

WBS Functional Test  
 File: H\_COP\_HIF\_RFVB.xls  
 Author: R. Biggins



## Procedure Summary

### Objectives

The objective of this procedure is to execute a functional test on the Wide Band Spectrometer (WBS) or the PRIME units

- Set FPU to band 0
- Zero WBS without Laser
- Execute tests with Laser 1
- Execute tests with Laser 2

Based on procedure:  
 HifiEng\_WBS\_FT\_COP (v6)

### Summary of Constraints

Real-time science packets should be enabled for downlink for HIFI analysis

### Spacecraft Configuration

Start of Procedure

End of Procedure

### Reference File(s)

Input Command Sequences

Output Command Sequences  
 HCHRFWB

### Referenced Displays

ANDs      GRDs      SLDs  
 ZAZ9C999  
 ZAZ9D999

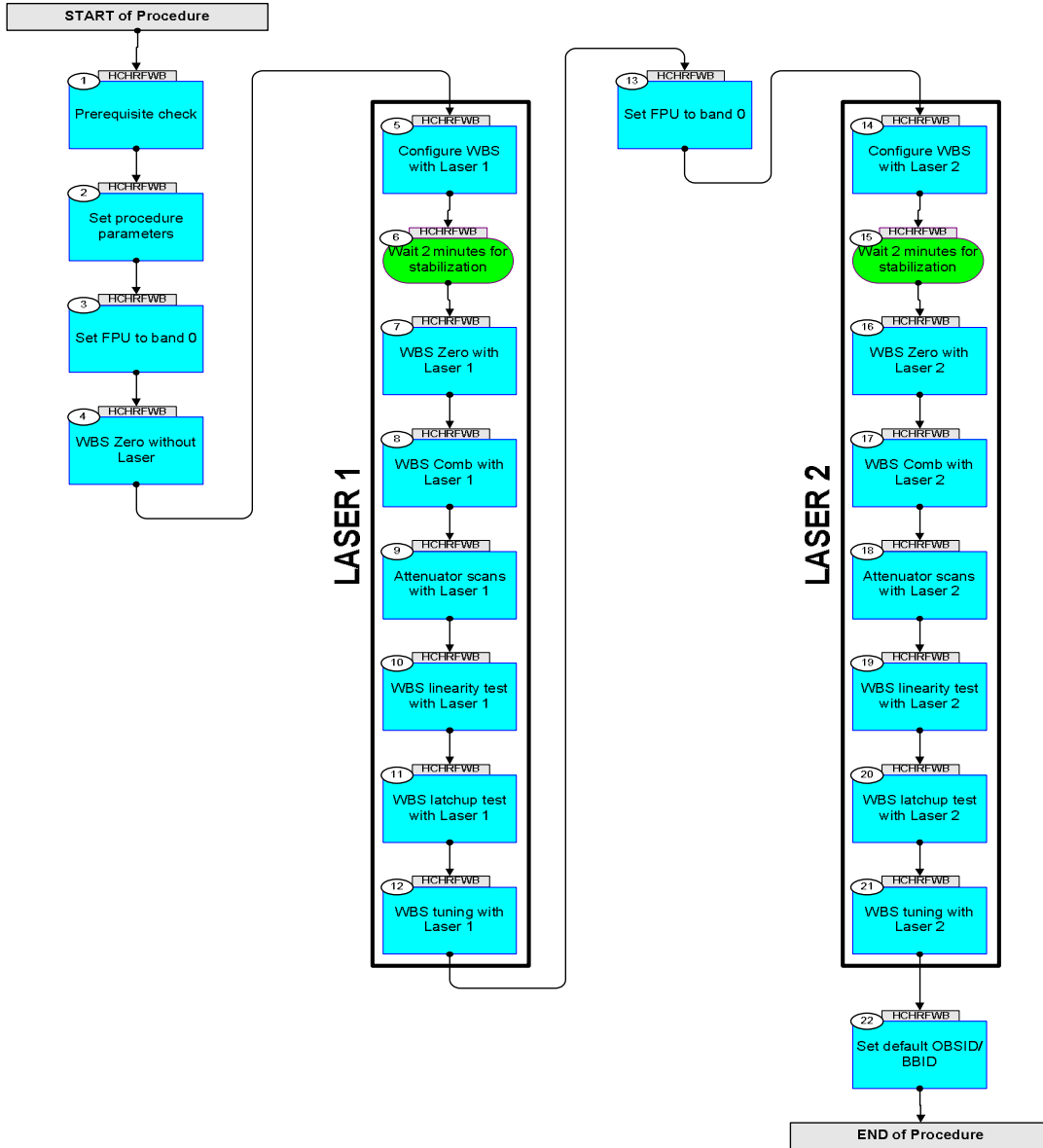
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
17/08/09		1	Created	R. Biggins	
27/08/09		1.01	Validation : TC title updated from HIFI_P_Configure_FCU to HIFIRP_Configure_FCU	R. Biggins	
10/09/09	2.5	1.02	Validation : Procedure refreshed to update display	R. Biggins	
15/02/10	3	2	- All ET times removed - Comments updated	R. Biggins	

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## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
<p><i>TC Seq. Name : HCHRFWB (WBS Functional Test)</i></p> <p><i>TimeTag Type: B</i>  <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>				
1		<i>Prerequisite check</i>		Next Step: 2
1.1		<i>HSC/ICC input</i>		□
		<p>Verify that the HSC has supplied a valid OBSID value:</p> <p>OBS_ID = 0xnnnn nnnn</p>		
2		<i>Set procedure parameters</i>		Next Step: 3
	ET=+ UT=+00.00.01	<p>HIFI_Set_OBS_ID</p> <p style="text-align: center;">HIFI_Set_OBS_ID</p> <p>Command Parameter(s) :</p> <p style="text-align: center;">HIFI_BB_ID            HP001197  HIFI_OBS_ID            HP000197</p> <p>Subsch. ID : 70  Det. descr. : Set Observation-ID and Building-Block-ID</p>	HC014289	17700001 <hex> OBS_ID
		<p>Verify Telemetry</p> <p style="text-align: center;">BB_ID_per_hk            HM004190</p>	= 17700001 <hex>	AND=ZAZ9C999
		<p>Verify Telemetry</p> <p style="text-align: center;">OBS_ID_per_hk            HM003190</p>	OBS_ID	AND=ZAZ9C999
	ET=+ UT=+00.00.00	<p>HIFI_Housekeeping_on</p> <p style="text-align: center;">HIFI_Housekeeping_on</p> <p>Command Parameter(s) :</p> <p style="text-align: center;">HIF_HK_rate            HP012197            1_pkt_per_s  HIF_FCU_S            HP006197            ON (Def)  HIF_LCU_S            HP007197            ON (Def)  HIF_WBSV_S            HP009197            ON (Def)  HIF_WBSH_S            HP008197            ON (Def)  HIF_HRSV_S            HP011197            ON (Def)  HIF_HRSR_S            HP010197            ON (Def)</p> <p>Subsch. ID : 70  Det. descr. : Sets periodic housekeeping packet generation period</p>	HC016289	

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		Verify: The following TM(3,25) packets should be produced once every second:  <b>HIFI_essential_HK</b> (APID 1025) <b>HIFI_HK_rev_7</b> (APID 1027)																																																																																			
3		Set FPU to band 0		Next Step: 4																																																																																	
	ET=+ UT=+00.00.01	HIFI_Configure_FCU_Power  <b>HIFI_Configure_FCU_Power</b>  <i>Command Parameter(s) :</i> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>1C200001 &lt;hex&gt;</td></tr> <tr><td>HF_CPR_Mixer_H_S</td><td>HP203191</td><td>ON (Def)</td></tr> <tr><td>HF_CPR_Mixer_V_S</td><td>HP204191</td><td>ON (Def)</td></tr> <tr><td>HF_CPR_Chopper_S</td><td>HP205191</td><td>ON (Def)</td></tr> <tr><td>HF_CPR_UCH_S</td><td>HP206191</td><td>ON (Def)</td></tr> <tr><td>HF_CPR_UCV_S</td><td>HP207191</td><td>ON (Def)</td></tr> </table> <i>Subsch. ID : 70</i> <i>Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)</i>	HIFI_BB_ID	HP001197	1C200001 <hex>	HF_CPR_Mixer_H_S	HP203191	ON (Def)	HF_CPR_Mixer_V_S	HP204191	ON (Def)	HF_CPR_Chopper_S	HP205191	ON (Def)	HF_CPR_UCH_S	HP206191	ON (Def)	HF_CPR_UCV_S	HP207191	ON (Def)	HC027289																																																																
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	ET=+ UT=+00.00.00	HIFI_R_Configure_FCU  <b>HIFI_R_Configure_FCU</b>  <i>Command Parameter(s) :</i> <table border="0"> <tr><td>HIFI_BB_ID</td><td>HP001197</td><td>1C200001 &lt;hex&gt;</td></tr> <tr><td>HF_CPR_MX BAND</td><td>HP202191</td><td>0 &lt;dec&gt; (Def)</td></tr> <tr><td>HF_CH1_DPFPF1</td><td>HP176191</td><td>0 &lt;dec&gt;</td></tr> <tr><td>HF_CH2_FIF1_Drain_V</td><td>HP177191</td><td>0.075 V (Def)</td></tr> <tr><td>HF_CH2_FIF1_Drain_C</td><td>HP178191</td><td>0.5 mA (Def)</td></tr> <tr><td>HF_CH2_FIF2_Drain_V</td><td>HP179191</td><td>0.075 V (Def)</td></tr> <tr><td>HF_CH2_FIF2_Drain_C</td><td>HP180191</td><td>0.5 mA (Def)</td></tr> <tr><td>HF_CH2_SIF1_Drain_V</td><td>HP181191</td><td>0.075 V (Def)</td></tr> <tr><td>HF_CH2_SIF1_Drain_C</td><td>HP182191</td><td>0.5 mA (Def)</td></tr> <tr><td>HF_CH2_SIF2_Drain_V</td><td>HP183191</td><td>0.075 V (Def)</td></tr> <tr><td>HF_CH2_SIF2_Drain_C</td><td>HP184191</td><td>0.5 mA (Def)</td></tr> <tr><td colspan="3"> </td></tr> <tr><td>HF_CH2_SIF3_Drain_V</td><td>HP185191</td><td>0.075 V (Def)</td></tr> <tr><td>HF_CH2_SIF3_Drain_C</td><td>HP186191</td><td>0.5 mA (Def)</td></tr> <tr><td>HF_CV1_DPFPF1</td><td>HP191191</td><td>0 &lt;dec&gt;</td></tr> <tr><td>HF_CV2_FIF1_Drain_V</td><td>HP192191</td><td>0.075 V (Def)</td></tr> <tr><td>HF_CV2_FIF1_Drain_C</td><td>HP193191</td><td>0.5 mA (Def)</td></tr> <tr><td>HF_CV2_FIF2_Drain_V</td><td>HP194191</td><td>0.075 V (Def)</td></tr> <tr><td>HF_CV2_FIF2_Drain_C</td><td>HP195191</td><td>0.5 mA (Def)</td></tr> <tr><td>HF_CV2_SIF1_Drain_V</td><td>HP196191</td><td>0.075 V (Def)</td></tr> <tr><td>HF_CV2_SIF1_Drain_C</td><td>HP197191</td><td>0.5 mA (Def)</td></tr> <tr><td>HF_CV2_SIF2_Drain_V</td><td>HP198191</td><td>0.075 V (Def)</td></tr> <tr><td>HF_CV2_SIF2_Drain_C</td><td>HP199191</td><td>0.5 mA (Def)</td></tr> <tr><td>HF_CV2_SIF3_Drain_V</td><td>HP200191</td><td>0.075 V (Def)</td></tr> <tr><td>HF_CV2_SIF3_Drain_C</td><td>HP201191</td><td>0.5 mA (Def)</td></tr> <tr><td>HF_CPR_CH_SINE_S</td><td>HP211191</td><td>ON (Def)</td></tr> <tr><td>HF_CPR_CH_LOOP_S</td><td>HP210191</td><td>CLOSE (Def)</td></tr> </table>	HIFI_BB_ID	HP001197	1C200001 <hex>	HF_CPR_MX BAND	HP202191	0 <dec> (Def)	HF_CH1_DPFPF1	HP176191	0 <dec>	HF_CH2_FIF1_Drain_V	HP177191	0.075 V (Def)	HF_CH2_FIF1_Drain_C	HP178191	0.5 mA (Def)	HF_CH2_FIF2_Drain_V	HP179191	0.075 V (Def)	HF_CH2_FIF2_Drain_C	HP180191	0.5 mA (Def)	HF_CH2_SIF1_Drain_V	HP181191	0.075 V (Def)	HF_CH2_SIF1_Drain_C	HP182191	0.5 mA (Def)	HF_CH2_SIF2_Drain_V	HP183191	0.075 V (Def)	HF_CH2_SIF2_Drain_C	HP184191	0.5 mA (Def)				HF_CH2_SIF3_Drain_V	HP185191	0.075 V (Def)	HF_CH2_SIF3_Drain_C	HP186191	0.5 mA (Def)	HF_CV1_DPFPF1	HP191191	0 <dec>	HF_CV2_FIF1_Drain_V	HP192191	0.075 V (Def)	HF_CV2_FIF1_Drain_C	HP193191	0.5 mA (Def)	HF_CV2_FIF2_Drain_V	HP194191	0.075 V (Def)	HF_CV2_FIF2_Drain_C	HP195191	0.5 mA (Def)	HF_CV2_SIF1_Drain_V	HP196191	0.075 V (Def)	HF_CV2_SIF1_Drain_C	HP197191	0.5 mA (Def)	HF_CV2_SIF2_Drain_V	HP198191	0.075 V (Def)	HF_CV2_SIF2_Drain_C	HP199191	0.5 mA (Def)	HF_CV2_SIF3_Drain_V	HP200191	0.075 V (Def)	HF_CV2_SIF3_Drain_C	HP201191	0.5 mA (Def)	HF_CPR_CH_SINE_S	HP211191	ON (Def)	HF_CPR_CH_LOOP_S	HP210191	CLOSE (Def)	HC183289	
HIFI_BB_ID	HP001197	1C200001 <hex>																																																																																			
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HF_CPR_CHFPG1 HP212191 HF_CPR_CHFPG2 HP213191 HF_CPR_CHFPG1 HP214191 HF_CPR_CHFPG2 HP215191 HF_CPR_CHFPG2 HP216191 HF_CPR_Cal_Heater_C HP217191 HF_CH1_MXBIAS_V HP172191 HF_CH1_MX_MG_C HP173191 HF_CV1_MXBIAS_V HP187191 HF_CV1_MX_MG_C HP188191 HF_R_Chopper_Rot HP455191 HF_CH1_DPACT_C HP174191 HF_CV1_DPACT_C HP189191  Subsch. ID : 70  Det. descr. : Configure the FCU-subsystem (redundant)	17 <dec> 201 <dec> (Def) 1010 <dec> 885 <dec> (Def) 149 <dec> (Def) 1.1 mA 0.5 mV 15.0 mA 0.5 mV 15.0 mA -2.33 V 0.0 mA 0.0 mA	
	ET=+ UT=+00.00.03	HIFI_CH1_MX_MG_C  HIFI_CH1_MX_MG_C  Command Parameter(s) : HIFI_BB_ID HP001197 HF_CH1_MX_MG_C HP173191  Subsch. ID : 70 Det. descr. : Send single command to set H mixer magnet current	HC096289   1C200001 <hex> 0.5 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_MX_MG_C  HIFI_CV1_MX_MG_C  Command Parameter(s) : HIFI_BB_ID HP001197 HF_CV1_MX_MG_C HP188191  Subsch. ID : 70 Det. descr. : Send single command to set V mixer magnet current	HC099289   1C200001 <hex> 0.5 mA	
		Verify Telemetry BB_ID_per_hk HM004190	= 1C200001 <hex>	AND=ZAZ9C999
		Verify Telemetry HF_DH1_MXBAND HM005191	= 0 <dec>	AND=ZAZ9C999
		Verify Telemetry HF_DV1_MXBAND HM096191	= 0 <dec>	AND=ZAZ9C999
4		WBS Zero without Laser		Next Step: 5

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_H  <b>HIFI_Configure_WBS_H</b>  Command Parameter(s) : HIFI_BB_ID           HP001197 HWH_LASER1_S       HP158193 HWH_LASER2_S       HP159193 HWH_Heater           HP160193 HWH_Latchup_S       HP161193 HWH_ATT_Band_4      HP157193 HWH_ATT_Band_3      HP156193 HWH_ATT_Band_2      HP155193 HWH_ATT_Band_1      HP154193 HWH_ATT_IN          HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  E350001 <hex> OFF (Def) OFF (Def) 0 <dec> (Def) Levell 7 dB 7 dB 7 dB 7 dB 15 dB	
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  <b>HIFI_Configure_WBS_V</b>  Command Parameter(s) : HIFI_BB_ID           HP001197 HWV_LASER1_S       HP168193 HWV_LASER2_S       HP169193 HWV_Heater           HP170193 HWV_Latchup_S       HP171193 HWV_ATT_Band_4      HP167193 HWV_ATT_Band_3      HP166193 HWV_ATT_Band_2      HP165193 HWV_ATT_Band_1      HP164193 HWV_ATT_IN          HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  E350001 <hex> OFF (Def) OFF (Def) 0 <dec> (Def) Levell 7 dB 7 dB 7 dB 7 dB 15 dB	
		Verify Telemetry  HWH_Laser1_S       HM017193	= OFF	AND=ZAZ9D999
		Verify Telemetry  HWH_Laser2_S       HM016193	= OFF	AND=ZAZ9D999
		Verify Telemetry  HWV_Laser1_S       HM056193	= OFF	AND=ZAZ9D999
		Verify Telemetry  HWV_Laser2_S       HM055193	= OFF	AND=ZAZ9D999
	ET=+ UT=+00.00.01	HIFI_WBS_Zero  <b>HIFI_WBS_Zero</b>  Command Parameter(s) : HIFI_BB_ID           HP001197  Subsch. ID : 70 Det. descr. : Perform zero-measurement with WBS	HC147289  E140001 <hex>	
		Verify Telemetry  BB_ID_per_hk        HM004190	= 0E140001 <hex>	AND=ZAZ9C999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.04	HIFI_WBS_Zero  HIFI_WBS_Zero  Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Perform zero-measurement with WBS	HC147289  E140002 <hex>	
		Verify Telemetry  BB_ID_per_hk                  HM004190	= 0E140002 <hex>	AND=ZAZ9C999
5		Configure WBS with Laser 1		Next Step: 6
		The following TCs should be sent automatically with the defined time separation.		
	ET=+ UT=+00.00.04	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S                  HP158193 HWH_LASER2_S                  HP159193 HWH_Heater                  HP160193 HWH_Latchup_S                  HP161193 HWH_ATT_Band_4                  HP157193 HWH_ATT_Band_3                  HP156193 HWH_ATT_Band_2                  HP155193 HWH_ATT_Band_1                  HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  E350002 <hex> ON OFF (Def) 0 <dec> (Def) Level1 7 dB 7 dB 7 dB 7 dB 15 dB	
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWV_LASER1_S                  HP168193 HWV_LASER2_S                  HP169193 HWV_Heater                  HP170193 HWV_Latchup_S                  HP171193 HWV_ATT_Band_4                  HP167193 HWV_ATT_Band_3                  HP166193 HWV_ATT_Band_2                  HP165193 HWV_ATT_Band_1                  HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  E350002 <hex> ON OFF (Def) 0 <dec> (Def) Level1 7 dB 7 dB 7 dB 7 dB 15 dB	
		Verify Telemetry  HWH_Laser1_S                  HM017193	= ON	AND=ZAZ9D999
		Verify Telemetry  HWV_Laser1_S                  HM056193	= ON	AND=ZAZ9D999

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6		Wait 2 minutes for stabilization		Next Step: 7
		NOTE: A 2 minute delta release time is already included in the next telecommand		
7		WBS Zero with Laser 1		Next Step: 8
	ET=+ UT=+00.02.01	HIFI_WBS_Zero  HIFI_WBS_Zero Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Perform zero-measurement with WBS	HC147289  E140003 <hex>	
8		WBS Comb with Laser 1		Next Step: 9
	ET=+ UT=+00.00.04	HIFI_WBS_Zero  HIFI_WBS_Zero Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Perform zero-measurement with WBS	HC147289  E140004 <hex>	
	ET=+ UT=+00.00.04	HIFI_WBS_Comb  HIFI_WBS_Comb Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_ATT_Band_4          HP157193 HWH_ATT_Band_3          HP156193 HWH_ATT_Band_2          HP155193 HWH_ATT_Band_1          HP154193 HWH_ATT_IN              HP153193 HWV_ATT_Band_4          HP167193 HWV_ATT_Band_3          HP166193 HWV_ATT_Band_2          HP165193 HWV_ATT_Band_1          HP164193 HWV_ATT_IN              HP163193  Subsch. ID : 70 Det. descr. : Perform comb-measurement with WBS	HC148289  E150001 <hex> 0 dB (Def) 3 dB 1 dB 3 dB 10 dB 0 dB (Def) 2 dB 2 dB 3 dB 0 dB (Def)	
9		Attenuator scans with Laser 1		Next Step: 10



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	ET=+ UT=+00.00.06	HIFI_config_spectroscopy <p style="text-align: center;"><b>HIFI_config_spectroscopy</b></p> <i>Command Parameter(s) :</i> HIFI_BB_ID            HP001197 HIF_N_WBS_START    HP021197 HIF_R_HRS            HP022197 HIF_N_WBS_INTEGR   HP023197 HIF_N_HRS_INTEGR   HP024197 HIF_DEL_HRS        HP025197 HIF_DEL_WBS        HP026197 HIF_T_ACC_WBS      HP027197 HIF_T_ACC_HRS      HP028197 HIF_WBSH_OFFSET1   HP029197 HIF_WBSH_WIDTH1   HP030197  HIF_WBSH_OFFSET2   HP031197 HIF_WBSH_WIDTH2   HP032197 HIF_WBSH_OFFSET3   HP033197 HIF_WBSH_WIDTH3   HP034197 HIF_WBSH_OFFSET4   HP035197 HIF_WBSH_WIDTH4   HP036197 HIF_WBSV_OFFSET1   HP037197 HIF_WBSV_WIDTH1   HP038197 HIF_WBSV_OFFSET2   HP039197 HIF_WBSV_WIDTH2   HP040197 HIF_WBSV_OFFSET3   HP041197 HIF_WBSV_WIDTH3   HP042197 HIF_WBSV_OFFSET4   HP043197 HIF_WBSV_WIDTH4   HP044197 HIF_HRS_RSHIFT     HP045197  HIF_WBS_RSHIFT     HP046197 HIF_HRSV_SEL        HP047197 HIF_HRSV_SEL        HP048197 HIF_WBS_packing    HP049197	HC150289  0 <dec> (Def) 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 945 <dec> 929 <dec> 36 <dec> 1976 <dec>  2084 <dec> 1976 <dec> 4132 <dec> 1976 <dec> 6180 <dec> 1976 <dec> 36 <dec> 1976 <dec> 2084 <dec> 1976 <dec> 4132 <dec> 1976 <dec> 6180 <dec> 1976 <dec> 0 <dec> (Def)  2 <dec> 0 <dec> 0 <dec> 16_bits_format	
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_H <p style="text-align: center;"><b>HIFI_Configure_WBS_H</b></p> <i>Command Parameter(s) :</i> HIFI_BB_ID            HP001197 HWH_LASER1_S        HP158193 HWH_LASER2_S        HP159193 HWH_Heater            HP160193 HWH_Latchup_S       HP161193 HWH_ATT_Band_4      HP157193 HWH_ATT_Band_3      HP156193 HWH_ATT_Band_2      HP155193 HWH_ATT_Band_1      HP154193 HWH_ATT_IN            HP153193	HC032289  238682113 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
		<i>Subsch. ID : 70</i> Det. descr. : Specify parameters for next spectroscopy measurement		
		<i>Subsch. ID : 70</i> Det. descr. : Configure WBS-H		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID           HP001197 HWV_LASER1_S       HP168193 HWV_LASER2_S       HP169193 HWV_Heater          HP170193 HWV_Latchup_S       HP171193 HWV_ATT_Band_4      HP167193 HWV_ATT_Band_3      HP166193 HWV_ATT_Band_2      HP165193 HWV_ATT_Band_1      HP164193 HWV_ATT_IN          HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  238682113 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID           HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  236322817 <dec>	
	ET=+ UT=+00.00.07	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID           HP001197 HIFI_cmd             HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242876417 <dec> HWH_ZERO_OFF	
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID           HP001197 HIFI_cmd             HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242876417 <dec> HWH_ZERO_OFF	
	ET=+ UT=+00.00.01	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID           HP001197 HIFI_cmd             HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242876417 <dec> HWH_COMB_OFF	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID                  HP001197 HIFI_cmd                  HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242876417 <dec> HWV_COMB_OFF	
	ET=+ UT=+00.00.02	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 14 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 14 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 13 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID           HP001197 HWV_LASER1_S       HP168193 HWV_LASER2_S       HP169193 HWV_Heater           HP170193 HWV_Latchup_S       HP171193 HWV_ATT_Band_4       HP167193 HWV_ATT_Band_3       HP166193 HWV_ATT_Band_2       HP165193 HWV_ATT_Band_1       HP164193 HWV_ATT_IN           HP163193	HC033289    242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 13 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID           HP001197	HC151289   242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID           HP001197 HWH_LASER1_S       HP158193 HWH_LASER2_S       HP159193 HWH_Heater           HP160193 HWH_Latchup_S       HP161193 HWH_ATT_Band_4       HP157193 HWH_ATT_Band_3       HP156193 HWH_ATT_Band_2       HP155193 HWH_ATT_Band_1       HP154193 HWH_ATT_IN           HP153193	HC032289    242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 12 <dec>	
		Subsch. ID : 70 Det. descr. : Configure WBS-H		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 12 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 11 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 11 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 9 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 9 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 8 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 8 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 7 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 6 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 6 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 4 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                  HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 4 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                   HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 3 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID            HP001197 HWV_LASER1_S        HP168193 HWV_LASER2_S        HP169193 HWV_Heater            HP170193 HWV_Latchup_S        HP171193 HWV_ATT_Band_4        HP167193 HWV_ATT_Band_3        HP166193 HWV_ATT_Band_2        HP165193 HWV_ATT_Band_1        HP164193 HWV_ATT_IN            HP163193	HC033289   242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 3 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID            HP001197	HC151289   242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID            HP001197 HWH_LASER1_S        HP158193 HWH_LASER2_S        HP159193 HWH_Heater            HP160193 HWH_Latchup_S        HP161193 HWH_ATT_Band_4        HP157193 HWH_ATT_Band_3        HP156193 HWH_ATT_Band_2        HP155193 HWH_ATT_Band_1        HP154193 HWH_ATT_IN            HP153193	HC032289   242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 2 <dec>	
		Subsch. ID : 70 Det. descr. : Configure WBS-H		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 2 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 1 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 1 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876417 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID           HP001197 HWH_LASER1_S       HP158193 HWH_LASER2_S       HP159193 HWH_Heater          HP160193 HWH_Latchup_S       HP161193 HWH_ATT_Band_4      HP157193 HWH_ATT_Band_3      HP156193 HWH_ATT_Band_2      HP155193 HWH_ATT_Band_1      HP154193 HWH_ATT_IN          HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Levell 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID           HP001197 HWV_LASER1_S       HP168193 HWV_LASER2_S       HP169193 HWV_Heater          HP170193 HWV_Latchup_S       HP171193 HWV_ATT_Band_4      HP167193 HWV_ATT_Band_3      HP166193 HWV_ATT_Band_2      HP165193 HWV_ATT_Band_1      HP164193 HWV_ATT_IN          HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876417 <dec> ON OFF (Def) 0 <dec> (Def) Levell 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID           HP001197 HIFI_cmd             HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242941953 <dec> HWH_ZERO_OFF	
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID           HP001197 HIFI_cmd             HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242941953 <dec> HWV_ZERO_OFF	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID                  HP001197 HIFI_cmd                  HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242941953 <dec> HWH_COMB_OFF	
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID                  HP001197 HIFI_cmd                  HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242941953 <dec> HWV_COMB_OFF	
	ET=+ UT=+00.00.02	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941953 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 6 <dec> 6 <dec> 6 <dec> 6 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 6 <dec> 6 <dec> 6 <dec> 6 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941953 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                   HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4               HP157193 HWH_ATT_Band_3               HP156193 HWH_ATT_Band_2               HP155193 HWH_ATT_Band_1               HP154193 HWH_ATT_IN                   HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 5 <dec> 5 <dec> 5 <dec> 5 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                   HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4               HP167193 HWV_ATT_Band_3               HP166193 HWV_ATT_Band_2               HP165193 HWV_ATT_Band_1               HP164193 HWV_ATT_IN                   HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 5 <dec> 5 <dec> 5 <dec> 5 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                   HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941953 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                   HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4               HP157193 HWH_ATT_Band_3               HP156193 HWH_ATT_Band_2               HP155193 HWH_ATT_Band_1               HP154193 HWH_ATT_IN                   HP153193	HC032289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 4 <dec> 4 <dec> 4 <dec> 4 <dec> 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 4 <dec> 4 <dec> 4 <dec> 4 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941953 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 3 <dec> 3 <dec> 3 <dec> 3 <dec> 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 3 <dec> 3 <dec> 3 <dec> 3 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941953 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 2 <dec> 2 <dec> 2 <dec> 2 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193	HC033289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 2 <dec> 2 <dec> 2 <dec> 2 <dec> 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941953 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941953 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941953 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193	HC032289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID            HP001197 HWV_LASER1_S        HP168193 HWV_LASER2_S        HP169193 HWV_Heater            HP170193 HWV_Latchup_S        HP171193 HWV_ATT_Band_4        HP167193 HWV_ATT_Band_3        HP166193 HWV_ATT_Band_2        HP165193 HWV_ATT_Band_1        HP164193 HWV_ATT_IN            HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941953 <dec> ON OFF (Def) 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	
10		WBS linearity test with Laser 1		Next Step: 11
	ET=+ UT=+00.00.01	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID            HP001197 HIFI_cmd                HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  E7C0001 <hex> HWH_ZERO_OFF	
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID            HP001197 HIFI_cmd                HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  243007489 <dec> HWH_ZERO_OFF	
	ET=+ UT=+00.00.01	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID            HP001197 HIFI_cmd                HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  243007489 <dec> HWH_COMB_OFF	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID                  HP001197 HIFI_cmd                  HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  243007489 <dec> HWV_COMB_OFF	
	ET=+ UT=+00.00.02	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID           HP001197 HWH_LASER1_S       HP158193 HWH_LASER2_S       HP159193 HWH_Heater          HP160193 HWH_Latchup_S       HP161193 HWH_ATT_Band_4      HP157193 HWH_ATT_Band_3      HP156193 HWH_ATT_Band_2      HP155193 HWH_ATT_Band_1      HP154193 HWH_ATT_IN          HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID           HP001197 HWV_LASER1_S       HP168193 HWV_LASER2_S       HP169193 HWV_Heater          HP170193 HWV_Latchup_S       HP171193 HWV_ATT_Band_4      HP167193 HWV_ATT_Band_3      HP166193 HWV_ATT_Band_2      HP165193 HWV_ATT_Band_1      HP164193 HWV_ATT_IN          HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID           HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID           HP001197 HWH_LASER1_S       HP158193 HWH_LASER2_S       HP159193 HWH_Heater          HP160193 HWH_Latchup_S       HP161193 HWH_ATT_Band_4      HP157193 HWH_ATT_Band_3      HP156193 HWH_ATT_Band_2      HP155193 HWH_ATT_Band_1      HP154193 HWH_ATT_IN          HP153193	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 14 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 14 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 14 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 14 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 13 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 13 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 13 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 13 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 12 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 12 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 12 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 12 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 11 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 11 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 11 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 11 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 9 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 9 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 9 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 9 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 8 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 8 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 8 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 8 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 7 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 7 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 6 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 6 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 6 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 6 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                  HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                   HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 4 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 4 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 4 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289   243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 4 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289   243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289   243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 3 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193	HC033289   243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 3 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 3 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 3 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID           HP001197 HWH_LASER1_S       HP158193 HWH_LASER2_S       HP159193 HWH_Heater         HP160193 HWH_Latchup_S      HP161193 HWH_ATT_Band_4     HP157193 HWH_ATT_Band_3     HP156193 HWH_ATT_Band_2     HP155193 HWH_ATT_Band_1     HP154193 HWH_ATT_IN         HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 2 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID           HP001197 HWV_LASER1_S       HP168193 HWV_LASER2_S       HP169193 HWV_Heater         HP170193 HWV_Latchup_S      HP171193 HWV_ATT_Band_4     HP167193 HWV_ATT_Band_3     HP166193 HWV_ATT_Band_2     HP165193 HWV_ATT_Band_1     HP164193 HWV_ATT_IN         HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 2 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID           HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID           HP001197 HWH_LASER1_S       HP158193 HWH_LASER2_S       HP159193 HWH_Heater         HP160193 HWH_Latchup_S      HP161193 HWH_ATT_Band_4     HP157193 HWH_ATT_Band_3     HP156193 HWH_ATT_Band_2     HP155193 HWH_ATT_Band_1     HP154193 HWH_ATT_IN         HP153193	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 2 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 2 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 1 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 1 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 1 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 1 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S          HP158193 HWH_LASER2_S          HP159193 HWH_Heater              HP160193 HWH_Latchup_S          HP161193 HWH_ATT_Band_4          HP157193 HWH_ATT_Band_3          HP156193 HWH_ATT_Band_2          HP155193 HWH_ATT_Band_1          HP154193 HWH_ATT_IN          HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWV_LASER1_S          HP168193 HWV_LASER2_S          HP169193 HWV_Heater              HP170193 HWV_Latchup_S          HP171193 HWV_ATT_Band_4          HP167193 HWV_ATT_Band_3          HP166193 HWV_ATT_Band_2          HP165193 HWV_ATT_Band_1          HP164193 HWV_ATT_IN          HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007489 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193	HC032289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007489 <dec> ON OFF (Def) 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	
11		WBS latchup test with Laser 1		Next Step: 12
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  E710001 <hex> ON OFF (Def) 0 <dec> (Def) Level2 (Def) 0 dB (Def) 3 dB 1 dB 3 dB 10 dB	
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242286593 <dec> ON OFF (Def) 0 <dec> (Def) Level2 (Def) 0 <dec> (Def) 2 <dec> 2 <dec> 3 <dec> 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry HWH_LUP_level_S HM018193	= High	AND=ZAZ9D999
		Verify Telemetry HWV_LUP_level_S HM057193	= High	AND=ZAZ9D999
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  E71002 <hex> ON OFF (Def) 0 <dec> (Def) Level1 0 dB (Def) 3 dB 1 dB 3 dB 10 dB	
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242286594 <dec> ON OFF (Def) 0 <dec> (Def) Level1 0 <dec> (Def) 2 <dec> 2 <dec> 3 <dec> 0 <dec> (Def)	
		Verify Telemetry HWH_LUP_level_S HM018193	= Low	AND=ZAZ9D999
		Verify Telemetry HWV_LUP_level_S HM057193	= Low	AND=ZAZ9D999
12		WBS tuning with Laser 1		Next Step: 13
		The following TCs should be sent automatically with the defined time separation.		



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Det. descr. : Configure the FCU-subsystem (redundant)		
	ET=+ UT=+00.00.03	HIFI_CH1_MX_MG_C  HIFI_CH1_MX_MG_C  Command Parameter(s) : HIFI_BB_ID                  HP001197 HF_CH1_MX_MG_C              HP173191  Subsch. ID : 70 Det. descr. : Send single command to set H mixer magnet current	HC096289  471859202 <dec> 5.5 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_MX_MG_C  HIFI_CV1_MX_MG_C  Command Parameter(s) : HIFI_BB_ID                  HP001197 HF_CV1_MX_MG_C              HP188191  Subsch. ID : 70 Det. descr. : Send single command to set V mixer magnet current	HC099289  471859202 <dec> 10.8 mA	
		Verify Telemetry HF_DH1_MXBAND                  HM005191	= 5 <dec>	AND=ZAZ9C999
		Verify Telemetry HF_DV1_MXBAND                  HM096191	= 5 <dec>	AND=ZAZ9C999
	ET=+ UT=+00.00.01	HIFI_Tune_WBS  HIFI_Tune_WBS  Command Parameter(s) : HIFI_BB_ID                  HP001197 HIF_WBS_tune_target          HP074197  Subsch. ID : 70 Det. descr. : Find optimal setting for WBS attenuators	HC144289  E130001 <hex> 80 <dec>	
	ET=+ UT=+00.00.10	HIFI_config_spectroscopy  HIFI_config_spectroscopy  Command Parameter(s) : HIFI_BB_ID                  HP001197 HIF_N_WBS_START              HP021197 HIF_R_HRS                  HP022197 HIF_N_WBS_INTEGR              HP023197 HIF_N_HRS_INTEGR              HP024197 HIF_DEL_HRS                  HP025197 HIF_DEL_WBS                  HP026197 HIF_T_ACC_WBS                HP027197 HIF_T_ACC_HRS                HP028197 HIF_WBSH_OFFSET1              HP029197 HIF_WBSH_WIDTH1              HP030197	HC150289  0 <dec> (Def) 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 945 <dec> 929 <dec> 36 <dec> 1976 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197  HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197  Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	2084 <dec> 1976 <dec> 4132 <dec> 1976 <dec> 6180 <dec> 1976 <dec> 36 <dec> 1976 <dec> 2084 <dec> 1976 <dec> 4132 <dec> 1976 <dec> 6180 <dec> 1976 <dec> 0 <dec> (Def)  2 <dec> 0 <dec> 0 <dec> 16_bits_format	
	ET=+ UT=+00.00.00	HIFI_Spectr_total_power HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  236322818 <dec>	
13		Set FPU to band 0		Next Step: 14
		The following TCs should be sent automatically with the defined time separation.		
	ET=+ UT=+00.00.07	HIFI_Configure_FCU_Power HIFI_Configure_FCU_Power  Command Parameter(s) : HIFI_BB_ID HP001197 HF_CPR_Mixer_H_S HP203191 HF_CPR_Mixer_V_S HP204191 HF_CPR_Chopper_S HP205191 HF_CPR_UCH_S HP206191 HF_CPR_UCV_S HP207191  Subsch. ID : 70 Det. descr. : Switch ON or OFF the five FCU-boards (mixer H/V, chopper, IF HV)	HC027289  471859203 <dec> ON (Def) ON (Def) ON (Def) ON (Def) ON (Def)	





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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_CV1_MX_MG_C  HIFI_CV1_MX_MG_C  Command Parameter(s) : HIFI_BB_ID                   HP001197 HF_CV1_MX_MG_C               HP188191  Subsch. ID : 70 Det. descr. : Send single command to set V mixer magnet current	HC099289  471859203 <dec> 0.5 mA	
		Verify Telemetry  HF_DH1_MXBAND               HM005191	= 0 <dec>	AND=ZAZ9C999
		Verify Telemetry  HF_DV1_MXBAND               HM096191	= 0 <dec>	AND=ZAZ9C999
14		Configure WBS with Laser 2		Next Step: 15
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                   HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4               HP157193 HWH_ATT_Band_3               HP156193 HWH_ATT_Band_2               HP155193 HWH_ATT_Band_1               HP154193 HWH_ATT_IN                   HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  238354435 <dec> OFF (Def) ON 0 <dec> (Def) Level1 7 dB 7 dB 7 dB 7 dB 15 dB	
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                   HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4               HP167193 HWV_ATT_Band_3               HP166193 HWV_ATT_Band_2               HP165193 HWV_ATT_Band_1               HP164193 HWV_ATT_IN                   HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  238354435 <dec> OFF (Def) ON 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	
		Verify Telemetry  HWH_Laser2_S               HM016193	= ON	AND=ZAZ9D999





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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID          HP001197 HWV_LASER1_S      HP168193 HWV_LASER2_S      HP169193 HWV_Heater         HP170193 HWV_Latchup_S      HP171193 HWV_ATT_Band_4     HP167193 HWV_ATT_Band_3     HP166193 HWV_ATT_Band_2     HP165193 HWV_ATT_Band_1     HP164193 HWV_ATT_IN         HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  238682114 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID          HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  236322819 <dec>	
	ET=+ UT=+00.00.07	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID          HP001197 HIFI_cmd             HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242876418 <dec> HWH_ZERO_OFF	
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID          HP001197 HIFI_cmd             HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242876418 <dec> HWH_ZERO_OFF	
	ET=+ UT=+00.00.01	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID          HP001197 HIFI_cmd             HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242876418 <dec> HWH_COMB_OFF	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID                  HP001197 HIFI_cmd                  HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242876418 <dec> HWV_COMB_OFF	
	ET=+ UT=+00.00.02	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 14 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 14 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 13 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 13 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 12 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 12 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 11 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 11 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 9 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                  HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 9 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                   HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 8 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 8 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 7 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 6 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 6 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 4 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                  HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 4 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                   HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 3 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 3 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 2 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 2 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 1 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 1 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242876418 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID            HP001197 HWH_LASER1_S        HP158193 HWH_LASER2_S        HP159193 HWH_Heater            HP160193 HWH_Latchup_S        HP161193 HWH_ATT_Band_4        HP157193 HWH_ATT_Band_3        HP156193 HWH_ATT_Band_2        HP155193 HWH_ATT_Band_1        HP154193 HWH_ATT_IN            HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Levell 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID            HP001197 HWV_LASER1_S        HP168193 HWV_LASER2_S        HP169193 HWV_Heater            HP170193 HWV_Latchup_S        HP171193 HWV_ATT_Band_4        HP167193 HWV_ATT_Band_3        HP166193 HWV_ATT_Band_2        HP165193 HWV_ATT_Band_1        HP164193 HWV_ATT_IN            HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242876418 <dec> OFF (Def) ON 0 <dec> (Def) Levell 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID            HP001197 HIFI_cmd                HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242941954 <dec> HWH_ZERO_OFF	
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID            HP001197 HIFI_cmd                HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  242941954 <dec> HWV_ZERO_OFF	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Single_cmd  HIFI_Single_cmd  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HIFI_cmd                  HP235197  <i>Subsch. ID : 70</i> <i>Det. descr. : Send a single command to LS command bus</i>	HC102289  242941954 <dec> HWH_COMB_OFF	
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HIFI_cmd                  HP235197  <i>Subsch. ID : 70</i> <i>Det. descr. : Send a single command to LS command bus</i>	HC102289  242941954 <dec> HWV_COMB_OFF	
	ET=+ UT=+00.00.02	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S          HP158193 HWH_LASER2_S          HP159193 HWH_Heater              HP160193 HWH_Latchup_S          HP161193 HWH_ATT_Band_4          HP157193 HWH_ATT_Band_3          HP156193 HWH_ATT_Band_2          HP155193 HWH_ATT_Band_1          HP154193 HWH_ATT_IN              HP153193  <i>Subsch. ID : 70</i> <i>Det. descr. : Configure WBS-H</i>	HC032289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S          HP168193 HWV_LASER2_S          HP169193 HWV_Heater              HP170193 HWV_Latchup_S          HP171193 HWV_ATT_Band_4          HP167193 HWV_ATT_Band_3          HP166193 HWV_ATT_Band_2          HP165193 HWV_ATT_Band_1          HP164193 HWV_ATT_IN              HP163193  <i>Subsch. ID : 70</i> <i>Det. descr. : Configure WBS-H</i>	HC033289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941954 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 6 <dec> 6 <dec> 6 <dec> 6 <dec> 6 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 6 <dec> 6 <dec> 6 <dec> 6 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941954 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 5 <dec> 5 <dec> 5 <dec> 5 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 5 <dec> 5 <dec> 5 <dec> 5 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941954 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193	HC032289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 4 <dec> 4 <dec> 4 <dec> 4 <dec> 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 4 <dec> 4 <dec> 4 <dec> 4 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941954 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 3 <dec> 3 <dec> 3 <dec> 3 <dec> 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                 HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4               HP167193 HWV_ATT_Band_3               HP166193 HWV_ATT_Band_2               HP165193 HWV_ATT_Band_1               HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 3 <dec> 3 <dec> 3 <dec> 3 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                   HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941954 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S                 HP158193 HWH_LASER2_S                 HP159193 HWH_Heater                   HP160193 HWH_Latchup_S                 HP161193 HWH_ATT_Band_4                 HP157193 HWH_ATT_Band_3                 HP156193 HWH_ATT_Band_2                 HP155193 HWH_ATT_Band_1                 HP154193 HWH_ATT_IN                   HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 2 <dec> 2 <dec> 2 <dec> 2 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S                 HP168193 HWV_LASER2_S                 HP169193 HWV_Heater                   HP170193 HWV_Latchup_S                 HP171193 HWV_ATT_Band_4                 HP167193 HWV_ATT_Band_3                 HP166193 HWV_ATT_Band_2                 HP165193 HWV_ATT_Band_1                 HP164193 HWV_ATT_IN                   HP163193	HC033289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 2 <dec> 2 <dec> 2 <dec> 2 <dec> 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941954 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Levell 1 <dec> 1 <dec> 1 <dec> 1 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Levell 1 <dec> 1 <dec> 1 <dec> 1 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941954 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  242941954 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193	HC032289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242941954 <dec> OFF (Def) ON 0 <dec> (Def) Levell 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	
19		WBS linearity test with Laser 2		Next Step: 20
	ET=+ UT=+00.00.01	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID HP001197 HIFI_cmd HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  243007490 <dec> HWH_ZERO_OFF	
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID HP001197 HIFI_cmd HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  243007490 <dec> HWH_ZERO_OFF	
	ET=+ UT=+00.00.01	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID HP001197 HIFI_cmd HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  243007490 <dec> HWH_COMB_OFF	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.00	HIFI_Single_cmd  HIFI_Single_cmd  Command Parameter(s) : HIFI_BB_ID                  HP001197 HIFI_cmd                  HP235197  Subsch. ID : 70 Det. descr. : Send a single command to LS command bus	HC102289  243007490 <dec> HWV_COMB_OFF	
	ET=+ UT=+00.00.02	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                  HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 15 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                   HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 14 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 14 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 14 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                   HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                   HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 14 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                   HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                   HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                   HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 13 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                   HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                   HP163193	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 13 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 13 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 13 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 12 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 12 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 12 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 12 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 11 <dec>	
		Subsch. ID : 70 Det. descr. : Configure WBS-H		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 11 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 11 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 11 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 10 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 9 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 9 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 9 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 9 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 8 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 8 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 1 <dec> 8 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 1 <dec> 8 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                  HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4              HP167193 HWV_ATT_Band_3              HP166193 HWV_ATT_Band_2              HP165193 HWV_ATT_Band_1              HP164193 HWV_ATT_IN                  HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 7 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                   HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                  HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4              HP157193 HWH_ATT_Band_3              HP156193 HWH_ATT_Band_2              HP155193 HWH_ATT_Band_1              HP154193 HWH_ATT_IN                  HP153193	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 7 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 7 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 6 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 6 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 6 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 6 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Levell 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 5 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                 HP160193 HWH_Latchup_S             HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                 HP153193	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 4 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 4 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 4 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                   HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4               HP167193 HWV_ATT_Band_3               HP166193 HWV_ATT_Band_2               HP165193 HWV_ATT_Band_1               HP164193 HWV_ATT_IN                   HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 4 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID                   HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWH_LASER1_S               HP158193 HWH_LASER2_S               HP159193 HWH_Heater                   HP160193 HWH_Latchup_S               HP161193 HWH_ATT_Band_4               HP157193 HWH_ATT_Band_3               HP156193 HWH_ATT_Band_2               HP155193 HWH_ATT_Band_1               HP154193 HWH_ATT_IN                   HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 3 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID                   HP001197 HWV_LASER1_S               HP168193 HWV_LASER2_S               HP169193 HWV_Heater                   HP170193 HWV_Latchup_S               HP171193 HWV_ATT_Band_4               HP167193 HWV_ATT_Band_3               HP166193 HWV_ATT_Band_2               HP165193 HWV_ATT_Band_1               HP164193 HWV_ATT_IN                   HP163193	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 3 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 1 <dec> 3 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 3 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	

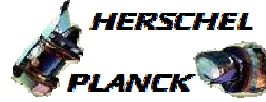
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 2 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 2 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 2 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 2 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 1 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                 HP170193 HWV_Latchup_S             HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                 HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 1 <dec>	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWH_LASER1_S              HP158193 HWH_LASER2_S              HP159193 HWH_Heater                  HP160193 HWH_Latchup_S              HP161193 HWH_ATT_Band_4             HP157193 HWH_ATT_Band_3             HP156193 HWH_ATT_Band_2             HP155193 HWH_ATT_Band_1             HP154193 HWH_ATT_IN                  HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 1 <dec>	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  <i>Command Parameter(s) :</i> HIFI_BB_ID                  HP001197 HWV_LASER1_S              HP168193 HWV_LASER2_S              HP169193 HWV_Heater                  HP170193 HWV_Latchup_S              HP171193 HWV_ATT_Band_4             HP167193 HWV_ATT_Band_3             HP166193 HWV_ATT_Band_2             HP165193 HWV_ATT_Band_1             HP164193 HWV_ATT_IN                  HP163193	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 1 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193 Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def) 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197 Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 1 <dec> 1 <dec> 1 <dec> 1 <dec> 0 <dec> (Def)	
	ET=+ UT=+00.00.01	HIFI_Spectr_total_power  HIFI_Spectr_total_power  Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  243007490 <dec>	
	ET=+ UT=+00.00.07	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193	HC032289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Subsch. ID : 70 Det. descr. : Configure WBS-H		
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  243007490 <dec> OFF (Def) ON 0 <dec> (Def) Level1 7 <dec> 7 <dec> 7 <dec> 7 <dec> 7 <dec> 15 <dec>	
20		WBS latchup test with Laser 2		Next Step: 21
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_H  HIFI_Configure_WBS_H  Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  242286595 <dec> OFF (Def) ON 0 <dec> (Def) Level2 (Def) 0 dB (Def) 3 dB 1 dB 3 dB 10 dB	
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V  HIFI_Configure_WBS_V  Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242286595 <dec> OFF (Def) ON 0 <dec> (Def) Level2 (Def) 0 <dec> (Def) 2 <dec> 2 <dec> 3 <dec> 0 <dec> (Def)	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry HWH_LUP_level_S HM018193	= High	AND=ZAZ9D999
		Verify Telemetry HWV_LUP_level_S HM057193	= High	AND=ZAZ9D999
	ET=+ UT=+00.00.01	HIFI_Configure_WBS_H HIFI_Configure_WBS_H Command Parameter(s) : HIFI_BB_ID HP001197 HWH_LASER1_S HP158193 HWH_LASER2_S HP159193 HWH_Heater HP160193 HWH_Latchup_S HP161193 HWH_ATT_Band_4 HP157193 HWH_ATT_Band_3 HP156193 HWH_ATT_Band_2 HP155193 HWH_ATT_Band_1 HP154193 HWH_ATT_IN HP153193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC032289  E710004 <hex> OFF (Def) ON 0 <dec> (Def) Level1 0 dB (Def) 3 dB 1 dB 3 dB 10 dB	
	ET=+ UT=+00.00.00	HIFI_Configure_WBS_V HIFI_Configure_WBS_V Command Parameter(s) : HIFI_BB_ID HP001197 HWV_LASER1_S HP168193 HWV_LASER2_S HP169193 HWV_Heater HP170193 HWV_Latchup_S HP171193 HWV_ATT_Band_4 HP167193 HWV_ATT_Band_3 HP166193 HWV_ATT_Band_2 HP165193 HWV_ATT_Band_1 HP164193 HWV_ATT_IN HP163193  Subsch. ID : 70 Det. descr. : Configure WBS-H	HC033289  242286596 <dec> OFF (Def) ON 0 <dec> (Def) Level1 0 <dec> (Def) 2 <dec> 2 <dec> 3 <dec> 0 <dec> (Def)	
		Verify Telemetry HWH_LUP_level_S HM018193	= Low	AND=ZAZ9D999
		Verify Telemetry HWV_LUP_level_S HM057193	= Low	AND=ZAZ9D999
21		WBS tuning with Laser 2		Next Step: 22



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Det. descr. : Configure the FCU-subsystem (redundant)		
	ET=+ UT=+00.00.03	HIFI_CH1_MX_MG_C  HIFI_CH1_MX_MG_C  Command Parameter(s) : HIFI_BB_ID           HP001197 HF_CH1_MX_MG_C       HP173191  Subsch. ID : 70 Det. descr. : Send single command to set H mixer magnet current	HC096289  1C200004 <hex> 5.5 mA	
	ET=+ UT=+00.00.00	HIFI_CV1_MX_MG_C  HIFI_CV1_MX_MG_C  Command Parameter(s) : HIFI_BB_ID           HP001197 HF_CV1_MX_MG_C       HP188191  Subsch. ID : 70 Det. descr. : Send single command to set V mixer magnet current	HC099289  1C200004 <hex> 10.8 mA	
		Verify Telemetry HF_DH1_MXBAND        HM005191	= 5 <dec>	AND=ZAZ9C999
		Verify Telemetry HF_DV1_MXBAND        HM096191	= 5 <dec>	AND=ZAZ9C999
	ET=+ UT=+00.00.01	HIFI_Tune_WBS  HIFI_Tune_WBS  Command Parameter(s) : HIFI_BB_ID           HP001197 HIF_WBS_tune_target   HP074197  TC Control Flags : GBM IL DSE --Y -- ---  Subsch. ID : 70 Det. descr. : Find optimal setting for WBS attenuators	HC144289  E130002 <hex> 80 <dec>	
	ET=+ UT=+00.00.10	HIFI_config_spectroscopy  HIFI_config_spectroscopy  Command Parameter(s) : HIFI_BB_ID           HP001197 HIF_N_WBS_START       HP021197 HIF_R_HRS             HP022197 HIF_N_WBS_INTEGR      HP023197 HIF_N_HRS_INTEGR      HP024197 HIF_DEL_HRS           HP025197 HIF_DEL_WBS           HP026197 HIF_T_ACC_WBS         HP027197 HIF_T_ACC_HRS         HP028197 HIF_WBSH_OFFSET1      HP029197 HIF_WBSH_WIDTH1       HP030197	HC150289  0 <hex> (Def) 4 <dec> 1 <dec> (Def) 2 <dec> 2 <dec> 2 <dec> 4 <dec> 945 <dec> 929 <dec> 36 <dec> 1976 <dec>	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIF_WBSH_OFFSET2 HP031197 HIF_WBSH_WIDTH2 HP032197 HIF_WBSH_OFFSET3 HP033197 HIF_WBSH_WIDTH3 HP034197 HIF_WBSH_OFFSET4 HP035197 HIF_WBSH_WIDTH4 HP036197 HIF_WBSV_OFFSET1 HP037197 HIF_WBSV_WIDTH1 HP038197 HIF_WBSV_OFFSET2 HP039197 HIF_WBSV_WIDTH2 HP040197 HIF_WBSV_OFFSET3 HP041197 HIF_WBSV_WIDTH3 HP042197 HIF_WBSV_OFFSET4 HP043197 HIF_WBSV_WIDTH4 HP044197 HIF_HRS_RSHIFT HP045197  HIF_WBS_RSHIFT HP046197 HIF_HRSH_SEL HP047197 HIF_HRSV_SEL HP048197 HIF_WBS_packing HP049197  Subsch. ID : 70 Det. descr. : Specify parameters for next spectroscopy measurement	2084 <dec> 1976 <dec> 4132 <dec> 1976 <dec> 6180 <dec> 1976 <dec> 36 <dec> 1976 <dec> 2084 <dec> 1976 <dec> 4132 <dec> 1976 <dec> 6180 <dec> 1976 <dec> 0 <dec> (Def)  2 <dec> 0 <dec> 0 <dec> 16_bits_format	
	ET=+ UT=+00.00.00	HIFI_Spectr_total_power HIFI_Spectr_total_power Command Parameter(s) : HIFI_BB_ID HP001197  Subsch. ID : 70 Det. descr. : Start total-power spectroscopy measurement	HC151289  E160004 <hex>	
	ET=+ UT=+00.00.07	HIFI_Housekeeping_on HIFI_Housekeeping_on Command Parameter(s) : HIF_HK_rate HP012197 HIF_FCU_S HP006197 HIF_LCU_S HP007197 HIF_WBSV_S HP009197 HIF_WBSH_S HP008197 HIF_HRSV_S HP011197 HIF_HRSH_S HP010197  Subsch. ID : 70 Det. descr. : Sets periodic housekeeping packet generation period	HC016289  1_pkt_per_4_s ON (Def) ON (Def) ON (Def) ON (Def) ON (Def) ON (Def)	
		Verify: The following TM(3,25) packets should be produced once every 4 seconds:  HIFI_essential_HK (APID 1025) HIFI_HK_rev_7 (APID 1027)		
22		Set default OBSID/BBID		Next Step: END

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	HIFI_Set_OBS_ID  HIFI_Set_OBS_ID  <i>Command Parameter(s) :</i> HIFI_BB_ID            HP001197 HIFI_OBS_ID         HP000197  <i>Subsch. ID : 70</i> Det. descr. : Set Observation-ID and Building-Block-ID	HC014289  0 <hex> (Def) 0 <hex> (Def)	
		Verify Telemetry BB_ID_per_hk            HM004190	= 0 <hex>	AND=ZAZ9C999
		Verify Telemetry OBS_ID_per_hk         HM003190	= 0 <hex>	AND=ZAZ9C999
<b>End of Procedure</b>				