Summary

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

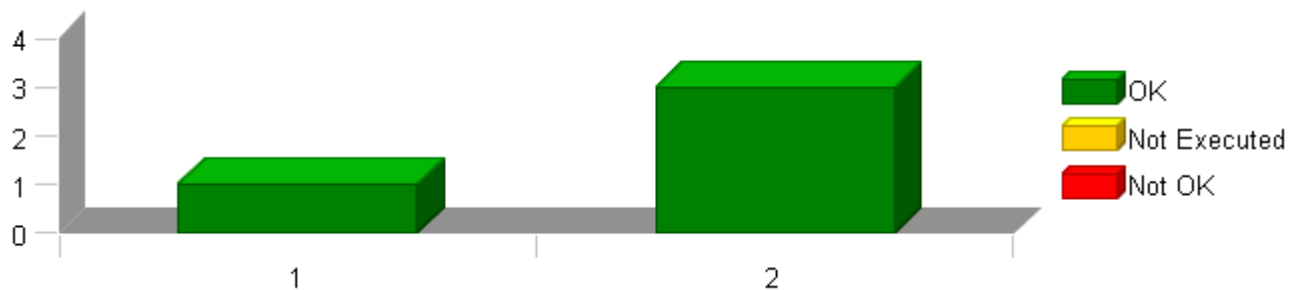## Overall Test Object Results (including Coverage)
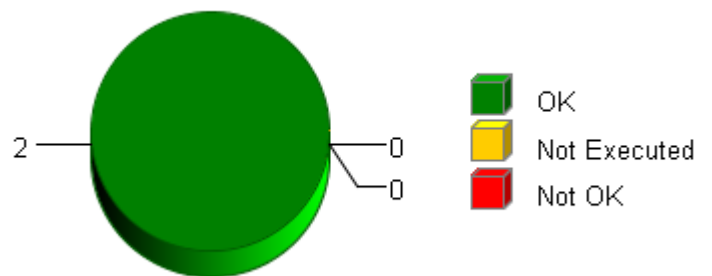
Selected Project Items

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).

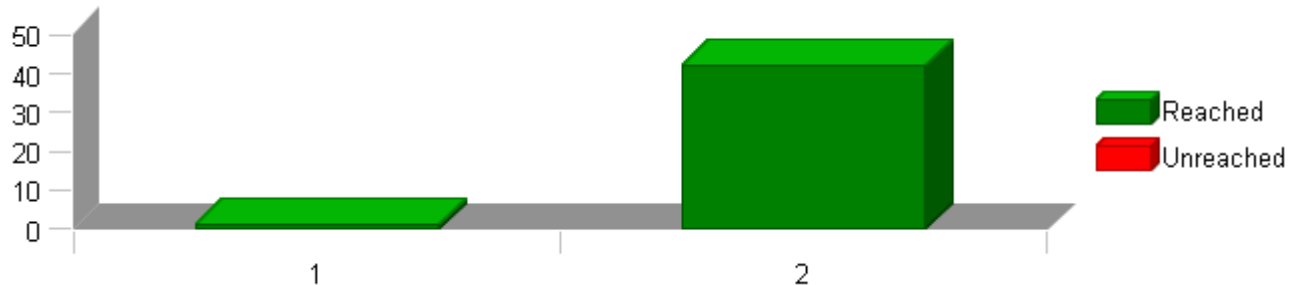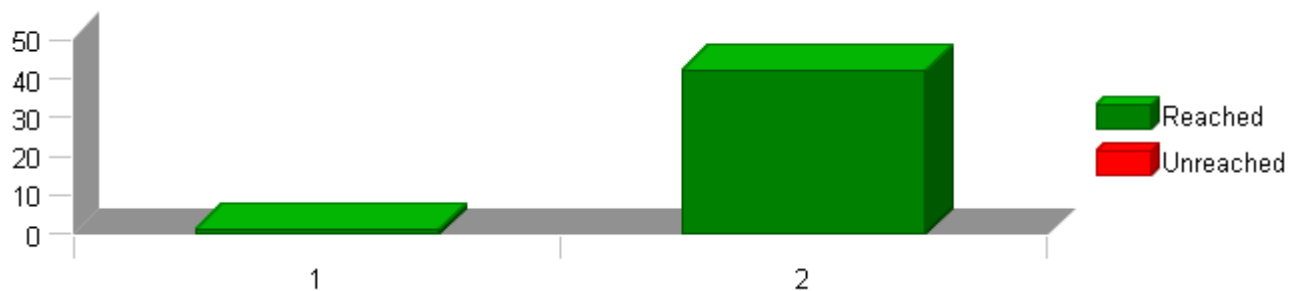## Statement (C0) Coverage: Total Statements for Each Test Object
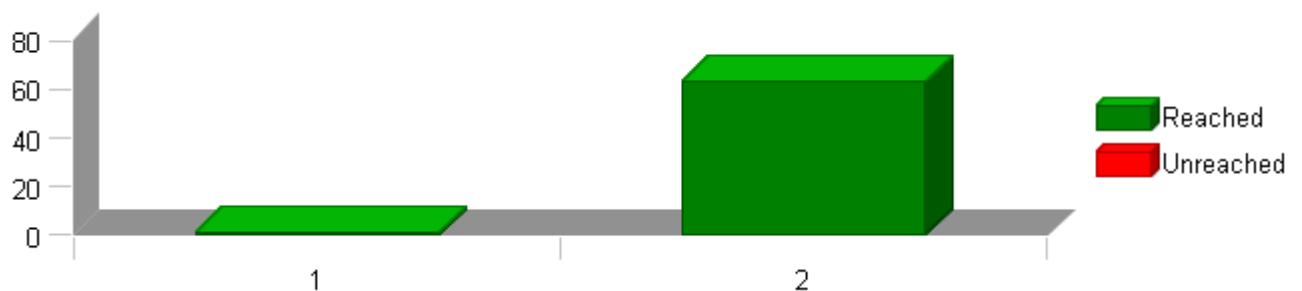
The table above shows each test object on the x axis and the number of statements of the respective test object on the y axis. Each bar is divided into reached statements (i.e. statements that have been executed during the test) and unreached statements.

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.
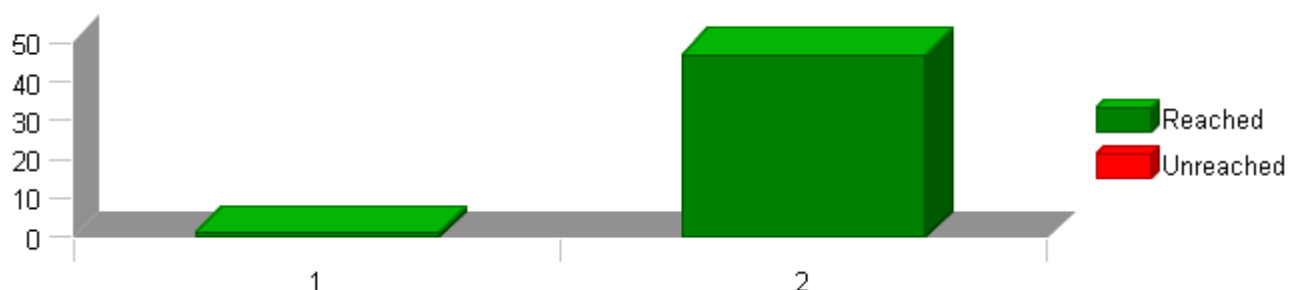
Decision Coverage: Total Decision Outcomes for Each Test Object

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.
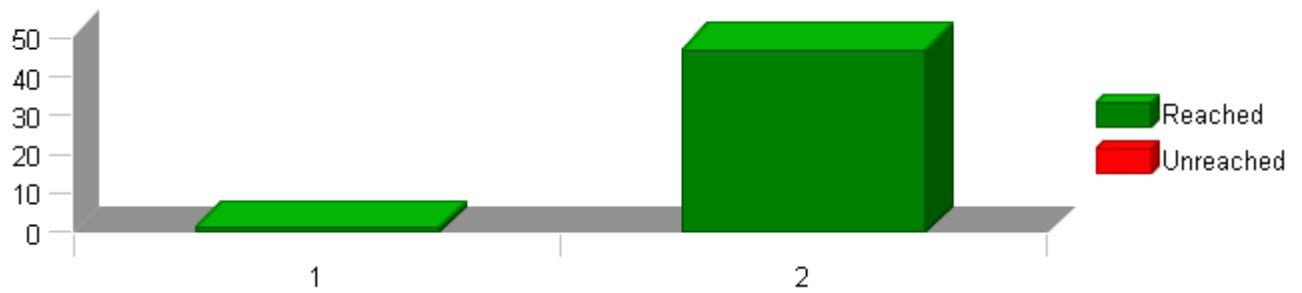
MCC Coverage: Total Condition Combinations for Each Test Object

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 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	TrqLOA_Init1	100 %	100 %	100 %	100 %	100 %	1 of 1 passed	✔
2	TrqLOA_Per1	100 %	100 %	100 %	100 %	100 %	3 of 3 passed	✔

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$(PROJECTROOT)\NxtrLib\include -I$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5\include
File	$(PROJECTROOT)\NxtrLib\src\interpolation.c
Compiler Options	-D_DATA_ACCESS= -Dconst= -I$(PROJECTROOT)\TrqLOA\utp\Contract -I$(PROJECTROOT)\TrqLOA\utp\Contract\Ap_TrqLOA -I$(PROJECTROOT)\StdDef\include -I$(PROJECTROOT)\NxtrLib\include -I$(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

Workspace File	D:\Synergy_Work_Area\TrqLOA_SF48A\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

Comments/Description/Specification	
Name	**Text**
Module 'TrqLOA'	************************Unit Test Information************************ 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. NOTE2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference." **
Test Object 'TrqLOA_Per1'	

Test Case 1: Metrics Test   ✔

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

CPU Cycles:

TS1.1 733 Cycles
TS1.2 667 Cycles
```

Description   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_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	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

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_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	2.87261653
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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	0.399993896	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_lgc.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

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

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_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	0.825533628
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.187185764
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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 Case 2: Boundary Test ✔

Specification

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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
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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
```

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_lgc==>Min
TS2.12LatAccelValid_Cnt_lgc==>Max
TS2.13LatAccelValid_Cnt_lgc==>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_lgc==>Min
TS2.20MotAgLoaMtgtnEn_Cnt_lgc==>Max
TS2.21MotAgLoaMtgtnEn_Cnt_lgc==>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_lgc==>Min
TS2.28VehicleSpeedValid_Cnt_lgc==>Max
TS2.29VehicleSpeedValid_Cnt_lgc==>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

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

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	

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_TloaCmd_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_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		

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_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	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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 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_UlspS_f32	-98.6264648

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

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_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	✓
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 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

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_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

Name	Input Value		
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

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_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	2.87261653
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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 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

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

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_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	0.579124928
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.55771828
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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_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	0.603896022
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	6.27994013
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	143.502243

Name	Input Value			
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	1000			
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.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_lgc.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

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_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	-4.03180599
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	1
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	-970.46582
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	255
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.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_lgc.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

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

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_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 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	0.449999988
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

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

Name	Input Value		
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		

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 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

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

Name	Input Value
k_TrqLOA_AbsAssistThreshold_MtrNm_f32	7.58443165
k_TrqLOA_AbsVelThreshold_MtrRadpS_f32	927.774658
k_TrqLOA_DiffScaleRateLimiterFalling_UIspS_f32	-94.6221161
k_TrqLOA_DiffScaleRateLimiterRising_UIspS_f32	63.6255188
k_TrqLOA_FallingRampRate_UIspS_f32	-313.735229
k_TrqLOA_LatAccConversionFactor_UIs_f32	3.31031489
k_TrqLOA_LimOutput_MtrNm_f32	4.22883606
k_TrqLOA_MaxScaleFactor_UIs_f32	0.838027477
k_TrqLOA_MinScaleFactor_UIs_f32	1
k_TrqLOA_NomDrvTrq_MtrNm_f32	4.91779709
k_TrqLOA_RisingRampRate_UIspS_f32	378.169434
k_TrqLOA_SteerRatio_UIs_f32	21.556879
k_TrqLOA_UndersteerGrad_RadpG_f32	0.25
k_TrqLOA_Wheelbase_M_f32	16.2824841
t2_TrqLOA_DiffGainY_UIs_u1p15[0][0]	17367
t2_TrqLOA_DiffGainY_UIs_u1p15[0][1]	19333
t2_TrqLOA_DiffGainY_UIs_u1p15[0][2]	21299
t2_TrqLOA_DiffGainY_UIs_u1p15[0][3]	26214
t2_TrqLOA_DiffGainY_UIs_u1p15[1][0]	17367
t2_TrqLOA_DiffGainY_UIs_u1p15[1][1]	19333
t2_TrqLOA_DiffGainY_UIs_u1p15[1][2]	21299
t2_TrqLOA_DiffGainY_UIs_u1p15[1][3]	26214
t2_TrqLOA_DiffGainY_UIs_u1p15[2][0]	17367
t2_TrqLOA_DiffGainY_UIs_u1p15[2][1]	19333
t2_TrqLOA_DiffGainY_UIs_u1p15[2][2]	21299
t2_TrqLOA_DiffGainY_UIs_u1p15[2][3]	26214
t2_TrqLOA_DiffGainY_UIs_u1p15[3][0]	17367
t2_TrqLOA_DiffGainY_UIs_u1p15[3][1]	19333
t2_TrqLOA_DiffGainY_UIs_u1p15[3][2]	21299
t2_TrqLOA_DiffGainY_UIs_u1p15[3][3]	26214
t2_TrqLOA_DiffGainY_UIs_u1p15[4][0]	17367
t2_TrqLOA_DiffGainY_UIs_u1p15[4][1]	19333
t2_TrqLOA_DiffGainY_UIs_u1p15[4][2]	21299
t2_TrqLOA_DiffGainY_UIs_u1p15[4][3]	26214
t2_TrqLOA_DiffGainY_UIs_u1p15[5][0]	17367
t2_TrqLOA_DiffGainY_UIs_u1p15[5][1]	19333
t2_TrqLOA_DiffGainY_UIs_u1p15[5][2]	21299
t2_TrqLOA_DiffGainY_UIs_u1p15[5][3]	26214
t2_TrqLOA_DiffGainY_UIs_u1p15[6][0]	17367
t2_TrqLOA_DiffGainY_UIs_u1p15[6][1]	19333
t2_TrqLOA_DiffGainY_UIs_u1p15[6][2]	21299
t2_TrqLOA_DiffGainY_UIs_u1p15[6][3]	26214
t2_TrqLOA_DiffGainY_UIs_u1p15[7][0]	17367
t2_TrqLOA_DiffGainY_UIs_u1p15[7][1]	19333
t2_TrqLOA_DiffGainY_UIs_u1p15[7][2]	21299
t2_TrqLOA_DiffGainY_UIs_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_UIs_u1p15[0]	3277
t_TrqLOA_HighSpeedTrqBlend_Y_UIs_u1p15[1]	6554
t_TrqLOA_HighSpeedTrqBlend_Y_UIs_u1p15[2]	9830
t_TrqLOA_HighSpeedTrqBlend_Y_UIs_u1p15[3]	13107
t_TrqLOA_HighSpeedTrqBlend_Y_UIs_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

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

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_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	0.090705514
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.422303379
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1

Name	Input Value
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	0.649999976
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

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

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

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

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_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	3.5

Name	Input Value
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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

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

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_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	-6.5
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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

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	

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	

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

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_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	4.09389257
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

Name	Input Value		
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_MotAgLoaMtgtnEn_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	

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_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	3.53119206
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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			

Name	Input Value
TrqLOA_LatAccelSV_g_M_Str.K_Uls_f32	0.0234999992
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

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_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	3.82478905
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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_SteerRatio_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

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

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

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_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	0.117193341
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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	

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

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_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	0.937400222
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.64863396
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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

Name	Input Value
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	0.596330881
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.97075582
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	-7.3074398
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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	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	

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

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	

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

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_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	0.527585864
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-9.15404129
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	0.558684111
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	6.74035311
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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	8.80000019
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

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_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	-2.45094824
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	-7.66519117
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	4.72714806
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	1.86038625
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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_SteerRatio_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

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

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_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	-0.739941597
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	0.487862706
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.19902897
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.0281592235	-0.0281592179 ± 0.01	✔

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

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_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	-3.35405445
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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_SteerRatio_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

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

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_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	0.212739348
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	5.64538431
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	-4.76852036
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.209976807	0.209976807 ± 0.01	✔

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

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_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	-8.84254169
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.0314078331
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.01422715
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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

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

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

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_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	0.20604527
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	1.25657976
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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	0.649999976	
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	

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_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	-9.82586098
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.107311517	0.10731151 ± 0.01	✔

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

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_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	0.568960547
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	5.87574673
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.0912983418
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.404431581
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	0.764021397
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.21581197
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.601940989
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.82232189
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	-8.75550842
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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	-1.13684332 ± 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

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

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_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	0.80274868
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.43354797
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	0.320883036
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	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

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

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_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	0.325643182
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-9.67909622
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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	0.649999976
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

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_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	-2.9048202
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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

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_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	0.820146441
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-5.4794178
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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_MotAgLoaMtgtnEn_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	0.951900303	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_lgc.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

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	✔

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

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_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	0.652412415
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-7.17104101
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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_SteerRatio_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

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

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_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	9.08804321
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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	0.349999994	
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	

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_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	0.415122271
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-1.57159448
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.480407476	-0.480407506 ± 0.01	✔

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

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_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	0.37202704
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-6.50802565
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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_SteerRatio_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

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

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_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	0.915942907
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-4.80525494
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	1.14730155
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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

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_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	0.522736549
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	1.15578187
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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

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 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

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	✔

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

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_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	0.579330087
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	10
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	-8.86872864
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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	

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_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	-8.2390604
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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

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_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	7.42021513
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.856912732
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	6.23505163
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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	0.449999988
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

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_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	0.195947647
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-2.8999486
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-5.29633284	-5.29633284 ± 0.01	✔

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	0.0529999994
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

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_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	3.51402378
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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	8.80000019
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	8.80000019
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

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

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_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	-6.56730986
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.519612968	-0.519612968 ± 0.01	✔

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

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_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	-3.14655781
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.0452584028
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.33281803
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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
	0
target_TrqLOA_Per1_VehicleSpeed_Kph_f32.value	510.110107

Name	Actual Value	Expected Value	Result
TrqLOA_LatAccSca bl			

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

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_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	8.20080757
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.86052227
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	2.73842812
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	4.49196005
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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

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_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	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

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

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_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	-4.99093819
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	0.7069453
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.23353577
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.111186981
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	5.03819704
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	0.48769033
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	4.00134468
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0	0 ± 0.01	✔

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

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_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	3.06545424
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.12183249
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-9.55003071
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	0.72999084
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.90970612
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.979789495
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-5.07149601
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	0.948918343
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.35726833
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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_SteerRatio_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

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

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_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	0.514535308
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.531552732
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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

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_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	-5.20841312
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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	

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

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_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	0.312604427		
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.27199745		
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1		
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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	

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	✔

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

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_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	-2.62184381
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	-0.675880969
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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

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

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

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_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	0.919281602
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	8.82346725
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-1.80586672	-1.80586672 ± 0.01	✔

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

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_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	-6.70205975
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	8.28095341
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	4.30011368
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	1	1	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-1.3696003	-1.3696003 ± 0.01	✔

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

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_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	0.0375167131
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-8.22446823
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.420737267
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.56191611
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	0.210905313
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	3.24548841
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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	8.80000019
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

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

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_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	0.663388848
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	4.7882843
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	0.000482439995
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-3.73393083
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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_LatAccScaleFa d_Kph_f32			

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

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_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	-1.35786963
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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	81.1902777
k_TrqLOA_SteerRatio_Uls_f32	74.510

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_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	-2.64260817
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

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

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_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	3.36877322
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	3.80063248
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	0.163787127
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-1.70545602
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.108414486	0.108414471 ± 0.01	✔

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

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_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	0.383844972
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-0.118159592
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	-3.39964104
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0	0 ± 0.01	✔

Test Step 2.131 (Repeat Count = 1)		✔
Name	**Input Value**	

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

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_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	0.908415675
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	5.94108057
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	-0.819662869	-0.819662631 ± 0.01	✔

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

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_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	0.71404624
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	9.61758518
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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_SteerRatio_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

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

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_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	0.299962163
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	1.92956245
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	-4.5761981
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	8.46458626
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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	✔

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

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_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	-2.65734434
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.803684115
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-1.85368073
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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

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_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	0.923748732
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	-2.79451799
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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
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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"
TS3.12if((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_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

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	✔

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_Igc.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

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

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

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

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_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
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

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

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_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 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	8.80000019
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

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

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_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	0.825533628
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	0.187185764
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	0
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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 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

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

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

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_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	2.87261653
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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_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

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

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_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	-6.5
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.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_lgc.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_lgc.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	

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

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 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

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_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	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_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

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

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_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	0.603896022
target_TrqLOA_Per1_LatAcc_MpSecSq_f32.value	6.27994013
target_TrqLOA_Per1_LatAccelValid_Cnt_lgc.value	1
target_TrqLOA_Per1_MotAgLoaMtgtnEn_Cnt_lgc.value	0
target_TrqLOA_Per1_MtrVelCRF_MtrRadpS_f32.value	143.502243
target_TrqLOA_Per1_RelHwPos_HwDeg_f32.value	1000
target_TrqLOA_Per1_VehicleSpeedValid_Cnt_lgc.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_lgc.value	0	0	✔
target_TrqLOA_Per1_TrqLOACmd_MtrNm_f32.value	0.718581259	0.718581259 ± 0.01	✔

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$(PROJECTROOT)\NxtrLib\include -I$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5\include
File	$(PROJECTROOT)\NxtrLib\src\interpolation.c
Compiler Options	-D_DATA_ACCESS= -Dconst= -I$(PROJECTROOT)\TrqLOA\utp\Contract -I$(PROJECTROOT)\TrqLOA\utp\Contract\Ap_TrqLOA -I$(PROJECTROOT)\StdDef\include -I$(PROJECTROOT)\NxtrLib\include -I$(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

Workspace File	D:\Synergy_Work_Area\TrqLOA_SF48A\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

Comments/Description/Specification

Name	Text
Module 'TrqLOA'	*************************Unit Test Information************************* 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. NOTE2: ""CBD_Sandbox_dbg.map"" map file is embedded for reference." **

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 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	✔