APPENDIX H: POWER REDUCTION VERIFICATION PROCEDURE

This device supports manufacturer's proprietary power reduction mechanism called, 'Detect mode' for the Main Cellular Antenna. Details of this mechanism can be found in the Operational Description.

The verification plan consists of two parts.

- Verification of the detect mechanism
- Verification of the power reduction levels

The verification plan for the overall power setting is proposed to follow the Table 1 below.

A. Verification of the detect mechanism

Body detect verification will be done with following test cases.

- In-hand
- On-lap with little or no voluntary movement
- On a stationary object
- B. Verification of power reduction levels

Table 1 lists the test plan. Since the reduction mechanism is antenna agnostic all tests will be conducted by locking transmission to one antenna and then verifying power.

Table 1

Cellular ²	Test Cases	Head Cell Table ¹	Body Cell Table ¹			
	GSM 850 (2Slots)					
	GSM 1900 (2Slots)	28 dBm	20.75 dBm			
	CDMA BC10					
	CDMA					
	BC0					
	CDMA	22.7 dBm	14.5 dBm			
	BC1					
	WCDMA B5					
	WCDMA B4	22.7 dBm	15.5 dBm			

	WCDMA	22.7 dBm				14.5 dBm				
	B2									
	.== =									
	LTE B12									
	LTE B13									
	LIL DIS									
	LTE B14									
	LTE B71									
	LTE B5									
	LIL DJ									
	LTE B26									
	LTE B25	B25 22.7 dBm					14.5 dBm			
	LTE B30		22.7	dBm		21 dBm				
	LIL DSO		22.7	иын		ZI UDIII				
	LTE B7		22.25	dBm		17.25 dBm				
	LTE B41		24.25	dBm		19.5 dBm				
	Test Cases	Cell On Head Cell Off Head			Cell On Body Cell Off Body					
		Wi-Fi Table		Wi-Fi Table		Wi-Fi Table		Wi-Fi Table		
Wi-Fi	2.4 GHz	E: 14.5		E: 19.0		E: 16.75		E: 19.75		
1x mode,		2. 1		2. 23.0		2. 20.75		2. 23.73		
rate,		M: 14.1		M: 18.7		M: 16.4		M: 19.50		
channel										
	5.0 GHz	E: 11.0		E: 17.0		E: 13.0		E: 16.75		
		M: 10.6		M: 16.6		M: 12.6		M: 16.3		
	Test Cases	Cell On	Cell On	Cell Off	Cell Off	Cell On	Cell On	Cell Off	Cell Off	
		5GHz On	5GHz Off	5GHz On	5GHz Off	5GHz On	5GHz Off	5GHz On	5GHz Off	
BT 1x rate, channel		Head	Head	Head	Head	Body	Body	Body	Body	
		BT Table	BT Table	BT Table	BT Table	BT Table	BT Table	BT Table	BT Table	
		P_1	P_0	P ₉	P ₉	P ₃	P ₄	P ₆	P ₈	
	Ch 39	E: 8.0	E: 14.0	E: 14.0	E: 14.5	E: 8.5	E: 14.5	E: 14.5	E: 14.5	
		2. 0.0	L. 14.U	L. 14.0	L. 14.J	2. 0.5	L. 14.J	L. 14.J	L. 14.J	
		M: 7.6	M:13.6	M:13.5	M:14.0	M:8.3	M:14.0	M:14.3	M:14.2	
Notes:										

Notes:

^{1.} Head test cases will be done with the device resting on table and body test cases will be done with the device in hand.

^{2.} When there is no delta between the head cell table and body cell table within a test case, we will exclude that test case