

Environmental Verification Test Matrix

Test Item Description	Assembly No.	Modal Survey	Finite Element Analysis	Structural Loads	Acoustics	Random Vibration	Sine Vibration (5-50Hz)	Shock	Function/Life Test	Venting	Mass Properties	Thermal Balance	Survival	Operating Cycles	Power/Interface	EMC	Science Performance	Quick Performance	Comp. Performance	Remarks
Observatory					T			T						4						Reference Only
Flight Unit	32-10000	200Hz	NR	27 g	14gms	8 g	NR	A	T	T	+50/	+40/	8	T	I		T	T		EMC by similarity
Flight Spare									T	I	-40/	-40/		T	T		T	T		
Telesc.	32-10100																T			
Telesc. Spare																	T			
Electr. Box	32-10200																			Listed for ref. only
Engineering Unit								T										T	T	
Verification Plan Ref.		9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.11	9.10	10.2.1	19.2.2			8.1	3.7.2 3.7.3			
		Mechanical and Structural										Thermal Vacuum		Electrical	Performance					

Legend: A = Analysis  
 I = Inspection  
 NR = Not Required  
 T = Test

Temperature Units = °C