

Functional Test Verification Matrix

32-06003.03

Rev 01

13 November 2006

Rev 02

23 January 2007

Subject	Data ICD Ref.	Short	Long	Notes
Primary Command Header Format	3.1.1			1
Secondary Command Header Format	3.1.2			1
1 Hz Pulse	3.2	X		
Spacecraft Time	3.5.1	X		
Command Echo	3.5.2		X	
Detector Bias Off	3.5.3	X		
Detector Bias On		X		
Electrical Cal Low Range Off		X		
Electrical Cal Low Range On			X	
Electrical Cal High Range Off		X		
Electrical Cal High Range On		X		
Electrical Cal Rate 8Hz			X	
Electrical Cal Rate 2Khz		X		
Data Test Mode			X	
Clear all Commands			X	
System Reset			X	
Detector D[1-6] Processing Off	3.5.4		X	
Detector D[1-6] Processing On		X		
Discriminator Accept Mask	3.5.5		X	2
Event Amplitude Disc. Thin	3.5.6		X	
Event Amplitude Disc. Thick			X	
Electrical Cal Amplitude	3.5.7		X	

Notes:

1. Interface compatibility test with GSFC
2. Requires separate 4096 step test to check each mask bit individually

Subject	Ref.	Short	Long	Notes
Primary Telemetry Header Format	4.1.1 4.1.2			1
Application ID Format	4.1.2	X		
Secondary Telemetry Header Format	4.1.3	X		
Spacecraft Time		X		
Test Mode Enabled			X	
1 Hz not received			X	
Instrument Serial Number		X		
Primary Science Data Format	4.1.7.1	X		
Secondary Science Data Format	4.1.7.2	X		
Discrete State Indicators	4.2.6			
Detector Bias Control Delayed			X	
Detector Bias On		X		
Electrical Cal Low Range On			X	
Electrical Cal High Range On		X		
Electrical Cal Rate 8Hz/2Khz		X		
Detector Processing D[1-6]			X	
RT Subaddress of Last Command			X	
Command Settings	4.2.7			
Contents of Last Command			X	
Event Amp. Discriminator Setting (Thin,Thick)			X	
Discriminator Accept Mask			X	
Detector D[1-6] Singles Counter	4.2.2	X		
Good Event Counter	4.2.1	X		
Rejected Event Counter	4.2.3		X	
Total Event Counter	4.2.4		X	
28VDC Voltage Monitor	4.2.8	X		3
28VDC Current Monitor	4.2.12	X		
28VDC Power		X		
+5VDC Digital	4.2.9	X		
+5VDC Analog	4.2.10	X		
-5VDC Analog	4.2.11	X		
Detector Bias Current	4.2.13	X		
Detector Bias Voltage	4.2.14	X		
Electrical Cal Voltage	4.2.15	X		
LLD Voltage	4.2.16	X		
Temperatures	4.2.17	X		
Radiation Monitor	4.2.18		X	
PRT Reference Temperature	4.2.19	X		
Purge Flow Rate	4.2.20		X	