Topic	RID	Requirement	Reference
Figures	1	Serum Concentration Versus Time-Individual	v1.2.0_protocol.pdf
	2	Serum Concentration Versus Time-Groups	v1.2.0_protocol.pdf
	3	Observed Versus Predicted	v1.2.0_protocol.pdf
	4	Parameter Distribution	v1.2.0_protocol.pdf
	5	Categorical Covariance	v1.2.0_protocol.pdf
	6	Continuous Covariance	v1.2.0_protocol.pdf
	7	Correlation Pairs	v1.2.0_protocol.pdf
	8	Quantile Plot	v1.2.0_protocol.pdf
	9	Goodness of Fit	v1.2.0_protocol.pdf
	10	Variable Distribtuion	v1.2.0_protocol.pdf
	11	Bar Charts	v1.2.0_protocol.pdf
	12	VPC	v1.2.0_protocol.pdf
Usability	13	Hard reset button gives an environment with no input retained from previous sessions	v1.2.0_protocol.pdf
Reporting	14	The app creates RTF output for all specified figure, table, and listings	v1.2.0_protocol.pdf
	15	The app creates an R script that can reproduce the analysis outside of the app	v1.2.0_protocol.pdf
Deployment	16	App is under version control	v1.2.0_protocol.pdf
	17	Installation package and instructions work to create new app on a new Envision workflow	v1.2.0_protocol.pdf

RID	Topic	Test ID	Step Description	Expected Result	Qualification Note(s)	Pass/Fail
	Serum	1	Create plot panel:	ConcvTime panel created in Figures		
	Concentration Versus Time- Individual		Analysis Selection -> PKInputFigures -> SErum Concentration Versus Time-Individual to 1		Panel created	passed
		2	Figure renders and respects inputs for all "Plots Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		3	Figure renders and respects inputs for all "Change Defaults" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		4	Figure specific limits work: Enter the following into "Limit":	Plot is updated, respecting inputs. Screencap as evidence		
			EVID != 1&DV>100		Screencap provided	passed
		5	Figure renders and respects changes in Theme Size Manipulation	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		6	Figure renders and respects changes in Theme Colour Manipulation	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
	Serum Concentration	1	Create plot panel:	ConcvTimeGroup panel created in Figures		
	Versus Time- Groups		Analysis Selection -> PKInputFigures -> Serum Concentration Versus Time-Groups to 1		Panel created	passed
		2	Figure renders and respects inputs for "Group Plots" Marky by discrete	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		3	Figure renders and respects inputs for "Group Plots" Marky by	Plot is updated, respecting inputs. Screencap as evidence		
		4	continuous	Diet is undeted association involte. Consequence of suidense	Screencap provided	passed
		5	Figure renders and respects inputs for "Group Plots" Add text inputs	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		6	Figure renders and respects inputs for "Group Plots" Facet by inputs Figure renders and respects inputs for "Group Plots" Scales Free inputs	Plot is updated, respecting inputs. Screencap as evidence Plot is updated, respecting inputs. Screencap as evidence	Screencap provided Screencap provided	passed
		7	Figure renders and respects inputs for "Group Plots" Scales Free x	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passeu
		<u>'</u>	inputs	The tip aparties, respecting in parts. Selections as emachine	Screencap provided	passed
		8	Figure renders and respects inputs for "Group Plots" Scales Free_y inputs	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		9	Figure renders and respects inputs for all "Plots Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		10	Figure renders and respects inputs for all "Change Defaults" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		11	Figure renders and respects inputs for all "Summarize Data?" boxes (Mean Standard Deviation)	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		12	Figure renders and respects inputs for all "Summarize Data?" boxes (Median 95% confidence interval)	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		13	Figure renders and respects inputs for all "Limits and Transformations" Inputs: DOSE<=7	Plot is updated, respecting inputs. Screencap as evidence	Used SEX==0 instead of DOSE==1	nagad
		14	Figure renders and respects changes in Theme Size Manipulation	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		15	Figure renders and respects changes in Theme Colour Manipulation	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
			3. · · · · · · · · · · · · · · · · · · ·	3 per september 1	- Control of the cont	Person
	Observed	1	Create plot panel:	OBSvPRED panel created in Figures		
	Versus Predicted		Analysis Selection -> Model figures -> Observed vs Predicted to 1		Panel created	passed
	1 10010100	2	Figure renders and respects inputs for all "Group Plots" inputs: Marky by Discrete	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		3	Figure renders and respects inputs for all "Group Plots" inputs: Marky by Continuous	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		4	Figure renders and respects inputs for "Group Plots" Facet by and add text inputs	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		5	Figure renders and respects inputs for "Group Plots" Facet ncol and nrow inputs	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		6	Figure renders and respects inputs for "Group Plots" Scales Free_y inputs	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		7	Figure renders and respects inputs for all "Plots Details" and "Change Defaults" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		8	Figure specific limits work: Enter the following into "Limit":	Plot is updated, respecting inputs. Screencap as evidence	Head DV 45 instead (COOF)	
			DOSE<=7		Used DV < 5 instead of DOSE <= 7	passed

RID	Topic	Test ID	Step Description	Expected Result	Qualification Note(s)	Pass/Fail
		9	Figure renders and respects changes in Theme Size Manipulation	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		10	Figure renders and respects changes in Theme Colour Manipulation	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
	Parameter	1	Create plot panel:	paramDist panel created in Figures		
	Distribution		Analysis Selection -> Model figures -> Parameter Distribution to 1		Panel created	passed
		2	Figure renders and respects inputs for all "Group Plots" inputs	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		3	Figure renders and respects inputs for all "Plots Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		4	Figure renders and respects inputs for all "Change Defaults" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		5	Figure specific limits work: Enter the following into "Limit":	Plot is updated, respecting inputs. Screencap as evidence		F
			DOSE<=7	District and stade assessment in the contract of the contract	Screencap provided, using SEX==0	passed
		6	Figure renders and respects changes in Theme Size and Colour Manipulation	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
	Categorical	1	Create plot panel:	covCat panel created in Figures		
	Covariance		Analysis Selection -> Model figures -> Categorical covariance to 1		Panel created	naccod
		2	Figure renders and respects inputs for all "Plots Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		3	Figure renders and respects inputs for all "Change Defaults" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		4	Figure specific limits work: Enter the following into "Limit":	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passeu
		,		That is appared, respecting inpares. Corections as evidence		
			DOSE<=7		Screencap provided using ETA1 < 0	passed
		5	Figure renders and respects changes in Theme Size and Colour Manipulation	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
			Manpalation		Corconcap provided	passed
	Continuous	1	Create plot panel:	covCon panel created in Figures		
	Covariance		Analysis Oals street Madel Courses a Continuous supplier to 4		Daniel and start	
		0	Analysis Selection -> Model figures -> Continuous covariance to 1	Dist is undeted assessing inputs. Consequence as suideness	Panel created	passed
		3	Figure renders and respects inputs for all "Plots Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		4	Figure renders and respects inputs for all "Change Defaults" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		4	Figure specific limits work: Enter the following into "Limit":	Plot is updated, respecting inputs. Screencap as evidence		
			DOSE<=7		Screencap provided with AGE>40	passed
		5	Figure renders and respects changes in Theme Size and Colour Manipulation	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	naggad
			ivianipulation		Screencap provided	passed
	Correlation	1	Create plot panel:	corPairs panel created in Figures		
	Pairs			con and panel croated in rigares		
		_	Analysis Selection -> Model figures -> Correlation Pairs to 1		Panel created	passed
		2	Figure renders and respects inputs for all "Plots Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		3	Figure renders and respects inputs for all "Change Defaults" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		4	Figure specific limits work: Enter the following into "Limit":	Plot is updated, respecting inputs. Screencap as evidence		
			DOSE<=7		Screencap provided using ETA2 > 0	passed
		5	Figure renders and respects changes in Theme Size and Colour	Plot is updated, respecting inputs. Screencap as evidence		
			Manipulation		Screencap provided	passed
	Quantile Plot	1	Create plot panel:	QQplot panel created in Figures		
	Qualitile F10t		Greate plot pariel.	adplot paliel dieated III i Igules		
			Analysis Selection -> Model figures -> QQ Plot to 1		Panel created	passed
		2	Figure renders and respects "Group Plots" facet by input	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		3	Figure renders and respects inputs for "Group Plots" Facet ncol and nro	Plot is updated, respecting inputs. Screencap as evidence	Soroonoon provided	pagead
		4	inputs Figure renders and respects inputs for all "Plots Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided Screencap provided	passed

RID	Topic	Test ID	Step Description	Expected Result	Qualification Note(s)	Pass/Fail
		6	Figure specific limits work: Enter the following into "Limit":	Plot is updated, respecting inputs. Screencap as evidence		
			DOSE<=7		Screencap provided	passed
		7	Figure renders and respects changes in Theme Size and Colour	Plot is updated, respecting inputs. Screencap as evidence	Corcerioup provided	paooca
			Manipulation	3 p	Screencap provided	passed
)	Goodness of Fi	† 1	Create plot panel:	GOF panel created in Figures		
,	Goodness of 1		oreate plot panel.	Got panel dealed in Figures		
			Analysis Selection -> Model figures -> GOF to 1		Panel created	passed
		2	Figure renders and respects inputs for "Group Plots" Marky by discrete	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		3	Figure renders and respects inputs for "Group Plots" Marky by continuous	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		4	Figure renders and respects inputs for "Group Plots" plot loess	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		5	Figure renders and respects inputs for all "Plot Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Previous 3 tests prove this	passed
		6	Figure renders and respects inputs for all "IPRED Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		7	Figure renders and respects inputs for all "PRED Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		8	Figure renders and respects inputs for all "DV Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		9	Figure renders and respects inputs for all "RESID Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		10	Figure renders and respects inputs for all "NPDE Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		11	Figure specific limits work: Enter the following into "Limit":	Plot is updated, respecting inputs. Screencap as evidence		
			DOSE<=7		Limited to SEX==0, screencap	passed
		12	Figure renders and respects changes in Theme Size and Colour	Plot is updated, respecting inputs. Screencap as evidence	Elimited to SEX==0, screencap	passeu
		12	Manipulation	1 lot is appared, respecting inputs. Screencap as evidence	Screencap provided	passed
0	Variable Distribution	1	Create plot panel:	distMult panel created in Figures		
			Analysis Selection -> Model figures -> distMult to 1		Panel created	passed
		2	Figure renders and respects inputs for all "Plot Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		3	Figure renders and respects inputs for all "Manipulate Data" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided using WT > 50	passed
		4	Figure renders and respects changes in Theme Size and Colour Manipulation	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
1	Bar Charts	1	Create plot panel:	barchartMult panel created in Figures		
			Analysis Selection -> Model figures -> barchartMult to 1		Panel created	passed
		2	Figure renders and respects inputs for all "Plot Details" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		3	Figure renders and respects inputs for all "Manipulate Data" boxes	Plot is updated, respecting inputs. Screencap as evidence	Screencap provided	passed
		4	Figure renders and respects changes in Theme Size and Colour	Plot is updated, respecting inputs. Screencap as evidence	Ocicencap provided	passea
		·	Manipulation	The to apacious, respecting inputer. Consensual as a machine	Screencap provided	passed
12	VPC	1	Simulation data can be loaded, merged with source data, and displayed on screen. The mi210 510 and 511 runs will be used for this RID. Verify	Merged simulation data shown on screen. Screencap as evidence.	0	
		2	that the data parser runs on the VPC data.	Additional data can be leaded and displayed. Careenaan about	Screencap provided	passed
		2	Additional csv dataset can be loaded and displayed. Use the parser to demonstrate that it runs on the additional data.	Additional data can be loaded and displayed, Screencap shown as evidence.	Screencap provided	passed
		3	Figure renders and respects inputs for all figures of the shading type "simulated percentile/Each Percentile"	Plot is updated, respecting inputs.	Screencaps 12-03-01:12-03-6 as evide	passed
		4	Figure renders and respects inputs for all figures of the shading type "predicted median"	Plot is updated, respecting inputs.	Screencaps 12-04-01:12-04-6 as evide	passed
		5	Figure renders and respects inputs for all figures of the shading type "none"	Plot is updated, respecting inputs.	Screencaps 12-05-01:12-05-6 as evide	
		6	Figure renders and respects inputs for all figures of the shading type	Plot is updated, respecting inputs.	·	
		7	"simulated percentile/Overall Percentile" Figure renders and respects inputs for all "Manipulate Data" boxes	Plot is updated, respecting inputs.	Screencaps 12-06-01:12-06-5 as evide	
		8	Figure renders and respects inputs for all manipulate Data boxes Figure renders and respects changes in Theme Size and Colour	Plot is updated, respecting inputs. Plot is updated, respecting inputs. Screencap as evidence	Verified with "subset(\$DATA, IREP<10	passeu
		o l	Manipulation	i for is appealing inputs. Screencap as evidence	Screencap provided	passed

RID	Topic	Test ID	Step Description	Expected Result	Qualification Note(s)	Pass/Fail
14	The app creates RTF	1	Load the attached validation template into the	Template is loaded	Template loads	pass
	output for all specified figure, table, and listings		application (510-template.R)			
		2	Select ordering of objects to printed in TFL	Scrrenshot which RTF will be checked against	Screenshot included	pass
		3	Generate the RTF and write the companion R script: In "Save and Export" select "Construct *.Doc" and "Reveal Function Text". In filename enter "validation" Press save	validation doc and R script are created	Doc file and R script are created	pass
		4	All objects are located in the RTF, and ordering respects that of the user	Yes. Attach the doc file	Yes. Doc file is attached.	pass
15	The app creates an R script that can reproduce the analysis outside of the app	1	Using the R script created in step 35.3, run the file in R to recreate the RTF file. Verify that the RTF matches that generated in 35.3	Matches. Attach the doc file and R script.	Matches step 14-3. Doc and script attached	pass

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13	Hard reset button gives an environment with no input retained from previous sessions	1	Pressing "Hard reset" button, check input fields to verify they have been reset to the defaults	Input fields are reset to the defaults	Fields were reset successfully	Pass

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16	The app is under version control	1	Record commit ID for tagged release	git commit ID	f21340f9	pass
7	Installation package and instructions work to create new app on a new Envision workflow	1	Launch a new Envision workflow	Launch successful		pass
		2	Upload installation package to Envision workflow via Rstudio	Upload successful		pass
		3	Update nginx by running: cd script sudo ./nginx-update.sh Report output of: nginx -v	>= 1.10.1	nginx version: nginx/1.10.1	pass
		4	As user, run pkgSetup.R: cd script R CMD BATCH pkgSetup.R	No errors in pkgSetup. Rout	No errors	pass
		5	Copy shiny-server config file to correct location: sudo cp script/shiny-server.conf /etc/shiny-server/shiny-server.conf	Copy successful	Copy successful	pass
		6	Ensure application is running: Log in to Metworx dashboard, click "Envision", click "TFL Generator",	Application is running	Application running	pass