DiffGainX_G_u2p14[2]	8520
t_TrqLOA_DiffGainX_G_u2p14[3]	9830
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	5120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	5440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	5760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	6080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	6400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262		
t_TrqLOA_X_Kph_u10p6[0]	16960		
t_TrqLOA_X_Kph_u10p6[1]	17024		
t_TrqLOA_X_Kph_u10p6[2]	17088		
t_TrqLOA_X_Kph_u10p6[3]	17152		
t_TrqLOA_X_Kph_u10p6[4]	17216		
t_TrqLOA_X_Kph_u10p6[5]	17280		
t_TrqLOA_X_Kph_u10p6[6]	17344		
t_TrqLOA_X_Kph_u10p6[7]	17408		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	4.72714806		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1863.97424		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	708.787415		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	199.909302		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.861525774	0.861525774	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	1.72507906	1.72507918 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.44732964	1.44732964 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	1.44732964	1.44732964 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	1.44732964	1.44732964 ± 0.01	✔

Test Step 2.37 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.600000024			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0299999993			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.64204121			
TrqLOA_TloaCmd_MtrNm_M_f32	-7.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.52260977			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.37450218			
k_TrqLOA_AbsVelThreshold_MtrRadps_f32	555.597839			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-40.9015045			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	35.3331413			
k_TrqLOA_FallingRampRate_UlspS_f32	-935.732483			
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.99184752			
k_TrqLOA_LimOutput_MtrNm_f32	3.54496264			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.83965385			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.77077007			
k_TrqLOA_RisingRampRate_UlspS_f32	300.217072			
k_TrqLOA_SteerRatio_Uls_f32	100			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	13.9105654			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	8684
t_TrqLOA_DiffGainX_G_u2p14[1]	9667
t_TrqLOA_DiffGainX_G_u2p14[2]	10650
t_TrqLOA_DiffGainX_G_u2p14[3]	13107
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	6720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	7040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	7360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	7680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	8000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	10650
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	18022
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	25805
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	30310
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29082
t_TrqLOA_X_Kph_u10p6[0]	17472
t_TrqLOA_X_Kph_u10p6[1]	17536
t_TrqLOA_X_Kph_u10p6[2]	17600
t_TrqLOA_X_Kph_u10p6[3]	17664
t_TrqLOA_X_Kph_u10p6[4]	17728
t_TrqLOA_X_Kph_u10p6[5]	17792
t_TrqLOA_X_Kph_u10p6[6]	17856
t_TrqLOA_X_Kph_u10p6[7]	17920
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1655.42114		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-265.072357		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	172.637421		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.918196976	0.918196976	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.577513218	0.577513158 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.0778244138	0.077824384 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.38 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.649999976	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0305000003	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.70486045	
TrqLOA_TloaCmd_MtrNm_M_f32	-7	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.940626979	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	10	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	429.092407	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-93.3903503	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	63.4560089	
k_TrqLOA_FallingRampRate_UlspS_f32	-663.422974	
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.26073194	
k_TrqLOA_LimOutput_MtrNm_f32	4.96274185	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	1	
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.74715996	
k_TrqLOA_RisingRampRate_UlspS_f32	709.764343	
k_TrqLOA_SteerRatio_Uls_f32	50.5	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	17.6551552	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655	

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226		
t_TrqLOA_DiffGainX_G_u2p14[0]	10486		
t_TrqLOA_DiffGainX_G_u2p14[1]	11469		
t_TrqLOA_DiffGainX_G_u2p14[2]	12780		
t_TrqLOA_DiffGainX_G_u2p14[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	8320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	8640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	8960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	9280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	9600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901		
t_TrqLOA_X_Kph_u10p6[0]	17984		
t_TrqLOA_X_Kph_u10p6[1]	18048		
t_TrqLOA_X_Kph_u10p6[2]	18112		
t_TrqLOA_X_Kph_u10p6[3]	18176		
t_TrqLOA_X_Kph_u10p6[4]	18240		
t_TrqLOA_X_Kph_u10p6[5]	18304		
t_TrqLOA_X_Kph_u10p6[6]	18368		
t_TrqLOA_X_Kph_u10p6[7]	18432		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.453732014		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-1.86167538		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1063.83716		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-893.729248		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	335.546814		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.813219309	0.813219309	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.595274091	0.59527415 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.99014843	-1.99014843 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-1.99014843	-1.99014843 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.478901744	0.478901744 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-1.99014843	-1.99014843 ± 0.01	✔

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Test Step 2.39 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0309999995
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.689713
TrqLOA_TloaCmd_MtrNm_M_f32	-6.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.00279856
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.92409658
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	938.560364
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-65.0403366
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	59.2697182
k_TrqLOA_FallingRampRate_UlspS_f32	-589.874451
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.38837457
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019
k_TrqLOA_MaxScaleFactor_Uls_f32	0.966261983
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.40401399
k_TrqLOA_RisingRampRate_UlspS_f32	927.330444
k_TrqLOA_SteerRatio_Uls_f32	61.7236214
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	0.5
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	12288
t_TrqLOA_DiffGainX_G_u2p14[1]	13271
t_TrqLOA_DiffGainX_G_u2p14[2]	14909
t_TrqLOA_DiffGainX_G_u2p14[3]	19661
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011



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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	12288		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	32768		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	30720		
t_TrqLOA_X_Kph_u10p6[0]	18496		
t_TrqLOA_X_Kph_u10p6[1]	18560		
t_TrqLOA_X_Kph_u10p6[2]	18624		
t_TrqLOA_X_Kph_u10p6[3]	18688		
t_TrqLOA_X_Kph_u10p6[4]	18752		
t_TrqLOA_X_Kph_u10p6[5]	18816		
t_TrqLOA_X_Kph_u10p6[6]	18880		
t_TrqLOA_X_Kph_u10p6[7]	18944		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	1.86038625		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-195.59465		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	12.1374235		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	211.537384		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.8699193	0.86991936	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.0973231718	0.0973231718 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.851862431	0.851862431 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.40 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.91244936		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0315000005		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-4.95014572		
TrqLOA_TloaCmd_MtrNm_M_f32	-6		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.319885492		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.55739784		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	959.739197		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-72.0533371		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	26.9691505		
k_TrqLOA_FallingRampRate_UlspS_f32	-541.51355		
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.52130985		
k_TrqLOA_LimOutput_MtrNm_f32	8.51498795		
k_TrqLOA_MaxScaleFactor_Uls_f32	0.482157707		
k_TrqLOA_MinScaleFactor_Uls_f32	1		
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019		
k_TrqLOA_RisingRampRate_UlspS_f32	377.945801		
k_TrqLOA_SterRatio_Uls_f32	22.4222202		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	20		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158		

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	14090
t_TrqLOA_DiffGainX_G_u2p14[1]	15073
t_TrqLOA_DiffGainX_G_u2p14[2]	17039
t_TrqLOA_DiffGainX_G_u2p14[3]	22938
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	11520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	11840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	12160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	12480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	12800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13107
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	26624
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	28262
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	33997
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	31539
t_TrqLOA_X_Kph_u10p6[0]	19008
t_TrqLOA_X_Kph_u10p6[1]	19072
t_TrqLOA_X_Kph_u10p6[2]	19136
t_TrqLOA_X_Kph_u10p6[3]	19200
t_TrqLOA_X_Kph_u10p6[4]	19264
t_TrqLOA_X_Kph_u10p6[5]	19328
t_TrqLOA_X_Kph_u10p6[6]	19392
t_TrqLOA_X_Kph_u10p6[7]	19456
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.739941597		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-976.868469		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-890.712952		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	225.409424		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.768342674	0.768342674	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.0724848881	0.0724848807 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.714185953	-0.71418643 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.714185953	-0.71418643 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.482157707	0.482157707 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.714185953	-0.71418643 ± 0.01	✔

Test Step 2.41 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0320000015	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-7.44888926	
TrqLOA_TloaCmd_MtrNm_M_f32	-5.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.38082528	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.01863813	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	439.142059	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-64.187973	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	75.3866577	
k_TrqLOA_FallingRampRate_UlspS_f32	-304.928375	
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.418666095	
k_TrqLOA_LimOutput_MtrNm_f32	5.07386923	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	1	
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.03548336	
k_TrqLOA_RisingRampRate_UlspS_f32	402.346283	
k_TrqLOA_SteerRatio_Uls_f32	51.4531326	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	13.5	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763	

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661		
t_TrqLOA_DiffGainX_G_u2p14[0]	15892		
t_TrqLOA_DiffGainX_G_u2p14[1]	16876		
t_TrqLOA_DiffGainX_G_u2p14[2]	19169		
t_TrqLOA_DiffGainX_G_u2p14[3]	26214		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	13120		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	13440		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	13760		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	14080		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	14400		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13926		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	35226		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	32358		
t_TrqLOA_X_Kph_u10p6[0]	19520		
t_TrqLOA_X_Kph_u10p6[1]	19584		
t_TrqLOA_X_Kph_u10p6[2]	19648		
t_TrqLOA_X_Kph_u10p6[3]	19712		
t_TrqLOA_X_Kph_u10p6[4]	19776		
t_TrqLOA_X_Kph_u10p6[5]	19840		
t_TrqLOA_X_Kph_u10p6[6]	19904		
t_TrqLOA_X_Kph_u10p6[7]	19968		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.487862706		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.19902897		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1352.72083		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-249.723404		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	74.2620544		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.871624053	0.871624053	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.188769668	0.188769668 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.0281592235	-0.0281592179 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.0281592235	-0.0281592179 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0		✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.0281592235	-0.0281592179 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.42 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.979087591
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0324999988
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.47503364
TrqLOA_TloaCmd_MtrNm_M_f32	-5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.3639822
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	807.052795
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-4.07561636
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	18.7742119
k_TrqLOA_FallingRampRate_UlspS_f32	-720.750061
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.6068635
k_TrqLOA_LimOutput_MtrNm_f32	8.7332983
k_TrqLOA_MaxScaleFactor_Uls_f32	0.0215017796
k_TrqLOA_MinScaleFactor_Uls_f32	0.174004555
k_TrqLOA_NomDrvTrq_MtrNm_f32	0
k_TrqLOA_RisingRampRate_UlspS_f32	132.842804
k_TrqLOA_SteerRatio_Uls_f32	24.7302666
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	10.1715307
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	17695
t_TrqLOA_DiffGainX_G_u2p14[1]	18678
t_TrqLOA_DiffGainX_G_u2p14[2]	21299
t_TrqLOA_DiffGainX_G_u2p14[3]	29491
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528		
t_TrqLOA_X_Kph_u10p6[0]	20032		
t_TrqLOA_X_Kph_u10p6[1]	20096		
t_TrqLOA_X_Kph_u10p6[2]	20160		
t_TrqLOA_X_Kph_u10p6[3]	20224		
t_TrqLOA_X_Kph_u10p6[4]	20288		
t_TrqLOA_X_Kph_u10p6[5]	20352		
t_TrqLOA_X_Kph_u10p6[6]	20416		
t_TrqLOA_X_Kph_u10p6[7]	20480		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.35405445		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-318.20462		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-97.0698242		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	312.297913		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.970936358	0.970936358	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.233417615	0.233417615 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.2711339	-0.2711339 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.2711339	-0.2711339 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.558499813	0.558499873 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.2711339	-0.2711339 ± 0.01	✔

Test Step 2.43 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.094681859			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0329999998			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	7.25802565			
TrqLOA_TloaCmd_MtrNm_M_f32	-4.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.681339085			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.70325565			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	970.150208			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-63.1004982			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	93.1288223			
k_TrqLOA_FallingRampRate_UlspS_f32	-667.898804			
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.29521966			
k_TrqLOA_LimOutput_MtrNm_f32	4.88429594			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.3448807			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019			
k_TrqLOA_RisingRampRate_UlspS_f32	716.946899			
k_TrqLOA_SterRatio_Uls_f32	42.5392456			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	0.908727586			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	328
t_TrqLOA_DiffGainX_G_u2p14[1]	1229
t_TrqLOA_DiffGainX_G_u2p14[2]	2458
t_TrqLOA_DiffGainX_G_u2p14[3]	3113
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347
t_TrqLOA_X_Kph_u10p6[0]	20544
t_TrqLOA_X_Kph_u10p6[1]	20608
t_TrqLOA_X_Kph_u10p6[2]	20672
t_TrqLOA_X_Kph_u10p6[3]	20736
t_TrqLOA_X_Kph_u10p6[4]	20800
t_TrqLOA_X_Kph_u10p6[5]	20864
t_TrqLOA_X_Kph_u10p6[6]	20928
t_TrqLOA_X_Kph_u10p6[7]	20992
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc



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Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.212739348		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	5.64538431		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1608.55676		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-403.709808		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	340.409088		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.190002441	0.190002441	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.268322796	0.268322766 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.3448807	0.3448807 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.44 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.255101204			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.349999994			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0335000008			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.23246837			
TrqLOA_TloaCmd_MtrNm_M_f32	-4			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.87201977			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	621.806824			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-54.2749367			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	49.2006645			
k_TrqLOA_FallingRampRate_UlspS_f32	-308.173584			
k_TrqLOA_LatAccConversionFactor_Uls_f32	6.49005699			
k_TrqLOA_LimOutput_MtrNm_f32	4.23094845			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.978592157			
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.5			
k_TrqLOA_RisingRampRate_UlspS_f32	75.7910156			
k_TrqLOA_SteerRatio_Uls_f32	19.941164			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	17.449913			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554			

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830		
t_TrqLOA_DiffGainX_G_u2p14[0]	3277		
t_TrqLOA_DiffGainX_G_u2p14[1]	4096		
t_TrqLOA_DiffGainX_G_u2p14[2]	4751		
t_TrqLOA_DiffGainX_G_u2p14[3]	4915		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166		
t_TrqLOA_X_Kph_u10p6[0]	21056		
t_TrqLOA_X_Kph_u10p6[1]	21120		
t_TrqLOA_X_Kph_u10p6[2]	21184		
t_TrqLOA_X_Kph_u10p6[3]	21248		
t_TrqLOA_X_Kph_u10p6[4]	21312		
t_TrqLOA_X_Kph_u10p6[5]	21376		
t_TrqLOA_X_Kph_u10p6[6]	21440		
t_TrqLOA_X_Kph_u10p6[7]	21504		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.76852036		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1508.21985		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	937.685364		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	301.419312		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.299987793	0.299987793	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.438464224	0.438464224 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.209976807	0.209976807 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.209976807	0.209976807 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.38365281	1.38365281 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.209976807	0.209976807 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.45 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.627236724
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0340000018
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	3.77577853
TrqLOA_TloaCmd_MtrNm_M_f32	-3.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	0
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	430.677612
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-62.066864
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	66.5156021
k_TrqLOA_FallingRampRate_UlspS_f32	-752.498779
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.46957707
k_TrqLOA_LimOutput_MtrNm_f32	5.42955256
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.877906442
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.68681836
k_TrqLOA_RisingRampRate_UlspS_f32	354.976929
k_TrqLOA_SteerRatio_Uls_f32	63.9988365
k_TrqLOA_UndersteerGrad_RadpG_f32	0.223930106
k_TrqLOA_Wheelbase_M_f32	5.41177559
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	5079
t_TrqLOA_DiffGainX_G_u2p14[1]	6062
t_TrqLOA_DiffGainX_G_u2p14[2]	6390
t_TrqLOA_DiffGainX_G_u2p14[3]	6554
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	19520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	19840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	20160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	20480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	20800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986		
t_TrqLOA_X_Kph_u10p6[0]	21568		
t_TrqLOA_X_Kph_u10p6[1]	21632		
t_TrqLOA_X_Kph_u10p6[2]	21696		
t_TrqLOA_X_Kph_u10p6[3]	21760		
t_TrqLOA_X_Kph_u10p6[4]	21824		
t_TrqLOA_X_Kph_u10p6[5]	21888		
t_TrqLOA_X_Kph_u10p6[6]	21952		
t_TrqLOA_X_Kph_u10p6[7]	22016		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.84254169		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1398.72522		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-974.238525		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	122.357391		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.503103018	0.503103018	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.352928221	0.352928221 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.0706770122	-0.0706770048 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.0706770122	-0.0706770048 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.877906442	0.877906442 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.0706770122	-0.0706770048 ± 0.01	✔

Test Step 2.46 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.8256495			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.449999988			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0344999991			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.3834337			
TrqLOA_TloaCmd_MtrNm_M_f32	-3			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.203701377			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	10			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	145.48053			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-50.5578461			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	99.1669159			
k_TrqLOA_FallingRampRate_UlspS_f32	-886.137207			
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.507670462			
k_TrqLOA_LimOutput_MtrNm_f32	8.40555477			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.0602126122			
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.57137871			
k_TrqLOA_RisingRampRate_UlspS_f32	383.702087			
k_TrqLOA_SteerRatio_Uls_f32	96.7855377			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	19.7386818			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	6881
t_TrqLOA_DiffGainX_G_u2p14[1]	7864
t_TrqLOA_DiffGainX_G_u2p14[2]	8520
t_TrqLOA_DiffGainX_G_u2p14[3]	9830
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	21120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	21440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	21760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	22080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	22400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805
t_TrqLOA_X_Kph_u10p6[0]	22080
t_TrqLOA_X_Kph_u10p6[1]	22144
t_TrqLOA_X_Kph_u10p6[2]	22208
t_TrqLOA_X_Kph_u10p6[3]	22272
t_TrqLOA_X_Kph_u10p6[4]	22336
t_TrqLOA_X_Kph_u10p6[5]	22400
t_TrqLOA_X_Kph_u10p6[6]	22464
t_TrqLOA_X_Kph_u10p6[7]	22528
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.0314078331		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.01422715		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1739.23352		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	300.68573		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	491.636902		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.724533796	0.724533796	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.441659391	0.441659391 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.0602126122	0.0602126122 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.47 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.660953164			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0350000001			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	5.33521175			
TrqLOA_TloaCmd_MtrNm_M_f32	-2.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.281446397			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.5			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	261.013611			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-81.0471191			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	18.8620987			
k_TrqLOA_FallingRampRate_UlspS_f32	-402.1922			
k_TrqLOA_LatAccConversionFactor_Uls_f32	4.45717812			
k_TrqLOA_LimOutput_MtrNm_f32	6.09960651			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.218074918			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.11426783			
k_TrqLOA_RisingRampRate_UlspS_f32	889.365356			
k_TrqLOA_SteerRatio_Uls_f32	22.2962933			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	15.2142324			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367			

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214		
t_TrqLOA_DiffGainX_G_u2p14[0]	8684		
t_TrqLOA_DiffGainX_G_u2p14[1]	9667		
t_TrqLOA_DiffGainX_G_u2p14[2]	10650		
t_TrqLOA_DiffGainX_G_u2p14[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	22720		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	23040		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	23360		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	23680		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	24000		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624		
t_TrqLOA_X_Kph_u10p6[0]	22592		
t_TrqLOA_X_Kph_u10p6[1]	22656		
t_TrqLOA_X_Kph_u10p6[2]	22720		
t_TrqLOA_X_Kph_u10p6[3]	22784		
t_TrqLOA_X_Kph_u10p6[4]	22848		
t_TrqLOA_X_Kph_u10p6[5]	22912		
t_TrqLOA_X_Kph_u10p6[6]	22976		
t_TrqLOA_X_Kph_u10p6[7]	23040		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-6.52269268		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1319.78271		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	228.642914		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	495.51712		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.698677361	0.698677361	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.506791711	0.506791711 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	1	1	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔



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## Test Step 2.48 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.738416195
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0355000012
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-8.80000019
TrqLOA_TloaCmd_MtrNm_M_f32	-2
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.85944247
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	8.13665009
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	70.0263748
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-8.00514412
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	99.516716
k_TrqLOA_FallingRampRate_UlspS_f32	-163.67894
k_TrqLOA_LatAccConversionFactor_Uls_f32	10
k_TrqLOA_LimOutput_MtrNm_f32	2.33877659
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.78339124
k_TrqLOA_RisingRampRate_UlspS_f32	36.7966118
k_TrqLOA_SteerRatio_Uls_f32	17.9014683
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	14.6375256
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	10486
t_TrqLOA_DiffGainX_G_u2p14[1]	11469
t_TrqLOA_DiffGainX_G_u2p14[2]	12780
t_TrqLOA_DiffGainX_G_u2p14[3]	16384
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	1280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	1600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443		
t_TrqLOA_X_Kph_u10p6[0]	23104		
t_TrqLOA_X_Kph_u10p6[1]	23168		
t_TrqLOA_X_Kph_u10p6[2]	23232		
t_TrqLOA_X_Kph_u10p6[3]	23296		
t_TrqLOA_X_Kph_u10p6[4]	23360		
t_TrqLOA_X_Kph_u10p6[5]	23424		
t_TrqLOA_X_Kph_u10p6[6]	23488		
t_TrqLOA_X_Kph_u10p6[7]	23552		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.200104475		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.82459116		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1454.8761		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	67.0191269		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	444.720215		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.72240591	0.72240591	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.539416969	0.539416969 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.101881564	0.101881497 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.101881564	0.101881497 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.53208458	1.53208458 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.101881564	0.101881497 ± 0.01	✔

Test Step 2.49 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.600000024			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0359999985			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019			
TrqLOA_TloaCmd_MtrNm_M_f32	-1.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.84868562			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	1.36437917			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	363.839569			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-51.9160385			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	54.2698441			
k_TrqLOA_FallingRampRate_UlspS_f32	-757.576233			
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.96104193			
k_TrqLOA_LimOutput_MtrNm_f32	8.29478836			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.954571128			
k_TrqLOA_MinScaleFactor_Uls_f32	0.385347486			
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.22014856			
k_TrqLOA_RisingRampRate_UlspS_f32	288.427185			
k_TrqLOA_SteerRatio_Uls_f32	83.423584			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	1.1615597			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	12288
t_TrqLOA_DiffGainX_G_u2p14[1]	13271
t_TrqLOA_DiffGainX_G_u2p14[2]	14909
t_TrqLOA_DiffGainX_G_u2p14[3]	19661
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	1920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	2240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	2560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	2880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	3200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262
t_TrqLOA_X_Kph_u10p6[0]	23616
t_TrqLOA_X_Kph_u10p6[1]	23680
t_TrqLOA_X_Kph_u10p6[2]	23744
t_TrqLOA_X_Kph_u10p6[3]	23808
t_TrqLOA_X_Kph_u10p6[4]	23872
t_TrqLOA_X_Kph_u10p6[5]	23936
t_TrqLOA_X_Kph_u10p6[6]	24000
t_TrqLOA_X_Kph_u10p6[7]	24064
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.20604527		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	1.25657976		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1630.51721		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-941.165222		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	42.5796814		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.896167934	0.896167934	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.557012975	0.557012916 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.27183127	-1.27183115 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.50 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.6499999976			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0364999995			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.5			
TrqLOA_TloaCmd_MtrNm_M_f32	-1			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.81958282			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.57627153			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	757.782959			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-98.6409302			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	48.0470161			
k_TrqLOA_FallingRampRate_UlspS_f32	-904.874451			
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.27001953			
k_TrqLOA_LimOutput_MtrNm_f32	0.89368403			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.102830887			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019			
k_TrqLOA_RisingRampRate_UlspS_f32	383.200195			
k_TrqLOA_SteerRatio_Uls_f32	23.5942974			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	14.1764631			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158			

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107		
t_TrqLOA_DiffGainX_G_u2p14[0]	14090		
t_TrqLOA_DiffGainX_G_u2p14[1]	15073		
t_TrqLOA_DiffGainX_G_u2p14[2]	17039		
t_TrqLOA_DiffGainX_G_u2p14[3]	22938		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	3520		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	3840		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	4160		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	4480		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	4800		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	30310		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29082		
t_TrqLOA_X_Kph_u10p6[0]	24128		
t_TrqLOA_X_Kph_u10p6[1]	24192		
t_TrqLOA_X_Kph_u10p6[2]	24256		
t_TrqLOA_X_Kph_u10p6[3]	24320		
t_TrqLOA_X_Kph_u10p6[4]	24384		
t_TrqLOA_X_Kph_u10p6[5]	24448		
t_TrqLOA_X_Kph_u10p6[6]	24512		
t_TrqLOA_X_Kph_u10p6[7]	24576		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-9.82586098		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	87.9351654		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	434.492554		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	320.595032		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.802718163	0.802718163	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.670124829	0.670124829 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.107311517	0.10731151 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.107311517	0.10731151 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.102830887	0.102830887 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.107311517	0.10731151 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.51 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0370000005
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0
TrqLOA_TloaCmd_MtrNm_M_f32	-0.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.87937516
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.81785297
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	441.991272
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-60.6560135
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	57.0433273
k_TrqLOA_FallingRampRate_UlspS_f32	-994.822144
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.58490086
k_TrqLOA_LimOutput_MtrNm_f32	8.23370457
k_TrqLOA_MaxScaleFactor_Uls_f32	0.558134675
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019
k_TrqLOA_RisingRampRate_UlspS_f32	740.574463
k_TrqLOA_SteerRatio_Uls_f32	11.6209812
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	9.96448612
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	15892
t_TrqLOA_DiffGainX_G_u2p14[1]	16876
t_TrqLOA_DiffGainX_G_u2p14[2]	19169
t_TrqLOA_DiffGainX_G_u2p14[3]	26214
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	5120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	5440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	5760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	6080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	6400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901		
t_TrqLOA_X_Kph_u10p6[0]	24640		
t_TrqLOA_X_Kph_u10p6[1]	24704		
t_TrqLOA_X_Kph_u10p6[2]	24768		
t_TrqLOA_X_Kph_u10p6[3]	24832		
t_TrqLOA_X_Kph_u10p6[4]	24896		
t_TrqLOA_X_Kph_u10p6[5]	24960		
t_TrqLOA_X_Kph_u10p6[6]	25024		
t_TrqLOA_X_Kph_u10p6[7]	25088		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.568960547		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	5.87574673		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1670.92468		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-371.607391		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	319.767731		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.878687978	0.878687978	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.0175995529	0.0175995585 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.601773798	0.601773739 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.52 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0375000015			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-4.5			
TrqLOA_TloaCmd_MtrNm_M_f32	0			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.77383447			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	730.688354			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-76.3539963			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	52.7584305			
k_TrqLOA_FallingRampRate_UlspS_f32	-193.01442			
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.3335619			
k_TrqLOA_LimOutput_MtrNm_f32	0.79102397			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.12011385			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.56076574			
k_TrqLOA_RisingRampRate_UlspS_f32	183.309341			
k_TrqLOA_SteerRatio_Uls_f32	65.6744766			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	19.3209667			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367			



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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	17695
t_TrqLOA_DiffGainX_G_u2p14[1]	18678
t_TrqLOA_DiffGainX_G_u2p14[2]	21299
t_TrqLOA_DiffGainX_G_u2p14[3]	29491
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	6720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	7040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	7360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	7680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	8000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	12288
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	25805
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	27443
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	32768
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	30720
t_TrqLOA_X_Kph_u10p6[0]	64
t_TrqLOA_X_Kph_u10p6[1]	128
t_TrqLOA_X_Kph_u10p6[2]	192
t_TrqLOA_X_Kph_u10p6[3]	256
t_TrqLOA_X_Kph_u10p6[4]	320
t_TrqLOA_X_Kph_u10p6[5]	384
t_TrqLOA_X_Kph_u10p6[6]	448
t_TrqLOA_X_Kph_u10p6[7]	512
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.0912983418		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.404431581		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	509.9104		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	963.509521		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	94.5933838		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.847292006	0.847292006	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.162682906	0.162682906 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.61397111	1.61397111 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.53 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0379999988	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-4.0950346	
TrqLOA_TloaCmd_MtrNm_M_f32	0.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.01458454	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.92621326	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	0	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-2.09286475	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	16.4385033	
k_TrqLOA_FallingRampRate_UlspS_f32	-2.64375544	
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.95141554	
k_TrqLOA_LimOutput_MtrNm_f32	0.824423671	
k_TrqLOA_MaxScaleFactor_Uls_f32	0.766085505	
k_TrqLOA_MinScaleFactor_Uls_f32	0.474400163	
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.01073074	
k_TrqLOA_RisingRampRate_UlspS_f32	998.71936	
k_TrqLOA_SteerRatio_Uls_f32	17.8633633	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	4.93362379	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655	

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226		
t_TrqLOA_DiffGainX_G_u2p14[0]	328		
t_TrqLOA_DiffGainX_G_u2p14[1]	1229		
t_TrqLOA_DiffGainX_G_u2p14[2]	2458		
t_TrqLOA_DiffGainX_G_u2p14[3]	3113		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	8320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	8640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	8960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	9280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	9600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	28262		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	33997		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	31539		
t_TrqLOA_X_Kph_u10p6[0]	576		
t_TrqLOA_X_Kph_u10p6[1]	640		
t_TrqLOA_X_Kph_u10p6[2]	704		
t_TrqLOA_X_Kph_u10p6[3]	768		
t_TrqLOA_X_Kph_u10p6[4]	832		
t_TrqLOA_X_Kph_u10p6[5]	896		
t_TrqLOA_X_Kph_u10p6[6]	960		
t_TrqLOA_X_Kph_u10p6[7]	1024		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.591545701		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-5.60033464		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1996.67395		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-417.604858		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	269.085175		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.995814264	0.995814264	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.132457942	0.132457957 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.83386064	-3.83386064 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.824423671	-0.824423671 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.00929701	1.00929701 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.824423671	-0.824423671 ± 0.01	✔

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Test Step 2.54 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0384999998	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.533717394	
TrqLOA_TloaCmd_MtrNm_M_f32	1	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.762170672	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	8.22060299	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	1000	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-60.1902962	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	14.1096458	
k_TrqLOA_FallingRampRate_UlspS_f32	-916.19989	
k_TrqLOA_LatAccConversionFactor_Uls_f32	4.97509384	
k_TrqLOA_LimOutput_MtrNm_f32	3.29564786	
k_TrqLOA_MaxScaleFactor_Uls_f32	0.707442999	
k_TrqLOA_MinScaleFactor_Uls_f32	1	
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.27512932	
k_TrqLOA_RisingRampRate_UlspS_f32	58.0827904	
k_TrqLOA_SteerRatio_Uls_f32	11.9985943	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	16.0181084	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830	
t_TrqLOA_DiffGainX_G_u2p14[0]	3277	
t_TrqLOA_DiffGainX_G_u2p14[1]	4096	
t_TrqLOA_DiffGainX_G_u2p14[2]	4751	
t_TrqLOA_DiffGainX_G_u2p14[3]	4915	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934	

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13926		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	35226		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	32358		
t_TrqLOA_X_Kph_u10p6[0]	1088		
t_TrqLOA_X_Kph_u10p6[1]	1152		
t_TrqLOA_X_Kph_u10p6[2]	1216		
t_TrqLOA_X_Kph_u10p6[3]	1280		
t_TrqLOA_X_Kph_u10p6[4]	1344		
t_TrqLOA_X_Kph_u10p6[5]	1408		
t_TrqLOA_X_Kph_u10p6[6]	1472		
t_TrqLOA_X_Kph_u10p6[7]	1536		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.764021397		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.21581197		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1167.25403		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-270.033112		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	192.703552		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.87961942	0.87961942	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.190765619	0.190765619 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.646005094	-0.646005094 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0	0 ± 0.01	✔

Test Step 2.55 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.637695909		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0390000008		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	3.97543454		
TrqLOA_TloaCmd_MtrNm_M_f32	1.5		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.908284605		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.6453557		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	404.5		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-7.51842785		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	20.3996239		
k_TrqLOA_FallingRampRate_UlspS_f32	-464.011536		
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.06608927		
k_TrqLOA_LimOutput_MtrNm_f32	4.70520544		
k_TrqLOA_MaxScaleFactor_Uls_f32	1		
k_TrqLOA_MinScaleFactor_Uls_f32	0.664818645		
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.47655058		
k_TrqLOA_RisingRampRate_UlspS_f32	552.899597		
k_TrqLOA_SteerRatio_Uls_f32	96.2371902		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	11.0910397		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158		

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	5079
t_TrqLOA_DiffGainX_G_u2p14[1]	6062
t_TrqLOA_DiffGainX_G_u2p14[2]	6390
t_TrqLOA_DiffGainX_G_u2p14[3]	6554
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	11520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	11840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	12160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	12480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	12800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528
t_TrqLOA_X_Kph_u10p6[0]	1600
t_TrqLOA_X_Kph_u10p6[1]	1664
t_TrqLOA_X_Kph_u10p6[2]	1728
t_TrqLOA_X_Kph_u10p6[3]	1792
t_TrqLOA_X_Kph_u10p6[4]	1856
t_TrqLOA_X_Kph_u10p6[5]	1920
t_TrqLOA_X_Kph_u10p6[6]	1984
t_TrqLOA_X_Kph_u10p6[7]	2048
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.601940989
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.82232189
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1492.13257
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-356.246979
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	200.567169

Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.622659028	0.622659028	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.2794604	0.2794604 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.197514594	0.197514579 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.56 (Repeat Count = 1)			✓
Name		Input Value	
Rte_Inst_Ap_TrqLOA		target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32		0.508383274	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32		0.349999994	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32		0.0395000018	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32		8.80000019	
TrqLOA_TloaCmd_MtrNm_M_f32		2	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32		-1.85330462	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32		4.75983143	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32		265.580505	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32		-8.98526001	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32		98.3069687	
k_TrqLOA_FallingRampRate_UlspS_f32		-22.6989975	
k_TrqLOA_LatAccConversionFactor_Uls_f32		7.02576303	
k_TrqLOA_LimOutput_MtrNm_f32		2.79434323	
k_TrqLOA_MaxScaleFactor_Uls_f32		0	
k_TrqLOA_MinScaleFactor_Uls_f32		0.0327279568	
k_TrqLOA_NomDrvTrq_MtrNm_f32		4.1759367	
k_TrqLOA_RisingRampRate_UlspS_f32		481.665192	
k_TrqLOA_SteerRatio_Uls_f32		87.3385468	
k_TrqLOA_UndersteerGrad_RadpG_f32		0.25	
k_TrqLOA_Wheelbase_M_f32		1.11183953	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]		13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]		15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]		17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]		19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]		13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]		15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]		17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]		19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]		13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]		15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]		17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]		19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]		13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]		15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]		17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]		19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]		13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]		15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]		17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]		19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]		13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]		15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]		17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]		19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]		13763	



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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661		
t_TrqLOA_DiffGainX_G_u2p14[0]	6881		
t_TrqLOA_DiffGainX_G_u2p14[1]	7864		
t_TrqLOA_DiffGainX_G_u2p14[2]	8520		
t_TrqLOA_DiffGainX_G_u2p14[3]	9830		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	13120		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	13440		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	13760		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	14080		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	14400		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347		
t_TrqLOA_X_Kph_u10p6[0]	2112		
t_TrqLOA_X_Kph_u10p6[1]	2176		
t_TrqLOA_X_Kph_u10p6[2]	2240		
t_TrqLOA_X_Kph_u10p6[3]	2304		
t_TrqLOA_X_Kph_u10p6[4]	2368		
t_TrqLOA_X_Kph_u10p6[5]	2432		
t_TrqLOA_X_Kph_u10p6[6]	2496		
t_TrqLOA_X_Kph_u10p6[7]	2560		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.45646667		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	824.946716		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-291.672058		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	40.8200684		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.600006104	0.600006104	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.329298735	0.329298735 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.889974177	-0.889974236 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.57 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0399999991
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	7.8268919
TrqLOA_TloaCmd_MtrNm_M_f32	2.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.43065906
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.31270456
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	489.314453
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-51.2935638
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	98.1905823
k_TrqLOA_FallingRampRate_UlspS_f32	-546.58197
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.49251175
k_TrqLOA_LimOutput_MtrNm_f32	3.4109993
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.580245137
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.90432882
k_TrqLOA_RisingRampRate_UlspS_f32	146.907883
k_TrqLOA_SteerRatio_Uls_f32	51.333065
k_TrqLOA_UndersteerGrad_RadpG_f32	0.184178278
k_TrqLOA_Wheelbase_M_f32	6.67440891
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	8684
t_TrqLOA_DiffGainX_G_u2p14[1]	9667
t_TrqLOA_DiffGainX_G_u2p14[2]	10650
t_TrqLOA_DiffGainX_G_u2p14[3]	13107
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166		
t_TrqLOA_X_Kph_u10p6[0]	2624		
t_TrqLOA_X_Kph_u10p6[1]	2688		
t_TrqLOA_X_Kph_u10p6[2]	2752		
t_TrqLOA_X_Kph_u10p6[3]	2816		
t_TrqLOA_X_Kph_u10p6[4]	2880		
t_TrqLOA_X_Kph_u10p6[5]	2944		
t_TrqLOA_X_Kph_u10p6[6]	3008		
t_TrqLOA_X_Kph_u10p6[7]	3072		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.75550842		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	653.842224		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-528.509216		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	256.530121		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.897412896	0.897412896	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.347527117	0.347527117 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.1368432	-1.1368432 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0	0 ± 0.01	✔

Test Step 2.58 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	1		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.449999988		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0405000001		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	6.26344252		
TrqLOA_TloaCmd_MtrNm_M_f32	3		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.773851991		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.77768135		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	747.446777		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-43.0547447		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	47.9102859		
k_TrqLOA_FallingRampRate_UlspS_f32	-937.159485		
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.3237052		
k_TrqLOA_LimOutput_MtrNm_f32	1.59632158		
k_TrqLOA_MaxScaleFactor_Uls_f32	0.5		
k_TrqLOA_MinScaleFactor_Uls_f32	1		
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.02700126		
k_TrqLOA_RisingRampRate_UlspS_f32	731.99884		
k_TrqLOA_SteerRatio_Uls_f32	41.2037506		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	10.5805426		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655		

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	10486
t_TrqLOA_DiffGainX_G_u2p14[1]	11469
t_TrqLOA_DiffGainX_G_u2p14[2]	12780
t_TrqLOA_DiffGainX_G_u2p14[3]	16384
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986
t_TrqLOA_X_Kph_u10p6[0]	3136
t_TrqLOA_X_Kph_u10p6[1]	3200
t_TrqLOA_X_Kph_u10p6[2]	3264
t_TrqLOA_X_Kph_u10p6[3]	3328
t_TrqLOA_X_Kph_u10p6[4]	3392
t_TrqLOA_X_Kph_u10p6[5]	3456
t_TrqLOA_X_Kph_u10p6[6]	3520
t_TrqLOA_X_Kph_u10p6[7]	3584
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.80274868		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.43354797		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-566.920227		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	186.27681		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	367.993713		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.913890481	0.913890481	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.444069028	0.444069058 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.32299316	1.32299316 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	1.32299316	1.32299316 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.690145731	0.690145671 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	1.32299316	1.32299316 ± 0.01	✓

Test Step 2.59 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.354075551			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0410000011			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019			
TrqLOA_TloaCmd_MtrNm_M_f32	3.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.57446289			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	876.234863			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-46.2754173			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	16.0770454			
k_TrqLOA_FallingRampRate_UlspS_f32	-197.560303			
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.72955799			
k_TrqLOA_LimOutput_MtrNm_f32	3.87198281			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.600276589			
k_TrqLOA_MinScaleFactor_Uls_f32	0			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019			
k_TrqLOA_RisingRampRate_UlspS_f32	421.95636			
k_TrqLOA_SteerRatio_Uls_f32	44.7789497			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	12.674366			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554			

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830		
t_TrqLOA_DiffGainX_G_u2p14[0]	12288		
t_TrqLOA_DiffGainX_G_u2p14[1]	13271		
t_TrqLOA_DiffGainX_G_u2p14[2]	14909		
t_TrqLOA_DiffGainX_G_u2p14[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805		
t_TrqLOA_X_Kph_u10p6[0]	3648		
t_TrqLOA_X_Kph_u10p6[1]	3712		
t_TrqLOA_X_Kph_u10p6[2]	3776		
t_TrqLOA_X_Kph_u10p6[3]	3840		
t_TrqLOA_X_Kph_u10p6[4]	3904		
t_TrqLOA_X_Kph_u10p6[5]	3968		
t_TrqLOA_X_Kph_u10p6[6]	4032		
t_TrqLOA_X_Kph_u10p6[7]	4096		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.55655992		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-9.07191467		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1045.78259		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	405.282532		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	413.821686		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.299987793	0.299987793	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.504466712	0.504466712 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.60487938	1.60487938 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.60 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.127310753
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0414999984
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.53648186
TrqLOA_TloaCmd_MtrNm_M_f32	4
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.461854458
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	1.92148387
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	720.753113
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-6.41326952
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	47.2866669
k_TrqLOA_FallingRampRate_UlspS_f32	-181.520218
k_TrqLOA_LatAccConversionFactor_Uls_f32	10
k_TrqLOA_LimOutput_MtrNm_f32	5.93761349
k_TrqLOA_MaxScaleFactor_Uls_f32	0.162633419
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.28077221
k_TrqLOA_RisingRampRate_UlspS_f32	457.330048
k_TrqLOA_SteerRatio_Uls_f32	58.241581
k_TrqLOA_UndersteerGrad_RadpG_f32	0.184339285
k_TrqLOA_Wheelbase_M_f32	4.6749692
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	14090
t_TrqLOA_DiffGainX_G_u2p14[1]	15073
t_TrqLOA_DiffGainX_G_u2p14[2]	17039
t_TrqLOA_DiffGainX_G_u2p14[3]	22938
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	19520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	19840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	20160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	20480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	20800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395



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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624		
t_TrqLOA_X_Kph_u10p6[0]	4160		
t_TrqLOA_X_Kph_u10p6[1]	4224		
t_TrqLOA_X_Kph_u10p6[2]	4288		
t_TrqLOA_X_Kph_u10p6[3]	4352		
t_TrqLOA_X_Kph_u10p6[4]	4416		
t_TrqLOA_X_Kph_u10p6[5]	4480		
t_TrqLOA_X_Kph_u10p6[6]	4544		
t_TrqLOA_X_Kph_u10p6[7]	4608		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.320883036		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	105.865387		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-463.388245		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	383.681519		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.221884102	0.221884087	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.496582747	0.496582747 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.452805698	0.452805638 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.61 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.600000024			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0419999994			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.59451866			
TrqLOA_TloaCmd_MtrNm_M_f32	4.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.5251174			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.73082399			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	682.238342			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-96.6626129			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	64.4656067			
k_TrqLOA_FallingRampRate_UlspS_f32	-740.465698			
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.30616283			
k_TrqLOA_LimOutput_MtrNm_f32	4.30037689			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.5			
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.25783968			
k_TrqLOA_RisingRampRate_UlspS_f32	720.657654			
k_TrqLOA_SteerRatio_Uls_f32	14.0389872			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	17.1706886			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	15892
t_TrqLOA_DiffGainX_G_u2p14[1]	16876
t_TrqLOA_DiffGainX_G_u2p14[2]	19169
t_TrqLOA_DiffGainX_G_u2p14[3]	26214
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	21120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	21440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	21760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	22080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	22400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443
t_TrqLOA_X_Kph_u10p6[0]	4672
t_TrqLOA_X_Kph_u10p6[1]	4736
t_TrqLOA_X_Kph_u10p6[2]	4800
t_TrqLOA_X_Kph_u10p6[3]	4864
t_TrqLOA_X_Kph_u10p6[4]	4928
t_TrqLOA_X_Kph_u10p6[5]	4992
t_TrqLOA_X_Kph_u10p6[6]	5056
t_TrqLOA_X_Kph_u10p6[7]	5120
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.325643182		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-9.67909622		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1983.73108		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	151.272461		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	504.07077		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.806674778	0.806674778	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.605344892	0.605344892 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.1167767	1.1167767 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	1.1167767	1.1167767 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.5	0.5 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	1.1167767	1.1167767 ± 0.01	✓

Test Step 2.62 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.6499999976	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0425000004	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-2.67422986	
TrqLOA_TloaCmd_MtrNm_M_f32	5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-2	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.5640955	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	748.600159	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-71.7383728	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	27.6928959	
k_TrqLOA_FallingRampRate_UlspS_f32	-96.2159729	
k_TrqLOA_LatAccConversionFactor_Uls_f32	2.10660577	
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	0.268023968	
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.01241589	
k_TrqLOA_RisingRampRate_UlspS_f32	761.766296	
k_TrqLOA_SteerRatio_Uls_f32	51.8408661	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	2.65969491	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367	

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214		
t_TrqLOA_DiffGainX_G_u2p14[0]	17695		
t_TrqLOA_DiffGainX_G_u2p14[1]	18678		
t_TrqLOA_DiffGainX_G_u2p14[2]	21299		
t_TrqLOA_DiffGainX_G_u2p14[3]	29491		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	22720		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	23040		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	23360		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	23680		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	24000		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262		
t_TrqLOA_X_Kph_u10p6[0]	5184		
t_TrqLOA_X_Kph_u10p6[1]	5248		
t_TrqLOA_X_Kph_u10p6[2]	5312		
t_TrqLOA_X_Kph_u10p6[3]	5376		
t_TrqLOA_X_Kph_u10p6[4]	5440		
t_TrqLOA_X_Kph_u10p6[5]	5504		
t_TrqLOA_X_Kph_u10p6[6]	5568		
t_TrqLOA_X_Kph_u10p6[7]	5632		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-2.9048202		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1074.27112		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	154.282684		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	20.9967651		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.856523275	0.856523275	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.624545872	0.624545872 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.476467371	-0.476467431 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.63 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0430000015
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.41386628
TrqLOA_TloaCmd_MtrNm_M_f32	5.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.84290671
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	384.24939
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-46.602211
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	62.1562195
k_TrqLOA_FallingRampRate_UlspS_f32	-245.017471
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.63429737
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019
k_TrqLOA_MaxScaleFactor_Uls_f32	0.78795445
k_TrqLOA_MinScaleFactor_Uls_f32	0.829191089
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.52885151
k_TrqLOA_RisingRampRate_UlspS_f32	334.853485
k_TrqLOA_SteerRatio_Uls_f32	41.602951
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	11.8579302
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	328
t_TrqLOA_DiffGainX_G_u2p14[1]	1229
t_TrqLOA_DiffGainX_G_u2p14[2]	2458
t_TrqLOA_DiffGainX_G_u2p14[3]	3113
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	1280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	1600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	30310		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29082		
t_TrqLOA_X_Kph_u10p6[0]	5696		
t_TrqLOA_X_Kph_u10p6[1]	5760		
t_TrqLOA_X_Kph_u10p6[2]	5824		
t_TrqLOA_X_Kph_u10p6[3]	5888		
t_TrqLOA_X_Kph_u10p6[4]	5952		
t_TrqLOA_X_Kph_u10p6[5]	6016		
t_TrqLOA_X_Kph_u10p6[6]	6080		
t_TrqLOA_X_Kph_u10p6[7]	6144		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.820146441		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-5.4794178		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1123.13818		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	982.462402		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	395.937531		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.906795561	0.906795561	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.163966477	0.163966462 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.619687796	0.619687855 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.619687796	0.619687855 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.50996506	1.50996506 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.619687796	0.619687855 ± 0.01	✔

Test Step 2.64 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	1		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0434999987		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019		
TrqLOA_TloaCmd_MtrNm_M_f32	6		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.5		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.98309565		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	909.534851		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-24.0498333		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	79.0181427		
k_TrqLOA_FallingRampRate_UlspS_f32	-208.018539		
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.6829052		
k_TrqLOA_LimOutput_MtrNm_f32	3.57006645		
k_TrqLOA_MaxScaleFactor_Uls_f32	1		
k_TrqLOA_MinScaleFactor_Uls_f32	1		
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.726554036		
k_TrqLOA_RisingRampRate_UlspS_f32	962.290283		
k_TrqLOA_SteerRatio_Uls_f32	6.56352139		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	3.98621607		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554		

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096
t_TrqLOA_DiffGainX_G_u2p14[2]	4751
t_TrqLOA_DiffGainX_G_u2p14[3]	4915
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	1920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	2240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	2560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	2880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	3200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901
t_TrqLOA_X_Kph_u10p6[0]	6208
t_TrqLOA_X_Kph_u10p6[1]	6272
t_TrqLOA_X_Kph_u10p6[2]	6336
t_TrqLOA_X_Kph_u10p6[3]	6400
t_TrqLOA_X_Kph_u10p6[4]	6464
t_TrqLOA_X_Kph_u10p6[5]	6528
t_TrqLOA_X_Kph_u10p6[6]	6592
t_TrqLOA_X_Kph_u10p6[7]	6656
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc



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Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.825533628		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.187185764		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1207.13953		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	863.729614		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	157.958984		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.951900303	0.951900363	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.513088524	0.513088584 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	4.16939354	4.16939354 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	3.57006645	3.57006645 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.08396292	1.08396292 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	3.57006645	3.57006645 ± 0.01	✔

Test Step 2.65 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0439999998			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.17687893			
TrqLOA_TloaCmd_MtrNm_M_f32	6.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	6.695158			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	223.666779			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-63.652092			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	90.6142044			
k_TrqLOA_FallingRampRate_UlspS_f32	-905.111084			
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.18578172			
k_TrqLOA_LimOutput_MtrNm_f32	4.45736408			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.556143165			
k_TrqLOA_MinScaleFactor_Uls_f32	0.31155026			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019			
k_TrqLOA_RisingRampRate_UlspS_f32	727.072083			
k_TrqLOA_SteerRatio_Uls_f32	77.6913376			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	13.2761326			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158			

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107		
t_TrqLOA_DiffGainX_G_u2p14[0]	5079		
t_TrqLOA_DiffGainX_G_u2p14[1]	6062		
t_TrqLOA_DiffGainX_G_u2p14[2]	6390		
t_TrqLOA_DiffGainX_G_u2p14[3]	6554		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	3520		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	3840		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	4160		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	4480		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	4800		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	12288		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	32768		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	30720		
t_TrqLOA_X_Kph_u10p6[0]	6720		
t_TrqLOA_X_Kph_u10p6[1]	6784		
t_TrqLOA_X_Kph_u10p6[2]	6848		
t_TrqLOA_X_Kph_u10p6[3]	6912		
t_TrqLOA_X_Kph_u10p6[4]	6976		
t_TrqLOA_X_Kph_u10p6[5]	7040		
t_TrqLOA_X_Kph_u10p6[6]	7104		
t_TrqLOA_X_Kph_u10p6[7]	7168		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.79644442		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-318.864502		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-499.803558		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	99.3633728		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.872695804	0.872695804	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.179463327	0.179463327 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.31155026	0.31155026 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.66 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0445000008
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	6.8573308
TrqLOA_TloaCmd_MtrNm_M_f32	7
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.5
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.97358274
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	49.2437706
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-85.8224258
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	14.4680319
k_TrqLOA_FallingRampRate_UlspS_f32	-621.608643
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.89980364
k_TrqLOA_LimOutput_MtrNm_f32	3.03662086
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.78711319
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.61790848
k_TrqLOA_RisingRampRate_UlspS_f32	432.887634
k_TrqLOA_SteerRatio_Uls_f32	60.0293274
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	16.850811
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	6881
t_TrqLOA_DiffGainX_G_u2p14[1]	7864
t_TrqLOA_DiffGainX_G_u2p14[2]	8520
t_TrqLOA_DiffGainX_G_u2p14[3]	9830
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	5120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	5440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	5760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	6080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	6400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	28262		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	33997		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	31539		
t_TrqLOA_X_Kph_u10p6[0]	7232		
t_TrqLOA_X_Kph_u10p6[1]	7296		
t_TrqLOA_X_Kph_u10p6[2]	7360		
t_TrqLOA_X_Kph_u10p6[3]	7424		
t_TrqLOA_X_Kph_u10p6[4]	7488		
t_TrqLOA_X_Kph_u10p6[5]	7552		
t_TrqLOA_X_Kph_u10p6[6]	7616		
t_TrqLOA_X_Kph_u10p6[7]	7680		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.652412415		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-7.17104101		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-170.91478		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	620.927979		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	0.74395752		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.828355134	0.828355134	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.238877073	0.238877073 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.634224713	-0.634224713 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.67 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.506645322			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0450000018			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-6.66807175			
TrqLOA_TloaCmd_MtrNm_M_f32	7.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.700403869			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.45697355			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	949.781738			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-31.9425945			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	32.4179688			
k_TrqLOA_FallingRampRate_UlspS_f32	-1000			
k_TrqLOA_LatAccConversionFactor_Uls_f32	2.98353696			
k_TrqLOA_LimOutput_MtrNm_f32	0.512901366			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.483349204			
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.99718761			
k_TrqLOA_RisingRampRate_UlspS_f32	498.645935			
k_TrqLOA_SterRatio_Uls_f32	44.6010437			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.208570436			
k_TrqLOA_Wheelbase_M_f32	7.8872447			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367			

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	8684
t_TrqLOA_DiffGainX_G_u2p14[1]	9667
t_TrqLOA_DiffGainX_G_u2p14[2]	10650
t_TrqLOA_DiffGainX_G_u2p14[3]	13107
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	6720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	7040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	7360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	7680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	8000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13926
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	22938
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	27443
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	29082
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	35226
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	32358
t_TrqLOA_X_Kph_u10p6[0]	7744
t_TrqLOA_X_Kph_u10p6[1]	7808
t_TrqLOA_X_Kph_u10p6[2]	7872
t_TrqLOA_X_Kph_u10p6[3]	7936
t_TrqLOA_X_Kph_u10p6[4]	8000
t_TrqLOA_X_Kph_u10p6[5]	8064
t_TrqLOA_X_Kph_u10p6[6]	8128
t_TrqLOA_X_Kph_u10p6[7]	8192
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.08804321		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1422.61047		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	540.524841		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	191.820953		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.571481287	0.571481287	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.326862931	0.326862901 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.296888053	0.296887994 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	1	1	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.68 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.3499999994			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0454999991			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.49777293			
TrqLOA_TloaCmd_MtrNm_M_f32	8			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.295269966			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.363307			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	56.798336			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-61.001091			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	98.7214127			
k_TrqLOA_FallingRampRate_UlspS_f32	0			
k_TrqLOA_LatAccConversionFactor_Uls_f32	6.27368927			
k_TrqLOA_LimOutput_MtrNm_f32	8.22940922			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.735090733			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.917102754			
k_TrqLOA_RisingRampRate_UlspS_f32	186.693497			
k_TrqLOA_SteerRatio_Uls_f32	39.8788223			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	7.71528864			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655			

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226		
t_TrqLOA_DiffGainX_G_u2p14[0]	10486		
t_TrqLOA_DiffGainX_G_u2p14[1]	11469		
t_TrqLOA_DiffGainX_G_u2p14[2]	12780		
t_TrqLOA_DiffGainX_G_u2p14[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	8320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	8640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	8960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	9280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	9600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528		
t_TrqLOA_X_Kph_u10p6[0]	8256		
t_TrqLOA_X_Kph_u10p6[1]	8320		
t_TrqLOA_X_Kph_u10p6[2]	8384		
t_TrqLOA_X_Kph_u10p6[3]	8448		
t_TrqLOA_X_Kph_u10p6[4]	8512		
t_TrqLOA_X_Kph_u10p6[5]	8576		
t_TrqLOA_X_Kph_u10p6[6]	8640		
t_TrqLOA_X_Kph_u10p6[7]	8704		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.415122271		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-1.57159448		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	282.348785		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-184.202667		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	156.933716		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.877997816	0.877997816	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.321418583	0.321418583 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.480407476	-0.480407506 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.480407476	-0.480407506 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.668656945	0.668656945 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.480407476	-0.480407506 ± 0.01	✔



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TrqLOA\_Per1

## Test Step 2.69 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.450142264
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0460000001
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.98117018
TrqLOA_TloaCmd_MtrNm_M_f32	-8
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.63728714
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	500.544464
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-49.6310883
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	63.2887993
k_TrqLOA_FallingRampRate_UlspS_f32	-500.5
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.92292833
k_TrqLOA_LimOutput_MtrNm_f32	6.08133841
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.504637361
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.92160225
k_TrqLOA_RisingRampRate_UlspS_f32	152.770966
k_TrqLOA_SteerRatio_Uls_f32	75.8167191
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	11.2628651
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	12288
t_TrqLOA_DiffGainX_G_u2p14[1]	13271
t_TrqLOA_DiffGainX_G_u2p14[2]	14909
t_TrqLOA_DiffGainX_G_u2p14[3]	19661
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347		
t_TrqLOA_X_Kph_u10p6[0]	8768		
t_TrqLOA_X_Kph_u10p6[1]	8832		
t_TrqLOA_X_Kph_u10p6[2]	8896		
t_TrqLOA_X_Kph_u10p6[3]	8960		
t_TrqLOA_X_Kph_u10p6[4]	9024		
t_TrqLOA_X_Kph_u10p6[5]	9088		
t_TrqLOA_X_Kph_u10p6[6]	9152		
t_TrqLOA_X_Kph_u10p6[7]	9216		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.37202704		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-6.50802565		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-466.120972		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	260.477936		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	22.5641785		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.350880086	0.350880086	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.382500827	0.382500827 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.998999953	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

## Test Step 2.70 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.352974415
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0474999994
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-2.62539387
TrqLOA_TloaCmd_MtrNm_M_f32	-7.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.729070425
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	6.7219696
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	692.47583
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-19.6143894
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	29.4690685
k_TrqLOA_FallingRampRate_UlspS_f32	-981.129272
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.25146341
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.21190357
k_TrqLOA_RisingRampRate_UlspS_f32	0
k_TrqLOA_SterRatio_Uls_f32	96.7189789
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	5.73355579
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	14090
t_TrqLOA_DiffGainX_G_u2p14[1]	15073
t_TrqLOA_DiffGainX_G_u2p14[2]	17039
t_TrqLOA_DiffGainX_G_u2p14[3]	22938
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	11520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	11840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	12160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	12480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	12800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166
t_TrqLOA_X_Kph_u10p6[0]	9280
t_TrqLOA_X_Kph_u10p6[1]	9344
t_TrqLOA_X_Kph_u10p6[2]	9408
t_TrqLOA_X_Kph_u10p6[3]	9472
t_TrqLOA_X_Kph_u10p6[4]	9536
t_TrqLOA_X_Kph_u10p6[5]	9600
t_TrqLOA_X_Kph_u10p6[6]	9664
t_TrqLOA_X_Kph_u10p6[7]	9728
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.915942907		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.80525494		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1150.30505		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-733.556641		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	252.386963		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.399993896	0.399993896	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.499824852	0.499824852 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.729070425	-0.729070425 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0	0 ± 0.01	✔

Test Step 2.71 (Repeat Count = 1) ✓			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	1		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.600000024		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0480000004		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-7.12119102		
TrqLOA_TloaCmd_MtrNm_M_f32	-7		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	10		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	992.637268		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-38.2450409		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	17.5841713		
k_TrqLOA_FallingRampRate_UlspS_f32	-548.188599		
k_TrqLOA_LatAccConversionFactor_Uls_f32	4.4588685		
k_TrqLOA_LimOutput_MtrNm_f32	3.571872		
k_TrqLOA_MaxScaleFactor_Uls_f32	1		
k_TrqLOA_MinScaleFactor_Uls_f32	1		
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.36693668		
k_TrqLOA_RisingRampRate_UlspS_f32	1000		
k_TrqLOA_SteerRatio_Uls_f32	49.0706635		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	1.79803026		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763		

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661		
t_TrqLOA_DiffGainX_G_u2p14[0]	15892		
t_TrqLOA_DiffGainX_G_u2p14[1]	16876		
t_TrqLOA_DiffGainX_G_u2p14[2]	19169		
t_TrqLOA_DiffGainX_G_u2p14[3]	26214		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	13120		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	13440		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	13760		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	14080		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	14400		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986		
t_TrqLOA_X_Kph_u10p6[0]	9792		
t_TrqLOA_X_Kph_u10p6[1]	9856		
t_TrqLOA_X_Kph_u10p6[2]	9920		
t_TrqLOA_X_Kph_u10p6[3]	9984		
t_TrqLOA_X_Kph_u10p6[4]	10048		
t_TrqLOA_X_Kph_u10p6[5]	10112		
t_TrqLOA_X_Kph_u10p6[6]	10176		
t_TrqLOA_X_Kph_u10p6[7]	10240		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	1.14730155		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-762.080994		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	939.793945		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	434.329437		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.923509896	0.923509896	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.635068953	0.635068953 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.72 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.482875586
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.649999976
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0485000014
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.76398754
TrqLOA_TloaCmd_MtrNm_M_f32	-6.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.95558393
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.40372181
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	892.451904
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-25.6837158
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	40.0898781
k_TrqLOA_FallingRampRate_UlspS_f32	-309.647156
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.89426363
k_TrqLOA_LimOutput_MtrNm_f32	4.30061722
k_TrqLOA_MaxScaleFactor_Uls_f32	0.480428934
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.92765474
k_TrqLOA_RisingRampRate_UlspS_f32	922.5
k_TrqLOA_SteerRatio_Uls_f32	70.3542328
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	18.7433701
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	17695
t_TrqLOA_DiffGainX_G_u2p14[1]	18678
t_TrqLOA_DiffGainX_G_u2p14[2]	21299
t_TrqLOA_DiffGainX_G_u2p14[3]	29491
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805		
t_TrqLOA_X_Kph_u10p6[0]	10304		
t_TrqLOA_X_Kph_u10p6[1]	10368		
t_TrqLOA_X_Kph_u10p6[2]	10432		
t_TrqLOA_X_Kph_u10p6[3]	10496		
t_TrqLOA_X_Kph_u10p6[4]	10560		
t_TrqLOA_X_Kph_u10p6[5]	10624		
t_TrqLOA_X_Kph_u10p6[6]	10688		
t_TrqLOA_X_Kph_u10p6[7]	10752		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.522736549		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	1.15578187		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1699.8855		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-644.580872		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	469.095764		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.529998779	0.529998779	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.588741004	0.588741064 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.73 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.774724126		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0489999987		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-7.1575346		
TrqLOA_TloaCmd_MtrNm_M_f32	-6		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.2461462		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	481.298553		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-65.9383087		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	81.4572144		
k_TrqLOA_FallingRampRate_UlspS_f32	-945.174316		
k_TrqLOA_LatAccConversionFactor_Uls_f32	10		
k_TrqLOA_LimOutput_MtrNm_f32	5.79835415		
k_TrqLOA_MaxScaleFactor_Uls_f32	1		
k_TrqLOA_MinScaleFactor_Uls_f32	0.219910979		
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.00554752		
k_TrqLOA_RisingRampRate_UlspS_f32	222.336975		
k_TrqLOA_SteerRatio_Uls_f32	90.237648		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	7.58481121		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655		



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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	328
t_TrqLOA_DiffGainX_G_u2p14[1]	1229
t_TrqLOA_DiffGainX_G_u2p14[2]	2458
t_TrqLOA_DiffGainX_G_u2p14[3]	3113
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624
t_TrqLOA_X_Kph_u10p6[0]	10816
t_TrqLOA_X_Kph_u10p6[1]	10880
t_TrqLOA_X_Kph_u10p6[2]	10944
t_TrqLOA_X_Kph_u10p6[3]	11008
t_TrqLOA_X_Kph_u10p6[4]	11072
t_TrqLOA_X_Kph_u10p6[5]	11136
t_TrqLOA_X_Kph_u10p6[6]	11200
t_TrqLOA_X_Kph_u10p6[7]	11264
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-6.53060865		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	188.256973		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	179.700195		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	255.015533		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.642847538	0.642847478	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.101530932	0.101530932 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.219910979	0.219910979 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.74 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.640755653			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0494999997			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-2.87358427			
TrqLOA_TloaCmd_MtrNm_M_f32	-5.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.394978046			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.25701976			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	784.324646			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-44.7751732			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	28.3893337			
k_TrqLOA_FallingRampRate_UlspS_f32	-342.446625			
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.02079964			
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.479087353			
k_TrqLOA_MinScaleFactor_Uls_f32	0.821064234			
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.17922974			
k_TrqLOA_RisingRampRate_UlspS_f32	114.818123			
k_TrqLOA_SteerRatio_Uls_f32	23.1350193			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	2.74685764			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554			

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830		
t_TrqLOA_DiffGainX_G_u2p14[0]	3277		
t_TrqLOA_DiffGainX_G_u2p14[1]	4096		
t_TrqLOA_DiffGainX_G_u2p14[2]	4751		
t_TrqLOA_DiffGainX_G_u2p14[3]	4915		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443		
t_TrqLOA_X_Kph_u10p6[0]	11328		
t_TrqLOA_X_Kph_u10p6[1]	11392		
t_TrqLOA_X_Kph_u10p6[2]	11456		
t_TrqLOA_X_Kph_u10p6[3]	11520		
t_TrqLOA_X_Kph_u10p6[4]	11584		
t_TrqLOA_X_Kph_u10p6[5]	11648		
t_TrqLOA_X_Kph_u10p6[6]	11712		
t_TrqLOA_X_Kph_u10p6[7]	11776		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.757805109		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	6.69891167		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	853.767334		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	363.824524		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	426.599976		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.551205277	0.551205337	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.196506739	0.196506724 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.165341794	-0.165341809 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.75 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.192929626	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0500000007	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.24785995	
TrqLOA_TloaCmd_MtrNm_M_f32	-5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.67245817	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	852.235596	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-93.5251465	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	94.4281158	
k_TrqLOA_FallingRampRate_UlspS_f32	-53.3808022	
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.26113749	
k_TrqLOA_LimOutput_MtrNm_f32	6.34435844	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	0.354396462	
k_TrqLOA_NomDrvTrq_MtrNm_f32	3.1736002	
k_TrqLOA_RisingRampRate_UlspS_f32	568.303833	
k_TrqLOA_SteerRatio_Uls_f32	15.5500841	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	13.0453558	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107	
t_TrqLOA_DiffGainX_G_u2p14[0]	5079	
t_TrqLOA_DiffGainX_G_u2p14[1]	6062	
t_TrqLOA_DiffGainX_G_u2p14[2]	6390	
t_TrqLOA_DiffGainX_G_u2p14[3]	6554	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	19520	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	19840	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	20160	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	20480	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	20800	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011	

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262		
t_TrqLOA_X_Kph_u10p6[0]	11840		
t_TrqLOA_X_Kph_u10p6[1]	11904		
t_TrqLOA_X_Kph_u10p6[2]	11968		
t_TrqLOA_X_Kph_u10p6[3]	12032		
t_TrqLOA_X_Kph_u10p6[4]	12096		
t_TrqLOA_X_Kph_u10p6[5]	12160		
t_TrqLOA_X_Kph_u10p6[6]	12224		
t_TrqLOA_X_Kph_u10p6[7]	12288		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.579330087		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1213.04968		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-780.763367		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	139.815399		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.38178587	0.38178584	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.0591392368	0.0591392331 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.89323843	1.89323843 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.76 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0505000018			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.5202601			
TrqLOA_TloaCmd_MtrNm_M_f32	-4.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.33790362			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.89446616			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	157.472565			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-48.3060532			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	17.9938412			
k_TrqLOA_FallingRampRate_UlspS_f32	-768.387695			
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.781621635			
k_TrqLOA_LimOutput_MtrNm_f32	6.82871485			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.6190238			
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.43173671			
k_TrqLOA_RisingRampRate_UlspS_f32	754.496765			
k_TrqLOA_SteerRatio_Uls_f32	58.7333565			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	3.76469874			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	6881
t_TrqLOA_DiffGainX_G_u2p14[1]	7864
t_TrqLOA_DiffGainX_G_u2p14[2]	8520
t_TrqLOA_DiffGainX_G_u2p14[3]	9830
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	10650
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	18022
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	25805
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	30310
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29082
t_TrqLOA_X_Kph_u10p6[0]	12352
t_TrqLOA_X_Kph_u10p6[1]	12416
t_TrqLOA_X_Kph_u10p6[2]	12480
t_TrqLOA_X_Kph_u10p6[3]	12544
t_TrqLOA_X_Kph_u10p6[4]	12608
t_TrqLOA_X_Kph_u10p6[5]	12672
t_TrqLOA_X_Kph_u10p6[6]	12736
t_TrqLOA_X_Kph_u10p6[7]	12800
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.86872864		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	819.699768		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	302.582581		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	284.262878		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.903387904	0.903387904	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.255117685	0.255117685 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.175858855	0.175858811 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.175858855	0.175858811 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.6190238	0.6190238 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.175858855	0.175858811 ± 0.01	✔

Test Step 2.77 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.050999999	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	4.97012091	
TrqLOA_TloaCmd_MtrNm_M_f32	-4	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.521495759	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.38597393	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	399.039459	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-13.433363	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	52.6879501	
k_TrqLOA_FallingRampRate_UlspS_f32	-393.751373	
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.18942642	
k_TrqLOA_LimOutput_MtrNm_f32	7.32739162	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	0.606269717	
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019	
k_TrqLOA_RisingRampRate_UlspS_f32	748.655151	
k_TrqLOA_SteerRatio_Uls_f32	86.64814	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	1.35590708	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367	



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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214		
t_TrqLOA_DiffGainX_G_u2p14[0]	8684		
t_TrqLOA_DiffGainX_G_u2p14[1]	9667		
t_TrqLOA_DiffGainX_G_u2p14[2]	10650		
t_TrqLOA_DiffGainX_G_u2p14[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	25600		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	25600		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	25600		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	25600		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	25600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901		
t_TrqLOA_X_Kph_u10p6[0]	12864		
t_TrqLOA_X_Kph_u10p6[1]	12928		
t_TrqLOA_X_Kph_u10p6[2]	12992		
t_TrqLOA_X_Kph_u10p6[3]	13056		
t_TrqLOA_X_Kph_u10p6[4]	13120		
t_TrqLOA_X_Kph_u10p6[5]	13184		
t_TrqLOA_X_Kph_u10p6[6]	13248		
t_TrqLOA_X_Kph_u10p6[7]	13312		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.2390604		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	696.445374		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	476.985565		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	46.6391907		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.973133266	0.973133266	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.299582779	0.299582779 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.606269717	0.606269717 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.78 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.349999994	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0515000001	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.81693447	
TrqLOA_TloaCmd_MtrNm_M_f32	-3.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.574706316	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.75135612	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	134.942993	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-29.9538345	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	21.1192341	
k_TrqLOA_FallingRampRate_UlspS_f32	-273.069763	
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.67699265	
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019	
k_TrqLOA_MaxScaleFactor_Uls_f32	0.211372375	
k_TrqLOA_MinScaleFactor_Uls_f32	0.176148176	
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.09926987	
k_TrqLOA_RisingRampRate_UlspS_f32	546.905884	
k_TrqLOA_SteerRatio_Uls_f32	74.2599945	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	16.0533218	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226	
t_TrqLOA_DiffGainX_G_u2p14[0]	10486	
t_TrqLOA_DiffGainX_G_u2p14[1]	11469	
t_TrqLOA_DiffGainX_G_u2p14[2]	12780	
t_TrqLOA_DiffGainX_G_u2p14[3]	16384	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	3840	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	4480	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	5120	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	5760	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	6400	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934	

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	12288		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	32768		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	30720		
t_TrqLOA_X_Kph_u10p6[0]	13376		
t_TrqLOA_X_Kph_u10p6[1]	13440		
t_TrqLOA_X_Kph_u10p6[2]	13504		
t_TrqLOA_X_Kph_u10p6[3]	13568		
t_TrqLOA_X_Kph_u10p6[4]	13632		
t_TrqLOA_X_Kph_u10p6[5]	13696		
t_TrqLOA_X_Kph_u10p6[6]	13760		
t_TrqLOA_X_Kph_u10p6[7]	13824		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	7.42021513		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1275.44128		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	560.891602		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	396.354004		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.940092325	0.940092325	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.357789844	0.357789844 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.0428256989	0.0428255945 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.0428256989	0.0428255945 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.176148176	0.176148176 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.0428256989	0.0428255945 ± 0.01	✔

Test Step 2.79 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.0926550627			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0520000011			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.6898756			
TrqLOA_TloaCmd_MtrNm_M_f32	-3			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.0833485723			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.19799519			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	734.1073			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-23.7477036			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	18.2220573			
k_TrqLOA_FallingRampRate_UlspS_f32	-177.198669			
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.82510281			
k_TrqLOA_LimOutput_MtrNm_f32	5.2956357			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.964477897			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	3.61352849			
k_TrqLOA_RisingRampRate_UlspS_f32	496.163788			
k_TrqLOA_SteerRatio_Uls_f32	66.1058121			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	14.8917131			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	12288
t_TrqLOA_DiffGainX_G_u2p14[1]	13271
t_TrqLOA_DiffGainX_G_u2p14[2]	14909
t_TrqLOA_DiffGainX_G_u2p14[3]	19661
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	1280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	1920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	2560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	3200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	0
t_TrqLOA_X_Kph_u10p6[0]	13888
t_TrqLOA_X_Kph_u10p6[1]	13952
t_TrqLOA_X_Kph_u10p6[2]	14016
t_TrqLOA_X_Kph_u10p6[3]	14080
t_TrqLOA_X_Kph_u10p6[4]	14144
t_TrqLOA_X_Kph_u10p6[5]	14208
t_TrqLOA_X_Kph_u10p6[6]	14272
t_TrqLOA_X_Kph_u10p6[7]	14336
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.856912732		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	6.23505163		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1588.14465		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-136.48378		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	276.678314		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.129099175	0.129099175	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.372379482	0.372379482 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.908979058	0.908978999 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.80 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.4499999988			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0524999984			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-7.83283663			
TrqLOA_TloaCmd_MtrNm_M_f32	-2.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	10			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	954.927002			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-70.1127396			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	60.9110832			
k_TrqLOA_FallingRampRate_UlspS_f32	-399.622284			
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.31709409			
k_TrqLOA_LimOutput_MtrNm_f32	6.46497059			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.195761919			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.96180534			
k_TrqLOA_RisingRampRate_UlspS_f32	551.797058			
k_TrqLOA_SteerRatio_Uls_f32	20.2741756			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	1.05338657			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158			

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107		
t_TrqLOA_DiffGainX_G_u2p14[0]	14090		
t_TrqLOA_DiffGainX_G_u2p14[1]	15073		
t_TrqLOA_DiffGainX_G_u2p14[2]	17039		
t_TrqLOA_DiffGainX_G_u2p14[3]	22938		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	6720		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	7040		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	7360		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	7680		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	8000		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	36045		
t_TrqLOA_X_Kph_u10p6[0]	14400		
t_TrqLOA_X_Kph_u10p6[1]	14464		
t_TrqLOA_X_Kph_u10p6[2]	14528		
t_TrqLOA_X_Kph_u10p6[3]	14592		
t_TrqLOA_X_Kph_u10p6[4]	14656		
t_TrqLOA_X_Kph_u10p6[5]	14720		
t_TrqLOA_X_Kph_u10p6[6]	14784		
t_TrqLOA_X_Kph_u10p6[7]	14848		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.195947647		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-2.8999486		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1780.99292		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-834.448364		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	375.299133		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.85977453	0.85977453	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.276093841	0.276093841 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.29633284	-5.29633284 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-5.29633284	-5.29633284 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.20075536	1.20075548 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-5.29633284	-5.29633284 ± 0.01	✔

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Test Step 2.81 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.147569776	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.05299999994	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.6737206	
TrqLOA_TloaCmd_MtrNm_M_f32	-2	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.340689003	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	1.51961756	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	931.717346	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-81.3402023	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	1.28901112	
k_TrqLOA_FallingRampRate_UlspS_f32	-240.732864	
k_TrqLOA_LatAccConversionFactor_Uls_f32	10	
k_TrqLOA_LimOutput_MtrNm_f32	1.79836071	
k_TrqLOA_MaxScaleFactor_Uls_f32	0.405108094	
k_TrqLOA_MinScaleFactor_Uls_f32	1	
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.481317669	
k_TrqLOA_RisingRampRate_UlspS_f32	862.363953	
k_TrqLOA_SteerRatio_Uls_f32	87.4016571	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	6.131567	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661	
t_TrqLOA_DiffGainX_G_u2p14[0]	15892	
t_TrqLOA_DiffGainX_G_u2p14[1]	16876	
t_TrqLOA_DiffGainX_G_u2p14[2]	19169	
t_TrqLOA_DiffGainX_G_u2p14[3]	26214	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	8320	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	8640	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	8960	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	9280	
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	9600	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661	
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960	
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779	



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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528		
t_TrqLOA_X_Kph_u10p6[0]	14912		
t_TrqLOA_X_Kph_u10p6[1]	14976		
t_TrqLOA_X_Kph_u10p6[2]	15040		
t_TrqLOA_X_Kph_u10p6[3]	15104		
t_TrqLOA_X_Kph_u10p6[4]	15168		
t_TrqLOA_X_Kph_u10p6[5]	15232		
t_TrqLOA_X_Kph_u10p6[6]	15296		
t_TrqLOA_X_Kph_u10p6[7]	15360		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.51402378		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1134.6853		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-0.0952710509		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	444.655426		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.150147796	0.150147796	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.47349602	0.47349602 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.405108094	0.405108094 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.82 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.581789017		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0535000004		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.800000019		
TrqLOA_TloaCmd_MtrNm_M_f32	-1.5		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.67078209		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.3697114		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	22.0355587		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-7.00261021		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	69.5077057		
k_TrqLOA_FallingRampRate_UlspS_f32	-255.819397		
k_TrqLOA_LatAccConversionFactor_Uls_f32	2.26387119		
k_TrqLOA_LimOutput_MtrNm_f32	8.800000019		
k_TrqLOA_MaxScaleFactor_Uls_f32	0.942474842		
k_TrqLOA_MinScaleFactor_Uls_f32	1		
k_TrqLOA_NomDrvTrq_MtrNm_f32	3.71725106		
k_TrqLOA_RisingRampRate_UlspS_f32	938.2005		
k_TrqLOA_SteerRatio_Uls_f32	40.8715019		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	16.9261703		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367		

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	17695
t_TrqLOA_DiffGainX_G_u2p14[1]	18678
t_TrqLOA_DiffGainX_G_u2p14[2]	21299
t_TrqLOA_DiffGainX_G_u2p14[3]	29491
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	0
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347
t_TrqLOA_X_Kph_u10p6[0]	15424
t_TrqLOA_X_Kph_u10p6[1]	15488
t_TrqLOA_X_Kph_u10p6[2]	15552
t_TrqLOA_X_Kph_u10p6[3]	15616
t_TrqLOA_X_Kph_u10p6[4]	15680
t_TrqLOA_X_Kph_u10p6[5]	15744
t_TrqLOA_X_Kph_u10p6[6]	15808
t_TrqLOA_X_Kph_u10p6[7]	15872
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-6.56730986		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	446.730835		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	149.9048		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	388.930298		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.567783773	0.567783773	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.533536494	0.533536434 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.205618978	0.205618933 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.83 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.600000024	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0540000014	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.57816553	
TrqLOA_TloaCmd_MtrNm_M_f32	-1	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.0165567994	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	0.0350674987	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	871.700928	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-30.0435162	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	13.7316875	
k_TrqLOA_FallingRampRate_UlspS_f32	-406.617493	
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.70052624	
k_TrqLOA_LimOutput_MtrNm_f32	0.519612968	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	0.756676316	
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.363540441	
k_TrqLOA_RisingRampRate_UlspS_f32	378.26651	
k_TrqLOA_SteerRatio_Uls_f32	84.6550903	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	12.7986794	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655	

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226		
t_TrqLOA_DiffGainX_G_u2p14[0]	328		
t_TrqLOA_DiffGainX_G_u2p14[1]	1229		
t_TrqLOA_DiffGainX_G_u2p14[2]	2458		
t_TrqLOA_DiffGainX_G_u2p14[3]	3113		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	1280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	1600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61440		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166		
t_TrqLOA_X_Kph_u10p6[0]	15936		
t_TrqLOA_X_Kph_u10p6[1]	16000		
t_TrqLOA_X_Kph_u10p6[2]	16064		
t_TrqLOA_X_Kph_u10p6[3]	16128		
t_TrqLOA_X_Kph_u10p6[4]	16192		
t_TrqLOA_X_Kph_u10p6[5]	16256		
t_TrqLOA_X_Kph_u10p6[6]	16320		
t_TrqLOA_X_Kph_u10p6[7]	16384		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1138.91357		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-880.585693		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	451.074432		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.939912975	0.939912975	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.52960062	0.52960062 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-2.87247229	-2.87247229 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.519612968	-0.519612968 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.739976227	0.739976227 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.519612968	-0.519612968 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.84 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.649999976
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0544999987
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-8.16542625
TrqLOA_TloaCmd_MtrNm_M_f32	-0.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.20458698
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	394.782104
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-11.6488876
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	81.607048
k_TrqLOA_FallingRampRate_UlspS_f32	-930.11261
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.80764484
k_TrqLOA_LimOutput_MtrNm_f32	1.0901581
k_TrqLOA_MaxScaleFactor_Uls_f32	0.647754431
k_TrqLOA_MinScaleFactor_Uls_f32	0.862379551
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.549903929
k_TrqLOA_RisingRampRate_UlspS_f32	990.779175
k_TrqLOA_SteerRatio_Uls_f32	34.4749832
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0220634043
k_TrqLOA_Wheelbase_M_f32	10.8809481
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096
t_TrqLOA_DiffGainX_G_u2p14[2]	4751
t_TrqLOA_DiffGainX_G_u2p14[3]	4915
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	1920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	2240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	2560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	2880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	3200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986		
t_TrqLOA_X_Kph_u10p6[0]	16448		
t_TrqLOA_X_Kph_u10p6[1]	16512		
t_TrqLOA_X_Kph_u10p6[2]	16576		
t_TrqLOA_X_Kph_u10p6[3]	16640		
t_TrqLOA_X_Kph_u10p6[4]	16704		
t_TrqLOA_X_Kph_u10p6[5]	16768		
t_TrqLOA_X_Kph_u10p6[6]	16832		
t_TrqLOA_X_Kph_u10p6[7]	16896		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.14655781		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1073.65491		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-174.705765		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	35.7357788		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.976702213	0.976702213	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.61021328	0.610213339 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.647754431	0.647754431 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.85 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.526905656			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0549999997			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.30688953			
TrqLOA_TloaCmd_MtrNm_M_f32	0			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.70597506			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.76176262			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	301.494141			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-47.2110062			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	43.7765656			
k_TrqLOA_FallingRampRate_UlspS_f32	-748.771301			
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.42878771			
k_TrqLOA_LimOutput_MtrNm_f32	1.08144009			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.525616527			
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.05261755			
k_TrqLOA_RisingRampRate_UlspS_f32	540.796814			
k_TrqLOA_SteerRatio_Uls_f32	60.2533417			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	12.1284971			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	5079
t_TrqLOA_DiffGainX_G_u2p14[1]	6062
t_TrqLOA_DiffGainX_G_u2p14[2]	6390
t_TrqLOA_DiffGainX_G_u2p14[3]	6554
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	3520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	3840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	4160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	4480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	4800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805
t_TrqLOA_X_Kph_u10p6[0]	0
t_TrqLOA_X_Kph_u10p6[1]	0
t_TrqLOA_X_Kph_u10p6[2]	0
t_TrqLOA_X_Kph_u10p6[3]	0
t_TrqLOA_X_Kph_u10p6[4]	0
t_TrqLOA_X_Kph_u10p6[5]	0
t_TrqLOA_X_Kph_u10p6[6]	0
t_TrqLOA_X_Kph_u10p6[7]	0
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc



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Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.0452584028		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.33281803		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1279.70117		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-763.383301		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	16.4704895		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.432483643	0.432483643	✔
TrqLOA_LatAccelSV_g_m_Str.SV_Uls_f32	0.0924502239	0.0924502164 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.525616527	0.525616527 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.86 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.454035282			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0555000007			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-4.2971797			
TrqLOA_TloaCmd_MtrNm_M_f32	0.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.0378806591			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	1.20553124			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	85.9290466			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-5.70244408			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	57.5687294			
k_TrqLOA_FallingRampRate_UlspS_f32	-190.925446			
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.856612802			
k_TrqLOA_LimOutput_MtrNm_f32	5.18634176			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.44656372			
k_TrqLOA_RisingRampRate_UlspS_f32	168.014526			
k_TrqLOA_SteerRatio_Uls_f32	100			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	20			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763			

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661		
t_TrqLOA_DiffGainX_G_u2p14[0]	6881		
t_TrqLOA_DiffGainX_G_u2p14[1]	7864		
t_TrqLOA_DiffGainX_G_u2p14[2]	8520		
t_TrqLOA_DiffGainX_G_u2p14[3]	9830		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	5120		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	5440		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	5760		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	6080		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	6400		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624		
t_TrqLOA_X_Kph_u10p6[0]	25600		
t_TrqLOA_X_Kph_u10p6[1]	25600		
t_TrqLOA_X_Kph_u10p6[2]	25600		
t_TrqLOA_X_Kph_u10p6[3]	25600		
t_TrqLOA_X_Kph_u10p6[4]	25600		
t_TrqLOA_X_Kph_u10p6[5]	25600		
t_TrqLOA_X_Kph_u10p6[6]	25600		
t_TrqLOA_X_Kph_u10p6[7]	25600		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.98322487		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1615.12988		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-707.800293		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	510.110107		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.519989014	0.519989014	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.115281835	0.115281828 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.152473509	-0.15247348 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.152473509	-0.15247348 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.298148423	0.298148394 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.152473509	-0.15247348 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.87 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0560000017
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-8.33610821
TrqLOA_TloaCmd_MtrNm_M_f32	1
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.851540387
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.5908401
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	404.598846
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-16.7572479
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	31.2275734
k_TrqLOA_FallingRampRate_UlspS_f32	-978.38501
k_TrqLOA_LatAccConversionFactor_Uls_f32	6.24312687
k_TrqLOA_LimOutput_MtrNm_f32	2.07289386
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.69596291
k_TrqLOA_RisingRampRate_UlspS_f32	135.736816
k_TrqLOA_SteerRatio_Uls_f32	93.4940491
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	3.27910423
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	8684
t_TrqLOA_DiffGainX_G_u2p14[1]	9667
t_TrqLOA_DiffGainX_G_u2p14[2]	10650
t_TrqLOA_DiffGainX_G_u2p14[3]	13107
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	6720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	7040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	7360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	7680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	8000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443		
t_TrqLOA_X_Kph_u10p6[0]	17984		
t_TrqLOA_X_Kph_u10p6[1]	18048		
t_TrqLOA_X_Kph_u10p6[2]	18112		
t_TrqLOA_X_Kph_u10p6[3]	18176		
t_TrqLOA_X_Kph_u10p6[4]	18240		
t_TrqLOA_X_Kph_u10p6[5]	18304		
t_TrqLOA_X_Kph_u10p6[6]	18368		
t_TrqLOA_X_Kph_u10p6[7]	18432		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.20080757		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	854.247864		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-370.513214		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	121.660004		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.9664855	0.9664855	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.174875259	0.174875259 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.580066741	-0.580066741 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.88 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.056499999			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-2.02841663			
TrqLOA_TloaCmd_MtrNm_M_f32	1.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.587380052			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	10			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	870.603333			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-77.8179932			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	8.33252239			
k_TrqLOA_FallingRampRate_UlspS_f32	-836.30304			
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.94236755			
k_TrqLOA_LimOutput_MtrNm_f32	7.69696569			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.534538507			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.24155235			
k_TrqLOA_RisingRampRate_UlspS_f32	618.881165			
k_TrqLOA_SteerRatio_Uls_f32	65.6973495			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	19.3650894			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655			

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	10486
t_TrqLOA_DiffGainX_G_u2p14[1]	11469
t_TrqLOA_DiffGainX_G_u2p14[2]	12780
t_TrqLOA_DiffGainX_G_u2p14[3]	16384
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	8320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	8640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	8960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	9280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	9600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262
t_TrqLOA_X_Kph_u10p6[0]	18496
t_TrqLOA_X_Kph_u10p6[1]	18560
t_TrqLOA_X_Kph_u10p6[2]	18624
t_TrqLOA_X_Kph_u10p6[3]	18688
t_TrqLOA_X_Kph_u10p6[4]	18752
t_TrqLOA_X_Kph_u10p6[5]	18816
t_TrqLOA_X_Kph_u10p6[6]	18880
t_TrqLOA_X_Kph_u10p6[7]	18944
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.86052227		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.73842812		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-879.002319		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	982.454895		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	25.6040649		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.0166650452	0.0166650433	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.239557073	0.239557073 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.65038228	0.650382221 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.89 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.057			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.0367079154			
TrqLOA_TloaCmd_MtrNm_M_f32	2			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.08809543			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.15189934			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	899.73584			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-47.5227737			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	48.2107315			
k_TrqLOA_FallingRampRate_UlspS_f32	-920.471436			
k_TrqLOA_LatAccConversionFactor_Uls_f32	6.26204729			
k_TrqLOA_LimOutput_MtrNm_f32	8.71106529			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.624129891			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.76092386			
k_TrqLOA_RisingRampRate_UlspS_f32	200.202011			
k_TrqLOA_SteerRatio_Uls_f32	18.3684654			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.12909539			
k_TrqLOA_Wheelbase_M_f32	11.024827			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554			

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830		
t_TrqLOA_DiffGainX_G_u2p14[0]	12288		
t_TrqLOA_DiffGainX_G_u2p14[1]	13271		
t_TrqLOA_DiffGainX_G_u2p14[2]	14909		
t_TrqLOA_DiffGainX_G_u2p14[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	30310		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29082		
t_TrqLOA_X_Kph_u10p6[0]	19008		
t_TrqLOA_X_Kph_u10p6[1]	19072		
t_TrqLOA_X_Kph_u10p6[2]	19136		
t_TrqLOA_X_Kph_u10p6[3]	19200		
t_TrqLOA_X_Kph_u10p6[4]	19264		
t_TrqLOA_X_Kph_u10p6[5]	19328		
t_TrqLOA_X_Kph_u10p6[6]	19392		
t_TrqLOA_X_Kph_u10p6[7]	19456		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	4.49196005		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1114.62451		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	209.250259		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	97.9906311		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.904954433	0.904954433	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.324104011	0.324103981 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔



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## Test Step 2.90 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.5
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.349999994
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.057500001
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-4.81868219
TrqLOA_TloaCmd_MtrNm_M_f32	2.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.845299244
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.57784653
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	472.337891
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-90.0598679
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	8.68444347
k_TrqLOA_FallingRampRate_UlspS_f32	-755.761414
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.26955414
k_TrqLOA_LimOutput_MtrNm_f32	0.397318661
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	3.62188888
k_TrqLOA_RisingRampRate_UlspS_f32	803.915405
k_TrqLOA_SteerRatio_Uls_f32	96.2621002
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	17.511282
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	14090
t_TrqLOA_DiffGainX_G_u2p14[1]	15073
t_TrqLOA_DiffGainX_G_u2p14[2]	17039
t_TrqLOA_DiffGainX_G_u2p14[3]	22938
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	11520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	11840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	12160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	12480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	12800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901		
t_TrqLOA_X_Kph_u10p6[0]	19520		
t_TrqLOA_X_Kph_u10p6[1]	19584		
t_TrqLOA_X_Kph_u10p6[2]	19648		
t_TrqLOA_X_Kph_u10p6[3]	19712		
t_TrqLOA_X_Kph_u10p6[4]	19776		
t_TrqLOA_X_Kph_u10p6[5]	19840		
t_TrqLOA_X_Kph_u10p6[6]	19904		
t_TrqLOA_X_Kph_u10p6[7]	19968		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1499.44763		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-449.797333		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	240.174683		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.319880247	0.319880277	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.313625991	0.313626021 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.00994124915	-0.00994118024 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.00994124915	-0.00994118024 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.00994124915	-0.00994118024 ± 0.01	✔

Test Step 2.91 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.129279494			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0579999983			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.135285273			
TrqLOA_TloaCmd_MtrNm_M_f32	3			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.660296857			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.59572077			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	960.220276			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-100			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	6.87579203			
k_TrqLOA_FallingRampRate_UlspS_f32	-798.818298			
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.59114337			
k_TrqLOA_LimOutput_MtrNm_f32	3.79040265			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.416683078			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.11925507			
k_TrqLOA_RisingRampRate_UlspS_f32	636.934875			
k_TrqLOA_SteerRatio_Uls_f32	23.6102524			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.050837025			
k_TrqLOA_Wheelbase_M_f32	16.4986668			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	15892
t_TrqLOA_DiffGainX_G_u2p14[1]	16876
t_TrqLOA_DiffGainX_G_u2p14[2]	19169
t_TrqLOA_DiffGainX_G_u2p14[3]	26214
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	13120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	13440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	13760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	14080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	14400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	12288
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	25805
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	27443
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	32768
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	30720
t_TrqLOA_X_Kph_u10p6[0]	20032
t_TrqLOA_X_Kph_u10p6[1]	20096
t_TrqLOA_X_Kph_u10p6[2]	20160
t_TrqLOA_X_Kph_u10p6[3]	20224
t_TrqLOA_X_Kph_u10p6[4]	20288
t_TrqLOA_X_Kph_u10p6[5]	20352
t_TrqLOA_X_Kph_u10p6[6]	20416
t_TrqLOA_X_Kph_u10p6[7]	20480
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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Name	Input Value
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.99093819
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1006.96851
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-166.982742
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	111.591278

Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.143031076	0.143031076	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.344146997	0.344146967 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.92 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.255068064	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.449999988	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0584999993	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-6.31325054	
TrqLOA_TloaCmd_MtrNm_M_f32	3.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.35702264	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.46745205	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	315.445374	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	0	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	13.651783	
k_TrqLOA_FallingRampRate_UlspS_f32	-583.929688	
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.662795782	
k_TrqLOA_LimOutput_MtrNm_f32	3.74312067	
k_TrqLOA_MaxScaleFactor_Uls_f32	0.670689344	
k_TrqLOA_MinScaleFactor_Uls_f32	1	
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.77387238	
k_TrqLOA_RisingRampRate_UlspS_f32	146.835037	
k_TrqLOA_SteerRatio_Uls_f32	52.2286301	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	14.1650209	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367	

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214		
t_TrqLOA_DiffGainX_G_u2p14[0]	17695		
t_TrqLOA_DiffGainX_G_u2p14[1]	18678		
t_TrqLOA_DiffGainX_G_u2p14[2]	21299		
t_TrqLOA_DiffGainX_G_u2p14[3]	29491		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	28262		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	33997		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	31539		
t_TrqLOA_X_Kph_u10p6[0]	20544		
t_TrqLOA_X_Kph_u10p6[1]	20608		
t_TrqLOA_X_Kph_u10p6[2]	20672		
t_TrqLOA_X_Kph_u10p6[3]	20736		
t_TrqLOA_X_Kph_u10p6[4]	20800		
t_TrqLOA_X_Kph_u10p6[5]	20864		
t_TrqLOA_X_Kph_u10p6[6]	20928		
t_TrqLOA_X_Kph_u10p6[7]	20992		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.925960064		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.88921642		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-690.256348		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-59.5044174		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	83.4352417		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.28237164	0.28237164	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.42138809	0.42138809 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.06335258	-1.06335258 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

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TrqLOA\_Per1

Test Step 2.93 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.566056848
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0590000004
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-8.7202425
TrqLOA_TloaCmd_MtrNm_M_f32	4
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.6505841
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.63869667
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	481.34079
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-50.5
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	58.7112007
k_TrqLOA_FallingRampRate_UlspS_f32	-797.56189
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.5323295
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.407372
k_TrqLOA_RisingRampRate_UlspS_f32	773.946106
k_TrqLOA_SteerRatio_Uls_f32	53.1349716
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	10.3741779
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	328
t_TrqLOA_DiffGainX_G_u2p14[1]	1229
t_TrqLOA_DiffGainX_G_u2p14[2]	2458
t_TrqLOA_DiffGainX_G_u2p14[3]	3113
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13926		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	35226		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	32358		
t_TrqLOA_X_Kph_u10p6[0]	21056		
t_TrqLOA_X_Kph_u10p6[1]	21120		
t_TrqLOA_X_Kph_u10p6[2]	21184		
t_TrqLOA_X_Kph_u10p6[3]	21248		
t_TrqLOA_X_Kph_u10p6[4]	21312		
t_TrqLOA_X_Kph_u10p6[5]	21376		
t_TrqLOA_X_Kph_u10p6[6]	21440		
t_TrqLOA_X_Kph_u10p6[7]	21504		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.7069453		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.23353577		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1729.34595		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-873.518066		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	481.622101		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.465056837	0.465056837	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.404291272	0.404291272 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.10269177	-0.102691986 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target TrqLOA Per1 TrqLOACmd MtrNm f32.value	-0	0 ± 0.01	

## Test Step 2.94 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.853895903
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.649999976
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0604999997
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-8.17680073
TrqLOA_TloaCmd_MtrNm_M_f32	-8.80000019
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.05647099
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	0.512650967
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	725.99292
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-13.2423515
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	61.5206985
k_TrqLOA_FallingRampRate_UlspS_f32	-610.38031
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.95821857
k_TrqLOA_LimOutput_MtrNm_f32	8.15451336
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	3.30371237
k_TrqLOA_RisingRampRate_UlspS_f32	337.182373
k_TrqLOA_SteerRatio_Uls_f32	20.3444614
k_TrqLOA_UndersteerGrad_RadpG_f32	0.245641321
k_TrqLOA_Wheelbase_M_f32	5.30176973
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554



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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096
t_TrqLOA_DiffGainX_G_u2p14[2]	4751
t_TrqLOA_DiffGainX_G_u2p14[3]	4915
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528
t_TrqLOA_X_Kph_u10p6[0]	21568
t_TrqLOA_X_Kph_u10p6[1]	21632
t_TrqLOA_X_Kph_u10p6[2]	21696
t_TrqLOA_X_Kph_u10p6[3]	21760
t_TrqLOA_X_Kph_u10p6[4]	21824
t_TrqLOA_X_Kph_u10p6[5]	21888
t_TrqLOA_X_Kph_u10p6[6]	21952
t_TrqLOA_X_Kph_u10p6[7]	22016
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.111186981		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	5.03819704		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1083.06836		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	891.086304		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	150.260559		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.827411175	0.827411175	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.778555155	0.778555155 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.382106185	-0.382106274 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.95 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.820842862			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0610000007			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.689402282			
TrqLOA_TloaCmd_MtrNm_M_f32	8.80000019			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.40844035			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	0.814378321			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	626.317505			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-20.6574211			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	38.2228584			
k_TrqLOA_FallingRampRate_UlspS_f32	-506.817291			
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.60301948			
k_TrqLOA_LimOutput_MtrNm_f32	1.56273842			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.758953691			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.133917198			
k_TrqLOA_RisingRampRate_UlspS_f32	36.966835			
k_TrqLOA_SteerRatio_Uls_f32	91.9759598			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0435394794			
k_TrqLOA_Wheelbase_M_f32	12.1447191			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158			

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107		
t_TrqLOA_DiffGainX_G_u2p14[0]	5079		
t_TrqLOA_DiffGainX_G_u2p14[1]	6062		
t_TrqLOA_DiffGainX_G_u2p14[2]	6390		
t_TrqLOA_DiffGainX_G_u2p14[3]	6554		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	19520		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	19840		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	20160		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	20480		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	20800		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347		
t_TrqLOA_X_Kph_u10p6[0]	22080		
t_TrqLOA_X_Kph_u10p6[1]	22144		
t_TrqLOA_X_Kph_u10p6[2]	22208		
t_TrqLOA_X_Kph_u10p6[3]	22272		
t_TrqLOA_X_Kph_u10p6[4]	22336		
t_TrqLOA_X_Kph_u10p6[5]	22400		
t_TrqLOA_X_Kph_u10p6[6]	22464		
t_TrqLOA_X_Kph_u10p6[7]	22528		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.48769033		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	4.00134468		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	44.0692482		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-453.635742		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	352.271149		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.779528022	0.779528022	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	9.90182161e-005	9.89999971e-005 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.33450663	-1.33450663 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0	0 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.96 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.0248603821
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0615000017
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.339883894
TrqLOA_TloaCmd_MtrNm_M_f32	5.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	6.36726522
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	911.841431
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-74.932785
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	44.4180794
k_TrqLOA_FallingRampRate_UlspS_f32	-766.490967
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.63106155
k_TrqLOA_LimOutput_MtrNm_f32	4.86935091
k_TrqLOA_MaxScaleFactor_Uls_f32	0.750078678
k_TrqLOA_MinScaleFactor_Uls_f32	0.230521441
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019
k_TrqLOA_RisingRampRate_UlspS_f32	815.11554
k_TrqLOA_SteerRatio_Uls_f32	12.7931366
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	4.11181211
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	6881
t_TrqLOA_DiffGainX_G_u2p14[1]	7864
t_TrqLOA_DiffGainX_G_u2p14[2]	8520
t_TrqLOA_DiffGainX_G_u2p14[3]	9830
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	21120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	21440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	21760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	22080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	22400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166		
t_TrqLOA_X_Kph_u10p6[0]	22592		
t_TrqLOA_X_Kph_u10p6[1]	22656		
t_TrqLOA_X_Kph_u10p6[2]	22720		
t_TrqLOA_X_Kph_u10p6[3]	22784		
t_TrqLOA_X_Kph_u10p6[4]	22848		
t_TrqLOA_X_Kph_u10p6[5]	22912		
t_TrqLOA_X_Kph_u10p6[6]	22976		
t_TrqLOA_X_Kph_u10p6[7]	23040		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.06545424		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1268.74792		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-652.664185		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	408.58313		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.113696545	0.113696545	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	-0.075556621	-0.0755565986 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.219296321	-0.219296351 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.219296321	-0.219296351 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.467018008	0.467018098 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.219296321	-0.219296351 ± 0.01	✔

Test Step 2.97 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.473232627		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.061999999		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.3724966		
TrqLOA_TloaCmd_MtrNm_M_f32	0		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.422920167		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.39689827		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	283.463959		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-67.6074982		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	33.8648224		
k_TrqLOA_FallingRampRate_UlspS_f32	-953.82843		
k_TrqLOA_LatAccConversionFactor_Uls_f32	10		
k_TrqLOA_LimOutput_MtrNm_f32	6.99315357		
k_TrqLOA_MaxScaleFactor_Uls_f32	1		
k_TrqLOA_MinScaleFactor_Uls_f32	1		
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019		
k_TrqLOA_RisingRampRate_UlspS_f32	537.350464		
k_TrqLOA_SteerRatio_Uls_f32	11.9565916		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.190257654		
k_TrqLOA_Wheelbase_M_f32	15.0664587		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367		

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	8684
t_TrqLOA_DiffGainX_G_u2p14[1]	9667
t_TrqLOA_DiffGainX_G_u2p14[2]	10650
t_TrqLOA_DiffGainX_G_u2p14[3]	13107
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	22720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	23040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	23360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	23680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	24000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986
t_TrqLOA_X_Kph_u10p6[0]	23104
t_TrqLOA_X_Kph_u10p6[1]	23168
t_TrqLOA_X_Kph_u10p6[2]	23232
t_TrqLOA_X_Kph_u10p6[3]	23296
t_TrqLOA_X_Kph_u10p6[4]	23360
t_TrqLOA_X_Kph_u10p6[5]	23424
t_TrqLOA_X_Kph_u10p6[6]	23488
t_TrqLOA_X_Kph_u10p6[7]	23552
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.12183249		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-9.55003071		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1979.64465		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	12.6925011		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	140.615936		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.540962279	0.540962279	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.191600814	0.191600814 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.98 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.821841478	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0625	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-4.27574492	
TrqLOA_TloaCmd_MtrNm_M_f32	5.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	10	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	920.951111	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-83.8934708	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	85.6148682	
k_TrqLOA_FallingRampRate_UlspS_f32	-57.8031731	
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.28598976	
k_TrqLOA_LimOutput_MtrNm_f32	7.97832537	
k_TrqLOA_MaxScaleFactor_Uls_f32	0.560720205	
k_TrqLOA_MinScaleFactor_Uls_f32	0.692810535	
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.78577137	
k_TrqLOA_RisingRampRate_UlspS_f32	143.039902	
k_TrqLOA_SteerRatio_Uls_f32	23.3712559	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	10.1034899	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655	



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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226		
t_TrqLOA_DiffGainX_G_u2p14[0]	10486		
t_TrqLOA_DiffGainX_G_u2p14[1]	11469		
t_TrqLOA_DiffGainX_G_u2p14[2]	12780		
t_TrqLOA_DiffGainX_G_u2p14[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805		
t_TrqLOA_X_Kph_u10p6[0]	23616		
t_TrqLOA_X_Kph_u10p6[1]	23680		
t_TrqLOA_X_Kph_u10p6[2]	23744		
t_TrqLOA_X_Kph_u10p6[3]	23808		
t_TrqLOA_X_Kph_u10p6[4]	23872		
t_TrqLOA_X_Kph_u10p6[5]	23936		
t_TrqLOA_X_Kph_u10p6[6]	24000		
t_TrqLOA_X_Kph_u10p6[7]	24064		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.780582905		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1763.45972		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-312.254303		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	185.611267		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.654054523	0.654054523	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.183643296	0.183643296 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.824145436	-0.824145436 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.824145436	-0.824145436 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.88439369	1.88439369 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.824145436	-0.824145436 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.99 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.063000001
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.724759221
TrqLOA_TloaCmd_MtrNm_M_f32	7
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.29603338
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.3990984
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	436.613129
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-83.6676788
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	40.5314102
k_TrqLOA_FallingRampRate_UlspS_f32	-56.7299957
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.13330269
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019
k_TrqLOA_MaxScaleFactor_Uls_f32	0.785330892
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.288960457
k_TrqLOA_RisingRampRate_UlspS_f32	191.476471
k_TrqLOA_SteerRatio_Uls_f32	81.1621704
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	16.883234
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	12288
t_TrqLOA_DiffGainX_G_u2p14[1]	13271
t_TrqLOA_DiffGainX_G_u2p14[2]	14909
t_TrqLOA_DiffGainX_G_u2p14[3]	19661
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	11520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	11840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	12160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	12480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	12800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624		
t_TrqLOA_X_Kph_u10p6[0]	24128		
t_TrqLOA_X_Kph_u10p6[1]	24192		
t_TrqLOA_X_Kph_u10p6[2]	24256		
t_TrqLOA_X_Kph_u10p6[3]	24320		
t_TrqLOA_X_Kph_u10p6[4]	24384		
t_TrqLOA_X_Kph_u10p6[5]	24448		
t_TrqLOA_X_Kph_u10p6[6]	24512		
t_TrqLOA_X_Kph_u10p6[7]	24576		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.72999084		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.90970612		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1081.84827		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	26.4038925		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	375.344025		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.832664609	0.832664669	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.00134866394	0.00134866405 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.18257344	1.18257344 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.100 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.670000017			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.063500002			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	6.18846893			
TrqLOA_TloaCmd_MtrNm_M_f32	7.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.72223473			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	545.694092			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-45.7611389			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	40.9692307			
k_TrqLOA_FallingRampRate_UlspS_f32	-181.958633			
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.12441492			
k_TrqLOA_LimOutput_MtrNm_f32	1.73804796			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.10569954			
k_TrqLOA_RisingRampRate_UlspS_f32	884.589783			
k_TrqLOA_SteerRatio_Uls_f32	75.4346848			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	19.5902386			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158			

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	14090
t_TrqLOA_DiffGainX_G_u2p14[1]	15073
t_TrqLOA_DiffGainX_G_u2p14[2]	17039
t_TrqLOA_DiffGainX_G_u2p14[3]	22938
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	13120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	13440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	13760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	14080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	14400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443
t_TrqLOA_X_Kph_u10p6[0]	24640
t_TrqLOA_X_Kph_u10p6[1]	24704
t_TrqLOA_X_Kph_u10p6[2]	24768
t_TrqLOA_X_Kph_u10p6[3]	24832
t_TrqLOA_X_Kph_u10p6[4]	24896
t_TrqLOA_X_Kph_u10p6[5]	24960
t_TrqLOA_X_Kph_u10p6[6]	25024
t_TrqLOA_X_Kph_u10p6[7]	25088
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.979789495		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-5.07149601		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1365.74438		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-206.586578		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	79.989502		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.908477724	0.908477724	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.622706652	0.622706652 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.63608265	1.63608277 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.101 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.965166926			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.330000013			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.064000003			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.01082706			
TrqLOA_TloaCmd_MtrNm_M_f32	8			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.17187524			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	1.75459635			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	433.937439			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-54.2950287			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	59.0309486			
k_TrqLOA_FallingRampRate_UlspS_f32	-253.557938			
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.79567754			
k_TrqLOA_LimOutput_MtrNm_f32	7.68047094			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.682921767			
k_TrqLOA_MinScaleFactor_Uls_f32	0.51321137			
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.61406374			
k_TrqLOA_RisingRampRate_UlspS_f32	982.168213			
k_TrqLOA_SteerRatio_Uls_f32	58.4313583			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	7.67427111			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763			

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661		
t_TrqLOA_DiffGainX_G_u2p14[0]	15892		
t_TrqLOA_DiffGainX_G_u2p14[1]	16876		
t_TrqLOA_DiffGainX_G_u2p14[2]	19169		
t_TrqLOA_DiffGainX_G_u2p14[3]	26214		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262		
t_TrqLOA_X_Kph_u10p6[0]	64		
t_TrqLOA_X_Kph_u10p6[1]	128		
t_TrqLOA_X_Kph_u10p6[2]	192		
t_TrqLOA_X_Kph_u10p6[3]	256		
t_TrqLOA_X_Kph_u10p6[4]	320		
t_TrqLOA_X_Kph_u10p6[5]	384		
t_TrqLOA_X_Kph_u10p6[6]	448		
t_TrqLOA_X_Kph_u10p6[7]	512		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.311326146		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.34641546		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	954.816956		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-480.879883		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	496.52182		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.85657686	0.85657686	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.272681743	0.272681743 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.664759338	0.664759278 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.102 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.719573736
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.449999988
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0644999966
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.84906077
TrqLOA_TloaCmd_MtrNm_M_f32	-8
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.46470165
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	560.686218
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-98.0630569
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	91.9077454
k_TrqLOA_FallingRampRate_UlspS_f32	-260.966858
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.11684418
k_TrqLOA_LimOutput_MtrNm_f32	5.08614922
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.511231422
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.20072651
k_TrqLOA_RisingRampRate_UlspS_f32	102.115242
k_TrqLOA_SteerRatio_Uls_f32	5.74871397
k_TrqLOA_UndersteerGrad_RadpG_f32	0
k_TrqLOA_Wheelbase_M_f32	2.2757802
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	17695
t_TrqLOA_DiffGainX_G_u2p14[1]	18678
t_TrqLOA_DiffGainX_G_u2p14[2]	21299
t_TrqLOA_DiffGainX_G_u2p14[3]	29491
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934



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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	30310		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29082		
t_TrqLOA_X_Kph_u10p6[0]	576		
t_TrqLOA_X_Kph_u10p6[1]	640		
t_TrqLOA_X_Kph_u10p6[2]	704		
t_TrqLOA_X_Kph_u10p6[3]	768		
t_TrqLOA_X_Kph_u10p6[4]	832		
t_TrqLOA_X_Kph_u10p6[5]	896		
t_TrqLOA_X_Kph_u10p6[6]	960		
t_TrqLOA_X_Kph_u10p6[7]	1024		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.948918343		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.35726833		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1339.45154		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-865.268372		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	111.518616		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.529998779	0.529998779	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	-6.86314344	-6.86314487 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.12886703	-1.12886703 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-1.12886703	-1.12886703 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.47806621	1.47806633 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-1.12886703	-1.12886703 ± 0.01	✔

Test Step 2.103 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0649999976			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	3.17089868			
TrqLOA_TloaCmd_MtrNm_M_f32	-7.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.714851201			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.47531605			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	493.191315			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-93.2124023			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	3.52900672			
k_TrqLOA_FallingRampRate_UlspS_f32	-885.932068			
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.64222908			
k_TrqLOA_LimOutput_MtrNm_f32	3.30777383			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.14297307			
k_TrqLOA_RisingRampRate_UlspS_f32	687.914795			
k_TrqLOA_SterRatio_Uls_f32	93.624527			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	12.5041809			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	328
t_TrqLOA_DiffGainX_G_u2p14[1]	1229
t_TrqLOA_DiffGainX_G_u2p14[2]	2458
t_TrqLOA_DiffGainX_G_u2p14[3]	3113
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901
t_TrqLOA_X_Kph_u10p6[0]	1088
t_TrqLOA_X_Kph_u10p6[1]	1152
t_TrqLOA_X_Kph_u10p6[2]	1216
t_TrqLOA_X_Kph_u10p6[3]	1280
t_TrqLOA_X_Kph_u10p6[4]	1344
t_TrqLOA_X_Kph_u10p6[5]	1408
t_TrqLOA_X_Kph_u10p6[6]	1472
t_TrqLOA_X_Kph_u10p6[7]	1536
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.514535308		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.531552732		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1098.22021		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	282.88974		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	304.746979		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.813575208	0.813575208	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.480332762	0.480332762 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.104 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.622601509			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0654999986			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.16161966			
TrqLOA_TloaCmd_MtrNm_M_f32	-7			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	0.333182216			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	695.859253			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-37.716568			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	29.5977783			
k_TrqLOA_FallingRampRate_UlspS_f32	-135.023148			
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.41816854			
k_TrqLOA_LimOutput_MtrNm_f32	7.3144207			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.72124815			
k_TrqLOA_MinScaleFactor_Uls_f32	0.341758966			
k_TrqLOA_NomDrvTrq_MtrNm_f32	3.29703116			
k_TrqLOA_RisingRampRate_UlspS_f32	526.531982			
k_TrqLOA_SteerRatio_Uls_f32	84.263443			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.150000006			
k_TrqLOA_Wheelbase_M_f32	18.9389439			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554			

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830		
t_TrqLOA_DiffGainX_G_u2p14[0]	3277		
t_TrqLOA_DiffGainX_G_u2p14[1]	4096		
t_TrqLOA_DiffGainX_G_u2p14[2]	4751		
t_TrqLOA_DiffGainX_G_u2p14[3]	4915		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	12288		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	32768		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	30720		
t_TrqLOA_X_Kph_u10p6[0]	1600		
t_TrqLOA_X_Kph_u10p6[1]	1664		
t_TrqLOA_X_Kph_u10p6[2]	1728		
t_TrqLOA_X_Kph_u10p6[3]	1792		
t_TrqLOA_X_Kph_u10p6[4]	1856		
t_TrqLOA_X_Kph_u10p6[5]	1920		
t_TrqLOA_X_Kph_u10p6[6]	1984		
t_TrqLOA_X_Kph_u10p6[7]	2048		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-186.463074		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-270.124939		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	274.40564		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.547168374	0.547168374	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.493835986	0.493835956 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.72995377	1.72995365 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

Test Step 2.105 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.600000024
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0659999996
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.47555137
TrqLOA_TloaCmd_MtrNm_M_f32	-6.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.0452389121
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.15295506
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	274.993073
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-92.4099426
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	0
k_TrqLOA_FallingRampRate_UlspS_f32	-830.102417
k_TrqLOA_LatAccConversionFactor_Uls_f32	4.17782021
k_TrqLOA_LimOutput_MtrNm_f32	1.11741638
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.8299619
k_TrqLOA_RisingRampRate_UlspS_f32	914.820435
k_TrqLOA_SteerRatio_Uls_f32	18.2976189
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	15.1185112
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	5079
t_TrqLOA_DiffGainX_G_u2p14[1]	6062
t_TrqLOA_DiffGainX_G_u2p14[2]	6390
t_TrqLOA_DiffGainX_G_u2p14[3]	6554
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	28262		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	33997		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	31539		
t_TrqLOA_X_Kph_u10p6[0]	2112		
t_TrqLOA_X_Kph_u10p6[1]	2176		
t_TrqLOA_X_Kph_u10p6[2]	2240		
t_TrqLOA_X_Kph_u10p6[3]	2304		
t_TrqLOA_X_Kph_u10p6[4]	2368		
t_TrqLOA_X_Kph_u10p6[5]	2432		
t_TrqLOA_X_Kph_u10p6[6]	2496		
t_TrqLOA_X_Kph_u10p6[7]	2560		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-5.20841312		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-972.272766		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	93.2276306		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	93.398407		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.815180123	0.815180123	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.572879255	0.572879195 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.077738896	0.0777388886 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.077738896	0.0777388886 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.077738896	0.0777388886 ± 0.01	✔

Test Step 2.106 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.461277246			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.649999976			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0665000007			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	7.03820419			
TrqLOA_TloaCmd_MtrNm_M_f32	-6			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.12805974			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.32602096			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	413.116211			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-17.5247154			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	100			
k_TrqLOA_FallingRampRate_UlspS_f32	-977.869324			
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.60520649			
k_TrqLOA_LimOutput_MtrNm_f32	6.52711916			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.717261076			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.433354557			
k_TrqLOA_RisingRampRate_UlspS_f32	975.972412			
k_TrqLOA_SteerRatio_Uls_f32	92.0923157			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	9.59699059			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	6881
t_TrqLOA_DiffGainX_G_u2p14[1]	7864
t_TrqLOA_DiffGainX_G_u2p14[2]	8520
t_TrqLOA_DiffGainX_G_u2p14[3]	9830
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13926
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	22938
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	27443
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	29082
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	35226
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	32358
t_TrqLOA_X_Kph_u10p6[0]	2624
t_TrqLOA_X_Kph_u10p6[1]	2688
t_TrqLOA_X_Kph_u10p6[2]	2752
t_TrqLOA_X_Kph_u10p6[3]	2816
t_TrqLOA_X_Kph_u10p6[4]	2880
t_TrqLOA_X_Kph_u10p6[5]	2944
t_TrqLOA_X_Kph_u10p6[6]	3008
t_TrqLOA_X_Kph_u10p6[7]	3072
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc



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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.312604427		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.27199745		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-712.291748		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	764.181824		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	396.513855		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.600006104	0.600006104	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.644139349	0.644139409 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.34314823	2.34314775 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	2.34314823	2.34314775 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.823885202	0.823885024 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	2.34314823	2.34314775 ± 0.01	✔

Test Step 2.107 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0670000017			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.0685558468			
TrqLOA_TloaCmd_MtrNm_M_f32	-5.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	10			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	56.3604622			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-6.15822935			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	47.5			
k_TrqLOA_FallingRampRate_UlspS_f32	-154.366959			
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.79777288			
k_TrqLOA_LimOutput_MtrNm_f32	7.17944431			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.191684842			
k_TrqLOA_MinScaleFactor_Uls_f32	0.152980685			
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.2541213			
k_TrqLOA_RisingRampRate_UlspS_f32	305.152161			
k_TrqLOA_SteerRatio_Uls_f32	61.7665825			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	9.20375919			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367			

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214		
t_TrqLOA_DiffGainX_G_u2p14[0]	8684		
t_TrqLOA_DiffGainX_G_u2p14[1]	9667		
t_TrqLOA_DiffGainX_G_u2p14[2]	10650		
t_TrqLOA_DiffGainX_G_u2p14[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528		
t_TrqLOA_X_Kph_u10p6[0]	3136		
t_TrqLOA_X_Kph_u10p6[1]	3200		
t_TrqLOA_X_Kph_u10p6[2]	3264		
t_TrqLOA_X_Kph_u10p6[3]	3328		
t_TrqLOA_X_Kph_u10p6[4]	3392		
t_TrqLOA_X_Kph_u10p6[5]	3456		
t_TrqLOA_X_Kph_u10p6[6]	3520		
t_TrqLOA_X_Kph_u10p6[7]	3584		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-7.77647305		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1549.29675		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-153.528976		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	302.886261		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.987683535	0.987683535	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.0822378099	0.0822378024 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.69126606	1.69126606 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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## Test Step 2.108 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.412190914
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0675000027
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-7.99985456
TrqLOA_TloaCmd_MtrNm_M_f32	-5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.57697034
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	8.35019302
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	891.224121
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-47.6366577
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	9.32355785
k_TrqLOA_FallingRampRate_UlspS_f32	-825.041382
k_TrqLOA_LatAccConversionFactor_Uls_f32	4.81464767
k_TrqLOA_LimOutput_MtrNm_f32	2.96566963
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.930546522
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.98648643
k_TrqLOA_RisingRampRate_UlspS_f32	213.643356
k_TrqLOA_SteerRatio_Uls_f32	23.3187218
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	18.9755859
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	0
t_TrqLOA_DiffGainX_G_u2p14[1]	0
t_TrqLOA_DiffGainX_G_u2p14[2]	0
t_TrqLOA_DiffGainX_G_u2p14[3]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347		
t_TrqLOA_X_Kph_u10p6[0]	3648		
t_TrqLOA_X_Kph_u10p6[1]	3712		
t_TrqLOA_X_Kph_u10p6[2]	3776		
t_TrqLOA_X_Kph_u10p6[3]	3840		
t_TrqLOA_X_Kph_u10p6[4]	3904		
t_TrqLOA_X_Kph_u10p6[5]	3968		
t_TrqLOA_X_Kph_u10p6[6]	4032		
t_TrqLOA_X_Kph_u10p6[7]	4096		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-2.62184381		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-606.626343		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	189.585571		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	408.612793		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.316917598	0.316917598	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.176094562	0.176094562 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.14968359	-1.14968359 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.109 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	1		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0680000037		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	4.32494402		
TrqLOA_TloaCmd_MtrNm_M_f32	-4.5		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.36366594		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.8292191		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	281.531555		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-84.126976		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	9.6188488		
k_TrqLOA_FallingRampRate_UlspS_f32	-20.8287029		
k_TrqLOA_LatAccConversionFactor_Uls_f32	10		
k_TrqLOA_LimOutput_MtrNm_f32	4.61489105		
k_TrqLOA_MaxScaleFactor_Uls_f32	0.107685447		
k_TrqLOA_MinScaleFactor_Uls_f32	0.799875379		
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.94289446		
k_TrqLOA_RisingRampRate_UlspS_f32	481.265869		
k_TrqLOA_SteerRatio_Uls_f32	95.6874542		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.216242597		
k_TrqLOA_Wheelbase_M_f32	8.72745705		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554		

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	32768
t_TrqLOA_DiffGainX_G_u2p14[1]	32768
t_TrqLOA_DiffGainX_G_u2p14[2]	32768
t_TrqLOA_DiffGainX_G_u2p14[3]	32768
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166
t_TrqLOA_X_Kph_u10p6[0]	4160
t_TrqLOA_X_Kph_u10p6[1]	4224
t_TrqLOA_X_Kph_u10p6[2]	4288
t_TrqLOA_X_Kph_u10p6[3]	4352
t_TrqLOA_X_Kph_u10p6[4]	4416
t_TrqLOA_X_Kph_u10p6[5]	4480
t_TrqLOA_X_Kph_u10p6[6]	4544
t_TrqLOA_X_Kph_u10p6[7]	4608
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.675880969		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1273.69678		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-238.016922		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	456.901947		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.831746042	0.831746042	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.173075408	0.173075408 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.401134133	-0.401134163 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.110 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0684999973	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.82934463	
TrqLOA_TloaCmd_MtrNm_M_f32	-4	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.16281998	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.86534548	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	867.851563	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-53.6917267	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	16.691412	
k_TrqLOA_FallingRampRate_UlspS_f32	-374.097443	
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.38450527	
k_TrqLOA_LimOutput_MtrNm_f32	7.53103209	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	1	
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.40066051	
k_TrqLOA_RisingRampRate_UlspS_f32	637.547485	
k_TrqLOA_SteerRatio_Uls_f32	1.25581121	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	11.7385378	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158	

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107		
t_TrqLOA_DiffGainX_G_u2p14[0]	14090		
t_TrqLOA_DiffGainX_G_u2p14[1]	15073		
t_TrqLOA_DiffGainX_G_u2p14[2]	17039		
t_TrqLOA_DiffGainX_G_u2p14[3]	22938		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986		
t_TrqLOA_X_Kph_u10p6[0]	4672		
t_TrqLOA_X_Kph_u10p6[1]	4736		
t_TrqLOA_X_Kph_u10p6[2]	4800		
t_TrqLOA_X_Kph_u10p6[3]	4864		
t_TrqLOA_X_Kph_u10p6[4]	4928		
t_TrqLOA_X_Kph_u10p6[5]	4992		
t_TrqLOA_X_Kph_u10p6[6]	5056		
t_TrqLOA_X_Kph_u10p6[7]	5120		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.780942917		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.94417739		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1876.9718		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-885.495422		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	207.628235		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.89261651	0.89261657	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	-2.72905231	-2.72905231 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.122276023	-0.122275971 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.122276023	-0.122275971 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.112275004	0.112274952 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.122276023	-0.122275971 ± 0.01	✔



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TrqLOA\_Per1

## Test Step 2.111 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0689999983
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.36725426
TrqLOA_TloaCmd_MtrNm_M_f32	-3.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.64986455
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.89984941
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	522.351868
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-40.4528542
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	41.0359154
k_TrqLOA_FallingRampRate_UlspS_f32	-800.21167
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.93089724
k_TrqLOA_LimOutput_MtrNm_f32	1.52869093
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.0462440252
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.08389223
k_TrqLOA_RisingRampRate_UlspS_f32	481.94281
k_TrqLOA_SteerRatio_Uls_f32	35.2770653
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	17.9989662
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	15892
t_TrqLOA_DiffGainX_G_u2p14[1]	16876
t_TrqLOA_DiffGainX_G_u2p14[2]	19169
t_TrqLOA_DiffGainX_G_u2p14[3]	26214
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805		
t_TrqLOA_X_Kph_u10p6[0]	5184		
t_TrqLOA_X_Kph_u10p6[1]	5248		
t_TrqLOA_X_Kph_u10p6[2]	5312		
t_TrqLOA_X_Kph_u10p6[3]	5376		
t_TrqLOA_X_Kph_u10p6[4]	5440		
t_TrqLOA_X_Kph_u10p6[5]	5504		
t_TrqLOA_X_Kph_u10p6[6]	5568		
t_TrqLOA_X_Kph_u10p6[7]	5632		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.214750648		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.64766216		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1729.78186		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-781.014587		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	340.668121		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.919094265	0.919094265	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.18044731	0.18044728 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.134502068	-0.134502113 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.134502068	-0.134502113 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.0494410992	0.0494411029 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.134502068	-0.134502113 ± 0.01	✔

Test Step 2.112 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.349999994			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0694999993			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-7.46230745			
TrqLOA_TloaCmd_MtrNm_M_f32	-3			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.153644562			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.6801877			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	258.90741			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-97.1158218			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	27.0033207			
k_TrqLOA_FallingRampRate_UlspS_f32	-131.670029			
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.827212989			
k_TrqLOA_LimOutput_MtrNm_f32	0.884970009			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.665714741			
k_TrqLOA_MinScaleFactor_Uls_f32	0.460229158			
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.75210524			
k_TrqLOA_RisingRampRate_UlspS_f32	446.973755			
k_TrqLOA_SteerRatio_Uls_f32	24.7843513			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	13.5554199			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	32768			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	17695
t_TrqLOA_DiffGainX_G_u2p14[1]	18678
t_TrqLOA_DiffGainX_G_u2p14[2]	21299
t_TrqLOA_DiffGainX_G_u2p14[3]	29491
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624
t_TrqLOA_X_Kph_u10p6[0]	5696
t_TrqLOA_X_Kph_u10p6[1]	5760
t_TrqLOA_X_Kph_u10p6[2]	5824
t_TrqLOA_X_Kph_u10p6[3]	5888
t_TrqLOA_X_Kph_u10p6[4]	5952
t_TrqLOA_X_Kph_u10p6[5]	6016
t_TrqLOA_X_Kph_u10p6[6]	6080
t_TrqLOA_X_Kph_u10p6[7]	6144
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.0337286		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	13.3415737		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-708.155701		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	473.892212		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.805768371	0.805768371	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.19116807	0.19116807 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.44628334	-1.44628322 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.884970009	-0.884970009 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.460229158	0.460229158 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	1	1	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.884970009	-0.884970009 ± 0.01	✔

Test Step 2.113 (Repeat Count = 1)			✓
Name		Input Value	
Rte_Inst_Ap_TrqLOA		target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32		1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32		0.400000006	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32		0.0700000003	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32		3.66137505	
TrqLOA_TloaCmd_MtrNm_M_f32		-2.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32		2	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32		3.75012302	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32		131.759247	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32		-59.3503685	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32		12.0358582	
k_TrqLOA_FallingRampRate_UlspS_f32		-120.204285	
k_TrqLOA_LatAccConversionFactor_Uls_f32		10	
k_TrqLOA_LimOutput_MtrNm_f32		1.80586672	
k_TrqLOA_MaxScaleFactor_Uls_f32		1	
k_TrqLOA_MinScaleFactor_Uls_f32		1	
k_TrqLOA_NomDrvTrq_MtrNm_f32		6.13124275	
k_TrqLOA_RisingRampRate_UlspS_f32		743.417419	
k_TrqLOA_SteerRatio_Uls_f32		50.2993546	
k_TrqLOA_UndersteerGrad_RadpG_f32		0.25	
k_TrqLOA_Wheelbase_M_f32		8.21659184	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]		655	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]		2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]		4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]		6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]		655	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]		2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]		4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]		6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]		655	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]		2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]		4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]		6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]		655	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]		2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]		4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]		6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]		655	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]		2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]		4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]		6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]		655	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]		2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]		4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]		6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]		655	

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226		
t_TrqLOA_DiffGainX_G_u2p14[0]	328		
t_TrqLOA_DiffGainX_G_u2p14[1]	1229		
t_TrqLOA_DiffGainX_G_u2p14[2]	2458		
t_TrqLOA_DiffGainX_G_u2p14[3]	3113		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443		
t_TrqLOA_X_Kph_u10p6[0]	6208		
t_TrqLOA_X_Kph_u10p6[1]	6272		
t_TrqLOA_X_Kph_u10p6[2]	6336		
t_TrqLOA_X_Kph_u10p6[3]	6400		
t_TrqLOA_X_Kph_u10p6[4]	6464		
t_TrqLOA_X_Kph_u10p6[5]	6528		
t_TrqLOA_X_Kph_u10p6[6]	6592		
t_TrqLOA_X_Kph_u10p6[7]	6656		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.919281602		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.82346725		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1616.61987		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-709.949158		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	365.18869		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.881299257	0.881299257	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.305118859	0.305118859 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-2.92161059	-2.92161107 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-1.80586672	-1.80586672 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.75959146	1.75959146 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-1.80586672	-1.80586672 ± 0.01	✔

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## Test Step 2.114 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.0884144306
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.449999988
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0705000013
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	5.62283564
TrqLOA_TloaCmd_MtrNm_M_f32	-2
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.11996746
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	700.585754
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-34.7888794
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	70.3214874
k_TrqLOA_FallingRampRate_UlspS_f32	-762.936279
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.28748608
k_TrqLOA_LimOutput_MtrNm_f32	6.36147499
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.498461246
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.23000097
k_TrqLOA_RisingRampRate_UlspS_f32	217.914246
k_TrqLOA_SteerRatio_Uls_f32	85.3937531
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	7.21021843
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096
t_TrqLOA_DiffGainX_G_u2p14[2]	4751
t_TrqLOA_DiffGainX_G_u2p14[3]	4915
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262		
t_TrqLOA_X_Kph_u10p6[0]	6720		
t_TrqLOA_X_Kph_u10p6[1]	6784		
t_TrqLOA_X_Kph_u10p6[2]	6848		
t_TrqLOA_X_Kph_u10p6[3]	6912		
t_TrqLOA_X_Kph_u10p6[4]	6976		
t_TrqLOA_X_Kph_u10p6[5]	7040		
t_TrqLOA_X_Kph_u10p6[6]	7104		
t_TrqLOA_X_Kph_u10p6[7]	7168		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-6.70205975		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-644.951233		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	521.019287		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	298.393005		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.229057416	0.229057401	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.447117329	0.447117329 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.498461246	0.498461246 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.115 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	1		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0710000023		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019		
TrqLOA_TloaCmd_MtrNm_M_f32	-1.5		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.53825235		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.83398104		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	121.14772		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-48.6093979		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	25.7523804		
k_TrqLOA_FallingRampRate_UlspS_f32	-325.548462		
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.87461627		
k_TrqLOA_LimOutput_MtrNm_f32	6.87725496		
k_TrqLOA_MaxScaleFactor_Uls_f32	1		
k_TrqLOA_MinScaleFactor_Uls_f32	1		
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.06271744		
k_TrqLOA_RisingRampRate_UlspS_f32	890.627869		
k_TrqLOA_SteerRatio_Uls_f32	63.9423447		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	13.8916626		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158		



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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	5079
t_TrqLOA_DiffGainX_G_u2p14[1]	6062
t_TrqLOA_DiffGainX_G_u2p14[2]	6390
t_TrqLOA_DiffGainX_G_u2p14[3]	6554
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	1280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	1600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	19661
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	22938
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	10650
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	18022
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	25805
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	30310
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29082
t_TrqLOA_X_Kph_u10p6[0]	7232
t_TrqLOA_X_Kph_u10p6[1]	7296
t_TrqLOA_X_Kph_u10p6[2]	7360
t_TrqLOA_X_Kph_u10p6[3]	7424
t_TrqLOA_X_Kph_u10p6[4]	7488
t_TrqLOA_X_Kph_u10p6[5]	7552
t_TrqLOA_X_Kph_u10p6[6]	7616
t_TrqLOA_X_Kph_u10p6[7]	7680
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

# TEST DETAILS REPORT

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.28095341		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	942.877319		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-470.462677		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	237.49881		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.902781188	0.902781188	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.432089001	0.432089001 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	1	1	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.116 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0715000033	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.32079208	
TrqLOA_TloaCmd_MtrNm_M_f32	-1	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.37349057	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	10	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	417.774933	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-92.0521927	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	65.2838593	
k_TrqLOA_FallingRampRate_UlspS_f32	-230.849899	
k_TrqLOA_LatAccConversionFactor_Uls_f32	10	
k_TrqLOA_LimOutput_MtrNm_f32	1.3696003	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	1	
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.26509142	
k_TrqLOA_RisingRampRate_UlspS_f32	19.8123493	
k_TrqLOA_SteerRatio_Uls_f32	20.5512066	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.215767324	
k_TrqLOA_Wheelbase_M_f32	2.07911134	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763	

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661		
t_TrqLOA_DiffGainX_G_u2p14[0]	6881		
t_TrqLOA_DiffGainX_G_u2p14[1]	7864		
t_TrqLOA_DiffGainX_G_u2p14[2]	8520		
t_TrqLOA_DiffGainX_G_u2p14[3]	9830		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	1920		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	2240		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	2560		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	2880		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	3200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901		
t_TrqLOA_X_Kph_u10p6[0]	7744		
t_TrqLOA_X_Kph_u10p6[1]	7808		
t_TrqLOA_X_Kph_u10p6[2]	7872		
t_TrqLOA_X_Kph_u10p6[3]	7936		
t_TrqLOA_X_Kph_u10p6[4]	8000		
t_TrqLOA_X_Kph_u10p6[5]	8064		
t_TrqLOA_X_Kph_u10p6[6]	8128		
t_TrqLOA_X_Kph_u10p6[7]	8192		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	4.30011368		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	425.325989		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-722.849121		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	404.025146		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.815895617	0.815895617	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.308763355	0.308763325 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.57368302	-3.57368302 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-1.3696003	-1.3696003 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	1	1	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-1.3696003	-1.3696003 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.117 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.19543159
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.600000024
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0719999969
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	6.3116827
TrqLOA_TloaCmd_MtrNm_M_f32	-0.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.97127008
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	36.6413078
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-92.0732269
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	46.1544571
k_TrqLOA_FallingRampRate_UlspS_f32	-543.844055
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.59191108
k_TrqLOA_LimOutput_MtrNm_f32	2.21100903
k_TrqLOA_MaxScaleFactor_Uls_f32	0.302499175
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.49389577
k_TrqLOA_RisingRampRate_UlspS_f32	879.470337
k_TrqLOA_SteerRatio_Uls_f32	42.7107048
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	16.6651707
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	8684
t_TrqLOA_DiffGainX_G_u2p14[1]	9667
t_TrqLOA_DiffGainX_G_u2p14[2]	10650
t_TrqLOA_DiffGainX_G_u2p14[3]	13107
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	3520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	3840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	4160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	4480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	4800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	12288		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	32768		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	30720		
t_TrqLOA_X_Kph_u10p6[0]	8256		
t_TrqLOA_X_Kph_u10p6[1]	8320		
t_TrqLOA_X_Kph_u10p6[2]	8384		
t_TrqLOA_X_Kph_u10p6[3]	8448		
t_TrqLOA_X_Kph_u10p6[4]	8512		
t_TrqLOA_X_Kph_u10p6[5]	8576		
t_TrqLOA_X_Kph_u10p6[6]	8640		
t_TrqLOA_X_Kph_u10p6[7]	8704		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.0375167131		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.22446823		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-7.13535595		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-915.505249		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	304.914886		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.287740499	0.287740499	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.458055556	0.458055526 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.29484546	-1.29484546 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-1.29484546	-1.29484546 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-1.29484546	-1.29484546 ± 0.01	✔

Test Step 2.118 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.649999976			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0724999979			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.10264874			
TrqLOA_TloaCmd_MtrNm_M_f32	0			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.53738272			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.86057854			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	91.7356949			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-60.7743607			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	51.3350792			
k_TrqLOA_FallingRampRate_UlspS_f32	-81.2285538			
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.59152317			
k_TrqLOA_LimOutput_MtrNm_f32	2.01894808			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.768612146			
k_TrqLOA_MinScaleFactor_Uls_f32	0.370501518			
k_TrqLOA_NomDrvTrq_MtrNm_f32	3.48720717			
k_TrqLOA_RisingRampRate_UlspS_f32	493.299835			
k_TrqLOA_SteerRatio_Uls_f32	94.0239563			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.103192776			
k_TrqLOA_Wheelbase_M_f32	3.4305203			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	10486
t_TrqLOA_DiffGainX_G_u2p14[1]	11469
t_TrqLOA_DiffGainX_G_u2p14[2]	12780
t_TrqLOA_DiffGainX_G_u2p14[3]	16384
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	5120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	5440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	5760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	6080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	6400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13107
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	26624
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	28262
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	33997
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	31539
t_TrqLOA_X_Kph_u10p6[0]	8768
t_TrqLOA_X_Kph_u10p6[1]	8832
t_TrqLOA_X_Kph_u10p6[2]	8896
t_TrqLOA_X_Kph_u10p6[3]	8960
t_TrqLOA_X_Kph_u10p6[4]	9024
t_TrqLOA_X_Kph_u10p6[5]	9088
t_TrqLOA_X_Kph_u10p6[6]	9152
t_TrqLOA_X_Kph_u10p6[7]	9216
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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Name	Input Value
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.420737267
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.56191611
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1006.46796
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	385.847076
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	392.839417

Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.878451288	0.878451288	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.651854038	0.651854038 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.550782979	-0.550783038 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.119 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0729999989	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.82143354	
TrqLOA_TloaCmd_MtrNm_M_f32	0.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.583380878	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.14999008	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	876.559387	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-77.9407883	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	59.853447	
k_TrqLOA_FallingRampRate_UlspS_f32	-352.786621	
k_TrqLOA_LatAccConversionFactor_Uls_f32	6.628057	
k_TrqLOA_LimOutput_MtrNm_f32	2.33613467	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	0.544707656	
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.10560083	
k_TrqLOA_RisingRampRate_UlspS_f32	266.088531	
k_TrqLOA_SteerRatio_Uls_f32	5.45895815	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	6.65763712	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554	



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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830		
t_TrqLOA_DiffGainX_G_u2p14[0]	12288		
t_TrqLOA_DiffGainX_G_u2p14[1]	13271		
t_TrqLOA_DiffGainX_G_u2p14[2]	14909		
t_TrqLOA_DiffGainX_G_u2p14[3]	19661		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	6720		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	7040		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	7360		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	7680		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	8000		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13926		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	35226		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	32358		
t_TrqLOA_X_Kph_u10p6[0]	9280		
t_TrqLOA_X_Kph_u10p6[1]	9344		
t_TrqLOA_X_Kph_u10p6[2]	9408		
t_TrqLOA_X_Kph_u10p6[3]	9472		
t_TrqLOA_X_Kph_u10p6[4]	9536		
t_TrqLOA_X_Kph_u10p6[5]	9600		
t_TrqLOA_X_Kph_u10p6[6]	9664		
t_TrqLOA_X_Kph_u10p6[7]	9728		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.147906661		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	1.12150919		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1629.86719		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	689.825684		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	341.284576		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.844118416	0.844118416	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.718517244	0.718517303 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.0512037873	-0.0512038134 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.120 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.856627464
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0734999999
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.64224005
TrqLOA_TloaCmd_MtrNm_M_f32	1
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.575818539
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.72224617
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	614.205139
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-60.9445
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	56.8051186
k_TrqLOA_FallingRampRate_UlspS_f32	-947.540466
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.5310955
k_TrqLOA_LimOutput_MtrNm_f32	1.54906464
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.282221079
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.14293718
k_TrqLOA_RisingRampRate_UlspS_f32	537.828125
k_TrqLOA_SteerRatio_Uls_f32	18.7796841
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	2.62554789
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	14090
t_TrqLOA_DiffGainX_G_u2p14[1]	15073
t_TrqLOA_DiffGainX_G_u2p14[2]	17039
t_TrqLOA_DiffGainX_G_u2p14[3]	22938
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	8320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	8640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	8960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	9280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	9600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528		
t_TrqLOA_X_Kph_u10p6[0]	9792		
t_TrqLOA_X_Kph_u10p6[1]	9856		
t_TrqLOA_X_Kph_u10p6[2]	9920		
t_TrqLOA_X_Kph_u10p6[3]	9984		
t_TrqLOA_X_Kph_u10p6[4]	10048		
t_TrqLOA_X_Kph_u10p6[5]	10112		
t_TrqLOA_X_Kph_u10p6[6]	10176		
t_TrqLOA_X_Kph_u10p6[7]	10240		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.210905313		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.24548841		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	557.287415		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	35.2206078		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	83.2928467		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.734738469	0.734738469	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.147045523	0.147045508 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.282221079	0.282221079 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.121 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.074000001			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.800000019			
TrqLOA_TloaCmd_MtrNm_M_f32	1.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.76970917			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	6.74650621			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	317.604797			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-90.4868851			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	17.3672791			
k_TrqLOA_FallingRampRate_UlspS_f32	-753.307373			
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.927809			
k_TrqLOA_LimOutput_MtrNm_f32	5.25430536			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.202163577			
k_TrqLOA_MinScaleFactor_Uls_f32	0.664285302			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.69087601			
k_TrqLOA_RisingRampRate_UlspS_f32	639.479919			
k_TrqLOA_SteerRatio_Uls_f32	4.69030809			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.199088082			
k_TrqLOA_Wheelbase_M_f32	1.61778116			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	15892
t_TrqLOA_DiffGainX_G_u2p14[1]	16876
t_TrqLOA_DiffGainX_G_u2p14[2]	19169
t_TrqLOA_DiffGainX_G_u2p14[3]	26214
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347
t_TrqLOA_X_Kph_u10p6[0]	10304
t_TrqLOA_X_Kph_u10p6[1]	10368
t_TrqLOA_X_Kph_u10p6[2]	10432
t_TrqLOA_X_Kph_u10p6[3]	10496
t_TrqLOA_X_Kph_u10p6[4]	10560
t_TrqLOA_X_Kph_u10p6[5]	10624
t_TrqLOA_X_Kph_u10p6[6]	10688
t_TrqLOA_X_Kph_u10p6[7]	10752
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.663388848		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	4.7882843		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1980.56238		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	601.731018		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	399.236786		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.819026232	0.819026232	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	1.01211238	1.01211226 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.42644906	1.42644894 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	1.42644906	1.42644894 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.5092507	0.5092507 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	1.42644906	1.42644894 ± 0.01	✔

Test Step 2.122 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.074500002			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	3.47551155			
TrqLOA_TloaCmd_MtrNm_M_f32	2			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.0130735636			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.26314235			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	892.332764			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-22.0116425			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	22.6167736			
k_TrqLOA_FallingRampRate_UlspS_f32	-131.983978			
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.48893201			
k_TrqLOA_LimOutput_MtrNm_f32	4.19399071			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.25471401			
k_TrqLOA_RisingRampRate_UlspS_f32	524.350281			
k_TrqLOA_SteerRatio_Uls_f32	63.0900269			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0236685574			
k_TrqLOA_Wheelbase_M_f32	11.9219341			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367			

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214		
t_TrqLOA_DiffGainX_G_u2p14[0]	17695		
t_TrqLOA_DiffGainX_G_u2p14[1]	18678		
t_TrqLOA_DiffGainX_G_u2p14[2]	21299		
t_TrqLOA_DiffGainX_G_u2p14[3]	29491		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	11520		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	11840		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	12160		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	12480		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	12800		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166		
t_TrqLOA_X_Kph_u10p6[0]	10816		
t_TrqLOA_X_Kph_u10p6[1]	10880		
t_TrqLOA_X_Kph_u10p6[2]	10944		
t_TrqLOA_X_Kph_u10p6[3]	11008		
t_TrqLOA_X_Kph_u10p6[4]	11072		
t_TrqLOA_X_Kph_u10p6[5]	11136		
t_TrqLOA_X_Kph_u10p6[6]	11200		
t_TrqLOA_X_Kph_u10p6[7]	11264		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.256499767		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.89680552		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1356.30872		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	968.051514		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	281.498718		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.955976725	0.955976725	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.697598696	0.697598696 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	3.3841362	3.38413596 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	3.3841362	3.38413596 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	3.3841362	3.38413596 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.123 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.075000003
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.312298417
TrqLOA_TloaCmd_MtrNm_M_f32	2.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.50748444
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	801.555481
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-97.5441284
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	11.4978685
k_TrqLOA_FallingRampRate_UlspS_f32	-915.834595
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.14552212
k_TrqLOA_LimOutput_MtrNm_f32	3.54621148
k_TrqLOA_MaxScaleFactor_Uls_f32	0.687833905
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.177738294
k_TrqLOA_RisingRampRate_UlspS_f32	487.949097
k_TrqLOA_SteerRatio_Uls_f32	58.2460938
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	14.2606649
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	328
t_TrqLOA_DiffGainX_G_u2p14[1]	1229
t_TrqLOA_DiffGainX_G_u2p14[2]	2458
t_TrqLOA_DiffGainX_G_u2p14[3]	3113
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	13120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	13440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	13760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	14080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	14400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011



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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986		
t_TrqLOA_X_Kph_u10p6[0]	11328		
t_TrqLOA_X_Kph_u10p6[1]	11392		
t_TrqLOA_X_Kph_u10p6[2]	11456		
t_TrqLOA_X_Kph_u10p6[3]	11520		
t_TrqLOA_X_Kph_u10p6[4]	11584		
t_TrqLOA_X_Kph_u10p6[5]	11648		
t_TrqLOA_X_Kph_u10p6[6]	11712		
t_TrqLOA_X_Kph_u10p6[7]	11776		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.000482439995		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.73393083		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1515.99487		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	49.722393		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	288.431671		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.804911733	0.804911733	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.281611413	0.281611413 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.0253538806	0.0253538694 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.0253538806	0.0253538694 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.0253538806	0.0253538694 ± 0.01	✔

Test Step 2.124 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.0948557854			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.349999994			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0754999965			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	4.00192595			
TrqLOA_TloaCmd_MtrNm_M_f32	3			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.226432562			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.70420718			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	115.104866			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-64.9389114			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	24.6533508			
k_TrqLOA_FallingRampRate_UlspS_f32	-866.203979			
k_TrqLOA_LatAccConversionFactor_Uls_f32	6.27462196			
k_TrqLOA_LimOutput_MtrNm_f32	6.56321907			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.25254965			
k_TrqLOA_RisingRampRate_UlspS_f32	178.460541			
k_TrqLOA_SteerRatio_Uls_f32	5.46221828			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	8.7096529			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096
t_TrqLOA_DiffGainX_G_u2p14[2]	4751
t_TrqLOA_DiffGainX_G_u2p14[3]	4915
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805
t_TrqLOA_X_Kph_u10p6[0]	11840
t_TrqLOA_X_Kph_u10p6[1]	11904
t_TrqLOA_X_Kph_u10p6[2]	11968
t_TrqLOA_X_Kph_u10p6[3]	12032
t_TrqLOA_X_Kph_u10p6[4]	12096
t_TrqLOA_X_Kph_u10p6[5]	12160
t_TrqLOA_X_Kph_u10p6[6]	12224
t_TrqLOA_X_Kph_u10p6[7]	12288
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-1.35786963		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-424.722809		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-863.749573		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	506.476563		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.144162491	0.144162491	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	-0.495774776	-0.495774806 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.317895025	-0.317895055 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.317895025	-0.317895055 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.583353639	0.583353639 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.317895025	-0.317895055 ± 0.01	✔

Test Step 2.125 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0759999976	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	4.52058029	
TrqLOA_TloaCmd_MtrNm_M_f32	3.5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.57367921	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.38729286	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	233.491806	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-66.8403244	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	64.7281036	
k_TrqLOA_FallingRampRate_UlspS_f32	-928.644592	
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.234460622	
k_TrqLOA_LimOutput_MtrNm_f32	5.92868757	
k_TrqLOA_MaxScaleFactor_Uls_f32	0.0456832647	
k_TrqLOA_MinScaleFactor_Uls_f32	0.996097684	
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.03396273	
k_TrqLOA_RisingRampRate_UlspS_f32	48.1902771	
k_TrqLOA_SteerRatio_Uls_f32	34.5108681	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25	
k_TrqLOA_Wheelbase_M_f32	4.31090164	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158	

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107		
t_TrqLOA_DiffGainX_G_u2p14[0]	5079		
t_TrqLOA_DiffGainX_G_u2p14[1]	6062		
t_TrqLOA_DiffGainX_G_u2p14[2]	6390		
t_TrqLOA_DiffGainX_G_u2p14[3]	6554		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624		
t_TrqLOA_X_Kph_u10p6[0]	12352		
t_TrqLOA_X_Kph_u10p6[1]	12416		
t_TrqLOA_X_Kph_u10p6[2]	12480		
t_TrqLOA_X_Kph_u10p6[3]	12544		
t_TrqLOA_X_Kph_u10p6[4]	12608		
t_TrqLOA_X_Kph_u10p6[5]	12672		
t_TrqLOA_X_Kph_u10p6[6]	12736		
t_TrqLOA_X_Kph_u10p6[7]	12800		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-2.64260817		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1216.50769		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	250.73175		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	511		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.866319358	0.866319358	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.407827348	0.407827318 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.47729862	-1.47729874 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.126 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.00941729546
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.449999988
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0764999986
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	4.23950624
TrqLOA_TloaCmd_MtrNm_M_f32	4
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.13336575
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.33077192
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	133.163208
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-1.6913321
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	53.0677528
k_TrqLOA_FallingRampRate_UlspS_f32	-562.738586
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.68228257
k_TrqLOA_LimOutput_MtrNm_f32	6.47030687
k_TrqLOA_MaxScaleFactor_Uls_f32	0.95019269
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.05968189
k_TrqLOA_RisingRampRate_UlspS_f32	549.646301
k_TrqLOA_SteerRatio_Uls_f32	29.0238514
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	7.63126898
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	6881
t_TrqLOA_DiffGainX_G_u2p14[1]	7864
t_TrqLOA_DiffGainX_G_u2p14[2]	8520
t_TrqLOA_DiffGainX_G_u2p14[3]	9830
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443		
t_TrqLOA_X_Kph_u10p6[0]	12864		
t_TrqLOA_X_Kph_u10p6[1]	12928		
t_TrqLOA_X_Kph_u10p6[2]	12992		
t_TrqLOA_X_Kph_u10p6[3]	13056		
t_TrqLOA_X_Kph_u10p6[4]	13120		
t_TrqLOA_X_Kph_u10p6[5]	13184		
t_TrqLOA_X_Kph_u10p6[6]	13248		
t_TrqLOA_X_Kph_u10p6[7]	13312		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.36877322		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1302.61328		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-340.970886		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	21.4021606		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.115552805	0.115552798	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.408950448	0.408950478 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.0340731144	-0.0340731964 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.127 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0769999996			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	4.74555826			
TrqLOA_TloaCmd_MtrNm_M_f32	4.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.63674033			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.08462524			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	357.839844			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-3.03508973			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	33.79459			
k_TrqLOA_FallingRampRate_UlspS_f32	-507.021576			
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.35055384			
k_TrqLOA_LimOutput_MtrNm_f32	5.86887455			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.147675157			
k_TrqLOA_MinScaleFactor_Uls_f32	0.0349010229			
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.91014886			
k_TrqLOA_RisingRampRate_UlspS_f32	903.030151			
k_TrqLOA_SteerRatio_Uls_f32	19.2581005			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	20			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	8684
t_TrqLOA_DiffGainX_G_u2p14[1]	9667
t_TrqLOA_DiffGainX_G_u2p14[2]	10650
t_TrqLOA_DiffGainX_G_u2p14[3]	13107
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	19520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	19840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	20160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	20480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	20800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262
t_TrqLOA_X_Kph_u10p6[0]	13376
t_TrqLOA_X_Kph_u10p6[1]	13440
t_TrqLOA_X_Kph_u10p6[2]	13504
t_TrqLOA_X_Kph_u10p6[3]	13568
t_TrqLOA_X_Kph_u10p6[4]	13632
t_TrqLOA_X_Kph_u10p6[5]	13696
t_TrqLOA_X_Kph_u10p6[6]	13760
t_TrqLOA_X_Kph_u10p6[7]	13824
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc



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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.80063248		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1231.90735		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-442.899658		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	451.846344		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.993929803	0.993929803	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.343736827	0.343736857 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.0731231868	-0.0731231719 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.0731231868	-0.0731231719 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.0349010229	0.0349010229 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.0731231868	-0.0731231719 ± 0.01	✔

Test Step 2.128 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0775000006	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-6.22358561	
TrqLOA_TloaCmd_MtrNm_M_f32	5	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.391814232	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	5.38269758	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	851.174866	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-82.625946	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	46.064209	
k_TrqLOA_FallingRampRate_UlspS_f32	-193.040192	
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.52927876	
k_TrqLOA_LimOutput_MtrNm_f32	3.99039626	
k_TrqLOA_MaxScaleFactor_Uls_f32	1	
k_TrqLOA_MinScaleFactor_Uls_f32	1	
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.06337452	
k_TrqLOA_RisingRampRate_UlspS_f32	713.560303	
k_TrqLOA_SteerRatio_Uls_f32	70.9857712	
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0938361883	
k_TrqLOA_Wheelbase_M_f32	12.6651964	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915	
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039	
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661	
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655	

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226		
t_TrqLOA_DiffGainX_G_u2p14[0]	10486		
t_TrqLOA_DiffGainX_G_u2p14[1]	11469		
t_TrqLOA_DiffGainX_G_u2p14[2]	12780		
t_TrqLOA_DiffGainX_G_u2p14[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	21120		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	21440		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	21760		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	22080		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	22400		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	25805		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	30310		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29082		
t_TrqLOA_X_Kph_u10p6[0]	13888		
t_TrqLOA_X_Kph_u10p6[1]	13952		
t_TrqLOA_X_Kph_u10p6[2]	14016		
t_TrqLOA_X_Kph_u10p6[3]	14080		
t_TrqLOA_X_Kph_u10p6[4]	14144		
t_TrqLOA_X_Kph_u10p6[5]	14208		
t_TrqLOA_X_Kph_u10p6[6]	14272		
t_TrqLOA_X_Kph_u10p6[7]	14336		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.163787127		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-1.70545602		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1053.297		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	366.434143		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	458.857544		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.834748089	0.834748089	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.57617873	0.57617873 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.108414486	0.108414471 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.108414486	0.108414471 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.108414486	0.108414471 ± 0.01	✔

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TrqLOA\_Per1

## Test Step 2.129 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.567123771
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.600000024
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0780000016
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-6.57568836
TrqLOA_TloaCmd_MtrNm_M_f32	5.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.106500566
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.87208557
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	60.7626076
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-79.0494766
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	63.842453
k_TrqLOA_FallingRampRate_UlspS_f32	-388.694366
k_TrqLOA_LatAccConversionFactor_Uls_f32	10
k_TrqLOA_LimOutput_MtrNm_f32	2.91165829
k_TrqLOA_MaxScaleFactor_Uls_f32	0.99773109
k_TrqLOA_MinScaleFactor_Uls_f32	0.98422873
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.42731905
k_TrqLOA_RisingRampRate_UlspS_f32	359.111908
k_TrqLOA_SteerRatio_Uls_f32	17.2614994
k_TrqLOA_UndersteerGrad_RadpG_f32	0.228721723
k_TrqLOA_Wheelbase_M_f32	8.02447128
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	12288
t_TrqLOA_DiffGainX_G_u2p14[1]	13271
t_TrqLOA_DiffGainX_G_u2p14[2]	14909
t_TrqLOA_DiffGainX_G_u2p14[3]	19661
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	22720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	23040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	23360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	23680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	24000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901		
t_TrqLOA_X_Kph_u10p6[0]	14400		
t_TrqLOA_X_Kph_u10p6[1]	14464		
t_TrqLOA_X_Kph_u10p6[2]	14528		
t_TrqLOA_X_Kph_u10p6[3]	14592		
t_TrqLOA_X_Kph_u10p6[4]	14656		
t_TrqLOA_X_Kph_u10p6[5]	14720		
t_TrqLOA_X_Kph_u10p6[6]	14784		
t_TrqLOA_X_Kph_u10p6[7]	14848		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.383844972		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.118159592		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-569.586182		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-195.522369		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	478.792694		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.409024805	0.409024805	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.48706758	0.48706755 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.590291202	-0.590291142 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.590291202	-0.590291142 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.824724436	0.824724376 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.590291202	-0.590291142 ± 0.01	✔

## Test Step 2.130 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.649999976
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0785000026
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.0967210084
TrqLOA_TloaCmd_MtrNm_M_f32	6
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.599776387
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	1.06560349
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	801.15863
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-47.003067
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	92.9339294
k_TrqLOA_FallingRampRate_UlspS_f32	-601.664307
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.30471039
k_TrqLOA_LimOutput_MtrNm_f32	1.17788911
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.787144184
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.45212317
k_TrqLOA_RisingRampRate_UlspS_f32	124.468575
k_TrqLOA_SteerRatio_Uls_f32	67.8080902
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	16.3749599
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	14090
t_TrqLOA_DiffGainX_G_u2p14[1]	15073
t_TrqLOA_DiffGainX_G_u2p14[2]	17039
t_TrqLOA_DiffGainX_G_u2p14[3]	22938
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	12288
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	25805
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	27443
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	32768
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	30720
t_TrqLOA_X_Kph_u10p6[0]	14912
t_TrqLOA_X_Kph_u10p6[1]	14976
t_TrqLOA_X_Kph_u10p6[2]	15040
t_TrqLOA_X_Kph_u10p6[3]	15104
t_TrqLOA_X_Kph_u10p6[4]	15168
t_TrqLOA_X_Kph_u10p6[5]	15232
t_TrqLOA_X_Kph_u10p6[6]	15296
t_TrqLOA_X_Kph_u10p6[7]	15360
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.39964104		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1328.40686		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-230.84993		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	264.080994		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.905993879	0.905993879	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.582307339	0.582307398 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.787144184	0.787144184 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 2.131 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0790000036			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	3.91868973			
TrqLOA_TloaCmd_MtrNm_M_f32	6.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.907211721			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.06250286			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	156.679932			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-0.0322552323			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	29.8183842			
k_TrqLOA_FallingRampRate_UlspS_f32	-878.769714			
k_TrqLOA_LatAccConversionFactor_Uls_f32	10			
k_TrqLOA_LimOutput_MtrNm_f32	8.42664528			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.929057002			
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.06529593			
k_TrqLOA_RisingRampRate_UlspS_f32	906.051819			
k_TrqLOA_SteerRatio_Uls_f32	66.7969742			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	1.63229978			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763			

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661		
t_TrqLOA_DiffGainX_G_u2p14[0]	15892		
t_TrqLOA_DiffGainX_G_u2p14[1]	16876		
t_TrqLOA_DiffGainX_G_u2p14[2]	19169		
t_TrqLOA_DiffGainX_G_u2p14[3]	26214		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	11520		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	11840		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	12160		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	12480		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	12800		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	28262		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	33997		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	31539		
t_TrqLOA_X_Kph_u10p6[0]	15424		
t_TrqLOA_X_Kph_u10p6[1]	15488		
t_TrqLOA_X_Kph_u10p6[2]	15552		
t_TrqLOA_X_Kph_u10p6[3]	15616		
t_TrqLOA_X_Kph_u10p6[4]	15680		
t_TrqLOA_X_Kph_u10p6[5]	15744		
t_TrqLOA_X_Kph_u10p6[6]	15808		
t_TrqLOA_X_Kph_u10p6[7]	15872		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.908415675		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	5.94108057		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-378.692474		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-589.088501		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	444.934845		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.999935508	0.999935508	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.0436636657	0.0436636731 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.819662869	-0.819662631 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.819662869	-0.819662631 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.904892027	0.904891908 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.819662869	-0.819662631 ± 0.01	✔



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TrqLOA\_Per1

Test Step 2.132 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0794999972
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	3.47269344
TrqLOA_TloaCmd_MtrNm_M_f32	7
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.882734537
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.65194321
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	300.425354
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-71.5873337
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	39.3758888
k_TrqLOA_FallingRampRate_UlspS_f32	-364.970367
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.3057895
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.25052118
k_TrqLOA_RisingRampRate_UlspS_f32	768.279846
k_TrqLOA_SteerRatio_Uls_f32	61.6943359
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	13.6526098
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	0
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	0
t_TrqLOA_DiffGainX_G_u2p14[0]	17695
t_TrqLOA_DiffGainX_G_u2p14[1]	18678
t_TrqLOA_DiffGainX_G_u2p14[2]	21299
t_TrqLOA_DiffGainX_G_u2p14[3]	29491
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	13120
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	13440
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	13760
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	14080
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	14400
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13926		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	24166		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	27443		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	35226		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	32358		
t_TrqLOA_X_Kph_u10p6[0]	15936		
t_TrqLOA_X_Kph_u10p6[1]	16000		
t_TrqLOA_X_Kph_u10p6[2]	16064		
t_TrqLOA_X_Kph_u10p6[3]	16128		
t_TrqLOA_X_Kph_u10p6[4]	16192		
t_TrqLOA_X_Kph_u10p6[5]	16256		
t_TrqLOA_X_Kph_u10p6[6]	16320		
t_TrqLOA_X_Kph_u10p6[7]	16384		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.71404624		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.61758518		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1498.15515		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	752.728455		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	492.217041		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.856825352	0.856825352	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.203905731	0.203905731 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.133 (Repeat Count = 1)			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.210974574		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0799999982		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	3.13845325		
TrqLOA_TloaCmd_MtrNm_M_f32	7.5		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.2057054		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	420.948761		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-46.0566826		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	64.0082474		
k_TrqLOA_FallingRampRate_UlspS_f32	-766.130188		
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.03221798		
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019		
k_TrqLOA_MaxScaleFactor_Uls_f32	1		
k_TrqLOA_MinScaleFactor_Uls_f32	0.0404216051		
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.75811481		
k_TrqLOA_RisingRampRate_UlspS_f32	253.850082		
k_TrqLOA_SterRatio_Uls_f32	70.1602173		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	16.5584469		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655		

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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	32768
t_TrqLOA_DiffGainX_G_u2p14[0]	328
t_TrqLOA_DiffGainX_G_u2p14[1]	1229
t_TrqLOA_DiffGainX_G_u2p14[2]	2458
t_TrqLOA_DiffGainX_G_u2p14[3]	3113
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528
t_TrqLOA_X_Kph_u10p6[0]	16448
t_TrqLOA_X_Kph_u10p6[1]	16512
t_TrqLOA_X_Kph_u10p6[2]	16576
t_TrqLOA_X_Kph_u10p6[3]	16640
t_TrqLOA_X_Kph_u10p6[4]	16704
t_TrqLOA_X_Kph_u10p6[5]	16768
t_TrqLOA_X_Kph_u10p6[6]	16832
t_TrqLOA_X_Kph_u10p6[7]	16896
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.299962163		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	1.92956245		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-578.120789		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-697.338623		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	468.839203		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.338991076	0.338991076	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.130536705	0.13053669 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.227853045	-0.227853209 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.227853045	-0.227853209 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.467739582	0.467739671 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.227853045	-0.227853209 ± 0.01	✔

Test Step 2.134 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.251682043			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0804999992			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	7.99536085			
TrqLOA_TloaCmd_MtrNm_M_f32	8			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.84285891			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.39067173			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	844.036987			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-16.0573845			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	76.3840561			
k_TrqLOA_FallingRampRate_UlspS_f32	-543.427917			
k_TrqLOA_LatAccConversionFactor_Uls_f32	10			
k_TrqLOA_LimOutput_MtrNm_f32	6.49614382			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.43302631			
k_TrqLOA_RisingRampRate_UlspS_f32	513.813843			
k_TrqLOA_SteerRatio_Uls_f32	59.0387001			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	2.40938735			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554			

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661		
t_TrqLOA_DiffGainX_G_u2p14[0]	3277		
t_TrqLOA_DiffGainX_G_u2p14[1]	4096		
t_TrqLOA_DiffGainX_G_u2p14[2]	4751		
t_TrqLOA_DiffGainX_G_u2p14[3]	4915		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347		
t_TrqLOA_X_Kph_u10p6[0]	16960		
t_TrqLOA_X_Kph_u10p6[1]	17024		
t_TrqLOA_X_Kph_u10p6[2]	17088		
t_TrqLOA_X_Kph_u10p6[3]	17152		
t_TrqLOA_X_Kph_u10p6[4]	17216		
t_TrqLOA_X_Kph_u10p6[5]	17280		
t_TrqLOA_X_Kph_u10p6[6]	17344		
t_TrqLOA_X_Kph_u10p6[7]	17408		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-7.34334469		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-274.225433		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-196.351166		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	151.566467		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.299987793	0.299987793	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.212130412	0.212130412 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.815231204	-0.815231204 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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## Test Step 2.135 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0810000002
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	3.94957662
TrqLOA_TloaCmd_MtrNm_M_f32	0
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.66605556
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.85951519
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	911.98468
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-53.3915215
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	51.8754578
k_TrqLOA_FallingRampRate_UlspS_f32	-584.015686
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.2230463
k_TrqLOA_LimOutput_MtrNm_f32	0
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.85271311
k_TrqLOA_RisingRampRate_UlspS_f32	768.586548
k_TrqLOA_SteerRatio_Uls_f32	68.3248825
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	13.7449617
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	5079
t_TrqLOA_DiffGainX_G_u2p14[1]	6062
t_TrqLOA_DiffGainX_G_u2p14[2]	6390
t_TrqLOA_DiffGainX_G_u2p14[3]	6554
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011

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Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166		
t_TrqLOA_X_Kph_u10p6[0]	17472		
t_TrqLOA_X_Kph_u10p6[1]	17536		
t_TrqLOA_X_Kph_u10p6[2]	17600		
t_TrqLOA_X_Kph_u10p6[3]	17664		
t_TrqLOA_X_Kph_u10p6[4]	17728		
t_TrqLOA_X_Kph_u10p6[5]	17792		
t_TrqLOA_X_Kph_u10p6[6]	17856		
t_TrqLOA_X_Kph_u10p6[7]	17920		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.5761981		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1625.71875		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	218.515076		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	313.603424		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.893216968	0.893216968	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.292585343	0.292585343 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.136 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.349999994			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0815000013			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-7.3503871			
TrqLOA_TloaCmd_MtrNm_M_f32	0.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.32315111			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	6.69425678			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	637.941956			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-4.69287825			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	81.2322464			
k_TrqLOA_FallingRampRate_UlspS_f32	-405.371887			
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.397788286			
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.661162853			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019			
k_TrqLOA_RisingRampRate_UlspS_f32	341.213867			
k_TrqLOA_SteerRatio_Uls_f32	56.4514389			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	10.2917967			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	13763			



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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	19661
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	13763
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	15729
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	17039
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	19661
t_TrqLOA_DiffGainX_G_u2p14[0]	6881
t_TrqLOA_DiffGainX_G_u2p14[1]	7864
t_TrqLOA_DiffGainX_G_u2p14[2]	8520
t_TrqLOA_DiffGainX_G_u2p14[3]	9830
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	6554
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	11878
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24986
t_TrqLOA_X_Kph_u10p6[0]	17984
t_TrqLOA_X_Kph_u10p6[1]	18048
t_TrqLOA_X_Kph_u10p6[2]	18112
t_TrqLOA_X_Kph_u10p6[3]	18176
t_TrqLOA_X_Kph_u10p6[4]	18240
t_TrqLOA_X_Kph_u10p6[5]	18304
t_TrqLOA_X_Kph_u10p6[6]	18368
t_TrqLOA_X_Kph_u10p6[7]	18432
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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TrqLOA\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.46458626		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1497.62024		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	98.8682098		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	372.836304		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.990614235	0.990614235	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.33107844	0.33107844 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.640723348	-0.640723348 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.137 (Repeat Count = 1) ✓			
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	1		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0820000023		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-1.95104527		
TrqLOA_TloaCmd_MtrNm_M_f32	1		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.5306412		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.52871656		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	857.356201		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-42.9399986		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	43.6063995		
k_TrqLOA_FallingRampRate_UlspS_f32	-924.257385		
k_TrqLOA_LatAccConversionFactor_Uls_f32	10		
k_TrqLOA_LimOutput_MtrNm_f32	8.10000038		
k_TrqLOA_MaxScaleFactor_Uls_f32	1		
k_TrqLOA_MinScaleFactor_Uls_f32	1		
k_TrqLOA_NomDrvTrq_MtrNm_f32	6.53715372		
k_TrqLOA_RisingRampRate_UlspS_f32	299.682953		
k_TrqLOA_SteerRatio_Uls_f32	12.8664446		
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25		
k_TrqLOA_Wheelbase_M_f32	14.8343668		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367		

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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214		
t_TrqLOA_DiffGainX_G_u2p14[0]	8684		
t_TrqLOA_DiffGainX_G_u2p14[1]	9667		
t_TrqLOA_DiffGainX_G_u2p14[2]	10650		
t_TrqLOA_DiffGainX_G_u2p14[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805		
t_TrqLOA_X_Kph_u10p6[0]	18496		
t_TrqLOA_X_Kph_u10p6[1]	18560		
t_TrqLOA_X_Kph_u10p6[2]	18624		
t_TrqLOA_X_Kph_u10p6[3]	18688		
t_TrqLOA_X_Kph_u10p6[4]	18752		
t_TrqLOA_X_Kph_u10p6[5]	18816		
t_TrqLOA_X_Kph_u10p6[6]	18880		
t_TrqLOA_X_Kph_u10p6[7]	18944		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.179282784		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.75306058		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1672.7135		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	459.640747		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	447.106415		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.914120018	0.914120018	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.564272463	0.564272463 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.931275249	-0.931275189 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	

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TrqLOA\_Per1

Test Step 2.138 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.449999988
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0125000002
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-8.20992279
TrqLOA_TloaCmd_MtrNm_M_f32	1.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.30465853
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	6.82178497
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	443.192719
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-5.55758905
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	49.3378868
k_TrqLOA_FallingRampRate_UlspS_f32	-982.800964
k_TrqLOA_LatAccConversionFactor_Uls_f32	2.51905036
k_TrqLOA_LimOutput_MtrNm_f32	7.80701733
k_TrqLOA_MaxScaleFactor_Uls_f32	0.465555906
k_TrqLOA_MinScaleFactor_Uls_f32	0.111157894
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.3324821
k_TrqLOA_RisingRampRate_UlspS_f32	328.660156
k_TrqLOA_SteerRatio_Uls_f32	74.9874039
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	7.12618113
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	10486
t_TrqLOA_DiffGainX_G_u2p14[1]	11469
t_TrqLOA_DiffGainX_G_u2p14[2]	12780
t_TrqLOA_DiffGainX_G_u2p14[3]	16384
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	14720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	15040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	15360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	15680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	16000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624		
t_TrqLOA_X_Kph_u10p6[0]	19008		
t_TrqLOA_X_Kph_u10p6[1]	19072		
t_TrqLOA_X_Kph_u10p6[2]	19136		
t_TrqLOA_X_Kph_u10p6[3]	19200		
t_TrqLOA_X_Kph_u10p6[4]	19264		
t_TrqLOA_X_Kph_u10p6[5]	19328		
t_TrqLOA_X_Kph_u10p6[6]	19392		
t_TrqLOA_X_Kph_u10p6[7]	19456		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-2.65734434		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	269.040253		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-753.235291		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	460.389832		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.988884807	0.988884807	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.435756564	0.435756564 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.42870152	-0.42870155 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.42870152	-0.42870155 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.111157894	0.111157894 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.42870152	-0.42870155 ± 0.01	✔

Test Step 2.139 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.479095101			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.5			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.714999974			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	2.836766			
TrqLOA_TloaCmd_MtrNm_M_f32	2			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.11573696			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	640.632874			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-18.1904697			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	19.0191021			
k_TrqLOA_FallingRampRate_UlspS_f32	-278.38269			
k_TrqLOA_LatAccConversionFactor_Uls_f32	0.360343367			
k_TrqLOA_LimOutput_MtrNm_f32	4.73701429			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.513206601			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019			
k_TrqLOA_RisingRampRate_UlspS_f32	716.262695			
k_TrqLOA_SteerRatio_Uls_f32	13.2766314			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	6.08591223			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	12288
t_TrqLOA_DiffGainX_G_u2p14[1]	13271
t_TrqLOA_DiffGainX_G_u2p14[2]	14909
t_TrqLOA_DiffGainX_G_u2p14[3]	19661
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443
t_TrqLOA_X_Kph_u10p6[0]	19520
t_TrqLOA_X_Kph_u10p6[1]	19584
t_TrqLOA_X_Kph_u10p6[2]	19648
t_TrqLOA_X_Kph_u10p6[3]	19712
t_TrqLOA_X_Kph_u10p6[4]	19776
t_TrqLOA_X_Kph_u10p6[5]	19840
t_TrqLOA_X_Kph_u10p6[6]	19904
t_TrqLOA_X_Kph_u10p6[7]	19968
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc

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Name	Input Value		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.803684115		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-1.85368073		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-136.57225		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-349.744446		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	320.258331		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.442714155	0.442714155	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	-1.13392997	-1.13392997 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.44323468	1.44323468 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.140 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.248834133			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.5			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.02403057			
TrqLOA_TloaCmd_MtrNm_M_f32	1			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.991099596			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.02691031			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	117.90097			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-83.1473618			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	42.0359383			
k_TrqLOA_FallingRampRate_UlspS_f32	-36.5625839			
k_TrqLOA_LatAccConversionFactor_Uls_f32	6.11463165			
k_TrqLOA_LimOutput_MtrNm_f32	6.10116196			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.183480024			
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019			
k_TrqLOA_RisingRampRate_UlspS_f32	569.790222			
k_TrqLOA_SteerRatio_Uls_f32	68.2026367			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0847294927			
k_TrqLOA_Wheelbase_M_f32	18.9199467			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158			



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TrqLOA\_Per1

Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107		
t_TrqLOA_DiffGainX_G_u2p14[0]	14090		
t_TrqLOA_DiffGainX_G_u2p14[1]	15073		
t_TrqLOA_DiffGainX_G_u2p14[2]	17039		
t_TrqLOA_DiffGainX_G_u2p14[3]	22938		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262		
t_TrqLOA_X_Kph_u10p6[0]	20032		
t_TrqLOA_X_Kph_u10p6[1]	20096		
t_TrqLOA_X_Kph_u10p6[2]	20160		
t_TrqLOA_X_Kph_u10p6[3]	20224		
t_TrqLOA_X_Kph_u10p6[4]	20288		
t_TrqLOA_X_Kph_u10p6[5]	20352		
t_TrqLOA_X_Kph_u10p6[6]	20416		
t_TrqLOA_X_Kph_u10p6[7]	20480		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.923748732		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-2.79451799		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	676.599976		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-984.367676		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	241.496582		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.332906008	0.332906008	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	-0.724869788	-0.724869788 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-0.0118510947	-0.0118510956 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-0.0118510947	-0.0118510956 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.148480892	0.148480892 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.0118510947	-0.0118510956 ± 0.01	✔

## Test Case 3: Path Test

## Specification

Performance Metrics:  
(With "None" Instrumentation and "WithPS"  
Environment)

CPU Cycles:

TS3.1 730 Cycles  
TS3.2 833 Cycles  
TS3.3 717 Cycles  
TS3.4 716 Cycles  
TS3.5 719 Cycles  
TS3.6 668 Cycles  
TS3.7 725 Cycles  
TS3.8 734 Cycles  
TS3.9 741 Cycles  
TS3.10 725 Cycles  
TS3.11 793 Cycles  
TS3.12 729 Cycles

## Description

Vector Description:

TS3.1(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=TRUE  
TS3.2(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=TRUE  
TS3.3'(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE  
(NomDrvTrq\_MtrNm\_T\_f32 < (-k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE"  
TS3.4'(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE  
(NomDrvTrq\_MtrNm\_T\_f32 < (-k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE"  
TS3.5(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=TRUE  
TS3.6'(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE  
(NomDrvTrq\_MtrNm\_T\_f32 < (-k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE"  
TS3.7'(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE  
(NomDrvTrq\_MtrNm\_T\_f32 < (-k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=TRUE"  
TS3.8'(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE  
(NomDrvTrq\_MtrNm\_T\_f32 < (-k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=TRUE"  
TS3.9'(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE  
(NomDrvTrq\_MtrNm\_T\_f32 < (-k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE"  
TS3.10(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=TRUE  
TS3.11'(NomDrvTrq\_MtrNm\_T\_f32 > k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE  
(NomDrvTrq\_MtrNm\_T\_f32 < (-k\_TrqLOA\_NomDrvTrq\_MtrNm\_f32)=FALSE"  
TS3.12iff((TrqLOA\_ScaledMtrTrqCmd\_MtrNm\_M\_f32 >= k\_TrqLOA\_AbsAssistThreshold\_MtrNm\_f32) && (MtrVel\_MtrRadpS\_T\_f32 >=  
k\_TrqLOA\_AbsVelThreshold\_MtrRadpS\_f32))=TRUE

## Test Step 3.1 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.985183835
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0130000003
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.7119751
TrqLOA_TloaCmd_MtrNm_M_f32	-8
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.970122039
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.60568953
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	135.044952
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-98.6264648
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	27.9837322
k_TrqLOA_FallingRampRate_UlspS_f32	-285.769348
k_TrqLOA_LatAccConversionFactor_Uls_f32	5.11622667
k_TrqLOA_LimOutput_MtrNm_f32	2.05712366
k_TrqLOA_MaxScaleFactor_Uls_f32	0.47853148
k_TrqLOA_MinScaleFactor_Uls_f32	0.21500051
k_TrqLOA_NomDrvTrq_MtrNm_f32	2.11723351
k_TrqLOA_RisingRampRate_UlspS_f32	775.606445
k_TrqLOA_SterRatio_Uls_f32	27.0728893
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0683564693
k_TrqLOA_Wheelbase_M_f32	20
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655

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Name	Input Value		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915		
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226		
t_TrqLOA_DiffGainX_G_u2p14[0]	328		
t_TrqLOA_DiffGainX_G_u2p14[1]	1229		
t_TrqLOA_DiffGainX_G_u2p14[2]	2458		
t_TrqLOA_DiffGainX_G_u2p14[3]	3113		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	320		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	640		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	960		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	1280		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	1600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4096		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	8192		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	14336		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	17613		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	22528		
t_TrqLOA_X_Kph_u10p6[0]	64		
t_TrqLOA_X_Kph_u10p6[1]	128		
t_TrqLOA_X_Kph_u10p6[2]	192		
t_TrqLOA_X_Kph_u10p6[3]	256		
t_TrqLOA_X_Kph_u10p6[4]	320		
t_TrqLOA_X_Kph_u10p6[5]	384		
t_TrqLOA_X_Kph_u10p6[6]	448		
t_TrqLOA_X_Kph_u10p6[7]	512		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.205600679		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1986.76208		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	290.911285		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	392.295563		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.787930906	0.787930906	✓

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Name	Actual Value	Expected Value	Result
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.127424985	0.127424985 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.465865254	0.465865254 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0.465865254	0.465865254 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.21500051	0.21500051 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.465865254	0.465865254 ± 0.01	✓

## Test Step 3.2 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0135000004
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019
TrqLOA_TloaCmd_MtrNm_M_f32	-7.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.399481773
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.01481533
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	479.457977
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-27.0471287
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	59.5514755
k_TrqLOA_FallingRampRate_UlspS_f32	-645.648438
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.51897812
k_TrqLOA_LimOutput_MtrNm_f32	1.56783617
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.791850328
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019
k_TrqLOA_RisingRampRate_UlspS_f32	618.79248
k_TrqLOA_SteerRatio_Uls_f32	37.3851547
k_TrqLOA_UndersteerGrad_RadpG_f32	0.0208133459
k_TrqLOA_Wheelbase_M_f32	7.83032274
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096
t_TrqLOA_DiffGainX_G_u2p14[2]	4751
t_TrqLOA_DiffGainX_G_u2p14[3]	4915
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	1920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	2240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	2560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	2880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	3200

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Name	Input Value		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	4915		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	9421		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15155		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16384		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	18432		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20070		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	23347		
t_TrqLOA_X_Kph_u10p6[0]	576		
t_TrqLOA_X_Kph_u10p6[1]	640		
t_TrqLOA_X_Kph_u10p6[2]	704		
t_TrqLOA_X_Kph_u10p6[3]	768		
t_TrqLOA_X_Kph_u10p6[4]	832		
t_TrqLOA_X_Kph_u10p6[5]	896		
t_TrqLOA_X_Kph_u10p6[6]	960		
t_TrqLOA_X_Kph_u10p6[7]	1024		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.305431128		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-112.906868		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	963.27478		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	9.5098877		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.945905745	0.945905745	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.148525566	0.148525566 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.791850328	0.791850328 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

## Test Step 3.3 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.386923671
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.400000006
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0160000008
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-2.25017142
TrqLOA_TloaCmd_MtrNm_M_f32	-5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.50114989
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.29628921
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	118.545525
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-97.4050827
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	65.1571655
k_TrqLOA_FallingRampRate_UlspS_f32	-180.683548
k_TrqLOA_LatAccConversionFactor_Uls_f32	9.771945

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Name	Input Value
k_TrqLOA_LimOutput_MtrNm_f32	0.855211735
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	0.73919785
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.23845387
k_TrqLOA_RisingRampRate_UlspS_f32	282.893677
k_TrqLOA_SteerRatio_Uls_f32	74.9537659
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	6.75685263
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	12288
t_TrqLOA_DiffGainX_G_u2p14[1]	13271
t_TrqLOA_DiffGainX_G_u2p14[2]	14909
t_TrqLOA_DiffGainX_G_u2p14[3]	19661
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	9920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	10240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	10560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	10880
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	11200
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443
t_TrqLOA_X_Kph_u10p6[0]	3136
t_TrqLOA_X_Kph_u10p6[1]	3200
t_TrqLOA_X_Kph_u10p6[2]	3264

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Name	Input Value		
t_TrqLOA_X_Kph_u10p6[3]	3328		
t_TrqLOA_X_Kph_u10p6[4]	3392		
t_TrqLOA_X_Kph_u10p6[5]	3456		
t_TrqLOA_X_Kph_u10p6[6]	3520		
t_TrqLOA_X_Kph_u10p6[7]	3584		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.0280352831		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.22382641		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-442.008911		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	0		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	232.319672		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.299987793	0.299987793	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.393600017	0.393599987 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.935362518	-0.935362577 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

Test Step 3.4 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	1			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.449999988			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0164999999			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019			
TrqLOA_TloaCmd_MtrNm_M_f32	-4.5			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.39562833			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.50173283			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	273.207611			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-36.3950081			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	24.804491			
k_TrqLOA_FallingRampRate_UlspS_f32	-524.556824			
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.5640192			
k_TrqLOA_LimOutput_MtrNm_f32	3.37794185			
k_TrqLOA_MaxScaleFactor_Uls_f32	0.959547281			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	3.03419685			
k_TrqLOA_RisingRampRate_UlspS_f32	12.2064705			
k_TrqLOA_SteerRatio_Uls_f32	40.7518044			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	16.9196377			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107			



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TrqLOA\_Per1

Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	14090
t_TrqLOA_DiffGainX_G_u2p14[1]	15073
t_TrqLOA_DiffGainX_G_u2p14[2]	17039
t_TrqLOA_DiffGainX_G_u2p14[3]	22938
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	11520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	11840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	12160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	12480
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	12800
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9830
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	20070
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18842
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24986
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	29082
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	28262
t_TrqLOA_X_Kph_u10p6[0]	3648
t_TrqLOA_X_Kph_u10p6[1]	3712
t_TrqLOA_X_Kph_u10p6[2]	3776
t_TrqLOA_X_Kph_u10p6[3]	3840
t_TrqLOA_X_Kph_u10p6[4]	3904
t_TrqLOA_X_Kph_u10p6[5]	3968
t_TrqLOA_X_Kph_u10p6[6]	4032
t_TrqLOA_X_Kph_u10p6[7]	4096
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.578490138
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1839.10022
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-592
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	265.125061

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TrqLOA\_Per1

Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.927209973	0.927209973	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.427665889	0.427663118 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.19882917	-3.19882917 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	-3.19882917	-3.19882917 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-3.19882917	-3.19882917 ± 0.01	✓

## Test Step 3.5 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.649999976
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0185000002
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	7.2180357
TrqLOA_TloaCmd_MtrNm_M_f32	-2.5
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.340875268
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	9.84898376
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	846.358887
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-77.936348
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	72.3617096
k_TrqLOA_FallingRampRate_UlspS_f32	-861.899231
k_TrqLOA_LatAccConversionFactor_Uls_f32	7.44272804
k_TrqLOA_LimOutput_MtrNm_f32	1.15138853
k_TrqLOA_MaxScaleFactor_Uls_f32	0.901087523
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	7.09603024
k_TrqLOA_RisingRampRate_UlspS_f32	583.057068
k_TrqLOA_SteerRatio_Uls_f32	28.1238441
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	5.62831402
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	9830
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	6554
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	8192
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	9503
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	9830
t_TrqLOA_DiffGainX_G_u2p14[0]	3277
t_TrqLOA_DiffGainX_G_u2p14[1]	4096
t_TrqLOA_DiffGainX_G_u2p14[2]	4751
t_TrqLOA_DiffGainX_G_u2p14[3]	4915
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	17920
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	18240
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	18560
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	18880

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Name	Input Value		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	19200		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	13107		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	21709		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	23347		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	20480		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	26624		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	28262		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	33997		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	31539		
t_TrqLOA_X_Kph_u10p6[0]	5696		
t_TrqLOA_X_Kph_u10p6[1]	5760		
t_TrqLOA_X_Kph_u10p6[2]	5824		
t_TrqLOA_X_Kph_u10p6[3]	5888		
t_TrqLOA_X_Kph_u10p6[4]	5952		
t_TrqLOA_X_Kph_u10p6[5]	6016		
t_TrqLOA_X_Kph_u10p6[6]	6080		
t_TrqLOA_X_Kph_u10p6[7]	6144		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.828065395		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-10		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1079.4718		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-804.789978		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	362.635925		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.844127297	0.844127297	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.601803422	0.601803422 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-3.24986959	-3.24986959 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	-1.15138853	-1.15138853 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1	1 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-1.15138853	-1.15138853 ± 0.01	✔

Test Step 3.6 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA	
TrqLOA_LatAccScaleFactor_Uls_M_f32	0	
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.150000006	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0434999987	
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.800000019	
TrqLOA_TloaCmd_MtrNm_M_f32	6	
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.200000003	
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.98309565	
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	909.534851	
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-24.0498333	
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	0	
k_TrqLOA_FallingRampRate_UlspS_f32	-1000	

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Name	Input Value
k_TrqLOA_LatAccConversionFactor_Uls_f32	8.6829052
k_TrqLOA_LimOutput_MtrNm_f32	3.57006645
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.726554036
k_TrqLOA_RisingRampRate_UlspS_f32	0
k_TrqLOA_SteerRatio_Uls_f32	6.56352139
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	3.98621607
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	32768
t_TrqLOA_DiffGainX_G_u2p14[0]	32768
t_TrqLOA_DiffGainX_G_u2p14[1]	32768
t_TrqLOA_DiffGainX_G_u2p14[2]	32768
t_TrqLOA_DiffGainX_G_u2p14[3]	32768
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	0
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	32768
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	32768
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	32768
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	32768
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	11469
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	19661
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	24986
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	26624
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	31539
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	29901
t_TrqLOA_X_Kph_u10p6[0]	6208
t_TrqLOA_X_Kph_u10p6[1]	6272

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Name	Input Value		
t_TrqLOA_X_Kph_u10p6[2]	6336		
t_TrqLOA_X_Kph_u10p6[3]	6400		
t_TrqLOA_X_Kph_u10p6[4]	6464		
t_TrqLOA_X_Kph_u10p6[5]	6528		
t_TrqLOA_X_Kph_u10p6[6]	6592		
t_TrqLOA_X_Kph_u10p6[7]	6656		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.825533628		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.187185764		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	1207.13953		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	863.729614		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	0		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	157.958984		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0	0	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.513088524	0.513088584	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.200000003	0.200000003	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0	✓

Test Step 3.7 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.738416195			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.550000012			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0355000012			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-8.80000019			
TrqLOA_TloaCmd_MtrNm_M_f32	-2			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.85944247			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	8.13665009			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	70.0263748			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-8.00514412			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	99.516716			
k_TrqLOA_FallingRampRate_UlspS_f32	-163.67894			
k_TrqLOA_LatAccConversionFactor_Uls_f32	10			
k_TrqLOA_LimOutput_MtrNm_f32	2.33877659			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	1			
k_TrqLOA_NomDrvTrq_MtrNm_f32	1.78339124			
k_TrqLOA_RisingRampRate_UlspS_f32	36.7966118			
k_TrqLOA_SteerRatio_Uls_f32	17.9014683			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	14.6375256			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	10486
t_TrqLOA_DiffGainX_G_u2p14[1]	11469
t_TrqLOA_DiffGainX_G_u2p14[2]	12780
t_TrqLOA_DiffGainX_G_u2p14[3]	16384
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	1280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	1600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	20480
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	21299
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	24576
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	25395
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	28672
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	29491
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	32768
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	33587
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	9011
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	15565
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	24166
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	27853
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	27443
t_TrqLOA_X_Kph_u10p6[0]	23104
t_TrqLOA_X_Kph_u10p6[1]	23168
t_TrqLOA_X_Kph_u10p6[2]	23232
t_TrqLOA_X_Kph_u10p6[3]	23296
t_TrqLOA_X_Kph_u10p6[4]	23360
t_TrqLOA_X_Kph_u10p6[5]	23424
t_TrqLOA_X_Kph_u10p6[6]	23488
t_TrqLOA_X_Kph_u10p6[7]	23552
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.200104475
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.82459116
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-1454.8761
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	67.0191269
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	444.720215

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TrqLOA\_Per1

Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.72240591	0.72240591	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.539416969	0.539416969 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0.101881564	0.101881497 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0.101881564	0.101881497 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	1.53208458	1.53208458 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.101881564	0.101881497 ± 0.01	✓

## Test Step 3.8 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.200000003
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0140000004
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-5.65911293
TrqLOA_TloaCmd_MtrNm_M_f32	-7
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.847059309
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	8.3897934
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	292.217896
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-57.2000008
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	35.2165909
k_TrqLOA_FallingRampRate_UlspS_f32	-665.315002
k_TrqLOA_LatAccConversionFactor_Uls_f32	3.95698261
k_TrqLOA_LimOutput_MtrNm_f32	2.75277615
k_TrqLOA_MaxScaleFactor_Uls_f32	0.694187999
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.71295547
k_TrqLOA_RisingRampRate_UlspS_f32	72.5325775
k_TrqLOA_SteerRatio_Uls_f32	48.5321007
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	19.8064346
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	13107
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	10158
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	12124
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	12780
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	13107
t_TrqLOA_DiffGainX_G_u2p14[0]	5079
t_TrqLOA_DiffGainX_G_u2p14[1]	6062
t_TrqLOA_DiffGainX_G_u2p14[2]	6390
t_TrqLOA_DiffGainX_G_u2p14[3]	6554
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	3520
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	3840
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	4160
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	4480



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Name	Input Value		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	4800		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166		
t_TrqLOA_X_Kph_u10p6[0]	1088		
t_TrqLOA_X_Kph_u10p6[1]	1152		
t_TrqLOA_X_Kph_u10p6[2]	1216		
t_TrqLOA_X_Kph_u10p6[3]	1280		
t_TrqLOA_X_Kph_u10p6[4]	1344		
t_TrqLOA_X_Kph_u10p6[5]	1408		
t_TrqLOA_X_Kph_u10p6[6]	1472		
t_TrqLOA_X_Kph_u10p6[7]	1536		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.87261653		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	829.04834		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	-375.864563		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	126.835663		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.885599971	0.88560003	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.192544758	0.192544758 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.701994181	-0.701994181 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	1	1	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 3.9 (Repeat Count = 1)			✓
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.505558729		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.25		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0205000006		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	4.91599369		
TrqLOA_TloaCmd_MtrNm_M_f32	-0.5		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-1.51502144		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	4.62375116		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	245.138199		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-41.4325523		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	75.942955		
k_TrqLOA_FallingRampRate_UlspS_f32	-920.135132		

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Name	Input Value
k_TrqLOA_LatAccConversionFactor_Uls_f32	4.55265713
k_TrqLOA_LimOutput_MtrNm_f32	5.21092319
k_TrqLOA_MaxScaleFactor_Uls_f32	0.378737688
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019
k_TrqLOA_RisingRampRate_UlspS_f32	350.725677
k_TrqLOA_SteerRatio_Uls_f32	83.0911789
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	9.46714211
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	10486
t_TrqLOA_DiffGainX_G_u2p14[1]	11469
t_TrqLOA_DiffGainX_G_u2p14[2]	12780
t_TrqLOA_DiffGainX_G_u2p14[3]	16384
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	1280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	1600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	16384
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	19661
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	53248
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	54067
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	56115
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	56934
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	58163
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	60211
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	60621
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61030
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	5734
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	10650
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	15974
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	16794
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	19251
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	22938
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	24166
t_TrqLOA_X_Kph_u10p6[0]	7744
t_TrqLOA_X_Kph_u10p6[1]	7808

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Name	Input Value		
t_TrqLOA_X_Kph_u10p6[2]	7872		
t_TrqLOA_X_Kph_u10p6[3]	7936		
t_TrqLOA_X_Kph_u10p6[4]	8000		
t_TrqLOA_X_Kph_u10p6[5]	8064		
t_TrqLOA_X_Kph_u10p6[6]	8128		
t_TrqLOA_X_Kph_u10p6[7]	8192		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-6.5		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_Igc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-326.482697		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	357.54599		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	155.51593		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.42269361	0.42269361	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.250011116	0.250011116 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	-0.813570082	-0.813570082 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 3.10 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA			
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.774724126			
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.100000001			
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0489999987			
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-7.1575346			
TrqLOA_TloaCmd_MtrNm_M_f32	-6			
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2			
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	3.2461462			
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	481.298553			
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-65.9383087			
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	81.4572144			
k_TrqLOA_FallingRampRate_UlspS_f32	-945.174316			
k_TrqLOA_LatAccConversionFactor_Uls_f32	10			
k_TrqLOA_LimOutput_MtrNm_f32	5.79835415			
k_TrqLOA_MaxScaleFactor_Uls_f32	1			
k_TrqLOA_MinScaleFactor_Uls_f32	0.219910979			
k_TrqLOA_NomDrvTrq_MtrNm_f32	5.00554752			
k_TrqLOA_RisingRampRate_UlspS_f32	222.336975			
k_TrqLOA_SteerRatio_Uls_f32	90.237648			
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25			
k_TrqLOA_Wheelbase_M_f32	7.58481121			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	4915			
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	6226			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	655			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	2458			
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	4915			

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Name	Input Value
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	6226
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	655
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	2458
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	4915
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	6226
t_TrqLOA_DiffGainX_G_u2p14[0]	328
t_TrqLOA_DiffGainX_G_u2p14[1]	1229
t_TrqLOA_DiffGainX_G_u2p14[2]	2458
t_TrqLOA_DiffGainX_G_u2p14[3]	3113
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	16320
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	16640
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	16960
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	17280
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	17600
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	0
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	0
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	36864
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	37683
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	40960
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	41779
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	45056
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	45875
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	49152
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	49971
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	8192
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	14336
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	18432
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	18022
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	21709
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	23347
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	26624
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	26624
t_TrqLOA_X_Kph_u10p6[0]	10816
t_TrqLOA_X_Kph_u10p6[1]	10880
t_TrqLOA_X_Kph_u10p6[2]	10944
t_TrqLOA_X_Kph_u10p6[3]	11008
t_TrqLOA_X_Kph_u10p6[4]	11072
t_TrqLOA_X_Kph_u10p6[5]	11136
t_TrqLOA_X_Kph_u10p6[6]	11200
t_TrqLOA_X_Kph_u10p6[7]	11264
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-6.53060865
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	188.256973
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	179.700195
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	255.015533

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TrqLOA\_Per1

Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.642847538	0.642847478	✓
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.101530932	0.101530932 ± 0.01	✓
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TloaCmd_MtrNm_M_f32	0	0 ± 0.01	✓
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.219910979	0.219910979 ± 0.01	✓
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✓
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✓

## Test Step 3.11 (Repeat Count = 1)



Name	Input Value
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA
TrqLOA_LatAccScaleFactor_Uls_M_f32	1
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.670000017
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.714999974
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	8.80000019
TrqLOA_TloaCmd_MtrNm_M_f32	8.80000019
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	10
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	1000
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	0
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	100
k_TrqLOA_FallingRampRate_UlspS_f32	0
k_TrqLOA_LatAccConversionFactor_Uls_f32	10
k_TrqLOA_LimOutput_MtrNm_f32	8.80000019
k_TrqLOA_MaxScaleFactor_Uls_f32	1
k_TrqLOA_MinScaleFactor_Uls_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	8.80000019
k_TrqLOA_RisingRampRate_UlspS_f32	1000
k_TrqLOA_SteerRatio_Uls_f32	100
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	20
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	32768
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	32768
t_TrqLOA_DiffGainX_G_u2p14[0]	32768
t_TrqLOA_DiffGainX_G_u2p14[1]	32768
t_TrqLOA_DiffGainX_G_u2p14[2]	32768
t_TrqLOA_DiffGainX_G_u2p14[3]	32768
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	25600
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	25600
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	25600
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	25600

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	25600		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	32768		
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	32768		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	61440		
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	61440		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	36045		
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	36045		
t_TrqLOA_X_Kph_u10p6[0]	25600		
t_TrqLOA_X_Kph_u10p6[1]	25600		
t_TrqLOA_X_Kph_u10p6[2]	25600		
t_TrqLOA_X_Kph_u10p6[3]	25600		
t_TrqLOA_X_Kph_u10p6[4]	25600		
t_TrqLOA_X_Kph_u10p6[5]	25600		
t_TrqLOA_X_Kph_u10p6[6]	25600		
t_TrqLOA_X_Kph_u10p6[7]	25600		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_lgc	target_TrqLOA_Per1_LatAccelValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_lgc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	1		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_lgc.value	1		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	2000		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	1000		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	511		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	1	1	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.671402872	0.671402872 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.27943039	1.2794311 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	1.27943039	1.2794311 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2	2 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	1.27943039	1.2794311 ± 0.01	✔

Test Step 3.12 (Repeat Count = 1)			✓
Name	Input Value		
Rte_Inst_Ap_TrqLOA	target_Rte_Inst_Ap_TrqLOA		
TrqLOA_LatAccScaleFactor_Uls_M_f32	1		
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.300000012		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0149999997		
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	-6.72275496		
TrqLOA_TloaCmd_MtrNm_M_f32	-6		
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	2		
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	2.17499852		
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	347.261871		
k_TrqLOA_DiffScaleRateLimiterFalling_UlspS_f32	-44.840065		
k_TrqLOA_DiffScaleRateLimiterRising_UlspS_f32	86.2324982		
k_TrqLOA_FallingRampRate_UlspS_f32	-756.371094		

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TrqLOA\_Per1

Name	Input Value
k_TrqLOA_LatAccConversionFactor_Uls_f32	1.32888663
k_TrqLOA_LimOutput_MtrNm_f32	0.718581259
k_TrqLOA_MaxScaleFactor_Uls_f32	0.774256825
k_TrqLOA_MinScaleFactor_Uls_f32	0.954615474
k_TrqLOA_NomDrvTrq_MtrNm_f32	0.232903108
k_TrqLOA_RisingRampRate_UlspS_f32	62.9472733
k_TrqLOA_SteerRatio_Uls_f32	96.6698685
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	17.6621571
t2_TrqLOA_DiffGainY_Uls_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_Uls_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_Uls_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_Uls_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_Uls_u1p15[7][3]	26214
t_TrqLOA_DiffGainX_G_u2p14[0]	8684
t_TrqLOA_DiffGainX_G_u2p14[1]	9667
t_TrqLOA_DiffGainX_G_u2p14[2]	10650
t_TrqLOA_DiffGainX_G_u2p14[3]	13107
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[0]	6720
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[1]	7040
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[2]	7360
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[3]	7680
t_TrqLOA_HighSpeedTrqBlend_X_Kph_u10p6[4]	8000
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_Uls_u1p15[4]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[0]	4096
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[1]	4915
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[2]	8192
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[3]	9011
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[4]	12288
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[5]	13107
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[6]	16384
t_TrqLOA_LatAccGain_Y_MtrNmpG_u4p12[7]	17203
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[0]	7373
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[1]	13107
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[2]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[3]	17613
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[4]	20890
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[5]	22528
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[6]	25395
t_TrqLOA_TempTrqCmdSatYTbl_MtrNm_u4p12[7]	25805
t_TrqLOA_X_Kph_u10p6[0]	2112
t_TrqLOA_X_Kph_u10p6[1]	2176



# TEST DETAILS REPORT

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TrqLOA\_Per1

Name	Input Value		
t_TrqLOA_X_Kph_u10p6[2]	2240		
t_TrqLOA_X_Kph_u10p6[3]	2304		
t_TrqLOA_X_Kph_u10p6[4]	2368		
t_TrqLOA_X_Kph_u10p6[5]	2432		
t_TrqLOA_X_Kph_u10p6[6]	2496		
t_TrqLOA_X_Kph_u10p6[7]	2560		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_HandwheelAuthority_Uls_f32	target_TrqLOA_Per1_HandwheelAuthority_Uls_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAcc_MpSecSq_f32	target_TrqLOA_Per1_LatAcc_MpSecSq_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_LatAccelValid_Cnt_Igc	target_TrqLOA_Per1_LatAccelValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_Igc	target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32	target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_RelHwPos_HwDeg_f32	target_TrqLOA_Per1_RelHwPos_HwDeg_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOAAvail_Cnt_Igc	target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_TrqLOACmd_MtrNm_f32	target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc	target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc		
target_Rte_Inst_Ap_TrqLOA.TrqLOA_Per1_VehicleSpeed_Kph_f32	target_TrqLOA_Per1_VehicleSpeed_Kph_f32		
target_TrqLOA_Per1_HandwheelAuthority_Uls_f32.value	0.603896022		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	6.27994013		
target_TrqLOA_Per1_LatAccelValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgnEn_Cnt_Igc.value	0		
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	143.502243		
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	1000		
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_Igc.value	1		
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	469.321564		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccScaleFactor_Uls_M_f32	0.910319865	0.910319865	✔
TrqLOA_LatAccelSV_g_M_Str.SV_Uls_f32	0.305908352	0.305908352 ± 0.01	✔
TrqLOA_ScaledMtrTrqCmd_MtrNm_M_f32	1.16507566	1.16507542 ± 0.01	✔
TrqLOA_TloaCmd_MtrNm_M_f32	0.718581259	0.718581259 ± 0.01	✔
TrqLOA_TrqBasedScaleFactor_Uls_M_f32	0.954615474	0.954615474 ± 0.01	✔
target_TrqLOA_Per1_TrqLOAAvail_Cnt_Igc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.718581259	0.718581259 ± 0.01	✔

# TEST DETAILS REPORT

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TrqLOA\_Init1



Project	TrqLOA
Module	TrqLOA
Test Object	TrqLOA_Init1

## Instrumentation: Test Object Only

Statement (C0) Coverage	100 %
Decision Coverage	100 %
Branch (C1) Coverage	100 %
MCC Coverage	100 %
MC/DC Coverage	100 %

## Statistics

Total Testcases	1
Successful	1 ✓
Failed	0
Not Executed	0

## Module Properties

Project Root Directory	D:\Synergy_Work_Area\TrqLOA_SF48A
Configuration File	\$(PROJECTROOT)\UnitTestEnv\config\TMS570_GCC_UDE_CCS4_Config.xml
Target Environment	TI TMS 570 PLS UDE (Default)
Kind of Test	Unit Test
Linker Options	
Source File(s)	
File	\$(PROJECTROOT)\TrqLOA\src\Ap_TrqLOA.c
Compiler Options	-D_DATA_ACCESS= -Dconst= -I\$(PROJECTROOT)\TrqLOA\utp\Contract -I\$(PROJECTROOT)\TrqLOA\utp\Contract\Ap_TrqLOA -I\$(PROJECTROOT)\StdDef\include -I\$(PROJECTROOT)\NxrLib\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5\include
File	\$(PROJECTROOT)\NxrLib\src\interpolation.c
Compiler Options	-D_DATA_ACCESS= -Dconst= -I\$(PROJECTROOT)\TrqLOA\utp\Contract -I\$(PROJECTROOT)\TrqLOA\utp\Contract\Ap_TrqLOA -I\$(PROJECTROOT)\StdDef\include -I\$(PROJECTROOT)\NxrLib\include -I\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5\include

Attributes	
Name	Value
Compiler Install Path	\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5
Float Precision	9
InitObjDir	\$(PROJECTROOT)\UnitTestEnv\static_build_files\obj
InitSrcDir	\$(PROJECTROOT)\UnitTestEnv\static_build_files\src
Linker File	\$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 3.2
Time Unit	Cycles
Timer Enabled	false
Timer Prescale	0
Timer Resolution	1
UDE Config File	\$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg

# TEST DETAILS REPORT

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TrqLOA\_Init1



Workspace File D:\Synergy\_Work\_Area\TrqLOA\_SF48A\UnitTestEnv\config\UDE\_TMS570\_DEBUG.WSP

## Comments/Description/Specification

Name	Text
Module 'TrqLOA'	<p>*****Unit Test Information*****</p> <p>Name of Tester: Priti Mangalekar Code File(s) Under Test: Ap_TrqLOA.c Code File(s) Version: 2 Module Design Document: TrqLOA_MDD.doc Module Design Document Version: 2 Data Dictionary Version: 3 Unit Test Plan Version: 1 Optimization Level: Level 2 Compiler (CodeGen) Version: TMS470_4.9.5 Model Type: Excel Macro Model Version: Nexteer EPS Unit Test Tool 2.7d/ EPS Library 1.32 Total FLASH Used (Bytes): 1378 Total RAM Used (Bytes): 52 Total CALS Used (Bytes): 204 Special Test Requirements: Test Date: 6/23/2015 Comments: "NOTE1: Inline function defined in ""GlobalMacro.h"" are not unit tested.</p> <p>NOTE2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference."</p> <p>*****</p>

# TEST DETAILS REPORT

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TrqLOA\_Init1



## Test Case 1: Boundary Test

Specification	Performance Metrics: (With "None" Instrumentation and "WithPS" Environment)
	CPU Cycles: TS1.1 111 Cycles TS1.2 113 Cycles TS1.3 110 Cycles TS1.4 112 Cycles TS1.5 110 Cycles TS1.6 110 Cycles TS1.7 110 Cycles TS1.8 112 Cycles
Description	Vector Description: TS1.1All Min TS1.2All Max TS1.3k_TrqLOA_LPF_Hz_f32=Min TS1.4k_TrqLOA_LPF_Hz_f32=Max TS1.5k_TrqLOA_LPF_Hz_f32=Mid TS1.6TrqLOA_LatAccelSV_g_M_Str.K=Min TS1.7TrqLOA_LatAccelSV_g_M_Str.K=Max TS1.8TrqLOA_LatAccelSV_g_M_Str.K=Mid

### Test Step 1.1 (Repeat Count = 1)

Name	Input Value		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.00125584798		
k_TrqLOA_LPF_Hz_f32	0.100000001		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.00125586987	0.00125584798 ± 0.01	✓

### Test Step 1.2 (Repeat Count = 1)

Name	Input Value		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.956786096		
k_TrqLOA_LPF_Hz_f32	250		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.956786096	0.956786096 ± 0.01	✓

### Test Step 1.3 (Repeat Count = 1)

Name	Input Value		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0149999997		
k_TrqLOA_LPF_Hz_f32	0.100000001		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.00125586987	0.00125584798 ± 0.01	✓

### Test Step 1.4 (Repeat Count = 1)

Name	Input Value		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.25		
k_TrqLOA_LPF_Hz_f32	250		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.956786096	0.956786096 ± 0.01	✓

### Test Step 1.5 (Repeat Count = 1)

Name	Input Value		
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.5		
k_TrqLOA_LPF_Hz_f32	125.5		
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.79342252	0.793422461 ± 0.01	✓

# TEST DETAILS REPORT

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TrqLOA\_Init1



## Test Step 1.6 (Repeat Count = 1)

Name		Input Value	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32		0.00125584798	
k_TrqLOA_LPF_Hz_f32		2	
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0248195529	0.0248195436 ± 0.01	✓

## Test Step 1.7 (Repeat Count = 1)

Name		Input Value	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32		0.956786096	
k_TrqLOA_LPF_Hz_f32		10	
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.118088603	0.118088625 ± 0.01	✓

## Test Step 1.8 (Repeat Count = 1)

Name		Input Value	
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32		0.349999994	
k_TrqLOA_LPF_Hz_f32		100	
Name	Actual Value	Expected Value	Result
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.715390444	0.715390444 ± 0.01	✓