

LAT Baseline Test Cases

1 March 06  
v0

Item	Test Case ID	Test Case Name	Configurations						I&T Script Name	Reqs Allocated	Notes
			1	2	3	4	5	6			
1	LAT00x	LAT Power On	X	X	X	X	X	X	LatPowerOn	19	
2	LAT01x	LAT Power Off	X	X	X	X	X	X	LatPowerOff	0	
3	LAT02x	LAT Reinitialization	X	X	P	P		P	LatReInit	8	Also verifies cross-straped interfaces.
4	LAT03x	LAT Electical Power Subsys Performance	X	X						9	Script may not be reqd (could use LatPowerOn).
5	LAT04x	Establish Science Operations Config	X	X					LatBaseSciOps	2	Also used to upload files & images
6	LAT05x	LAT Register Test	X	X						0	LAT Health test.
7	LAT06x	SIU/EPU Hardware Functional	X	X						1	LAT Health test, may combine with LAT02x.
8	LAT071	LAT Energy Measurement Calibration	X							0	Calibration, no requirement sell-off.
9	LAT08x	LAT Safe Modes	X	X						6	LAT Level test, may delete config 2 test.
10	LAT12x	LAT Science Modes	X	X						9	LAT Level test, may delete config 2 test.
11	LAT13x	LAT/Spacecraft I/F Functional	X	X	X	X	X			21	Tests all SC to LAT X-strap combinations.
12	LAT15x	LAT Ambient TCS Test	X	X						8	Test performed on hardware present
13	LAT16x	LAT Ambient Survival Htr Test	X	X						9	Specific script may not be required.
14	LAT17x	LAT Conducted & Radiated Emissions	X	P						3	EMI Test, not part of Baseline.
15	LAT18x	LAT Conducted & Radiated Susceptibility	X							4	EMI Test, not part of Baseline.
16	LAT20x	LAT Science Perf Diagnostics	X	X						2	LAT Level test, may delete config 2 test.
17	LAT21x	LAT Timing Measure & Adjust	X	X						13	
18	LAT22x	LAT Science Ops Demo	X	X	P	P	P	P	IntSeApp	8	Demonstrates ETE Science Ops
19	LAT23x	LAT GRB Handling	X	X	P	P				17	
20	LAT30x	LAT ACD CPT	X	X						11	ACD internally redundant, may delete config 2 test.
21	LAT31x	LAT ACD LPT	X	X						0	LAT Health test.
22	LAT40x	LAT CAL CPT	X	X						11	CAL internally redundant, may delete config 2 test.
23	LAT41x	LAT CAL LPT	X	X						0	LAT Health test.
24	LAT50x	LAT TKR CPT	X	X						11	TKR internally redundant, may delete config 2 test.
25	LAT51x	LAT TKR LPT	X	X						0	LAT Health test.
26	LAT521	LAT Config 1 Light Tight Test	X							1	One time verification.
27	LAT650	T&DF False Triggers	X							0	Test recommended by ETE Committee
28	LAT660	T&DF Data Transport Errors	X							0	Test recommended by ETE Committee
29	LAT70x	LAT SVAC Flight Config on Gnd	X	X						38	Requirements allocated to SVAC
30	LAT711	LAT Config 1 SVAC Muon Calibration	X							a	
31	LAT801	LAT Config 1 SVAC Condition Scan (27 V)	X							a	Test recommended by ETE Committee

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32	LAT811	LAT Config 1 SVAC Condition Scan (29 V)	X							a	Test recommended by ETE Committee
33	LAT821	LAT Config 1 SVAC Nominal Rate CR	X							a	Test recommended by ETE Committee
34	LAT831	LAT SVAC Nominal Rate CR Data Volume	X							a	Test recommended by ETE Committee
35	LAT841	LAT SVAC Nominal Rate Condition Scan CR	X							a	Test recommended by ETE Committee
36	LAT85x	LATSVAC Nominal Rate Condition Scan CR	X	X						a	Test recommended by ETE Committee

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Notes:

- a) 38 requirements sold across all SVAC tests cases.

= Not required for Baseline Test