
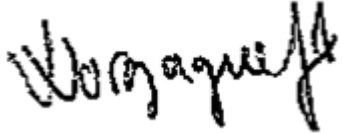



**RPW PROCEDURE FOR  
FDIR TEST ONTO ETB**

	Date	Signature
<b>Prepared by :</b>  <b>Jean-Michel TRAVERT</b> DSO/AVI/CC (ALTRAN)  <b>Julien SANISIDRO</b> DSO/AVI/RI	03/02/17	
<b>Approved by :</b>  <b>Mathieu WORGAGUE</b> DSO/AQ/BA (LOGIQUAL)	03/02/17	
<b>Authorized by :</b>  <b>Emmanuel GUILHEM</b> DSO/SC/SOL (ALTRAN)	03/02/17	

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## 1 INTRODUCTION

### 1.1 PURPOSE OF THE DOCUMENT

This document defines a set of elementary procedures to test:

1. The correct execution of OBCP #1 (REC\_RPW1) in case of RPW anomaly detected (EID\_FMON\_RPW1).
2. The correct execution of OBCP #2 (REC\_RPW2) in case of unexpected reset of the DPU (EID\_RPW1).

### 1.2 APPLICATION

This procedure applies to the RPW EM2 (with DAS R3+ V3.4.0.0 and IDB 4.2.0) but without ANT and SCM.

## 2 REFERENCES

### 2.1 APPLICABLE DOCUMENTS

Mark	Reference	Document title
AD1	SOL-EST-RCD-0050	Experiment Interface Document – Part A
AD2	RPW-SYS-MEB-AIV-00042-LES Iss01 Rev 00	AIT-AIV Plan MEB
AD3	SOL.S.ASTR.TN.00288 Iss3	FDIR concept and implementation report – Payload – RPW extract

### 2.2 REFERENCE DOCUMENTS

Mark	Reference	Document title
RD1	RPW-SYS-SSS-00013-LES Issue 4.1	Software System Specification (SSS)
RD2	RPW-SYS-MEB-DPS-ICD-000210-LES Issue 4.2.0	RPW TC Packet Definition
RD3	RPW-SYS-MEB-DPS-ICD-000211-LES Issue 4.2.0	RPW TM Packet Definition
RD4	PW-SYS-MEB-SPC-00021-LES Issue 3.0	Specification for the Main Electronics Box
RD5	RPW-SYS-MEB-DPS-RP-00109-IWF Issue 1.2	DBS Software Configuration File for DBS Release V1.3

RD7	SOLO-RPWAI-TN-1084-CNES	RPW SFT Short Funcional Test
RD8	RPW-SYS-MEB-DPS-NTT-000859-LES	DAS R3+ (3.4.x.x) SUM
RD9	DAS 3.4.x.x SUM	RPW-SYS-MEB-DPS-NTT-000859-LES

### 3 ACRONYMS

Acronym	Definition
AIT	Assembly Integration and Test
AIV	Assembly Integration and Validation
ANT	ANTenna
C-SGSE	Command – Software Ground Support Equipment
DAS	DPU Application Software
DBS	DPU Boot Software
DPU	Data Processing Unit
EGSE	Electrical Ground Support Equipment
EM	Engineering Model
FFT	Full Functional Test
FM	Flight Model
GSE	Ground Support Equipment
HF	High Frequency
HK	House Keeping
IIC	Inter Instrument Communication
LF	Low Frequency
LFR	Low Frequency Receiver
LVPS	Low-Voltages Power Supply
MA-SGSE	Monitoring and Analysis – Software Ground Support Equipment
MEB	Main Electronics Box
PA	PreAmplifier
PCB	Printed Circuit Board
PDU	Power Distribution Unit
PSU	Power Supply Unit
QM	Qualification Model
RIU	Remote Interface Unit
RPW	Radio and Plasma Waves

RW	Reaction Wheels
S/C	SpaceCraft
SBM	Selected Burst Mode
SBM1	Selected Burst Mode1 (interplanetary shock measurement)
SBM2	In-situ Type III measurements
SCM	Search Coil Magnetometer
SFT	Short Functional Test
SGSE	Software Ground Support Equipment
SpW	SpaceWire
TBC	To Be Confirmed
TBD	To Be Defined
TBW	To Be Written
TC	TeleCommand
TDS	Time Domain Sampler
TM	TeleMetry
TNR-HFR	Thermal Noise Receiver – High Frequency Receiver
TSWF	Triggered Snapshot Wave Forms

## 4 TEST DESCRIPTION

### 4.1 OVERVIEW

This document defines a set of elementary procedures to test:

1. The correct execution of OBCP #1 (REC\_RPW1) in case of RPW anomaly detected (EID\_FMON\_RPW1).
  - FMON\_RPW1 contains 13 SMON (SMON\_RPW1 ... SMON\_RPW13). Each of those standard monitors will be tested in this procedure.

FMON_RPW1 (see [AD3])			
Monitors	TM	HK parameters	Errors
SMON_RPW1	TM_DPU_OBC_HK	HK_PDU_LINK_ERR_FLAG	If Not equal 0
SMON_RPW2	TM_DPU_OBC_HK	HK_DPU_ADC_ERR_FLAG	If Not equal 0
SMON_RPW3	TM_DPU_OBC_HK	HK_PDU_DPU_3V3_VOLTAGE	If out [3.6V ; 4.0V]
SMON_RPW4	TM_DPU_OBC_HK	HK_PDU_DPU_3V3_CURRENT	If out [TBD ; 315mA]
SMON_RPW5	TM_DPU_OBC_HK	HK_PDU_DPU_2V5_VOLTAGE	If out [2,85V ; 3,15V]
SMON_RPW6	TM_DPU_OBC_HK	HK_PDU_DPU_2V5_CURRENT	If out [TBD ; 800mA]
SMON_RPW7	TM_DPU_OBC_HK	HK_DPU_TEMP1	If out [-30°C ; 75°C]
SMON_RPW8	TM_DPU_OBC_HK	HK_DPU_TEMP2	If out [-30°C ; 75°C]
SMON_RPW9	TM_DPU_OBC_HK	HK_DPU_TEMP3	If out [-30°C ; 75°C]
SMON_RPW10	TM_DPU_OBC_HK	HK_DPU_TEMP4	If out [-30°C ; 75°C]
SMON_RPW11	TM_DPU_OBC_HK	HK_PDU_TEMP1	If out [-30°C ; 75°C]
SMON_RPW12	TM_DPU_OBC_HK	HK_PDU_TEMP2	If out [-30°C ; 75°C]
SMON_RPW13	TM_DPU_OBC_HK	HK_DPU_2V5_REF	If out [TBD ; TBD]

SMON\_RPW13 Monitoring threshold are TBD this monitor is not tested in this test.

- As the OBCP #1 is dependent on RPW mode, some of the SMON will be tested with RPW in standby mode and others in service mode.
2. The correct execution of OBCP #2 (REC\_RPW2) in case of unexpected reset of the DPU (EID\_RPW1).



## 4.2 STEP-BY-STEP SCRIPTS PROCEDURES AND VERIFICATIONS

### 4.2.1 PRELIMINARY CHECKS

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Note down RPW model and serial number		
2	Check that the MEB is connected to ETB		
3	Check that RPW instrument is connected as shown on the scheme Annex 2: ELECTRICAL Test configuration		

#### 4.2.2 TEST OF SMON\_RPW1

STEP	DESCRIPTION	RESULTS	OK / NOK
1	<p>Send the S/C TC to switch ON nominal RPW chain:</p> <p><b>TC ZCSD1192:</b></p> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul> <p><i>Note: This power-up function includes the command to power the instrument LCL, followed by the HPC-ON command for the instrument internal switch</i></p>		
2	<p>Wait 10s, which is more than the time required by DBS to complete its initialization.</p> <p><i>Note : since no TC_DPU_DBS_LOAD_COMMON_PAR is sent, all parameters are set to default values as per last TC packet definition document applicable to DBS v1.3.0.0 [RD2]</i></p>		
3	<p>Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT):</p> <p><b>TC ZCD00982:</b></p> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	<p>Boot DAS to enter Stand-by mode: <b>TC_DPU_BOOT_DAS</b></p>		
5	<p>Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT):</p> <p><b>TC ZCD00982:</b></p> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> <p>Wait 45s to receive TM_DPU_DAS_HK packet</p>		
6	<p>Send the S/C TC to enable <b>SMON_RPW1</b></p>		
7	<p>Send the S/C TC to set <b>SMON_RPW1</b> detection value to "NO_ERROR" (Raw Value = 0x0)</p>		
8	<p>Wait until <b>FMON_RPW1</b> triggers</p>		
9	<p>Check that RPW is OFF by sending the following S/C TC :</p> <p>ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)</p>		
10	<p>Send the S/C TC to set <b>SMON_RPW1</b> detection value to "ERROR" (Raw Value = 0x1)</p>		

### 4.2.3 TEST OF SMON\_RPW2

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Stand-by mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Send the S/C TC to enable <b>SMON_RPW2</b>		
7	Send the S/C TC to set <b>SMON_RPW2</b> detection value to "NO_ERROR" (Raw Value = 0x0)		
8	Wait until <b>FMON_RPW1</b> triggers		
9	Check that RPW is OFF by sending the following S/C TC : ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
10	Send the S/C TC to set <b>SMON_RPW2</b> detection value to "ERROR" (Raw Value = 0x1)		

#### 4.2.4 TEST OF SMON\_RPW3 LOW LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Stand-by mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> <li>Wait 45s to receive TM_DPU_DAS_HK packet</li> </ul>		
6	Send the S/C TC to enable <b>SMON_RPW3</b>		
7	Send the S/C TC to modify <b>SMON_RPW3 low limit to 4.5 V</b> (see Annex 1: Typical Values of monitored HK)		
8	Wait until <b>FMON_RPW1</b> triggers		
9	Check that RPW is OFF by sending the following S/C TC : ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
10	Send the S/C TC to modify <b>SMON_RPW3 low limit to its default value</b>		

#### 4.2.5 TEST OF SMON\_RPW3 HIGH LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Stand-by mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Send the S/C TC to enable <b>SMON_RPW3</b>		
7	Send the S/C TC to modify <b>SMON_RPW3 high limit to 3.5 V</b> (see Annex 1: Typical Values of monitored HK)		
8	Wait until <b>FMON_RPW1</b> triggers		
9	Check that RPW is OFF by sending the following S/C TC : ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
10	Send the S/C TC to modify <b>SMON_RPW3 high limit to its default value</b>		

#### 4.2.6 TEST OF SMON\_RPW4 LOW LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Stand-by mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> <li>Wait 45s to receive TM_DPU_DAS_HK packet</li> </ul>		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW4</b>		
8	Send the S/C TC to modify <b>SMON_RPW4 low limit to 500 mA</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW4 low limit to its default value</b>		

#### 4.2.7 TEST OF SMON\_RPW4 HIGH LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW4</b>		
8	Send the S/C TC to modify <b>SMON_RPW4 high limit</b> to <b>200 mA</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW4 high limit</b> to its <b>default value</b>		

#### 4.2.8 TEST OF SMON\_RPW5 LOW LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> <li>Wait 45s to receive TM_DPU_DAS_HK packet</li> </ul>		
6	Boot DAS to enter Service mode: <b>STDBY -&gt;Service</b> <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW5</b>		
8	Send the S/C TC to modify <b>SMON_RPW5 low limit to 3.5 V</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW5 low limit to its default value</b>		



#### 4.2.9 TEST OF SMON\_RPW5 HIGH LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>mise ON-&gt;STDBY</b> <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW5</b>		
8	Send the S/C TC to modify <b>SMON_RPW5 high limit to 2.5 V</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW5 high limit to its default value</b>		

#### 4.2.10 TEST OF SMON\_RPW6 LOW LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW6</b>		
8	Send the S/C TC to modify <b>SMON_RPW6 low limit to 800 mA</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW6 low limit to its default value</b>		

#### 4.2.11 TEST OF SMON\_RPW6 HIGH LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW6</b>		
8	Send the S/C TC to modify <b>SMON_RPW6 high limit</b> to <b>400 mA</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW6 high limit</b> to its <b>default value</b>		

#### 4.2.12 TEST OF SMON\_RPW7 LOW LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW7</b>		
8	Send the S/C TC to modify <b>SMON_RPW7 low limit to 75°C</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW7 low limit to its default value</b>		

#### 4.2.13 TEST OF SMON\_RPW7 HIGH LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	S Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW7</b>		
8	Send the S/C TC to modify <b>SMON_RPW7 high limit</b> to <b>-30°C</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW7 high limit</b> to its <b>default value</b>		

#### 4.2.14 TEST OF SMON\_RPW8 LOW LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW8</b>		
8	Send the S/C TC to modify <b>SMON_RPW8 low limit to 75°C</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW8 low limit to its default value</b>		

#### 4.2.15 TEST OF SMON\_RPW8 HIGH LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW8</b>		
8	Send the S/C TC to modify <b>SMON_RPW8 high limit</b> to <b>-30°C</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW8 high limit</b> to its <b>default value</b>		

#### 4.2.16 TEST OF SMON\_RPW9 LOW LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW9</b>		
8	Send the S/C TC to modify <b>SMON_RPW9 low limit to 75°C</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW9 low limit to its default value</b>		



#### 4.2.17 TEST OF SMON\_RPW9 HIGH LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul> Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Send the S/C TC to enable <b>SMON_RPW9</b>		
8	Send the S/C TC to modify <b>SMON_RPW9 high limit</b> to <b>-30°C</b> (see Annex 1: Typical Values of monitored HK)		
9	Wait until <b>FMON_RPW1</b> triggers		
10	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
11	Send the S/C TC to modify <b>SMON_RPW9 high limit</b> to its <b>default value</b>		

#### 4.2.18 TEST OF SMON\_RPW10 LOW LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
6	Wait 45s to receive TM_DPU_DAS_HK packet		
7	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
8	Send the S/C TC to enable <b>SMON_RPW10</b>		
9	Send the S/C TC to modify <b>SMON_RPW10 low limit to 75°C</b> (see Annex 1: Typical Values of monitored HK)		
10	Wait until <b>FMON_RPW1</b> triggers		
11	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
12	Send the S/C TC to modify <b>SMON_RPW10 low limit to its default value</b>		

#### 4.2.19 TEST OF SMON\_RPW10 HIGH LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
6	Wait 45s to receive TM_DPU_DAS_HK packet		
7	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
8	Send the S/C TC to enable <b>SMON_RPW10</b>		
9	Send the S/C TC to modify <b>SMON_RPW10 high limit</b> to <b>-30°C</b> (see Annex 1: Typical Values of monitored HK)		
10	Wait until <b>FMON_RPW1</b> triggers		
11	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
12	Send the S/C TC to modify <b>SMON_RPW10 high limit</b> to its <b>default value</b>		

#### 4.2.20 TEST OF SMON\_RPW11 LOW LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
6	Wait 45s to receive TM_DPU_DAS_HK packet		
7	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
8	Send the S/C TC to enable <b>SMON_RPW11</b>		
9	Send the S/C TC to modify <b>SMON_RPW11 low limit to 75°C</b> (see Annex 1: Typical Values of monitored HK)		
10	Wait until <b>FMON_RPW1</b> triggers		
11	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
12	Send the S/C TC to modify <b>SMON_RPW11 low limit to its default value</b>		

#### 4.2.21 TEST OF SMON\_RPW11 HIGH LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
6	Wait 45s to receive TM_DPU_DAS_HK packet		
7	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
8	Send the S/C TC to enable <b>SMON_RPW11</b>		
9	Send the S/C TC to modify <b>SMON_RPW11 high limit</b> to <b>-30°C</b> (see Annex 1: Typical Values of monitored HK)		
10	Wait until <b>FMON_RPW1</b> triggers		
11	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
12	Send the S/C TC to modify <b>SMON_RPW11 high limit</b> to its <b>default value</b>		

#### 4.2.22 TEST OF SMON\_RPW12 LOW LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
6	Wait 45s to receive TM_DPU_DAS_HK packet		
7	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
8	Send the S/C TC to enable <b>SMON_RPW12</b>		
9	Send the S/C TC to modify <b>SMON_RPW12 low limit to 75°C</b> (see Annex 1: Typical Values of monitored HK)		
10	Wait until <b>FMON_RPW1</b> triggers		
11	Check that RPW is OFF by the following S/C TC sequence : ZIW0035 (TC_DPU_ENTER_STANDBY) Wait 10s ZCSD1193(PCSB0036=UNIT_A) ZCSD1193(PCSB0036=UNIT_B)		
12	Send the S/C TC to modify <b>SMON_RPW12 low limit to its default value</b>		

#### 4.2.23 TEST OF SMON\_RPW12 HIGH LIMIT

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
6	Wait 45s to receive TM_DPU_DAS_HK packet		
7	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
8	Send the S/C TC to enable <b>SMON_RPW12</b>		
9	Send the S/C TC to modify <b>SMON_RPW12 high limit</b> to <b>-30°C</b> (see Annex 1: Typical Values of monitored HK)		
10	Wait until <b>FMON_RPW1</b> triggers		
11	Check that RPW is OFF by the following S/C TC sequence : <ul style="list-style-type: none"> <li>ZIW0035 (TC_DPU_ENTER_STANDBY)</li> <li>Wait 10s</li> <li>ZCSD1193(PCSB0036=UNIT_A)</li> <li>ZCSD1193(PCSB0036=UNIT_B)</li> </ul>		
12	Send the S/C TC to modify <b>SMON_RPW12 high limit</b> to its <b>default value</b>		

#### 4.2.24 TEST OF EID\_RPW1

STEP	DESCRIPTION	RESULTS	OK / NOK
1	Send the S/C TC to switch ON nominal RPW chain: <b>TC ZCSD1192:</b> <ul style="list-style-type: none"> <li>Parameter PCSB0036 = UNIT_A</li> </ul>		
2	Wait 10s, which is more than the time required by DBS to complete its initialization.		
3	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
4	Boot DAS to enter Service mode: <b>TC_DPU_BOOT_DAS</b>		
5	Send the S/C TC to synchronise the instrument time with the spacecraft Onboard Time (OBT): <b>TC ZCD00982:</b> <ul style="list-style-type: none"> <li>PID (PCD09821) = 75</li> <li>Period (PCD09822) = 0 (one-shot)</li> </ul>		
	Wait 45s to receive TM_DPU_DAS_HK packet		
6	Boot DAS to enter Service mode: <b>TC_DPU_ENTER_SERVICE</b>		
7	Produce an unexpected reset : <b>TC_DPU_START_TEST</b> <ul style="list-style-type: none"> <li>CP_DPU_TEST_ID = 1</li> <li>CP_DPU_PARAM1 = 1</li> <li>CP_DPU_PARAM2 = 1</li> <li>CP_DPU_PARAM3 = 1</li> <li>CP_DPU_PARAM4 = 1</li> </ul>		
8	Wait until EID_RPW1 event is received		
9	Check that RPW is OFF by the following S/C TC sequence: <ul style="list-style-type: none"> <li>ZCD00982(PCD09821=75, PCD09822=0) : (Start Time Synchronisation to User)</li> <li>Wait 2s</li> <li>ZIW00009(PIW00010=DPU_RAM, CP_RPW_START_</li> </ul>		

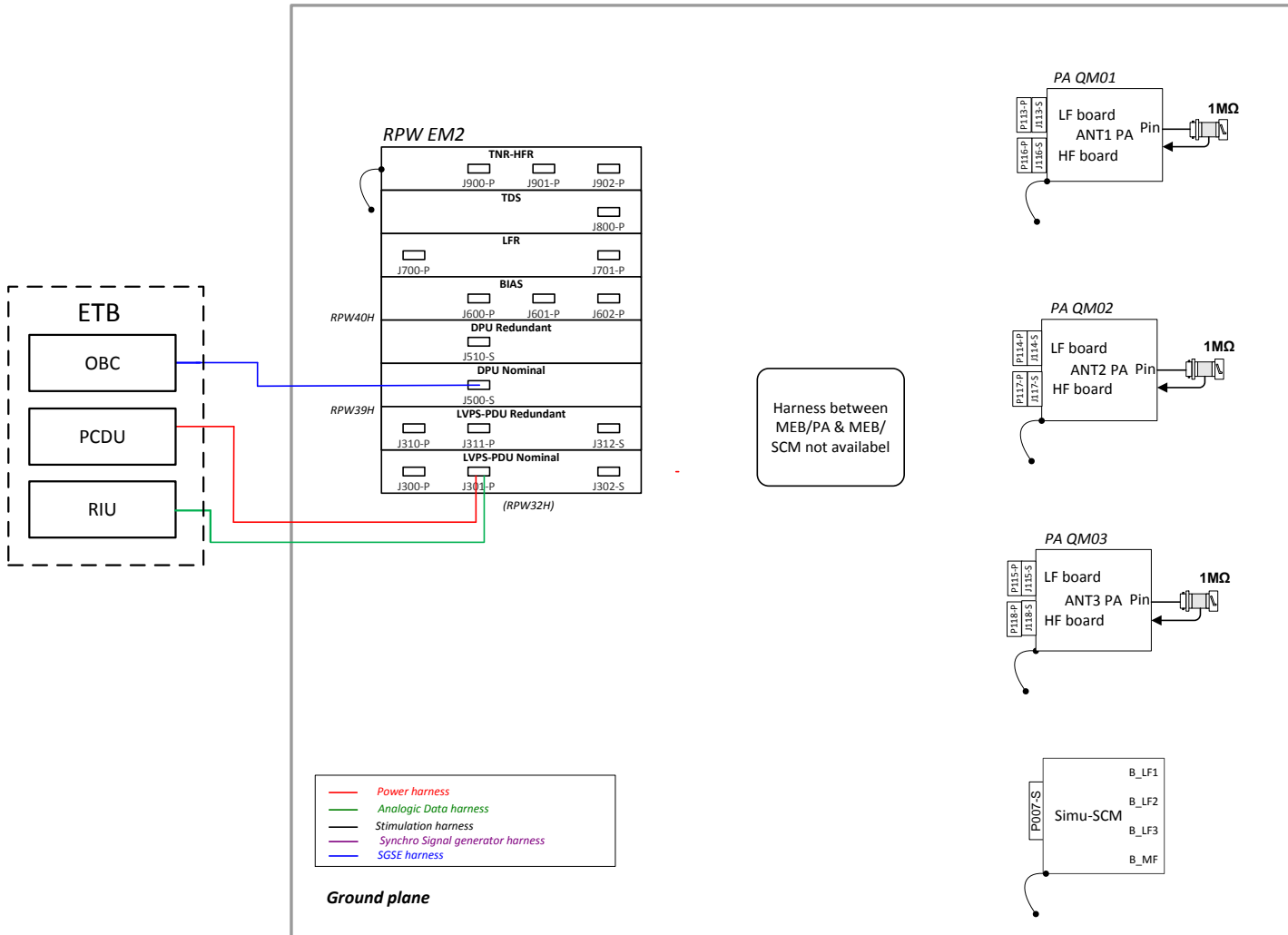


STEP	DESCRIPTION	RESULTS	OK / NOK
	<p>ADDR= 0x40040000, CP_RPW_BLK_LEN_DUMP =2560) : (TC_DPU_DUMP_MEMORY)</p> <ul style="list-style-type: none"><li>- Wait 30s</li><li>- ZCSD1193(PCSB0036=UNIT_A)</li><li>- ZCSD1193(PCSB0036=UNIT_B)</li></ul>		

## ANNEX 1: TYPICAL VALUES OF MONITORED HK

Monitors	TM	HK parameters	Typical value
SMON_RPW1	TM_DPU_OBC_HK	HK_PDU_LINK_ERR_FLAG	0
SMON_RPW2	TM_DPU_OBC_HK	HK_DPU_ADC_ERR_FLAG	0
SMON_RPW3	TM_DPU_OBC_HK	HK_PDU_DPU_3V3_VOLTAGE	4 V
SMON_RPW4	TM_DPU_OBC_HK	HK_PDU_DPU_3V3_CURRENT	330 mA
SMON_RPW5	TM_DPU_OBC_HK	HK_PDU_DPU_2V5_VOLTAGE	2.95 V
SMON_RPW6	TM_DPU_OBC_HK	HK_PDU_DPU_2V5_CURRENT	590 mA
SMON_RPW7	TM_DPU_OBC_HK	HK_DPU_TEMP1	24°C
SMON_RPW8	TM_DPU_OBC_HK	HK_DPU_TEMP2	24°C
SMON_RPW9	TM_DPU_OBC_HK	HK_DPU_TEMP3	24°C
SMON_RPW10	TM_DPU_OBC_HK	HK_DPU_TEMP4	24°C
SMON_RPW11	TM_DPU_OBC_HK	HK_PDU_TEMP1	22°C
SMON_RPW12	TM_DPU_OBC_HK	HK_PDU_TEMP2	22°C
SMON_RPW13	TM_DPU_OBC_HK	HK_DPU_2V5_REF	NA (0X00)

## ANNEX 2: ELECTRICAL TEST CONFIGURATION



RPW EM2 : No redundant function

## DIFFUSION LIST

PROJECT TEAM					TEL	BPI	HIERARCHY					TEL	BPI
DSO/SC/SOL	X	FRATTER I.	74427	2220	DSO		CLAIR Marie-Anne	74629	2521				
DSO/SC/SOL	X	GUILHEM E. (ALTRAN)	87604	2220									
DSO/TB/EL		FIACHETTI C.	83576	1713	DSO/DA		MARCHAL Philippe	74456	2911				
DSO/TB/SM		HOT A.	82594	1717	DSO/DA		BORRIEN Andre	81770	2911				
DSO/TB/SM		PUILLET C.	82305	1717	DSO/BL		DUBOURG Vincent	73523	2222				
DSO/TB/MS		TREMOLIERE S.	73520	1715	DSO/BL		VARGAS Andre	73493	2222				
DSO/SC/SOL	X	BELLOUARD E.	82615	2220	DSO/AVI		LANDIECH Philippe	81958	1416				
DSO/TB/TH		BRYLSBAERT C.	74275	1717	DSO/AVI		LADIETTE Nadine	74972	1416				
DSO/TB/TH		LIQUIERES N. (EPSILON)	75612		DSO/DV		VAN- TROOSTENBERGH E Paola	81820	1421				
DSO/AVI/RI	X	SANISIDRO J.	73782	2212	DSO/DV		DESMAZEAUX Pascal	83345	1421				
DSO/AVI/RI		GASC P.	83049	2212	DSO/NT		BOLOH Loic	81401	212				
DSO/AVI/RI	X	TELLIER S (SOGETI)	74677	2212	DSO/NT		GUAY Philippe	82620	212				
DSO/AVI/RI		MERCIER M (SOGETI)	75227	2212									
DSO/SC/EUC		DANTO P.	82921	2220									
DSO/AVI/SI		JARLAUD J-L.	74950	2212	DSO/OT		GLEYZES Alain	73187	2524				
DSO/AVI/2I		VEGA J-F	73049	2212	DSO/OT		BRICOUT Jean-Noel	81320	2524				
DSO/AVI/AV		MEYER J-R	81567	1714	DSO/RF		PRADINES Dominique	74747	2512				
DSO/AQ/LE		FAYE D.	81812	1414	DSO/RF		LAPORTE Christophe	81324	2512				
DSO/AQ/BA	X	JULIEN S. (LOGIQUAL)	73110	1415	DSO/SC		LIER Philippe	82155	2532				
DSO/AQ/BA	X	BENEZETH J-M. (LOGIQUAL)	75879	1415	DSO/		PERBOS J.	74157	2532				
DSO/AQ/BA		SENDER G. (LOGIQUAL)	75669	1415									
DSO/AQ/BA	X	WORGAGUE M. (LOGIQUAL)	74768	1415	DSO/SI		BOUSSARIE Eric	74354	1711				

DSO/AQ/IM		RIBAIMONT A. (MI-GSO)	81914	1415
DSO/AQ/MP		COMBES H.	73073	1414
DSO/DA/CP		LE GALLUDEC J.	81745	2502
DSO/TB/LV	X	CAMPO GARRIDO G.	83271	1715
DIA/DA		CASOLI F.	67862	Paris
DIA/SME		AMSIF .K	73704	213
DAJ/AR/TN		DOORN M.	73193	1605
DSO/TB/ET		SABA B.	82876	1713
DSO/DA/CP		BLANDIN C. (MI-GSO)	83142	2502
DSO/AVI/CC	X	TRAVERT J-M (ALTRAN)	82169	2213

DSO/SI		CUGNY Bruno	73139	1711
DSO/TB		SERENE Fabienne	83180	1716
DSO/TB		BRIET Richard	82322	1716
DSO/AQ		CADIOU Anne.	82632	1411
DSO/AQ/IM		MAZEAU Sophie.	82918	1415
DSO/AQ/B A		GEAY-KAMINSKI N.	82047	1415

**External diffusion**

STELLAR		Delory G.	gdelory@stellarsci.com (Point d'entrée)	ES A	URWIN A	Aileen.urwin@esa.int (Point d'entrée)
		Turin P.	pturin@stellarsci.com		MARSDEN R.	Richard.marsden@esa.int
		Bale S.D	bale@stellarsci.com		FAHMY S.	Salma.fahmy@esa.int
		Smith. C	csmith@stellarsci.com		WIRTH K.	Kristin.wirth@esa.int
		Scholz C.	cscholz@ssl.berkeley.edu		Kletzkine Ph.	Philippe.Kletzkine@esa.int
					Marliani F.	filippo.marliani@esa.int
LPC2E		Jannet G.	guillaume.jannet@cnrs-orleans.fr		Carbonnier H.	hadrien.carbonnier@esa.int
		Krasnoselskikh V.	vkrasnos@cnrs-orleans.fr	IAP	Soucek J.	soucek@ufa.cas.cz
		Kretzschmar M.	Matthieu.Kretzschmar@cnrs-orleans.fr		Chum J.	jachu@ufa.cas.cz
		Fergeau P.	Patrice.fergeau@cnrs-orleans.fr		Kolmasová I.	iko@ufa.cas.cz
				IWF	Ottacher H	harald.ottacher@oeaw.ac.at
LPP		Chust Th.	Thomas.chust@lpp.polytechnique.fr		Steller M	manfred.steller@oeaw.ac.at
		Jeandet A.	Alexis.jeandet@lpp.polytechnique.fr			
		Briand N.	Nicolas.briand@lpp.polytechnique.fr	ASI	Travnicek P	pavel@asu.cas.cz
					Štverák S	stepan.stverak@asu.cas.cz
					Brinek Y.	jan.brinek@asu.cas.cz
LESIA/BTS	X	Leray V.	Vincent.leray@obspm.fr			
LESIA	X	Barbary G.	Gaele.barbary@obspm.fr	IRF & KTH	Jansson S-E	sej@irfu.se
		Dekkali M.	Moustapha.dekkali@obspm.fr		Vaivads A	andris@irfu.se
		Maksimovic M.	Milan.maksimovic@obspm.fr		Ahlen L	ala@irfu.se
		Chapron F.	frederic.chapron@obspm.fr		Cripps V	vicki.cripps@irfu.se
	X	Plasson Ph.	Philippe.plasson@obspm.fr			
	X	Chaintreuil S.	Sylviane.chaintreuil@obspm.fr			
	X	Chariet M.	moufida.chariet@nexeya.com			

