

232TI T117

C/A Altitude = 1018 km

Delivered: August 13, 2015

Start Time	End Time	Prime Activity	Observation Detail	Operational Mode	Telemetry Mode	Comments
2016-047T10:04:00	2016-047T10:44:00	SP Turn to Waypoint	NEG_Y to Titan, NEG_X to NEP	DFPW Normal	S_N_ER_3	
2016-047T10:44:00	C/A-12:53:04	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
C/A-12:53:04	-09:00	CIRS	Template C truncated (TN1c)	DFPW Normal	S_N_ER_3	VIMS rider
-09:00	-05:00	CIRS	Template F (TC1b or TN1c)	DFPW Normal	S_N_ER_3	
-05:00	-03:26	VIMS	Template Y truncated (TC1a, TN1a depending on pointing, and TN2c)	DFPW Normal	S_N_ER_3	
-03:26	-03:25	RWA to RCS Transition		RSS3RCS	S_N_ER_3	Set deadband to (0.5, 2.0, 0.5 mrad)
-03:25	-02:35	VIMS	Template Y truncated (TC1a, TN1a depending on pointing, and TN2c)	RSS3RCS	S_N_ER_3	on thrusters
-02:35	-02:25	SP Turn to Waypoint	NEG_Z to Earth, NEG_Y to Saturn (0.0, 0.0, -9.5 deg offset)	RSS3RCS	S_N_ER_3	on thrusters, 00:07:55 RCS turn duration, Set deadband to (2.0, 2.0, 2.0 mrad), then to (0.5, 0.5, 2.0 mrad) at -02:25:00
-03:05	-01:00	RSS Warm Up		RSS3RCS	S_N_ER_3	
-01:00	0	RSS Occultation	(TN2c, TN2d)	RSS3RCS	S_N_ER_3	
2016-047T23:49:42		CLOSEST APPROACH	XBAND to EARTH (TC2a), LUB (Live Update Block)			Low-Latitude Occultation, LatN=14S, LatX=33N (Seasonal change, tropospheric winds, Surface tempd); Good Bistatic Opportunity over Lakes (Exit)
0	+00:34	RSS Occultation	(TN2c, TN2d)	RSS3RCS	S_N_ER_3	
+00:34	+02:10	RSS Bistatic	(TN1a)	RSS3RCS	S_N_ER_3	
		Begin Custom Period				
+02:10	+02:17	VIMS	Turn to Target Lat-Long (72.7, 153.6) prior to RCS to RWA Transition for VIMS Specular Reflection (TC1a, TN1a, TN2c)	DFPW Normal	S_N_ER_3	Set deadband to (0.5, 2.0, 0.5 mrad) for VIMS turn/target and through the Opmode transition
+02:17	+02:39	RCS to RWA Transition		DFPW Normal	S_N_ER_3	
+02:39	+05:00	CIRS	Template T (TN2c, surface temperature)	DFPW Normal	S_N_ER_3	
+05:00	+09:00	CIRS	Template R (TN1c or TC1b, decided in implementation)	DFPW Normal	S_N_ER_3	
+09:00	+11:00	CIRS	Template N1 (TC1b, TN1c aerosol)	DFPW Normal	S_N_ER_3	
+11:00	C/A+15:00:19	CIRS	Template M4 (TC1b, TN1c on outbound)	DFPW Normal	S_N_ER_3	
		End Custom Period				
C/A+15:00:19	2016-048T15:05:00	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
2016-048T15:05:00	2016-049T01:05:00	Canberra 70M	NEG_Z to Earth, NEG_Y to Saturn (0.0, 0.0, -9.5 deg offset)	DFPW Normal	RTE_N_SPB	Rolling
2016-049T01:05:00	2016-049T01:45:00	SP Turn to Waypoint	NEG_Y to Titan, NEG_X to NTP	DFPW Normal	S_N_ER_3	
2016-049T01:45:00	2016-049T05:45:00	ISS	ISS Cloud Monitoring (TC1a, TC1b, TN1a, TN2c, TN2d)	DFPW Normal	S_N_ER_3	
2016-049T05:45:00	2016-049T08:55:00	ISS	ISS Cloud Monitoring (TC1a, TC1b, TN1a, TN2c, TN2d)	RADWU	S_N_ER_5A for 1st 15 minutes, S_N_ER_3 afterwards	
2016-049T08:55:00	2016-049T09:55:00	ISS	30 min ISS mosaic (TC1a, TC1b, TN1a, TN2c, TN2d)	RADWU	S_N_ER_3	
2016-049T09:55:00	2016-049T11:55:00	RADAR	Radiometry Calibration (TN2c)	RADWU	S_N_ER_5A	
2016-049T11:55:00	2016-049T12:55:00	ISS	30 min ISS mosaic (TC1a, TC1b, TN1a, TN2c, TN2d)	DFPW Normal	S_N_ER_3	
2016-049T12:55:00	2016-049T13:35:00	SP Turn to Earth for Downlink	NEG_Z to Earth, NEG_Y to Saturn (0.0, 0.0, -9.5 deg offset)	DFPW Normal	S_N_ER_3	Secondary pointing is MIMI preference
2016-049T13:35:00	2016-049T15:05:00	Y-Bias Window	NEG_Z to Earth, NEG_Y to Saturn (0.0, 0.0, -9.5 deg offset)	DFPW Normal	S_N_ER_3	
2016-049T15:05:00	2016-050T00:05:00	Canberra 34M HEF	NEG_Z to Earth, NEG_Y to Saturn (0.0, 0.0, -9.5 deg offset)	DFPW Normal	RTE_N_SPB	Rolling for 1st 6 hours of downlink