



FCC SAR TEST REPORT

FCC ID : A4RG1MNW
Equipment : Phone
Model Name : G1MNW
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Feb. 20, 2023 and testing was started from Apr. 12, 2023 and completed on Aug. 15, 2023. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.

Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA2D0206-01F	01	Initial issue of report	Jun. 23, 2023
FA2D0206-01F	02	1. Update section 2.1, section 2.2, section 3.1, section 12, section 15, section 15.3, section 15.7 and section 15.8 2. Update appendix D and H	Jul. 18, 2023
FA2D0206-01F	03	1. Update section 9, section 10.1 and section 10.2 2. Update appendix A, C, E, G and H	Aug. 15, 2023
FA2D0206-01F	04	1. Update section 2.2 and appendix F	Aug. 21, 2023



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Google LLC, Phone, G1MNV, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)	Highest Simultaneous Transmission 10g SAR (W/kg)
		Head (Separation 0mm)	Body-worn (Separation 10mm)	Hotspot (Separation 10mm)	Product Specific (Separation 0mm)		
		1g SAR (W/kg)			10g SAR (W/kg)		
Licensed	GSM850	0.87	0.99	0.85		1.59	2.48
	GSM1900	0.56	0.63	0.82			
	WCDMA II	0.75	0.95	0.84	2.46		
	WCDMA IV	0.47	0.70	0.74			
	WCDMA V	0.94	0.68	0.72			
	LTE Band 2	0.99	0.51	0.77			
	LTE Band 7	0.76	0.92	0.78	1.73		
	LTE Band 12 / 17	0.99	0.46	0.48			
	LTE Band 13	0.81	0.49	0.48			
	LTE Band 14	0.85	0.45	0.48			
	LTE Band 25	0.79	0.70	0.74	2.34		
	LTE Band 5 / 26	0.88	0.72	0.72			
	LTE Band 30	0.22	0.93	0.85	2.48		
	LTE Band 38 / 41	0.36	0.65	0.78			
	LTE Band 48	0.59	0.64	0.79			
	LTE Band 4 / 66	0.94	0.70	0.83	2.47		
	LTE Band 71	0.98	0.40	0.56			
	FR1 n2	1.00	0.69	0.84			
	FR1 n7	0.73	0.96	0.76	2.04		
	FR1 n12	0.96	0.38	0.52			
	FR1 n25	0.84	0.69	0.85	2.45		
	FR1 n5 / n26	0.77	0.72	0.72			
	FR1 n30	0.44	0.96	0.82	2.32		
FR1 n66	0.99	0.76	0.82	2.25			
FR1 n70	0.33	0.59	0.79				
FR1 n71	0.97	0.31	0.49				
FR1 n38/n41	0.90	0.98	0.84				
FR1 n48	0.88	0.38	0.41				
FR1 n77 / n78	0.94	0.63	0.82				
DTS	2.4GHz WLAN	1.12	1.02	0.63		1.59	
NII	5GHz WLAN	1.05	0.71	0.61	2.24	1.59	2.48
6CD	6GHz WLAN	0.29	0.27		0.38	1.59	2.48
DSS	Bluetooth	0.21	0.35	0.29		1.59	
DXX	13.56MHz				0.09		2.48
Equipment Class	Frequency Band	Head Reported APD (mW/cm ²)	Body-worn Reported APD (mW/cm ²)	Product Specific Reported APD (mW/cm ²)	Reported PD (mW/cm ²)		
6CD	6GHz WLAN	0.19	0.19	0.88	0.55		
Date of Testing:		2023/4/12 ~ 2023/8/15					

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093), Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang
Report Producer: Carlie Tsai



2. Equipment Under Test (EUT) Information

2.1 General Information

Product Feature & Specification	
Equipment Name	Phone
Model Name	G1M1NW
FCC ID	A4RG1M1NW
S / N	33161FDJG000A0, 33291FDJG0001P, 33291FDJG00016, 33141FDJG0003K, 33161FDJG000AG, 33161FDJG0009W, 33291FDJG0001B
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz 5G NR n258 : 24.25 GHz~24.45 GHz, 24.75GHz ~25.25GHz 5G NR n260 : 37 GHz~40 GHz 5G NR n261 : 27.5 GHz~28.35 GHz WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2G Band: 5150 MHz ~ 5250 MHz WLAN 5.3G Band: 5250 MHz ~ 5350 MHz WLAN 5.5G Band: 5470 MHz ~ 5725 MHz WLAN 5.8G Band: 5725 MHz ~ 5850 MHz WLAN 5.9G Band: 5850 MHz ~ 5895 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz WPT: 110.1 KHz ~ 148.5 KHz UWB: 6489.6 MHz, 7987.2 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160 Bluetooth BR/EDR/LE/HR NFC: ASK



	WPT: ASK UWB: BPM-BPSK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
Remark:	
<ol style="list-style-type: none"> Dynamic antenna tuning mechanism is available at Ant. 0 and 2 for its < 3GHz LTE and NR band, and the supplemental antenna tuner test results were include in appendix G, details are illustrated in the operational description. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications. The device implements the power management and sensor detection for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the TAS feature will manage to ensure the power level not exceeding the associated power table. And also implement Spatial TAS predefine antenna group to analysis simultaneous transmission include in appendix F. The device implements the sensor detection for SAR compliance and the power verification include in appendix E The UWB output power is -11.6dBm and it is less than 1mW and exempt from power density testing. 	

2.2 Maximum Tune-up Limit

General Note:

- In the report PC3 as power class3, PC2 as power class2, PC1.5 as power class1.5.
- For each cellular band, the device has several WWAN antennas, the antenna selection is based on the connection quality condition.
- The following table shows maximum output power configurations for various exposure conditions (output power index) with tune-up tolerance accounted. For TAS enabled bands, the values associate with Plimit plus the total uncertainty, or Pmax plus total uncertainty when the derived Plimit is higher than Pmax. In some frequency bands, for some power indexes which associate with the same power level, conducted power measurement for those only need to perform at once. Detail output power measurement refer to appendix D.
- The index 1 is for the max power conditions, and the use case were evaluated in appendix G.
- SAR compliance for the scenario, when device in next-to-ear voice call with hotspot enabled, is justified via head SAR test at Power Index 3.
- The device additionally support uplink MIMO on n41/n48/n77/n78, the TAS feature will control the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit, the uplink MIMO compliance is validated include in the TAS Part2 report No.: FA2D0206-01E.
- The PC1.5 only support uplink MIMO.
- The PC1.5 NR SAR was not required, due to PC1.5 operate in the time-averaged and burst transmission power is less than PC2, therefore, only PC2 was performed on the highest SAR test configuration in PC3, and use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%.

Antenna configuration	
Transmit switching diversity configuration	Support transmit antenna and band
TX 0	ANT 0: GSM850, UMTS B5, LTE B5/B12/B13/B14/B17/B26/B71, NR n5/n12/n26/n71 ANT 1: LTE B2/B4/B66, NR n2/n38/n41/n48/n66/n77/n78 ANT 2: GSM1900, UMTS B2/B4, LTE B2/B4/B7/B25/B30/B38/B41/B66, NR n2/n7/n25/n30/n38/n41/n66/n70 ANT 6: LTE B48, NR n48/n77/78
TX 1	ANT 0: GSM1900, UMTS B2/B4, LTE B2/B4/B7/B25/B30/B38/B41/B66, NR n2/n7/n25/n30/n38/n41/n66/n70 ANT 1: GSM850, UMTS B5, LTE B5/B12/B13/B14/B17/B26/B71, NR n5/n12/n26/n71 ANT 5: LTE B2/B4/B66, NR n2/n38/n41/n48/n66/n77/n78 ANT 7: LTE B48, NR n48/n77/n78



Maximum Transmit Burst Average Power (dBm)								
Band	Antenna	Duty cycle	Maximum Power Condition	Head		Hotspot	Body-worn/Extremity	
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
				Index 1	Index 2	Index 3	Index 4	Index 5
GSM850 GPRS 1TX	0	12.50%	33.5	33.5	33.5	33.5	33.5	33.5
GSM850 GPRS 2TX	0	25.00%	32.5	32.5	32.1	31.9	32.5	32.4
GSM850 GPRS 3TX	0	37.50%	31.5	31.0	30.3	30.1	31.3	30.6
GSM850 GPRS 4TX	0	50.00%	30.5	29.8	29.1	28.9	30.1	29.4
GSM850 EDGE 1TX	0	12.50%	28.0	28.0	28.0	28.0	28.0	28.0
GSM850 EDGE 2TX	0	25.00%	27.5	27.5	27.5	27.5	27.5	27.5
GSM850 EDGE 3TX	0	37.50%	27.5	27.5	27.5	27.5	27.5	27.5
GSM850 EDGE 4TX	0	50.00%	25.5	25.5	25.5	25.5	25.5	25.5
GSM850 GPRS 1TX	1	12.50%	33.1	31.2	30.5	33.1	33.1	33.1
GSM850 GPRS 2TX	1	25.00%	32.1	28.2	27.5	31.9	32.1	31.9
GSM850 GPRS 3TX	1	37.50%	31.1	26.4	25.7	30.1	30.8	30.1
GSM850 GPRS 4TX	1	50.00%	30.1	25.2	24.5	28.9	29.6	28.9
GSM850 EDGE 1TX	1	12.50%	27.6	27.6	27.6	27.6	27.6	27.6
GSM850 EDGE 2TX	1	25.00%	27.1	27.1	27.1	27.1	27.1	27.1
GSM850 EDGE 3TX	1	37.50%	27.1	26.4	25.7	27.1	27.1	27.1
GSM850 EDGE 4TX	1	50.00%	25.1	25.1	24.5	25.1	25.1	25.1
GSM1900 GPRS 1TX	0	12.50%	30.2	30.2	30.2	28.5	30.0	29.3
GSM1900 GPRS 2TX	0	25.00%	28.7	28.7	28.7	25.5	27.0	26.3
GSM1900 GPRS 3TX	0	37.50%	28.2	28.2	28.2	23.7	25.2	24.5
GSM1900 GPRS 4TX	0	50.00%	27.2	27.2	27.2	22.5	24.0	23.3
GSM1900 EDGE 1TX	0	12.50%	25.2	25.2	25.2	25.2	25.2	25.2
GSM1900 EDGE 2TX	0	25.00%	24.2	24.2	24.2	24.2	24.2	24.2
GSM1900 EDGE 3TX	0	37.50%	24.2	24.2	24.2	23.7	24.2	24.2
GSM1900 EDGE 4TX	0	50.00%	23.2	23.2	23.2	22.5	23.2	23.2
GSM1900 GPRS 1TX	2	12.50%	31.0	31.0	31.0	29.5	30.2	29.5
GSM1900 GPRS 2TX	2	25.00%	29.5	29.5	29.5	26.5	27.2	26.5
GSM1900 GPRS 3TX	2	37.50%	29.0	29.0	29.0	24.7	25.4	24.7
GSM1900 GPRS 4TX	2	50.00%	28.0	28.0	28.0	23.5	24.2	23.5
GSM1900 EDGE 1TX	2	12.50%	26.0	26.0	26.0	26.0	26.0	26.0
GSM1900 EDGE 2TX	2	25.00%	25.0	25.0	25.0	25.0	25.0	25.0
GSM1900 EDGE 3TX	2	37.50%	25.0	25.0	25.0	24.7	25.0	24.7
GSM1900 EDGE 4TX	2	50.00%	24.0	24.0	24.0	23.5	24.0	23.5
WCDMA B2	0	100.00%	25.2	25.2	25.2	18.7	20.8	20.1
WCDMA B2	2	100.00%	25.4	25.4	25.4	20.7	21.4	20.7
WCDMA B4	0	100.00%	25.2	25.2	25.2	19.0	19.7	19.0
WCDMA B4	2	100.00%	25.4	25.4	25.4	20.7	21.4	20.7
WCDMA B5	0	100.00%	25.4	25.4	25.4	25.4	25.4	25.4
WCDMA B5	1	100.00%	25.5	22.7	22.0	25.5	25.5	25.5



Maximum Transmit Burst Average Power (dBm)								
Band	Antenna	Duty cycle	Maximum Power Condition	Head		Hotspot	Body-worn/Extremity	
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
				Index 1	Index 2	Index 3	Index 4	Index 5
LTE B2	1	100.00%	25.4	17.0	16.3	20.8	21.5	20.8
LTE B2	5	100.00%	25.2	19.6	18.9	21.7	22.4	21.7
LTE B7	0	100.00%	25.0	25.0	25.0	17.7	22.0	21.3
LTE B7	2	100.00%	25.4	25.4	25.4	21.5	22.2	21.5
LTE B12/17	0	100.00%	25.4	25.4	25.4	25.4	25.4	25.4
LTE B12/17	1	100.00%	25.5	23.2	22.5	25.5	25.5	25.5
LTE B13	0	100.00%	25.4	25.4	25.4	25.4	25.4	25.4
LTE B13	1	100.00%	25.5	24.2	23.5	25.5	25.5	25.5
LTE B14	0	100.00%	25.4	25.4	25.4	25.4	25.4	25.4
LTE B14	1	100.00%	25.5	23.3	22.6	25.5	25.5	25.5
LTE B25/2	0	100.00%	25.2	25.2	25.2	18.2	20.5	19.8
LTE B25/2	2	100.00%	25.4	25.4	25.4	21.0	21.7	21.0
LTE B26/5	0	100.00%	25.4	25.4	25.4	25.4	25.4	25.4
LTE B26/5	1	100.00%	25.4	21.8	21.1	25.4	25.4	25.4
LTE B30	0	100.00%	23.4	23.4	23.4	18.2	20.8	20.1
LTE B30	2	100.00%	23.1	23.1	23.1	20.9	21.6	20.9
LTE B41/38 PC3	0	63.30%	23.5	23.5	23.5	19.3	23.1	22.4
LTE B41/38 PC3	2	63.30%	23.9	23.9	23.9	23.2	23.9	23.2
LTE B41/38 PC2	0	43.30%	26.5	26.5	26.5	20.9	24.7	24.0
LTE B41/38 PC2	2	43.30%	26.9	26.9	26.9	24.8	25.5	24.8
LTE B48 PC3	6	63.30%	22.4	22.4	22.4	20.7	21.4	20.7
LTE B48 PC3	7	63.30%	24.7	24.7	24.7	23.7	24.4	23.7
LTE B66/4	0	100.00%	25.2	25.2	25.2	18.4	19.9	19.2
LTE B66/4	1	100.00%	25.4	18.0	17.3	22.0	22.7	22.0
LTE B66/4	2	100.00%	25.4	25.4	25.4	21.0	21.7	21.0
LTE B66/4	5	100.00%	25.2	20.5	19.8	22.4	23.1	22.4
LTE B71	0	100.00%	25.4	25.4	25.4	25.4	25.4	25.4
LTE B71	1	100.00%	25.5	23.9	23.2	25.5	25.5	25.5



Maximum Transmit Burst Average Power (dBm)								
Band	Antenna	Duty cycle	Maximum Power Condition	Head		Hotspot	Body-worn/Extremity	
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
				Index 1	Index 2	Index 3	Index 4	Index 5
FR1 n2	1	100.00%	25.4	17.2	16.5	20.8	21.6	20.9
FR1 n2	5	100.00%	25.2	18.7	18.0	21.6	23.0	22.3
FR1 n7	0	100.00%	24.3	24.3	24.3	18.4	21.9	21.2
FR1 n7	2	100.00%	25.4	25.4	25.4	22.1	22.8	22.1
FR1 n12	0	100.00%	25.4	25.4	25.4	25.4	25.4	25.4
FR1 n12	1	100.00%	25.2	25.2	24.6	25.2	25.2	25.2
FR1 n25/2	0	100.00%	25.2	25.2	25.2	18.8	20.6	19.9
FR1 n25/2	2	100.00%	25.4	25.4	25.4	20.6	21.3	20.6
FR1 n26/5	0	100.00%	25.4	25.4	25.4	25.4	25.4	25.4
FR1 n26/5	1	100.00%	25.4	22.6	21.9	25.4	25.4	25.4
FR1 n30	0	100.00%	23.4	23.4	23.4	18.2	20.7	20.0
FR1 n30	2	100.00%	23.1	23.1	23.1	21.6	22.3	21.6
FR1 n38 PC3	0	100.00%	25.0	25.0	25.0	18.8	22.4	21.7
FR1 n38 PC3	1	100.00%	25.4	17.7	17.0	21.1	23.0	22.3
FR1 n38 PC3	2	100.00%	25.4	25.4	25.4	21.2	21.9	21.2
FR1 n38 PC3	5	100.00%	25.0	21.1	20.4	20.4	22.3	21.6
FR1 n41 PC3	0	100.00%	23.5	23.5	23.5	18.8	22.4	21.7
FR1 n41 PC3	1	100.00%	23.9	17.7	17.0	21.1	23.0	22.3
FR1 n41 PC3	2	100.00%	23.9	23.9	23.9	21.2	21.9	21.2
FR1 n41 PC3	5	100.00%	23.5	21.1	20.4	20.4	22.3	21.6
FR1 n41 PC2	0	50.00%	26.5	26.5	26.5	21.8	25.4	24.7
FR1 n41 PC2	1	50.00%	26.9	20.7	20.0	24.1	26.0	25.3
FR1 n41 PC2	2	50.00%	26.9	26.9	26.9	24.2	24.9	24.2
FR1 n41 PC2	5	50.00%	26.2	24.1	23.4	23.4	25.3	24.6
FR1 n41 PC1.5	0	25.00%	25.0	25.0	25.0	21.8	25.0	24.7
FR1 n41 PC1.5	1	25.00%	25.4	20.7	20.0	24.1	25.4	25.3
FR1 n41 PC1.5	2	25.00%	25.4	25.4	25.4	24.2	24.9	24.2
FR1 n41 PC1.5	5	25.00%	25.0	24.1	23.4	23.4	25.0	24.6
FR1 n48	1	100.00%	22.4	19.0	18.3	20.6	21.3	20.6
FR1 n48	5	100.00%	24.3	21.8	21.1	21.8	22.5	21.8
FR1 n48	6	100.00%	22.4	22.4	22.4	19.1	19.8	19.1
FR1 n48	7	100.00%	24.3	24.3	24.3	20.3	21.0	20.3
FR1 n66	0	100.00%	25.2	25.2	25.2	18.9	19.6	18.9
FR1 n66	1	100.00%	25.4	18.4	17.7	22.3	23.0	22.3
FR1 n66	2	100.00%	25.4	25.4	25.4	22.1	22.8	22.1
FR1 n66	5	100.00%	25.2	19.7	19.0	22.6	23.3	22.6
FR1 n70	0	100.00%	25.2	25.2	25.2	18.8	19.5	18.8
FR1 n70	2	100.00%	25.4	25.4	25.4	22.3	23.0	22.3
FR1 n71	0	100.00%	25.4	25.4	25.4	25.4	25.4	25.4
FR1 n71	1	100.00%	25.2	25.2	24.5	25.2	25.2	25.2
FR1 n77 PC3	1	100.00%	24.1	17.6	16.9	18.0	21.7	21.0
FR1 n77 PC3	5	100.00%	23.6	20.9	20.2	20.8	23.6	22.9
FR1 n77 PC3	6	100.00%	24.6	24.6	24.6	21.7	22.4	21.7
FR1 n77 PC3	7	100.00%	24.0	24.0	24.0	24.0	24.0	24.0
FR1 n77 PC2	1	50.00%	27.1	20.6	19.9	21.0	24.7	24.0
FR1 n77 PC2	5	50.00%	26.6	23.9	23.2	23.8	26.6	25.9
FR1 n77 PC2	6	50.00%	27.6	27.6	27.6	24.7	25.4	24.7
FR1 n77 PC2	7	50.00%	26.4	26.4	26.4	26.4	26.4	26.4
FR1 n77 PC1.5	1	25.00%	25.6	20.6	19.9	21.0	24.7	24.0
FR1 n77 PC1.5	5	25.00%	25.1	23.9	23.2	23.8	25.1	25.1
FR1 n77 PC1.5	6	25.00%	26.1	26.1	26.1	24.7	25.4	24.7
FR1 n77 PC1.5	7	25.00%	24.9	24.9	24.9	24.9	24.9	24.9
FR1 n78 PC3	1	100.00%	24.1	17.6	16.9	18.0	21.7	21.0
FR1 n78 PC3	5	100.00%	24.3	20.9	20.2	20.8	23.6	22.9
FR1 n78 PC3	6	100.00%	24.1	24.1	24.1	21.7	22.4	21.7
FR1 n78 PC3	7	100.00%	24.0	24.0	24.0	24.0	24.0	24.0
FR1 n78 PC2	6	50.00%	27.1	27.1	27.1	24.7	25.4	24.7
FR1 n78 PC2	7	50.00%	26.0	26.0	26.0	26.0	26.0	26.0



<WLAN Maximum Power>

General Note:

1. The device implements the power management for WLAN SAR compliance for different exposure conditions and user cases. In each exposure condition, the power index selection is determined by the user cases as tested in Section 15 of this report. Full details about the proprietary power management decision are illustrated in the operational description.
2. 4+3(3) represents the test in 2TX operation, while the SAR or power data is associated with antenna 3
3. 4+3(4) represents the test in 2TX operation, while the SAR or power data is associated with antenna 4

<Maximum Power – Power index 0>

<2.4GHz WLAN>

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	22.50
		6	2437	22.50
		11	2462	22.50
		12	2467	22.50
13	2472	21.50		

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	22.50
		6	2437	22.50
		11	2462	22.50
		12	2467	22.50
13	2472	20.00		

Burst Average Power (dBm)						
Transmit Antenna	Mode	Channel	Frequency (MHz)	MIMO		
				Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
2.4GHz WLAN	802.11g 6Mbps	1	2412	22.00	22.00	25.00
		6	2437	22.00	22.00	25.00
		11	2462	19.00	19.00	22.00
		12	2467	16.00	16.00	19.00
		13	2472	12.50	12.50	15.50
	802.11n-HT20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
		12	2467	15.50	15.50	18.50
	802.11ac-VHT20 MCS0	13	2472	13.00	13.00	16.00
		1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
	802.11ax-HE20 MCS0	12	2467	15.50	15.50	18.50
		13	2472	13.00	13.00	16.00
		1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
	802.11be-EHT20 MCS0	11	2462	18.50	18.50	21.50
		12	2467	15.50	15.50	18.50
		13	2472	13.00	13.00	16.00
		1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	20.00	20.00	23.00
		40	5200	20.00	20.00	23.00
		44	5220	20.00	20.00	23.00
		48	5240	20.00	20.00	23.00
	802.11n-HT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	20.00	20.00	23.00
		44	5220	20.00	20.00	23.00
	802.11n-HT40 MCS0	48	5240	20.00	20.00	23.00
		38	5190	16.00	16.00	19.00
	802.11ac-VHT20 MCS0	46	5230	20.00	20.00	23.00
		36	5180	19.00	19.00	22.00
		40	5200	20.00	20.00	23.00
		44	5220	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	48	5240	20.00	20.00	23.00
		38	5190	16.00	16.00	19.00
	802.11ac-VHT80 MCS0	46	5230	20.00	20.00	23.00
		42	5210	16.50	16.50	19.50
	802.11ax-HE20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	20.00	20.00	23.00
		44	5220	20.00	20.00	23.00
48		5240	20.00	20.00	23.00	
802.11ax-HE40 MCS0	38	5190	16.00	16.00	19.00	
	46	5230	20.00	20.00	23.00	
802.11ax-HE80 MCS0	42	5210	16.50	16.50	19.50	
	36	5180	19.00	19.00	22.00	
802.11be-EHT20 MCS0	40	5200	20.00	20.00	23.00	
	44	5220	20.00	20.00	23.00	
	48	5240	20.00	20.00	23.00	
	38	5190	16.00	16.00	19.00	
802.11be-EHT40 MCS0	46	5230	20.00	20.00	23.00	
	42	5210	16.50	16.50	19.50	
802.11be-EHT80 MCS0	36	5180	19.00	19.00	22.00	
	40	5200	20.00	20.00	23.00	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna Mode	Channel	Frequency (MHz)	MIMO		
				Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.00	20.00	23.00
		56	5280	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	20.00	20.00	23.00
	802.11n-HT20 MCS0	52	5260	20.00	20.00	23.00
		56	5280	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	18.50	18.50	21.50
	802.11n-HT40 MCS0	54	5270	20.00	20.00	23.00
		62	5310	14.50	14.50	17.50
	802.11ac-VHT20 MCS0	52	5260	20.00	20.00	23.00
		56	5280	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	64	5320	18.50	18.50	21.50
		54	5270	20.00	20.00	23.00
		62	5310	14.50	14.50	17.50
	802.11ac-VHT80 MCS0	58	5290	17.00	17.00	20.00
		802.11ac-VHT160 MCS0	50	5250	15.00	15.00
	802.11ax-HE20 MCS0	52	5260	20.00	20.00	23.00
		56	5280	20.00	20.00	23.00
60		5300	20.00	20.00	23.00	
64		5320	18.50	18.50	21.50	
802.11ax-HE40 MCS0	54	5270	20.00	20.00	23.00	
	62	5310	14.50	14.50	17.50	
802.11ax-HE80 MCS0	58	5290	17.00	17.00	20.00	
802.11ax-HE160 MCS0	50	5250	15.00	15.00	18.00	
802.11be-EHT20 MCS0	52	5260	20.00	20.00	23.00	
	56	5280	20.00	20.00	23.00	
	60	5300	20.00	20.00	23.00	
	64	5320	18.50	18.50	21.50	
802.11be-EHT40 MCS0	54	5270	20.00	20.00	23.00	
	62	5310	14.50	14.50	17.50	
802.11be-EHT80 MCS0	58	5290	17.00	17.00	20.00	
802.11be-EHT160 MCS0	50	5250	15.00	15.00	18.00	



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
		124	5620	19.50	19.50	22.50
		132	5660	19.50	19.50	22.50
		144	5720	19.50	19.50	22.50
	802.11n-HT20 MCS0	100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
		132	5660	20.00	20.00	23.00
	802.11n-HT40 MCS0	102	5510	15.50	15.50	18.50
		110	5550	20.00	20.00	23.00
		126	5630	20.00	20.00	23.00
		134	5670	20.00	20.00	23.00
	802.11ac-VHT20 MCS0	142	5710	20.00	20.00	23.00
		100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	132	5660	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
		102	5510	15.50	15.50	18.50
110		5550	20.00	20.00	23.00	
802.11ac-VHT80 MCS0	126	5630	20.00	20.00	23.00	
	134	5670	20.00	20.00	23.00	
	142	5710	20.00	20.00	23.00	
	106	5530	15.50	15.50	18.50	
802.11ac-VHT160 MCS0	122	5610	20.00	20.00	23.00	
	138	5690	20.00	20.00	23.00	
	114	5570	16.00	16.00	19.00	
802.11ax-HE20 MCS0	100	5500	20.00	20.00	23.00	
	116	5580	20.00	20.00	23.00	
	124	5620	20.00	20.00	23.00	
	132	5660	20.00	20.00	23.00	
802.11ax-HE40 MCS0	144	5720	20.00	20.00	23.00	
	102	5510	15.50	15.50	18.50	
	110	5550	20.00	20.00	23.00	
	126	5630	20.00	20.00	23.00	
802.11ax-HE80 MCS0	134	5670	20.00	20.00	23.00	
	142	5710	20.00	20.00	23.00	
	106	5530	15.50	15.50	18.50	
	122	5610	20.00	20.00	23.00	
802.11ax-HE160 MCS0	138	5690	20.00	20.00	23.00	
	114	5570	16.00	16.00	19.00	
	100	5500	20.00	20.00	23.00	
802.11be-EHT20 MCS0	116	5580	20.00	20.00	23.00	
	124	5620	20.00	20.00	23.00	
	132	5660	20.00	20.00	23.00	
	144	5720	20.00	20.00	23.00	
802.11be-EHT40 MCS0	102	5510	15.50	15.50	18.50	
	110	5550	20.00	20.00	23.00	
	126	5630	20.00	20.00	23.00	
	134	5670	20.00	20.00	23.00	
802.11be-EHT80 MCS0	142	5710	20.00	20.00	23.00	
	106	5530	15.50	15.50	18.50	
	122	5610	20.00	20.00	23.00	
	138	5690	20.00	20.00	23.00	
802.11be-EHT160 MCS0	114	5570	16.00	16.00	19.00	



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT40 MCS0		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11ac-VHT40 MCS0		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT80 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00
802.11ax-HE20 MCS0		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
		151	5755	20.00	20.00	23.00
802.11ax-HE40 MCS0		159	5795	19.00	19.00	22.00
		155	5775	20.00	20.00	23.00
802.11ax-HE80 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
802.11be-EHT20 MCS0		165	5825	19.00	19.00	22.00
		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11be-EHT40 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00
802.11be-EHT80 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00

Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11n-HT20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11n-HT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
		169	5845	19.00	19.00	22.00
802.11ac-VHT20 MCS0		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
		167	5835	18.50	18.50	21.50
802.11ac-VHT40 MCS0		175	5875	18.50	18.50	21.50
		171	5855	19.50	19.50	22.50
802.11ac-VHT80 MCS0		163	5815	21.00	21.00	24.00
		169	5845	19.00	19.00	22.00
802.11ax-HE20 MCS0		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
		167	5835	18.50	18.50	21.50
802.11ax-HE40 MCS0		175	5875	18.50	18.50	21.50
		171	5855	19.50	19.50	22.50
802.11ax-HE80 MCS0		163	5815	21.00	21.00	24.00
		169	5845	19.00	19.00	22.00
802.11be-EHT20 MCS0		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
		167	5835	18.50	18.50	21.50
802.11be-EHT40 MCS0		175	5875	18.50	18.50	21.50
		171	5855	19.50	19.50	22.50
802.11be-EHT80 MCS0		163	5815	21.00	21.00	24.00
		169	5845	19.00	19.00	22.00
802.11be-EHT160 MCS0		163	5815	21.00	21.00	24.00
		169	5845	19.00	19.00	22.00



<Power index 1> Non-RSDB

<2.4GHz WLAN>

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	20.00
		6	2437	20.00
		11	2462	20.00
		12	2467	20.00
		13	2472	20.00

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	16.00
		6	2437	16.00
		11	2462	16.00
		12	2467	16.00
		13	2472	16.00

Burst Average Power (dBm)							
Transmit Antenna				MIMO			
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit	
	802.11g 6Mbps		1	2412	16.00	16.00	19.00
			6	2437	16.00	16.00	19.00
			11	2462	16.00	16.00	19.00
			12	2467	16.00	16.00	19.00
13			2472	12.50	12.50	15.50	
802.11n-HT20 MCS0		1	2412	16.00	16.00	19.00	
		6	2437	16.00	16.00	19.00	
		11	2462	16.00	16.00	19.00	
		12	2467	15.50	15.50	18.50	
802.11ac-VHT20 MCS0		13	2472	13.00	13.00	16.00	
		1	2412	16.00	16.00	19.00	
		6	2437	16.00	16.00	19.00	
		11	2462	16.00	16.00	19.00	
802.11ax-HE20 MCS0		12	2467	15.50	15.50	18.50	
		13	2472	13.00	13.00	16.00	
		1	2412	16.00	16.00	19.00	
		6	2437	16.00	16.00	19.00	
802.11be-EHT20 MCS0		11	2462	16.00	16.00	19.00	
		12	2467	15.50	15.50	18.50	
		13	2472	13.00	13.00	16.00	
		1	2412	16.00	16.00	19.00	
		6	2437	16.00	16.00	19.00	



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
	802.11n-HT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
	802.11n-HT40 MCS0	48	5240	19.00	19.00	22.00
		38	5190	16.00	16.00	19.00
		46	5230	19.00	19.00	22.00
	802.11ac-VHT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
	802.11ac-VHT40 MCS0	38	5190	16.00	16.00	19.00
	802.11ac-VHT80 MCS0	46	5230	19.00	19.00	22.00
		42	5210	16.50	16.50	19.50
	802.11ax-HE20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
48		5240	19.00	19.00	22.00	
802.11ax-HE40 MCS0	38	5190	16.00	16.00	19.00	
802.11ax-HE80 MCS0	46	5230	19.00	19.00	22.00	
	42	5210	16.50	16.50	19.50	
802.11be-EHT20 MCS0	36	5180	19.00	19.00	22.00	
	40	5200	19.00	19.00	22.00	
	44	5220	19.00	19.00	22.00	
	48	5240	19.00	19.00	22.00	
802.11be-EHT40 MCS0	38	5190	16.00	16.00	19.00	
	46	5230	19.00	19.00	22.00	
802.11be-EHT80 MCS0	42	5210	16.50	16.50	19.50	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	19.00	19.00	22.00
802.11n-HT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11n-HT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11ac-VHT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
802.11ac-VHT80 MCS0		58	5290	17.00	17.00	20.00
802.11ac-VHT160 MCS0		50	5250	15.00	15.00	18.00
802.11ax-HE20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11ax-HE40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ax-HE80 MCS0		58	5290	17.00	17.00	20.00
802.11ax-HE160 MCS0		50	5250	15.00	15.00	18.00
802.11be-EHT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11be-EHT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11be-EHT80 MCS0		58	5290	17.00	17.00	20.00
802.11be-EHT160 MCS0		50	5250	15.00	15.00	18.00



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500	18.00	18.00	21.00
		116	5580	18.00	18.00	21.00
		124	5620	18.00	18.00	21.00
		132	5660	18.00	18.00	21.00
		144	5720	18.00	18.00	21.00
	802.11n-HT20 MCS0	100	5500	18.00	18.00	21.00
		116	5580	18.00	18.00	21.00
		124	5620	18.00	18.00	21.00
		132	5660	18.00	18.00	21.00
		144	5720	17.50	17.50	20.50
	802.11n-HT40 MCS0	102	5510	15.50	15.50	18.50
		110	5550	18.00	18.00	21.00
		126	5630	18.00	18.00	21.00
		134	5670	18.00	18.00	21.00
		142	5710	18.00	18.00	21.00
	802.11ac-VHT20 MCS0	100	5500	18.00	18.00	21.00
		116	5580	18.00	18.00	21.00
		124	5620	18.00	18.00	21.00
		132	5660	18.00	18.00	21.00
		144	5720	17.50	17.50	20.50
802.11ac-VHT40 MCS0	102	5510	15.50	15.50	18.50	
	110	5550	18.00	18.00	21.00	
	126	5630	18.00	18.00	21.00	
	134	5670	18.00	18.00	21.00	
	142	5710	18.00	18.00	21.00	
802.11ac-VHT80 MCS0	106	5530	15.50	15.50	18.50	
	122	5610	18.00	18.00	21.00	
	138	5690	18.00	18.00	21.00	
802.11ac-VHT160 MCS0	114	5570	16.00	16.00	19.00	
802.11ax-HE20 MCS0	100	5500	18.00	18.00	21.00	
	116	5580	18.00	18.00	21.00	
	124	5620	18.00	18.00	21.00	
	132	5660	18.00	18.00	21.00	
	144	5720	17.50	17.50	20.50	
802.11ax-HE40 MCS0	102	5510	15.50	15.50	18.50	
	110	5550	18.00	18.00	21.00	
	126	5630	18.00	18.00	21.00	
	134	5670	18.00	18.00	21.00	
	142	5710	18.00	18.00	21.00	
802.11ax-HE80 MCS0	106	5530	15.50	15.50	18.50	
	122	5610	18.00	18.00	21.00	
	138	5690	18.00	18.00	21.00	
802.11ax-HE160 MCS0	114	5570	16.00	16.00	19.00	
802.11be-EHT20 MCS0	100	5500	18.00	18.00	21.00	
	116	5580	18.00	18.00	21.00	
	124	5620	18.00	18.00	21.00	
	132	5660	18.00	18.00	21.00	
	144	5720	17.50	17.50	20.50	
802.11be-EHT40 MCS0	102	5510	15.50	15.50	18.50	
	110	5550	18.00	18.00	21.00	
	126	5630	18.00	18.00	21.00	
	134	5670	18.00	18.00	21.00	
	142	5710	18.00	18.00	21.00	
802.11be-EHT80 MCS0	106	5530	15.50	15.50	18.50	
	122	5610	18.00	18.00	21.00	
	138	5690	18.00	18.00	21.00	
802.11be-EHT160 MCS0	114	5570	16.00	16.00	19.00	



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT40 MCS0		151	5755	19.00	19.00	22.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11ac-VHT40 MCS0		151	5755	19.00	19.00	22.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT80 MCS0		155	5775	19.00	19.00	22.00
		149	5745	19.00	19.00	22.00
802.11ax-HE20 MCS0		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
		151	5755	19.00	19.00	22.00
802.11ax-HE40 MCS0		159	5795	19.00	19.00	22.00
		155	5775	19.00	19.00	22.00
802.11ax-HE80 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
802.11be-EHT20 MCS0		165	5825	19.00	19.00	22.00
		151	5755	19.00	19.00	22.00
		159	5795	19.00	19.00	22.00
802.11be-EHT40 MCS0		155	5775	19.00	19.00	22.00
		149	5745	19.00	19.00	22.00
802.11be-EHT80 MCS0		157	5785	19.00	19.00	22.00
		155	5775	19.00	19.00	22.00

Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		169	5845	17.50	17.50	20.50
		173	5865	17.50	17.50	20.50
		177	5885	17.50	17.50	20.50
802.11n-HT20 MCS0		169	5845	16.50	16.50	19.50
		173	5865	17.50	17.50	20.50
		177	5885	17.00	17.00	20.00
802.11n-HT40 MCS0		167	5835	17.50	17.50	20.50
		175	5875	17.50	17.50	20.50
802.11ac-VHT20 MCS0		169	5845	16.50	16.50	19.50
		173	5865	17.50	17.50	20.50
		177	5885	17.00	17.00	20.00
802.11ac-VHT40 MCS0		167	5835	17.50	17.50	20.50
		175	5875	17.50	17.50	20.50
802.11ac-VHT80 MCS0		171	5855	17.50	17.50	20.50
		163	5815	17.50	17.50	20.50
802.11ax-HE20 MCS0		169	5845	16.50	16.50	19.50
		173	5865	17.50	17.50	20.50
		177	5885	17.00	17.00	20.00
802.11ax-HE40 MCS0		167	5835	17.50	17.50	20.50
		175	5875	17.50	17.50	20.50
802.11ax-HE80 MCS0		171	5855	17.50	17.50	20.50
		163	5815	17.50	17.50	20.50
802.11ax-HE160 MCS0		169	5845	16.50	16.50	19.50
		173	5865	17.50	17.50	20.50
		177	5885	17.00	17.00	20.00
802.11be-EHT20 MCS0		167	5835	17.50	17.50	20.50
		175	5875	17.50	17.50	20.50
		171	5855	17.50	17.50	20.50
802.11be-EHT40 MCS0		163	5815	17.50	17.50	20.50
		169	5845	16.50	16.50	19.50
802.11be-EHT80 MCS0		173	5865	17.50	17.50	20.50
		177	5885	17.00	17.00	20.00
		167	5835	17.50	17.50	20.50
802.11be-EHT160 MCS0		175	5875	17.50	17.50	20.50
		171	5855	17.50	17.50	20.50
802.11be-EHT160 MCS0		163	5815	17.50	17.50	20.50
		169	5845	16.50	16.50	19.50



<Power index 2> RSDB

<2.4Hz WLAN>

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	19.00
		6	2437	19.00
		11	2462	19.00
		12	2467	19.00
		13	2472	19.00

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	15.00
		6	2437	15.00
		11	2462	15.00
		12	2467	15.00
		13	2472	15.00

Burst Average Power (dBm)						
2.4GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11g 6Mbps	802.11g 6Mbps	1	2412	14.00	14.00	17.00
		6	2437	14.00	14.00	17.00
		11	2462	14.00	14.00	17.00
		12	2467	14.00	14.00	17.00
		13	2472	12.50	12.50	15.50
	802.11n-HT20 MCS0	1	2412	14.00	14.00	17.00
		6	2437	14.00	14.00	17.00
		11	2462	14.00	14.00	17.00
		12	2467	14.00	14.00	17.00
	802.11ac-VHT20 MCS0	13	2472	13.00	13.00	16.00
		1	2412	14.00	14.00	17.00
		6	2437	14.00	14.00	17.00
		11	2462	14.00	14.00	17.00
	802.11ax-HE20 MCS0	12	2467	14.00	14.00	17.00
		13	2472	13.00	13.00	16.00
		1	2412	14.00	14.00	17.00
6		2437	14.00	14.00	17.00	
802.11be-EHT20 MCS0	11	2462	14.00	14.00	17.00	
	12	2467	14.00	14.00	17.00	
	13	2472	13.00	13.00	16.00	
	1	2412	14.00	14.00	17.00	



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.00	18.00	21.00
		40	5200	18.00	18.00	21.00
		44	5220	18.00	18.00	21.00
		48	5240	18.00	18.00	21.00
	802.11n-HT20 MCS0	36	5180	18.00	18.00	21.00
		40	5200	18.00	18.00	21.00
		44	5220	18.00	18.00	21.00
	802.11n-HT40 MCS0	48	5240	18.00	18.00	21.00
		38	5190	16.00	16.00	19.00
		46	5230	18.00	18.00	21.00
	802.11ac-VHT20 MCS0	36	5180	18.00	18.00	21.00
		40	5200	18.00	18.00	21.00
		44	5220	18.00	18.00	21.00
		48	5240	18.00	18.00	21.00
	802.11ac-VHT40 MCS0	38	5190	16.00	16.00	19.00
		46	5230	18.00	18.00	21.00
	802.11ac-VHT80 MCS0	42	5210	16.50	16.50	19.50
	802.11ax-HE20 MCS0	36	5180	18.00	18.00	21.00
		40	5200	18.00	18.00	21.00
		44	5220	18.00	18.00	21.00
48		5240	18.00	18.00	21.00	
802.11ax-HE40 MCS0	38	5190	16.00	16.00	19.00	
	46	5230	18.00	18.00	21.00	
802.11ax-HE80 MCS0	42	5210	16.50	16.50	19.50	
802.11be-EHT20 MCS0	36	5180	18.00	18.00	21.00	
	40	5200	18.00	18.00	21.00	
	44	5220	18.00	18.00	21.00	
	48	5240	18.00	18.00	21.00	
802.11be-EHT40 MCS0	38	5190	16.00	16.00	19.00	
	46	5230	18.00	18.00	21.00	
802.11be-EHT80 MCS0	42	5210	16.50	16.50	19.50	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		52	5260	18.00	18.00	21.00
		56	5280	18.00	18.00	21.00
		60	5300	18.00	18.00	21.00
		64	5320	18.00	18.00	21.00
802.11n-HT20 MCS0		52	5260	18.00	18.00	21.00
		56	5280	18.00	18.00	21.00
		60	5300	18.00	18.00	21.00
		64	5320	18.00	18.00	21.00
802.11n-HT40 MCS0		54	5270	18.00	18.00	21.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT20 MCS0		52	5260	18.00	18.00	21.00
		56	5280	18.00	18.00	21.00
		60	5300	18.00	18.00	21.00
		64	5320	18.00	18.00	21.00
802.11ac-VHT40 MCS0		54	5270	18.00	18.00	21.00
		62	5310	14.50	14.50	17.50
		64	5320	18.00	18.00	21.00
802.11ac-VHT80 MCS0		58	5290	17.00	17.00	20.00
802.11ac-VHT160 MCS0		50	5250	15.00	15.00	18.00
802.11ax-HE20 MCS0		52	5260	18.00	18.00	21.00
		56	5280	18.00	18.00	21.00
		60	5300	18.00	18.00	21.00
		64	5320	18.00	18.00	21.00
802.11ax-HE40 MCS0		54	5270	18.00	18.00	21.00
		62	5310	14.50	14.50	17.50
802.11ax-HE80 MCS0		58	5290	17.00	17.00	20.00
802.11ax-HE160 MCS0		50	5250	15.00	15.00	18.00
802.11be-EHT20 MCS0		52	5260	18.00	18.00	21.00
		56	5280	18.00	18.00	21.00
		60	5300	18.00	18.00	21.00
		64	5320	18.00	18.00	21.00
802.11be-EHT40 MCS0		54	5270	18.00	18.00	21.00
		62	5310	14.50	14.50	17.50
802.11be-EHT80 MCS0		58	5290	17.00	17.00	20.00
802.11be-EHT160 MCS0		50	5250	15.00	15.00	18.00



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		100	5500	17.50	17.50	20.50
		116	5580	17.50	17.50	20.50
		124	5620	17.50	17.50	20.50
		132	5660	17.50	17.50	20.50
		144	5720	17.50	17.50	20.50
802.11n-HT20 MCS0		100	5500	17.50	17.50	20.50
		116	5580	17.50	17.50	20.50
		124	5620	17.50	17.50	20.50
		132	5660	17.50	17.50	20.50
802.11n-HT40 MCS0		144	5720	17.50	17.50	20.50
		102	5510	15.50	15.50	18.50
		110	5550	17.50	17.50	20.50
		126	5630	17.50	17.50	20.50
802.11ac-VHT20 MCS0		134	5670	17.50	17.50	20.50
		142	5710	17.50	17.50	20.50
		100	5500	17.50	17.50	20.50
		116	5580	17.50	17.50	20.50
802.11ac-VHT40 MCS0		124	5620	17.50	17.50	20.50
		132	5660	17.50	17.50	20.50
		144	5720	17.50	17.50	20.50
		102	5510	15.50	15.50	18.50
802.11ac-VHT80 MCS0		110	5550	17.50	17.50	20.50
		126	5630	17.50	17.50	20.50
		134	5670	17.50	17.50	20.50
		142	5710	17.50	17.50	20.50
802.11ac-VHT160 MCS0		106	5530	15.50	15.50	18.50
		122	5610	17.50	17.50	20.50
		138	5690	17.50	17.50	20.50
		114	5570	16.00	16.00	19.00
802.11ax-HE20 MCS0		100	5500	17.50	17.50	20.50
		116	5580	17.50	17.50	20.50
		124	5620	17.50	17.50	20.50
		132	5660	17.50	17.50	20.50
802.11ax-HE40 MCS0		144	5720	17.50	17.50	20.50
		102	5510	15.50	15.50	18.50
		110	5550	17.50	17.50	20.50
		126	5630	17.50	17.50	20.50
802.11ax-HE80 MCS0		134	5670	17.50	17.50	20.50
		142	5710	17.50	17.50	20.50
		106	5530	15.50	15.50	18.50
		122	5610	17.50	17.50	20.50
802.11ax-HE160 MCS0		138	5690	17.50	17.50	20.50
		114	5570	16.00	16.00	19.00
		100	5500	17.50	17.50	20.50
		116	5580	17.50	17.50	20.50
802.11be-EHT20 MCS0		124	5620	17.50	17.50	20.50
		132	5660	17.50	17.50	20.50
		144	5720	17.50	17.50	20.50
		102	5510	15.50	15.50	18.50
802.11be-EHT40 MCS0		110	5550	17.50	17.50	20.50
		126	5630	17.50	17.50	20.50
		134	5670	17.50	17.50	20.50
		142	5710	17.50	17.50	20.50
802.11be-EHT80 MCS0		106	5530	15.50	15.50	18.50
		122	5610	17.50	17.50	20.50
		138	5690	17.50	17.50	20.50
		114	5570	16.00	16.00	19.00
802.11be-EHT160 MCS0		100	5500	17.50	17.50	20.50
		114	5570	16.00	16.00	19.00



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		149	5745	17.50	17.50	20.50
		157	5785	17.50	17.50	20.50
		165	5825	17.50	17.50	20.50
802.11n-HT20 MCS0		149	5745	17.50	17.50	20.50
		157	5785	17.50	17.50	20.50
		165	5825	17.50	17.50	20.50
802.11n-HT40 MCS0		151	5755	17.50	17.50	20.50
		159	5795	17.50	17.50	20.50
802.11ac-VHT20 MCS0		149	5745	17.50	17.50	20.50
		157	5785	17.50	17.50	20.50
		165	5825	17.50	17.50	20.50
802.11ac-VHT40 MCS0		151	5755	17.50	17.50	20.50
		159	5795	17.50	17.50	20.50
802.11ac-VHT80 MCS0		155	5775	17.50	17.50	20.50
		149	5745	17.50	17.50	20.50
802.11ax-HE20 MCS0		157	5785	17.50	17.50	20.50
		165	5825	17.50	17.50	20.50
		151	5755	17.50	17.50	20.50
802.11ax-HE40 MCS0		159	5795	17.50	17.50	20.50
		155	5775	17.50	17.50	20.50
802.11ax-HE80 MCS0		149	5745	17.50	17.50	20.50
		157	5785	17.50	17.50	20.50
802.11be-EHT20 MCS0		165	5825	17.50	17.50	20.50
		151	5755	17.50	17.50	20.50
		159	5795	17.50	17.50	20.50
802.11be-EHT40 MCS0		155	5775	17.50	17.50	20.50
		149	5745	17.50	17.50	20.50
802.11be-EHT80 MCS0		157	5785	17.50	17.50	20.50
		165	5825	17.50	17.50	20.50

Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		169	5845	16.50	16.50	19.50
		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
802.11n-HT20 MCS0		169	5845	16.50	16.50	19.50
		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
802.11n-HT40 MCS0		167	5835	16.50	16.50	19.50
		175	5875	16.50	16.50	19.50
		169	5845	16.50	16.50	19.50
802.11ac-VHT20 MCS0		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
		167	5835	16.50	16.50	19.50
802.11ac-VHT40 MCS0		175	5875	16.50	16.50	19.50
		171	5855	16.50	16.50	19.50
802.11ac-VHT80 MCS0		163	5815	16.50	16.50	19.50
		169	5845	16.50	16.50	19.50
802.11ax-HE20 MCS0		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
		167	5835	16.50	16.50	19.50
802.11ax-HE40 MCS0		175	5875	16.50	16.50	19.50
		171	5855	16.50	16.50	19.50
802.11ax-HE80 MCS0		163	5815	16.50	16.50	19.50
		169	5845	16.50	16.50	19.50
802.11be-EHT20 MCS0		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50
		167	5835	16.50	16.50	19.50
802.11be-EHT40 MCS0		175	5875	16.50	16.50	19.50
		171	5855	16.50	16.50	19.50
802.11be-EHT80 MCS0		163	5815	16.50	16.50	19.50
		169	5845	16.50	16.50	19.50
802.11be-EHT160 MCS0		173	5865	16.50	16.50	19.50
		177	5885	16.50	16.50	19.50



<Power index 3> Non-RSDB

<2.4GHz WLAN>

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	18.00
		6	2437	18.00
		11	2462	18.00
		12	2467	18.00
		13	2472	18.00

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	12.00
		6	2437	12.00
		11	2462	12.00
		12	2467	12.00
		13	2472	12.00

Burst Average Power (dBm)						
2.4GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
2.4GHz WLAN	802.11g 6Mbps	1	2412	11.50	11.50	14.50
		6	2437	11.50	11.50	14.50
		11	2462	11.50	11.50	14.50
		12	2467	11.50	11.50	14.50
		13	2472	11.50	11.50	14.50
	802.11n-HT20 MCS0	1	2412	11.50	11.50	14.50
		6	2437	11.50	11.50	14.50
		11	2462	11.50	11.50	14.50
		12	2467	11.50	11.50	14.50
	802.11ac-VHT20 MCS0	1	2412	11.50	11.50	14.50
		6	2437	11.50	11.50	14.50
		11	2462	11.50	11.50	14.50
		12	2467	11.50	11.50	14.50
	802.11ax-HE20 MCS0	1	2412	11.50	11.50	14.50
		6	2437	11.50	11.50	14.50
		11	2462	11.50	11.50	14.50
		12	2467	11.50	11.50	14.50
	802.11be-EHT20 MCS0	1	2412	11.50	11.50	14.50
		6	2437	11.50	11.50	14.50
		11	2462	11.50	11.50	14.50
12		2467	11.50	11.50	14.50	
		13	2472	11.50	11.50	14.50



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
		48	5240	14.50	14.50	17.50
	802.11n-HT20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
	802.11n-HT40 MCS0	48	5240	14.50	14.50	17.50
		38	5190	14.50	14.50	17.50
		46	5230	14.50	14.50	17.50
	802.11ac-VHT20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
		48	5240	14.50	14.50	17.50
	802.11ac-VHT40 MCS0	38	5190	14.50	14.50	17.50
		46	5230	14.50	14.50	17.50
	802.11ac-VHT80 MCS0	42	5210	14.50	14.50	17.50
	802.11ax-HE20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
48		5240	14.50	14.50	17.50	
802.11ax-HE40 MCS0	38	5190	14.50	14.50	17.50	
	46	5230	14.50	14.50	17.50	
802.11ax-HE80 MCS0	42	5210	14.50	14.50	17.50	
802.11be-EHT20 MCS0	36	5180	14.50	14.50	17.50	
	40	5200	14.50	14.50	17.50	
	44	5220	14.50	14.50	17.50	
	48	5240	14.50	14.50	17.50	
802.11be-EHT40 MCS0	38	5190	14.50	14.50	17.50	
	46	5230	14.50	14.50	17.50	
802.11be-EHT80 MCS0	42	5210	14.50	14.50	17.50	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
802.11n-HT20 MCS0		52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
802.11n-HT40 MCS0		54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
802.11ac-VHT20 MCS0		52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
802.11ac-VHT40 MCS0		54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
802.11ac-VHT80 MCS0		58	5290	14.50	14.50	17.50
802.11ac-VHT160 MCS0		50	5250	14.50	14.50	17.50
802.11ax-HE20 MCS0		52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
802.11ax-HE40 MCS0		54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
802.11ax-HE80 MCS0		58	5290	14.50	14.50	17.50
802.11ax-HE160 MCS0		50	5250	14.50	14.50	17.50
802.11be-EHT20 MCS0		52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
802.11be-EHT40 MCS0		54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
802.11be-EHT80 MCS0		58	5290	14.50	14.50	17.50
802.11be-EHT160 MCS0		50	5250	14.50	14.50	17.50



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.50	13.50	16.50
		116	5580	13.50	13.50	16.50
		124	5620	13.50	13.50	16.50
		132	5660	13.50	13.50	16.50
		144	5720	13.50	13.50	16.50
	802.11n-HT20 MCS0	100	5500	13.50	13.50	16.50
		116	5580	13.50	13.50	16.50
		124	5620	13.50	13.50	16.50
		132	5660	13.50	13.50	16.50
	802.11n-HT40 MCS0	144	5720	13.50	13.50	16.50
		102	5510	13.50	13.50	16.50
		110	5550	13.50	13.50	16.50
		126	5630	13.50	13.50	16.50
	802.11ac-VHT20 MCS0	134	5670	13.50	13.50	16.50
		142	5710	13.50	13.50	16.50
		100	5500	13.50	13.50	16.50
		116	5580	13.50	13.50	16.50
	802.11ac-VHT40 MCS0	124	5620	13.50	13.50	16.50
		132	5660	13.50	13.50	16.50
		144	5720	13.50	13.50	16.50
102		5510	13.50	13.50	16.50	
802.11ac-VHT80 MCS0	110	5550	13.50	13.50	16.50	
	126	5630	13.50	13.50	16.50	
	134	5670	13.50	13.50	16.50	
	142	5710	13.50	13.50	16.50	
802.11ac-VHT160 MCS0	106	5530	13.50	13.50	16.50	
	122	5610	13.50	13.50	16.50	
	138	5690	13.50	13.50	16.50	
	114	5570	13.50	13.50	16.50	
802.11ax-HE40 MCS0	100	5500	13.50	13.50	16.50	
	116	5580	13.50	13.50	16.50	
	124	5620	13.50	13.50	16.50	
	132	5660	13.50	13.50	16.50	
802.11ax-HE80 MCS0	144	5720	13.50	13.50	16.50	
	102	5510	13.50	13.50	16.50	
	110	5550	13.50	13.50	16.50	
	126	5630	13.50	13.50	16.50	
802.11ax-HE160 MCS0	134	5670	13.50	13.50	16.50	
	142	5710	13.50	13.50	16.50	
	106	5530	13.50	13.50	16.50	
	122	5610	13.50	13.50	16.50	
802.11be-EHT20 MCS0	138	5690	13.50	13.50	16.50	
	114	5570	13.50	13.50	16.50	
	100	5500	13.50	13.50	16.50	
	116	5580	13.50	13.50	16.50	
802.11be-EHT40 MCS0	124	5620	13.50	13.50	16.50	
	132	5660	13.50	13.50	16.50	
	144	5720	13.50	13.50	16.50	
	102	5510	13.50	13.50	16.50	
802.11be-EHT80 MCS0	110	5550	13.50	13.50	16.50	
	126	5630	13.50	13.50	16.50	
	134	5670	13.50	13.50	16.50	
	142	5710	13.50	13.50	16.50	
802.11be-EHT160 MCS0	106	5530	13.50	13.50	16.50	
	122	5610	13.50	13.50	16.50	
	138	5690	13.50	13.50	16.50	
		114	5570	13.50	13.50	16.50



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		149	5745	14.00	14.00	17.00
		157	5785	14.00	14.00	17.00
		165	5825	14.00	14.00	17.00
802.11n-HT20 MCS0		149	5745	14.00	14.00	17.00
		157	5785	14.00	14.00	17.00
		165	5825	14.00	14.00	17.00
802.11n-HT40 MCS0		151	5755	14.00	14.00	17.00
		159	5795	14.00	14.00	17.00
802.11ac-VHT20 MCS0		149	5745	14.00	14.00	17.00
		157	5785	14.00	14.00	17.00
		165	5825	14.00	14.00	17.00
802.11ac-VHT40 MCS0		151	5755	14.00	14.00	17.00
		159	5795	14.00	14.00	17.00
802.11ac-VHT80 MCS0		155	5775	14.00	14.00	17.00
802.11ax-HE20 MCS0		149	5745	14.00	14.00	17.00
		157	5785	14.00	14.00	17.00
		165	5825	14.00	14.00	17.00
802.11ax-HE40 MCS0		151	5755	14.00	14.00	17.00
		159	5795	14.00	14.00	17.00
802.11ax-HE80 MCS0		155	5775	14.00	14.00	17.00
802.11be-EHT20 MCS0		149	5745	14.00	14.00	17.00
		157	5785	14.00	14.00	17.00
		165	5825	14.00	14.00	17.00
802.11be-EHT40 MCS0		151	5755	14.00	14.00	17.00
		159	5795	14.00	14.00	17.00
802.11be-EHT80 MCS0		155	5775	14.00	14.00	17.00

Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		169	5845	13.00	13.00	16.00
		173	5865	13.00	13.00	16.00
		177	5885	13.00	13.00	16.00
802.11n-HT20 MCS0		169	5845	13.00	13.00	16.00
		173	5865	13.00	13.00	16.00
		177	5885	13.00	13.00	16.00
802.11n-HT40 MCS0		167	5835	13.00	13.00	16.00
		175	5875	13.00	13.00	16.00
802.11ac-VHT20 MCS0		169	5845	13.00	13.00	16.00
		173	5865	13.00	13.00	16.00
		177	5885	13.00	13.00	16.00
802.11ac-VHT40 MCS0		167	5835	13.00	13.00	16.00
		175	5875	13.00	13.00	16.00
802.11ac-VHT80 MCS0		171	5855	13.00	13.00	16.00
802.11ac-VHT160 MCS0		163	5815	13.00	13.00	16.00
802.11ax-HE20 MCS0		169	5845	13.00	13.00	16.00
		173	5865	13.00	13.00	16.00
		177	5885	13.00	13.00	16.00
802.11ax-HE40 MCS0		167	5835	13.00	13.00	16.00
		175	5875	13.00	13.00	16.00
802.11ax-HE80 MCS0		171	5855	13.00	13.00	16.00
802.11ax-HE160 MCS0		163	5815	13.00	13.00	16.00
802.11be-EHT20 MCS0		169	5845	13.00	13.00	16.00
		173	5865	13.00	13.00	16.00
		177	5885	13.00	13.00	16.00
802.11be-EHT40 MCS0		167	5835	13.00	13.00	16.00
		175	5875	13.00	13.00	16.00
802.11be-EHT80 MCS0		171	5855	13.00	13.00	16.00
802.11be-EHT160 MCS0		163	5815	13.00	13.00	16.00



<Power index 4> RSDB

<2.4GHz WLAN>

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	15.00
		6	2437	15.00
		11	2462	15.00
		12	2467	15.00
		13	2472	15.00

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	12.00
		6	2437	12.00
		11	2462	12.00
		12	2467	12.00
		13	2472	12.00

Burst Average Power (dBm)						
2.4GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
2.4GHz WLAN	802.11g 6Mbps	1	2412	11.50	11.50	14.50
		6	2437	11.50	11.50	14.50
		11	2462	11.50	11.50	14.50
		12	2467	11.50	11.50	14.50
		13	2472	11.50	11.50	14.50
	802.11n-HT20 MCS0	1	2412	11.50	11.50	14.50
		6	2437	11.50	11.50	14.50
		11	2462	11.50	11.50	14.50
		12	2467	11.50	11.50	14.50
	802.11ac-VHT20 MCS0	1	2412	11.50	11.50	14.50
		6	2437	11.50	11.50	14.50
		11	2462	11.50	11.50	14.50
		12	2467	11.50	11.50	14.50
	802.11ax-HE20 MCS0	1	2412	11.50	11.50	14.50
		6	2437	11.50	11.50	14.50
		11	2462	11.50	11.50	14.50
		12	2467	11.50	11.50	14.50
	802.11be-EHT20 MCS0	1	2412	11.50	11.50	14.50
		6	2437	11.50	11.50	14.50
		11	2462	11.50	11.50	14.50
12		2467	11.50	11.50	14.50	
		13	2472	11.50	11.50	14.50



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
		48	5240	14.50	14.50	17.50
	802.11n-HT20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
	802.11n-HT40 MCS0	48	5240	14.50	14.50	17.50
		38	5190	14.50	14.50	17.50
	802.11ac-VHT20 MCS0	46	5230	14.50	14.50	17.50
		36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
	802.11ac-VHT40 MCS0	48	5240	14.50	14.50	17.50
		38	5190	14.50	14.50	17.50
	802.11ac-VHT80 MCS0	46	5230	14.50	14.50	17.50
		42	5210	14.50	14.50	17.50
	802.11ax-HE20 MCS0	36	5180	14.50	14.50	17.50
		40	5200	14.50	14.50	17.50
		44	5220	14.50	14.50	17.50
48		5240	14.50	14.50	17.50	
802.11ax-HE40 MCS0	38	5190	14.50	14.50	17.50	
	46	5230	14.50	14.50	17.50	
802.11ax-HE80 MCS0	42	5210	14.50	14.50	17.50	
	36	5180	14.50	14.50	17.50	
802.11be-EHT20 MCS0	40	5200	14.50	14.50	17.50	
	44	5220	14.50	14.50	17.50	
	48	5240	14.50	14.50	17.50	
	38	5190	14.50	14.50	17.50	
802.11be-EHT40 MCS0	46	5230	14.50	14.50	17.50	
	42	5210	14.50	14.50	17.50	
802.11be-EHT80 MCS0	36	5180	14.50	14.50	17.50	
	40	5200	14.50	14.50	17.50	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
802.11n-HT20 MCS0		52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
802.11n-HT40 MCS0		54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
802.11ac-VHT20 MCS0		52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
802.11ac-VHT40 MCS0		54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
802.11ac-VHT80 MCS0		58	5290	14.50	14.50	17.50
802.11ac-VHT160 MCS0		50	5250	14.50	14.50	17.50
802.11ax-HE20 MCS0		52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
802.11ax-HE40 MCS0		54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
802.11ax-HE80 MCS0		58	5290	14.50	14.50	17.50
802.11ax-HE160 MCS0		50	5250	14.50	14.50	17.50
802.11be-EHT20 MCS0		52	5260	14.50	14.50	17.50
		56	5280	14.50	14.50	17.50
		60	5300	14.50	14.50	17.50
		64	5320	14.50	14.50	17.50
802.11be-EHT40 MCS0		54	5270	14.50	14.50	17.50
		62	5310	14.50	14.50	17.50
802.11be-EHT80 MCS0		58	5290	14.50	14.50	17.50
802.11be-EHT160 MCS0		50	5250	14.50	14.50	17.50



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		100	5500	13.50	13.50	16.50
		116	5580	13.50	13.50	16.50
		124	5620	13.50	13.50	16.50
		132	5660	13.50	13.50	16.50
		144	5720	13.50	13.50	16.50
802.11n-HT20 MCS0		100	5500	13.50	13.50	16.50
		116	5580	13.50	13.50	16.50
		124	5620	13.50	13.50	16.50
		132	5660	13.50	13.50	16.50
802.11n-HT40 MCS0		144	5720	13.50	13.50	16.50
		102	5510	13.50	13.50	16.50
		110	5550	13.50	13.50	16.50
		126	5630	13.50	13.50	16.50
802.11ac-VHT20 MCS0		134	5670	13.50	13.50	16.50
		142	5710	13.50	13.50	16.50
		100	5500	13.50	13.50	16.50
		116	5580	13.50	13.50	16.50
802.11ac-VHT40 MCS0		124	5620	13.50	13.50	16.50
		132	5660	13.50	13.50	16.50
		144	5720	13.50	13.50	16.50
		102	5510	13.50	13.50	16.50
802.11ac-VHT80 MCS0		110	5550	13.50	13.50	16.50
		126	5630	13.50	13.50	16.50
		134	5670	13.50	13.50	16.50
		142	5710	13.50	13.50	16.50
802.11ac-VHT160 MCS0		106	5530	13.50	13.50	16.50
		122	5610	13.50	13.50	16.50
		138	5690	13.50	13.50	16.50
		114	5570	13.50	13.50	16.50
802.11ax-HE20 MCS0		100	5500	13.50	13.50	16.50
		116	5580	13.50	13.50	16.50
		124	5620	13.50	13.50	16.50
		132	5660	13.50	13.50	16.50
802.11ax-HE40 MCS0		144	5720	13.50	13.50	16.50
		102	5510	13.50	13.50	16.50
		110	5550	13.50	13.50	16.50
		126	5630	13.50	13.50	16.50
802.11ax-HE80 MCS0		134	5670	13.50	13.50	16.50
		142	5710	13.50	13.50	16.50
		106	5530	13.50	13.50	16.50
		122	5610	13.50	13.50	16.50
802.11ax-HE160 MCS0		138	5690	13.50	13.50	16.50
		114	5570	13.50	13.50	16.50
		100	5500	13.50	13.50	16.50
		116	5580	13.50	13.50	16.50
802.11be-EHT20 MCS0		124	5620	13.50	13.50	16.50
		132	5660	13.50	13.50	16.50
		144	5720	13.50	13.50	16.50
		102	5510	13.50	13.50	16.50
802.11be-EHT40 MCS0		110	5550	13.50	13.50	16.50
		126	5630	13.50	13.50	16.50
		134	5670	13.50	13.50	16.50
		142	5710	13.50	13.50	16.50
802.11be-EHT80 MCS0		106	5530	13.50	13.50	16.50
		122	5610	13.50	13.50	16.50
		138	5690	13.50	13.50	16.50
802.11be-EHT160 MCS0		114	5570	13.50	13.50	16.50



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		149	5745	14.00	14.00	17.00
		157	5785	14.00	14.00	17.00
		165	5825	14.00	14.00	17.00
802.11n-HT20 MCS0		149	5745	14.00	14.00	17.00
		157	5785	14.00	14.00	17.00
		165	5825	14.00	14.00	17.00
802.11n-HT40 MCS0		151	5755	14.00	14.00	17.00
		159	5795	14.00	14.00	17.00
802.11ac-VHT20 MCS0		149	5745	14.00	14.00	17.00
		157	5785	14.00	14.00	17.00
		165	5825	14.00	14.00	17.00
802.11ac-VHT40 MCS0		151	5755	14.00	14.00	17.00
		159	5795	14.00	14.00	17.00
802.11ac-VHT80 MCS0		155	5775	14.00	14.00	17.00
		149	5745	14.00	14.00	17.00
802.11ax-HE20 MCS0		157	5785	14.00	14.00	17.00
		165	5825	14.00	14.00	17.00
		151	5755	14.00	14.00	17.00
802.11ax-HE40 MCS0		159	5795	14.00	14.00	17.00
		155	5775	14.00	14.00	17.00
802.11ax-HE80 MCS0		149	5745	14.00	14.00	17.00
		157	5785	14.00	14.00	17.00
802.11be-EHT20 MCS0		165	5825	14.00	14.00	17.00
		151	5755	14.00	14.00	17.00
		159	5795	14.00	14.00	17.00
802.11be-EHT40 MCS0		155	5775	14.00	14.00	17.00
		149	5745	14.00	14.00	17.00
802.11be-EHT80 MCS0		155	5775	14.00	14.00	17.00
		149	5745	14.00	14.00	17.00

Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		169	5845	13.00	13.00	16.00
		173	5865	13.00	13.00	16.00
		177	5885	13.00	13.00	16.00
802.11n-HT20 MCS0		169	5845	13.00	13.00	16.00
		173	5865	13.00	13.00	16.00
		177	5885	13.00	13.00	16.00
802.11n-HT40 MCS0		167	5835	13.00	13.00	16.00
		175	5875	13.00	13.00	16.00
802.11ac-VHT20 MCS0		169	5845	13.00	13.00	16.00
		173	5865	13.00	13.00	16.00
		177	5885	13.00	13.00	16.00
802.11ac-VHT40 MCS0		167	5835	13.00	13.00	16.00
		175	5875	13.00	13.00	16.00
802.11ac-VHT80 MCS0		171	5855	13.00	13.00	16.00
		163	5815	13.00	13.00	16.00
802.11ax-HE20 MCS0		169	5845	13.00	13.00	16.00
		173	5865	13.00	13.00	16.00
		177	5885	13.00	13.00	16.00
802.11ax-HE40 MCS0		167	5835	13.00	13.00	16.00
		175	5875	13.00	13.00	16.00
802.11ax-HE80 MCS0		171	5855	13.00	13.00	16.00
		163	5815	13.00	13.00	16.00
802.11ax-HE160 MCS0		169	5845	13.00	13.00	16.00
		173	5865	13.00	13.00	16.00
		177	5885	13.00	13.00	16.00
802.11be-EHT20 MCS0		167	5835	13.00	13.00	16.00
		175	5875	13.00	13.00	16.00
802.11be-EHT40 MCS0		171	5855	13.00	13.00	16.00
		163	5815	13.00	13.00	16.00
802.11be-EHT80 MCS0		163	5815	13.00	13.00	16.00
		169	5845	13.00	13.00	16.00



<Power index 5> Non-RSDB

<2.4GHz WLAN>

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	22.50
		6	2437	22.50
		11	2462	22.50
		12	2467	22.50
		13	2472	21.50

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	22.50
		6	2437	22.50
		11	2462	22.50
		12	2467	22.50
		13	2472	20.00

Burst Average Power (dBm)						
2.4GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
2.4GHz WLAN	802.11g 6Mbps	1	2412	22.00	22.00	25.00
		6	2437	22.00	22.00	25.00
		11	2462	19.00	19.00	22.00
		12	2467	16.00	16.00	19.00
		13	2472	12.50	12.50	15.50
	802.11n-HT20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
		12	2467	15.50	15.50	18.50
	802.11ac-VHT20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
		12	2467	15.50	15.50	18.50
	802.11ax-HE20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
		12	2467	15.50	15.50	18.50
	802.11be-EHT20 MCS0	1	2412	21.00	21.00	24.00
		6	2437	21.00	21.00	24.00
		11	2462	18.50	18.50	21.50
12		2467	15.50	15.50	18.50	
13		2472	13.00	13.00	16.00	



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
	802.11a 6Mbps	36	5180	20.00	20.00	23.00
		40	5200	20.00	20.00	23.00
		44	5220	20.00	20.00	23.00
		48	5240	20.00	20.00	23.00
	802.11n-HT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	20.00	20.00	23.00
		44	5220	20.00	20.00	23.00
	802.11n-HT40 MCS0	48	5240	20.00	20.00	23.00
		38	5190	16.00	16.00	19.00
	802.11ac-VHT20 MCS0	46	5230	20.00	20.00	23.00
		36	5180	19.00	19.00	22.00
		40	5200	20.00	20.00	23.00
		44	5220	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	48	5240	20.00	20.00	23.00
		38	5190	16.00	16.00	19.00
	802.11ac-VHT80 MCS0	46	5230	20.00	20.00	23.00
		42	5210	16.50	16.50	19.50
	802.11ax-HE20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	20.00	20.00	23.00
		44	5220	20.00	20.00	23.00
48		5240	20.00	20.00	23.00	
802.11ax-HE40 MCS0	38	5190	16.00	16.00	19.00	
	46	5230	20.00	20.00	23.00	
802.11ax-HE80 MCS0	42	5210	16.50	16.50	19.50	
	36	5180	19.00	19.00	22.00	
802.11be-EHT20 MCS0	40	5200	20.00	20.00	23.00	
	44	5220	20.00	20.00	23.00	
	48	5240	20.00	20.00	23.00	
	38	5190	16.00	16.00	19.00	
802.11be-EHT40 MCS0	46	5230	20.00	20.00	23.00	
	42	5210	16.50	16.50	19.50	
802.11be-EHT80 MCS0	36	5180	19.00	19.00	22.00	
	40	5200	20.00	20.00	23.00	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		52	5260	20.00	20.00	23.00
		56	5280	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	20.00	20.00	23.00
802.11n-HT20 MCS0		52	5260	20.00	20.00	23.00
		56	5280	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	18.50	18.50	21.50
802.11n-HT40 MCS0		54	5270	20.00	20.00	23.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT20 MCS0		52	5260	20.00	20.00	23.00
		56	5280	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
802.11ac-VHT40 MCS0		64	5320	18.50	18.50	21.50
		54	5270	20.00	20.00	23.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT80 MCS0		58	5290	17.00	17.00	20.00
		50	5250	15.00	15.00	18.00
802.11ac-VHT160 MCS0		52	5260	20.00	20.00	23.00
		56	5280	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	18.50	18.50	21.50
802.11ax-HE20 MCS0		54	5270	20.00	20.00	23.00
		62	5310	14.50	14.50	17.50
802.11ax-HE40 MCS0		58	5290	17.00	17.00	20.00
		50	5250	15.00	15.00	18.00
802.11ax-HE80 MCS0		52	5260	20.00	20.00	23.00
		56	5280	20.00	20.00	23.00
		60	5300	20.00	20.00	23.00
		64	5320	18.50	18.50	21.50
802.11ax-HE160 MCS0		54	5270	20.00	20.00	23.00
		62	5310	14.50	14.50	17.50
802.11be-EHT20 MCS0		58	5290	17.00	17.00	20.00
		50	5250	15.00	15.00	18.00
		52	5260	20.00	20.00	23.00
		56	5280	20.00	20.00	23.00
802.11be-EHT40 MCS0		60	5300	20.00	20.00	23.00
		64	5320	18.50	18.50	21.50
		54	5270	20.00	20.00	23.00
802.11be-EHT80 MCS0		62	5310	14.50	14.50	17.50
		58	5290	17.00	17.00	20.00
802.11be-EHT160 MCS0		50	5250	15.00	15.00	18.00
		52	5260	20.00	20.00	23.00



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
		124	5620	19.50	19.50	22.50
		132	5660	19.50	19.50	22.50
		144	5720	19.50	19.50	22.50
802.11n-HT20 MCS0		100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
		132	5660	20.00	20.00	23.00
802.11n-HT40 MCS0		102	5510	15.50	15.50	18.50
		110	5550	20.00	20.00	23.00
		126	5630	20.00	20.00	23.00
		134	5670	20.00	20.00	23.00
802.11ac-VHT20 MCS0		142	5710	20.00	20.00	23.00
		100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
802.11ac-VHT40 MCS0		132	5660	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
		102	5510	15.50	15.50	18.50
		110	5550	20.00	20.00	23.00
802.11ac-VHT80 MCS0		126	5630	20.00	20.00	23.00
		134	5670	20.00	20.00	23.00
		142	5710	20.00	20.00	23.00
		106	5530	15.50	15.50	18.50
802.11ac-VHT160 MCS0		122	5610	20.00	20.00	23.00
		138	5690	20.00	20.00	23.00
		114	5570	16.00	16.00	19.00
802.11ax-HE20 MCS0		100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
		132	5660	20.00	20.00	23.00
802.11ax-HE40 MCS0		144	5720	20.00	20.00	23.00
		102	5510	15.50	15.50	18.50
		110	5550	20.00	20.00	23.00
		126	5630	20.00	20.00	23.00
802.11ax-HE80 MCS0		134	5670	20.00	20.00	23.00
		142	5710	20.00	20.00	23.00
		106	5530	15.50	15.50	18.50
		122	5610	20.00	20.00	23.00
802.11ax-HE160 MCS0		138	5690	20.00	20.00	23.00
		114	5570	16.00	16.00	19.00
		100	5500	20.00	20.00	23.00
802.11be-EHT20 MCS0		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
		132	5660	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
802.11be-EHT40 MCS0		102	5510	15.50	15.50	18.50
		110	5550	20.00	20.00	23.00
		126	5630	20.00	20.00	23.00
		134	5670	20.00	20.00	23.00
802.11be-EHT80 MCS0		142	5710	20.00	20.00	23.00
		106	5530	15.50	15.50	18.50
		122	5610	20.00	20.00	23.00
802.11be-EHT160 MCS0		138	5690	20.00	20.00	23.00
		114	5570	16.00	16.00	19.00



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT40 MCS0		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11ac-VHT40 MCS0		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT80 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00
802.11ax-HE20 MCS0		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
		151	5755	20.00	20.00	23.00
802.11ax-HE40 MCS0		159	5795	19.00	19.00	22.00
		155	5775	20.00	20.00	23.00
802.11ax-HE80 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
802.11be-EHT20 MCS0		165	5825	19.00	19.00	22.00
		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11be-EHT40 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00
802.11be-EHT80 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00

Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11n-HT20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11n-HT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ac-VHT20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11ac-VHT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ac-VHT80 MCS0		171	5855	19.50	19.50	22.50
		163	5815	19.50	19.50	22.50
802.11ax-HE20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11ax-HE40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ax-HE80 MCS0		171	5855	19.50	19.50	22.50
		163	5815	19.50	19.50	22.50
802.11ax-HE160 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11be-EHT20 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11be-EHT40 MCS0		171	5855	19.50	19.50	22.50
		163	5815	19.50	19.50	22.50
802.11be-EHT80 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
802.11be-EHT160 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00



<Power index 6> RSDB

<2.4GHz WLAN>

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	22.50
		6	2437	22.50
		11	2462	22.50
		12	2467	22.50
		13	2472	21.50

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	20.00
		6	2437	20.00
		11	2462	20.00
		12	2467	20.00
		13	2472	20.00

Burst Average Power (dBm)						
2.4GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11g 6Mbps	802.11g 6Mbps	1	2412	19.00	19.00	22.00
		6	2437	19.00	19.00	22.00
		11	2462	19.00	19.00	22.00
		12	2467	16.00	16.00	19.00
		13	2472	13.00	13.00	16.00
	802.11n-HT20 MCS0	1	2412	19.00	19.00	22.00
		6	2437	19.00	19.00	22.00
		11	2462	19.00	19.00	22.00
		12	2467	16.00	16.00	19.00
		13	2472	13.00	13.00	16.00
	802.11ac-VHT20 MCS0	1	2412	19.00	19.00	22.00
		6	2437	19.00	19.00	22.00
		11	2462	19.00	19.00	22.00
		12	2467	16.00	16.00	19.00
		13	2472	13.00	13.00	16.00
	802.11ax-HE20 MCS0	1	2412	19.00	19.00	22.00
		6	2437	19.00	19.00	22.00
		11	2462	19.00	19.00	22.00
		12	2467	16.00	16.00	19.00
		13	2472	13.00	13.00	16.00
802.11be-EHT20 MCS0	1	2412	19.00	19.00	22.00	
	6	2437	19.00	19.00	22.00	
	11	2462	19.00	19.00	22.00	
	12	2467	16.00	16.00	19.00	
	13	2472	13.00	13.00	16.00	



<5GHz WLAN>

Burst Average Power (dBm)							
5.2GHz WLAN	Transmit Antenna	Mode	Channel	Frequency (MHz)	MIMO		
					Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
	802.11a 6Mbps		36	5180	19.00	19.00	22.00
			40	5200	19.00	19.00	22.00
			44	5220	19.00	19.00	22.00
			48	5240	19.00	19.00	22.00
	802.11n-HT20 MCS0		36	5180	19.00	19.00	22.00
			40	5200	19.00	19.00	22.00
			44	5220	19.00	19.00	22.00
	802.11n-HT40 MCS0		48	5240	19.00	19.00	22.00
			38	5190	16.00	16.00	19.00
			46	5230	19.00	19.00	22.00
	802.11ac-VHT20 MCS0		36	5180	19.00	19.00	22.00
			40	5200	19.00	19.00	22.00
			44	5220	19.00	19.00	22.00
			48	5240	19.00	19.00	22.00
	802.11ac-VHT40 MCS0		38	5190	16.00	16.00	19.00
			46	5230	19.00	19.00	22.00
	802.11ac-VHT80 MCS0		42	5210	16.50	16.50	19.50
			36	5180	19.00	19.00	22.00
	802.11ax-HE20 MCS0		40	5200	19.00	19.00	22.00
			44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00	
		38	5190	16.00	16.00	19.00	
802.11ax-HE40 MCS0		46	5230	19.00	19.00	22.00	
		42	5210	16.50	16.50	19.50	
802.11ax-HE80 MCS0		36	5180	19.00	19.00	22.00	
		40	5200	19.00	19.00	22.00	
		44	5220	19.00	19.00	22.00	
		48	5240	19.00	19.00	22.00	
802.11be-EHT20 MCS0		38	5190	16.00	16.00	19.00	
		46	5230	19.00	19.00	22.00	
		42	5210	16.50	16.50	19.50	
802.11be-EHT40 MCS0		36	5180	19.00	19.00	22.00	
		40	5200	19.00	19.00	22.00	
802.11be-EHT80 MCS0		44	5220	19.00	19.00	22.00	
		48	5240	19.00	19.00	22.00	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	19.00	19.00	22.00
802.11n-HT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11n-HT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
802.11ac-VHT40 MCS0		64	5320	18.50	18.50	21.50
		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT80 MCS0		58	5290	17.00	17.00	20.00
		50	5250	15.00	15.00	18.00
802.11ac-VHT160 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11ax-HE20 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ax-HE40 MCS0		58	5290	17.00	17.00	20.00
		50	5250	15.00	15.00	18.00
802.11ax-HE80 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11ax-HE160 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11be-EHT20 MCS0		58	5290	17.00	17.00	20.00
		50	5250	15.00	15.00	18.00
		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
802.11be-EHT40 MCS0		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
		54	5270	19.00	19.00	22.00
802.11be-EHT80 MCS0		62	5310	14.50	14.50	17.50
		58	5290	17.00	17.00	20.00
802.11be-EHT160 MCS0		50	5250	15.00	15.00	18.00
		52	5260	19.00	19.00	22.00



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
		124	5620	19.50	19.50	22.50
		132	5660	19.50	19.50	22.50
		144	5720	19.50	19.50	22.50
	802.11n-HT20 MCS0	100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
		132	5660	20.00	20.00	23.00
	802.11n-HT40 MCS0	102	5510	15.50	15.50	18.50
		110	5550	20.00	20.00	23.00
		126	5630	20.00	20.00	23.00
		134	5670	20.00	20.00	23.00
	802.11ac-VHT20 MCS0	142	5710	20.00	20.00	23.00
		100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	132	5660	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
		102	5510	15.50	15.50	18.50
110		5550	20.00	20.00	23.00	
802.11ac-VHT80 MCS0	126	5630	20.00	20.00	23.00	
	134	5670	20.00	20.00	23.00	
	142	5710	20.00	20.00	23.00	
	106	5530	15.50	15.50	18.50	
802.11ac-VHT160 MCS0	122	5610	20.00	20.00	23.00	
	138	5690	20.00	20.00	23.00	
	114	5570	16.00	16.00	19.00	
802.11ax-HE20 MCS0	100	5500	20.00	20.00	23.00	
	116	5580	20.00	20.00	23.00	
	124	5620	20.00	20.00	23.00	
	132	5660	20.00	20.00	23.00	
802.11ax-HE40 MCS0	144	5720	20.00	20.00	23.00	
	102	5510	15.50	15.50	18.50	
	110	5550	20.00	20.00	23.00	
	126	5630	20.00	20.00	23.00	
802.11ax-HE80 MCS0	134	5670	20.00	20.00	23.00	
	142	5710	20.00	20.00	23.00	
	106	5530	15.50	15.50	18.50	
	122	5610	20.00	20.00	23.00	
802.11ax-HE160 MCS0	138	5690	20.00	20.00	23.00	
	114	5570	16.00	16.00	19.00	
	100	5500	20.00	20.00	23.00	
802.11be-EHT20 MCS0	116	5580	20.00	20.00	23.00	
	124	5620	20.00	20.00	23.00	
	132	5660	20.00	20.00	23.00	
	144	5720	20.00	20.00	23.00	
802.11be-EHT40 MCS0	102	5510	15.50	15.50	18.50	
	110	5550	20.00	20.00	23.00	
	126	5630	20.00	20.00	23.00	
	134	5670	20.00	20.00	23.00	
802.11be-EHT80 MCS0	142	5710	20.00	20.00	23.00	
	106	5530	15.50	15.50	18.50	
	122	5610	20.00	20.00	23.00	
	138	5690	20.00	20.00	23.00	
802.11be-EHT160 MCS0	114	5570	16.00	16.00	19.00	



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT40 MCS0		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11ac-VHT40 MCS0		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT80 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00
802.11ax-HE20 MCS0		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
		151	5755	20.00	20.00	23.00
802.11ax-HE40 MCS0		159	5795	19.00	19.00	22.00
		155	5775	20.00	20.00	23.00
802.11ax-HE80 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
802.11be-EHT20 MCS0		165	5825	19.00	19.00	22.00
		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11be-EHT40 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00
802.11be-EHT80 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00

Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11n-HT20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11n-HT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ac-VHT20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11ac-VHT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ac-VHT80 MCS0		171	5855	19.50	19.50	22.50
		163	5815	19.50	19.50	22.50
802.11ax-HE20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11ax-HE40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ax-HE80 MCS0		171	5855	19.50	19.50	22.50
		163	5815	19.50	19.50	22.50
802.11be-EHT20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11be-EHT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11be-EHT80 MCS0		171	5855	19.50	19.50	22.50
		163	5815	19.50	19.50	22.50



<Power index 7> Non-RSDB

<2.4GHz WLAN>

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	22.50
		6	2437	22.50
		11	2462	22.50
		12	2467	22.50
		13	2472	21.50

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	20.00
		6	2437	20.00
		11	2462	20.00
		12	2467	20.00
		13	2472	20.00

Burst Average Power (dBm)						
2.4GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
2.4GHz WLAN	802.11g 6Mbps	1	2412	19.00	19.00	22.00
		6	2437	19.00	19.00	22.00
		11	2462	19.00	19.00	22.00
		12	2467	16.00	16.00	19.00
		13	2472	13.00	13.00	16.00
	802.11n-HT20 MCS0	1	2412	19.00	19.00	22.00
		6	2437	19.00	19.00	22.00
		11	2462	19.00	19.00	22.00
		12	2467	16.00	16.00	19.00
	802.11ac-VHT20 MCS0	1	2412	19.00	19.00	22.00
		6	2437	19.00	19.00	22.00
		11	2462	19.00	19.00	22.00
		12	2467	16.00	16.00	19.00
	802.11ax-HE20 MCS0	1	2412	19.00	19.00	22.00
		6	2437	19.00	19.00	22.00
		11	2462	19.00	19.00	22.00
		12	2467	16.00	16.00	19.00
	802.11be-EHT20 MCS0	1	2412	19.00	19.00	22.00
		6	2437	19.00	19.00	22.00
		11	2462	19.00	19.00	22.00
12		2467	16.00	16.00	19.00	
		13	2472	13.00	13.00	16.00



<5GHz WLAN>

Burst Average Power (dBm)							
5.2GHz WLAN	Transmit Antenna	Mode	Channel	Frequency (MHz)	MIMO		
					Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
	802.11a 6Mbps		36	5180	19.00	19.00	22.00
			40	5200	19.00	19.00	22.00
			44	5220	19.00	19.00	22.00
			48	5240	19.00	19.00	22.00
	802.11n-HT20 MCS0		36	5180	19.00	19.00	22.00
			40	5200	19.00	19.00	22.00
			44	5220	19.00	19.00	22.00
	802.11n-HT40 MCS0		48	5240	19.00	19.00	22.00
			38	5190	16.00	16.00	19.00
			46	5230	19.00	19.00	22.00
	802.11ac-VHT20 MCS0		36	5180	19.00	19.00	22.00
			40	5200	19.00	19.00	22.00
			44	5220	19.00	19.00	22.00
			48	5240	19.00	19.00	22.00
	802.11ac-VHT40 MCS0		38	5190	16.00	16.00	19.00
			46	5230	19.00	19.00	22.00
	802.11ac-VHT80 MCS0		42	5210	16.50	16.50	19.50
			36	5180	19.00	19.00	22.00
	802.11ax-HE20 MCS0		40	5200	19.00	19.00	22.00
			44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00	
		38	5190	16.00	16.00	19.00	
802.11ax-HE40 MCS0		46	5230	19.00	19.00	22.00	
		42	5210	16.50	16.50	19.50	
802.11ax-HE80 MCS0		36	5180	19.00	19.00	22.00	
		40	5200	19.00	19.00	22.00	
		44	5220	19.00	19.00	22.00	
		48	5240	19.00	19.00	22.00	
802.11be-EHT20 MCS0		38	5190	16.00	16.00	19.00	
		46	5230	19.00	19.00	22.00	
		42	5210	16.50	16.50	19.50	
802.11be-EHT40 MCS0		36	5180	19.00	19.00	22.00	
		40	5200	19.00	19.00	22.00	
802.11be-EHT80 MCS0		44	5220	19.00	19.00	22.00	
		48	5240	19.00	19.00	22.00	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	19.00	19.00	22.00
802.11n-HT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11n-HT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
802.11ac-VHT40 MCS0		64	5320	18.50	18.50	21.50
		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT80 MCS0		58	5290	17.00	17.00	20.00
		50	5250	15.00	15.00	18.00
802.11ac-VHT160 MCS0		52	5260	15.00	15.00	18.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11ax-HE20 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ax-HE40 MCS0		58	5290	17.00	17.00	20.00
		50	5250	15.00	15.00	18.00
802.11ax-HE80 MCS0		52	5260	15.00	15.00	18.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11ax-HE160 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11be-EHT20 MCS0		58	5290	17.00	17.00	20.00
		50	5250	15.00	15.00	18.00
		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
802.11be-EHT40 MCS0		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
		54	5270	19.00	19.00	22.00
802.11be-EHT80 MCS0		62	5310	14.50	14.50	17.50
		58	5290	17.00	17.00	20.00
802.11be-EHT160 MCS0		50	5250	15.00	15.00	18.00
		52	5260	15.00	15.00	18.00



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		100	5500	19.50	19.50	22.50
		116	5580	19.50	19.50	22.50
		124	5620	19.50	19.50	22.50
		132	5660	19.50	19.50	22.50
		144	5720	19.50	19.50	22.50
802.11n-HT20 MCS0		100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
		132	5660	20.00	20.00	23.00
802.11n-HT40 MCS0		102	5510	15.50	15.50	18.50
		110	5550	20.00	20.00	23.00
		126	5630	20.00	20.00	23.00
		134	5670	20.00	20.00	23.00
802.11ac-VHT20 MCS0		142	5710	20.00	20.00	23.00
		100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
802.11ac-VHT40 MCS0		132	5660	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
		102	5510	15.50	15.50	18.50
		110	5550	20.00	20.00	23.00
802.11ac-VHT80 MCS0		126	5630	20.00	20.00	23.00
		134	5670	20.00	20.00	23.00
		142	5710	20.00	20.00	23.00
		106	5530	15.50	15.50	18.50
802.11ac-VHT160 MCS0		122	5610	20.00	20.00	23.00
		138	5690	20.00	20.00	23.00
		114	5570	16.00	16.00	19.00
802.11ax-HE20 MCS0		100	5500	20.00	20.00	23.00
		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
		132	5660	20.00	20.00	23.00
802.11ax-HE40 MCS0		144	5720	20.00	20.00	23.00
		102	5510	15.50	15.50	18.50
		110	5550	20.00	20.00	23.00
		126	5630	20.00	20.00	23.00
802.11ax-HE80 MCS0		134	5670	20.00	20.00	23.00
		142	5710	20.00	20.00	23.00
		106	5530	15.50	15.50	18.50
		122	5610	20.00	20.00	23.00
802.11ax-HE160 MCS0		138	5690	20.00	20.00	23.00
		114	5570	16.00	16.00	19.00
		100	5500	20.00	20.00	23.00
802.11be-EHT20 MCS0		116	5580	20.00	20.00	23.00
		124	5620	20.00	20.00	23.00
		132	5660	20.00	20.00	23.00
		144	5720	20.00	20.00	23.00
802.11be-EHT40 MCS0		102	5510	15.50	15.50	18.50
		110	5550	20.00	20.00	23.00
		126	5630	20.00	20.00	23.00
		134	5670	20.00	20.00	23.00
802.11be-EHT80 MCS0		142	5710	20.00	20.00	23.00
		106	5530	15.50	15.50	18.50
		122	5610	20.00	20.00	23.00
		138	5690	20.00	20.00	23.00
802.11be-EHT160 MCS0		114	5570	16.00	16.00	19.00



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT40 MCS0		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11ac-VHT40 MCS0		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT80 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00
802.11ax-HE20 MCS0		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
		151	5755	20.00	20.00	23.00
802.11ax-HE40 MCS0		159	5795	19.00	19.00	22.00
		155	5775	20.00	20.00	23.00
802.11ax-HE80 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
802.11be-EHT20 MCS0		165	5825	19.00	19.00	22.00
		151	5755	20.00	20.00	23.00
		159	5795	19.00	19.00	22.00
802.11be-EHT40 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00
802.11be-EHT80 MCS0		155	5775	20.00	20.00	23.00
		149	5745	19.00	19.00	22.00

Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11n-HT20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11n-HT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ac-VHT20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11ac-VHT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ac-VHT80 MCS0		171	5855	19.50	19.50	22.50
		163	5815	19.50	19.50	22.50
802.11ax-HE20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11ax-HE40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ax-HE80 MCS0		171	5855	19.50	19.50	22.50
		163	5815	19.50	19.50	22.50
802.11be-EHT20 MCS0		169	5845	19.00	19.00	22.00
		173	5865	19.00	19.00	22.00
		177	5885	19.00	19.00	22.00
802.11be-EHT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11be-EHT80 MCS0		171	5855	19.50	19.50	22.50
		163	5815	19.50	19.50	22.50
802.11be-EHT160 MCS0		163	5815	19.50	19.50	22.50



<Power index 8> RSDB

<2.4GHz WLAN>

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 3
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	19.50
		6	2437	19.50
		11	2462	19.50
		12	2467	19.50
		13	2472	19.50

Burst Average Power (dBm)				
Transmit Antenna				SISO Ant 4
2.4GHz WLAN	Mode	Tune-Up Limit	Frequency (MHz)	Tune-Up Limit
	802.11b 1Mbps	1	2412	17.50
		6	2437	17.50
		11	2462	17.50
		12	2467	17.50
		13	2472	17.50

Burst Average Power (dBm)						
2.4GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11g 6Mbps	802.11g 6Mbps	1	2412	15.00	15.00	18.00
		6	2437	15.00	15.00	18.00
		11	2462	15.00	15.00	18.00
		12	2467	15.00	15.00	18.00
		13	2472	13.00	13.00	16.00
	802.11n-HT20 MCS0	1	2412	15.00	15.00	18.00
		6	2437	15.00	15.00	18.00
		11	2462	15.00	15.00	18.00
		12	2467	15.00	15.00	18.00
		13	2472	13.00	13.00	16.00
	802.11ac-VHT20 MCS0	1	2412	15.00	15.00	18.00
		6	2437	15.00	15.00	18.00
		11	2462	15.00	15.00	18.00
		12	2467	15.00	15.00	18.00
		13	2472	13.00	13.00	16.00
	802.11ax-HE20 MCS0	1	2412	15.00	15.00	18.00
		6	2437	15.00	15.00	18.00
		11	2462	15.00	15.00	18.00
		12	2467	15.00	15.00	18.00
		13	2472	13.00	13.00	16.00
802.11be-EHT20 MCS0	1	2412	15.00	15.00	18.00	
	6	2437	15.00	15.00	18.00	
	11	2462	15.00	15.00	18.00	
	12	2467	15.00	15.00	18.00	
	13	2472	13.00	13.00	16.00	



<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
	802.11n-HT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
	802.11n-HT40 MCS0	38	5190	16.00	16.00	19.00
		46	5230	19.00	19.00	22.00
	802.11ac-VHT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
	802.11ac-VHT40 MCS0	38	5190	16.00	16.00	19.00
	802.11ac-VHT80 MCS0	46	5230	19.00	19.00	22.00
		42	5210	16.50	16.50	19.50
	802.11ax-HE20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
802.11ax-HE40 MCS0	38	5190	16.00	16.00	19.00	
802.11ax-HE80 MCS0	46	5230	19.00	19.00	22.00	
	42	5210	16.50	16.50	19.50	
802.11be-EHT20 MCS0	36	5180	19.00	19.00	22.00	
	40	5200	19.00	19.00	22.00	
	44	5220	19.00	19.00	22.00	
	48	5240	19.00	19.00	22.00	
802.11be-EHT40 MCS0	38	5190	16.00	16.00	19.00	
	46	5230	19.00	19.00	22.00	
802.11be-EHT80 MCS0	42	5210	16.50	16.50	19.50	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	19.00	19.00	22.00
802.11n-HT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11n-HT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11ac-VHT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT80 MCS0		58	5290	17.00	17.00	20.00
802.11ac-VHT160 MCS0		50	5250	15.00	15.00	18.00
802.11ax-HE20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11ax-HE40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ax-HE80 MCS0		58	5290	17.00	17.00	20.00
802.11ax-HE160 MCS0		50	5250	15.00	15.00	18.00
802.11be-EHT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11be-EHT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11be-EHT80 MCS0		58	5290	17.00	17.00	20.00
802.11be-EHT160 MCS0		50	5250	15.00	15.00	18.00



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500	19.00	19.00	22.00
		116	5580	19.00	19.00	22.00
		124	5620	19.00	19.00	22.00
		132	5660	19.00	19.00	22.00
		144	5720	19.00	19.00	22.00
	802.11n-HT20 MCS0	100	5500	19.00	19.00	22.00
		116	5580	19.00	19.00	22.00
		124	5620	19.00	19.00	22.00
		132	5660	19.00	19.00	22.00
	802.11n-HT40 MCS0	144	5720	19.00	19.00	22.00
		102	5510	15.50	15.50	18.50
		110	5550	19.00	19.00	22.00
		126	5630	19.00	19.00	22.00
	802.11ac-VHT20 MCS0	134	5670	19.00	19.00	22.00
		142	5710	19.00	19.00	22.00
		100	5500	19.00	19.00	22.00
		116	5580	19.00	19.00	22.00
	802.11ac-VHT40 MCS0	124	5620	19.00	19.00	22.00
		132	5660	19.00	19.00	22.00
		144	5720	19.00	19.00	22.00
102		5510	15.50	15.50	18.50	
802.11ac-VHT80 MCS0	110	5550	19.00	19.00	22.00	
	126	5630	19.00	19.00	22.00	
	134	5670	19.00	19.00	22.00	
	142	5710	19.00	19.00	22.00	
802.11ac-VHT160 MCS0	106	5530	15.50	15.50	18.50	
	122	5610	19.00	19.00	22.00	
	138	5690	19.00	19.00	22.00	
802.11ax-HE20 MCS0	114	5570	16.00	16.00	19.00	
	100	5500	19.00	19.00	22.00	
	116	5580	19.00	19.00	22.00	
	124	5620	19.00	19.00	22.00	
802.11ax-HE40 MCS0	132	5660	19.00	19.00	22.00	
	144	5720	19.00	19.00	22.00	
	102	5510	15.50	15.50	18.50	
	110	5550	19.00	19.00	22.00	
802.11ax-HE80 MCS0	126	5630	19.00	19.00	22.00	
	134	5670	19.00	19.00	22.00	
	142	5710	19.00	19.00	22.00	
	106	5530	15.50	15.50	18.50	
802.11ax-HE160 MCS0	122	5610	19.00	19.00	22.00	
	138	5690	19.00	19.00	22.00	
	114	5570	16.00	16.00	19.00	
802.11be-EHT20 MCS0	100	5500	19.00	19.00	22.00	
	116	5580	19.00	19.00	22.00	
	124	5620	19.00	19.00	22.00	
	132	5660	19.00	19.00	22.00	
802.11be-EHT40 MCS0	144	5720	19.00	19.00	22.00	
	102	5510	15.50	15.50	18.50	
	110	5550	19.00	19.00	22.00	
	126	5630	19.00	19.00	22.00	
802.11be-EHT80 MCS0	134	5670	19.00	19.00	22.00	
	142	5710	19.00	19.00	22.00	
	106	5530	15.50	15.50	18.50	
	122	5610	19.00	19.00	22.00	
802.11be-EHT160 MCS0	138	5690	19.00	19.00	22.00	
	114	5570	16.00	16.00	19.00	



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT40 MCS0		151	5755	19.00	19.00	22.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11ac-VHT40 MCS0		151	5755	19.00	19.00	22.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT80 MCS0		155	5775	19.00	19.00	22.00
		149	5745	19.00	19.00	22.00
802.11ax-HE20 MCS0		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
		151	5755	19.00	19.00	22.00
802.11ax-HE40 MCS0		159	5795	19.00	19.00	22.00
		155	5775	19.00	19.00	22.00
802.11ax-HE80 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
802.11be-EHT20 MCS0		165	5825	19.00	19.00	22.00
		151	5755	19.00	19.00	22.00
		159	5795	19.00	19.00	22.00
802.11be-EHT40 MCS0		155	5775	19.00	19.00	22.00
		149	5745	19.00	19.00	22.00
802.11be-EHT80 MCS0		155	5775	19.00	19.00	22.00
		149	5745	19.00	19.00	22.00

Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
802.11n-HT20 MCS0		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
802.11n-HT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ac-VHT20 MCS0		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
802.11ac-VHT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ac-VHT80 MCS0		171	5855	18.50	18.50	21.50
		163	5815	18.50	18.50	21.50
802.11ax-HE20 MCS0		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
802.11ax-HE40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ax-HE80 MCS0		171	5855	18.50	18.50	21.50
		163	5815	18.50	18.50	21.50
802.11be-EHT20 MCS0		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
802.11be-EHT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11be-EHT80 MCS0		171	5855	18.50	18.50	21.50
		163	5815	18.50	18.50	21.50
802.11be-EHT160 MCS0		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50



<Power index 9> Non-RSDB

<5GHz WLAN>

Burst Average Power (dBm)						
5.2GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
	802.11a 6Mbps	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
	802.11n-HT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
	802.11n-HT40 MCS0	38	5190	16.00	16.00	19.00
		46	5230	19.00	19.00	22.00
	802.11ac-VHT20 MCS0	36	5180	19.00	19.00	22.00
		40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
		48	5240	19.00	19.00	22.00
	802.11ac-VHT40 MCS0	38	5190	16.00	16.00	19.00
		46	5230	19.00	19.00	22.00
	802.11ac-VHT80 MCS0	42	5210	16.50	16.50	19.50
		36	5180	19.00	19.00	22.00
	802.11ax-HE20 MCS0	40	5200	19.00	19.00	22.00
		44	5220	19.00	19.00	22.00
48		5240	19.00	19.00	22.00	
38		5190	16.00	16.00	19.00	
802.11ax-HE40 MCS0	46	5230	19.00	19.00	22.00	
	42	5210	16.50	16.50	19.50	
802.11be-EHT20 MCS0	36	5180	19.00	19.00	22.00	
	40	5200	19.00	19.00	22.00	
	44	5220	19.00	19.00	22.00	
	48	5240	19.00	19.00	22.00	
802.11be-EHT40 MCS0	38	5190	16.00	16.00	19.00	
	46	5230	19.00	19.00	22.00	
802.11be-EHT80 MCS0	42	5210	16.50	16.50	19.50	



Burst Average Power (dBm)						
5.3GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	19.00	19.00	22.00
802.11n-HT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11n-HT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
802.11ac-VHT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
		64	5320	18.50	18.50	21.50
802.11ac-VHT80 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ac-VHT160 MCS0		58	5290	17.00	17.00	20.00
802.11ax-HE20 MCS0		50	5250	15.00	15.00	18.00
		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
802.11ax-HE40 MCS0		64	5320	18.50	18.50	21.50
		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11ax-HE80 MCS0		58	5290	17.00	17.00	20.00
802.11ax-HE160 MCS0		50	5250	15.00	15.00	18.00
802.11be-EHT20 MCS0		52	5260	19.00	19.00	22.00
		56	5280	19.00	19.00	22.00
		60	5300	19.00	19.00	22.00
		64	5320	18.50	18.50	21.50
802.11be-EHT40 MCS0		54	5270	19.00	19.00	22.00
		62	5310	14.50	14.50	17.50
802.11be-EHT80 MCS0		58	5290	17.00	17.00	20.00
802.11be-EHT160 MCS0		50	5250	15.00	15.00	18.00



Burst Average Power (dBm)						
5.5GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
802.11a 6Mbps		100	5500	19.00	19.00	22.00
		116	5580	19.00	19.00	22.00
		124	5620	19.00	19.00	22.00
		132	5660	19.00	19.00	22.00
		144	5720	19.00	19.00	22.00
802.11n-HT20 MCS0		100	5500	19.00	19.00	22.00
		116	5580	19.00	19.00	22.00
		124	5620	19.00	19.00	22.00
		132	5660	19.00	19.00	22.00
802.11n-HT40 MCS0		144	5720	19.00	19.00	22.00
		102	5510	15.50	15.50	18.50
		110	5550	19.00	19.00	22.00
		126	5630	19.00	19.00	22.00
802.11ac-VHT20 MCS0		134	5670	19.00	19.00	22.00
		142	5710	19.00	19.00	22.00
		100	5500	19.00	19.00	22.00
		116	5580	19.00	19.00	22.00
802.11ac-VHT40 MCS0		124	5620	19.00	19.00	22.00
		132	5660	19.00	19.00	22.00
		144	5720	19.00	19.00	22.00
		102	5510	15.50	15.50	18.50
802.11ac-VHT80 MCS0		110	5550	19.00	19.00	22.00
		126	5630	19.00	19.00	22.00
		134	5670	19.00	19.00	22.00
		142	5710	19.00	19.00	22.00
802.11ac-VHT160 MCS0		106	5530	15.50	15.50	18.50
		122	5610	19.00	19.00	22.00
		138	5690	19.00	19.00	22.00
802.11ax-HE20 MCS0		114	5570	16.00	16.00	19.00
		100	5500	19.00	19.00	22.00
		116	5580	19.00	19.00	22.00
		124	5620	19.00	19.00	22.00
802.11ax-HE40 MCS0		132	5660	19.00	19.00	22.00
		144	5720	19.00	19.00	22.00
		102	5510	15.50	15.50	18.50
		110	5550	19.00	19.00	22.00
802.11ax-HE80 MCS0		126	5630	19.00	19.00	22.00
		134	5670	19.00	19.00	22.00
		142	5710	19.00	19.00	22.00
		106	5530	15.50	15.50	18.50
802.11ax-HE160 MCS0		122	5610	19.00	19.00	22.00
		138	5690	19.00	19.00	22.00
		114	5570	16.00	16.00	19.00
802.11be-EHT20 MCS0		100	5500	19.00	19.00	22.00
		116	5580	19.00	19.00	22.00
		124	5620	19.00	19.00	22.00
		132	5660	19.00	19.00	22.00
802.11be-EHT40 MCS0		144	5720	19.00	19.00	22.00
		102	5510	15.50	15.50	18.50
		110	5550	19.00	19.00	22.00
		126	5630	19.00	19.00	22.00
802.11be-EHT80 MCS0		134	5670	19.00	19.00	22.00
		142	5710	19.00	19.00	22.00
		106	5530	15.50	15.50	18.50
		122	5610	19.00	19.00	22.00
802.11be-EHT160 MCS0		138	5690	19.00	19.00	22.00
		114	5570	16.00	16.00	19.00



Burst Average Power (dBm)						
5.8GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11n-HT40 MCS0		151	5755	19.00	19.00	22.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT20 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
802.11ac-VHT40 MCS0		151	5755	19.00	19.00	22.00
		159	5795	19.00	19.00	22.00
802.11ac-VHT80 MCS0		155	5775	19.00	19.00	22.00
		149	5745	19.00	19.00	22.00
802.11ax-HE20 MCS0		157	5785	19.00	19.00	22.00
		165	5825	19.00	19.00	22.00
		151	5755	19.00	19.00	22.00
802.11ax-HE40 MCS0		159	5795	19.00	19.00	22.00
		155	5775	19.00	19.00	22.00
802.11ax-HE80 MCS0		149	5745	19.00	19.00	22.00
		157	5785	19.00	19.00	22.00
802.11be-EHT20 MCS0		165	5825	19.00	19.00	22.00
		151	5755	19.00	19.00	22.00
		159	5795	19.00	19.00	22.00
802.11be-EHT40 MCS0		155	5775	19.00	19.00	22.00
		149	5745	19.00	19.00	22.00

Burst Average Power (dBm)						
5.9GHz WLAN	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
802.11a 6Mbps		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
802.11n-HT20 MCS0		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
802.11n-HT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ac-VHT20 MCS0		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
802.11ac-VHT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ac-VHT80 MCS0		171	5855	18.50	18.50	21.50
		163	5815	18.50	18.50	21.50
802.11ax-HE20 MCS0		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
802.11ax-HE40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11ax-HE80 MCS0		171	5855	18.50	18.50	21.50
		163	5815	18.50	18.50	21.50
802.11be-EHT20 MCS0		169	5845	18.50	18.50	21.50
		173	5865	18.50	18.50	21.50
		177	5885	18.50	18.50	21.50
802.11be-EHT40 MCS0		167	5835	18.50	18.50	21.50
		175	5875	18.50	18.50	21.50
802.11be-EHT80 MCS0		171	5855	18.50	18.50	21.50
		163	5815	18.50	18.50	21.50



<Maximum Power - Power Index 0>

Standard Power client (SP)

Transmit Antenna		Burst Average Power (dBm)			MIMO		
		Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
WiFi 6E	802.11a 6Mbps	1	5955	18.50	18.50	21.50	
		57	6235	17.50	17.50	20.50	
		113	6515				
		173	6815	17.00	17.00	20.00	
		233	7115				
	802.11ax-HE20 MCS0	1	5955	18.50	18.50	21.50	
		57	6235	16.50	16.50	19.50	
		113	6515				
		173	6815	17.00	17.00	20.00	
		233	7115				
	802.11ax-HE40 MCS0	3	5965	20.00	20.00	23.00	
		59	6245	18.00	18.00	21.00	
		107	6485				
		171	6805	18.50	18.50	21.50	
		227	7085				
	802.11ax-HE80 MCS0	7	5985	20.00	20.00	23.00	
		71	6305	20.00	20.00	23.00	
		119	6545				
		167	6785	20.00	20.00	23.00	
		215	7025				
	802.11ax-HE160 MCS0	15	6025	20.00	20.00	23.00	
		47	6185	19.00	19.00	22.00	
		111	6505				
		143	6665	19.00	19.00	22.00	
		207	6985				
	802.11be-EHT20 MCS0	1	5955	18.50	18.50	21.50	
		57	6235	16.50	16.50	19.50	
		113	6515				
		173	6815	17.00	17.00	20.00	
		233	7115				
	802.11be-EHT40 MCS0	3	5965	20.00	20.00	23.00	
		59	6245	18.00	18.00	21.00	
		107	6485				
		171	6805	18.50	18.50	21.50	
		227	7085				
	802.11be-EHT80 MCS0	7	5985	20.00	20.00	23.00	
		71	6305	20.00	20.00	23.00	
		119	6545				
		167	6785	20.00	20.00	23.00	
		215	7025				
802.11be-EHT160 MCS0	15	6025	20.00	20.00	23.00		
	47	6185	19.00	19.00	22.00		
	111	6505					
	143	6665	19.00	19.00	22.00		
	207	6985					



<Power Index 1 /Power Index 2 /Power Index 3 /Power Index 4> Non-RSDB / RSDB

Standard Power client (SP)

<6GHz WLAN>

Burst Average Power (dBm)						
	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3) Tune-Up Limit	Ant 3+4(4) Tune-Up Limit	Ant 3+4 Tune-Up Limit
WiFi 6E	802.11a 6Mbps	1	5955	13.50	13.50	16.50
		57	6235	13.50	13.50	16.50
		113	6515			
		173	6815	16.00	16.00	19.00
		233	7115			
	802.11ax-HE20 MCS0	1	5955	13.50	13.50	16.50
		57	6235	13.50	13.50	16.50
		113	6515			
		173	6815	16.00	16.00	19.00
		233	7115			
	802.11ax-HE40 MCS0	3	5965	13.50	13.50	16.50
		59	6245	13.50	13.50	16.50
		107	6485			
		171	6805	16.00	16.00	19.00
		227	7085			
	802.11ax-HE80 MCS0	7	5985	13.50	13.50	16.50
		71	6305	13.50	13.50	16.50
		119	6545			
		167	6785	16.00	16.00	19.00
		215	7025			
	802.11ax-HE160 MCS0	15	6025	13.50	13.50	16.50
		47	6185	13.50	13.50	16.50
		111	6505			
		143	6665	16.00	16.00	19.00
		207	6985			
	802.11be-EHT20 MCS0	1	5955	13.50	13.50	16.50
		57	6235	13.50	13.50	16.50
		113	6515			
		173	6815	16.00	16.00	19.00
		233	7115			
	802.11be-EHT40 MCS0	3	5965	13.50	13.50	16.50
		59	6245	13.50	13.50	16.50
		107	6485			
		171	6805	16.00	16.00	19.00
		227	7085			
	802.11be-EHT80 MCS0	7	5985	13.50	13.50	16.50
		71	6305	13.50	13.50	16.50
		119	6545			
		167	6785	16.00	16.00	19.00
		215	7025			
802.11be-EHT160 MCS0	15	6025	13.50	13.50	16.50	
	47	6185	13.50	13.50	16.50	
	111	6505				
	143	6665	16.00	16.00	19.00	
	207	6985				



<Power Index 5 /Power Index 6 /Power Index 7 /Power Index 8 /Power Index 9> Non-RSDB / RSDB

Standard Power client (SP)

<6GHz WLAN>

Burst Average Power (dBm)						
WiFi 6E	Transmit Antenna			MIMO		
	Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
				Tune-Up Limit	Tune-Up Limit	Tune-Up Limit
WiFi 6E	802.11a 6Mbps	1	5955	15.50	15.50	18.50
		57	6235	15.50	15.50	18.50
		113	6515			
		173	6815	17.00	17.00	20.00
		233	7115			
	802.11ax-HE20 MCS0	1	5955	15.50	15.50	18.50
		57	6235	15.50	15.50	18.50
		113	6515			
		173	6815	17.00	17.00	20.00
		233	7115			
	802.11ax-HE40 MCS0	3	5965	15.50	15.50	18.50
		59	6245	15.50	15.50	18.50
		107	6485			
		171	6805	17.00	17.00	20.00
		227	7085			
	802.11ax-HE80 MCS0	7	5985	15.50	15.50	18.50
		71	6305	15.50	15.50	18.50
		119	6545			
		167	6785	17.00	17.00	20.00
		215	7025			
802.11ax-HE160 MCS0	15	6025	15.50	15.50	18.50	
	47	6185	15.50	15.50	18.50	
	111	6505				
	143	6665	17.00	17.00	20.00	
	207	6985				
802.11be-EHT20 MCS0	1	5955	15.50	15.50	18.50	
	57	6235	15.50	15.50	18.50	
	113	6515				
	173	6815	17.00	17.00	20.00	
	233	7115				
802.11be-EHT40 MCS0	3	5965	15.50	15.50	18.50	
	59	6245	15.50	15.50	18.50	
	107	6485				
	171	6805	17.00	17.00	20.00	
	227	7085				
802.11be-EHT80 MCS0	7	5985	15.50	15.50	18.50	
	71	6305	15.50	15.50	18.50	
	119	6545				
	167	6785	17.00	17.00	20.00	
	215	7025				
802.11be-EHT160 MCS0	15	6025	15.50	15.50	18.50	
	47	6185	15.50	15.50	18.50	
	111	6505				
	143	6665	17.00	17.00	20.00	
	207	6985				



<Maximum Power - Power Index 0>

Low Power Indoor (LPI)

Transmit Antenna		Burst Average Power (dBm)				
		Mode	Channel	Frequency (MHz)	Ant 3+4(3)	MIMO
Tune-Up Limit	Ant 3+4(4)				Tune-Up Limit	Tune-Up Limit
WiFi 6E	802.11a 6Mbps	1	5955	10.00	10.00	13.00
		57	6235	10.00	10.00	13.00
		113	6515	10.00	10.00	13.00
		173	6815	10.50	10.50	13.50
		233	7115	11.50	11.50	14.50
	802.11ax-HE20 MCS0	1	5955	10.50	10.50	13.50
		57	6235	10.50	10.50	13.50
		113	6515	10.50	10.50	13.50
		173	6815	11.50	11.50	14.50
		233	7115	11.50	11.50	14.50
	802.11ax-HE40 MCS0	3	5965	13.50	13.50	16.50
		59	6245	13.50	13.50	16.50
		107	6485	13.50	13.50	16.50
		171	6805	14.00	14.00	17.00
		227	7085	14.50	14.50	17.50
	802.11ax-HE80 MCS0	7	5985	16.50	16.50	19.50
		71	6305	16.50	16.50	19.50
		119	6545	16.50	16.50	19.50
		167	6785	16.50	16.50	19.50
		215	7025	16.50	16.50	19.50
	802.11ax-HE160 MCS0	15	6025	19.00	19.00	22.00
		47	6185	19.00	19.00	22.00
		111	6505	19.00	19.00	22.00
		143	6665	19.00	19.00	22.00
		207	6985	20.00	20.00	23.00
	802.11be-EHT20 MCS0	1	5955	10.50	10.50	13.50
		57	6235	10.50	10.50	13.50
		113	6515	10.50	10.50	13.50
		173	6815	11.50	11.50	14.50
		233	7115	11.50	11.50	14.50
	802.11be-EHT40 MCS0	3	5965	13.50	13.50	16.50
		59	6245	13.50	13.50	16.50
		107	6485	13.50	13.50	16.50
		171	6805	14.00	14.00	17.00
		227	7085	14.50	14.50	17.50
	802.11be-EHT80 MCS0	7	5985	16.50	16.50	19.50
		71	6305	16.50	16.50	19.50
		119	6545	16.50	16.50	19.50
		167	6785	16.50	16.50	19.50
		215	7025	16.50	16.50	19.50
802.11be-EHT160 MCS0	15	6025	19.00	19.00	22.00	
	47	6185	19.00	19.00	22.00	
	111	6505	19.00	19.00	22.00	
	143	6665	19.00	19.00	22.00	
	207	6985	20.00	20.00	23.00	



<Power Index 1 / Power Index 2 / Power Index 3 / Power Index 4> Non-RSDB / RSDB

Low Power Indoor (LPI)

<6GHz WLAN>

		Burst Average Power (dBm)					
Transmit Antenna					MIMO		
Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4		
			Tune-Up Limit	Tune-Up Limit	Tune-Up Limit		
WiFi 6E	802.11a 6Mbps	1	5955	10.00	10.00	13.00	
		57	6235	10.00	10.00	13.00	
		113	6515	10.00	10.00	13.00	
		173	6815	10.50	10.50	13.50	
		233	7115	11.50	11.50	14.50	
	802.11ax-HE20 MCS0	1	5955	10.50	10.50	13.50	
		57	6235	10.50	10.50	13.50	
		113	6515	10.50	10.50	13.50	
		173	6815	11.50	11.50	14.50	
	802.11ax-HE40 MCS0	233	7115	11.50	11.50	14.50	
		3	5965	13.50	13.50	16.50	
		59	6245	13.50	13.50	16.50	
		107	6485	13.50	13.50	16.50	
	802.11ax-HE80 MCS0	171	6805	14.00	14.00	17.00	
		227	7085	14.50	14.50	17.50	
		7	5985	13.50	13.50	16.50	
	802.11ax-HE160 MCS0	71	6305	13.50	13.50	16.50	
		119	6545	16.00	16.00	19.00	
		167	6785	16.00	16.00	19.00	
		215	7025	15.00	15.00	18.00	
802.11be-EHT20 MCS0	15	6025	13.50	13.50	16.50		
	47	6185	13.50	13.50	16.50		
	111	6505	16.00	16.00	19.00		
	143	6665	16.00	16.00	19.00		
	207	6985	15.00	15.00	18.00		
802.11be-EHT40 MCS0	1	5955	10.50	10.50	13.50		
	57	6235	10.50	10.50	13.50		
	113	6515	10.50	10.50	13.50		
	173	6815	11.50	11.50	14.50		
802.11be-EHT80 MCS0	233	7115	11.50	11.50	14.50		
	3	5965	13.50	13.50	16.50		
	59	6245	13.50	13.50	16.50		
	107	6485	13.50	13.50	16.50		
802.11be-EHT160 MCS0	171	6805	14.00	14.00	17.00		
	227	7085	14.50	14.50	17.50		
	7	5985	13.50	13.50	16.50		
	71	6305	13.50	13.50	16.50		
802.11be-EHT20 MCS0	119	6545	16.00	16.00	19.00		
	167	6785	16.00	16.00	19.00		
	215	7025	15.00	15.00	18.00		
	15	6025	13.50	13.50	16.50		
802.11be-EHT40 MCS0	47	6185	13.50	13.50	16.50		
	111	6505	16.00	16.00	19.00		
	143	6665	16.00	16.00	19.00		
	207	6985	15.00	15.00	18.00		



<Power Index 5 / Power Index 6 / Power Index 7 / Power Index 8 / Power Index 9> Non-RSDB / RSDB

Low Power Indoor (LPI)

<6GHz WLAN>

		Burst Average Power (dBm)				
Transmit Antenna					MIMO	
Mode	Channel	Frequency (MHz)	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	
			Tune-Up Limit	Tune-Up Limit	Tune-Up Limit	
WiFi 6E	802.11a 6Mbps	1	5955	10.00	10.00	13.00
		57	6235	10.00	10.00	13.00
		113	6515	10.00	10.00	13.00
		173	6815	10.50	10.50	13.50
		233	7115	11.50	11.50	14.50
	802.11ax-HE20 MCS0	1	5955	10.50	10.50	13.50
		57	6235	10.50	10.50	13.50
		113	6515	10.50	10.50	13.50
		173	6815	11.50	11.50	14.50
	802.11ax-HE40 MCS0	233	7115	11.50	11.50	14.50
		3	5965	13.50	13.50	16.50
		59	6245	13.50	13.50	16.50
		107	6485	13.50	13.50	16.50
	802.11ax-HE80 MCS0	171	6805	14.00	14.00	17.00
		227	7085	14.50	14.50	17.50
		7	5985	15.50	15.50	18.50
	802.11ax-HE160 MCS0	71	6305	15.50	15.50	18.50
		119	6545	16.00	16.00	19.00
		167	6785	16.50	16.50	19.50
		215	7025	16.50	16.50	19.50
	802.11be-EHT20 MCS0	15	6025	15.50	15.50	18.50
		47	6185	15.50	15.50	18.50
		111	6505	16.00	16.00	19.00
		143	6665	17.00	17.00	20.00
	802.11be-EHT40 MCS0	207	6985	19.50	19.50	22.50
		1	5955	10.50	10.50	13.50
		57	6235	10.50	10.50	13.50
		113	6515	10.50	10.50	13.50
173		6815	11.50	11.50	14.50	
802.11be-EHT80 MCS0	233	7115	11.50	11.50	14.50	
	3	5965	13.50	13.50	16.50	
	59	6245	13.50	13.50	16.50	
	107	6485	13.50	13.50	16.50	
802.11be-EHT160 MCS0	171	6805	14.00	14.00	17.00	
	227	7085	14.50	14.50	17.50	
	7	5985	15.50	15.50	18.50	
	71	6305	15.50	15.50	18.50	
802.11be-EHT20 MCS0	119	6545	16.00	16.00	19.00	
	167	6785	16.50	16.50	19.50	
	215	7025	16.50	16.50	19.50	
	15	6025	15.50	15.50	18.50	
802.11be-EHT40 MCS0	47	6185	15.50	15.50	18.50	
	111	6505	16.00	16.00	19.00	
	143	6665	17.00	17.00	20.00	
	207	6985	19.50	19.50	22.50	



<Bluetooth Maximum Power>

General Note:

1. The device implements the power management for Bluetooth SAR compliance for different exposure conditions and user cases. In each exposure condition, the power index selection is determined by the user cases as tested in Section 15 of this report. Full details about the proprietary power management decision are illustrated in the operational description
2. 3+4(3) represents the test in 2TX operation, while the SAR or power data is associated with antenna 3
3. 3+4(4) represents the test in 2TX operation, while the SAR or power data is associated with antenna 4

<Maximum Power – Power Index 0>

Burst Average Power (dBm)								
Mode	Ant 3			Ant 3		Ant 3		
	BR / EDR			LE		HR		
	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	2Mbps	4Mbps	8Mbps
Tune-up Limit	21.00	18.00	18.00	20.00	20.00	18.50	18.00	18.00

Burst Average Power (dBm)								
Mode	Ant 4			Ant 4		Ant 4		
	BR / EDR			LE		HR		
	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	2Mbps	4Mbps	8Mbps
Tune-up Limit	20.00	18.00	18.00	19.00	19.00	18.00	18.00	18.00

Burst Average Power (dBm)										
Mode	BR / EDR	1Mbps			2Mbps			3Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		18.50	18.50	21.50	15.50	15.50	18.50	15.00	15.00	18.00

Burst Average Power (dBm)							
Mode	LE	1Mbps			2Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		18.50	18.50	21.50	18.50	18.50	21.50

Burst Average Power (dBm)										
Mode	HR	2Mbps			4Mbps			8Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		15.50	15.50	18.50	15.50	15.50	18.50	15.50	15.50	18.50



<Power Index 1>

Burst Average Power (dBm)								
Mode	Ant 3			Ant 3			Ant 3	
	BR / EDR			LE			HR	
	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	2Mbps	4Mbps	8Mbps
Tune-up Limit	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00

Burst Average Power (dBm)								
Mode	Ant 4			Ant 4			Ant 4	
	BR / EDR			LE			HR	
	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	2Mbps	4Mbps	8Mbps
Tune-up Limit	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00

Burst Average Power (dBm)										
Mode	BR / EDR	1Mbps			2Mbps			3Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		9.00	9.00	12.00	9.00	9.00	12.00	9.00	9.00	12.00

Burst Average Power (dBm)							
Mode	LE	1Mbps			2Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		9.00	9.00	12.00	9.00	9.00	12.00

Burst Average Power (dBm)										
Mode	HR	2Mbps			4Mbps			8Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		9.00	9.00	12.00	9.00	9.00	12.00	9.00	9.00	12.00

<Power Index 2>

Burst Average Power (dBm)								
Mode	Ant 3			Ant 3			Ant 3	
	BR / EDR			LE			HR	
	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	2Mbps	4Mbps	8Mbps
Tune-up Limit	21.00	18.00	18.00	20.00	20.00	18.50	18.50	18.50

Burst Average Power (dBm)								
Mode	Ant 4			Ant 4			Ant 4	
	BR / EDR			LE			HR	
	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	2Mbps	4Mbps	8Mbps
Tune-up Limit	20.00	18.00	18.00	19.00	19.00	18.50	18.50	18.50

Burst Average Power (dBm)										
Mode	BR / EDR	1Mbps			2Mbps			3Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		18.50	18.50	21.50	15.50	15.50	18.50	15.00	15.00	18.00

Burst Average Power (dBm)							
Mode	LE	1Mbps			2Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		18.50	18.50	21.50	18.50	18.50	21.50

Burst Average Power (dBm)										
Mode	HR	2Mbps			4Mbps			8Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		15.50	15.50	18.50	15.50	15.50	18.50	15.50	15.50	18.50



<Power Index 3/4>

Burst Average Power (dBm)								
Mode	Ant 3			Ant 3		Ant 3		
	BR / EDR			LE		HR		
	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	2Mbps	4Mbps	8Mbps
Tune-up Limit	21.00	18.00	18.00	20.00	20.00	18.50	18.50	18.50

Burst Average Power (dBm)								
Mode	Ant 4			Ant 4		Ant 4		
	BR / EDR			LE		HR		
	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	2Mbps	4Mbps	8Mbps
Tune-up Limit	18.50	18.00	18.00	18.50	18.50	18.50	18.50	18.50

Burst Average Power (dBm)										
Mode	BR / EDR	1Mbps			2Mbps			3Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		18.50	18.50	21.50	15.50	15.50	18.50	15.00	15.00	18.00

Burst Average Power (dBm)							
Mode	LE	1Mbps			2Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		18.50	18.50	21.50	18.50	18.50	21.50

Burst Average Power (dBm)										
Mode	HR	2Mbps			4Mbps			8Mbps		
		Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4	Ant 3+4(3)	Ant 3+4(4)	Ant 3+4
Tune-up Limit		15.50	15.50	18.50	15.50	15.50	18.50	15.50	15.50	18.50



2.3 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																															
FCC ID	A4RG1MNV																																																														
Equipment Name	Phone																																																														
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																														
Channel Bandwidth	LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																														
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																														
LTE Voice / Data requirements	Voice and Data																																																														
LTE MPR permanently built-in by design	<p>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</p> <table border="1"> <thead> <tr> <th rowspan="2">Modulation</th> <th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th> <th rowspan="2">MPR (dB)</th> </tr> <tr> <th>1.4 MHz</th> <th>3.0 MHz</th> <th>5 MHz</th> <th>10 MHz</th> <th>15 MHz</th> <th>20 MHz</th> </tr> </thead> <tbody> <tr> <td>QPSK</td> <td>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 16</td> <td>> 18</td> <td>≤ 1</td> </tr> <tr> <td>16 QAM</td> <td>≤ 5</td> <td>≤ 4</td> <td>≤ 8</td> <td>≤ 12</td> <td>≤ 16</td> <td>≤ 18</td> <td>≤ 1</td> </tr> <tr> <td>16 QAM</td> <td>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 16</td> <td>> 18</td> <td>≤ 2</td> </tr> <tr> <td>64 QAM</td> <td>≤ 5</td> <td>≤ 4</td> <td>≤ 8</td> <td>≤ 12</td> <td>≤ 16</td> <td>≤ 18</td> <td>≤ 2</td> </tr> <tr> <td>64 QAM</td> <td>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 16</td> <td>> 18</td> <td>≤ 3</td> </tr> <tr> <td>256 QAM</td> <td colspan="6" style="text-align: center;">≥ 1</td> <td>≤ 5</td> </tr> </tbody> </table>	Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)																																																								
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																									
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																								
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																								
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																								
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																								
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																								
256 QAM	≥ 1						≤ 5																																																								
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																														
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																														
Power reduction applied to satisfy SAR compliance	The device has several different power modes for each exposure conditions SAR compliance; power selection is determined by the device's positioning and usage scenarios. Detail refer to operational description.																																																														
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to section 13.																																																														
LTE Carrier Aggregation Additional Information	This device supports maximum of 6 carriers in the downlink and 2 carriers in the uplink. Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.																																																														



Transmission (H, M, L) channel numbers and frequencies in each LTE band																
LTE Band 2																
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860				
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880				
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900				
LTE Band 4																
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720				
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5				
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745				
LTE Band 5																
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829				
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5				
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844				
LTE Band 7																
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510				
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535				
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560				
LTE Band 12																
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704				
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5				
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711				
LTE Band 13																
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz				Bandwidth 20 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23255		784.5		23280		787	
M	23230		782		23255		784.5		23280		787		23305		789.5	
H	23255		784.5		23280		787		23305		789.5		23330		792	
LTE Band 14																
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz				Bandwidth 20 MHz			
	Channel #		Channel #		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23305		790.5		23330		793		23355		795.5		23380		798	
M	23330		793		23355		795.5		23380		798		23405		800.5	
H	23355		795.5		23380		798		23405		800.5		23430		803	
LTE Band 17																
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz				Bandwidth 20 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23805		711.5		23830		714	
M	23790		710		23815		713		23840		715.5		23865		718	
H	23825		713.5		23850		716		23875		718.5		23900		721	



LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	26765	821.5
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26990	844	26965	841.5
LTE Band 30												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)					
L	27685		2307.5		27710		2310					
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
L	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
H	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 48												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
L	55810	3607	55815	3607.5	55820	3608	55830	3609				
M	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690				
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133297	680.5	133297	680.5	133297	680.5	133297	680.5				
H	133447	695.5	133422	693	133397	690.5	133372	688				



2.4 General 5G NR SAR Test and Reporting Considerations

5G NR Information								
FCC ID	A4RG1MNW							
Equipment Name	Phone							
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz							
Channel Bandwidth	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz 5G NR n12: 5MHz, 10MHz, 15MHz 5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz 5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n30: 5MHz, 10MHz 5G NR n38: 10MHz, 15MHz, 20MHz 5G NR n41: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz 5G NR n48: 10MHz, 15MHz, 20MHz, 40MHz 5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz 5G NR n70: 5MHz, 10MHz, 15MHz 5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n77/78: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz							
SCS	FDD: SCS15KHz, TDD: SCS30KHz							
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM QPSK / 16QAM / 64QAM / 256QAM							
A-MPR (Additional MPR) disabled for SAR Testing?	Yes							
LTE Anchor Bands for n2	LTE B2/4/5/7/12/13/14/30/48/66/71							
LTE Anchor Bands for n5	LTE B2/7/30/48/66							
LTE Anchor Bands for n7	LTE B2/5/12/13/66/71							
LTE Anchor Bands for n12	LTE B2/7/66							
LTE Anchor Bands for n25	LTE B2/12/13/26/48/66							
LTE Anchor Bands for n30	LTE B2/5/12/14/66							
LTE Anchor Bands for n38	LTE B2/4/5/12/66/71							
LTE Anchor Bands for n41	LTE B2/4/5/12/25/26/66/71							
LTE Anchor Bands for n48	LTE B2/66							
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/25/30/48/66/71							
LTE Anchor Bands for n71	LTE B2/7/66							
LTE Anchor Bands for n77	LTE B2/5/7/12/13/14/25/26/30/41/66							
LTE Anchor Bands for n78	LTE B2/4/5/7/12/13/25/38/41/66/71							
NR Band 2								
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900
NR Band 5								
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	165300	826.5	165800	829	166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839



NR Band 7																						
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz								
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)							
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520	505000	2525						
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535						
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	509000	2545						
NR Band 12																						
Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz														
Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)												
L	140300		701.5		140800		704		141300		706.5											
M	141500		707.5		141500		707.5		141500		707.5											
H	142700		713.5		142200		711		141700		708.5											
NR Band 25																						
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz										
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)									
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870								
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5								
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379000	1895								
NR Band 26																						
Bandwidth 5MHz			Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz													
Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)											
L	163300		816.5	163800		819	164300		821.5	164800		824										
M	166300		831.5	166300		831.5	166300		831.5	166300		831.5										
H	169300		846.5	168800		844	168300		841.5	167800		839										
NR Band 30																						
Bandwidth 5MHz					Bandwidth 10MHz																	
Ch. #			Freq. (MHz)		Ch. #			Freq. (MHz)														
L	461500			2307.5		462000			2310													
M	462000			2310																		
H	462500			2312.5																		
NR Band 38																						
Bandwidth 10MHz				Bandwidth 15MHz				Bandwidth 20MHz														
Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)												
L	515004		2575.02		515502		2577.51		516000		2580											
M	519000		2595		519000		2595		519000		2595											
H	522996		2614.98		522498		2612.49		522000		2610											
NR Band 41																						
Bandwidth10MHz		Bandwidth15MHz		Bandwidth20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640
NR Band 48																						
Bandwidth10MHz				Bandwidth 15MHz				Bandwidth20MHz				Bandwidth 40MHz										
Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)								
L	637000		3555		637168		3557.52		637334		3560.01		638000		3570							
M	641666		3624.99		641666		3624.99		641666		3624.99		641666		3624.99							
H	646332		3694.98		646166		3692.49		646000		3690		645332		3679.98							
NR Band 66																						
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz										
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)									
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	346000	1730								
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745								
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352000	1760								



NR Band 70																								
Bandwidth 5MHz						Bandwidth 10MHz						Bandwidth 15MHz												
Ch. #		Freq. (MHz)				Ch. #		Freq. (MHz)				Ch. #		Freq. (MHz)										
L	339500	1697.5				340000		1700				340500		1702.5										
M	340500	1702.5				340500		1702.5																
H	341500	1707.5				341000		1705																
NR Band 71																								
Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz				Bandwidth 20MHz												
Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)										
L	133100	665.5		133600		668		134100		670.5		134600		673										
M	136100	680.5		136100		680.5		136100		680.5		136100		680.5										
H	139100	695.5		138600		693		13810		690.5		137600		688										
NR Band 77																								
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930
NR Band 78																								
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750		
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.50	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		
NR Band 77/78(3450MHz ~ 3550MHz)																								
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495	633332	3499.98
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98		
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		



3. TAS feature for RF Exposure compliance

The FCC RF exposure limit is based on time-averaged RF exposure. Both SAR and PD regulatory specifications are defined over certain measurement duration allowing for time-averaging. The Samsung S.LSI proprietary TAS (Time Average SAR) algorithm has been designed to meet the compliance limits over the required duration, while still allowing dynamic control of transmit power for meeting system performance. Under the control of TAS algorithm, the device can transmit at high power up to Pmax for certain interval, but the average power will be maintained not exceeding the pre-defined averaged level (Plimit), and thus maintain the time-averaged RF exposure compliance

The following table shows Plimit and maximum tune up output power Pmax, for all exposure and transmit transmit conditions (output power index).

Pmax	Maximum Tx power that can be transmitted physically from RFIC for a given RAT
SAR_FCC_limit	SAR limit specified by FCC 1.6 W/kg averaged over 1-gram, for head and body exposure, and 4 W/kg averaged over 10-gram, for extremity exposure
PD_FCC_limit	PD limit specified by FCC, 10 W/m ² averaged over 4 cm ²
Plimit	The time-averaged RF power that corresponds to SAR_target or PD_target.



3.1 SAR Characterization – Power Table

General Note:

1. The P_{limit} values correspond to SAR_{design target}.
2. GSM and WCDMA don't support time average feature of dynamic power varying, the power will be fixed at the static reduce power level at different exposure conditions for RF exposure compliance. For the GSM (TDD) P_{limit} power levels in the table correspond to the burst average power levels which don't account for TX duty cycle.
3. The device additionally support UL MIMO mode on n41/48/77/78
4. LTE and 5GNR TDD: P_{limit} power levels in the table correspond to the time-averaged power levels which accounts for TX duty cycle.
5. Maximum target power, P_{max}, is configured in NV settings in EUT to limit maximum transmitting power. This power is converted into peak power in NV settings for TDD schemes.

<P_{limit} for supported technologies and bands (P_{limit} corresponding to SAR design target)>

Wireless technology/ band (No Accounting duty cycle)	Antenna	Duty cycle	Maximum Power	Head		Hotspot	Body-worn/Extremity		P _{Max} Burst average power (dBm)
			Conditions	Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	
			Index 1	Index 2	Index 3	Index 4	Index 5	Index 6	
P limit									
Burst average power (dBm)									
GSM850 GPRS 1TX	0	12.50%	32.5	34.8	34.1	33.9	35.1	34.4	32.5
GSM850 GPRS 2TX	0	25.00%	31.5	31.8	31.1	30.9	32.1	31.4	31.5
GSM850 GPRS 3TX	0	37.50%	30.5	30.0	29.3	29.1	30.3	29.6	30.5
GSM850 GPRS 4TX	0	50.00%	29.5	28.8	28.1	27.9	29.1	28.4	29.5
GSM850 EDGE 1TX	0	12.50%	27.0	34.8	34.1	33.9	35.1	34.4	27.0
GSM850 EDGE 2TX	0	25.00%	26.5	31.8	31.1	30.9	32.1	31.4	26.5
GSM850 EDGE 3TX	0	37.50%	26.5	30.0	29.3	29.1	30.3	29.6	26.5
GSM850 EDGE 4TX	0	50.00%	24.5	28.8	28.1	27.9	29.1	28.4	24.5
GSM850 GPRS 1TX	1	12.50%	32.1	30.2	29.5	33.9	34.6	33.9	32.1
GSM850 GPRS 2TX	1	25.00%	31.1	27.2	26.5	30.9	31.6	30.9	31.1
GSM850 GPRS 3TX	1	37.50%	30.1	25.4	24.7	29.1	29.8	29.1	30.1
GSM850 GPRS 4TX	1	50.00%	29.1	24.2	23.5	27.9	28.6	27.9	29.1
GSM850 EDGE 1TX	1	12.50%	26.6	30.2	29.5	33.9	34.6	33.9	26.6
GSM850 EDGE 2TX	1	25.00%	26.1	27.2	26.5	30.9	31.6	30.9	26.1
GSM850 EDGE 3TX	1	37.50%	26.1	25.4	24.7	29.1	29.8	29.1	26.1
GSM850 EDGE 4TX	1	50.00%	24.1	24.2	23.5	27.9	28.6	27.9	24.1
GSM1900 GPRS 1TX	0	12.50%	29.2	45.6	44.9	27.5	29.0	28.3	29.2
GSM1900 GPRS 2TX	0	25.00%	27.7	42.6	41.9	24.5	26.0	25.3	27.7
GSM1900 GPRS 3TX	0	37.50%	27.2	40.8	40.1	22.7	24.2	23.5	27.2
GSM1900 GPRS 4TX	0	50.00%	26.2	39.6	38.9	21.5	23.0	22.3	26.2
GSM1900 EDGE 1TX	0	12.50%	24.2	45.6	44.9	27.5	29.0	28.3	24.2
GSM1900 EDGE 2TX	0	25.00%	23.2	42.6	41.9	24.5	26.0	25.3	23.2
GSM1900 EDGE 3TX	0	37.50%	23.2	40.8	40.1	22.7	24.2	23.5	23.2
GSM1900 EDGE 4TX	0	50.00%	22.2	39.6	38.9	21.5	23.0	22.3	22.2
GSM1900 GPRS 1TX	2	12.50%	30.0	35.5	34.8	28.5	29.2	28.5	30.0
GSM1900 GPRS 2TX	2	25.00%	28.5	32.5	31.8	25.5	26.2	25.5	28.5
GSM1900 GPRS 3TX	2	37.50%	28.0	30.7	30.0	23.7	24.4	23.7	28.0
GSM1900 GPRS 4TX	2	50.00%	27.0	29.5	28.8	22.5	23.2	22.5	27.0
GSM1900 EDGE 1TX	2	12.50%	25.0	35.5	34.8	28.5	29.2	28.5	25.0
GSM1900 EDGE 2TX	2	25.00%	24.0	32.5	31.8	25.5	26.2	25.5	24.0
GSM1900 EDGE 3TX	2	37.50%	24.0	30.7	30.0	23.7	24.4	23.7	24.0
GSM1900 EDGE 4TX	2	50.00%	23.0	29.5	28.8	22.5	23.2	22.5	23.0
WCDMA B2	0	100.00%	23.8	35.2	34.5	17.3	19.4	18.7	23.8
WCDMA B2	2	100.00%	24.6	26.4	25.7	19.9	20.6	19.9	24.6
WCDMA B4	0	100.00%	23.8	34.5	33.8	17.6	18.3	17.6	23.8
WCDMA B4	2	100.00%	24.6	27.9	27.2	19.9	20.6	19.9	24.6
WCDMA B5	0	100.00%	24.7	29.4	28.7	25.0	25.7	25.0	24.7
WCDMA B5	1	100.00%	24.3	21.5	20.8	26.8	27.5	26.8	24.3



<P_{limit} for supported technologies and bands (P_{limit} corresponding to SAR design target)>

Wireless technology/ band (Accounting duty cycle)	Antenna	Duty cycle	Maximum Power	Head		Hotspot	Body-worn/Extremity		PMax Time average power (dBm)
			Conditions	Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	
			Index 1	Index 2	Index 3	Index 4	Index 5	Index 6	
			P limit						
LTE B2	1	100.00%	24.6	16.2	15.5	20.0	20.7	20.0	24.6
LTE B2	5	100.00%	23.8	18.2	17.5	20.3	21.0	20.3	23.8
LTE B7	0	100.00%	23.5	29.2	28.5	16.2	20.5	19.8	23.5
LTE B7	2	100.00%	24.5	25.9	25.2	20.6	21.3	20.6	24.5
LTE B12/17	0	100.00%	24.7	30.7	30.0	27.2	28.5	27.8	24.7
LTE B12/17	1	100.00%	24.3	22.0	21.3	27.8	28.5	27.8	24.3
LTE B13	0	100.00%	24.7	30.2	29.5	25.8	26.5	25.8	24.7
LTE B13	1	100.00%	24.3	23.0	22.3	28.5	29.2	28.5	24.3
LTE B14	0	100.00%	24.7	30.1	29.4	25.6	26.3	25.6	24.7
LTE B14	1	100.00%	24.3	22.1	21.4	28.3	29.0	28.3	24.3
LTE B25/2	0	100.00%	23.8	34.2	33.5	16.8	19.1	18.4	23.8
LTE B25/2	2	100.00%	24.6	25.7	25.0	20.2	20.9	20.2	24.6
LTE B26/5	0	100.00%	24.7	29.1	28.4	25.4	26.1	25.4	24.7
LTE B26/5	1	100.00%	24.3	20.7	20.0	26.9	27.6	26.9	24.3
LTE B30	0	100.00%	21.9	33.7	33.0	16.7	19.3	18.6	21.9
LTE B30	2	100.00%	22.2	26.8	26.1	20.0	20.7	20.0	22.2
LTE B41/38 PC3	0	63.30%	21.4	30.2	29.5	15.8	19.6	18.9	21.4
LTE B41/38 PC3	2	63.30%	22.4	26.3	25.6	20.3	21.0	20.3	22.4
LTE B41/38 PC2	0	43.30%	21.4	30.2	29.5	15.8	19.6	18.9	21.4
LTE B41/38 PC2	2	43.30%	22.4	26.3	25.6	20.3	21.0	20.3	22.4
LTE B48 PC3	6	63.30%	19.3	28.8	28.1	17.6	18.3	17.6	19.3
LTE B48 PC3	7	63.30%	21.7	24.5	23.8	20.7	21.4	20.7	21.7
LTE B66/4	0	100.00%	23.8	33.7	33.0	17.0	18.5	17.8	23.8
LTE B66/4	1	100.00%	24.6	17.2	16.5	21.2	21.9	21.2	24.6
LTE B66/4	2	100.00%	24.6	27.5	26.8	20.2	20.9	20.2	24.6
LTE B66/4	5	100.00%	23.8	19.1	18.4	21.0	21.7	21.0	23.8
LTE B71	0	100.00%	24.7	31.3	30.6	26.9	28.3	27.6	24.7
LTE B71	1	100.00%	24.3	22.7	22.0	28.0	28.7	28.0	24.3



<P_{limit} for supported technologies and bands (P_{limit} corresponding to SAR design target)>

Wireless technology/ band (Accounting duty cycle)	Antenna	Duty cycle	Maximum Power Conditions	Head		Hotspot	Body-worn/Extremity		PMax Time average power (dBm)
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	
			Index 1	Index 2	Index 3	Index 4	Index 5	Index 6	
			P limit						
FR1 n2	1	100.00%	24.6	16.4	15.7	20.0	20.8	20.1	24.6
FR1 n2	5	100.00%	23.8	17.3	16.6	20.2	21.6	20.9	23.8
FR1 n7	0	100.00%	23.2	27.8	27.1	17.3	20.8	20.1	23.2
FR1 n7	2	100.00%	24.5	25.5	24.8	21.2	21.9	21.2	24.5
FR1 n12	0	100.00%	24.7	30.8	30.1	26.6	27.3	26.6	24.7
FR1 n12	1	100.00%	24.3	24.4	23.7	28.1	28.8	28.1	24.3
FR1 n25/2	0	100.00%	23.8	33.5	32.8	17.4	19.2	18.5	23.8
FR1 n25/2	2	100.00%	24.6	25.3	24.6	19.8	20.5	19.8	24.6
FR1 n26/5	0	100.00%	24.7	29.2	28.5	26.1	27.4	26.7	24.7
FR1 n26/5	1	100.00%	24.3	21.5	20.8	25.2	25.9	25.2	24.3
FR1 n30	0	100.00%	21.9	28.5	27.8	16.7	19.2	18.5	21.9
FR1 n30	2	100.00%	22.2	24.9	24.2	20.7	21.4	20.7	22.2
FR1 n38 PC3	0	100.00%	23.5	29.7	29.0	17.3	20.9	20.2	23.5
FR1 n38 PC3	1	100.00%	24.5	16.8	16.1	21.4	22.1	21.4	24.5
FR1 n38 PC3	2	100.00%	24.5	26.5	25.8	20.3	21.0	20.3	24.5
FR1 n38 PC3	5	100.00%	23.5	19.6	18.9	20.1	20.8	20.1	23.5
FR1 n41 PC3	0	100.00%	22.0	27.5	26.8	17.3	20.9	20.2	22.0
FR1 n41 PC3	1	100.00%	23.0	16.8	16.1	21.4	22.1	21.4	23.0
FR1 n41 PC3	2	100.00%	23.0	25.5	24.8	20.3	21.0	20.3	23.0
FR1 n41 PC3	5	100.00%	22.0	19.6	18.9	20.1	20.8	20.1	22.0
FR1 n41 PC2	0	50.00%	22.0	27.5	26.8	17.3	20.9	20.2	22.0
FR1 n41 PC2	1	50.00%	23.0	16.8	16.1	21.4	22.1	21.4	23.0
FR1 n41 PC2	2	50.00%	23.0	25.5	24.8	20.3	21.0	20.3	23.0
FR1 n41 PC2	5	50.00%	22.0	19.6	18.9	20.1	20.8	20.1	21.7
FR1 n41 PC1.5	0	25.00%	22.0	27.5	26.8	17.3	20.9	20.2	17.5
FR1 n41 PC1.5	1	25.00%	23.0	16.8	16.1	21.4	22.1	21.4	18.5
FR1 n41 PC1.5	2	25.00%	23.0	25.5	24.8	20.3	21.0	20.3	18.5
FR1 n41 PC1.5	5	25.00%	22.0	19.6	18.9	20.1	20.8	20.1	17.5
FR1 n48	1	100.00%	21.3	17.9	17.2	19.5	20.2	19.5	21.3
FR1 n48	5	100.00%	23.2	20.7	20.0	20.7	21.4	20.7	23.2
FR1 n48	6	100.00%	21.3	27.7	27.0	18.0	18.7	18.0	21.3
FR1 n48	7	100.00%	23.2	26.8	26.1	19.2	19.9	19.2	23.2
FR1 n66	0	100.00%	23.8	31.8	31.1	17.5	18.2	17.5	23.8
FR1 n66	1	100.00%	24.6	17.6	16.9	21.5	22.2	21.5	24.6
FR1 n66	2	100.00%	24.6	27.8	27.1	21.3	22.0	21.3	24.6
FR1 n66	5	100.00%	23.8	18.3	17.6	21.2	21.9	21.2	23.8
FR1 n70	0	100.00%	23.8	53.3	52.6	17.4	18.1	17.4	23.8
FR1 n70	2	100.00%	24.6	30.6	29.9	21.5	22.2	21.5	24.6
FR1 n71	0	100.00%	24.7	32.6	31.9	26.7	27.4	26.7	24.7
FR1 n71	1	100.00%	24.1	24.1	23.4	28.7	29.4	28.7	24.1
FR1 n77 PC3	1	100.00%	23.0	16.5	15.8	19.9	20.6	19.9	23.0
FR1 n77 PC3	5	100.00%	22.5	19.8	19.1	21.8	22.5	21.8	22.5
FR1 n77 PC3	6	100.00%	23.5	27.7	27.0	20.6	21.3	20.6	23.5
FR1 n77 PC3	7	100.00%	22.9	27.9	27.2	23.3	24.6	23.9	22.9
FR1 n77 PC2	1	50.00%	23.0	16.5	15.8	19.9	20.6	19.9	23.0
FR1 n77 PC2	5	50.00%	22.5	19.8	19.1	21.8	22.5	21.8	22.5
FR1 n77 PC2	6	50.00%	23.5	27.7	27.0	20.6	21.3	20.6	23.5
FR1 n77 PC2	7	50.00%	22.9	27.9	27.2	23.3	24.6	23.9	22.4
FR1 n77 PC1.5	1	25.00%	23.0	16.5	15.8	19.9	20.6	19.9	18.5
FR1 n77 PC1.5	5	25.00%	22.5	19.8	19.1	21.8	22.5	21.8	18.0
FR1 n77 PC1.5	6	25.00%	23.5	27.7	27.0	20.6	21.3	20.6	19.0
FR1 n77 PC1.5	7	25.00%	22.9	27.9	27.2	23.3	24.6	23.9	17.9
FR1 n78 PC3	1	100.00%	23.0	16.5	15.8	19.9	20.6	19.9	23.0
FR1 n78 PC3	5	100.00%	21.9	18.5	17.8	20.5	21.2	20.5	21.9
FR1 n78 PC3	6	100.00%	23.0	28.7	28.0	20.6	21.3	20.6	23.0
FR1 n78 PC3	7	100.00%	21.9	28.2	27.5	22.6	23.3	22.6	21.9
FR1 n78 PC2	6	50.00%	23.0	28.7	28.0	20.6	21.3	20.6	23.0
FR1 n78 PC2	7	50.00%	21.9	28.2	27.5	22.6	23.3	22.6	21.9



4. RF Exposure Limits

4.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

4.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.



According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

5. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

6. Specific Absorption Rate (SAR)

6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

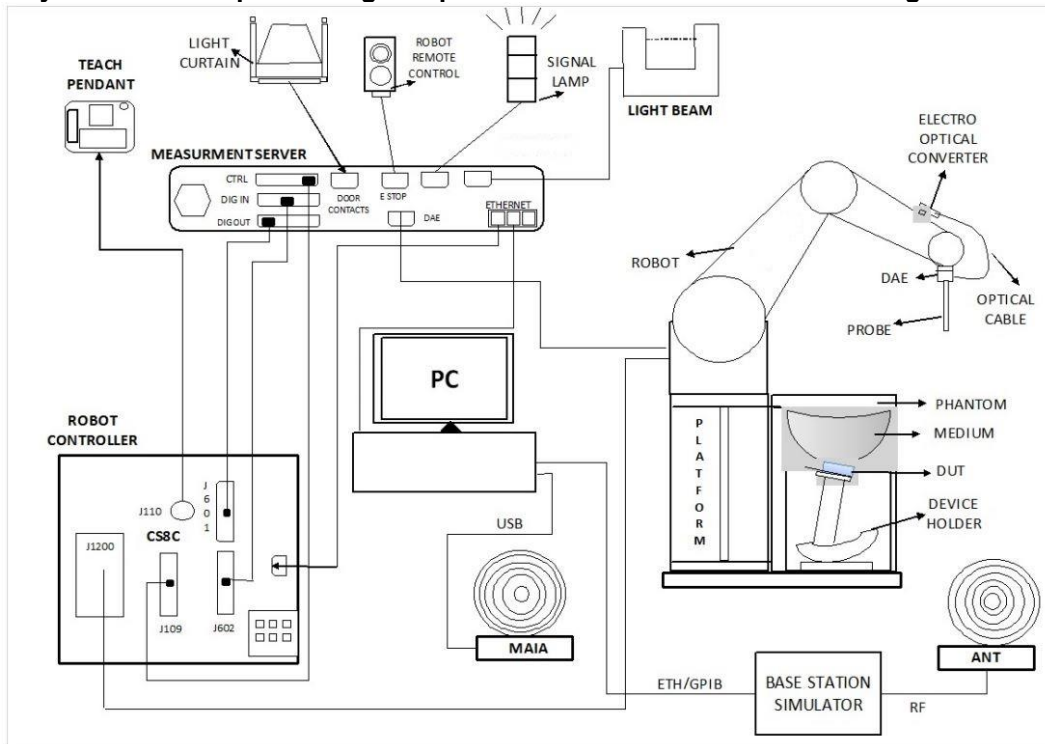
SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

7. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



- The DASY system in SAR Configuration is shown above
- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running windows software and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

7.1 Test Site Location


The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. In system validation list test site number, if the test site number is include in the Wensan Laboratory, that's mean the test data are subcontracted to Sporton International Inc. Wensan Laboratory.

Test Site	EMC & Wireless Communications Laboratory		Wensan Laboratory		
	TW1190		TW3786		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan		
Test Site No.	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY	SAR15-HY
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY


7.2 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG).The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – >100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – >6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically <1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

7.3 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.


The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.1 Photo of DAE

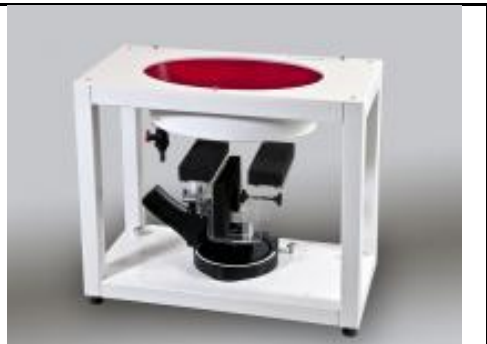
7.4 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

7.5 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

8. Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g



8.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

Table with 3 columns: Parameter, ≤ 3 GHz, > 3 GHz. Rows include: Maximum distance from closest measurement point, Maximum probe angle, and Maximum area scan spatial resolution.

8.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

		≤ 3 GHz	> 3 GHz	
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}, \Delta y_{Zoom}$		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	
<p>Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.</p> <p>* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</p>				

8.5 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.



9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1012	Aug. 18, 2021	Aug. 16, 2023
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1117	Mar. 24, 2022	Mar. 22, 2024
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	4d060	Mar. 24, 2022	Mar. 22, 2024
SPEAG	835MHz System Validation Kit	D835V2	4d167	Nov. 24, 2022	Nov. 23, 2023
SPEAG	1750MHz System Validation Kit	D1750V2	1068	Nov. 21, 2022	Nov. 20, 2023
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d041	Aug. 19, 2021	Aug. 17, 2023
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d093	Mar. 25, 2022	Mar. 23, 2024
SPEAG	2300MHz System Validation Kit ⁽²⁾	D2300V2	1088	Jul. 13, 2021	Jul. 11, 2023
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	736	Aug. 17, 2021	Aug. 15, 2023
SPEAG	2450MHz System Validation Kit	D2450V2	929	Nov. 21, 2022	Nov. 20, 2023
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1008	Aug. 17, 2021	Aug. 15, 2023
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1089	Mar. 24, 2022	Mar. 22, 2024
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1036	Mar. 23, 2022	Mar. 21, 2024
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1022	Jul. 14, 2021	Jul. 12, 2023
SPEAG	3900MHz System Validation Kit ⁽²⁾	D3900V2	1017	Apr. 22, 2022	Apr. 20, 2024
SPEAG	5GHz System Validation Kit	D5GHzV2	1128	Nov. 23, 2022	Nov. 22, 2023
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1171	Apr. 20, 2021	Apr. 17, 2024
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1003	Mar. 15, 2023	Mar. 14, 2024
SPEAG	13MHz System Validation Kit ⁽²⁾	CLA13	1011	Jul. 08, 2020	Jul. 05, 2023
SPEAG	5G Verification Source	30GHz	1009	May. 24, 2022	May. 23, 2023
SPEAG	EUmmWV Probe Tip Protection	EUmmWV3	9424	Mar. 21, 2023	Mar. 20, 2024
SPEAG	Data Acquisition Electronics	DAE4	703	May. 16, 2023	May. 15, 2024
SPEAG	Data Acquisition Electronics	DAE4	778	May. 30, 2022	May. 29, 2023
SPEAG	Data Acquisition Electronics	DAE4	853	Jul. 20, 2022	Jul. 19, 2023
SPEAG	Data Acquisition Electronics	DAE4	854	Aug. 24, 2022	Aug. 23, 2023
SPEAG	Data Acquisition Electronics	DAE4	1512	Mar. 20, 2023	Mar. 19, 2024
SPEAG	Data Acquisition Electronics	DAE4	1694	Nov. 18, 2022	Nov. 17, 2023
SPEAG	Dosimetric E-Field Probe	ES3DV3	3184	Sep. 26, 2022	Sep. 25, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	3642	Apr. 26, 2023	Apr. 25, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	3728	Mar. 22, 2023	Mar. 21, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	3925	Apr. 25, 2023	Apr. 24, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7306	Jul. 28, 2022	Jul. 27, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7351	Jan. 23, 2023	Jan. 22, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7439	Feb. 21, 2023	Feb. 20, 2024
RCPTWN	Thermometer	HTC-1	TM685-1	Jun. 27, 2022	Jun. 26, 2023
RCPTWN	Thermometer	HTC-1	TM560-2	Mar. 21, 2023	Mar. 20, 2024
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Oct. 31, 2022	Oct. 30, 2023
Keysight	Wireless Communication Test Set	E5515C	MY50267236	Mar. 12, 2023	Mar. 11, 2024
R&S	Wideband Radio Communication Tester	CMX500	101931	Jul. 21, 2022	Jul. 20, 2023
R&S	BT Base Station	CBT32	101136	Oct. 25, 2022	Oct. 24, 2023
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Oct. 12, 2022	Oct. 11, 2023
Keysight	ENA Network Analyzer	E5071C	MY46104758	Sep. 22, 2022	Sep. 21, 2023
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 28, 2022	Sep. 27, 2023
SPEAG	Dielectric Probe Kit	DAK-12	1156	Jul. 28, 2022	Jul. 27, 2023
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3796	Jan. 13, 2023	Jan. 12, 2024
Anritsu	Power Meter	ML2495A	1419002	Aug. 16, 2022	Aug. 15, 2023
Anritsu	Power Meter	ML2495A	1804003	Oct. 17, 2022	Oct. 16, 2023
Anritsu	Power Sensor	MA2411B	1911176	Aug. 16, 2022	Aug. 15, 2023
Anritsu	Power Sensor	MA2411B	1726150	Oct. 17, 2022	Oct. 16, 2023
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 21, 2022	Jul. 20, 2023
Anritsu	Spectrum Analyzer	N9010A	MY53470118	Jan. 10, 2023	Jan. 09, 2024
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 14, 2022	Oct. 13, 2023
Mini-Circuits	Power Amplifier	ZVE-8G+	479102029	Sep. 15, 2022	Sep. 14, 2023
ATM	Dual Directional Coupler	C122H-10	P610410z-02		Note 1
Warison	Directional Coupler	WC0U-10-50S-10	WR889BMC4B1		Note 1
Woken	Attenuator 1	WK0602-XX	N/A		Note 1
PE	Attenuator 2	PE7005-10	N/A		Note 1
PE	Attenuator 3	PE7005-3	N/A		Note 1

General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.



10. System Verification

10.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within ± 2°C of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	22.6	0.882	42.900	0.89	41.90	-0.90	2.39	±5	2023/4/14
750	22.3	0.887	43.100	0.89	41.90	-0.34	2.86	±5	2023/4/22
750	22.3	0.877	43.200	0.89	41.90	-1.46	3.10	±5	2023/4/23
750	22.4	0.884	43.200	0.89	41.90	-0.67	3.10	±5	2023/4/24
835	22.4	0.925	42.800	0.90	41.50	2.78	3.13	±5	2023/4/12
835	22.5	0.909	43.000	0.90	41.50	1.00	3.61	±5	2023/4/25
835	22.5	0.909	43.000	0.90	41.50	1.00	3.61	±5	2023/4/25
835	22.5	0.919	42.700	0.90	41.50	2.11	2.89	±5	2023/5/11
1750	22.5	1.340	39.900	1.37	40.10	-2.19	-0.50	±5	2023/4/15
1750	22.5	1.360	40.100	1.37	40.10	-0.73	0.00	±5	2023/4/29
1750	22.4	1.360	39.800	1.37	40.10	-0.73	-0.75	±5	2023/5/6
1750	22.6	1.350	40.000	1.37	40.10	-1.46	-0.25	±5	2023/5/9
1750	22.6	1.370	40.200	1.37	40.10	0.00	0.25	±5	2023/5/10
1900	22.5	1.420	39.900	1.40	40.00	1.43	-0.25	±5	2023/4/16
1900	22.4	1.400	39.800	1.40	40.00	0.00	-0.50	±5	2023/4/26
1900	22.5	1.410	39.800	1.40	40.00	0.71	-0.50	±5	2023/4/30
1900	22.5	1.440	40.300	1.40	40.00	2.86	0.75	±5	2023/5/7
1900	22.5	1.430	40.000	1.40	40.00	2.14	0.00	±5	2023/5/8
2300	22.7	1.680	39.400	1.67	39.50	0.60	-0.25	±5	2023/4/20
2300	22.5	1.650	39.000	1.67	39.50	-1.20	-1.27	±5	2023/5/5
2600	22.7	2.020	38.200	1.96	39.00	3.06	-2.05	±5	2023/4/21
2600	22.7	2.010	38.100	1.96	39.00	2.55	-2.31	±5	2023/4/27
2600	22.8	2.000	38.100	1.96	39.00	2.04	-2.31	±5	2023/4/28
2600	22.8	2.000	38.100	1.96	39.00	2.04	-2.31	±5	2023/4/28
2600	22.3	2.020	38.100	1.96	39.00	3.06	-2.31	±5	2023/5/1
2600	22.4	2.010	38.000	1.96	39.00	2.55	-2.56	±5	2023/5/2
3500	22.7	2.910	37.900	2.91	37.90	0.00	0.00	±5	2023/5/3
3500	22.8	2.890	37.800	2.91	37.90	-0.69	-0.26	±5	2023/5/4
3700	22.7	3.120	38.000	3.12	37.70	0.00	0.80	±5	2023/5/3
3700	22.8	3.080	37.500	3.12	37.70	-1.28	-0.53	±5	2023/5/4



Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	22.6	0.895	43.500	0.89	41.90	0.56	3.82	±5	2023/5/8
750	22.5	0.903	43.800	0.89	41.90	1.46	4.53	±5	2023/5/28
835	22.3	0.926	42.900	0.90	41.50	2.89	3.37	±5	2023/5/5
1750	22.3	1.380	40.700	1.37	40.10	0.73	1.50	±5	2023/5/23
1750	22.4	1.360	40.700	1.37	40.10	-0.73	1.50	±5	2023/5/24
1750	22.6	1.380	40.800	1.37	40.10	0.73	1.75	±5	2023/5/25
1750	22.6	1.350	40.400	1.37	40.10	-1.46	0.75	±5	2023/5/26
1750	22.5	1.400	40.700	1.37	40.10	2.19	1.50	±5	2023/5/27
1900	22.2	1.430	39.300	1.40	40.00	2.14	-1.75	±5	2023/5/1
1900	22.4	1.440	39.100	1.40	40.00	2.86	-2.25	±5	2023/5/2
1900	22.3	1.460	40.900	1.40	40.00	4.29	2.25	±5	2023/5/3
1900	22.5	1.430	39.100	1.40	40.00	2.14	-2.25	±5	2023/5/4
2300	22.3	1.600	39.700	1.67	39.50	-4.19	0.51	±5	2023/5/9
2300	22.5	1.640	40.500	1.67	39.50	-1.80	2.53	±5	2023/5/10
2600	22.6	1.930	39.000	1.96	39.00	-1.53	0.00	±5	2023/5/6
2600	22.6	1.970	39.500	1.96	39.00	0.51	1.28	±5	2023/5/7
2600	22.2	1.950	39.400	1.96	39.00	-0.51	1.03	±5	2023/5/11
2600	22.5	1.970	39.200	1.96	39.00	0.51	0.51	±5	2023/5/12
2600	22.4	2.020	40.000	1.96	39.00	3.06	2.56	±5	2023/5/15
2600	22.7	1.970	39.600	1.96	39.00	0.51	1.54	±5	2023/5/16
2600	22.1	1.920	38.600	1.96	39.00	-2.04	-1.03	±5	2023/5/17
2600	22.2	1.950	39.300	1.96	39.00	-0.51	0.77	±5	2023/5/18
3500	22.7	2.920	38.000	2.91	37.90	0.34	0.26	±5	2023/5/29
3500	22.8	2.960	38.100	2.91	37.90	1.72	0.53	±5	2023/5/30
3500	22.4	2.990	38.400	2.91	37.90	2.75	1.32	±5	2023/5/31
3500	22.5	3.000	38.700	2.91	37.90	3.09	2.11	±5	2023/6/1
3500	22.6	2.920	38.100	2.91	37.90	0.34	0.53	±5	2023/6/2
3500	22.3	3.020	38.200	2.91	37.90	3.78	0.79	±5	2023/6/3
3500	22.9	2.870	37.500	2.91	37.90	-1.37	-1.06	±5	2023/6/4
3500	22.8	2.930	37.400	2.91	37.90	0.69	-1.32	±5	2023/6/5
3500	22.7	2.860	37.100	2.91	37.90	-1.72	-2.11	±5	2023/6/6
3500	22.5	2.880	37.200	2.91	37.90	-1.03	-1.85	±5	2023/6/7
3500	22.6	2.85	37.1	2.91	37.90	-2.06	-2.11	±5	2023/6/8
3500	22.4	2.89	37.3	2.91	37.90	-0.69	-1.58	±5	2023/6/9
3700	22.7	3.12	37.8	3.12	37.70	0.00	0.27	±5	2023/5/29
3700	22.8	3.2	37.5	3.12	37.70	2.56	-0.53	±5	2023/5/30
3700	22.4	3.21	38.2	3.12	37.70	2.88	1.33	±5	2023/5/31
3700	22.5	3.19	38.4	3.12	37.70	2.24	1.86	±5	2023/6/1
3700	22.6	3.16	37.5	3.12	37.70	1.28	-0.53	±5	2023/6/2
3700	22.3	3.26	37.6	3.12	37.70	4.49	-0.27	±5	2023/6/3
3700	22.9	3.11	36.9	3.12	37.70	-0.32	-2.12	±5	2023/6/4
3700	22.8	3.11	37.1	3.12	37.70	-0.32	-1.59	±5	2023/6/5
3700	22.7	3.04	36.8	3.12	37.70	-2.56	-2.39	±5	2023/6/6
3700	22.5	3.06	36.9	3.12	37.70	-1.92	-2.12	±5	2023/6/7
3700	22.6	3.03	36.8	3.12	37.70	-2.88	-2.39	±5	2023/6/8
3700	22.4	3.07	37	3.12	37.70	-1.60	-1.86	±5	2023/6/9
3900	22.7	3.33	37.6	3.33	37.51	0.00	0.24	±5	2023/5/29
3900	22.8	3.34	37.8	3.33	37.51	0.30	0.77	±5	2023/5/30
3900	22.4	3.42	38	3.33	37.51	2.70	1.31	±5	2023/5/31
3900	22.5	3.39	38.1	3.33	37.51	1.80	1.57	±5	2023/6/1
3900	22.6	3.29	37.8	3.33	37.51	-1.20	0.77	±5	2023/6/2
3900	22.3	3.38	38	3.33	37.51	1.50	1.31	±5	2023/6/3
3900	22.9	3.24	37.2	3.33	37.51	-2.70	-0.83	±5	2023/6/4
3900	22.8	3.31	36.9	3.33	37.51	-0.60	-1.63	±5	2023/6/5
13	22.5	0.757	53.6	0.75	55.00	0.93	-2.55	±5	2023/4/18



Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
2450	22.6	1.81	38.7	1.80	39.20	0.56	-1.28	±5	2023/4/20
2450	22.4	1.8	39.6	1.80	39.20	0.00	1.02	±5	2023/4/25
2450	22.6	1.81	39.8	1.80	39.20	0.56	1.53	±5	2023/4/26
2450	22.5	1.82	39.9	1.80	39.20	1.11	1.79	±5	2023/4/30
5250	22.5	4.69	35.9	4.71	35.95	-0.42	-0.14	±5	2023/4/22
5250	22.5	4.68	35.8	4.71	35.95	-0.64	-0.42	±5	2023/4/23
5250	22.5	4.7	35.9	4.71	35.95	-0.21	-0.14	±5	2023/4/27
5250	22.7	4.61	35.9	4.71	35.95	-2.12	-0.14	±5	2023/4/29
5600	22.5	5.09	35.3	5.07	35.50	0.39	-0.56	±5	2023/4/22
5600	22.5	5.08	35.2	5.07	35.50	0.20	-0.85	±5	2023/4/23
5600	22.5	5.1	35.3	5.07	35.50	0.59	-0.56	±5	2023/4/27
5600	22.7	4.95	35.4	5.07	35.50	-2.37	-0.28	±5	2023/4/29
5600	22.3	5.05	35	5.07	35.50	-0.39	-1.41	±5	2023/5/1
5750	22.5	5.28	35	5.22	35.35	1.15	-0.99	±5	2023/4/22
5750	22.5	5.26	34.9	5.22	35.35	0.77	-1.27	±5	2023/4/23
5750	22.7	5.13	35.2	5.22	35.35	-1.72	-0.42	±5	2023/4/29
5750	22.3	5.24	34.6	5.22	35.35	0.38	-2.12	±5	2023/5/1
5850	22.6	5.46	35	5.32	35.25	2.63	-0.71	±5	2023/4/28
6500	22.6	5.97	35.2	6.07	34.50	-1.65	2.03	±5	2023/4/24
1900	22.5	1.414	40.185	1.40	40.00	1.00	0.46	±5	2023/8/15
2450	22.7	1.818	39.796	1.80	39.20	1.00	1.52	±5	2023/8/15
2600	22.5	1.962	38.605	1.96	39.00	0.10	-1.01	±5	2023/8/15
5750	22.7	5.304	36.004	5.22	35.35	1.61	1.85	±5	2023/8/15



10.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR04	2023/4/14	750	50	D750V3-1117	EX3DV4 - SN7351	DAE4 Sn778	0.418	8.520	8.36	-1.88	0.280	5.600	5.6	0.00
SAR04	2023/4/22	750	50	D750V3-1117	EX3DV4 - SN7351	DAE4 Sn778	0.415	8.520	8.3	-2.58	0.278	5.600	5.56	-0.71
SAR04	2023/4/23	750	50	D750V3-1117	EX3DV4 - SN7351	DAE4 Sn778	0.414	8.520	8.28	-2.82	0.277	5.600	5.54	-1.07
SAR04	2023/4/24	750	50	D750V3-1117	EX3DV4 - SN7351	DAE4 Sn778	0.420	8.520	8.4	-1.41	0.281	5.600	5.62	0.36
SAR04	2023/4/12	835	50	D835V2-4d167	EX3DV4 - SN7351	DAE4 Sn778	0.520	9.800	10.4	6.12	0.345	6.380	6.9	8.15
SAR04	2023/4/25	835	50	D835V2-4d060	EX3DV4 - SN7351	DAE4 Sn778	0.514	9.730	10.28	5.65	0.341	6.390	6.82	6.73
SAR06	2023/4/25	835	50	D835V2-4d060	EX3DV4 - SN3925	DAE4 Sn853	0.496	9.730	9.92	1.95	0.327	6.390	6.54	2.35
SAR06	2023/5/11	835	50	D835V2-4d060	EX3DV4 - SN3925	DAE4 Sn853	0.502	9.730	10.04	3.19	0.328	6.390	6.56	2.66
SAR04	2023/4/15	1750	50	D1750V2-1068	EX3DV4 - SN7351	DAE4 Sn778	1.720	36.700	34.4	-6.27	0.905	19.300	18.1	-6.22
SAR04	2023/4/29	1750	50	D1750V2-1068	EX3DV4 - SN7351	DAE4 Sn778	1.730	36.700	34.6	-5.72	0.923	19.300	18.46	-4.35
SAR06	2023/5/6	1750	50	D1750V2-1068	EX3DV4 - SN3925	DAE4 Sn853	1.900	36.700	38	3.54	1.020	19.300	20.4	5.70
SAR06	2023/5/9	1750	50	D1750V2-1068	EX3DV4 - SN3925	DAE4 Sn853	1.850	36.700	37	0.82	0.993	19.300	19.86	2.90
SAR06	2023/5/10	1750	50	D1750V2-1068	EX3DV4 - SN3925	DAE4 Sn853	1.800	36.700	36	-1.91	0.968	19.300	19.36	0.31
SAR04	2023/4/16	1900	50	D1900V2-5d041	EX3DV4 - SN7351	DAE4 Sn778	1.980	40.600	39.6	-2.46	1.040	21.100	20.8	-1.42
SAR04	2023/4/26	1900	50	D1900V2-5d041	EX3DV4 - SN7351	DAE4 Sn778	1.980	40.600	39.6	-2.46	1.040	21.100	20.8	-1.42
SAR04	2023/4/30	1900	50	D1900V2-5d041	EX3DV4 - SN7351	DAE4 Sn778	1.870	40.600	37.4	-7.88	0.991	21.100	19.82	-6.07
SAR06	2023/5/7	1900	50	D1900V2-5d041	EX3DV4 - SN3925	DAE4 Sn853	2.020	40.600	40.4	-0.49	1.060	21.100	21.2	0.47
SAR06	2023/5/8	1900	50	D1900V2-5d041	EX3DV4 - SN3925	DAE4 Sn853	2.040	40.600	40.8	0.49	1.070	21.100	21.4	1.42
SAR04	2023/4/20	2300	50	D2300V2-1088	EX3DV4 - SN7351	DAE4 Sn778	2.330	49.700	46.6	-6.24	1.120	24.100	22.4	-7.05
SAR04	2023/5/5	2300	50	D2300V2-1088	EX3DV4 - SN7351	DAE4 Sn778	2.410	49.700	48.2	-3.02	1.160	24.100	23.2	-3.73
SAR04	2023/4/21	2600	50	D2600V2-1008	EX3DV4 - SN7351	DAE4 Sn778	2.710	58.000	54.2	-6.55	1.220	25.800	24.4	-5.43
SAR04	2023/4/27	2600	50	D2600V2-1008	EX3DV4 - SN7351	DAE4 Sn778	2.680	58.000	53.6	-7.59	1.190	25.800	23.8	-7.75
SAR06	2023/4/28	2600	50	D2600V2-1008	EX3DV4 - SN3925	DAE4 Sn853	2.880	58.000	57.6	-0.69	1.310	25.800	26.2	1.55
SAR04	2023/4/28	2600	50	D2600V2-1008	EX3DV4 - SN7351	DAE4 Sn778	2.680	58.000	53.6	-7.59	1.210	25.800	24.2	-6.20
SAR04	2023/5/1	2600	50	D2600V2-1008	EX3DV4 - SN7351	DAE4 Sn778	2.720	58.000	54.4	-6.21	1.190	25.800	23.8	-7.75
SAR06	2023/5/2	2600	50	D2600V2-1008	EX3DV4 - SN3925	DAE4 Sn853	2.910	58.000	58.2	0.34	1.320	25.800	26.4	2.33
SAR06	2023/5/3	3500	50	D3500V2-1036	EX3DV4 - SN3925	DAE4 Sn853	3.530	67.400	70.6	4.75	1.370	25.100	27.4	9.16
SAR06	2023/5/4	3500	50	D3500V2-1036	EX3DV4 - SN3925	DAE4 Sn853	3.510	67.400	70.2	4.15	1.360	25.100	27.2	8.37
SAR06	2023/5/3	3700	50	D3700V2-1022	EX3DV4 - SN3925	DAE4 Sn853	3.500	68.200	70	2.64	1.330	24.700	26.6	7.69
SAR06	2023/5/4	3700	50	D3700V2-1022	EX3DV4 - SN3925	DAE4 Sn853	3.480	68.200	69.6	2.05	1.320	24.700	26.4	6.88



FCC SAR TEST REPORT

Report No. : FA2D0206-01F

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR01	2023/5/8	750	250	D750V3-1012	EX3DV4 - SN7439	DAE4 Sn854	2.090	8.560	8.36	-2.34	1.360	5.560	5.44	-2.16
SAR01	2023/5/28	750	250	D750V3-1012	EX3DV4 - SN7439	DAE4 Sn854	2.200	8.560	8.8	2.80	1.420	5.560	5.68	2.16
SAR01	2023/5/5	835	100	D835V2-4d060	EX3DV4 - SN7439	DAE4 Sn854	0.968	9.730	9.68	-0.51	0.629	6.390	6.29	-1.56
SAR01	2023/5/23	1750	250	D1750V2-1068	EX3DV4 - SN7439	DAE4 Sn854	9.660	36.700	38.64	5.29	5.090	19.300	20.36	5.49
SAR01	2023/5/24	1750	250	D1750V2-1068	EX3DV4 - SN7439	DAE4 Sn854	9.780	36.700	39.12	6.59	5.150	19.300	20.6	6.74
SAR01	2023/5/25	1750	250	D1750V2-1068	EX3DV4 - SN7439	DAE4 Sn854	9.370	36.700	37.48	2.13	4.930	19.300	19.72	2.18
SAR01	2023/5/26	1750	250	D1750V2-1068	EX3DV4 - SN7439	DAE4 Sn854	9.510	36.700	38.04	3.65	5.000	19.300	20	3.63
SAR01	2023/5/27	1750	250	D1750V2-1068	EX3DV4 - SN7439	DAE4 Sn854	9.940	36.700	39.76	8.34	5.240	19.300	20.96	8.60
SAR01	2023/5/1	1900	100	D1900V2-5d093	EX3DV4 - SN7439	DAE4 Sn854	4.350	39.900	43.5	9.02	2.230	20.700	22.3	7.73
SAR01	2023/5/2	1900	100	D1900V2-5d093	EX3DV4 - SN7439	DAE4 Sn854	4.190	39.900	41.9	5.01	2.150	20.700	21.5	3.86
SAR01	2023/5/3	1900	100	D1900V2-5d093	EX3DV4 - SN7439	DAE4 Sn854	4.370	39.900	43.7	9.52	2.240	20.700	22.4	8.21
SAR01	2023/5/4	1900	100	D1900V2-5d093	EX3DV4 - SN7439	DAE4 Sn854	4.240	39.900	42.4	6.27	2.170	20.700	21.7	4.83
SAR01	2023/5/9	2300	100	D2300V2-1088	EX3DV4 - SN7439	DAE4 Sn854	4.870	49.700	48.7	-2.01	2.360	24.100	23.6	-2.07
SAR01	2023/5/10	2300	100	D2300V2-1088	EX3DV4 - SN7439	DAE4 Sn854	4.860	49.700	48.6	-2.21	2.350	24.100	23.5	-2.49
SAR01	2023/5/6	2600	100	D2600V2-1089	EX3DV4 - SN7439	DAE4 Sn854	5.890	55.400	58.9	6.32	2.630	24.600	26.3	6.91
SAR01	2023/5/7	2600	100	D2600V2-1089	EX3DV4 - SN7439	DAE4 Sn854	5.710	55.400	57.1	3.07	2.550	24.600	25.5	3.66
SAR01	2023/5/11	2600	100	D2600V2-1089	EX3DV4 - SN7439	DAE4 Sn854	5.910	55.400	59.1	6.68	2.630	24.600	26.3	6.91
SAR01	2023/5/12	2600	100	D2600V2-1089	EX3DV4 - SN7439	DAE4 Sn854	5.840	55.400	58.4	5.42	2.600	24.600	26	5.69
SAR01	2023/5/15	2600	100	D2600V2-1089	EX3DV4 - SN7439	DAE4 Sn854	5.550	55.400	55.5	0.18	2.470	24.600	24.7	0.41
SAR01	2023/5/16	2600	100	D2600V2-1089	EX3DV4 - SN7439	DAE4 Sn854	5.130	55.400	51.3	-7.40	2.280	24.600	22.8	-7.32
SAR01	2023/5/17	2600	100	D2600V2-1089	EX3DV4 - SN7439	DAE4 Sn854	5.430	55.400	54.3	-1.99	2.420	24.600	24.2	-1.63
SAR01	2023/5/18	2600	100	D2600V2-1089	EX3DV4 - SN7439	DAE4 Sn854	5.510	55.400	55.1	-0.54	2.460	24.600	24.6	0.00
SAR10	2023/5/29	3500	100	D3500V2-1036	EX3DV4 - SN3642	DAE4 Sn1694	6.830	67.400	68.3	1.34	2.640	25.100	26.4	5.18
SAR10	2023/5/30	3500	100	D3500V2-1036	EX3DV4 - SN3642	DAE4 Sn1694	7.020	67.400	70.2	4.15	2.710	25.100	27.1	7.97
SAR10	2023/5/31	3500	100	D3500V2-1036	EX3DV4 - SN3642	DAE4 Sn1694	7.070	67.400	70.7	4.90	2.730	25.100	27.3	8.76
SAR10	2023/6/1	3500	100	D3500V2-1036	EX3DV4 - SN3642	DAE4 Sn1694	7.090	67.400	70.9	5.19	2.740	25.100	27.4	9.16
SAR10	2023/6/2	3500	100	D3500V2-1036	EX3DV4 - SN3642	DAE4 Sn1694	6.940	67.400	69.4	2.97	2.680	25.100	26.8	6.77
SAR10	2023/6/3	3500	100	D3500V2-1036	EX3DV4 - SN3642	DAE4 Sn1694	7.090	67.400	70.9	5.19	2.740	25.100	27.4	9.16
SAR10	2023/6/4	3500	100	D3500V2-1036	EX3DV4 - SN3642	DAE4 Sn1694	6.780	67.400	67.8	0.59	2.630	25.100	26.3	4.78
SAR10	2023/6/5	3500	100	D3500V2-1036	EX3DV4 - SN3642	DAE4 Sn1694	6.910	67.400	69.1	2.52	2.670	25.100	26.7	6.37
SAR05	2023/6/6	3500	100	D3500V2-1036	EX3DV4 - SN7306	DAE4 Sn1694	6.870	67.400	68.7	1.93	2.690	25.100	26.9	7.17
SAR05	2023/6/7	3500	100	D3500V2-1036	EX3DV4 - SN7306	DAE4 Sn1694	6.940	67.400	69.4	2.97	2.710	25.100	27.1	7.97
SAR05	2023/6/8	3500	100	D3500V2-1036	EX3DV4 - SN7306	DAE4 Sn1694	6.800	67.400	68	0.89	2.660	25.100	26.6	5.98
SAR05	2023/6/9	3500	100	D3500V2-1036	EX3DV4 - SN7306	DAE4 Sn1694	6.870	67.400	68.7	1.93	2.690	25.100	26.9	7.17
SAR10	2023/5/29	3700	100	D3700V2-1022	EX3DV4 - SN3642	DAE4 Sn1694	6.680	68.200	66.8	-2.05	2.510	24.700	25.1	1.62
SAR10	2023/5/30	3700	100	D3700V2-1022	EX3DV4 - SN3642	DAE4 Sn1694	6.780	68.200	67.8	-0.59	2.550	24.700	25.5	3.24
SAR10	2023/5/31	3700	100	D3700V2-1022	EX3DV4 - SN3642	DAE4 Sn1694	6.740	68.200	67.4	-1.17	2.540	24.700	25.4	2.83
SAR10	2023/6/1	3700	100	D3700V2-1022	EX3DV4 - SN3642	DAE4 Sn1694	6.660	68.200	66.6	-2.35	2.510	24.700	25.1	1.62
SAR10	2023/6/2	3700	100	D3700V2-1022	EX3DV4 - SN3642	DAE4 Sn1694	6.640	68.200	66.4	-2.64	2.500	24.700	25	1.21
SAR10	2023/6/3	3700	100	D3700V2-1022	EX3DV4 - SN3642	DAE4 Sn1694	6.820	68.200	68.2	0.00	2.570	24.700	25.7	4.05
SAR10	2023/6/4	3700	100	D3700V2-1022	EX3DV4 - SN3642	DAE4 Sn1694	6.500	68.200	65	-4.69	2.450	24.700	24.5	-0.81
SAR10	2023/6/5	3700	100	D3700V2-1022	EX3DV4 - SN3642	DAE4 Sn1694	6.550	68.200	65.5	-3.96	2.460	24.700	24.6	-0.40
SAR05	2023/6/6	3700	100	D3700V2-1022	EX3DV4 - SN7306	DAE4 Sn1694	6.990	68.200	69.9	2.49	2.660	24.700	26.6	7.69
SAR05	2023/6/7	3700	100	D3700V2-1022	EX3DV4 - SN7306	DAE4 Sn1694	7.050	68.200	70.5	3.37	2.690	24.700	26.9	8.91
SAR05	2023/6/8	3700	100	D3700V2-1022	EX3DV4 - SN7306	DAE4 Sn1694	6.950	68.200	69.5	1.91	2.650	24.700	26.5	7.29
SAR05	2023/6/9	3700	100	D3700V2-1022	EX3DV4 - SN7306	DAE4 Sn1694	7.020	68.200	70.2	2.93	2.670	24.700	26.7	8.10
SAR10	2023/5/29	3900	100	D3900V2-1017	EX3DV4 - SN3642	DAE4 Sn1694	6.930	68.700	69.3	0.87	2.550	23.900	25.5	6.69
SAR10	2023/5/30	3900	100	D3900V2-1017	EX3DV4 - SN3642	DAE4 Sn1694	7.020	68.700	70.2	2.18	2.580	23.900	25.8	7.95
SAR10	2023/5/31	3900	100	D3900V2-1017	EX3DV4 - SN3642	DAE4 Sn1694	7.140	68.700	71.4	3.93	2.610	23.900	26.1	9.21
SAR10	2023/6/1	3900	100	D3900V2-1017	EX3DV4 - SN3642	DAE4 Sn1694	7.000	68.700	70	1.89	2.570	23.900	25.7	7.53
SAR10	2023/6/2	3900	100	D3900V2-1017	EX3DV4 - SN3642	DAE4 Sn1694	6.780	68.700	67.8	-1.31	2.500	23.900	25	4.60
SAR10	2023/6/3	3900	100	D3900V2-1017	EX3DV4 - SN3642	DAE4 Sn1694	6.550	68.700	65.5	-4.66	2.410	23.900	24.1	0.84
SAR10	2023/6/4	3900	100	D3900V2-1017	EX3DV4 - SN3642	DAE4 Sn1694	6.560	68.700	65.6	-4.51	2.410	23.900	24.1	0.84
SAR10	2023/6/5	3900	100	D3900V2-1017	EX3DV4 - SN3642	DAE4 Sn1694	6.890	68.700	68.9	0.29	2.540	23.900	25.4	6.28
SAR05	2023/4/18	13	250	CLA13-1011	EX3DV4 - SN7306	DAE4 Sn1694	0.147	0.555	0.588	5.00	0.091	0.343	0.364	7.06

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR05	2023/4/20	2450	50	D2450V2-736	EX3DV4 - SN7306	DAE4 Sn1694	2.600	54.200	52	-4.06	1.210	25.300	24.2	-4.35
SAR05	2023/4/25	2450	50	D2450V2-736	EX3DV4 - SN7306	DAE4 Sn1694	2.560	54.200	51.2	-5.54	1.190	25.300	23.8	-5.93
SAR05	2023/4/26	2450	50	D2450V2-736	EX3DV4 - SN7306	DAE4 Sn1694	2.590	54.200	51.8	-4.43	1.210	25.300	24.2	-4.35
SAR05	2023/4/30	2450	50	D2450V2-736	EX3DV4 - SN7306	DAE4 Sn1694	2.620	54.200	52.4	-3.32	1.230	25.300	24.6	-2.77
SAR05	2023/4/22	5250	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	3.700	80.300	74	-7.85	1.070	23.000	21.4	-6.96
SAR05	2023/4/23	5250	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	3.680	80.300	73.6	-8.34	1.060	23.000	21.2	-7.83
SAR05	2023/4/27	5250	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	3.900	80.300	78	-2.86	1.130	23.000	22.6	-1.74
SAR05	2023/4/29	5250	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	3.830	80.300	76.6	-4.61	1.110	23.000	22.2	-3.48
SAR05	2023/4/22	5600	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	4.150	83.400	83	-0.48	1.190	23.700	23.8	0.42
SAR05	2023/4/23	5600	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	4.140	83.400	82.8	-0.72	1.180	23.700	23.6	-0.42
SAR05	2023/4/27	5600	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	4.350	83.400	87	4.32	1.240	23.700	24.8	4.64
SAR05	2023/4/29	5600	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	4.230	83.400	84.6	1.44	1.200	23.700	24	1.27
SAR05	2023/5/1	5600	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	4.300	83.400	86	3.12	1.230	23.700	24.6	3.80
SAR05	2023/4/22	5750	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	3.740	80.400	74.8	-6.97	1.070	22.800	21.4	-6.14
SAR05	2023/4/23	5750	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	3.730	80.400	74.6	-7.21	1.060	22.800	21.2	-7.02
SAR05	2023/4/29	5750	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	3.800	80.400	76	-5.47	1.090	22.800	21.8	-4.39
SAR05	2023/5/1	5750	50	D5GHzV2-1171	EX3DV4 - SN7306	DAE4 Sn1694	3.880	80.400	77.6	-3.48	1.120	22.800	22.4	-1.75
SAR03	2023/4/28	5850	50	D5GHzV2-1171	EX3DV4 - SN3728	DAE4 Sn1512	4.220	82.300	84.4	2.55	1.200	23.100	24	3.90
SAR05	2023/4/24	6500	100	D6.5GHzV2-1003	EX3DV4 - SN7306	DAE4 Sn1694	29.600	297.000	296	-0.34	5.540	54.500	55.4	1.65
SAR04	2023/8/15	1900	50	D1900V2-5d093	ES3DV3 - SN3184	DAE4 Sn703	1.950	39.900	39	-2.26				
SAR06	2023/8/15	2450	50	D2450V2-929	EX3DV4 - SN3925	DAE4 Sn1512	2.620	52.400	52.4	0.00				
SAR04	2023/8/15	2600	50	D2600V2-1008	ES3DV3 - SN3184	DAE4 Sn703	2.850	58.000	57	-1.72				
SAR06	2023/8/15	5750	100	D5GHzV2-1128	EX3DV4 - SN3925	DAE4 Sn1512	7.580	79.300	75.8	-4.41				

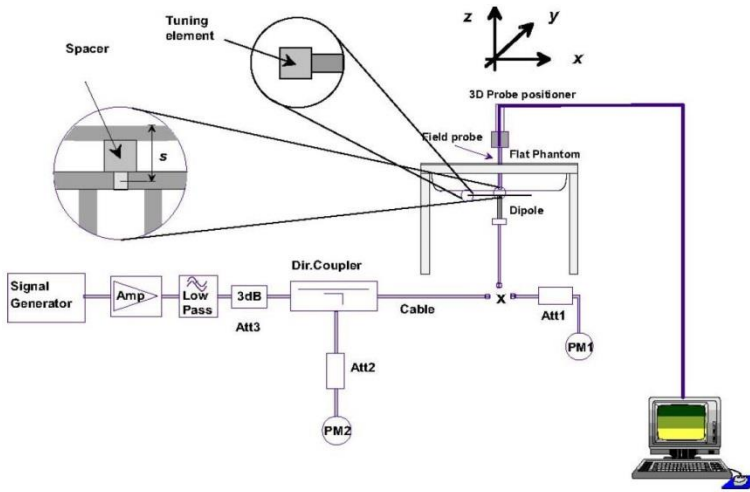


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

10.3 PD System Performance Check Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes

Test Location	Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Measured 4 cm ² (W/m ²)	Targeted 4 cm ² (W/m ²)	Deviation (dB)	Date
SAR01-HY	10G	10GHz_1020	EUmmWV3 - SN9424	Sn854	10	49.5	54.9	-0.45	2023/4/30

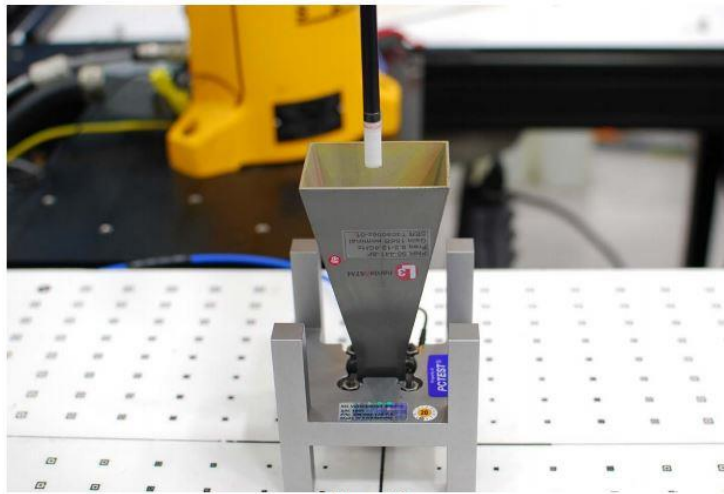


Figure 4-3
System Verification Setup Photo

System Performance Check Setup

11. RF Exposure Positions

11.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M,” the left ear reference point (ERP) is marked “LE,” and the right ERP is marked “RE.” Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

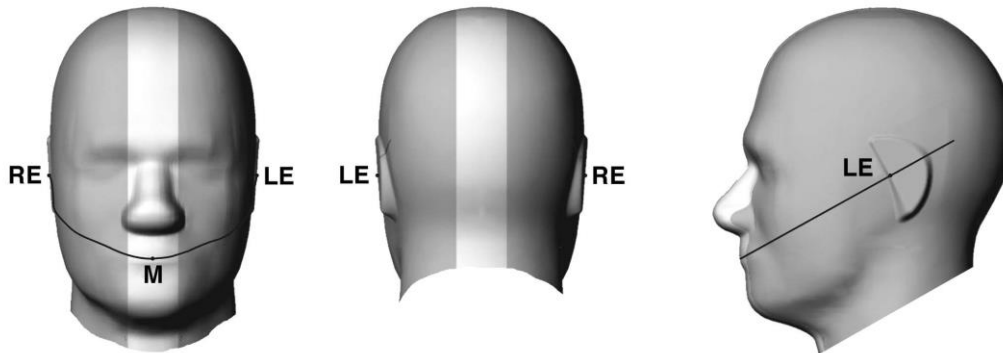


Fig 9.1.1 Front, back, and side views of SAM twin phantom

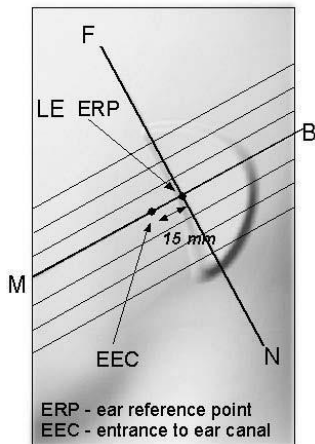


Fig 9.1.2 Close-up side view of phantom showing the ear region.

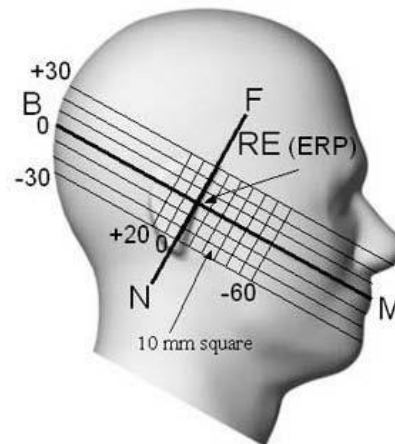


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

11.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

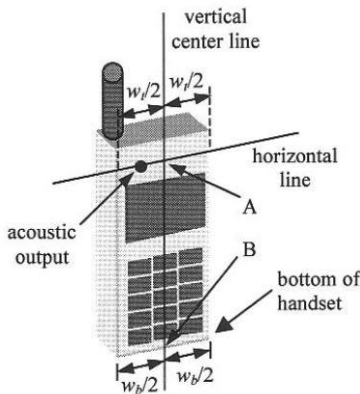


Fig 9.2.1 Handset vertical and horizontal reference lines—“fixed case”

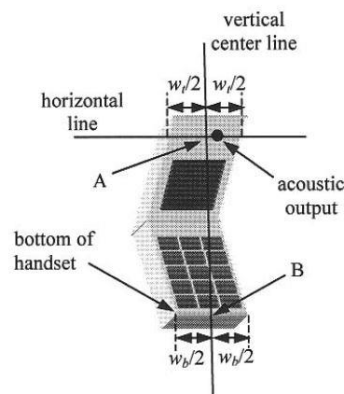


Fig 9.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

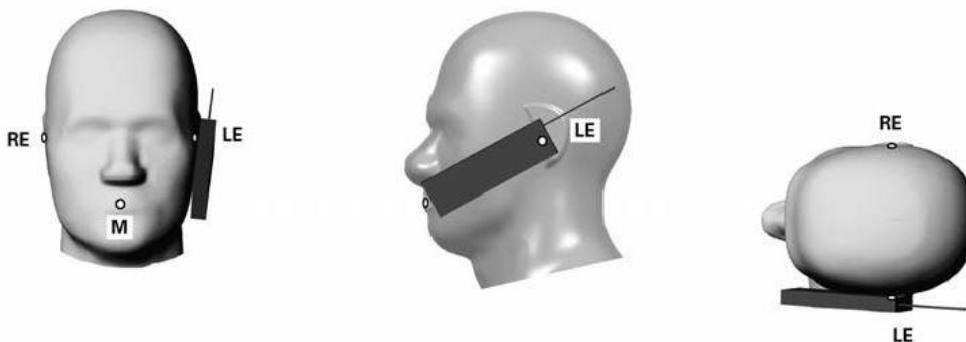


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

11.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

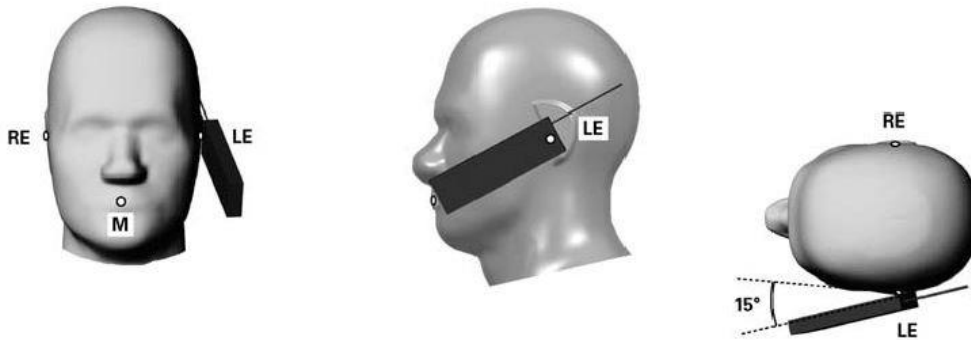


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

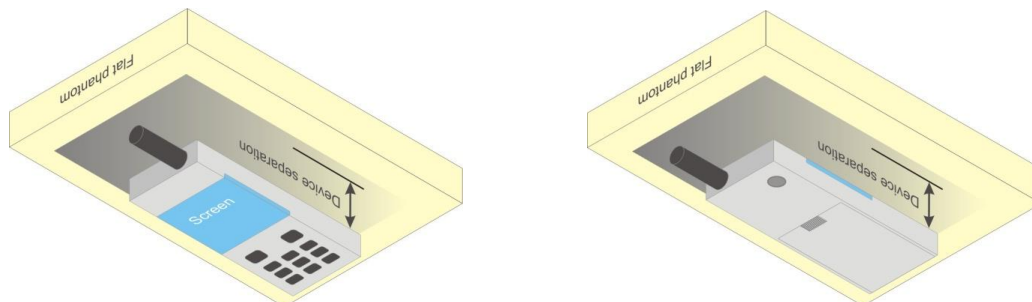


Fig 9.4 Body Worn Position



11.5 Product Specific Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.6 The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

11.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.



12. Measurement procedure for output power and SAR

Detail output power measurement data is in the appendix D

<GSM Note>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

<WCDMA Note>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
4. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCl
 - viii. Confirm that E-TFCl is equal to the target E-TFCl of 75 for sub-test 1, and other subtest's E-TFCl
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCl
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration

<LTE Note>

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- b. “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- c. Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The base station simulator was used for LTE output power measurements and SAR testing.

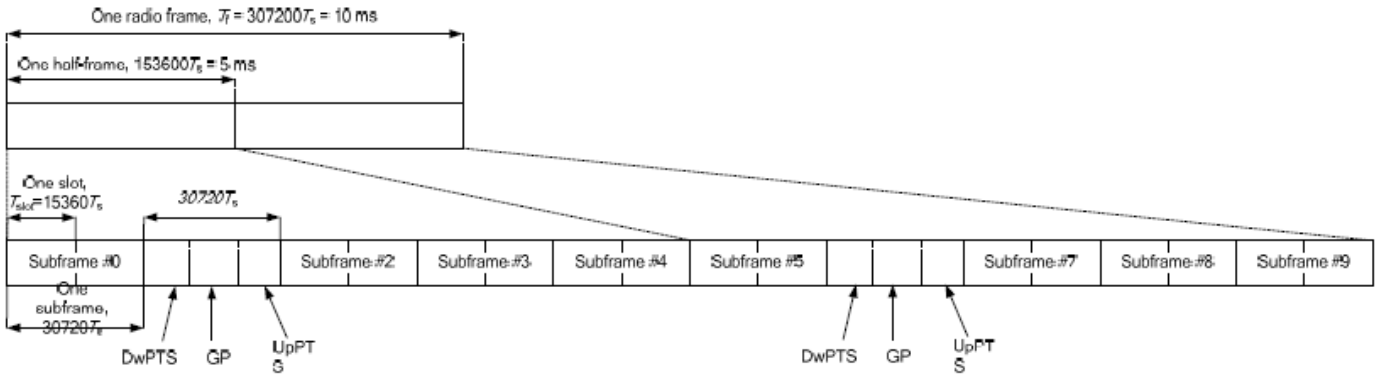


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$	-	-	-	-	-

Special subframe (30720·T_s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T_s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.

<5G NR Note>

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
 - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
 - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is ≤ 1.45 W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
 - c. To start SAR test for the largest channel bandwidth for Pi/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for Pi/2 BPSK SAR testing using 1RB Pi/2 BPSK allocation procedure
 - d. For Pi/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - f. Smaller bandwidth output power for each RB allocation configuration for this device is not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
2. Due to test setup limitations, SAR testing for NR TDD Power class 3 was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. For NR TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission.
3. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing

<3GPP 38.101 MPR for EN-DC>

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5 ¹	≤ 1.2 ¹	≤ 0.2 ¹
		≤ 0.5 ²	≤ 0.5 ²	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM		≤ 2.5	
CP-OFDM	256 QAM		≤ 4.5	
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5		≤ 2.5
	256 QAM		≤ 4.5	
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	



<WLAN Note>

1. The SISO mode support only when the Antenna 3 and 4 is transmitting on 802.11b mode, other support MIMO mode.
2. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, additional output power measurements were not necessary.
3. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
4. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
5. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
6. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closest/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
7. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
8. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
9. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
10. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel

<Bluetooth>

1. For 2.4GHz Bluetooth SAR testing was selected ER/EDR 1Mbps due to its highest average power and duty cycle list below are considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation, for the duty cycle figure and output power include in appendix D.

	Power Index	Antenna	Duty Cycle %
Bluetooth	1/2/3/4	Ant 4	76.86
	1/2/3/4	Ant 3	77.07
	1/2/3/4	Ant 4+3	77.07



13. DL/UL carrier aggregation

<LTE Carrier Aggregation combinations>

General Note:

1. This device supports Carrier Aggregation on downlink only for inter and intra band. For the device supports combination bands and configurations are according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations if require power measurement will display "No" in the below table.

2CC Downlink Carrier Aggregation			3CC Downlink Carrier Aggregation			4CC Downlink Carrier Aggregation		
Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset
1	CA_2A-12A	3CC-66	66	CA_2A-12A-30A	4CC-186	186	CA_2A-12A-30A-66A	5CC-320
2	CA_2A-13A	3CC-70	67	CA_2A-12A-66A	4CC-187	187	CA_2A-12A-66A-66A	5CC-321
3	CA_2A-14A	3CC-72	68	CA_2A-12A-12A	4CC-189	188	CA_2A-12A-66C	5CC-320
4	CA_2A-17A	No	69	CA_2A-12B	4CC-189	189	CA_2A-12B-66A	5CC-320
5	CA_2A-2A	3CC-76	70	CA_2A-13A-48A	4CC-190	190	CA_2A-13A-48A-48A	5CC-322
6	CA_2A-30A	3CC-74	71	CA_2A-13A-66A	4CC-191	191	CA_2A-13A-48A-66A	5CC-322
7	CA_2A-48A	3CC-81	72	CA_2A-14A-30A	4CC-196	192	CA_2A-13A-48C	5CC-322
8	CA_2A-4A	3CC-84	73	CA_2A-2A-13A	4CC-201	193	CA_2A-13A-66A-66A	5CC-326
9	CA_2A-5A	3CC-91	74	CA_2A-2A-30A	4CC-202	194	CA_2A-13A-66B	5CC-326
10	CA_2A-66A	3CC-96	75	CA_2A-2A-4A	4CC-203	195	CA_2A-13A-66C	5CC-326
11	CA_2A-71A	3CC-89	76	CA_2A-2A-5A	4CC-205	196	CA_2A-14A-30A-66A	5CC-328
12	CA_2A-7A	3CC-100	77	CA_2A-2A-66A	4CC-207	197	CA_2A-14A-66A-66A	5CC-327
13	CA_2C-66A	4CC-248	78	CA_2A-2A-71A	4CC-206	198	CA_2A-2A-12A-30A	5CC-329
14	CA_2C	3CC-13	79	CA_2A-2A-7A	4CC-213	199	CA_2A-2A-12A-66A	5CC-329
15	CA_4A-12A	3CC-105	80	CA_2A-30A-66A	4CC-215	200	CA_2A-2A-12B	5CC-331
16	CA_4A-13A	3CC-110	81	CA_2A-48A-48A	4CC-216	201	CA_2A-2A-13A-66A	5CC-332
17	CA_4A-17A	No	82	CA_2A-48A-66A	4CC-216	202	CA_2A-2A-30A-66A	5CC-333
18	CA_4A-30A	3CC-114	83	CA_2A-48C	4CC-217	203	CA_2A-2A-4A-12A	4CC-220
19	CA_4A-48A	4CC-249	84	CA_2A-4A-12A	4CC-220	204	CA_2A-2A-4A-4A	4CC-225
20	CA_4A-4A	4CC-223	85	CA_2A-4A-13A	No	205	CA_2A-2A-4A-5A	4CC-225
21	CA_4A-5A	3CC-114	86	CA_2A-4A-30A	4CC-225	206	CA_2A-2A-4A-71A	No
22	CA_4A-71A	3CC-112	87	CA_2A-4A-4A	4CC-204	207	CA_2A-2A-5A-66A	5CC-338
23	CA_4A-7A	3CC-113	88	CA_2A-4A-5A	4CC-205	208	CA_2A-2A-5B	5CC-339
24	CA_5A-25A	No	89	CA_2A-4A-71A	4CC-206	209	CA_2A-2A-66A-66A	5CC-320
25	CA_5A-30A	3CC-91	90	CA_2A-4A-7A	4CC-227	210	CA_2A-2A-66A-71A	5CC-378
26	CA_5A-48A	3CC-92	91	CA_2A-5A-30A	4CC-229	211	CA_2A-2A-66B	5CC-320
27	CA_5A-66A	3CC-93	92	CA_2A-5A-48A	4CC-230	212	CA_2A-2A-66C	5CC-320
28	CA_5A-7A	3CC-94	93	CA_2A-5A-66A	4CC-230	213	CA_2A-2A-7A-12A	5CC-340
29	CA_5B	3CC-95	94	CA_2A-5A-7A	4CC-304	214	CA_2A-2A-7A-66A	5CC-340
30	CA_7A-12A	3CC-100	95	CA_2A-5B	4CC-236	215	CA_2A-30A-66A-66A	5CC-333
31	CA_7A-13A	3CC-101	96	CA_2A-66A-66A	4CC-238	216	CA_2A-48A-48A-66A	5CC-322
33	CA_7A-66A	3CC-182	97	CA_2A-66A-71A	4CC-239	217	CA_2A-48A-48C	5CC-323
34	CA_7A-7A	3CC-103	98	CA_2A-66B	4CC-240	218	CA_2A-48C-66A	5CC-324
35	CA_7C	3CC-104	99	CA_2A-66C	4CC-241	219	CA_2A-48D	5CC-325
36	CA_12A-12A	3CC-105	100	CA_2A-7A-12A	4CC-242	220	CA_2A-4A-12A-30A	No
37	CA_12A-25A	No	101	CA_2A-7A-13A	4CC-245	221	CA_2A-4A-12A-12A	4CC-222
38	CA_12A-30A	3CC-138	102	CA_2A-7A-66A	4CC-244	222	CA_2A-4A-12B	4CC-220
39	CA_12A-66A	3CC-139	103	CA_2A-7A-7A	4CC-244	223	CA_2A-4A-4A-12A	4CC-222
40	CA_12B	3CC-105	104	CA_2A-7C	4CC-246	224	CA_2A-4A-4A-5A	4CC-225
41	CA_13A-48A	3CC-144	105	CA_4A-12A-12A	4CC-221	225	CA_2A-4A-5A-30A	No
42	CA_13A-66A	3CC-145	106	CA_4A-12A-30A	4CC-220	226	CA_2A-4A-5B	4CC-225
43	CA_14A-30A	3CC-148	107	CA_4A-12B	4CC-221	227	CA_2A-4A-7A-7A	4CC-228
44	CA_14A-66A	3CC-149	108	CA_4A-48C	4CC-249	228	CA_2A-4A-7C	No



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Report No. : FA2D0206-01F

45	CA_25A-25A	3CC-150	109	CA_4A-4A-12A	4CC-223	229	CA_2A-5A-30A-66A	5CC-345
46	CA_25A-26A	3CC-150	110	CA_4A-4A-13A	3CC-85	230	CA_2A-5A-48A-66A	5CC-346
47	CA_25A-41A	3CC-151	111	CA_4A-4A-5A	4CC-224	231	CA_2A-5A-48C	5CC-346
48	CA_30A-66A	3CC-152	112	CA_4A-4A-71A	4CC-206	232	CA_2A-5A-5A-66A	5CC-346
49	CA_38C	No	113	CA_4A-4A-7A	4CC-228	233	CA_2A-5A-66A-66A	5CC-346
50	CA_41A-41A	3CC-51	114	CA_4A-5A-30A	4CC-225	234	CA_2A-5A-66B	5CC-346
51	CA_41C	3CC-151	115	CA_4A-5B	4CC-225	235	CA_2A-5A-66C	5CC-346
52	CA_48A-48A	3CC-154	116	CA_4A-7A-12A	No	236	CA_2A-5B-30A	5CC-345
53	CA_48A-66A	3CC-154	117	CA_4A-7A-7A	3CC-118	237	CA_2A-5B-66A	5CC-346
54	CA_48C	3CC-154	118	CA_4A-7C	4CC-228	238	CA_2A-66A-66A-66A	5CC-346
55	CA_66A-66A	3CC-156	119	CA_5A-30A-66A	4CC-252	239	CA_2A-66A-66A-71A	5CC-378
56	CA_66A-71A	3CC-162	120	CA_5A-48A-66A	4CC-253	240	CA_2A-66A-66B	5CC-346
57	CA_66B	3CC-156	121	CA_5A-48C	4CC-253	241	CA_2A-66C-71A	5CC-378
58	CA_66C	3CC-156	122	CA_5A-5A-66A	4CC-255	242	CA_2A-7A-12A-66A	5CC-379
59	CA_48A-71A	3CC-169	123	CA_5A-5A	4CC-255	243	CA_2A-7A-66A-66A	5CC-379
60	CA_2A-26A	3CC-171	124	CA_5A-66A-66A	4CC-255	244	CA_2A-7A-7A-66A	5CC-379
61	CA_26A-66A	3CC-171	125	CA_5A-66B	4CC-255	245	CA_2A-7A-7A-13A	5CC-383
62	CA_7A-71A	3CC-177	126	CA_5A-66C	4CC-255	246	CA_2A-7C-66A	5CC-385
63	CA_12A-48A	3CC-176	127	CA_5A-7A-7A	4CC-258	247	CA_2A-7C-13A	5CC-383
64	CA_25A-66A	3CC-179	128	CA_5A-7C	4CC-258	248	CA_2C-66A-66A	5CC-346
65	CA_7A-25A	3CC-180	129	CA_5B-30A	4CC-252	249	CA_4A-48D	5CC-364
			130	CA_5B-66A	4CC-252	250	CA_4A-4A-12B	4CC-220
			131	CA_7A-12A-66A	4CC-263	251	CA_4A-4A-5B	4CC-225
			132	CA_7A-12B	4CC-263	252	CA_5A-30A-66A-66A	5CC-356
			133	CA_7A-66A-66A	4CC-265	253	CA_5A-48C-66A	5CC-354
			134	CA_7A-7A-13A	4CC-383	254	CA_5A-48D	5CC-354
			135	CA_7A-7A-66A	4CC-380	255	CA_5A-5A-66A-66A	4CC-319
			136	CA_7C-66A	4CC-380	256	CA_5A-5A-66B	4CC-319
			137	CA_7C-13A	4CC-381	257	CA_5A-5A-66C	4CC-319
			138	CA_12A-30A-66A	4CC-329	258	CA_5A-7A-66A-66A	5CC-385
			139	CA_12A-66A-66A	4CC-268	259	CA_5A-7C-66A	5CC-380
			140	CA_12A-66C	4CC-268	260	CA_5B-30A-66A	5CC-348
			141	CA_12B-66A	4CC-268	261	CA_5B-66B	4CC-319
			142	CA_13A-48A-48A	4CC-270	262	CA_5B-66C	4CC-319
			143	CA_13A-48A-66A	4CC-272	263	CA_7A-12A-66A-66A	5CC-379
			144	CA_13A-48C	4CC-272	264	CA_7A-12B-66A	5CC-379
			145	CA_13A-66A-66A	4CC-272	265	CA_7A-7A-66A-66A	5CC-353
			146	CA_13A-66B	4CC-272	266	CA_7C-66A-66A	5CC-353
			147	CA_13A-66C	4CC-272	267	CA_12A-30A-66A-66A	5CC-320
			148	CA_14A-30A-66A	4CC-278	268	CA_12B-66A-66A	5CC-320
			149	CA_14A-66A-66A	4CC-278	269	CA_13A-48A-48A-66A	5CC-324
			150	CA_25A-25A-26A	4CC-311	270	CA_13A-48A-48C	5CC-387
			151	CA_25A-41C	4CC-279	271	CA_13A-48A-66B	5CC-324
			152	CA_30A-66A-66A	4CC-278	272	CA_13A-48A-66C	5CC-324
			153	CA_41D	4CC-280	273	CA_13A-48C-66A	5CC-324
			154	CA_48A-48A-66A	4CC-281	274	CA_13A-48D	5CC-323
			155	CA_48A-48C	4CC-274	275	CA_13A-66A-66B	5CC-326
			156	CA_48A-66A-66A	4CC-281	276	CA_13A-66A-66C	5CC-326
			157	CA_48A-66B	4CC-281	277	CA_13A-66D	5CC-326
			158	CA_48A-66C	4CC-281	278	CA_14A-30A-66A-66A	5CC-328
			159	CA_48C-66A	4CC-281	279	CA_25A-41D	No
			160	CA_48D	4CC-281	280	CA_41E	5CC-360
			161	CA_66A-66A-66A	4CC-296	281	CA_48A-48A-66A-66A	5CC-282
			162	CA_66A-66A-71A	4CC-241	282	CA_48A-48A-66B	5CC-365
			163	CA_66A-66B	5CC-327	283	CA_48A-48A-66C	5CC-366
			164	CA_66A-66C	5CC-327	284	CA_48A-48D	5CC-367



			165	CA_66C-71A	4CC-241	285	CA_48A-48C-66A	5CC-367
			166	CA_2A-14A-66A	5CC-327	286	CA_48C-48C	5CC-368
			167	CA_2A-2A-14A	5CC-327	287	CA_48C-66A-66A	5CC-366
			168	CA_48A-48A-71A	4CC-169	288	CA_48C-66B	5CC-366
			169	CA_48C-71A	No	289	CA_48C-66C	5CC-366
			170	CA_2A-7A-26A	4CC-293	290	CA_48D-66A	5CC-367
			171	CA_2A-26A-66A	4CC-293	291	CA_48E	5CC-368
			172	CA_7A-26A-66A	4CC-293	292	CA_2A-2A-14A-66A	5CC-369
			173	CA_7A-13A-66A	4CC-294	293	CA_2A-7A-26A-66A	No
			174	CA_2A-5A-5A	4CC-304	294	CA_2A-7A-13A-66A	5CC-372
			175	CA_48A-48A-48A	4CC-291	295	CA_7C-13A-66A	5CC-372
			176	CA_12A-48C	No	296	CA_14A-66A-66A-66A	5CC-327
			177	CA_2A-7A-71A	4CC-302	297	CA_2A-2A-14A-30A	5CC-333
			178	CA_7A-66A-71A	4CC-303	298	CA_2A-5A-7A-66A	5CC-373
			179	CA_25A-25A-66A	4CC-311	299	CA_30A-66A-66A-66A	5CC-356
			180	CA_7A-7A-25A	4CC-310	300	CA_5A-48A-66A-66A	5CC-375
			181	CA_7A-25A-25A	4CC-311	301	CA_2A-48A-66A-66A	5CC-374
			182	CA_7A-25A-66A	4CC-311	302	CA_2A-2A-7A-71A	5CC-378
			183	CA_7C-25A	4CC-311	303	CA_2A-7A-66A-71A	5CC-378
			184	CA_7C-26A	4CC-293	304	CA_2A-5A-7A-7A	5CC-305
			185	CA_5A-7A-66A	4CC-298	305	CA_2A-5A-7C	5CC-385
						306	CA_2A-48A-48A-48A	5CC-362
						307	CA_5A-7A-7A-66A	5CC-380
						308	CA_7A-7A-13A-66A	5CC-381
						309	CA_7A-7A-25A-25A	5CC-386
						310	CA_7A-7A-25A-66A	5CC-386
						311	CA_7A-25A-25A-66A	5CC-386
						312	CA_2A-2A-7A-13A	5CC-384
						313	CA_2A-2A-7A-7A	4CC-314
						314	CA_2A-2A-7C	5CC-384
						315	CA_7C-25A-25A	5CC-386
						316	CA_7C-25A-66A	5CC-386
						317	CA_2A-2A-5A-7A	5CC-373
						318	CA_2A-4A-7A-12A	5CC-340
						319	CA_5B-66A-66A	5CC-356

5CC Downlink Carrier Aggregation			6CC Downlink Carrier Aggregation		
Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset
320	CA_2A-12A-30A-66A-66A	No	388	CA_2A-5A-48C-66A-66A	No
321	CA_2A-12B-66A-66A	5CC-320			
322	CA_2A-13A-48A-48A-66A	5CC-324			
323	CA_2A-13A-48A-48C	5CC-325			
324	CA_2A-13A-48C-66A	No			
325	CA_2A-13A-48D	5CC-324			
326	CA_2A-13A-66A-66B	5CC-324			
327	CA_2A-14A-66A-66A-66A	5CC-328			
328	CA_2A-14A-30A-66A-66A	No			
329	CA_2A-2A-12A-30A-66A	5CC-320			
330	CA_2A-2A-12A-66A-66A	5CC-329			
331	CA_2A-2A-12B-66A	5CC-329			
332	CA_2A-2A-13A-66A-66A	5CC-324			
333	CA_2A-2A-14A-30A-66A	5CC-334			
334	CA_2A-2A-14A-66A-66A	5CC-328			



335	CA_2A-2A-5A-30A-66A	5CC-345		
336	CA_2A-2A-5A-66A-66A	5CC-337		
337	CA_2A-2A-5A-66B	5CC-338		
338	CA_2A-2A-5A-66C	5CC-339		
339	CA_2A-2A-5B-66A	5CC-345		
340	CA_2A-2A-7A-12A-66A	5CC-379		
341	CA_2A-48A-48C-66A	5CC-344		
342	CA_2A-48A-48D	5CC-343		
343	CA_2A-48C-48C	5CC-362		
344	CA_2A-48D-66A	5CC-324		
345	CA_2A-5A-30A-66A-66A	No		
346	CA_2A-5A-48C-66A	5CC-388		
347	CA_2A-5A-48D	5CC-388		
348	CA_2A-5B-30A-66A	5CC-345		
349	CA_2A-5B-66A-66A	5CC-350		
350	CA_2A-5B-66B	5CC-351		
351	CA_2A-5B-66C	5CC-345		
352	CA_2A-7A-7A-66A-66A	5CC-353		
353	CA_2A-7C-66A-66A	5CC-340		
354	CA_5A-48D-66A	5CC-388		
355	CA_5A-7C-66A-66A	5CC-373		
356	CA_5B-30A-66A-66A	5CC-345		
357	CA_13A-48A-48C-66A	5CC-359		
358	CA_13A-48C-48C	5CC--363		
359	CA_13A-48D-66A	5CC-324		
360	CA_41F	No		
361	CA_48A-48E	5CC-371		
362	CA_2A-48E	5CC-388		
363	CA_13A-48E	5CC-359		
364	CA_4A-48E	No		
365	CA_48A-48C-66B	5CC-366		
366	CA_48A-48C-66C	5CC-388		
367	CA_48A-48D-66A	5CC-370		
368	CA_48C-48D	5CC-371		
369	CA_48C-48C-66A	5CC-370		
370	CA_48E-66A	5CC-388		
371	CA_48F	5CC-388		
372	CA_2A-7C-13A-66A	No		
373	CA_2A-5A-7A-66A-66A	No		
374	CA_2A-48C-66A-66A	5CC-388		
375	CA_5A-48C-66A-66A	5CC-388		
376	CA_2A-5A-48A-66A-66A	5CC-388		
377	CA_2A-2A-7A-66A-66A	5CC-378		
378	CA_2A-2A-7A-66A-71A	No		
379	CA_2A-7A-12A-66A-66A	No		
380	CA_2A-5A-7A-7A-66A	5CC-385		
381	CA_2A-7A-7A-13A-66A	5CC-372		
382	CA_7A-7A-25A-25A-66A	5CC-386		
383	CA_2A-2A-7A-7A-13A	5CC-384		
384	CA_2A-2A-7C-13A	5CC-372		
385	CA_2A-5A-7C-66A	5CC-373		
386	CA_7C-25A-25A-66A	No		
387	CA_13A-48A-48D	5CC-363		

<Power verification when LTE Carrier Aggregation Active>

General Note:

- i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- v. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- vi. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1|BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

<Two Carrier power verification>

Configure		PCC						SCC				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2	20	1880	18900	QPSK	1	0	17	10	740	5790	24.68	24.76
		4	20	1745	20300	QPSK	1	0	17	10	740	5790	24.61	24.66
		5	10	836.5	20525	QPSK	1	0	25	20	1960	8340	24.34	24.42
		12	10	707.5	23.95	QPSK	1	0	25	20	1960	8340	24.78	24.93
Intra-Band	Contiguous	38	20	2610	38150	QPSK	1	0	38	20	2590.20	37952	23.34	23.40

<Three Carrier power verification>

Configure		PCC						SCC1				SCC2				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	13	10	751	5230	24.73	24.76
		4	20	1745	20300	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	24.53	24.66
		48	20	3641	56150	QPSK	1	0	48	20	3660.8	56348	71	20	637	68786	21.12	21.14
		12	10	707.5	23.95	QPSK	1	0	48	20	3641	56150	48	20	3660.8	56348	24.88	24.93



<Four Carrier power verification>

Configure	PCC							SCC1				SCC2				SCC3				Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2	20	1880	18900	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	71	20	637	68786	24.75	24.76
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	12	10	737.5	5095	30	10	2355	9820	24.68	24.76
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	30	10	2355	9820	24.76	24.76
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	7	20	2655	3100	7	20	2674.8	3298	24.64	24.76
	25	20	1880	26340	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	41016	24.77	24.85
	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	26	15	876.5	8865	66	20	2155	66886	24.72	24.76

<Five Carrier power verification>

Configure	PCC							SCC1				SCC2				SCC3				SCC4				Power		
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)	
Inter-Band	2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	66	20	2155	66886	66	5	2197.5	67311	24.73	24.76	
	2	20	1880	18900	QPSK	1	0	13	10	751	5230	48	20	3641	56150	48	20	3660.8	56348	66	20	2155	66886	24.69	24.76	
	2	20	1880	18900	QPSK	1	0	14	10	763	5330	30	10	2355	9820	66	20	2155	66886	66	5	2197.5	67311	24.76	24.76	
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	66	20	2155	66886	66	5	2197.5	67311	24.76	24.76	
	4	20	1745	20300	QPSK	1	0	48	20	3641	56150	48	20	3660.8	56348	48	20	3680.6	56546	48	20	3621.2	55952	24.51	24.66	
	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	20	2674.8	3298	13	10	751	5230	66	20	2155	5230	24.66	24.76	
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	7	20	2655	3100	66	20	2155	66886	66	5	2197.5	67311	24.60	24.76	
	2	20	1880	18900	QPSK	1	0	2	20	1960	900	7	20	2655	3100	66	20	2155	66886	71	20	637	68786	24.61	24.76	
	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	66	20	2155	66886	66	5	2197.5	67311	24.58	24.76	
Intra-Band	Contiguous	41	20	2506	39750	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	41016	41	20	2652.4	41214	23.36	23.51

<Six Carrier power verification>

Configure	PCC							SCC1				SCC2				SCC3				SCC4				SCC5		Power			
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	48	20	3641	56150	48	20	3660.8	56348	66	20	2155	66886	66	5	2197.5	67311	24.70	24.76



<LTE Uplink carrier aggregation>

2CC Uplink Carrier Aggregation	
Number	Combination
1	CA_5B
2	CA_7C
3	CA_66B
4	CA_66C
5	CA_38C
6	CA_41C

<Intra-band>

General Note:

- i. The device supports intra-band uplink carrier aggregation with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iii. Uplink CA is only operating with power class3, and additional SAR measurement for LTE UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.
- iv. For Intra-band, contiguous CA, the channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

TX 0

Index 2/3/4/5/6										
CA_5B_Ant 0										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	22.98	23.7
20475	20574	QPSK	1	49	1	0	2	0	22.75	23.7
20600	20501	QPSK	1	0	1	49	2	0	23.02	23.7

Index 2/3										
CA_7C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.66	23.9
21100	20902	QPSK	1	0	1	99	2	0	23.42	23.9
21350	21152	QPSK	1	0	1	99	2	0	23.53	23.9



Index 4/6										
CA_7C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	19.59	20
21100	20902	QPSK	1	0	1	99	2	0	19.37	20
21350	21152	QPSK	1	0	1	99	2	0	19.47	20

Index 5										
CA_7C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	19.59	20.7
21100	20902	QPSK	1	0	1	99	2	0	19.37	20.7
21350	21152	QPSK	1	0	1	99	2	0	19.47	20.7

Index 2/3										
CA_66B_Ant 2										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	22.86	23.8
132322	132229	QPSK	1	0	1	24	2	0	22.92	23.8
132597	132504	QPSK	1	0	1	24	2	0	22.9	23.8

Index 4/6										
CA_66B_Ant 2										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	18.64	19.4
132322	132229	QPSK	1	0	1	24	2	0	18.75	19.4
132597	132504	QPSK	1	0	1	24	2	0	18.74	19.4

Index 5										
CA_66B_Ant 2										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	18.64	20.1
132322	132229	QPSK	1	0	1	24	2	0	18.75	20.1
132597	132504	QPSK	1	0	1	24	2	0	18.74	20.1

Index 2/3										
CA_66C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	22.71	23.8
132322	132124	QPSK	1	0	1	99	2	0	22.93	23.8
132572	132374	QPSK	1	0	1	99	2	0	22.88	23.8



Index 4/6										
CA_66C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	18.56	19.4
132322	132124	QPSK	1	0	1	99	2	0	18.81	19.4
132572	132374	QPSK	1	0	1	99	2	0	18.76	19.4

Index 5										
CA_66C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	18.56	20.1
132322	132124	QPSK	1	0	1	99	2	0	18.81	20.1
132572	132374	QPSK	1	0	1	99	2	0	18.76	20.1

Index 2/3										
CA_38C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	23.21	23.9
37901	38099	QPSK	1	0	0	0	1	0	23.16	23.9
38150	37952	QPSK	1	0	0	0	1	0	23.23	23.9

Index 4/6										
CA_38C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	22.74	23.2
37901	38099	QPSK	1	0	0	0	1	0	22.71	23.2
38150	37952	QPSK	1	0	0	0	1	0	22.78	23.2

Index 5										
CA_38C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	22.74	23.9
37901	38099	QPSK	1	0	0	0	1	0	22.71	23.9
38150	37952	QPSK	1	0	0	0	1	0	22.78	23.9

Index 2/3										
CA_41C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.5	23.9
40185	39987	QPSK	1	0	0	0	1	0	23.23	23.9
40620	40422	QPSK	1	0	0	0	1	0	23.4	23.9
41055	40857	QPSK	1	0	0	0	1	0	23.43	23.9
41490	41292	QPSK	1	0	0	0	1	0	23.34	23.9



Index 4/6										
CA_41C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	22.94	23.2
40185	39987	QPSK	1	0	0	0	1	0	22.82	23.2
40620	40422	QPSK	1	0	0	0	1	0	23	23.2
41055	40857	QPSK	1	0	0	0	1	0	22.86	23.2
41490	41292	QPSK	1	0	0	0	1	0	22.9	23.2

Index 5										
CA_41C_Ant 2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	22.94	23.9
40185	39987	QPSK	1	0	0	0	1	0	22.82	23.9
40620	40422	QPSK	1	0	0	0	1	0	23	23.9
41055	40857	QPSK	1	0	0	0	1	0	22.86	23.9
41490	41292	QPSK	1	0	0	0	1	0	22.9	23.9

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Index 2										
CA_5B_Ant 1										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	18.69	20.5
20475	20574	QPSK	1	49	1	0	2	0	18.59	20.5
20600	20501	QPSK	1	0	1	49	2	0	18.65	20.5

Index 3										
CA_5B_Ant 1										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	18.69	19.8
20475	20574	QPSK	1	49	1	0	2	0	18.59	19.8
20600	20501	QPSK	1	0	1	49	2	0	18.65	19.8

Index 4/5/6										
CA_5B_Ant 1										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	22.58	24.1
20475	20574	QPSK	1	49	1	0	2	0	22.5	24.1
20600	20501	QPSK	1	0	1	49	2	0	22.53	24.1



Index 2/3										
CA_7C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.81	24.5
21100	20902	QPSK	1	0	1	99	2	0	22.76	24.5
21350	21152	QPSK	1	0	1	99	2	0	22.59	24.5

Index 4										
CA_7C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	15.72	16.8
21100	20902	QPSK	1	0	1	99	2	0	15.66	16.8
21350	21152	QPSK	1	0	1	99	2	0	15.55	16.8

Index 5										
CA_7C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	19.82	21.1
21100	20902	QPSK	1	0	1	99	2	0	19.75	21.1
21350	21152	QPSK	1	0	1	99	2	0	19.76	21.1

Index 6										
CA_7C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	19.82	20.4
21100	20902	QPSK	1	0	1	99	2	0	19.75	20.4
21350	21152	QPSK	1	0	1	99	2	0	19.76	20.4

Index 2/3										
CA_66B_Ant 0										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	22.49	24.4
132322	132229	QPSK	1	0	1	24	2	0	22.61	24.4
132597	132504	QPSK	1	0	1	24	2	0	22.58	24.4

Index 4										
CA_66B_Ant 0										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	16.62	17.6
132322	132229	QPSK	1	0	1	24	2	0	16.81	17.6
132597	132504	QPSK	1	0	1	24	2	0	16.8	17.6



Index 5										
CA_66B_Ant 0										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	17.12	19.1
132322	132229	QPSK	1	0	1	24	2	0	17.33	19.1
132597	132504	QPSK	1	0	1	24	2	0	17.24	19.1

Index 6										
CA_66B_Ant 0										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	17.12	18.4
132322	132229	QPSK	1	0	1	24	2	0	17.33	18.4
132597	132504	QPSK	1	0	1	24	2	0	17.24	18.4

Index 2/3										
CA_66C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	22.57	24.4
132322	132124	QPSK	1	0	1	99	2	0	22.95	24.4
132572	132374	QPSK	1	0	1	99	2	0	22.84	24.4

Index 4										
CA_66C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	16.69	17.6
132322	132124	QPSK	1	0	1	99	2	0	16.81	17.6
132572	132374	QPSK	1	0	1	99	2	0	16.75	17.6

Index 5										
CA_66C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	17.18	19.1
132322	132124	QPSK	1	0	1	99	2	0	17.24	19.1
132572	132374	QPSK	1	0	1	99	2	0	17.2	19.1

Index 6										
CA_66C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	17.18	18.4
132322	132124	QPSK	1	0	1	99	2	0	17.24	18.4
132572	132374	QPSK	1	0	1	99	2	0	17.2	18.4



Index 2/3										
CA_38C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	21.94	23.5
37901	38099	QPSK	1	0	0	0	1	0	21.98	23.5
38150	37952	QPSK	1	0	0	0	1	0	22.23	23.5

Index 4										
CA_38C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	18.66	19.3
37901	38099	QPSK	1	0	0	0	1	0	18.61	19.3
38150	37952	QPSK	1	0	0	0	1	0	18.84	19.3

Index 5										
CA_38C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	21.54	23.1
37901	38099	QPSK	1	0	0	0	1	0	21.58	23.1
38150	37952	QPSK	1	0	0	0	1	0	21.73	23.1

Index 6										
CA_38C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	21.54	22.4
37901	38099	QPSK	1	0	0	0	1	0	21.58	22.4
38150	37952	QPSK	1	0	0	0	1	0	21.73	22.4

Index 2/3										
CA_41C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	22.55	23.5
40185	39987	QPSK	1	0	0	0	1	0	22.16	23.5
40620	40422	QPSK	1	0	0	0	1	0	22.32	23.5
41055	40857	QPSK	1	0	0	0	1	0	22.36	23.5
41490	41292	QPSK	1	0	0	0	1	0	22.32	23.5



Index 4										
CA_41C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	18.99	19.3
40185	39987	QPSK	1	0	0	0	1	0	18.5	19.3
40620	40422	QPSK	1	0	0	0	1	0	18.69	19.3
41055	40857	QPSK	1	0	0	0	1	0	18.95	19.3
41490	41292	QPSK	1	0	0	0	1	0	18.86	19.3

Index 5										
CA_41C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	22.18	23.1
40185	39987	QPSK	1	0	0	0	1	0	21.81	23.1
40620	40422	QPSK	1	0	0	0	1	0	22	23.1
41055	40857	QPSK	1	0	0	0	1	0	22.02	23.1
41490	41292	QPSK	1	0	0	0	1	0	22.01	23.1

Index 6										
CA_41C_Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	22.18	22.4
40185	39987	QPSK	1	0	0	0	1	0	21.81	22.4
40620	40422	QPSK	1	0	0	0	1	0	22	22.4
41055	40857	QPSK	1	0	0	0	1	0	22.02	22.4
41490	41292	QPSK	1	0	0	0	1	0	22.01	22.4

14. RF Exposure position consideration

Distance of the Antenna to the EUT surface/edge						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 1	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
WWAN Ant 2	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 5	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
WWAN Ant 6	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 7	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
2.4GHz WLAN/BT Ant 3 / 4	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
NFC	≤ 25mm	≤ 25mm	> 25mm	> 25mm	≤ 25mm	≤ 25mm

Positions for SAR / PD tests						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 1	Yes	Yes	Yes	No	Yes	Yes
WWAN Ant 2	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 5	Yes	Yes	Yes	No	Yes	Yes
WWAN Ant 6	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 7	Yes	Yes	No	Yes	Yes	Yes
WLAN/BT Ant 3 / 4	Yes	Yes	Yes	No	Yes	Yes
NFC	Yes	Yes	No	No	Yes	Yes

General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm. RF Exposure must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge
- The antenna location is illustrated in the Appendix I.



15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold, for this device the WCDMA B2, LTE B7/25/30/66, FR1 n7/n25/n30/n66 Bottom Side.
6. For 5.3GHz, 5.5GHz, 5.9GHz and 6GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is > 16 cm.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE / DTM modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

**UMTS Note:**

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

5G NR Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
 - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - b. For PI/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - d. Smaller bandwidth output power for each RB allocation configuration for this device is not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - e. For 5G FR1 n5/n12/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
 - f. Due to test setup limitations, SAR testing for NR TDD Power class 3 was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. For NR TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission.

WLAN Note:

1. The SISO mode support only when the Antenna 3 and 4 is transmitting on 802.11b mode, other support MIMO mode.
2. Per KDB 248227 D01v02r02, For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test position when 802.11 DSS mode is active at transmit antenna 3 and 4
3. Per KDB 248227 D01v02r02, for 2.4GHz WLAN MIMO operation for 802.11g/n, when the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured, so 802.11g mode is selected to be tested.
4. Per KDB 248227 D01v02r02, WLAN5.2GHz SAR testing is not required when the WLAN5.3GHz band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WLAN5.2GHz band.
5. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
6. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
7. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain
8. 4+3(3) represents the test in 2TX operation, while the SAR or power data is associated with antenna 3
9. 4+3(4) represents the test in 2TX operation, while the SAR or power data is associated with antenna 4
10. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

WLAN PD Note:

1. The WiFi 6E PD was performed according 2020 TCB workshop RF Exposure 5G RFX Policies Interim Procedures.
2. First, evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and using highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane).
3. Per Interim Procedures. The power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor
4. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. The WiFi 6E RF Exposure results are used for simultaneous transmission analysis with the other transmitters and total exposure ratio, the analysis can be found in this report appendix F and part1 PD report section12
6. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
7. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
8. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
9. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

NFC Note:

1. NFC mainly operate in hand-held extremity exposure conditions and NFC sensing distance with other device or reading tag is about 20cm, therefore Standalone 10-g extremity SAR testing for NFC will be performed by test software with 100% duty cycle at 0mm separation distance.
2. NFC SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.
3. NFC 13.56MHz antenna port is not available on the device to support conducted power measurement, therefore the measured results are referred to as reported SAR.
4. NFC SAR test tissue-simulating liquid parameter: refer to IEC/IEEE 62209-1528 2020.



15.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	Index 2	128	824.2	28.81	29.80	1.256	-0.04	0.298	0.374
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Tilted	0mm	Index 2	128	824.2	28.81	29.80	1.256	0	0.164	0.206
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	Index 2	128	824.2	28.81	29.80	1.256	-0.13	0.384	0.482
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	Index 2	189	836.4	28.77	29.80	1.267	0.07	0.379	0.480
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	Index 2	251	848.8	28.81	29.80	1.256	0.01	0.398	0.500
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Tilted	0mm	Index 2	128	824.2	28.81	29.80	1.256	0.02	0.156	0.196
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	Index 3	128	824.2	28.81	29.10	1.069	-0.04	0.298	0.319
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Tilted	0mm	Index 3	128	824.2	28.81	29.10	1.069	0	0.164	0.175
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	Index 3	128	824.2	28.81	29.10	1.069	-0.13	0.384	0.411
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	Index 3	189	836.4	28.77	29.10	1.079	0.07	0.379	0.409
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	Index 3	251	848.8	28.81	29.10	1.069	0.01	0.398	0.425
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Tilted	0mm	Index 3	128	824.2	28.81	29.10	1.069	0.02	0.156	0.167
01	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	Index 2	128	824.2	24.28	25.20	1.236	0.15	0.703	0.869
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	Index 2	189	836.4	24.21	25.20	1.256	-0.04	0.574	0.721
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	Index 2	251	848.8	24.19	25.20	1.262	0.14	0.532	0.671
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	Index 2	128	824.2	24.28	25.20	1.236	-0.18	0.618	0.764
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Cheek	0mm	Index 2	128	824.2	24.28	25.20	1.236	-0.08	0.509	0.629
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Tilted	0mm	Index 2	128	824.2	24.28	25.20	1.236	-0.1	0.466	0.576
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	Index 3	128	824.2	24.28	24.50	1.052	0.15	0.703	0.740
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	Index 3	189	836.4	24.21	24.50	1.069	-0.04	0.574	0.614
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	Index 3	251	848.8	24.19	24.50	1.074	0.14	0.532	0.571
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	Index 3	128	824.2	24.28	24.50	1.052	-0.18	0.618	0.650
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Cheek	0mm	Index 3	128	824.2	24.28	24.50	1.052	-0.08	0.509	0.535
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Tilted	0mm	Index 3	128	824.2	24.28	24.50	1.052	-0.1	0.466	0.490
02	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Cheek	0mm	Index 2/3	512	1850.2	26.74	28.00	1.337	0.13	0.419	0.560
	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Cheek	0mm	Index 2/3	661	1880	26.65	28.00	1.365	0.08	0.324	0.442
	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Cheek	0mm	Index 2/3	810	1909.8	26.51	28.00	1.409	-0.13	0.295	0.416
	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Tilted	0mm	Index 2/3	512	1850.2	26.74	28.00	1.337	-0.02	0.205	0.274
	GSM1900_Ant 2	GPRS (4 Tx slots)	Left Cheek	0mm	Index 2/3	512	1850.2	26.74	28.00	1.337	-0.05	0.229	0.306
	GSM1900_Ant 2	GPRS (4 Tx slots)	Left Tilted	0mm	Index 2/3	512	1850.2	26.74	28.00	1.337	0.02	0.198	0.265
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	Index 2/3	661	1880	26.10	27.20	1.288	0	0.048	0.062
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	Index 2/3	512	1850.2	26.02	27.20	1.312	-0.02	0.022	0.029
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	Index 2/3	810	1909.8	25.94	27.20	1.337	0.05	0.032	0.043
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Tilted	0mm	Index 2/3	661	1880	26.10	27.20	1.288	0.02	0.040	0.052
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	Index 2/3	661	1880	26.10	27.20	1.288	-0.1	0.035	0.045
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Tilted	0mm	Index 2/3	661	1880	26.10	27.20	1.288	-0.16	0.038	0.049



<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
03	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	9538	1907.6	24.91	25.40	1.119	0	0.671	0.751
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	9262	1852.4	24.75	25.40	1.161	0.02	0.581	0.675
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	9400	1880	24.84	25.40	1.138	0	0.581	0.661
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Tilted	0mm	Index 2/3	9538	1907.6	24.91	25.40	1.119	0	0.369	0.413
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Cheek	0mm	Index 2/3	9538	1907.6	24.91	25.40	1.119	-0.02	0.346	0.387
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Tilted	0mm	Index 2/3	9538	1907.6	24.91	25.40	1.119	-0.02	0.248	0.278
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	9538	1907.6	24.64	25.20	1.138	-0.09	0.063	0.072
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	9262	1852.4	24.52	25.20	1.169	-0.14	0.043	0.050
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	9400	1880	24.47	25.20	1.183	-0.12	0.069	0.082
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	Index 2/3	9538	1907.6	24.64	25.20	1.138	-0.03	0.042	0.048
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	Index 2/3	9538	1907.6	24.64	25.20	1.138	-0.09	0.055	0.063
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	Index 2/3	9538	1907.6	24.64	25.20	1.138	-0.06	0.040	0.046
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	1312	1712.4	24.97	25.40	1.104	-0.01	0.399	0.441
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	1413	1732.6	24.88	25.40	1.127	0.12	0.367	0.414
04	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	1513	1752.6	24.88	25.40	1.127	0.01	0.413	0.466
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Tilted	0mm	Index 2/3	1312	1712.4	24.97	25.40	1.104	0.04	0.134	0.148
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Cheek	0mm	Index 2/3	1312	1712.4	24.97	25.40	1.104	-0.18	0.131	0.145
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Tilted	0mm	Index 2/3	1312	1712.4	24.97	25.40	1.104	0.04	0.120	0.132
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	1312	1712.4	24.75	25.20	1.109	-0.04	0.083	0.092
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	1413	1732.6	24.62	25.20	1.143	0.01	0.104	0.119
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	1513	1752.6	24.60	25.20	1.148	-0.03	0.074	0.085
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	Index 2/3	1312	1712.4	24.75	25.20	1.109	-0.01	0.047	0.052
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	Index 2/3	1312	1712.4	24.75	25.20	1.109	-0.14	0.080	0.089
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	Index 2/3	1312	1712.4	24.75	25.20	1.109	0.03	0.067	0.074
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	Index 2/3	4182	836.4	25.02	25.40	1.091	0	0.222	0.242
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	Index 2/3	4182	836.4	25.02	25.40	1.091	0.02	0.101	0.110
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	Index 2/3	4182	836.4	25.02	25.40	1.091	-0.12	0.294	0.321
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	Index 2/3	4132	826.4	24.86	25.40	1.132	-0.14	0.251	0.284
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	Index 2/3	4233	846.6	24.88	25.40	1.127	0.14	0.258	0.291
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	Index 2/3	4182	836.4	25.02	25.40	1.091	0.01	0.124	0.135
05	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Index 2	4182	836.4	21.02	22.70	1.472	0.01	0.635	0.935
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Index 2	4132	826.4	21.01	22.70	1.476	0.01	0.628	0.927
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Index 2	4233	846.6	20.98	22.70	1.486	0.03	0.624	0.927
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	Index 2	4182	836.4	21.02	22.70	1.472	0.02	0.536	0.789
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Index 2	4182	836.4	21.02	22.70	1.472	0	0.476	0.701
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	Index 2	4182	836.4	21.02	22.70	1.472	0	0.362	0.533
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Index 3	4182	836.4	21.02	22.00	1.253	0.01	0.635	0.796
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Index 3	4132	826.4	21.01	22.00	1.256	0.01	0.628	0.789
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Index 3	4233	846.6	20.98	22.00	1.265	0.03	0.624	0.789
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	Index 3	4182	836.4	21.02	22.00	1.253	0.02	0.536	0.672
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Index 3	4182	836.4	21.02	22.00	1.253	0	0.476	0.596
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	Index 3	4182	836.4	21.02	22.00	1.253	0	0.362	0.454



<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Index 2	18900	1880	15.80	17.00	1.318	0.03	0.656	0.865
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Index 2	18700	1860	15.76	17.00	1.330	0.03	0.621	0.826
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Index 2	19100	1900	15.68	17.00	1.355	0.14	0.632	0.856
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	Index 2	18900	1880	15.70	17.00	1.349	0.12	0.581	0.784
	LTE Band 2_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	Index 2	18900	1880	15.76	17.00	1.330	0.01	0.598	0.796
06	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 2	18900	1880	15.80	17.00	1.318	-0.06	0.749	0.987
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 2	18700	1860	15.76	17.00	1.330	0.11	0.686	0.913
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 2	19100	1900	15.68	17.00	1.355	-0.02	0.725	0.983
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	Index 2	18900	1880	15.70	17.00	1.349	0.13	0.672	0.907
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	Index 2	18700	1860	15.66	17.00	1.361	0.13	0.648	0.882
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	Index 2	19100	1900	15.67	17.00	1.358	0.04	0.666	0.905
	LTE Band 2_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	Index 2	18900	1880	15.76	17.00	1.330	0.04	0.628	0.836
	LTE Band 2_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Index 2	18900	1880	15.80	17.00	1.318	0	0.292	0.385
	LTE Band 2_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	Index 2	18900	1880	15.70	17.00	1.349	0.15	0.283	0.382
	LTE Band 2_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	Index 2	18900	1880	15.80	17.00	1.318	0	0.340	0.448
	LTE Band 2_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	Index 2	18900	1880	15.70	17.00	1.349	0.19	0.306	0.413
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Index 3	18900	1880	15.80	16.30	1.122	0.03	0.656	0.736
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	Index 3	18900	1880	15.70	16.30	1.148	0.12	0.581	0.667
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 3	18900	1880	15.80	16.30	1.122	-0.06	0.749	0.840
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 3	18700	1860	15.76	16.30	1.132	0.11	0.686	0.777
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 3	19100	1900	15.68	16.30	1.153	-0.02	0.725	0.836
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	Index 3	18900	1880	15.70	16.30	1.148	0.13	0.672	0.772
	LTE Band 2_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	Index 3	18900	1880	15.76	16.30	1.132	0.04	0.628	0.711
	LTE Band 2_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Index 3	18900	1880	15.80	16.30	1.122	0	0.292	0.328
	LTE Band 2_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	Index 3	18900	1880	15.70	16.30	1.148	0.15	0.283	0.325
	LTE Band 2_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	Index 3	18900	1880	15.80	16.30	1.122	0	0.340	0.381
	LTE Band 2_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	Index 3	18900	1880	15.70	16.30	1.148	0.19	0.306	0.351
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	Index 2	18900	1880	18.47	19.60	1.297	0.03	0.254	0.329
	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Cheek	0mm	Index 2	18900	1880	18.07	19.60	1.422	-0.12	0.227	0.323
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	Index 2	18900	1880	18.47	19.60	1.297	0.1	0.050	0.065
	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Tilted	0mm	Index 2	18900	1880	18.07	19.60	1.422	0.1	0.042	0.060
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 2	18900	1880	18.47	19.60	1.297	-0.08	0.453	0.588
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 2	18700	1860	17.94	19.60	1.466	-0.17	0.423	0.620
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 2	19100	1900	18.08	19.60	1.419	-0.05	0.459	0.651
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	Index 2	18900	1880	18.07	19.60	1.422	0.18	0.406	0.577
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	Index 2	18900	1880	18.47	19.60	1.297	-0.01	0.066	0.086
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Tilted	0mm	Index 2	18900	1880	18.07	19.60	1.422	0.02	0.059	0.084
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	Index 3	18900	1880	18.47	18.90	1.104	0.03	0.254	0.280
	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Cheek	0mm	Index 3	18900	1880	18.07	18.90	1.211	-0.12	0.227	0.275
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	Index 3	18900	1880	18.47	18.90	1.104	0.1	0.050	0.055
	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Tilted	0mm	Index 3	18900	1880	18.07	18.90	1.211	0.1	0.042	0.051
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 3	18900	1880	18.47	18.90	1.104	-0.08	0.453	0.500
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 3	18700	1860	17.94	18.90	1.247	-0.17	0.423	0.528
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 3	19100	1900	18.08	18.90	1.208	-0.05	0.459	0.554
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	Index 3	18900	1880	18.07	18.90	1.211	0.18	0.406	0.492
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	Index 3	18900	1880	18.47	18.90	1.104	-0.01	0.066	0.073
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Tilted	0mm	Index 3	18900	1880	18.07	18.90	1.211	0.02	0.059	0.071



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
07	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	20850	2510	25.13	25.40	1.064	-0.18	0.550	0.585	
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	21100	2535	24.91	25.40	1.119	-0.01	0.679	0.760	
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	21350	2560	24.93	25.40	1.114	0.1	0.658	0.733	
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	20850	2510	24.01	24.40	1.094	0.06	0.523	0.572	
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	20850	2510	25.13	25.40	1.064	0.11	0.196	0.209	
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	20850	2510	24.01	24.40	1.094	0.11	0.150	0.164	
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	20850	2510	25.13	25.40	1.064	-0.03	0.347	0.369	
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	20850	2510	24.01	24.40	1.094	0.07	0.267	0.292	
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	20850	2510	25.13	25.40	1.064	0.12	0.325	0.346	
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	20850	2510	24.01	24.40	1.094	0.19	0.248	0.271	
LTE Band 7C_Ant 2	20M+20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	20850	2510	23.66	23.90	1.057	0.04	0.471	0.498		
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	20850	2510	24.28	25.00	1.180	-0.03	0.084	0.099	
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	20850	2510	23.14	24.00	1.219	-0.17	0.064	0.078	
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	20850	2510	24.28	25.00	1.180	0.06	0.059	0.070	
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	20850	2510	23.14	24.00	1.219	-0.17	0.045	0.055	
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	20850	2510	24.28	25.00	1.180	0.06	0.194	0.229	
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	21100	2535	23.93	25.00	1.279	0.02	0.210	0.269	
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	21350	2560	23.83	25.00	1.309	-0.15	0.143	0.187	
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	20850	2510	23.14	24.00	1.219	0.09	0.149	0.182	
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	20850	2510	24.28	25.00	1.180	-0.02	0.050	0.059	
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	20850	2510	23.14	24.00	1.219	0.02	0.038	0.046	
LTE Band 7C_Ant 0	20M+20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	20850	2510	22.81	24.50	1.476	-0.08	0.150	0.221		
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Index 2/3	23095	707.5	24.93	25.40	1.114	0.19	0.151	0.168	
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	Index 2/3	23095	707.5	23.92	24.40	1.117	-0.07	0.120	0.134	
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	Index 2/3	23095	707.5	24.93	25.40	1.114	-0.01	0.073	0.081	
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	Index 2/3	23095	707.5	23.92	24.40	1.117	-0.02	0.058	0.065	
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	Index 2/3	23095	707.5	24.93	25.40	1.114	0.02	0.221	0.246	
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	Index 2/3	23095	707.5	23.92	24.40	1.117	-0.01	0.175	0.195	
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	Index 2/3	23095	707.5	24.93	25.40	1.114	-0.02	0.097	0.108	
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	Index 2/3	23095	707.5	23.92	24.40	1.117	0.07	0.076	0.085	
	08	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	Index 2	23095	707.5	21.81	23.20	1.377	-0.03	0.722	0.994
		LTE Band 12_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	Index 2	23095	707.5	21.80	23.20	1.380	-0.03	0.706	0.975
LTE Band 12_Ant 1		10M	QPSK	50	0	Right Cheek	0mm	Index 2	23095	707.5	21.77	23.20	1.390	0.02	0.675	0.938	
LTE Band 12_Ant 1		10M	QPSK	1	0	Right Tilted	0mm	Index 2	23095	707.5	21.81	23.20	1.377	0.01	0.579	0.797	
LTE Band 12_Ant 1		10M	QPSK	25	0	Right Tilted	0mm	Index 2	23095	707.5	21.80	23.20	1.380	-0.15	0.571	0.788	
LTE Band 12_Ant 1		10M	QPSK	1	0	Left Cheek	0mm	Index 2	23095	707.5	21.81	23.20	1.377	-0.06	0.415	0.572	
LTE Band 12_Ant 1		10M	QPSK	25	0	Left Cheek	0mm	Index 2	23095	707.5	21.80	23.20	1.380	-0.15	0.408	0.563	
LTE Band 12_Ant 1		10M	QPSK	1	0	Left Tilted	0mm	Index 2	23095	707.5	21.81	23.20	1.377	0.01	0.423	0.583	
LTE Band 12_Ant 1		10M	QPSK	25	0	Left Tilted	0mm	Index 2	23095	707.5	21.80	23.20	1.380	-0.09	0.405	0.559	
LTE Band 12_Ant 1		10M	QPSK	1	0	Right Cheek	0mm	Index 3	23095	707.5	21.81	22.50	1.172	-0.03	0.722	0.846	
LTE Band 12_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	Index 3	23095	707.5	21.80	22.50	1.175	-0.03	0.706	0.829		
LTE Band 12_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	Index 3	23095	707.5	21.77	22.50	1.183	0.02	0.675	0.799		
LTE Band 12_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	Index 3	23095	707.5	21.81	22.50	1.172	0.01	0.579	0.679		
LTE Band 12_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	Index 3	23095	707.5	21.80	22.50	1.175	-0.15	0.571	0.671		
LTE Band 12_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	Index 3	23095	707.5	21.81	22.50	1.172	-0.06	0.415	0.486		
LTE Band 12_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	Index 3	23095	707.5	21.80	22.50	1.175	-0.15	0.408	0.479		
LTE Band 12_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	Index 3	23095	707.5	21.81	22.50	1.172	0.01	0.423	0.496		
LTE Band 12_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	Index 3	23095	707.5	21.80	22.50	1.175	-0.09	0.405	0.476		



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Index 2/3	23230	782	24.76	25.40	1.159	-0.11	0.171	0.198
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	Index 2/3	23230	782	23.90	24.40	1.122	-0.03	0.139	0.156
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	Index 2/3	23230	782	24.76	25.40	1.159	0.07	0.097	0.112
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	Index 2/3	23230	782	23.90	24.40	1.122	-0.08	0.079	0.089
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	Index 2/3	23230	782	24.76	25.40	1.159	-0.05	0.243	0.282
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	Index 2/3	23230	782	23.90	24.40	1.122	-0.01	0.199	0.223
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	Index 2/3	23230	782	24.76	25.40	1.159	-0.04	0.122	0.141
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	Index 2/3	23230	782	23.90	24.40	1.122	-0.01	0.100	0.112
09	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	Index 2	23230	782	23.16	24.20	1.271	-0.05	0.638	0.811
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	Index 2	23230	782	23.15	24.20	1.274	-0.13	0.622	0.792
	LTE Band 13_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	Index 2	23230	782	23.13	24.20	1.279	-0.01	0.601	0.769
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	Index 2	23230	782	23.16	24.20	1.271	-0.06	0.635	0.807
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	Index 2	23230	782	23.15	24.20	1.274	0.04	0.606	0.772
	LTE Band 13_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	Index 2	23230	782	23.13	24.20	1.279	0.03	0.594	0.760
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	Index 2	23230	782	23.16	24.20	1.271	0	0.506	0.643
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	Index 2	23230	782	23.15	24.20	1.274	0.16	0.481	0.613
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	Index 2	23230	782	23.16	24.20	1.271	0.04	0.471	0.598
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	Index 2	23230	782	23.15	24.20	1.274	-0.01	0.438	0.558
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	Index 3	23230	782	23.16	23.50	1.081	-0.05	0.638	0.690
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	Index 3	23230	782	23.15	23.50	1.084	-0.13	0.622	0.674
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	Index 3	23230	782	23.16	23.50	1.081	-0.06	0.635	0.687
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	Index 3	23230	782	23.15	23.50	1.084	0.04	0.606	0.657
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	Index 3	23230	782	23.16	23.50	1.081	0	0.506	0.547
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	Index 3	23230	782	23.15	23.50	1.084	0.16	0.481	0.521
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	Index 3	23230	782	23.16	23.50	1.081	0.04	0.471	0.509
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	Index 3	23230	782	23.15	23.50	1.084	-0.01	0.438	0.475
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Index 2/3	23330	793	24.77	25.40	1.156	-0.02	0.176	0.203
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	Index 2/3	23330	793	23.94	24.40	1.112	0.13	0.145	0.161
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	Index 2/3	23330	793	24.77	25.40	1.156	0.03	0.103	0.119
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	Index 2/3	23330	793	23.94	24.40	1.112	0.09	0.085	0.094
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	Index 2/3	23330	793	24.77	25.40	1.156	-0.01	0.248	0.287
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	Index 2/3	23330	793	23.94	24.40	1.112	0.19	0.205	0.228
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	Index 2/3	23330	793	24.77	25.40	1.156	-0.17	0.138	0.160
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	Index 2/3	23330	793	23.94	24.40	1.112	0.19	0.114	0.127
10	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	Index 2	23330	793	22.12	23.30	1.312	0.03	0.647	0.849
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	Index 2	23330	793	22.10	23.30	1.318	-0.18	0.631	0.832
	LTE Band 14_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	Index 2	23330	793	22.06	23.30	1.330	0.04	0.615	0.818
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	Index 2	23330	793	22.12	23.30	1.312	-0.01	0.601	0.789
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	Index 2	23330	793	22.10	23.30	1.318	-0.19	0.572	0.754
	LTE Band 14_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	Index 2	23330	793	22.06	23.30	1.330	0.05	0.548	0.729
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	Index 2	23330	793	22.12	23.30	1.312	-0.11	0.421	0.552
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	Index 2	23330	793	22.10	23.30	1.318	0.18	0.406	0.535
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	Index 2	23330	793	22.12	23.30	1.312	0.04	0.451	0.592
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	Index 2	23330	793	22.10	23.30	1.318	-0.18	0.432	0.569
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	Index 3	23330	793	22.12	22.60	1.117	0.03	0.647	0.723
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	Index 3	23330	793	22.10	22.60	1.122	-0.18	0.631	0.708
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	Index 3	23330	793	22.12	22.60	1.117	-0.01	0.601	0.671
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	Index 3	23330	793	22.10	22.60	1.122	-0.19	0.572	0.642
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	Index 3	23330	793	22.12	22.60	1.117	-0.11	0.421	0.470
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	Index 3	23330	793	22.10	22.60	1.122	0.18	0.406	0.456
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	Index 3	23330	793	22.12	22.60	1.117	0.04	0.451	0.504
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	Index 3	23330	793	22.10	22.60	1.122	-0.18	0.432	0.485



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	26340	1880	24.85	25.40	1.135	0.17	0.664	0.754
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	26140	1860	24.53	25.40	1.222	-0.14	0.606	0.740
11	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	26590	1905	24.52	25.40	1.225	0.01	0.646	0.791
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	26340	1880	23.27	23.90	1.156	-0.17	0.461	0.533
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	26340	1880	24.85	25.40	1.135	-0.02	0.313	0.355
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	26340	1880	23.27	23.90	1.156	-0.05	0.217	0.251
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	26340	1880	24.85	25.40	1.135	0.08	0.332	0.377
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	26340	1880	23.27	23.90	1.156	-0.15	0.230	0.266
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	26340	1880	24.85	25.40	1.135	-0.08	0.247	0.280
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	26340	1880	23.27	23.90	1.156	-0.13	0.171	0.198
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	26340	1880	24.49	25.20	1.178	0.07	0.055	0.065
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	26340	1880	22.88	23.70	1.208	0.17	0.038	0.046
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	26340	1880	24.49	25.20	1.178	-0.01	0.043	0.051
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	26340	1880	22.88	23.70	1.208	0.07	0.029	0.035
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	26340	1880	24.49	25.20	1.178	-0.14	0.077	0.091
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	26140	1860	24.17	25.20	1.268	-0.05	0.068	0.086
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	26590	1905	24.09	25.20	1.291	0.03	0.069	0.089
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	26340	1880	22.88	23.70	1.208	0.06	0.052	0.063
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	26340	1880	24.49	25.20	1.178	0.07	0.045	0.053
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	26340	1880	22.88	23.70	1.208	0.13	0.031	0.037
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Cheek	0mm	Index 2/3	26865	831.5	24.39	25.40	1.262	0.03	0.189	0.238
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Cheek	0mm	Index 2/3	26865	831.5	23.50	24.40	1.230	0.13	0.139	0.171
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Tilted	0mm	Index 2/3	26865	831.5	24.39	25.40	1.262	-0.08	0.093	0.117
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Tilted	0mm	Index 2/3	26865	831.5	23.50	24.40	1.230	-0.04	0.073	0.090
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Cheek	0mm	Index 2/3	26865	831.5	24.39	25.40	1.262	0.01	0.286	0.361
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Cheek	0mm	Index 2/3	26865	831.5	23.50	24.40	1.230	-0.14	0.233	0.287
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Tilted	0mm	Index 2/3	26865	831.5	24.39	25.40	1.262	0.04	0.125	0.158
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Tilted	0mm	Index 2/3	26865	831.5	23.50	24.40	1.230	-0.14	0.086	0.106
	LTE Band 5B_Ant 0	10M+10M	QPSK	1	49	Left Cheek	0mm	Index 2/3	20475	831.5	22.75	23.70	1.245	0.06	0.192	0.239
12	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Cheek	0mm	Index 2	26865	831.5	20.25	21.80	1.429	0.02	0.619	0.884
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Cheek	0mm	Index 2	26865	831.5	20.20	21.80	1.445	0.1	0.601	0.869
	LTE Band 26_Ant 1	15M	QPSK	75	0	Right Cheek	0mm	Index 2	26865	831.5	20.16	21.80	1.459	0.11	0.582	0.849
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Tilted	0mm	Index 2	26865	831.5	20.25	21.80	1.429	0.01	0.474	0.677
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Tilted	0mm	Index 2	26865	831.5	20.20	21.80	1.445	0.07	0.422	0.610
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	Index 2	26865	831.5	20.25	21.80	1.429	-0.02	0.320	0.457
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Cheek	0mm	Index 2	26865	831.5	20.20	21.80	1.445	-0.19	0.305	0.441
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Tilted	0mm	Index 2	26865	831.5	20.25	21.80	1.429	0.02	0.336	0.480
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Tilted	0mm	Index 2	26865	831.5	20.20	21.80	1.445	0.05	0.303	0.438
	LTE Band 5B_Ant 1	10M+10M	QPSK	1	49	Right Cheek	0mm	Index 2	20475	831.5	18.59	20.50	1.552	0.09	0.415	0.644
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Cheek	0mm	Index 3	26865	831.5	20.25	21.10	1.216	0.02	0.619	0.753
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Cheek	0mm	Index 3	26865	831.5	20.20	21.10	1.230	0.1	0.601	0.739
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Tilted	0mm	Index 3	26865	831.5	20.25	21.10	1.216	0.01	0.474	0.576
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Tilted	0mm	Index 3	26865	831.5	20.20	21.10	1.230	0.07	0.422	0.519
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	Index 3	26865	831.5	20.25	21.10	1.216	-0.02	0.320	0.389
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Cheek	0mm	Index 3	26865	831.5	20.20	21.10	1.230	-0.19	0.305	0.375
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Tilted	0mm	Index 3	26865	831.5	20.25	21.10	1.216	0.02	0.336	0.409
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Tilted	0mm	Index 3	26865	831.5	20.20	21.10	1.230	0.05	0.303	0.373
	LTE Band 5B_Ant 1	10M+10M	QPSK	1	49	Right Cheek	0mm	Index 3	20475	831.5	18.59	19.80	1.321	0.09	0.415	0.548



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
13	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Cheek	0mm	Index 2/3	27710	2310	22.65	23.10	1.109	0.03	0.194	0.215
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Cheek	0mm	Index 2/3	27710	2310	22.52	23.10	1.143	-0.17	0.170	0.194
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Tilted	0mm	Index 2/3	27710	2310	22.65	23.10	1.109	0.07	0.085	0.094
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Tilted	0mm	Index 2/3	27710	2310	22.52	23.10	1.143	-0.06	0.065	0.074
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Cheek	0mm	Index 2/3	27710	2310	22.65	23.10	1.109	0.11	0.124	0.138
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Cheek	0mm	Index 2/3	27710	2310	22.52	23.10	1.143	0.09	0.113	0.129
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Tilted	0mm	Index 2/3	27710	2310	22.65	23.10	1.109	0	0.097	0.108
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Tilted	0mm	Index 2/3	27710	2310	22.52	23.10	1.143	0.12	0.071	0.081
	LTE Band 30_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Index 2/3	27710	2310	22.32	23.40	1.282	-0.12	0.062	0.080
	LTE Band 30_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	Index 2/3	27710	2310	22.31	23.40	1.285	-0.06	0.048	0.062
	LTE Band 30_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	Index 2/3	27710	2310	22.32	23.40	1.282	0.04	0.066	0.085
	LTE Band 30_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	Index 2/3	27710	2310	22.31	23.40	1.285	-0.06	0.051	0.066
	LTE Band 30_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	Index 2/3	27710	2310	22.32	23.40	1.282	-0.03	0.071	0.091
	LTE Band 30_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	Index 2/3	27710	2310	22.31	23.40	1.285	0.13	0.056	0.072
	LTE Band 30_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	Index 2/3	27710	2310	22.32	23.40	1.282	-0.16	0.055	0.071
	LTE Band 30_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	Index 2/3	27710	2310	22.31	23.40	1.285	0.13	0.043	0.055
LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	132572	1770	24.75	25.40	1.161	-0.06	0.436	0.506	
LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	132072	1720	24.50	25.40	1.230	0.02	0.384	0.472	
LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	132322	1745	24.51	25.40	1.227	0.1	0.398	0.489	
LTE Band 66_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	132572	1770	23.18	23.90	1.180	-0.1	0.303	0.358	
LTE Band 66_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	132572	1770	24.75	25.40	1.161	0.03	0.229	0.266	
LTE Band 66_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	132572	1770	23.18	23.90	1.180	0.12	0.159	0.188	
LTE Band 66_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	132572	1770	24.75	25.40	1.161	-0.03	0.192	0.223	
LTE Band 66_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	132572	1770	23.18	23.90	1.180	-0.04	0.133	0.157	
LTE Band 66_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	132572	1770	24.75	25.40	1.161	-0.04	0.216	0.251	
LTE Band 66_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	132572	1770	23.18	23.90	1.180	0.11	0.150	0.177	
LTE Band 66B_Ant 2	15M+5M	QPSK	1	0	Right Cheek	0mm	Index 2/3	132322	1745	22.92	23.80	1.225	-0.02	0.284	0.348	
LTE Band 66C_Ant 2	20M+20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	132322	1745	22.93	23.80	1.222	0.01	0.291	0.356	
LTE Band 66_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	132572	1770	24.33	25.20	1.222	-0.09	0.073	0.089	
LTE Band 66_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	132072	1720	24.23	25.20	1.250	-0.18	0.077	0.096	
LTE Band 66_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	132322	1745	24.24	25.20	1.247	-0.05	0.084	0.105	
LTE Band 66_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	132572	1770	22.73	23.70	1.250	-0.17	0.050	0.063	
LTE Band 66_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	132572	1770	24.33	25.20	1.222	0.03	0.051	0.062	
LTE Band 66_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	132572	1770	22.73	23.70	1.250	0.09	0.035	0.044	
LTE Band 66_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	132572	1770	24.33	25.20	1.222	-0.01	0.059	0.072	
LTE Band 66_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	132572	1770	22.73	23.70	1.250	-0.04	0.040	0.050	
LTE Band 66_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	132572	1770	24.33	25.20	1.222	0.05	0.080	0.098	
LTE Band 66_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	132572	1770	22.73	23.70	1.250	-0.13	0.055	0.069	
LTE Band 66B_Ant 0	15M+5M	QPSK	1	0	Right Cheek	0mm	Index 2/3	132322	1745	22.61	24.40	1.510	0.06	0.055	0.083	
LTE Band 66C_Ant 0	20M+20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	132322	1745	22.95	24.40	1.396	0.01	0.062	0.087	
LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Index 2	132322	1745	16.81	18.00	1.315	0	0.603	0.793	
LTE Band 66_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	Index 2	132322	1745	16.60	18.00	1.380	0.18	0.539	0.744	
14	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 2	132322	1745	16.81	18.00	1.315	-0.02	0.713	0.938
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 2	132072	1720	16.72	18.00	1.343	-0.09	0.672	0.902
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 2	132572	1770	16.69	18.00	1.352	0.04	0.676	0.914
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	Index 2	132322	1745	16.60	18.00	1.380	0.04	0.640	0.883
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	Index 2	132072	1720	16.58	18.00	1.387	0.08	0.602	0.835
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	Index 2	132572	1770	16.59	18.00	1.384	-0.05	0.597	0.826
	LTE Band 66_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	Index 2	132322	1745	16.64	18.00	1.368	-0.09	0.604	0.826
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Index 2	132322	1745	16.81	18.00	1.315	-0.01	0.271	0.356
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	Index 2	132322	1745	16.60	18.00	1.380	-0.02	0.242	0.334
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	Index 2	132322	1745	16.81	18.00	1.315	0.01	0.357	0.470



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LTE Band 66_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	Index 2	132322	1745	16.60	18.00	1.380	0.02	0.329	0.454
LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Index 3	132322	1745	16.81	17.30	1.119	0	0.603	0.675
LTE Band 66_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	Index 3	132322	1745	16.60	17.30	1.175	0.18	0.539	0.633
LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 3	132322	1745	16.81	17.30	1.119	-0.02	0.713	0.798
LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 3	132072	1720	16.72	17.30	1.143	-0.09	0.672	0.768
LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 3	132572	1770	16.69	17.30	1.151	0.04	0.676	0.778
LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	Index 3	132322	1745	16.60	17.30	1.175	0.04	0.640	0.752
LTE Band 66_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Index 3	132322	1745	16.81	17.30	1.119	-0.01	0.271	0.303
LTE Band 66_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	Index 3	132322	1745	16.60	17.30	1.175	-0.02	0.242	0.284
LTE Band 66_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	Index 3	132322	1745	16.81	17.30	1.119	0.01	0.357	0.400
LTE Band 66_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	Index 3	132322	1745	16.60	17.30	1.175	0.02	0.329	0.387
LTE Band 66_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	Index 2	132072	1720	19.72	20.50	1.197	0.07	0.301	0.360
LTE Band 66_Ant 5	20M	QPSK	50	0	Right Cheek	0mm	Index 2	132072	1720	19.54	20.50	1.247	-0.13	0.278	0.347
LTE Band 66_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	Index 2	132072	1720	19.72	20.50	1.197	0.18	0.053	0.063
LTE Band 66_Ant 5	20M	QPSK	50	0	Right Tilted	0mm	Index 2	132072	1720	19.54	20.50	1.247	-0.01	0.034	0.042
LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 2	132072	1720	19.72	20.50	1.197	0.08	0.575	0.688
LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 2	132322	1745	19.66	20.50	1.213	-0.08	0.476	0.578
LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 2	132572	1770	19.66	20.50	1.213	-0.16	0.484	0.587
LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	Index 2	132072	1720	19.54	20.50	1.247	0.12	0.495	0.617
LTE Band 66_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	Index 2	132072	1720	19.72	20.50	1.197	0.15	0.079	0.095
LTE Band 66_Ant 5	20M	QPSK	50	0	Left Tilted	0mm	Index 2	132072	1720	19.54	20.50	1.247	0.02	0.063	0.079
LTE Band 66_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	Index 3	132072	1720	19.72	19.80	1.019	0.07	0.301	0.307
LTE Band 66_Ant 5	20M	QPSK	50	0	Right Cheek	0mm	Index 3	132072	1720	19.54	19.80	1.062	-0.13	0.278	0.295
LTE Band 66_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	Index 3	132072	1720	19.72	19.80	1.019	0.18	0.053	0.054
LTE Band 66_Ant 5	20M	QPSK	50	0	Right Tilted	0mm	Index 3	132072	1720	19.54	19.80	1.062	-0.01	0.034	0.036
LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 3	132072	1720	19.72	19.80	1.019	0.08	0.575	0.586
LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 3	132322	1745	19.66	19.80	1.033	-0.08	0.476	0.492
LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Index 3	132572	1770	19.66	19.80	1.033	-0.16	0.484	0.500
LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	Index 3	132072	1720	19.54	19.80	1.062	0.12	0.495	0.526
LTE Band 66_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	Index 3	132072	1720	19.72	19.80	1.019	0.15	0.079	0.080
LTE Band 66_Ant 5	20M	QPSK	50	0	Left Tilted	0mm	Index 3	132072	1720	19.54	19.80	1.062	0.02	0.063	0.067



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	133297	680.5	24.61	25.40	1.199	-0.13	0.159	0.191
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	133297	680.5	23.60	24.40	1.202	0.03	0.125	0.150
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	133297	680.5	24.61	25.40	1.199	0.19	0.075	0.090
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	133297	680.5	23.60	24.40	1.202	0.02	0.059	0.071
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	133297	680.5	24.61	25.40	1.199	-0.04	0.181	0.217
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	133297	680.5	23.60	24.40	1.202	0.01	0.143	0.172
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	133297	680.5	24.61	25.40	1.199	-0.11	0.084	0.101
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	133297	680.5	23.60	24.40	1.202	0.06	0.066	0.079
15	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Index 2	133297	680.5	22.46	23.90	1.393	0.08	0.705	0.982
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	Index 2	133297	680.5	22.53	23.90	1.371	0.05	0.700	0.960
	LTE Band 71_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	Index 2	133297	680.5	22.45	23.90	1.396	0.01	0.654	0.913
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 2	133297	680.5	22.46	23.90	1.393	0.07	0.566	0.789
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	Index 2	133297	680.5	22.53	23.90	1.371	0.02	0.553	0.758
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Index 2	133297	680.5	22.46	23.90	1.393	0	0.227	0.316
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	Index 2	133297	680.5	22.53	23.90	1.371	-0.02	0.218	0.299
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	Index 2	133297	680.5	22.46	23.90	1.393	0.01	0.377	0.525
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	Index 2	133297	680.5	22.53	23.90	1.371	0.18	0.354	0.485
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Index 3	133297	680.5	22.46	23.20	1.186	0.08	0.705	0.836
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	Index 3	133297	680.5	22.53	23.20	1.167	0.05	0.700	0.817
	LTE Band 71_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	Index 3	133297	680.5	22.45	23.20	1.189	0.01	0.654	0.777
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Index 3	133297	680.5	22.46	23.20	1.186	0.07	0.566	0.671
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	Index 3	133297	680.5	22.53	23.20	1.167	0.02	0.553	0.645
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Index 3	133297	680.5	22.46	23.20	1.186	0	0.227	0.269
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	Index 3	133297	680.5	22.53	23.20	1.167	-0.02	0.218	0.254
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	Index 3	133297	680.5	22.46	23.20	1.186	0.01	0.377	0.447
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	Index 3	133297	680.5	22.53	23.20	1.167	0.18	0.354	0.413



<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	39750	2506	23.51	23.90	1.094	62.9	1.006	0.04	0.247	0.272
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	40185	2549.5	23.18	23.90	1.180	62.9	1.006	0	0.242	0.287
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	40620	2593	23.26	23.90	1.159	62.9	1.006	-0.03	0.242	0.282
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	41055	2636.5	23.31	23.90	1.146	62.9	1.006	0.04	0.215	0.248
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	41490	2680	23.16	23.90	1.186	62.9	1.006	0.13	0.175	0.209
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	39750	2506	22.45	22.90	1.109	62.9	1.006	0.11	0.193	0.215
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	39750	2506	23.51	23.90	1.094	62.9	1.006	-0.07	0.101	0.111
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	39750	2506	22.45	22.90	1.109	62.9	1.006	-0.11	0.056	0.062
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	39750	2506	23.51	23.90	1.094	62.9	1.006	-0.09	0.146	0.161
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	39750	2506	22.45	22.90	1.109	62.9	1.006	0.09	0.077	0.086
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	39750	2506	23.51	23.90	1.094	62.9	1.006	-0.13	0.138	0.152
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	39750	2506	22.45	22.90	1.109	62.9	1.006	0.11	0.089	0.099
16	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	39750	2506	26.31	26.90	1.146	42.9	1.009	0.01	0.309	0.357
	LTE Band 38C_Ant 2	20M+20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	38150	2610	23.23	23.90	1.167	62.9	1.006	-0.02	0.216	0.254
	LTE Band 41C_Ant 2	20M+20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	39750	2506	23.50	23.90	1.096	62.9	1.006	0.09	0.238	0.263
	LTE Band 41_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	39750	2506	22.58	23.50	1.236	62.9	1.006	-0.04	0.046	0.057
	LTE Band 41_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	39750	2506	21.50	22.50	1.259	62.9	1.006	0.09	0.036	0.046
	LTE Band 41_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	39750	2506	22.58	23.50	1.236	62.9	1.006	-0.07	0.029	0.036
	LTE Band 41_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	39750	2506	21.50	22.50	1.259	62.9	1.006	0.13	0.022	0.028
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	39750	2506	22.58	23.50	1.236	62.9	1.006	-0.19	0.075	0.093
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	40185	2549.5	22.10	23.50	1.380	62.9	1.006	0.04	0.062	0.086
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	40620	2593	22.36	23.50	1.300	62.9	1.006	0.15	0.040	0.052
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	41055	2636.5	22.41	23.50	1.285	62.9	1.006	0.08	0.050	0.065
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	41490	2680	22.39	23.50	1.291	62.9	1.006	0.15	0.045	0.058
	LTE Band 41_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	39750	2506	21.50	22.50	1.259	62.9	1.006	0.01	0.062	0.079
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	39750	2506	22.58	23.50	1.236	62.9	1.006	0.04	0.018	0.022
	LTE Band 41_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	39750	2506	21.50	22.50	1.259	62.9	1.006	0.19	0.015	0.019
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	39750	2506	25.54	26.50	1.247	42.9	1.009	-0.15	0.091	0.115
	LTE Band 38C_Ant 0	20M+20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	38150	2610	22.23	23.50	1.340	62.9	1.006	0.01	0.053	0.071
	LTE Band 41C_Ant 0	20M+20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	39750	2506	22.55	23.50	1.245	62.9	1.006	0.04	0.068	0.085
	LTE Band 48_Ant 6	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	56150	3641	21.14	22.40	1.337	62.9	1.006	-0.09	0.126	0.169
	LTE Band 48_Ant 6	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	56150	3641	21.12	22.40	1.343	62.9	1.006	0.01	0.100	0.135
	LTE Band 48_Ant 6	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	56150	3641	21.14	22.40	1.337	62.9	1.006	0.01	0.112	0.151
	LTE Band 48_Ant 6	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	56150	3641	21.12	22.40	1.343	62.9	1.006	0.18	0.089	0.120
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	56150	3641	21.14	22.40	1.337	62.9	1.006	0.02	0.191	0.257
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	55340	3560	20.88	22.40	1.419	62.9	1.006	0.09	0.173	0.247
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	55830	3609	20.75	22.40	1.462	62.9	1.006	0.19	0.157	0.231
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	56640	3690	20.80	22.40	1.445	62.9	1.006	-0.01	0.130	0.189
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	56150	3641	21.12	22.40	1.343	62.9	1.006	0.13	0.152	0.205
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	56150	3641	21.14	22.40	1.337	62.9	1.006	-0.12	0.071	0.095
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	56150	3641	21.12	22.40	1.343	62.9	1.006	-0.06	0.057	0.077
	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	56150	3641	23.10	24.70	1.445	62.9	1.006	0.05	0.340	0.494
17	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	55340	3560	22.92	24.70	1.507	62.9	1.006	-0.07	0.392	0.594
	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	55830	3609	22.88	24.70	1.521	62.9	1.006	0.08	0.348	0.532
	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Cheek	0mm	Index 2/3	56640	3690	22.86	24.70	1.528	62.9	1.006	0.13	0.201	0.309
	LTE Band 48_Ant 7	20M	QPSK	50	0	Right Cheek	0mm	Index 2/3	56150	3641	21.96	23.70	1.493	62.9	1.006	-0.12	0.266	0.399
	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Tilted	0mm	Index 2/3	56150	3641	23.10	24.70	1.445	62.9	1.006	-0.05	0.059	0.086
	LTE Band 48_Ant 7	20M	QPSK	50	0	Right Tilted	0mm	Index 2/3	56150	3641	21.96	23.70	1.493	62.9	1.006	0.06	0.050	0.075
	LTE Band 48_Ant 7	20M	QPSK	1	0	Left Cheek	0mm	Index 2/3	56150	3641	23.10	24.70	1.445	62.9	1.006	0.01	0.169	0.246
	LTE Band 48_Ant 7	20M	QPSK	50	0	Left Cheek	0mm	Index 2/3	56150	3641	21.96	23.70	1.493	62.9	1.006	0.06	0.132	0.198
	LTE Band 48_Ant 7	20M	QPSK	1	0	Left Tilted	0mm	Index 2/3	56150	3641	23.10	24.70	1.445	62.9	1.006	-0.06	0.117	0.170
	LTE Band 48_Ant 7	20M	QPSK	50	0	Left Tilted	0mm	Index 2/3	56150	3641	21.96	23.70	1.493	62.9	1.006	-0.01	0.091	0.137



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n2_Ant 1	20M	QPSK	1	1	Right Cheek	0mm	Index 2	376000	1880	16.20	17.20	1.259	-0.1	0.592	0.745
	FR1 n2_Ant 1	20M	QPSK	50	28	Right Cheek	0mm	Index 2	376000	1880	16.09	17.20	1.291	0.17	0.557	0.719
	FR1 n2_Ant 1	20M	QPSK	1	1	Right Tilted	0mm	Index 2	376000	1880	16.20	17.20	1.259	0.01	0.733	0.923
	FR1 n2_Ant 1	20M	QPSK	1	1	Right Tilted	0mm	Index 2	372000	1860	16.05	17.20	1.303	-0.08	0.720	0.938
18	FR1 n2_Ant 1	20M	QPSK	1	1	Right Tilted	0mm	Index 2	380000	1900	16.15	17.20	1.274	-0.14	0.783	0.997
	FR1 n2_Ant 1	20M	QPSK	50	28	Right Tilted	0mm	Index 2	376000	1880	16.09	17.20	1.291	0.1	0.732	0.945
	FR1 n2_Ant 1	20M	QPSK	50	28	Right Tilted	0mm	Index 2	372000	1860	15.85	17.20	1.365	0.12	0.685	0.935
	FR1 n2_Ant 1	20M	QPSK	50	28	Right Tilted	0mm	Index 2	372000	1860	15.85	17.20	1.365	-0.08	0.672	0.917
	FR1 n2_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	Index 2	376000	1880	16.06	17.20	1.300	0.02	0.705	0.917
	FR1 n2_Ant 1	20M	QPSK	1	1	Left Cheek	0mm	Index 2	376000	1880	16.20	17.20	1.259	-0.07	0.274	0.345
	FR1 n2_Ant 1	20M	QPSK	50	28	Left Cheek	0mm	Index 2	376000	1880	16.09	17.20	1.291	0.05	0.245	0.316
	FR1 n2_Ant 1	20M	QPSK	1	1	Left Tilted	0mm	Index 2	376000	1880	16.20	17.20	1.259	-0.05	0.333	0.419
	FR1 n2_Ant 1	20M	QPSK	50	28	Left Tilted	0mm	Index 2	376000	1880	16.09	17.20	1.291	-0.18	0.309	0.399
	FR1 n2_Ant 1	20M	QPSK	1	1	Right Cheek	0mm	Index 3	376000	1880	16.20	16.50	1.072	-0.1	0.592	0.634
	FR1 n2_Ant 1	20M	QPSK	50	28	Right Cheek	0mm	Index 3	376000	1880	16.09	16.50	1.099	0.17	0.557	0.612
	FR1 n2_Ant 1	20M	QPSK	1	1	Right Tilted	0mm	Index 3	376000	1880	16.20	16.50	1.072	0.013	0.733	0.785
	FR1 n2_Ant 1	20M	QPSK	1	1	Right Tilted	0mm	Index 3	372000	1860	16.05	16.50	1.109	-0.08	0.725	0.804
	FR1 n2_Ant 1	20M	QPSK	1	1	Right Tilted	0mm	Index 3	380000	1900	16.15	16.50	1.084	-0.14	0.783	0.849
	FR1 n2_Ant 1	20M	QPSK	50	28	Right Tilted	0mm	Index 3	376000	1880	16.09	16.50	1.099	0.1	0.608	0.668
	FR1 n2_Ant 1	20M	QPSK	50	28	Right Tilted	0mm	Index 3	372000	1860	15.85	16.50	1.161	0.12	0.685	0.796
	FR1 n2_Ant 1	20M	QPSK	50	28	Right Tilted	0mm	Index 3	380000	1900	16.08	16.50	1.102	-0.08	0.672	0.740
	FR1 n2_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	Index 3	376000	1880	16.06	16.50	1.107	0.02	0.705	0.780
	FR1 n2_Ant 1	20M	QPSK	1	1	Left Cheek	0mm	Index 3	376000	1880	16.20	16.50	1.072	-0.07	0.274	0.294
	FR1 n2_Ant 1	20M	QPSK	50	28	Left Cheek	0mm	Index 3	376000	1880	16.09	16.50	1.099	0.05	0.245	0.269
	FR1 n2_Ant 1	20M	QPSK	1	1	Left Tilted	0mm	Index 3	376000	1880	16.20	16.50	1.072	-0.05	0.333	0.357
	FR1 n2_Ant 1	20M	QPSK	50	28	Left Tilted	0mm	Index 3	376000	1880	16.09	16.50	1.099	-0.18	0.309	0.340
	FR1 n2_Ant 5	20M	QPSK	1	1	Right Cheek	0mm	Index 2	376000	1880	17.38	18.70	1.355	0.16	0.279	0.378
	FR1 n2_Ant 5	20M	QPSK	50	28	Right Cheek	0mm	Index 2	376000	1880	17.29	18.70	1.384	0.03	0.268	0.371
	FR1 n2_Ant 5	20M	QPSK	1	1	Right Tilted	0mm	Index 2	376000	1880	17.38	18.70	1.355	-0.17	0.070	0.095
	FR1 n2_Ant 5	20M	QPSK	50	28	Right Tilted	0mm	Index 2	376000	1880	17.29	18.70	1.384	0.01	0.064	0.089
	FR1 n2_Ant 5	20M	QPSK	1	1	Left Cheek	0mm	Index 2	376000	1880	17.38	18.70	1.355	-0.16	0.503	0.682
	FR1 n2_Ant 5	20M	QPSK	1	1	Left Cheek	0mm	Index 2	372000	1860	17.25	18.70	1.396	-0.06	0.412	0.575
	FR1 n2_Ant 5	20M	QPSK	1	1	Left Cheek	0mm	Index 2	380000	1900	17.28	18.70	1.387	0.19	0.396	0.549
	FR1 n2_Ant 5	20M	QPSK	50	28	Left Cheek	0mm	Index 2	376000	1880	17.29	18.70	1.384	0.11	0.437	0.605
	FR1 n2_Ant 5	20M	QPSK	100	0	Left Cheek	0mm	Index 2	376000	1880	17.24	18.70	1.400	0.05	0.465	0.651
	FR1 n2_Ant 5	20M	QPSK	1	1	Left Tilted	0mm	Index 2	376000	1880	17.38	18.70	1.355	0.15	0.096	0.130
	FR1 n2_Ant 5	20M	QPSK	50	28	Left Tilted	0mm	Index 2	376000	1880	17.29	18.70	1.384	-0.16	0.078	0.108
	FR1 n2_Ant 5	20M	QPSK	1	1	Right Cheek	0mm	Index 3	376000	1880	17.38	18.00	1.153	0.16	0.279	0.322
	FR1 n2_Ant 5	20M	QPSK	50	28	Right Cheek	0mm	Index 3	376000	1880	17.29	18.00	1.178	0.03	0.268	0.316
	FR1 n2_Ant 5	20M	QPSK	1	1	Right Tilted	0mm	Index 3	376000	1880	17.38	18.00	1.153	-0.17	0.070	0.081
	FR1 n2_Ant 5	20M	QPSK	50	28	Right Tilted	0mm	Index 3	376000	1880	17.29	18.00	1.178	0.01	0.064	0.075
	FR1 n2_Ant 5	20M	QPSK	1	1	Left Cheek	0mm	Index 3	376000	1880	17.38	18.00	1.153	-0.16	0.503	0.580
	FR1 n2_Ant 5	20M	QPSK	1	1	Left Cheek	0mm	Index 3	372000	1860	17.25	18.00	1.189	-0.06	0.412	0.490
	FR1 n2_Ant 5	20M	QPSK	1	1	Left Cheek	0mm	Index 3	380000	1900	17.28	18.00	1.180	0.19	0.396	0.467
	FR1 n2_Ant 5	20M	QPSK	50	28	Left Cheek	0mm	Index 3	376000	1880	17.29	18.00	1.178	0.11	0.437	0.515
	FR1 n2_Ant 5	20M	QPSK	1	1	Left Tilted	0mm	Index 3	376000	1880	17.38	18.00	1.153	0.15	0.096	0.111
	FR1 n2_Ant 5	20M	QPSK	50	28	Left Tilted	0mm	Index 3	376000	1880	17.29	18.00	1.178	-0.16	0.078	0.092



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
19	FR1 n7_Ant 2	50M	QPSK	1	1	Right Cheek	0mm	Index 2/3	507000	2535	25.09	25.40	1.074	0.1	0.680	0.730
	FR1 n7_Ant 2	50M	QPSK	135	68	Right Cheek	0mm	Index 2/3	507000	2535	24.84	25.40	1.138	0.03	0.614	0.699
	FR1 n7_Ant 2	50M	QPSK	1	1	Right Tilted	0mm	Index 2/3	507000	2535	25.09	25.40	1.074	0	0.285	0.306
	FR1 n7_Ant 2	50M	QPSK	135	68	Right Tilted	0mm	Index 2/3	507000	2535	24.84	25.40	1.138	-0.05	0.273	0.311
	FR1 n7_Ant 2	50M	QPSK	1	1	Left Cheek	0mm	Index 2/3	507000	2535	25.09	25.40	1.074	-0.05	0.364	0.391
	FR1 n7_Ant 2	50M	QPSK	135	68	Left Cheek	0mm	Index 2/3	507000	2535	24.84	25.40	1.138	-0.04	0.342	0.389
	FR1 n7_Ant 2	50M	QPSK	1	1	Left Tilted	0mm	Index 2/3	507000	2535	25.09	25.40	1.074	-0.03	0.456	0.490
	FR1 n7_Ant 2	50M	QPSK	135	68	Left Tilted	0mm	Index 2/3	507000	2535	24.84	25.40	1.138	0.06	0.406	0.462
	FR1 n7_Ant 0	50M	QPSK	1	1	Right Cheek	0mm	Index 2/3	507000	2535	23.63	24.30	1.167	-0.09	0.112	0.131
	FR1 n7_Ant 0	50M	QPSK	135	68	Right Cheek	0mm	Index 2/3	507000	2535	23.49	24.30	1.205	-0.04	0.085	0.102
	FR1 n7_Ant 0	50M	QPSK	1	1	Right Tilted	0mm	Index 2/3	507000	2535	23.63	24.30	1.167	-0.12	0.064	0.075
	FR1 n7_Ant 0	50M	QPSK	135	68	Right Tilted	0mm	Index 2/3	507000	2535	23.49	24.30	1.205	-0.03	0.053	0.064
	FR1 n7_Ant 0	50M	QPSK	1	1	Left Cheek	0mm	Index 2/3	507000	2535	23.63	24.30	1.167	-0.1	0.268	0.313
	FR1 n7_Ant 0	50M	QPSK	135	68	Left Cheek	0mm	Index 2/3	507000	2535	23.49	24.30	1.205	0.05	0.241	0.290
	FR1 n7_Ant 0	50M	QPSK	1	1	Left Tilted	0mm	Index 2/3	507000	2535	23.63	24.30	1.167	-0.11	0.070	0.082
	FR1 n7_Ant 0	50M	QPSK	135	68	Left Tilted	0mm	Index 2/3	507000	2535	23.49	24.30	1.205	-0.02	0.052	0.063
	FR1 n12_Ant 0	15M	QPSK	1	1	Right Cheek	0mm	Index 2/3	141500	707.5	24.52	25.40	1.225	-0.04	0.082	0.100
	FR1 n12_Ant 0	15M	QPSK	36	22	Right Cheek	0mm	Index 2/3	141500	707.5	24.48	25.40	1.236	-0.06	0.072	0.089
	FR1 n12_Ant 0	15M	QPSK	1	1	Right Tilted	0mm	Index 2/3	141500	707.5	24.52	25.40	1.225	-0.16	0.043	0.053
	FR1 n12_Ant 0	15M	QPSK	36	22	Right Tilted	0mm	Index 2/3	141500	707.5	24.48	25.40	1.236	0.15	0.038	0.047
	FR1 n12_Ant 0	15M	QPSK	1	1	Left Cheek	0mm	Index 2/3	141500	707.5	24.52	25.40	1.225	-0.16	0.231	0.283
	FR1 n12_Ant 0	15M	QPSK	36	22	Left Cheek	0mm	Index 2/3	141500	707.5	24.48	25.40	1.236	0.18	0.099	0.122
	FR1 n12_Ant 0	15M	QPSK	1	1	Left Tilted	0mm	Index 2/3	141500	707.5	24.52	25.40	1.225	-0.06	0.049	0.060
	FR1 n12_Ant 0	15M	QPSK	36	22	Left Tilted	0mm	Index 2/3	141500	707.5	24.48	25.40	1.236	0.02	0.045	0.056
	FR1 n12_Ant 1	15M	QPSK	1	1	Right Cheek	0mm	Index 2	141500	707.5	23.55	25.20	1.462	-0.15	0.582	0.851
	FR1 n12_Ant 1	15M	QPSK	36	22	Right Cheek	0mm	Index 2	141500	707.5	23.52	25.20	1.472	0.09	0.545	0.802
	FR1 n12_Ant 1	15M	QPSK	75	0	Right Cheek	0mm	Index 2	141500	707.5	23.49	24.20	1.178	0.14	0.510	0.601
20	FR1 n12_Ant 1	15M	QPSK	1	1	Right Tilted	0mm	Index 2	141500	707.5	23.55	25.20	1.462	-0.12	0.655	0.958
	FR1 n12_Ant 1	15M	QPSK	36	22	Right Tilted	0mm	Index 2	141500	707.5	23.52	25.20	1.472	0.05	0.639	0.941
	FR1 n12_Ant 1	15M	QPSK	75	0	Right Tilted	0mm	Index 2	141500	707.5	23.49	24.20	1.178	0.09	0.629	0.741
	FR1 n12_Ant 1	15M	QPSK	1	1	Left Cheek	0mm	Index 2	141500	707.5	23.55	25.20	1.462	-0.15	0.372	0.544
	FR1 n12_Ant 1	15M	QPSK	36	22	Left Cheek	0mm	Index 2	141500	707.5	23.52	25.20	1.472	-0.07	0.358	0.527
	FR1 n12_Ant 1	15M	QPSK	1	1	Left Tilted	0mm	Index 2	141500	707.5	23.55	25.20	1.462	-0.15	0.331	0.484
	FR1 n12_Ant 1	15M	QPSK	36	22	Left Tilted	0mm	Index 2	141500	707.5	23.52	25.20	1.472	-0.02	0.327	0.481
	FR1 n12_Ant 1	15M	QPSK	1	1	Right Cheek	0mm	Index 3	141500	707.5	23.55	24.60	1.274	-0.15	0.582	0.741
	FR1 n12_Ant 1	15M	QPSK	36	22	Right Cheek	0mm	Index 3	141500	707.5	23.52	24.60	1.282	0.09	0.545	0.699
	FR1 n12_Ant 1	15M	QPSK	1	1	Right Tilted	0mm	Index 3	141500	707.5	23.55	24.60	1.274	-0.12	0.655	0.834
	FR1 n12_Ant 1	15M	QPSK	36	22	Right Tilted	0mm	Index 3	141500	707.5	23.52	24.60	1.282	0.05	0.639	0.819
	FR1 n12_Ant 1	15M	QPSK	75	0	Right Tilted	0mm	Index 3	141500	707.5	23.49	24.20	1.178	0.09	0.621	0.731
	FR1 n12_Ant 1	15M	QPSK	1	1	Left Cheek	0mm	Index 3	141500	707.5	23.55	24.60	1.274	-0.15	0.372	0.474
	FR1 n12_Ant 1	15M	QPSK	36	22	Left Cheek	0mm	Index 3	141500	707.5	23.52	24.60	1.282	-0.07	0.358	0.459
	FR1 n12_Ant 1	15M	QPSK	1	1	Left Tilted	0mm	Index 3	141500	707.5	23.55	24.60	1.274	-0.15	0.331	0.422
	FR1 n12_Ant 1	15M	QPSK	36	22	Left Tilted	0mm	Index 3	141500	707.5	23.52	24.60	1.282	-0.02	0.327	0.419



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
21	FR1 n25_Ant 2	40M	QPSK	1	1	Right Cheek	0mm	Index 2/3	376500	1882.5	24.45	25.40	1.245	0.17	0.671	0.835
	FR1 n25_Ant 2	40M	QPSK	108	54	Right Cheek	0mm	Index 2/3	376500	1882.5	24.43	25.40	1.250	-0.06	0.613	0.766
	FR1 n25_Ant 2	40M	QPSK	216	0	Right Cheek	0mm	Index 2/3	376500	1882.5	21.99	22.90	1.233	-0.06	0.322	0.397
	FR1 n25_Ant 2	40M	QPSK	1	1	Right Tilted	0mm	Index 2/3	376500	1882.5	24.45	25.40	1.245	-0.11	0.261	0.325
	FR1 n25_Ant 2	40M	QPSK	108	54	Right Tilted	0mm	Index 2/3	376500	1882.5	24.43	25.40	1.250	0.09	0.228	0.285
	FR1 n25_Ant 2	40M	QPSK	1	1	Left Cheek	0mm	Index 2/3	376500	1882.5	24.45	25.40	1.245	-0.17	0.286	0.356
	FR1 n25_Ant 2	40M	QPSK	108	54	Left Cheek	0mm	Index 2/3	376500	1882.5	24.43	25.40	1.250	-0.12	0.254	0.318
	FR1 n25_Ant 2	40M	QPSK	1	1	Left Tilted	0mm	Index 2/3	376500	1882.5	24.45	25.40	1.245	-0.02	0.198	0.246
	FR1 n25_Ant 2	40M	QPSK	108	54	Left Tilted	0mm	Index 2/3	376500	1882.5	24.43	25.40	1.250	0.06	0.154	0.193
	FR1 n25_Ant 0	40M	QPSK	1	1	Right Cheek	0mm	Index 2/3	376500	1882.5	23.66	25.20	1.426	0.01	0.012	0.017
	FR1 n25_Ant 0	40M	QPSK	108	54	Right Cheek	0mm	Index 2/3	376500	1882.5	23.56	25.20	1.459	0.01	0.008	0.012
	FR1 n25_Ant 0	40M	QPSK	1	1	Right Tilted	0mm	Index 2/3	376500	1882.5	23.66	25.20	1.426	0.01	0.009	0.013
	FR1 n25_Ant 0	40M	QPSK	108	54	Right Tilted	0mm	Index 2/3	376500	1882.5	23.56	25.20	1.459	0.01	0.006	0.009
	FR1 n25_Ant 0	40M	QPSK	1	1	Left Cheek	0mm	Index 2/3	376500	1882.5	23.66	25.20	1.426	0.04	0.076	0.108
	FR1 n25_Ant 0	40M	QPSK	108	54	Left Cheek	0mm	Index 2/3	376500	1882.5	23.56	25.20	1.459	-0.12	0.045	0.066
	FR1 n25_Ant 0	40M	QPSK	1	1	Left Tilted	0mm	Index 2/3	376500	1882.5	23.66	25.20	1.426	0.01	0.008	0.011
	FR1 n25_Ant 0	40M	QPSK	108	54	Left Tilted	0mm	Index 2/3	376500	1882.5	23.56	25.20	1.459	0.01	0.004	0.006
	FR1 n26_Ant 0	20M	QPSK	1	1	Right Cheek	0mm	Index 2/3	166300	831.5	24.49	25.40	1.233	-0.14	0.054	0.067
	FR1 n26_Ant 0	20M	QPSK	50	28	Right Cheek	0mm	Index 2/3	166300	831.5	24.48	25.40	1.236	-0.06	0.048	0.059
	FR1 n26_Ant 0	20M	QPSK	1	1	Right Tilted	0mm	Index 2/3	166300	831.5	24.49	25.40	1.233	-0.15	0.024	0.030
	FR1 n26_Ant 0	20M	QPSK	50	28	Right Tilted	0mm	Index 2/3	166300	831.5	24.48	25.40	1.236	0.09	0.022	0.027
	FR1 n26_Ant 0	20M	QPSK	1	1	Left Cheek	0mm	Index 2/3	166300	831.5	24.49	25.40	1.233	0.13	0.157	0.194
	FR1 n26_Ant 0	20M	QPSK	50	28	Left Cheek	0mm	Index 2/3	166300	831.5	24.48	25.40	1.236	0.01	0.051	0.063
	FR1 n26_Ant 0	20M	QPSK	1	1	Left Tilted	0mm	Index 2/3	166300	831.5	24.49	25.40	1.233	-0.09	0.026	0.032
	FR1 n26_Ant 0	20M	QPSK	50	28	Left Tilted	0mm	Index 2/3	166300	831.5	24.48	25.40	1.236	0.06	0.020	0.025
	FR1 n26_Ant 1	20M	QPSK	1	1	Right Cheek	0mm	Index 2	166300	831.5	21.60	22.60	1.259	-0.09	0.574	0.723
	FR1 n26_Ant 1	20M	QPSK	50	28	Right Cheek	0mm	Index 2	166300	831.5	21.57	22.60	1.268	0.12	0.560	0.710
22	FR1 n26_Ant 1	20M	QPSK	1	1	Right Tilted	0mm	Index 2	166300	831.5	21.60	22.60	1.259	0.17	0.613	0.772
	FR1 n26_Ant 1	20M	QPSK	50	28	Right Tilted	0mm	Index 2	166300	831.5	21.57	22.60	1.268	-0.03	0.588	0.745
	FR1 n26_Ant 1	20M	QPSK	1	1	Left Cheek	0mm	Index 2	166300	831.5	21.60	22.60	1.259	-0.14	0.444	0.559
	FR1 n26_Ant 1	20M	QPSK	50	28	Left Cheek	0mm	Index 2	166300	831.5	21.57	22.60	1.268	0.17	0.432	0.548
	FR1 n26_Ant 1	20M	QPSK	1	1	Left Tilted	0mm	Index 2	166300	831.5	21.60	22.60	1.259	-0.14	0.455	0.573
	FR1 n26_Ant 1	20M	QPSK	50	28	Left Tilted	0mm	Index 2	166300	831.5	21.57	22.60	1.268	0.18	0.421	0.534
	FR1 n26_Ant 1	20M	QPSK	1	1	Right Cheek	0mm	Index 3	166300	831.5	21.60	21.90	1.072	-0.09	0.574	0.615
	FR1 n26_Ant 1	20M	QPSK	50	28	Right Cheek	0mm	Index 3	166300	831.5	21.57	21.90	1.079	0.12	0.560	0.604
	FR1 n26_Ant 1	20M	QPSK	1	1	Right Tilted	0mm	Index 3	166300	831.5	21.60	21.90	1.072	0.17	0.613	0.657
	FR1 n26_Ant 1	20M	QPSK	50	28	Right Tilted	0mm	Index 3	166300	831.5	21.57	21.90	1.079	-0.03	0.588	0.634
	FR1 n26_Ant 1	20M	QPSK	1	1	Left Cheek	0mm	Index 3	166300	831.5	21.60	21.90	1.072	-0.14	0.444	0.476
	FR1 n26_Ant 1	20M	QPSK	50	28	Left Cheek	0mm	Index 3	166300	831.5	21.57	21.90	1.079	0.17	0.432	0.466
	FR1 n26_Ant 1	20M	QPSK	1	1	Left Tilted	0mm	Index 3	166300	831.5	21.60	21.90	1.072	-0.14	0.455	0.488
	FR1 n26_Ant 1	20M	QPSK	50	28	Left Tilted	0mm	Index 3	166300	831.5	21.57	21.90	1.079	0.18	0.421	0.454



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
23	FR1 n30_Ant 2	10M	QPSK	1	1	Right Cheek	0mm	Index 2/3	462000	2310	22.19	23.10	1.233	0.1	0.354	0.437
	FR1 n30_Ant 2	10M	QPSK	25	14	Right Cheek	0mm	Index 2/3	462000	2310	22.08	23.10	1.265	-0.02	0.293	0.371
	FR1 n30_Ant 2	10M	QPSK	1	1	Right Tilted	0mm	Index 2/3	462000	2310	22.19	23.10	1.233	-0.08	0.150	0.185
	FR1 n30_Ant 2	10M	QPSK	25	14	Right Tilted	0mm	Index 2/3	462000	2310	22.08	23.10	1.265	0.01	0.142	0.180
	FR1 n30_Ant 2	10M	QPSK	1	1	Left Cheek	0mm	Index 2/3	462000	2310	22.19	23.10	1.233	-0.07	0.207	0.255
	FR1 n30_Ant 2	10M	QPSK	25	14	Left Cheek	0mm	Index 2/3	462000	2310	22.08	23.10	1.265	0.05	0.201	0.254
	FR1 n30_Ant 2	10M	QPSK	1	1	Left Tilted	0mm	Index 2/3	462000	2310	22.19	23.10	1.233	-0.01	0.172	0.212
	FR1 n30_Ant 2	10M	QPSK	25	14	Left Tilted	0mm	Index 2/3	462000	2310	22.08	23.10	1.265	0.16	0.166	0.210
	FR1 n30_Ant 0	10M	QPSK	1	1	Right Cheek	0mm	Index 2/3	462000	2310	22.10	23.40	1.349	-0.06	0.071	0.096
	FR1 n30_Ant 0	10M	QPSK	25	14	Right Cheek	0mm	Index 2/3	462000	2310	22.00	23.40	1.380	0.05	0.058	0.080
	FR1 n30_Ant 0	10M	QPSK	1	1	Right Tilted	0mm	Index 2/3	462000	2310	22.10	23.40	1.349	-0.15	0.057	0.077
	FR1 n30_Ant 0	10M	QPSK	25	14	Right Tilted	0mm	Index 2/3	462000	2310	22.00	23.40	1.380	-0.08	0.054	0.075
	FR1 n30_Ant 0	10M	QPSK	1	1	Left Cheek	0mm	Index 2/3	462000	2310	22.10	23.40	1.349	-0.06	0.150	0.202
	FR1 n30_Ant 0	10M	QPSK	25	14	Left Cheek	0mm	Index 2/3	462000	2310	22.00	23.40	1.380	0.01	0.115	0.159
	FR1 n30_Ant 0	10M	QPSK	1	1	Left Tilted	0mm	Index 2/3	462000	2310	22.10	23.40	1.349	-0.15	0.071	0.096
	FR1 n30_Ant 0	10M	QPSK	25	14	Left Tilted	0mm	Index 2/3	462000	2310	22.00	23.40	1.380	-0.13	0.062	0.086
	FR1 n66_Ant 2	40M	QPSK	1	1	Right Cheek	0mm	Index 2/3	349000	1745	24.79	25.40	1.151	0	0.430	0.495
	FR1 n66_Ant 2	40M	QPSK	108	54	Right Cheek	0mm	Index 2/3	349000	1745	24.63	25.40	1.194	-0.04	0.341	0.407
	FR1 n66_Ant 2	40M	QPSK	1	1	Right Tilted	0mm	Index 2/3	349000	1745	24.79	25.40	1.151	-0.16	0.245	0.282
	FR1 n66_Ant 2	40M	QPSK	108	54	Right Tilted	0mm	Index 2/3	349000	1745	24.63	25.40	1.194	0.18	0.220	0.263
	FR1 n66_Ant 2	40M	QPSK	1	1	Left Cheek	0mm	Index 2/3	349000	1745	24.79	25.40	1.151	-0.19	0.183	0.211
	FR1 n66_Ant 2	40M	QPSK	108	54	Left Cheek	0mm	Index 2/3	349000	1745	24.63	25.40	1.194	0.08	0.158	0.189
	FR1 n66_Ant 2	40M	QPSK	1	1	Left Tilted	0mm	Index 2/3	349000	1745	24.79	25.40	1.151	-0.14	0.239	0.275
	FR1 n66_Ant 2	40M	QPSK	108	54	Left Tilted	0mm	Index 2/3	349000	1745	24.63	25.40	1.194	0.17	0.215	0.257
	FR1 n66_Ant 0	40M	QPSK	1	1	Right Cheek	0mm	Index 2/3	349000	1745	23.66	25.20	1.426	0.13	0.110	0.157
	FR1 n66_Ant 0	40M	QPSK	108	54	Right Cheek	0mm	Index 2/3	349000	1745	23.65	25.20	1.429	-0.1	0.062	0.089
	FR1 n66_Ant 0	40M	QPSK	1	1	Right Tilted	0mm	Index 2/3	349000	1745	23.66	25.20	1.426	-0.19	0.053	0.076
	FR1 n66_Ant 0	40M	QPSK	108	54	Right Tilted	0mm	Index 2/3	349000	1745	23.65	25.20	1.429	0.06	0.042	0.060
	FR1 n66_Ant 0	40M	QPSK	1	1	Left Cheek	0mm	Index 2/3	349000	1745	23.66	25.20	1.426	-0.04	0.072	0.103
	FR1 n66_Ant 0	40M	QPSK	108	54	Left Cheek	0mm	Index 2/3	349000	1745	23.65	25.20	1.429	-0.15	0.066	0.094
	FR1 n66_Ant 0	40M	QPSK	1	1	Left Tilted	0mm	Index 2/3	349000	1745	23.66	25.20	1.426	-0.14	0.052	0.074
	FR1 n66_Ant 0	40M	QPSK	108	54	Left Tilted	0mm	Index 2/3	349000	1745	23.65	25.20	1.429	0.12	0.048	0.069
	FR1 n66_Ant 1	40M	QPSK	1	1	Right Cheek	0mm	Index 2	349000	1745	16.98	18.40	1.387	-0.11	0.685	0.950
	FR1 n66_Ant 1	40M	QPSK	108	54	Right Cheek	0mm	Index 2	349000	1745	16.90	18.40	1.413	0.02	0.658	0.929
	FR1 n66_Ant 1	40M	QPSK	216	0	Right Cheek	0mm	Index 2	349000	1745	16.82	18.40	1.439	0.01	0.631	0.908
24	FR1 n66_Ant 1	40M	QPSK	1	1	Right Tilted	0mm	Index 2	349000	1745	16.98	18.40	1.387	-0.12	0.710	0.985
	FR1 n66_Ant 1	40M	QPSK	108	54	Right Tilted	0mm	Index 2	349000	1745	16.90	18.40	1.413	0.19	0.691	0.976
	FR1 n66_Ant 1	40M	QPSK	216	0	Right Tilted	0mm	Index 2	349000	1745	16.82	18.40	1.439	0.15	0.682	0.981
	FR1 n66_Ant 1	40M	QPSK	1	1	Left Cheek	0mm	Index 2	349000	1745	16.98	18.40	1.387	-0.13	0.269	0.373
	FR1 n66_Ant 1	40M	QPSK	108	54	Left Cheek	0mm	Index 2	349000	1745	16.90	18.40	1.413	0.01	0.252	0.356
	FR1 n66_Ant 1	40M	QPSK	1	1	Left Tilted	0mm	Index 2	349000	1745	16.98	18.40	1.387	-0.11	0.330	0.458
	FR1 n66_Ant 1	40M	QPSK	108	54	Left Tilted	0mm	Index 2	349000	1745	16.90	18.40	1.413	0.08	0.313	0.442
	FR1 n66_Ant 1	40M	QPSK	1	1	Right Cheek	0mm	Index 3	349000	1745	16.98	17.70	1.180	-0.11	0.685	0.809
	FR1 n66_Ant 1	40M	QPSK	108	54	Right Cheek	0mm	Index 3	349000	1745	16.90	17.70	1.202	0.02	0.658	0.791
	FR1 n66_Ant 1	40M	QPSK	216	0	Right Cheek	0mm	Index 3	349000	1745	16.82	17.70	1.225	0.01	0.631	0.773
	FR1 n66_Ant 1	40M	QPSK	1	1	Right Tilted	0mm	Index 3	349000	1745	16.98	17.70	1.180	-0.12	0.710	0.838
	FR1 n66_Ant 1	40M	QPSK	108	54	Right Tilted	0mm	Index 3	349000	1745	16.90	17.70	1.202	0.19	0.691	0.831
	FR1 n66_Ant 1	40M	QPSK	216	0	Right Tilted	0mm	Index 3	349000	1745	16.82	17.70	1.225	0.15	0.682	0.835
	FR1 n66_Ant 1	40M	QPSK	1	1	Left Cheek	0mm	Index 3	349000	1745	16.98	17.70	1.180	-0.13	0.269	0.318
	FR1 n66_Ant 1	40M	QPSK	108	54	Left Cheek	0mm	Index 3	349000	1745	16.90	17.70	1.202	0.01	0.252	0.303
	FR1 n66_Ant 1	40M	QPSK	1	1	Left Tilted	0mm	Index 3	349000	1745	16.98	17.70	1.180	-0.11	0.330	0.390
	FR1 n66_Ant 1	40M	QPSK	108	54	Left Tilted	0mm	Index 3	349000	1745	16.90	17.70	1.202	0.08	0.313	0.376



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	FR1 n66_Ant 5	40M	QPSK	1	1	Right Cheek	0mm	Index 2	349000	1745	18.38	19.70	1.355	-0.16	0.284	0.385
	FR1 n66_Ant 5	40M	QPSK	108	54	Right Cheek	0mm	Index 2	349000	1745	18.30	19.70	1.380	-0.08	0.268	0.370
	FR1 n66_Ant 5	40M	QPSK	1	1	Right Tilted	0mm	Index 2	349000	1745	18.38	19.70	1.355	-0.05	0.065	0.088
	FR1 n66_Ant 5	40M	QPSK	108	54	Right Tilted	0mm	Index 2	349000	1745	18.30	19.70	1.380	0.01	0.057	0.079
	FR1 n66_Ant 5	40M	QPSK	1	1	Left Cheek	0mm	Index 2	349000	1745	18.38	19.70	1.355	-0.07	0.506	0.686
	FR1 n66_Ant 5	40M	QPSK	108	54	Left Cheek	0mm	Index 2	349000	1745	18.30	19.70	1.380	0.09	0.484	0.668
	FR1 n66_Ant 5	40M	QPSK	1	1	Left Tilted	0mm	Index 2	349000	1745	18.38	19.70	1.355	-0.09	0.092	0.125
	FR1 n66_Ant 5	40M	QPSK	108	54	Left Tilted	0mm	Index 2	349000	1745	18.30	19.70	1.380	-0.16	0.081	0.112
	FR1 n66_Ant 5	40M	QPSK	1	1	Right Cheek	0mm	Index 3	349000	1745	18.38	19.00	1.153	-0.16	0.284	0.328
	FR1 n66_Ant 5	40M	QPSK	108	54	Right Cheek	0mm	Index 3	349000	1745	18.30	19.00	1.175	-0.08	0.268	0.315
	FR1 n66_Ant 5	40M	QPSK	1	1	Right Tilted	0mm	Index 3	349000	1745	18.38	19.00	1.153	-0.05	0.065	0.075
	FR1 n66_Ant 5	40M	QPSK	108	54	Right Tilted	0mm	Index 3	349000	1745	18.30	19.00	1.175	0.01	0.057	0.067
	FR1 n66_Ant 5	40M	QPSK	1	1	Left Cheek	0mm	Index 3	349000	1745	18.38	19.00	1.153	-0.07	0.506	0.584
	FR1 n66_Ant 5	40M	QPSK	108	54	Left Cheek	0mm	Index 3	349000	1745	18.30	19.00	1.175	0.09	0.484	0.569
	FR1 n66_Ant 5	40M	QPSK	1	1	Left Tilted	0mm	Index 3	349000	1745	18.38	19.00	1.153	-0.09	0.092	0.106
	FR1 n66_Ant 5	40M	QPSK	108	54	Left Tilted	0mm	Index 3	349000	1745	18.30	19.00	1.175	-0.16	0.081	0.095
25	FR1 n70_Ant 2	15M	QPSK	1	1	Right Cheek	0mm	Index 2/3	340500	1702.5	24.72	25.40	1.169	-0.04	0.280	0.327
	FR1 n70_Ant 2	15M	QPSK	36	22	Right Cheek	0mm	Index 2/3	340500	1702.5	24.55	25.40	1.216	-0.02	0.257	0.313
	FR1 n70_Ant 2	15M	QPSK	1	1	Right Tilted	0mm	Index 2/3	340500	1702.5	24.72	25.40	1.169	-0.09	0.177	0.207
	FR1 n70_Ant 2	15M	QPSK	36	22	Right Tilted	0mm	Index 2/3	340500	1702.5	24.55	25.40	1.216	0.06	0.163	0.198
	FR1 n70_Ant 2	15M	QPSK	1	1	Left Cheek	0mm	Index 2/3	340500	1702.5	24.72	25.40	1.169	-0.04	0.135	0.158
	FR1 n70_Ant 2	15M	QPSK	36	22	Left Cheek	0mm	Index 2/3	340500	1702.5	24.55	25.40	1.216	-0.14	0.121	0.147
	FR1 n70_Ant 2	15M	QPSK	1	1	Left Tilted	0mm	Index 2/3	340500	1702.5	24.72	25.40	1.169	-0.07	0.144	0.168
	FR1 n70_Ant 2	15M	QPSK	36	22	Left Tilted	0mm	Index 2/3	340500	1702.5	24.55	25.40	1.216	0.03	0.137	0.167
	FR1 n70_Ant 0	15M	QPSK	1	1	Right Cheek	0mm	Index 2/3	340500	1702.5	24.59	25.20	1.151	0.14	0.034	0.039
	FR1 n70_Ant 0	15M	QPSK	36	22	Right Cheek	0mm	Index 2/3	340500	1702.5	24.56	25.20	1.159	-0.14	0.030	0.035
	FR1 n70_Ant 0	15M	QPSK	1	1	Right Tilted	0mm	Index 2/3	340500	1702.5	24.59	25.20	1.151	-0.19	0.027	0.031
	FR1 n70_Ant 0	15M	QPSK	36	22	Right Tilted	0mm	Index 2/3	340500	1702.5	24.56	25.20	1.159	0.12	0.024	0.028
	FR1 n70_Ant 0	15M	QPSK	1	1	Left Cheek	0mm	Index 2/3	340500	1702.5	24.59	25.20	1.151	0.02	0.031	0.036
	FR1 n70_Ant 0	15M	QPSK	36	22	Left Cheek	0mm	Index 2/3	340500	1702.5	24.56	25.20	1.159	0.06	0.027	0.031
	FR1 n70_Ant 0	15M	QPSK	1	1	Left Tilted	0mm	Index 2/3	340500	1702.5	24.59	25.20	1.151	-0.18	0.025	0.029
	FR1 n70_Ant 0	15M	QPSK	36	22	Left Tilted	0mm	Index 2/3	340500	1702.5	24.56	25.20	1.159	-0.14	0.023	0.027



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n71_Ant 0	20M	QPSK	1	1	Right Cheek	0mm	Index 2/3	136100	680.5	24.58	25.40	1.208	0.09	0.176	0.213
	FR1 n71_Ant 0	20M	QPSK	50	28	Right Cheek	0mm	Index 2/3	136100	680.5	24.42	25.40	1.253	0.05	0.163	0.204
	FR1 n71_Ant 0	20M	QPSK	1	1	Right Tilted	0mm	Index 2/3	136100	680.5	24.58	25.40	1.208	-0.03	0.082	0.099
	FR1 n71_Ant 0	20M	QPSK	50	28	Right Tilted	0mm	Index 2/3	136100	680.5	24.42	25.40	1.253	0.04	0.074	0.093
	FR1 n71_Ant 0	20M	QPSK	1	1	Left Cheek	0mm	Index 2/3	136100	680.5	24.58	25.40	1.208	-0.12	0.224	0.271
	FR1 n71_Ant 0	20M	QPSK	50	28	Left Cheek	0mm	Index 2/3	136100	680.5	24.42	25.40	1.253	-0.11	0.184	0.231
	FR1 n71_Ant 0	20M	QPSK	1	1	Left Tilted	0mm	Index 2/3	136100	680.5	24.58	25.40	1.208	-0.17	0.084	0.101
	FR1 n71_Ant 0	20M	QPSK	50	28	Left Tilted	0mm	Index 2/3	136100	680.5	24.42	25.40	1.253	0.02	0.073	0.091
26	FR1 n71_Ant 1	20M	QPSK	1	1	Right Cheek	0mm	Index 2	136100	680.5	24.50	25.20	1.175	-0.11	0.829	0.974
	FR1 n71_Ant 1	20M	QPSK	50	28	Right Cheek	0mm	Index 2	136100	680.5	24.33	25.20	1.222	0.11	0.792	0.968
	FR1 n71_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	Index 2	136100	680.5	23.77	24.20	1.104	0.05	0.689	0.761
	FR1 n71_Ant 1	20M	QPSK	1	1	Right Tilted	0mm	Index 2	136100	680.5	24.50	25.20	1.175	-0.12	0.811	0.953
	FR1 n71_Ant 1	20M	QPSK	50	28	Right Tilted	0mm	Index 2	136100	680.5	24.33	25.20	1.222	0.14	0.773	0.944
	FR1 n71_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	Index 2	136100	680.5	23.77	24.20	1.104	0.07	0.699	0.772
	FR1 n71_Ant 1	20M	QPSK	1	1	Left Cheek	0mm	Index 2	136100	680.5	24.50	25.20	1.175	-0.16	0.421	0.495
	FR1 n71_Ant 1	20M	QPSK	50	28	Left Cheek	0mm	Index 2	136100	680.5	24.33	25.20	1.222	-0.12	0.411	0.502
	FR1 n71_Ant 1	20M	QPSK	1	1	Left Tilted	0mm	Index 2	136100	680.5	24.50	25.20	1.175	-0.11	0.451	0.530
	FR1 n71_Ant 1	20M	QPSK	50	28	Left Tilted	0mm	Index 2	136100	680.5	24.33	25.20	1.222	0.05	0.446	0.545
	FR1 n71_Ant 1	20M	QPSK	1	1	Right Cheek	0mm	Index 3	136100	680.5	24.50	24.50	1.000	-0.11	0.829	0.829
	FR1 n71_Ant 1	20M	QPSK	50	28	Right Cheek	0mm	Index 3	136100	680.5	24.33	24.50	1.040	0.11	0.792	0.824
	FR1 n71_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	Index 3	136100	680.5	23.77	23.80	1.007	0.05	0.689	0.694
	FR1 n71_Ant 1	20M	QPSK	1	1	Right Tilted	0mm	Index 3	136100	680.5	24.50	24.50	1.000	-0.12	0.811	0.811
	FR1 n71_Ant 1	20M	QPSK	50	28	Right Tilted	0mm	Index 3	136100	680.5	24.33	24.50	1.040	0.14	0.773	0.804
	FR1 n71_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	Index 3	136100	680.5	23.77	23.80	1.007	0.07	0.699	0.704
	FR1 n71_Ant 1	20M	QPSK	1	1	Left Cheek	0mm	Index 3	136100	680.5	24.50	24.50	1.000	-0.16	0.421	0.421
	FR1 n71_Ant 1	20M	QPSK	50	28	Left Cheek	0mm	Index 3	136100	680.5	24.33	24.50	1.040	-0.12	0.411	0.427
	FR1 n71_Ant 1	20M	QPSK	1	1	Left Tilted	0mm	Index 3	136100	680.5	24.50	24.50	1.000	-0.11	0.451	0.451
	FR1 n71_Ant 1	20M	QPSK	50	28	Left Tilted	0mm	Index 3	136100	680.5	24.33	24.50	1.040	0.05	0.446	0.464



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
27	FR1 n38_Ant 2	20M	QPSK	1	1	Right Cheek	0mm	Index 2/3	519000	2595	24.38	25.40	1.265	0.07	0.506	0.640
	FR1 n38_Ant 2	20M	QPSK	1	1	Right Cheek	0mm	Index 2/3	516000	2580	24.37	25.40	1.268	-0.07	0.603	0.764
	FR1 n38_Ant 2	20M	QPSK	1	1	Right Cheek	0mm	Index 2/3	522000	2610	24.35	25.40	1.274	-0.15	0.511	0.651
	FR1 n38_Ant 2	20M	QPSK	25	13	Right Cheek	0mm	Index 2/3	519000	2595	24.36	24.40	1.009	0.06	0.483	0.487
	FR1 n38_Ant 2	20M	QPSK	1	1	Right Tilted	0mm	Index 2/3	519000	2595	24.38	25.40	1.265	-0.11	0.253	0.320
	FR1 n38_Ant 2	20M	QPSK	25	13	Right Tilted	0mm	Index 2/3	519000	2595	24.36	24.40	1.009	0.01	0.233	0.235
	FR1 n38_Ant 2	20M	QPSK	1	1	Left Cheek	0mm	Index 2/3	519000	2595	24.38	25.40	1.265	-0.16	0.337	0.426
	FR1 n38_Ant 2	20M	QPSK	25	13	Left Cheek	0mm	Index 2/3	519000	2595	24.36	24.40	1.009	0.05	0.314	0.317
	FR1 n38_Ant 2	20M	QPSK	1	1	Left Tilted	0mm	Index 2/3	519000	2595	24.38	25.40	1.265	-0.12	0.361	0.457
	FR1 n38_Ant 2	20M	QPSK	25	13	Left Tilted	0mm	Index 2/3	519000	2595	24.36	24.40	1.009	0	0.352	0.355
	FR1 n38_Ant 0	20M	QPSK	1	1	Right Cheek	0mm	Index 2/3	519000	2595	23.32	25.00	1.472	0.17	0.053	0.078
	FR1 n38_Ant 0	20M	QPSK	25	13	Right Cheek	0mm	Index 2/3	519000	2595	23.12	25.00	1.542	0.11	0.048	0.074
	FR1 n38_Ant 0	20M	QPSK	1	1	Right Tilted	0mm	Index 2/3	519000	2595	23.32	25.00	1.472	-0.15	0.042	0.062
	FR1 n38_Ant 0	20M	QPSK	25	13	Right Tilted	0mm	Index 2/3	519000	2595	23.12	25.00	1.542	-0.13	0.040	0.062
	FR1 n38_Ant 0	20M	QPSK	1	1	Left Cheek	0mm	Index 2/3	519000	2595	23.32	25.00	1.472	-0.11	0.213	0.314
	FR1 n38_Ant 0	20M	QPSK	1	1	Left Cheek	0mm	Index 2/3	516000	2580	23.25	25.00	1.496	0.06	0.085	0.127
	FR1 n38_Ant 0	20M	QPSK	1	1	Left Cheek	0mm	Index 2/3	522000	2610	23.15	25.00	1.531	0.13	0.082	0.126
	FR1 n38_Ant 0	20M	QPSK	25	13	Left Cheek	0mm	Index 2/3	519000	2595	23.12	25.00	1.542	-0.12	0.085	0.131
	FR1 n38_Ant 0	20M	QPSK	1	1	Left Tilted	0mm	Index 2/3	519000	2595	23.32	25.00	1.472	-0.1	0.030	0.044
	FR1 n38_Ant 0	20M	QPSK	25	13	Left Tilted	0mm	Index 2/3	519000	2595	23.12	25.00	1.542	0.14	0.029	0.045
	FR1 n41_Ant 2	100M	QPSK	1	1	Right Cheek	0mm	Index 2/3	518598	2592.99	23.85	23.90	1.012	0.05	0.552	0.558
	FR1 n41_Ant 2	100M	QPSK	135	69	Right Cheek	0mm	Index 2/3	518598	2592.99	23.37	23.90	1.130	-0.09	0.441	0.498
	FR1 n41_Ant 2	100M	QPSK	1	1	Right Tilted	0mm	Index 2/3	518598	2592.99	23.85	23.90	1.012	-0.18	0.210	0.212
	FR1 n41_Ant 2	100M	QPSK	135	69	Right Tilted	0mm	Index 2/3	518598	2592.99	23.37	23.90	1.130	0.17	0.174	0.197
	FR1 n41_Ant 2	100M	QPSK	1	1	Left Cheek	0mm	Index 2/3	518598	2592.99	23.85	23.90	1.012	-0.14	0.275	0.278
	FR1 n41_Ant 2	100M	QPSK	135	69	Left Cheek	0mm	Index 2/3	518598	2592.99	23.37	23.90	1.130	0.18	0.232	0.262
	FR1 n41_Ant 2	100M	QPSK	1	1	Left Tilted	0mm	Index 2/3	518598	2592.99	23.85	23.90	1.012	-0.15	0.288	0.291
	FR1 n41_Ant 2	100M	QPSK	135	69	Left Tilted	0mm	Index 2/3	518598	2592.99	23.37	23.90	1.130	-0.12	0.256	0.289
	FR1 n41_HPUE_Ant 2	100M	QPSK	1	1	Right Cheek	0mm	Index 2/3	518598	2592.99	26.40	26.90	1.122	-0.06	0.488	0.548
	FR1 n41_Ant 0	100M	QPSK	1	1	Right Cheek	0mm	Index 2/3	518598	2592.99	22.61	23.50	1.227	-0.07	0.059	0.072
	FR1 n41_Ant 0	100M	QPSK	135	69	Right Cheek	0mm	Index 2/3	518598	2592.99	22.22	23.50	1.343	-0.05	0.045	0.060
	FR1 n41_Ant 0	100M	QPSK	1	1	Right Tilted	0mm	Index 2/3	518598	2592.99	22.61	23.50	1.227	0.13	0.072	0.088
	FR1 n41_Ant 0	100M	QPSK	135	69	Right Tilted	0mm	Index 2/3	518598	2592.99	22.22	23.50	1.343	-0.01	0.060	0.081
	FR1 n41_Ant 0	100M	QPSK	1	1	Left Cheek	0mm	Index 2/3	518598	2592.99	22.61	23.50	1.227	-0.14	0.241	0.296
	FR1 n41_Ant 0	100M	QPSK	135	69	Left Cheek	0mm	Index 2/3	518598	2592.99	22.22	23.50	1.343	0.06	0.125	0.168
	FR1 n41_Ant 0	100M	QPSK	1	1	Left Tilted	0mm	Index 2/3	518598	2592.99	22.61	23.50	1.227	0	0.044	0.054
	FR1 n41_Ant 0	100M	QPSK	135	69	Left Tilted	0mm	Index 2/3	518598	2592.99	22.22	23.50	1.343	0.05	0.034	0.046
	FR1 n41_HPUE_Ant 0	100M	QPSK	1	1	Left Cheek	0mm	Index 2/3	518598	2592.99	25.21	26.50	1.346	0.01	0.205	0.276
	FR1 n41_Ant 1	100M	QPSK	1	1	Right Cheek	0mm	Index 2	518598	2592.99	16.58	17.70	1.294	0.02	0.498	0.645
	FR1 n41_Ant 1	100M	QPSK	135	69	Right Cheek	0mm	Index 2	518598	2592.99	16.38	17.70	1.355	0.16	0.455	0.617
28	FR1 n41_Ant 1	100M	QPSK	1	1	Right Tilted	0mm	Index 2	518598	2592.99	16.58	17.70	1.294	-0.02	0.693	0.897
	FR1 n41_Ant 1	100M	QPSK	135	69	Right Tilted	0mm	Index 2	518598	2592.99	16.38	17.70	1.355	0.1	0.582	0.789
	FR1 n41_Ant 1	100M	QPSK	270	0	Right Tilted	0mm	Index 2	518598	2592.99	16.14	17.70	1.432	0.04	0.613	0.878
	FR1 n41_Ant 1	100M	QPSK	1	1	Left Cheek	0mm	Index 2	518598	2592.99	16.58	17.70	1.294	-0.06	0.229	0.296
	FR1 n41_Ant 1	100M	QPSK	135	69	Left Cheek	0mm	Index 2	518598	2592.99	16.38	17.70	1.355	0.08	0.203	0.275
	FR1 n41_Ant 1	100M	QPSK	1	1	Left Tilted	0mm	Index 2	518598	2592.99	16.58	17.70	1.294	-0.18	0.322	0.417
	FR1 n41_Ant 1	100M	QPSK	135	69	Left Tilted	0mm	Index 2	518598	2592.99	16.38	17.70	1.355	0.13	0.301	0.408
	FR1 n41_HPUE_Ant 1	100M	QPSK	1	1	Right Tilted	0mm	Index 2	518598	2592.99	19.56	20.70	1.300	-0.03	0.635	0.826
	FR1 n41_Ant 1	100M	QPSK	1	1	Right Cheek	0mm	Index 3	518598	2592.99	16.58	17.00	1.102	0.02	0.498	0.549
	FR1 n41_Ant 1	100M	QPSK	135	69	Right Cheek	0mm	Index 3	518598	2592.99	16.38	17.00	1.153	0.16	0.455	0.525
	FR1 n41_Ant 1	100M	QPSK	1	1	Right Tilted	0mm	Index 3	518598	2592.99	16.58	17.00	1.102	-0.02	0.693	0.763
	FR1 n41_Ant 1	100M	QPSK	135	69	Right Tilted	0mm	Index 3	518598	2592.99	16.38	17.00	1.153	0.1	0.582	0.671



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FR1 n41_Ant 1	100M	QPSK	1	1	Left Cheek	0mm	Index 3	518598	2592.99	16.58	17.00	1.102	-0.06	0.229	0.252
FR1 n41_Ant 1	100M	QPSK	135	69	Left Cheek	0mm	Index 3	518598	2592.99	16.38	17.00	1.153	0.08	0.203	0.234
FR1 n41_Ant 1	100M	QPSK	1	1	Left Tilted	0mm	Index 3	518598	2592.99	16.58	17.00	1.102	-0.18	0.322	0.355
FR1 n41_Ant 1	100M	QPSK	135	69	Left Tilted	0mm	Index 3	518598	2592.99	16.38	17.00	1.153	0.13	0.301	0.347
FR1 n41_HPUE_Ant 1	100M	QPSK	1	1	Right Tilted	0mm	Index 3	518598	2592.99	19.56	20.00	1.107	-0.03	0.633	0.700
FR1 n41_Ant 5	100M	QPSK	1	1	Right Cheek	0mm	Index 2	518598	2592.99	19.96	21.10	1.300	0.01	0.294	0.382
FR1 n41_Ant 5	100M	QPSK	135	69	Right Cheek	0mm	Index 2	518598	2592.99	19.90	21.10	1.318	-0.13	0.280	0.369
FR1 n41_Ant 5	100M	QPSK	1	1	Right Tilted	0mm	Index 2	518598	2592.99	19.96	21.10	1.300	-0.1	0.051	0.066
FR1 n41_Ant 5	100M	QPSK	135	69	Right Tilted	0mm	Index 2	518598	2592.99	19.90	21.10	1.318	0.1	0.039	0.051
FR1 n41_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 2	518598	2592.99	19.96	21.10	1.300	0.08	0.526	0.684
FR1 n41_Ant 5	100M	QPSK	135	69	Left Cheek	0mm	Index 2	518598	2592.99	19.90	21.10	1.318	0.19	0.498	0.656
FR1 n41_Ant 5	100M	QPSK	1	1	Left Tilted	0mm	Index 2	518598	2592.99	19.96	21.10	1.300	0.14	0.111	0.144
FR1 n41_Ant 5	100M	QPSK	135	69	Left Tilted	0mm	Index 2	518598	2592.99	19.90	21.10	1.318	0.04	0.104	0.137
FR1 n41_HPUE_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 2	518598	2592.99	23.05	24.10	1.274	-0.03	0.504	0.642
FR1 n41_Ant 5	100M	QPSK	1	1	Right Cheek	0mm	Index 3	518598	2592.99	19.96	20.40	1.107	0.01	0.294	0.325
FR1 n41_Ant 5	100M	QPSK	135	69	Right Cheek	0mm	Index 3	518598	2592.99	19.90	20.40	1.122	-0.13	0.280	0.314
FR1 n41_Ant 5	100M	QPSK	1	1	Right Tilted	0mm	Index 3	518598	2592.99	19.96	20.40	1.107	-0.1	0.051	0.056
FR1 n41_Ant 5	100M	QPSK	135	69	Right Tilted	0mm	Index 3	518598	2592.99	19.90	20.40	1.122	0.1	0.039	0.044
FR1 n41_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 3	518598	2592.99	19.96	20.40	1.107	0.08	0.526	0.582
FR1 n41_Ant 5	100M	QPSK	135	69	Left Cheek	0mm	Index 3	518598	2592.99	19.90	20.40	1.122	0.19	0.498	0.559
FR1 n41_Ant 5	100M	QPSK	1	1	Left Tilted	0mm	Index 3	518598	2592.99	19.96	20.40	1.107	0.14	0.111	0.123
FR1 n41_Ant 5	100M	QPSK	135	69	Left Tilted	0mm	Index 3	518598	2592.99	19.90	20.40	1.122	0.04	0.104	0.117
FR1 n41_HPUE_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 3	518598	2592.99	23.05	23.40	1.084	-0.03	0.504	0.546



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n48_Ant 6	40M	BPSK	1	1	Right Cheek	0mm	Index 2/3	641666	3624.99	22.36	22.40	1.009	0.08	0.101	0.102
	FR1 n48_Ant 6	40M	BPSK	50	25	Right Cheek	0mm	Index 2/3	641666	3624.99	22.34	22.40	1.014	0.06	0.098	0.099
	FR1 n48_Ant 6	40M	BPSK	1	1	Right Tilted	0mm	Index 2/3	641666	3624.99	22.36	22.40	1.009	0.16	0.102	0.103
	FR1 n48_Ant 6	40M	BPSK	50	25	Right Tilted	0mm	Index 2/3	641666	3624.99	22.34	22.40	1.014	0.1	0.095	0.096
	FR1 n48_Ant 6	40M	BPSK	1	1	Left Cheek	0mm	Index 2/3	641666	3624.99	22.36	22.40	1.009	-0.08	0.194	0.196
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Cheek	0mm	Index 2/3	641666	3624.99	22.34	22.40	1.014	0.04	0.189	0.192
	FR1 n48_Ant 6	40M	BPSK	1	1	Left Tilted	0mm	Index 2/3	641666	3624.99	22.36	22.40	1.009	0.09	0.058	0.059
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Tilted	0mm	Index 2/3	641666	3624.99	22.34	22.40	1.014	0.02	0.050	0.051
	FR1 n48_Ant 7	40M	BPSK	1	0	Right Cheek	0mm	Index 2/3	641666	3624.99	19.37	20.00	1.156	0.02	0.121	0.140
	FR1 n48_Ant 7	40M	BPSK	50	25	Right Cheek	0mm	Index 2/3	641666	3624.99	23.11	24.30	1.315	-0.13	0.291	0.383
	FR1 n48_Ant 7	40M	BPSK	1	0	Right Tilted	0mm	Index 2/3	641666	3624.99	19.37	20.00	1.156	-0.08	0.018	0.021
	FR1 n48_Ant 7	40M	BPSK	50	25	Right Tilted	0mm	Index 2/3	641666	3624.99	23.11	24.30	1.315	0.1	0.050	0.066
	FR1 n48_Ant 7	40M	BPSK	1	0	Left Cheek	0mm	Index 2/3	641666	3624.99	19.37	20.00	1.156	0.16	0.045	0.052
	FR1 n48_Ant 7	40M	BPSK	50	25	Left Cheek	0mm	Index 2/3	641666	3624.99	23.11	24.30	1.315	0.09	0.115	0.151
	FR1 n48_Ant 7	40M	BPSK	1	0	Left Tilted	0mm	Index 2/3	641666	3624.99	19.37	20.00	1.156	0.08	0.040	0.046
	FR1 n48_Ant 7	40M	BPSK	50	25	Left Tilted	0mm	Index 2/3	641666	3624.99	23.11	24.30	1.315	-0.12	0.101	0.133
	FR1 n48_Ant 7	20M	BPSK	1	49	Right Cheek	0mm	Index 2/3	641666	3624.99	23.20	24.30	1.288	-0.08	0.277	0.357
	FR1 n48_Ant 7	20M	BPSK	25	12	Right Cheek	0mm	Index 2/3	641666	3624.99	23.20	24.30	1.288	-0.03	0.273	0.352
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	Index 2	641666	3624.99	17.84	19.00	1.306	-0.01	0.585	0.764
	FR1 n48_Ant 1	40M	BPSK	1	104	Right Cheek	0mm	Index 2	638000	3570	12.52	13.00	1.117	-0.12	0.170	0.190
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	Index 2	645332	3679.98	12.83	13.00	1.040	0.02	0.181	0.188
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	Index 2	641666	3624.99	17.67	19.00	1.358	0.16	0.553	0.751
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	Index 2	638000	3570	12.46	13.00	1.132	0.09	0.164	0.186
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	Index 2	645332	3679.98	12.81	13.00	1.045	0.08	0.177	0.185
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	Index 2	641666	3624.99	17.84	19.00	1.306	-0.04	0.665	0.869
	FR1 n48_Ant 1	40M	BPSK	1	104	Right Tilted	0mm	Index 2	638000	3570	12.52	13.00	1.117	0.08	0.188	0.210
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	Index 2	645332	3679.98	12.83	13.00	1.040	0.06	0.203	0.211
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	Index 2	641666	3624.99	17.67	19.00	1.358	0.16	0.631	0.857
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	Index 2	638000	3570	12.46	13.00	1.132	0.04	0.189	0.214
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	Index 2	645332	3679.98	12.81	13.00	1.045	-0.08	0.208	0.217
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	Index 2	641666	3624.99	17.84	19.00	1.306	0.01	0.363	0.474
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Cheek	0mm	Index 2	641666	3624.99	17.67	19.00	1.358	0.09	0.325	0.441
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	Index 2	641666	3624.99	17.84	19.00	1.306	0	0.430	0.562
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Tilted	0mm	Index 2	641666	3624.99	17.67	19.00	1.358	-0.1	0.407	0.553
29	FR1 n48_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	Index 2	641666	3624.985	17.68	19.00	1.355	-0.03	0.651	0.882
	FR1 n48_Ant 1	20M	BPSK	1	50	Right Tilted	0mm	Index 2	637334	3560.01	17.73	19.00	1.340	-0.04	0.627	0.840
	FR1 n48_Ant 1	20M	BPSK	1	50	Right Tilted	0mm	Index 2	646000	3690	17.76	19.00	1.330	0.02	0.625	0.832
	FR1 n48_Ant 1	20M	BPSK	25	12	Right Tilted	0mm	Index 2	641666	3624.99	17.78	19.00	1.324	0.18	0.631	0.836
	FR1 n48_Ant 1	20M	BPSK	25	12	Right Tilted	0mm	Index 2	637334	3560.01	17.78	19.00	1.324	-0.14	0.614	0.813
	FR1 n48_Ant 1	20M	BPSK	25	12	Right Tilted	0mm	Index 2	646000	3690	17.71	19.00	1.346	0.07	0.623	0.838
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	Index 3	641666	3624.99	17.84	18.30	1.112	-0.01	0.585	0.650
	FR1 n48_Ant 1	40M	BPSK	1	104	Right Cheek	0mm	Index 3	638000	3570	12.52	13.00	1.117	-0.12	0.170	0.190
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	Index 3	645332	3679.98	12.83	13.00	1.040	0.02	0.181	0.188
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	Index 3	641666	3624.99	17.67	18.30	1.156	0.16	0.553	0.639
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	Index 3	638000	3570	12.46	13.00	1.132	0.09	0.164	0.186
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	Index 3	645332	3679.98	12.81	13.00	1.045	0.08	0.177	0.185
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	Index 3	641666	3624.99	17.84	18.30	1.112	-0.04	0.665	0.739
	FR1 n48_Ant 1	40M	BPSK	1	104	Right Tilted	0mm	Index 3	638000	3570	12.52	13.00	1.117	0.08	0.188	0.210
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	Index 3	645332	3679.98	12.83	13.00	1.040	0.06	0.203	0.211
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	Index 3	641666	3624.99	17.67	18.30	1.156	0.16	0.631	0.730
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	Index 3	638000	3570	12.46	13.00	1.132	0.04	0.189	0.214
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	Index 3	645332	3679.98	12.81	13.00	1.045	-0.08	0.208	0.217
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	Index 3	641666	3624.99	17.84	18.30	1.112	0.01	0.363	0.404



FCC SAR TEST REPORT

Report No. : FA2D0206-01F

FR1 n48_Ant 1	40M	BPSK	50	25	Left Cheek	0mm	Index 3	641666	3624.99	17.67	18.30	1.156	0.09	0.325	0.376
FR1 n48_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	Index 3	641666	3624.99	17.84	18.30	1.112	0	0.430	0.478
FR1 n48_Ant 1	40M	BPSK	50	25	Left Tilted	0mm	Index 3	641666	3624.99	17.67	18.30	1.156	-0.1	0.407	0.471
FR1 n48_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	Index 3	641666	3624.985	17.68	18.30	1.153	-0.03	0.651	0.751
FR1 n48_Ant 1	20M	BPSK	1	50	Right Tilted	0mm	Index 3	637334	3560.01	17.73	18.30	1.140	-0.04	0.627	0.715
FR1 n48_Ant 1	20M	BPSK	1	50	Right Tilted	0mm	Index 3	646000	3690	17.76	18.30	1.132	0.02	0.625	0.708
FR1 n48_Ant 1	20M	BPSK	25	12	Right Tilted	0mm	Index 3	641666	3624.99	17.78	18.30	1.127	0.18	0.631	0.711
FR1 n48_Ant 1	20M	BPSK	25	12	Right Tilted	0mm	Index 3	637334	3560.01	17.78	18.30	1.127	-0.14	0.614	0.692
FR1 n48_Ant 1	20M	BPSK	25	12	Right Tilted	0mm	Index 3	646000	3690	17.71	18.30	1.146	0.07	0.623	0.714
FR1 n48_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	Index 2	641666	3624.99	20.89	21.80	1.233	0.03	0.308	0.380
FR1 n48_Ant 5	40M	BPSK	50	25	Right Cheek	0mm	Index 2	641666	3624.99	20.73	21.80	1.279	-0.08	0.284	0.363
FR1 n48_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	Index 2	641666	3624.99	20.89	21.80	1.233	-0.07	0.143	0.176
FR1 n48_Ant 5	40M	BPSK	50	25	Right Tilted	0mm	Index 2	641666	3624.99	20.73	21.80	1.279	0.05	0.119	0.152
FR1 n48_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Index 2	641666	3624.99	20.89	21.80	1.233	-0.05	0.573	0.707
FR1 n48_Ant 5	40M	BPSK	1	0	Left Cheek	0mm	Index 2	638000	3570	11.94	12.50	1.138	0.09	0.070	0.080
FR1 n48_Ant 5	40M	BPSK	1	0	Left Cheek	0mm	Index 2	645332	3679.98	11.62	12.50	1.225	0.08	0.059	0.072
FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	Index 2	641666	3624.99	20.73	21.80	1.279	-0.04	0.522	0.668
FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	Index 2	638000	3570	12.01	12.50	1.119	0.01	0.071	0.079
FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	Index 2	645332	3679.98	11.64	12.50	1.219	0.09	0.070	0.085
FR1 n48_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	Index 2	641666	3624.99	20.89	21.80	1.233	0.01	0.236	0.291
FR1 n48_Ant 5	40M	BPSK	50	25	Left Tilted	0mm	Index 2	641666	3624.99	20.73	21.80	1.279	0.06	0.221	0.283
FR1 n48_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Index 2	641666	3624.99	20.83	21.80	1.250	-0.19	0.538	0.673
FR1 n48_Ant 5	20M	BPSK	1	49	Left Cheek	0mm	Index 2	637334	3560.01	20.55	21.80	1.334	-0.14	0.512	0.683
FR1 n48_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Index 2	646000	3690	20.65	21.80	1.303	-0.13	0.524	0.683
FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	Index 2	641666	3624.99	20.51	21.80	1.346	0.07	0.502	0.676
FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	Index 2	637334	3560.01	20.54	21.80	1.337	0.12	0.488	0.652
FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	Index 2	646000	3690	20.31	21.80	1.409	0.09	0.416	0.586
FR1 n48_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	Index 3	641666	3624.99	20.89	21.10	1.050	0.03	0.308	0.323
FR1 n48_Ant 5	40M	BPSK	50	25	Right Cheek	0mm	Index 3	641666	3624.99	20.73	21.10	1.089	-0.08	0.284	0.309
FR1 n48_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	Index 3	641666	3624.99	20.89	21.10	1.050	-0.07	0.143	0.150
FR1 n48_Ant 5	40M	BPSK	50	25	Right Tilted	0mm	Index 3	641666	3624.99	20.73	21.10	1.089	0.05	0.119	0.130
FR1 n48_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Index 3	641666	3624.99	20.89	21.10	1.050	-0.05	0.573	0.601
FR1 n48_Ant 5	40M	BPSK	1	0	Left Cheek	0mm	Index 3	638000	3570	11.94	12.50	1.138	0.09	0.070	0.080
FR1 n48_Ant 5	40M	BPSK	1	0	Left Cheek	0mm	Index 3	645332	3679.98	11.62	12.50	1.225	0.08	0.059	0.072
FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	Index 3	641666	3624.99	20.73	21.10	1.089	-0.04	0.522	0.568
FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	Index 3	638000	3570	12.01	12.50	1.119	0.01	0.071	0.079
FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	Index 3	645332	3679.98	11.64	12.50	1.219	0.09	0.070	0.085
FR1 n48_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	Index 3	641666	3624.99	20.89	21.10	1.050	0.01	0.236	0.248
FR1 n48_Ant 5	40M	BPSK	50	25	Left Tilted	0mm	Index 3	641666	3624.99	20.73	21.10	1.089	0.06	0.221	0.241
FR1 n48_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Index 3	641666	3624.99	20.83	21.10	1.064	-0.19	0.538	0.573
FR1 n48_Ant 5	20M	BPSK	1	49	Left Cheek	0mm	Index 3	637334	3560.01	20.55	21.10	1.135	-0.14	0.512	0.581
FR1 n48_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Index 3	646000	3690	20.65	21.10	1.109	-0.13	0.524	0.581
FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	Index 3	641666	3624.99	20.51	21.10	1.146	0.07	0.502	0.575
FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	Index 3	637334	3560.01	20.54	21.10	1.138	0.12	0.488	0.555
FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	Index 3	646000	3690	20.31	21.10	1.199	0.09	0.416	0.499



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77_Ant 6	100M	QPSK	1	1	Right Cheek	0mm	Index 2/3	656000	3840	23.99	24.60	1.151	0.1	0.237	0.273
	FR1 n77_Ant 6	100M	QPSK	135	69	Right Cheek	0mm	Index 2/3	656000	3840	23.84	24.60	1.191	0.07	0.201	0.239
	FR1 n77_Ant 6	100M	QPSK	1	1	Right Tilted	0mm	Index 2/3	656000	3840	23.99	24.60	1.151	0	0.130	0.150
	FR1 n77_Ant 6	100M	QPSK	135	69	Right Tilted	0mm	Index 2/3	656000	3840	23.84	24.60	1.191	-0.06	0.113	0.135
	FR1 n77_Ant 6	100M	QPSK	1	1	Left Cheek	0mm	Index 2/3	656000	3840	23.99	24.60	1.151	-0.02	0.257	0.296
	FR1 n77_Ant 6	100M	QPSK	135	69	Left Cheek	0mm	Index 2/3	656000	3840	23.84	24.60	1.191	-0.07	0.241	0.287
	FR1 n77_Ant 6	100M	QPSK	1	1	Left Tilted	0mm	Index 2/3	656000	3840	23.99	24.60	1.151	-0.18	0.093	0.107
	FR1 n77_Ant 6	100M	QPSK	135	69	Left Tilted	0mm	Index 2/3	656000	3840	23.84	24.60	1.191	-0.02	0.084	0.100
	FR1 n77_HPUE_Ant 6	100M	QPSK	1	1	Left Cheek	0mm	Index 2/3	656000	3840	26.64	27.60	1.247	0.04	0.227	0.283
	FR1 n77_Ant 6	100M	QPSK	1	1	Right Cheek	0mm	Index 2/3	633332	3499.98	24.05	24.60	1.135	0.17	0.131	0.149
	FR1 n77_Ant 6	100M	QPSK	135	69	Right Cheek	0mm	Index 2/3	633332	3499.98	23.63	24.60	1.250	-0.17	0.109	0.136
	FR1 n77_Ant 6	100M	QPSK	1	1	Right Tilted	0mm	Index 2/3	633332	3499.98	24.05	24.60	1.135	-0.02	0.085	0.096
	FR1 n77_Ant 6	100M	QPSK	135	69	Right Tilted	0mm	Index 2/3	633332	3499.98	23.63	24.60	1.250	0.05	0.071	0.089
	FR1 n77_Ant 6	100M	QPSK	1	1	Left Cheek	0mm	Index 2/3	633332	3499.98	24.05	24.60	1.135	0.13	0.158	0.179
	FR1 n77_Ant 6	100M	QPSK	135	69	Left Cheek	0mm	Index 2/3	633332	3499.98	23.63	24.60	1.250	0.08	0.142	0.178
	FR1 n77_Ant 6	100M	QPSK	1	1	Left Tilted	0mm	Index 2/3	633332	3499.98	24.05	24.60	1.135	-0.17	0.065	0.074
	FR1 n77_Ant 6	100M	QPSK	135	69	Left Tilted	0mm	Index 2/3	633332	3499.98	23.63	24.60	1.250	0.09	0.053	0.066
	FR1 n77_HPUE_Ant 6	100M	QPSK	1	1	Left Cheek	0mm	Index 2/3	633332	3499.98	26.66	27.60	1.242	-0.17	0.138	0.171
	FR1 n77_Ant 7	100M	QPSK	1	1	Right Cheek	0mm	Index 2/3	656000	3840	22.68	24.00	1.355	0	0.181	0.245
	FR1 n77_Ant 7	100M	QPSK	135	69	Right Cheek	0mm	Index 2/3	656000	3840	22.32	24.00	1.472	0.1	0.152	0.224
	FR1 n77_Ant 7	100M	QPSK	1	1	Right Tilted	0mm	Index 2/3	656000	3840	22.68	24.00	1.355	0.12	0.062	0.084
	FR1 n77_Ant 7	100M	QPSK	135	69	Right Tilted	0mm	Index 2/3	656000	3840	22.32	24.00	1.472	0	0.055	0.081
	FR1 n77_Ant 7	100M	QPSK	1	1	Left Cheek	0mm	Index 2/3	656000	3840	22.68	24.00	1.355	0.18	0.088	0.119
	FR1 n77_Ant 7	100M	QPSK	135	69	Left Cheek	0mm	Index 2/3	656000	3840	22.32	24.00	1.472	0.19	0.064	0.094
	FR1 n77_Ant 7	100M	QPSK	1	1	Left Tilted	0mm	Index 2/3	656000	3840	22.68	24.00	1.355	-0.18	0.070	0.095
	FR1 n77_Ant 7	100M	QPSK	135	69	Left Tilted	0mm	Index 2/3	656000	3840	22.32	24.00	1.472	0.01	0.057	0.084
	FR1 n77_HPUE_Ant 7	100M	QPSK	1	1	Right Cheek	0mm	Index 2/3	656000	3840	25.30	26.40	1.288	-0.1	0.175	0.225
	FR1 n77_Ant 7	100M	QPSK	1	1	Right Cheek	0mm	Index 2/3	633332	3499.98	23.05	24.00	1.245	-0.04	0.200	0.249
	FR1 n77_Ant 7	100M	QPSK	135	69	Right Cheek	0mm	Index 2/3	633332	3499.98	22.58	24.00	1.387	-0.05	0.171	0.237
	FR1 n77_Ant 7	100M	QPSK	1	1	Right Tilted	0mm	Index 2/3	633332	3499.98	23.05	24.00	1.245	0.03	0.066	0.082
	FR1 n77_Ant 7	100M	QPSK	135	69	Right Tilted	0mm	Index 2/3	633332	3499.98	22.58	24.00	1.387	-0.11	0.052	0.072
	FR1 n77_Ant 7	100M	QPSK	1	1	Left Cheek	0mm	Index 2/3	633332	3499.98	23.05	24.00	1.245	-0.08	0.066	0.082
	FR1 n77_Ant 7	100M	QPSK	135	69	Left Cheek	0mm	Index 2/3	633332	3499.98	22.58	24.00	1.387	-0.05	0.051	0.071
	FR1 n77_Ant 7	100M	QPSK	1	1	Left Tilted	0mm	Index 2/3	633332	3499.98	23.05	24.00	1.245	0.09	0.066	0.082
	FR1 n77_Ant 7	100M	QPSK	135	69	Left Tilted	0mm	Index 2/3	633332	3499.98	22.58	24.00	1.387	-0.18	0.053	0.073
	FR1 n77_HPUE_Ant 7	100M	QPSK	1	1	Right Cheek	0mm	Index 2/3	633332	3499.98	25.72	26.40	1.169	-0.18	0.203	0.237
30	FR1 n77_Ant 1	100M	QPSK	1	1	Right Cheek	0mm	Index 2	656000	3840	16.60	17.60	1.259	0	0.748	0.942
	FR1 n77_Ant 1	100M	QPSK	135	69	Right Cheek	0mm	Index 2	656000	3840	16.42	17.60	1.312	0	0.692	0.908
	FR1 n77_Ant 1	100M	QPSK	270	0	Right Cheek	0mm	Index 2	656000	3840	16.24	17.60	1.368	0	0.667	0.912
	FR1 n77_Ant 1	100M	QPSK	1	1	Right Tilted	0mm	Index 2	656000	3840	16.60	17.60	1.259	0.07	0.691	0.870
	FR1 n77_Ant 1	100M	QPSK	135	69	Right Tilted	0mm	Index 2	656000	3840	16.42	17.60	1.312	0.14	0.647	0.849
	FR1 n77_Ant 1	100M	QPSK	270	0	Right Tilted	0mm	Index 2	656000	3840	16.24	17.60	1.368	0	0.608	0.832
	FR1 n77_Ant 1	100M	QPSK	1	1	Left Cheek	0mm	Index 2	656000	3840	16.60	17.60	1.259	0	0.312	0.393
	FR1 n77_Ant 1	100M	QPSK	135	69	Left Cheek	0mm	Index 2	656000	3840	16.42	17.60	1.312	-0.08	0.276	0.362
	FR1 n77_Ant 1	100M	QPSK	1	1	Left Tilted	0mm	Index 2	656000	3840	16.60	17.60	1.259	-0.01	0.373	0.470
	FR1 n77_Ant 1	100M	QPSK	135	69	Left Tilted	0mm	Index 2	656000	3840	16.42	17.60	1.312	-0.11	0.321	0.421
	FR1 n77_HPUE_Ant 1	100M	QPSK	1	1	Right Cheek	0mm	Index 2	656000	3840	19.55	20.60	1.274	0.18	0.667	0.849
	FR1 n77_Ant 1	100M	QPSK	1	1	Right Cheek	0mm	Index 3	656000	3840	16.60	16.90	1.072	0	0.748	0.801
	FR1 n77_Ant 1	100M	QPSK	135	69	Right Cheek	0mm	Index 3	656000	3840	16.42	16.90	1.117	0	0.692	0.773
	FR1 n77_Ant 1	100M	QPSK	270	0	Right Cheek	0mm	Index 3	656000	3840	16.24	16.90	1.164	0	0.658	0.766
	FR1 n77_Ant 1	100M	QPSK	1	1	Right Tilted	0mm	Index 3	656000	3840	16.60	16.90	1.072	0.07	0.691	0.740
	FR1 n77_Ant 1	100M	QPSK	135	69	Right Tilted	0mm	Index 3	656000	3840	16.42	16.90	1.117	0.14	0.647	0.723
	FR1 n77_Ant 1	100M	QPSK	1	1	Left Cheek	0mm	Index 3	656000	3840	16.60	16.90	1.072	0	0.312	0.334
	FR1 n77_Ant 1	100M	QPSK	135	69	Left Cheek	0mm	Index 3	656000	3840	16.42	16.90	1.117	-0.08	0.276	0.308
	FR1 n77_Ant 1	100M	QPSK	1	1	Left Tilted	0mm	Index 3	656000	3840	16.60	16.90	1.072	-0.01	0.373	0.400



FCC SAR TEST REPORT

Report No. : FA2D0206-01F

FR1 n77_Ant 1	100M	QPSK	135	69	Left Tilted	0mm	Index 3	656000	3840	16.42	16.90	1.117	-0.11	0.321	0.359
FR1 n77_HPUE_Ant 1	100M	QPSK	1	1	Right Cheek	0mm	Index 3	656000	3840	19.55	19.90	1.084	0.18	0.667	0.723
FR1 n77_Ant 1	100M	QPSK	1	1	Right Cheek	0mm	Index 2	633332	3499.98	16.51	17.60	1.285	0	0.582	0.748
FR1 n77_Ant 1	100M	QPSK	135	69	Right Cheek	0mm	Index 2	633332	3499.98	16.35	17.60	1.334	-0.14	0.527	0.703
FR1 n77_Ant 1	100M	QPSK	1	1	Right Tilted	0mm	Index 2	633332	3499.98	16.51	17.60	1.285	-0.09	0.557	0.716
FR1 n77_Ant 1	100M	QPSK	135	69	Right Tilted	0mm	Index 2	633332	3499.98	16.35	17.60	1.334	-0.1	0.501	0.668
FR1 n77_Ant 1	100M	QPSK	1	1	Left Cheek	0mm	Index 2	633332	3499.98	16.51	17.60	1.285	-0.01	0.269	0.346
FR1 n77_Ant 1	100M	QPSK	135	69	Left Cheek	0mm	Index 2	633332	3499.98	16.35	17.60	1.334	-0.06	0.254	0.339
FR1 n77_Ant 1	100M	QPSK	1	1	Left Tilted	0mm	Index 2	633332	3499.98	16.51	17.60	1.285	-0.06	0.380	0.488
FR1 n77_Ant 1	100M	QPSK	135	69	Left Tilted	0mm	Index 2	633332	3499.98	16.35	17.60	1.334	-0.04	0.353	0.471
FR1 n77_HPUE_Ant 1	100M	QPSK	1	1	Right Cheek	0mm	Index 2	633332	3499.98	19.51	20.60	1.285	-0.06	0.562	0.722
FR1 n77_Ant 1	100M	QPSK	1	1	Right Cheek	0mm	Index 3	633332	3499.98	16.51	16.90	1.094	0	0.582	0.637
FR1 n77_Ant 1	100M	QPSK	135	69	Right Cheek	0mm	Index 3	633332	3499.98	16.35	16.90	1.135	-0.14	0.527	0.598
FR1 n77_Ant 1	100M	QPSK	1	1	Right Tilted	0mm	Index 3	633332	3499.98	16.51	16.90	1.094	-0.09	0.557	0.609
FR1 n77_Ant 1	100M	QPSK	135	69	Right Tilted	0mm	Index 3	633332	3499.98	16.35	16.90	1.135	-0.1	0.501	0.569
FR1 n77_Ant 1	100M	QPSK	1	1	Left Cheek	0mm	Index 3	633332	3499.98	16.51	16.90	1.094	-0.01	0.269	0.294
FR1 n77_Ant 1	100M	QPSK	135	69	Left Cheek	0mm	Index 3	633332	3499.98	16.35	16.90	1.135	-0.06	0.254	0.288
FR1 n77_Ant 1	100M	QPSK	1	1	Left Tilted	0mm	Index 3	633332	3499.98	16.51	16.90	1.094	-0.06	0.380	0.416
FR1 n77_Ant 1	100M	QPSK	135	69	Left Tilted	0mm	Index 3	633332	3499.98	16.35	16.90	1.135	-0.04	0.353	0.401
FR1 n77_HPUE_Ant 1	100M	QPSK	1	1	Right Cheek	0mm	Index 3	633332	3499.98	19.51	19.90	1.094	-0.06	0.562	0.615
FR1 n77_Ant 5	100M	QPSK	1	1	Right Cheek	0mm	Index 2	656000	3840	19.98	20.90	1.236	0.16	0.310	0.383
FR1 n77_Ant 5	100M	QPSK	135	69	Right Cheek	0mm	Index 2	656000	3840	19.87	20.90	1.268	-0.03	0.254	0.322
FR1 n77_Ant 5	100M	QPSK	1	1	Right Tilted	0mm	Index 2	656000	3840	19.98	20.90	1.236	0.17	0.141	0.174
FR1 n77_Ant 5	100M	QPSK	135	69	Right Tilted	0mm	Index 2	656000	3840	19.87	20.90	1.268	-0.14	0.097	0.123
FR1 n77_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 2	656000	3840	19.98	20.90	1.236	0.14	0.557	0.688
FR1 n77_Ant 5	100M	QPSK	135	69	Left Cheek	0mm	Index 2	656000	3840	19.87	20.90	1.268	-0.09	0.484	0.614
FR1 n77_Ant 5	100M	QPSK	1	1	Left Tilted	0mm	Index 2	656000	3840	19.98	20.90	1.236	0.04	0.330	0.408
FR1 n77_Ant 5	100M	QPSK	135	69	Left Tilted	0mm	Index 2	656000	3840	19.87	20.90	1.268	-0.04	0.267	0.338
FR1 n77_HPUE_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 2	656000	3840	23.00	23.90	1.230	0.18	0.514	0.632
FR1 n77_Ant 5	100M	QPSK	1	1	Right Cheek	0mm	Index 3	656000	3840	19.98	20.20	1.052	0.16	0.310	0.326
FR1 n77_Ant 5	100M	QPSK	135	69	Right Cheek	0mm	Index 3	656000	3840	19.87	20.20	1.079	-0.03	0.254	0.274
FR1 n77_Ant 5	100M	QPSK	1	1	Right Tilted	0mm	Index 3	656000	3840	19.98	20.20	1.052	0.17	0.141	0.148
FR1 n77_Ant 5	100M	QPSK	135	69	Right Tilted	0mm	Index 3	656000	3840	19.87	20.20	1.079	-0.14	0.097	0.105
FR1 n77_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 3	656000	3840	19.98	20.20	1.052	0.14	0.557	0.586
FR1 n77_Ant 5	100M	QPSK	135	69	Left Cheek	0mm	Index 3	656000	3840	19.87	20.20	1.079	-0.09	0.484	0.522
FR1 n77_Ant 5	100M	QPSK	1	1	Left Tilted	0mm	Index 3	656000	3840	19.98	20.20	1.052	0.04	0.330	0.347
FR1 n77_Ant 5	100M	QPSK	135	69	Left Tilted	0mm	Index 3	656000	3840	19.87	20.20	1.079	-0.04	0.267	0.288
FR1 n77_HPUE_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 3	656000	3840	23.00	23.20	1.047	0.18	0.514	0.538
FR1 n77_Ant 5	100M	QPSK	1	1	Right Cheek	0mm	Index 2	633332	3499.98	20.16	20.90	1.186	-0.14	0.121	0.143
FR1 n77_Ant 5	100M	QPSK	135	69	Right Cheek	0mm	Index 2	633332	3499.98	19.73	20.90	1.309	-0.05	0.088	0.115
FR1 n77_Ant 5	100M	QPSK	1	1	Right Tilted	0mm	Index 2	633332	3499.98	20.16	20.90	1.186	-0.01	0.034	0.040
FR1 n77_Ant 5	100M	QPSK	135	69	Right Tilted	0mm	Index 2	633332	3499.98	19.73	20.90	1.309	-0.18	0.030	0.039
FR1 n77_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 2	633332	3499.98	20.16	20.90	1.186	0.03	0.172	0.204
FR1 n77_Ant 5	100M	QPSK	135	69	Left Cheek	0mm	Index 2	633332	3499.98	19.73	20.90	1.309	0.18	0.144	0.189
FR1 n77_Ant 5	100M	QPSK	1	1	Left Tilted	0mm	Index 2	633332	3499.98	20.16	20.90	1.186	0.18	0.034	0.040
FR1 n77_Ant 5	100M	QPSK	135	69	Left Tilted	0mm	Index 2	633332	3499.98	19.73	20.90	1.309	0.14	0.029	0.038
FR1 n77_HPUE_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 2	633332	3499.98	23.14	23.90	1.191	-0.01	0.148	0.176
FR1 n77_Ant 5	100M	QPSK	1	1	Right Cheek	0mm	Index 3	633332	3499.98	20.16	20.20	1.009	-0.14	0.121	0.122
FR1 n77_Ant 5	100M	QPSK	135	69	Right Cheek	0mm	Index 3	633332	3499.98	19.73	20.20	1.114	-0.05	0.088	0.098
FR1 n77_Ant 5	100M	QPSK	1	1	Right Tilted	0mm	Index 3	633332	3499.98	20.16	20.20	1.009	-0.01	0.034	0.034
FR1 n77_Ant 5	100M	QPSK	135	69	Right Tilted	0mm	Index 3	633332	3499.98	19.73	20.20	1.114	-0.18	0.030	0.033
FR1 n77_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 3	633332	3499.98	20.16	20.20	1.009	0.03	0.172	0.174
FR1 n77_Ant 5	100M	QPSK	135	69	Left Cheek	0mm	Index 3	633332	3499.98	19.73	20.20	1.114	0.18	0.144	0.160
FR1 n77_Ant 5	100M	QPSK	1	1	Left Tilted	0mm	Index 3	633332	3499.98	20.16	20.20	1.009	0.18	0.034	0.034
FR1 n77_Ant 5	100M	QPSK	135	69	Left Tilted	0mm	Index 3	633332	3499.98	19.73	20.20	1.114	0.14	0.029	0.032
FR1 n77_HPUE_Ant 5	100M	QPSK	1	1	Left Cheek	0mm	Index 3	633332	3499.98	23.14	23.20	1.014	-0.01	0.148	0.150



<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	Index 1	1	2412	15.90	16.00	1.023	98.90	1.011	0	0.297	0.307
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	Index 1	1	2412	15.90	16.00	1.023	98.90	1.011	-0.01	0.370	0.383
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	Index 1	1	2412	15.90	16.00	1.023	98.90	1.011	-0.02	0.771	0.798
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	Index 1	1	2412	15.90	16.00	1.023	98.90	1.011	0.01	0.917	0.949
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	Index 1	6	2437	15.80	16.00	1.047	98.90	1.011	0	0.933	0.988
31	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	Index 1	11	2462	15.40	16.00	1.148	98.90	1.011	-0.01	0.963	1.118
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	Index 2	1	2412	14.00	15.00	1.259	98.90	1.011	-0.08	0.192	0.244
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	Index 2	1	2412	14.00	15.00	1.259	98.90	1.011	-0.01	0.122	0.155
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	Index 2	1	2412	14.00	15.00	1.259	98.90	1.011	0.1	0.550	0.700
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	Index 2	1	2412	14.00	15.00	1.259	98.90	1.011	-0.04	0.552	0.703
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	Index 2	6	2437	13.70	15.00	1.349	98.90	1.011	0.02	0.564	0.769
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	Index 2	11	2462	14.00	15.00	1.259	98.90	1.011	-0.13	0.547	0.696
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	Index 3/4	1	2412	11.90	12.00	1.023	98.90	1.011	-0.13	0.095	0.098
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	Index 3/4	1	2412	11.90	12.00	1.023	98.90	1.011	-0.11	0.097	0.100
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	Index 3/4	1	2412	11.90	12.00	1.023	98.90	1.011	-0.11	0.258	0.267
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	Index 3/4	1	2412	11.90	12.00	1.023	98.90	1.011	-0.16	0.267	0.276
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	Index 3/4	6	2437	11.80	12.00	1.047	98.90	1.011	-0.03	0.284	0.301
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	Index 3/4	11	2462	11.70	12.00	1.072	98.90	1.011	-0.07	0.282	0.305
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Index 1	1	2412	20.00	20.00	1.000	98.90	1.011	0	0.569	0.575
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Index 1	6	2437	19.90	20.00	1.023	98.90	1.011	-0.02	0.609	0.630
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Index 1	11	2462	19.80	20.00	1.047	98.90	1.011	-0.02	0.930	0.985
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	Index 1	1	2412	20.00	20.00	1.000	98.90	1.011	0.09	0.136	0.137
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Index 1	1	2412	20.00	20.00	1.000	98.90	1.011	-0.01	0.497	0.502
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	Index 1	1	2412	20.00	20.00	1.000	98.90	1.011	0.01	0.070	0.071
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Index 2	1	2412	17.90	19.00	1.288	98.90	1.011	-0.01	0.274	0.357
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	Index 2	1	2412	17.90	19.00	1.288	98.90	1.011	0.16	0.082	0.107
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Index 2	1	2412	17.90	19.00	1.288	98.90	1.011	0.09	0.314	0.409
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Index 2	6	2437	17.60	19.00	1.380	98.90	1.011	0.08	0.322	0.449
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Index 2	11	2462	17.80	19.00	1.318	98.90	1.011	-0.02	0.476	0.634
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	Index 2	1	2412	17.90	19.00	1.288	98.90	1.011	0.02	0.039	0.051
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Index 3	1	2412	17.90	18.00	1.023	98.90	1.011	-0.01	0.274	0.283
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	Index 3	1	2412	17.90	18.00	1.023	98.90	1.011	0.16	0.082	0.085
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Index 3	1	2412	17.90	18.00	1.023	98.90	1.011	0.09	0.314	0.325
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Index 3	6	2437	17.60	18.00	1.096	98.90	1.011	0.08	0.322	0.357
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Index 3	11	2462	17.80	18.00	1.047	98.90	1.011	-0.02	0.476	0.504
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	Index 3	1	2412	17.90	18.00	1.023	98.90	1.011	0.02	0.039	0.040
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Index 4	1	2412	13.90	15.00	1.288	98.90	1.011	0.01	0.090	0.117
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	Index 4	1	2412	13.90	15.00	1.288	98.90	1.011	0.06	0.025	0.033
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Index 4	1	2412	13.90	15.00	1.288	98.90	1.011	0.13	0.107	0.139
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Index 4	6	2437	13.80	15.00	1.318	98.90	1.011	0.16	0.113	0.151
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Index 4	11	2462	13.80	15.00	1.318	98.90	1.011	-0.19	0.177	0.236
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	Index 4	1	2412	13.90	15.00	1.288	98.90	1.011	-0.03	0.012	0.016



FCC SAR TEST REPORT

Report No. : FA2D0206-01F

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3(4)	Index 1	1	2412	15.70	16.00	1.072	93.46	1.070	0.04	0.276	0.316
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3(3)	Index 1	1	2412	15.50	16.00	1.122	93.46	1.070	0.12	0.176	0.211
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+3(4)	Index 1	1	2412	15.70	16.00	1.072	93.46	1.070	-0.03	0.348	0.399
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+3(3)	Index 1	1	2412	15.50	16.00	1.122	93.46	1.070	0	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	Index 1	1	2412	15.70	16.00	1.072	93.46	1.070	0	0.733	0.840
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	Index 1	1	2412	15.50	16.00	1.122	93.46	1.070	0	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	Index 1	6	2437	15.90	16.00	1.023	93.46	1.070	0.02	0.727	0.796
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	Index 1	6	2437	15.20	16.00	1.202	93.46	1.070	0	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	Index 1	11	2462	15.60	16.00	1.096	93.46	1.070	0.04	0.764	0.896
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	Index 1	11	2462	15.00	16.00	1.259	93.46	1.070	0	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 1	1	2412	15.70	16.00	1.072	93.46	1.070	0.01	0.830	0.952
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 1	1	2412	15.50	16.00	1.122	93.46	1.070	0	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 1	6	2437	15.90	16.00	1.023	93.46	1.070	0.01	0.836	0.915
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 1	6	2437	15.20	16.00	1.202	93.46	1.070	0	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 1	11	2462	15.60	16.00	1.096	93.46	1.070	0	0.880	1.032
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 1	11	2462	15.00	16.00	1.259	93.46	1.070	0	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3(4)	Index 2	1	2412	13.40	14.00	1.148	93.46	1.070	-0.17	0.159	0.195
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3(3)	Index 2	1	2412	13.30	14.00	1.175	93.46	1.070	-0.19	0.148	0.186
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+3(4)	Index 2	1	2412	13.40	14.00	1.148	93.46	1.070	-0.14	0.253	0.311
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+3(3)	Index 2	1	2412	13.30	14.00	1.175	93.46	1.070	-0.14	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	Index 2	1	2412	13.40	14.00	1.148	93.46	1.070	-0.17	0.534	0.656
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	Index 2	1	2412	13.30	14.00	1.175	93.46	1.070	0.09	0.119	0.150
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 2	1	2412	13.40	14.00	1.148	93.46	1.070	-0.03	0.571	0.701
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 2	1	2412	13.30	14.00	1.175	93.46	1.070	-0.03	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 2	6	2437	13.50	14.00	1.122	93.46	1.070	-0.02	0.600	0.720
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 2	6	2437	13.10	14.00	1.230	93.46	1.070	-0.02	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 2	11	2462	13.20	14.00	1.202	93.46	1.070	0.01	0.502	0.646
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 2	11	2462	13.10	14.00	1.230	93.46	1.070	0.01	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3(4)	Index 3/4	1	2412	11.50	11.50	1.000	93.46	1.070	-0.05	0.068	0.073
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3(3)	Index 3/4	1	2412	11.30	11.50	1.047	93.46	1.070	-0.15	0.059	0.066
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+3(4)	Index 3/4	1	2412	11.50	11.50	1.000	93.46	1.070	-0.12	0.114	0.122
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+3(3)	Index 3/4	1	2412	11.30	11.50	1.047	93.46	1.070	0	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(4)	Index 3/4	1	2412	11.50	11.50	1.000	93.46	1.070	0.08	0.232	0.248
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3(3)	Index 3/4	1	2412	11.30	11.50	1.047	93.46	1.070	0.18	0.053	0.059
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 3/4	1	2412	11.50	11.50	1.000	93.46	1.070	0	0.243	0.260
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 3/4	1	2412	11.30	11.50	1.047	93.46	1.070	0	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 3/4	6	2437	11.10	11.50	1.096	93.46	1.070	-0.02	0.211	0.248
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 3/4	6	2437	10.60	11.50	1.230	93.46	1.070	0	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 3/4	11	2462	11.50	11.50	1.000	93.46	1.070	-0.03	0.289	0.309
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 3/4	11	2462	11.00	11.50	1.122	93.46	1.070	0	0.001	0.001



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
32	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 1	54	5270	17.80	19.00	1.318	96.15	1.040	-0.01	0.334	0.458
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 1	54	5270	17.30	19.00	1.479	96.15	1.040	-0.04	0.535	0.823
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 4+3(4)	Index 1	64	5320	17.50	19.00	1.413	93.46	1.070	0.03	0.276	0.417
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 4+3(3)	Index 1	64	5320	17.30	19.00	1.479	93.46	1.070	0.06	0.461	0.730
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 1	54	5270	17.80	19.00	1.318	96.15	1.040	0.01	0.345	0.473
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 1	54	5270	17.30	19.00	1.479	96.15	1.040	0.04	0.182	0.280
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1	54	5270	17.80	19.00	1.318	96.15	1.040	-0.01	0.607	0.832
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1	54	5270	17.30	19.00	1.479	96.15	1.040	0.01	0.451	0.694
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 4+3(4)	Index 1	64	5320	17.50	19.00	1.413	93.46	1.070	0.04	0.526	0.795
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 4+3(3)	Index 1	64	5320	17.30	19.00	1.479	93.46	1.070	-0.01	0.342	0.541
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 1	54	5270	17.80	19.00	1.318	96.15	1.040	-0.02	0.553	0.758
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 1	54	5270	17.30	19.00	1.479	96.15	1.040	-0.02	0.001	0.002
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 2	54	5270	17.80	18.00	1.047	96.15	1.040	-0.01	0.334	0.364
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 2	54	5270	17.30	18.00	1.175	96.15	1.040	-0.04	0.535	0.654
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 2	54	5270	17.80	18.00	1.047	96.15	1.040	0.01	0.345	0.376
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 2	54	5270	17.30	18.00	1.175	96.15	1.040	0.04	0.182	0.222
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 2	54	5270	17.80	18.00	1.047	96.15	1.040	-0.01	0.607	0.661
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 2	54	5270	17.30	18.00	1.175	96.15	1.040	0.01	0.451	0.551
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 2	62	5310	14.00	14.50	1.122	96.15	1.040	0.02	0.443	0.517
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 2	62	5310	13.70	14.50	1.202	96.15	1.040	0.01	0.329	0.411
WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 2	54	5270	17.80	18.00	1.047	96.15	1.040	-0.02	0.553	0.602	
WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 2	54	5270	17.30	18.00	1.175	96.15	1.040	-0.02	0.001	0.001	
WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 3/4	50	5250	14.20	14.50	1.072	87.95	1.137	0.04	0.109	0.133	
WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 3/4	50	5250	14.30	14.50	1.047	87.95	1.137	-0.07	0.257	0.306	
WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 3/4	50	5250	14.20	14.50	1.072	87.95	1.137	0.08	0.126	0.154	
WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 3/4	50	5250	14.30	14.50	1.047	87.95	1.137	0	0.001	0.001	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 3/4	50	5250	14.20	14.50	1.072	87.95	1.137	0.03	0.196	0.239	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 3/4	50	5250	14.30	14.50	1.047	87.95	1.137	-0.09	0.242	0.288	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 3/4	50	5250	14.20	14.50	1.072	87.95	1.137	0	0.174	0.212	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 3/4	50	5250	14.30	14.50	1.047	87.95	1.137	0	0.001	0.001	



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
33	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 1	122	5610	17.30	18.00	1.175	85.54	1.169	-0.12	0.165	0.227
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 1	122	5610	16.80	18.00	1.318	85.54	1.169	0.02	0.503	0.775
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 1	122	5610	17.30	18.00	1.175	85.54	1.169	-0.01	0.070	0.096
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 1	122	5610	16.80	18.00	1.318	85.54	1.169	-0.07	0.280	0.431
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1	122	5610	17.30	18.00	1.175	85.54	1.169	0.04	0.304	0.418
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1	122	5610	16.80	18.00	1.318	85.54	1.169	-0.04	0.584	0.900
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1	142	5710	17.90	18.00	1.023	96.15	1.040	0.06	0.432	0.460
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1	142	5710	18.00	18.00	1.000	96.15	1.040	0.01	0.512	0.532
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 1	122	5610	17.30	18.00	1.175	85.54	1.169	0.1	0.278	0.382
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 1	122	5610	16.80	18.00	1.318	85.54	1.169	0.1	0.135	0.208
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 2	122	5610	17.30	17.50	1.047	85.54	1.169	-0.12	0.165	0.202
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 2	122	5610	16.80	17.50	1.175	85.54	1.169	0.02	0.503	0.691
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 2	122	5610	17.30	17.50	1.047	85.54	1.169	-0.01	0.070	0.086
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 2	122	5610	16.80	17.50	1.175	85.54	1.169	-0.07	0.280	0.385
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 2	122	5610	17.30	17.50	1.047	85.54	1.169	0.04	0.304	0.372
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 2	122	5610	16.80	17.50	1.175	85.54	1.169	-0.04	0.571	0.784
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 2	106	5530	15.00	15.50	1.122	85.54	1.169	0.01	0.173	0.227
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 2	106	5530	15.10	15.50	1.096	85.54	1.169	0.01	0.333	0.427
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 2	138	5690	17.20	17.50	1.072	85.54	1.169	0.09	0.265	0.332
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 2	138	5690	16.70	17.50	1.202	85.54	1.169	0.09	0.509	0.715
WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 2	122	5610	17.30	17.50	1.047	85.54	1.169	0.1	0.278	0.340	
WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 2	122	5610	16.80	17.50	1.175	85.54	1.169	0.1	0.135	0.185	
WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 3/4	114	5570	13.20	13.50	1.072	87.95	1.137	-0.12	0.066	0.080	
WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 3/4	114	5570	13.30	13.50	1.047	87.95	1.137	-0.02	0.254	0.302	
WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 3/4	114	5570	13.20	13.50	1.072	87.95	1.137	-0.19	0.055	0.067	
WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 3/4	114	5570	13.30	13.50	1.047	87.95	1.137	0.12	0.117	0.139	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 3/4	114	5570	13.20	13.50	1.072	87.95	1.137	0.14	0.097	0.118	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 3/4	114	5570	13.30	13.50	1.047	87.95	1.137	-0.18	0.250	0.298	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 3/4	114	5570	13.20	13.50	1.072	87.95	1.137	0.12	0.098	0.119	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 3/4	114	5570	13.30	13.50	1.047	87.95	1.137	0.15	0.044	0.052	



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
34	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 1	155	5775	17.00	19.00	1.585	85.54	1.169	0.02	0.291	0.539
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 1	155	5775	17.20	19.00	1.514	85.54	1.169	-0.19	0.439	0.777
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 1	155	5775	17.00	19.00	1.585	85.54	1.169	-0.05	0.284	0.526
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 1	155	5775	17.20	19.00	1.514	85.54	1.169	0	0.001	0.002
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1	155	5775	17.00	19.00	1.585	85.54	1.169	-0.16	0.438	0.812
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1	155	5775	17.20	19.00	1.514	85.54	1.169	-0.03	0.595	1.053
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 1	155	5775	17.00	19.00	1.585	85.54	1.169	-0.1	0.461	0.854
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 1	155	5775	17.20	19.00	1.514	85.54	1.169	-0.03	0.158	0.280
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 2	155	5775	17.00	17.50	1.122	85.54	1.169	0.02	0.291	0.382
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 2	155	5775	17.20	17.50	1.072	85.54	1.169	-0.19	0.439	0.550
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 2	155	5775	17.00	17.50	1.122	85.54	1.169	-0.05	0.284	0.373
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 2	155	5775	17.20	17.50	1.072	85.54	1.169	0	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 2	155	5775	17.00	17.50	1.122	85.54	1.169	-0.16	0.438	0.574
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 2	155	5775	17.20	17.50	1.072	85.54	1.169	-0.03	0.595	0.745
35	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 2	155	5775	17.00	17.50	1.122	85.54	1.169	-0.1	0.461	0.605
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 2	155	5775	17.20	17.50	1.072	85.54	1.169	-0.03	0.158	0.198
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 3/4	155	5775	13.50	14.00	1.122	85.54	1.169	-0.16	0.110	0.144
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 3/4	155	5775	13.90	14.00	1.023	85.54	1.169	0.05	0.162	0.194
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 3/4	155	5775	13.50	14.00	1.122	85.54	1.169	-0.04	0.108	0.142
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 3/4	155	5775	13.90	14.00	1.023	85.54	1.169	-0.11	0.018	0.022
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 3/4	155	5775	13.50	14.00	1.122	85.54	1.169	-0.03	0.188	0.247
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 3/4	155	5775	13.90	14.00	1.023	85.54	1.169	0.04	0.242	0.289
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 3/4	155	5775	13.50	14.00	1.122	85.54	1.169	0.05	0.194	0.254
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 3/4	155	5775	13.90	14.00	1.023	85.54	1.169	0.13	0.059	0.071
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 1	163	5815	15.80	17.50	1.479	87.95	1.137	0.03	0.273	0.459
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 1	163	5815	16.40	17.50	1.288	87.95	1.137	-0.03	0.511	0.748
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 1	163	5815	15.80	17.50	1.479	87.95	1.137	0.13	0.234	0.394
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 1	163	5815	16.40	17.50	1.288	87.95	1.137	-0.11	0.267	0.391
WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1	163	5815	15.80	17.50	1.479	87.95	1.137	0.11	0.412	0.693	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1	163	5815	16.40	17.50	1.288	87.95	1.137	0.12	0.543	0.795	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 1	163	5815	15.80	17.50	1.479	87.95	1.137	0.03	0.452	0.760	
WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 1	163	5815	16.40	17.50	1.288	87.95	1.137	0.11	0.140	0.205	
36	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 2	163	5815	15.80	16.50	1.175	87.95	1.137	0.03	0.273	0.365
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 2	163	5815	16.40	16.50	1.023	87.95	1.137	-0.03	0.511	0.595
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 2	163	5815	15.80	16.50	1.175	87.95	1.137	0.13	0.234	0.313
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 2	163	5815	16.40	16.50	1.023	87.95	1.137	-0.11	0.267	0.311
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 2	163	5815	15.80	16.50	1.175	87.95	1.137	0.11	0.412	0.550
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 2	163	5815	16.40	16.50	1.023	87.95	1.137	0.12	0.543	0.632
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 2	163	5815	15.80	16.50	1.175	87.95	1.137	0.03	0.452	0.604
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 2	163	5815	16.40	16.50	1.023	87.95	1.137	0.11	0.140	0.163
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 3/4	163	5815	12.70	13.00	1.072	87.95	1.137	-0.12	0.116	0.141
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 3/4	163	5815	12.40	13.00	1.148	87.95	1.137	0.12	0.211	0.275
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 3/4	163	5815	12.70	13.00	1.072	87.95	1.137	-0.05	0.103	0.125
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 3/4	163	5815	12.40	13.00	1.148	87.95	1.137	0.01	0.114	0.149
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 3/4	163	5815	12.70	13.00	1.072	87.95	1.137	0.14	0.177	0.216
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 3/4	163	5815	12.40	13.00	1.148	87.95	1.137	0.12	0.230	0.300
WLAN5/6GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 3/4	163	5815	12.70	13.00	1.072	87.95	1.137	0.17	0.195	0.238	
WLAN5/6GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 3/4	163	5815	12.40	13.00	1.148	87.95	1.137	-0.15	0.055	0.072	



<6GHzWLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 4+3(4)	Index 1/2/3/4	111	6505	15.40	16.00	1.148	86.11	1.161	-0.09	0.121	0.161	0.802	1.069
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 4+3(3)	Index 1/2/3/4	111	6505	15.70	16.00	1.072	86.11	1.161	0.13	0.077	0.096	0.599	0.745
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 4+3(4)	Index 1/2/3/4	111	6505	15.40	16.00	1.148	86.11	1.161	0.14	0.089	0.119	0.617	0.822
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 4+3(3)	Index 1/2/3/4	111	6505	15.70	16.00	1.072	86.11	1.161	-0.03	0.070	0.087	0.502	0.625
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1/2/3/4	111	6505	15.40	16.00	1.148	86.11	1.161	0.07	0.203	0.271	1.280	1.706
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1/2/3/4	111	6505	15.70	16.00	1.072	86.11	1.161	0.07	0.176	0.219	1.350	1.679
36	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1/2/3/4	15	6025	12.90	13.50	1.148	86.11	1.161	-0.15	0.206	0.275	1.390	1.853
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1/2/3/4	15	6025	12.40	13.50	1.288	86.11	1.161	-0.07	0.141	0.211	1.010	1.511
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1/2/3/4	47	6185	13.20	13.50	1.072	86.11	1.161	-0.11	0.104	0.129	0.687	0.855
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1/2/3/4	47	6185	13.20	13.50	1.072	86.11	1.161	0	0.087	0.108	0.632	0.786
37	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1/2/3/4	143	6665	15.50	16.00	1.122	86.11	1.161	0	0.226	0.294	1.390	1.811
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1/2/3/4	143	6665	15.50	16.00	1.122	86.11	1.161	0.13	0.187	0.244	1.280	1.667
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 4+3(4)	Index 1/2/3/4	207	6985	14.50	15.00	1.122	86.11	1.161	0.02	0.148	0.193	0.974	1.269
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 4+3(3)	Index 1/2/3/4	207	6985	14.60	15.00	1.096	86.11	1.161	-0.02	0.069	0.088	0.510	0.649
	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 4+3(4)	Index 1/2/3/4	111	6505	15.40	16.00	1.148	86.11	1.161	-0.09	0.176	0.235	1.030	1.373
	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 4+3(3)	Index 1/2/3/4	111	6505	15.70	16.00	1.072	86.11	1.161	-0.02	0.011	0.014	0.082	0.102

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	Index 1	78	2480	8.90	9.00	1.023	76.86	1.084	-0.01	0.048	0.053
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	Index 1	78	2480	8.90	9.00	1.023	76.86	1.084	-0.05	0.056	0.062
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	Index 1	78	2480	8.90	9.00	1.023	76.86	1.084	0.06	0.140	0.155
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	Index 1	78	2480	8.90	9.00	1.023	76.86	1.084	-0.02	0.152	0.169
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	Index 1	0	2402	8.80	9.00	1.047	76.86	1.084	0.04	0.164	0.186
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	Index 1	39	2441	8.70	9.00	1.072	76.86	1.084	0.1	0.165	0.192
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	Index 1	0	2402	9.00	9.00	1.000	77.07	1.081	0.01	0.063	0.068
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3	Index 1	0	2402	9.00	9.00	1.000	77.07	1.081	0.05	0.015	0.016
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	Index 1	0	2402	9.00	9.00	1.000	77.07	1.081	-0.04	0.065	0.070
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	Index 1	39	2441	8.90	9.00	1.023	77.07	1.081	-0.05	0.082	0.091
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	Index 1	78	2480	8.60	9.00	1.096	77.07	1.081	0	0.121	0.143
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3	Index 1	0	2402	9.00	9.00	1.000	77.07	1.081	0.01	0.007	0.008
38	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4+3(4)	Index 1	0	2402	8.80	9.00	1.047	77.07	1.081	0.17	0.036	0.041
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4+3(3)	Index 1	0	2402	8.50	9.00	1.122	77.07	1.081	-0.15	0.031	0.038
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4+3(4)	Index 1	0	2402	8.80	9.00	1.047	77.07	1.081	0.09	0.056	0.063
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4+3(3)	Index 1	0	2402	8.50	9.00	1.122	77.07	1.081	-0.02	0.003	0.004
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4+3(4)	Index 1	0	2402	8.80	9.00	1.047	77.07	1.081	-0.11	0.123	0.139
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4+3(3)	Index 1	0	2402	8.50	9.00	1.122	77.07	1.081	0.04	0.021	0.025
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 1	0	2402	8.80	9.00	1.047	77.07	1.081	0.05	0.134	0.152
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 1	0	2402	8.50	9.00	1.122	77.07	1.081	-0.16	0.003	0.004
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 1	39	2441	8.90	9.00	1.023	77.07	1.081	-0.11	0.188	0.208
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 1	39	2441	8.30	9.00	1.175	77.07	1.081	-0.03	0.005	0.006
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4+3(4)	Index 1	78	2480	8.40	9.00	1.148	77.07	1.081	0.07	0.092	0.114
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4+3(3)	Index 1	78	2480	7.90	9.00	1.288	77.07	1.081	-0.11	0.005	0.007



15.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	Index 4	128	824.2	28.81	28.90	1.021	0.05	0.581	0.593
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	Index 4	128	824.2	28.81	28.90	1.021	0.04	0.729	0.744
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Side	10mm	Index 4	128	824.2	28.81	28.90	1.021	-0.11	0.616	0.629
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Side	10mm	Index 4	128	824.2	28.81	28.90	1.021	0.04	0.155	0.158
39	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	Index 4	128	824.2	28.81	28.90	1.021	-0.01	0.831	0.848
	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	Index 4	189	836.4	28.77	28.90	1.030	0.14	0.762	0.785
	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	Index 4	251	848.8	28.81	28.90	1.021	-0.08	0.735	0.750
	GSM850_Ant 1	GPRS (4 Tx slots)	Front	10mm	Index 4	128	824.2	28.37	28.90	1.130	-0.02	0.322	0.364
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	Index 4	128	824.2	28.37	28.90	1.130	-0.19	0.510	0.576
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	Index 4	189	836.4	28.25	28.90	1.161	0.11	0.725	0.842
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	Index 4	251	848.8	28.24	28.90	1.164	-0.19	0.620	0.722
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Side	10mm	Index 4	128	824.2	28.37	28.90	1.130	-0.01	0.192	0.217
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Side	10mm	Index 4	128	824.2	28.37	28.90	1.130	0.09	0.149	0.168
	GSM850_Ant 1	GPRS (4 Tx slots)	Top Side	10mm	Index 4	128	824.2	28.37	28.90	1.130	-0.01	0.247	0.279
	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	Index 4	512	1850.2	22.46	23.50	1.271	-0.06	0.212	0.269
	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	Index 4	512	1850.2	22.46	23.50	1.271	-0.09	0.270	0.343
	GSM1900_Ant 2	GPRS (4 Tx slots)	Left Side	10mm	Index 4	512	1850.2	22.46	23.50	1.271	0.06	0.060	0.076
	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Side	10mm	Index 4	512	1850.2	22.46	23.50	1.271	0.02	0.276	0.351
	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Side	10mm	Index 4	661	1880	22.35	23.50	1.303	-0.04	0.293	0.382
	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Side	10mm	Index 4	810	1909.8	22.25	23.50	1.334	0	0.255	0.340
	GSM1900_Ant 2	GPRS (4 Tx slots)	Bottom Side	10mm	Index 4	512	1850.2	22.46	23.50	1.271	0.14	0.054	0.069
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	Index 4	661	1880	22.21	22.50	1.069	-0.05	0.424	0.453
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	Index 4	661	1880	22.21	22.50	1.069	-0.04	0.360	0.385
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Side	10mm	Index 4	661	1880	22.21	22.50	1.069	0.04	0.112	0.120
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Side	10mm	Index 4	661	1880	22.21	22.50	1.069	0.19	0.018	0.019
	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	Index 4	661	1880	22.21	22.50	1.069	0.07	0.744	0.795
40	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	Index 4	512	1850.2	22.15	22.50	1.084	0.03	0.753	0.816
	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	Index 4	810	1909.8	21.91	22.50	1.146	0.16	0.633	0.725



<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Ant 2	RMC 12.2Kbps	Front	10mm	Index 4	9538	1907.6	20.70	20.70	1.000	-0.02	0.343	0.343
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	Index 4	9538	1907.6	20.70	20.70	1.000	0.01	0.327	0.327
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Side	10mm	Index 4	9538	1907.6	20.70	20.70	1.000	-0.16	0.089	0.089
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	Index 4	9538	1907.6	20.70	20.70	1.000	-0.02	0.460	0.460
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	Index 4	9262	1852.4	20.67	20.70	1.007	-0.18	0.441	0.444
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	Index 4	9400	1880	20.69	20.70	1.002	-0.05	0.425	0.426
	WCDMA II_Ant 2	RMC 12.2Kbps	Bottom Side	10mm	Index 4	9538	1907.6	20.70	20.70	1.000	-0.04	0.156	0.156
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	Index 4	9262	1852.4	18.37	18.70	1.079	-0.11	0.513	0.553
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	Index 4	9262	1852.4	18.37	18.70	1.079	-0.17	0.386	0.416
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Side	10mm	Index 4	9262	1852.4	18.37	18.70	1.079	-0.16	0.073	0.079
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Side	10mm	Index 4	9262	1852.4	18.37	18.70	1.079	0.19	0.013	0.014
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	Index 4	9262	1852.4	18.37	18.70	1.079	0.09	0.728	0.785
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	Index 4	9400	1880	18.25	18.70	1.109	-0.17	0.657	0.729
41	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	Index 4	9538	1907.6	18.31	18.70	1.094	-0.11	0.764	0.836
	WCDMA IV_Ant 2	RMC 12.2Kbps	Front	10mm	Index 4	1312	1712.4	20.51	20.70	1.045	-0.19	0.217	0.227
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Index 4	1312	1712.4	20.51	20.70	1.045	-0.12	0.258	0.270
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Index 4	1413	1732.6	20.20	20.70	1.122	0.01	0.284	0.319
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Index 4	1513	1752.6	20.39	20.70	1.074	0.1	0.271	0.291
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Side	10mm	Index 4	1312	1712.4	20.51	20.70	1.045	-0.11	0.049	0.051
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Side	10mm	Index 4	1312	1712.4	20.51	20.70	1.045	-0.07	0.247	0.258
	WCDMA IV_Ant 2	RMC 12.2Kbps	Bottom Side	10mm	Index 4	1312	1712.4	20.51	20.70	1.045	-0.08	0.136	0.142
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	Index 4	1413	1732.6	18.83	19.00	1.040	-0.01	0.524	0.545
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	Index 4	1413	1732.6	18.83	19.00	1.040	-0.14	0.384	0.399
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Side	10mm	Index 4	1413	1732.6	18.83	19.00	1.040	0.03	0.083	0.086
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Side	10mm	Index 4	1413	1732.6	18.83	19.00	1.040	0.01	0.039	0.041
42	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	Index 4	1413	1732.6	18.83	19.00	1.040	-0.06	0.715	0.744
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	Index 4	1312	1712.4	18.73	19.00	1.064	-0.1	0.603	0.642
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	Index 4	1513	1752.6	18.77	19.00	1.054	-0.02	0.663	0.699
	WCDMA V_Ant 0	RMC 12.2Kbps	Front	10mm	Index 4	4182	836.4	25.02	25.40	1.091	-0.01	0.505	0.551
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	Index 4	4182	836.4	25.02	25.40	1.091	-0.1	0.513	0.560
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Side	10mm	Index 4	4182	836.4	25.02	25.40	1.091	-0.07	0.533	0.582
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Side	10mm	Index 4	4182	836.4	25.02	25.40	1.091	-0.14	0.165	0.180
	WCDMA V_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	Index 4	4182	836.4	25.02	25.40	1.091	0.02	0.598	0.653
	WCDMA V_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	Index 4	4132	826.4	24.86	25.40	1.132	-0.14	0.590	0.668
43	WCDMA V_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	Index 4	4233	846.6	24.88	25.40	1.127	0.07	0.638	0.719
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	10mm	Index 4	4132	826.4	24.69	25.50	1.205	0.01	0.372	0.448
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Index 4	4132	826.4	24.69	25.50	1.205	-0.02	0.561	0.676
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Index 4	4182	836.4	24.64	25.50	1.219	-0.11	0.530	0.646
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Index 4	4233	846.6	24.58	25.50	1.236	0.06	0.514	0.635
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Side	10mm	Index 4	4132	826.4	24.69	25.50	1.205	-0.12	0.218	0.263
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Side	10mm	Index 4	4132	826.4	24.69	25.50	1.205	-0.02	0.154	0.186
	WCDMA V_Ant 1	RMC 12.2Kbps	Top Side	10mm	Index 4	4132	826.4	24.69	25.50	1.205	-0.02	0.260	0.313



<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2_Ant 1	20M	QPSK	1	0	Front	10mm	Index 4	19100	1900	20.58	20.80	1.052	0.02	0.370	0.389
	LTE Band 2_Ant 1	20M	QPSK	50	0	Front	10mm	Index 4	19100	1900	20.48	20.80	1.076	0.13	0.333	0.358
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	Index 4	19100	1900	20.58	20.80	1.052	0.01	0.380	0.400
	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	Index 4	19100	1900	20.48	20.80	1.076	-0.19	0.352	0.379
	LTE Band 2_Ant 1	20M	QPSK	1	0	Left Side	10mm	Index 4	19100	1900	20.58	20.80	1.052	0.01	0.050	0.053
	LTE Band 2_Ant 1	20M	QPSK	50	0	Left Side	10mm	Index 4	19100	1900	20.48	20.80	1.076	0.05	0.044	0.047
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Side	10mm	Index 4	19100	1900	20.58	20.80	1.052	-0.15	0.031	0.033
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Side	10mm	Index 4	19100	1900	20.48	20.80	1.076	-0.19	0.025	0.027
	LTE Band 2_Ant 1	20M	QPSK	1	0	Top Side	10mm	Index 4	19100	1900	20.58	20.80	1.052	0.17	0.686	0.722
	LTE Band 2_Ant 1	20M	QPSK	1	0	Top Side	10mm	Index 4	18700	1860	20.31	20.80	1.119	0.02	0.616	0.690
44	LTE Band 2_Ant 1	20M	QPSK	1	0	Top Side	10mm	Index 4	18900	1880	20.39	20.80	1.099	-0.01	0.699	0.768
	LTE Band 2_Ant 1	20M	QPSK	50	0	Top Side	10mm	Index 4	19100	1900	20.48	20.80	1.076	0.08	0.626	0.674
	LTE Band 2_Ant 5	20M	QPSK	1	0	Front	10mm	Index 4	18900	1880	21.55	21.70	1.035	-0.01	0.274	0.284
	LTE Band 2_Ant 5	20M	QPSK	50	0	Front	10mm	Index 4	18900	1880	21.50	21.70	1.047	0.13	0.268	0.281
	LTE Band 2_Ant 5	20M	QPSK	1	0	Back	10mm	Index 4	18900	1880	21.55	21.70	1.035	0.02	0.370	0.383
	LTE Band 2_Ant 5	20M	QPSK	50	0	Back	10mm	Index 4	18900	1880	21.50	21.70	1.047	0.02	0.314	0.329
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Side	10mm	Index 4	18900	1880	21.55	21.70	1.035	-0.06	0.019	0.020
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Side	10mm	Index 4	18900	1880	21.50	21.70	1.047	0.09	0.018	0.019
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Side	10mm	Index 4	18900	1880	21.55	21.70	1.035	-0.15	0.621	0.643
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Side	10mm	Index 4	18700	1860	21.52	21.70	1.042	-0.02	0.619	0.645
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Side	10mm	Index 4	19100	1900	21.46	21.70	1.057	0.19	0.572	0.604
	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Side	10mm	Index 4	18900	1880	21.50	21.70	1.047	0.19	0.581	0.608
	LTE Band 2_Ant 5	20M	QPSK	1	0	Top Side	10mm	Index 4	18900	1880	21.55	21.70	1.035	0.05	0.069	0.071
	LTE Band 2_Ant 5	20M	QPSK	50	0	Top Side	10mm	Index 4	18900	1880	21.50	21.70	1.047	0.02	0.048	0.050
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	Index 4	20850	2510	21.36	21.50	1.033	-0.01	0.399	0.412
	LTE Band 7_Ant 2	20M	QPSK	50	0	Front	10mm	Index 4	20850	2510	21.06	21.50	1.107	-0.14	0.343	0.380
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	Index 4	20850	2510	21.36	21.50	1.033	-0.11	0.392	0.405
	LTE Band 7_Ant 2	20M	QPSK	50	0	Back	10mm	Index 4	20850	2510	21.06	21.50	1.107	0.13	0.318	0.352
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Side	10mm	Index 4	20850	2510	21.36	21.50	1.033	-0.06	0.027	0.028
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Side	10mm	Index 4	20850	2510	21.06	21.50	1.107	0.06	0.021	0.023
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	20850	2510	21.36	21.50	1.033	-0.15	0.506	0.523
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	21100	2535	21.28	21.50	1.052	-0.19	0.497	0.523
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	21350	2560	21.33	21.50	1.040	-0.02	0.582	0.605
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Side	10mm	Index 4	20850	2510	21.06	21.50	1.107	-0.04	0.542	0.600
	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	Index 4	20850	2510	21.36	21.50	1.033	-0.04	0.172	0.178
	LTE Band 7_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	Index 4	20850	2510	21.06	21.50	1.107	0.12	0.157	0.174
	LTE Band 7C_Ant 2	20M+20M	QPSK	1	0	Right Side	10mm	Index 4	20850	2510	19.59	20.00	1.099	-0.08	0.268	0.295
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	Index 4	20850	2510	17.62	17.70	1.019	-0.02	0.373	0.380
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	Index 4	20850	2510	17.36	17.70	1.081	0.09	0.347	0.375
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	Index 4	20850	2510	17.62	17.70	1.019	0.01	0.432	0.440
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	Index 4	20850	2510	17.36	17.70	1.081	-0.06	0.346	0.374
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Side	10mm	Index 4	20850	2510	17.62	17.70	1.019	-0.04	0.056	0.057
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Side	10mm	Index 4	20850	2510	17.36	17.70	1.081	-0.01	0.033	0.036
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Side	10mm	Index 4	20850	2510	17.62	17.70	1.019	0.03	0.046	0.047
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Side	10mm	Index 4	20850	2510	17.36	17.70	1.081	-0.04	0.038	0.041
45	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	20850	2510	17.62	17.70	1.019	0.04	0.761	0.775
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	21100	2535	17.24	17.70	1.112	-0.09	0.574	0.638
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	21350	2560	17.04	17.70	1.164	0	0.483	0.562
	LTE Band 7_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	Index 4	20850	2510	17.36	17.70	1.081	-0.06	0.668	0.722
	LTE Band 7C_Ant 0	20M+20M	QPSK	1	0	Bottom Side	10mm	Index 4	20850	2510	15.72	16.80	1.282	0.02	0.482	0.618



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_Ant 0	10M	QPSK	1	0	Front	10mm	Index 4	23095	707.5	24.93	25.40	1.114	-0.14	0.258	0.287
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	Index 4	23095	707.5	23.92	24.40	1.117	-0.04	0.203	0.227
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	Index 4	23095	707.5	24.93	25.40	1.114	-0.06	0.318	0.354
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	Index 4	23095	707.5	23.92	24.40	1.117	-0.11	0.251	0.280
46	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Side	10mm	Index 4	23095	707.5	24.93	25.40	1.114	-0.06	0.428	0.477
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Side	10mm	Index 4	23095	707.5	23.92	24.40	1.117	-0.06	0.339	0.379
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Side	10mm	Index 4	23095	707.5	24.93	25.40	1.114	-0.16	0.187	0.208
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Side	10mm	Index 4	23095	707.5	23.92	24.40	1.117	-0.09	0.150	0.168
	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Index 4	23095	707.5	24.93	25.40	1.114	-0.15	0.306	0.341
	LTE Band 12_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	Index 4	23095	707.5	23.92	24.40	1.117	0.02	0.260	0.290
	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	Index 4	23095	707.5	24.70	25.50	1.202	-0.03	0.236	0.284
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	10mm	Index 4	23095	707.5	23.84	24.50	1.164	-0.04	0.193	0.225
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	Index 4	23095	707.5	24.70	25.50	1.202	0	0.386	0.464
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	10mm	Index 4	23095	707.5	23.84	24.50	1.164	-0.12	0.317	0.369
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Side	10mm	Index 4	23095	707.5	24.70	25.50	1.202	-0.14	0.145	0.174
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Side	10mm	Index 4	23095	707.5	23.84	24.50	1.164	0.05	0.115	0.134
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Side	10mm	Index 4	23095	707.5	24.70	25.50	1.202	-0.09	0.228	0.274
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Side	10mm	Index 4	23095	707.5	23.84	24.50	1.164	-0.15	0.185	0.215
	LTE Band 12_Ant 1	10M	QPSK	1	0	Top Side	10mm	Index 4	23095	707.5	24.70	25.50	1.202	-0.12	0.139	0.167
	LTE Band 12_Ant 1	10M	QPSK	25	0	Top Side	10mm	Index 4	23095	707.5	23.84	24.50	1.164	0.08	0.115	0.134
	LTE Band 13_Ant 0	10M	QPSK	1	0	Front	10mm	Index 4	23230	782	24.76	25.40	1.159	-0.1	0.339	0.393
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	Index 4	23230	782	23.90	24.40	1.122	0	0.278	0.312
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	Index 4	23230	782	24.76	25.40	1.159	-0.03	0.365	0.423
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	Index 4	23230	782	23.90	24.40	1.122	0.09	0.299	0.335
47	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Side	10mm	Index 4	23230	782	24.76	25.40	1.159	-0.02	0.415	0.481
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Side	10mm	Index 4	23230	782	23.90	24.40	1.122	0.13	0.345	0.387
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Side	10mm	Index 4	23230	782	24.76	25.40	1.159	-0.12	0.156	0.181
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Side	10mm	Index 4	23230	782	23.90	24.40	1.122	-0.13	0.128	0.144
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Index 4	23230	782	24.76	25.40	1.159	-0.01	0.399	0.462
	LTE Band 13_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	Index 4	23230	782	23.90	24.40	1.122	0.08	0.327	0.367
	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	10mm	Index 4	23230	782	24.74	25.50	1.191	-0.08	0.266	0.317
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	Index 4	23230	782	23.77	24.50	1.183	0.15	0.213	0.252
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	Index 4	23230	782	24.74	25.50	1.191	-0.09	0.371	0.442
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	Index 4	23230	782	23.77	24.50	1.183	-0.19	0.296	0.350
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Side	10mm	Index 4	23230	782	24.74	25.50	1.191	-0.14	0.151	0.180
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Side	10mm	Index 4	23230	782	23.77	24.50	1.183	-0.1	0.121	0.143
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Side	10mm	Index 4	23230	782	24.74	25.50	1.191	-0.15	0.179	0.213
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Side	10mm	Index 4	23230	782	23.77	24.50	1.183	0.08	0.142	0.168
	LTE Band 13_Ant 1	10M	QPSK	1	0	Top Side	10mm	Index 4	23230	782	24.74	25.50	1.191	-0.13	0.161	0.192
	LTE Band 13_Ant 1	10M	QPSK	25	0	Top Side	10mm	Index 4	23230	782	23.77	24.50	1.183	-0.11	0.128	0.151



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	Index 4	23330	793	24.77	25.40	1.156	-0.1	0.322	0.372
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	Index 4	23330	793	23.94	24.40	1.112	-0.02	0.266	0.296
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	Index 4	23330	793	24.77	25.40	1.156	-0.02	0.393	0.454
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	Index 4	23330	793	23.94	24.40	1.112	0.02	0.324	0.360
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Side	10mm	Index 4	23330	793	24.77	25.40	1.156	-0.19	0.348	0.402
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Side	10mm	Index 4	23330	793	23.94	24.40	1.112	-0.11	0.286	0.318
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Side	10mm	Index 4	23330	793	24.77	25.40	1.156	-0.1	0.153	0.177
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Side	10mm	Index 4	23330	793	23.94	24.40	1.112	-0.13	0.125	0.139
48	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Index 4	23330	793	24.77	25.40	1.156	-0.05	0.411	0.475
	LTE Band 14_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	Index 4	23330	793	23.94	24.40	1.112	0.17	0.339	0.377
	LTE Band 14_Ant 1	10M	QPSK	1	0	Front	10mm	Index 4	23330	793	24.77	25.50	1.183	-0.05	0.285	0.337
	LTE Band 14_Ant 1	10M	QPSK	25	0	Front	10mm	Index 4	23330	793	23.74	24.50	1.191	-0.04	0.225	0.268
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	Index 4	23330	793	24.77	25.50	1.183	-0.06	0.372	0.440
	LTE Band 14_Ant 1	10M	QPSK	25	0	Back	10mm	Index 4	23330	793	23.74	24.50	1.191	-0.05	0.301	0.359
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Side	10mm	Index 4	23330	793	24.77	25.50	1.183	-0.09	0.076	0.090
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Side	10mm	Index 4	23330	793	23.74	24.50	1.191	-0.1	0.059	0.070
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Side	10mm	Index 4	23330	793	24.77	25.50	1.183	-0.12	0.103	0.122
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Side	10mm	Index 4	23330	793	23.74	24.50	1.191	0.13	0.081	0.096
	LTE Band 14_Ant 1	10M	QPSK	1	0	Top Side	10mm	Index 4	23330	793	24.77	25.50	1.183	-0.09	0.123	0.146
	LTE Band 14_Ant 1	10M	QPSK	25	0	Top Side	10mm	Index 4	23330	793	23.74	24.50	1.191	-0.14	0.097	0.116
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	Index 4	26340	1880	20.98	21.00	1.005	0	0.362	0.364
	LTE Band 25_Ant 2	20M	QPSK	50	0	Front	10mm	Index 4	26340	1880	20.90	21.00	1.023	-0.08	0.333	0.341
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	Index 4	26340	1880	20.98	21.00	1.005	-0.07	0.341	0.343
	LTE Band 25_Ant 2	20M	QPSK	50	0	Back	10mm	Index 4	26340	1880	20.90	21.00	1.023	-0.04	0.328	0.336
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Side	10mm	Index 4	26340	1880	20.98	21.00	1.005	-0.01	0.075	0.075
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Side	10mm	Index 4	26340	1880	20.90	21.00	1.023	-0.05	0.060	0.061
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	26340	1880	20.98	21.00	1.005	-0.02	0.438	0.440
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	26140	1860	20.73	21.00	1.064	0.1	0.374	0.398
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	26590	1905	20.66	21.00	1.081	-0.03	0.399	0.431
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Side	10mm	Index 4	26340	1880	20.90	21.00	1.023	0.16	0.414	0.424
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	Index 4	26340	1880	20.98	21.00	1.005	-0.06	0.162	0.163
	LTE Band 25_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	Index 4	26340	1880	20.90	21.00	1.023	0.13	0.135	0.138
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	Index 4	26340	1880	18.20	18.20	1.000	-0.02	0.222	0.222
	LTE Band 25_Ant 0	20M	QPSK	50	0	Front	10mm	Index 4	26340	1880	18.18	18.20	1.005	0.04	0.216	0.217
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	Index 4	26340	1880	18.20	18.20	1.000	-0.02	0.210	0.210
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	Index 4	26340	1880	18.18	18.20	1.005	-0.05	0.211	0.212
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Side	10mm	Index 4	26340	1880	18.20	18.20	1.000	-0.02	0.104	0.104
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Side	10mm	Index 4	26340	1880	18.18	18.20	1.005	-0.01	0.075	0.075
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Side	10mm	Index 4	26340	1880	18.20	18.20	1.000	-0.06	0.016	0.016
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Side	10mm	Index 4	26340	1880	18.18	18.20	1.005	0.17	0.001	0.001
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	26340	1880	18.20	18.20	1.000	0.18	0.485	0.485
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	26140	1860	18.08	18.20	1.028	0	0.671	0.690
49	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	26590	1905	18.09	18.20	1.026	0.01	0.722	0.741
	LTE Band 25_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	Index 4	26340	1880	18.18	18.20	1.005	0.12	0.472	0.474



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26_Ant 0	15M	QPSK	1	0	Front	10mm	Index 4	26865	831.5	24.39	25.40	1.262	-0.16	0.495	0.625
	LTE Band 26_Ant 0	15M	QPSK	36	0	Front	10mm	Index 4	26865	831.5	23.50	24.40	1.230	0.06	0.378	0.465
50	LTE Band 26_Ant 0	15M	QPSK	1	0	Back	10mm	Index 4	26865	831.5	24.39	25.40	1.262	-0.02	0.568	0.717
	LTE Band 26_Ant 0	15M	QPSK	36	0	Back	10mm	Index 4	26865	831.5	23.50	24.40	1.230	0.11	0.462	0.568
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Side	10mm	Index 4	26865	831.5	24.39	25.40	1.262	-0.02	0.432	0.545
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Side	10mm	Index 4	26865	831.5	23.50	24.40	1.230	0.15	0.352	0.433
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Side	10mm	Index 4	26865	831.5	24.39	25.40	1.262	-0.01	0.136	0.172
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Side	10mm	Index 4	26865	831.5	23.50	24.40	1.230	0.04	0.110	0.135
	LTE Band 26_Ant 0	15M	QPSK	1	0	Bottom Side	10mm	Index 4	26865	831.5	24.39	25.40	1.262	-0.02	0.547	0.690
	LTE Band 26_Ant 0	15M	QPSK	36	0	Bottom Side	10mm	Index 4	26865	831.5	23.50	24.40	1.230	-0.02	0.445	0.547
	LTE Band 5B_Ant 0	10M+10M	QPSK	1	49	Back	10mm	Index 4	20475	831.5	22.75	23.70	1.245	0.03	0.386	0.480
	LTE Band 26_Ant 1	15M	QPSK	1	0	Front	10mm	Index 4	26865	831.5	24.33	25.40	1.279	0.08	0.337	0.431
	LTE Band 26_Ant 1	15M	QPSK	36	0	Front	10mm	Index 4	26865	831.5	23.28	24.40	1.294	0.17	0.264	0.342
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	Index 4	26865	831.5	24.33	25.40	1.279	0	0.539	0.690
	LTE Band 26_Ant 1	15M	QPSK	36	0	Back	10mm	Index 4	26865	831.5	23.28	24.40	1.294	-0.08	0.440	0.569
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Side	10mm	Index 4	26865	831.5	24.33	25.40	1.279	0.08	0.142	0.182
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Side	10mm	Index 4	26865	831.5	23.28	24.40	1.294	0.14	0.112	0.145
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Side	10mm	Index 4	26865	831.5	24.33	25.40	1.279	0	0.166	0.212
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Side	10mm	Index 4	26865	831.5	23.28	24.40	1.294	-0.16	0.130	0.168
	LTE Band 26_Ant 1	15M	QPSK	1	0	Top Side	10mm	Index 4	26865	831.5	24.33	25.40	1.279	0	0.179	0.229
	LTE Band 26_Ant 1	15M	QPSK	36	0	Top Side	10mm	Index 4	26865	831.5	23.28	24.40	1.294	0.18	0.140	0.181
	LTE Band 5B_Ant 1	10M+10M	QPSK	1	49	Back	10mm	Index 4	20475	831.5	22.50	24.10	1.445	-0.06	0.296	0.428
	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	Index 4	27710	2310	20.56	20.90	1.081	0.02	0.367	0.397
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	Index 4	27710	2310	20.37	20.90	1.130	-0.04	0.334	0.377
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	Index 4	27710	2310	20.56	20.90	1.081	-0.16	0.364	0.394
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	Index 4	27710	2310	20.37	20.90	1.130	-0.16	0.298	0.337
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Side	10mm	Index 4	27710	2310	20.56	20.90	1.081	-0.18	0.006	0.006
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Side	10mm	Index 4	27710	2310	20.37	20.90	1.130	-0.02	0.004	0.005
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Side	10mm	Index 4	27710	2310	20.56	20.90	1.081	-0.04	0.443	0.479
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Side	10mm	Index 4	27710	2310	20.37	20.90	1.130	0.02	0.422	0.477
	LTE Band 30_Ant 2	10M	QPSK	1	0	Bottom Side	10mm	Index 4	27710	2310	20.56	20.90	1.081	0.01	0.090	0.097
	LTE Band 30_Ant 2	10M	QPSK	25	0	Bottom Side	10mm	Index 4	27710	2310	20.37	20.90	1.130	0.03	0.078	0.088
	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	Index 4	27710	2310	18.16	18.20	1.009	-0.05	0.406	0.410
	LTE Band 30_Ant 0	10M	QPSK	25	0	Front	10mm	Index 4	27710	2310	17.96	18.20	1.057	-0.16	0.377	0.398
	LTE Band 30_Ant 0	10M	QPSK	1	0	Back	10mm	Index 4	27710	2310	18.16	18.20	1.009	-0.02	0.399	0.403
	LTE Band 30_Ant 0	10M	QPSK	25	0	Back	10mm	Index 4	27710	2310	17.96	18.20	1.057	0.06	0.358	0.378
	LTE Band 30_Ant 0	10M	QPSK	1	0	Left Side	10mm	Index 4	27710	2310	18.16	18.20	1.009	-0.02	0.079	0.080
	LTE Band 30_Ant 0	10M	QPSK	25	0	Left Side	10mm	Index 4	27710	2310	17.96	18.20	1.057	0.1	0.068	0.072
	LTE Band 30_Ant 0	10M	QPSK	1	0	Right Side	10mm	Index 4	27710	2310	18.16	18.20	1.009	0	0.039	0.039
	LTE Band 30_Ant 0	10M	QPSK	25	0	Right Side	10mm	Index 4	27710	2310	17.96	18.20	1.057	-0.06	0.033	0.035
51	LTE Band 30_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Index 4	27710	2310	18.16	18.20	1.009	-0.09	0.839	0.847
	LTE Band 30_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	Index 4	27710	2310	17.96	18.20	1.057	0.09	0.789	0.834
	LTE Band 30_Ant 0	10M	QPSK	50	0	Bottom Side	10mm	Index 4	27710	2310	17.90	18.20	1.072	0.1	0.782	0.838



FCC SAR TEST REPORT

Report No. : FA2D0206-01F

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_Ant 2	20M	QPSK	1	0	Front	10mm	Index 4	132572	1770	20.56	21.00	1.107	-0.04	0.252	0.279
	LTE Band 66_Ant 2	20M	QPSK	50	0	Front	10mm	Index 4	132572	1770	20.49	21.00	1.125	0.08	0.235	0.264
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Index 4	132572	1770	20.56	21.00	1.107	-0.13	0.307	0.340
	LTE Band 66_Ant 2	20M	QPSK	50	0	Back	10mm	Index 4	132572	1770	20.49	21.00	1.125	0.17	0.278	0.313
	LTE Band 66_Ant 2	20M	QPSK	1	0	Left Side	10mm	Index 4	132572	1770	20.56	21.00	1.107	-0.13	0.060	0.066
	LTE Band 66_Ant 2	20M	QPSK	50	0	Left Side	10mm	Index 4	132572	1770	20.49	21.00	1.125	0.18	0.057	0.064
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	132572	1770	20.56	21.00	1.107	0.05	0.362	0.401
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	132072	1720	20.27	21.00	1.183	0.09	0.315	0.373
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	132322	1745	20.33	21.00	1.167	0.09	0.331	0.386
	LTE Band 66_Ant 2	20M	QPSK	50	0	Right Side	10mm	Index 4	132572	1770	20.49	21.00	1.125	-0.08	0.308	0.346
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	Index 4	132572	1770	20.56	21.00	1.107	0.01	0.183	0.203
	LTE Band 66_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	Index 4	132572	1770	20.49	21.00	1.125	-0.09	0.174	0.196
	LTE Band 66B_Ant 2	15M+5M	QPSK	1	0	Right Side	10mm	Index 4	132322	1745	18.75	19.40	1.161	-0.04	0.226	0.262
	LTE Band 66C_Ant 2	20M+20M	QPSK	1	0	Right Side	10mm	Index 4	132322	1745	18.81	19.40	1.146	0.08	0.235	0.269
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	Index 4	132572	1770	18.38	18.40	1.005	-0.03	0.435	0.437
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	Index 4	132572	1770	18.30	18.40	1.023	0.03	0.401	0.410
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	Index 4	132572	1770	18.38	18.40	1.005	-0.15	0.412	0.414
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	Index 4	132572	1770	18.30	18.40	1.023	0.07	0.387	0.396
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Side	10mm	Index 4	132572	1770	18.38	18.40	1.005	-0.02	0.064	0.064
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Side	10mm	Index 4	132572	1770	18.30	18.40	1.023	-0.1	0.055	0.056
	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Side	10mm	Index 4	132572	1770	18.38	18.40	1.005	-0.14	0.019	0.019
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Side	10mm	Index 4	132572	1770	18.30	18.40	1.023	0.14	0.006	0.006
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	132572	1770	18.38	18.40	1.005	-0.02	0.816	0.820
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	132072	1720	18.05	18.40	1.084	0	0.682	0.739
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	132322	1745	18.22	18.40	1.042	0	0.721	0.752
	LTE Band 66_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	Index 4	132572	1770	18.30	18.40	1.023	-0.02	0.776	0.794
	LTE Band 66_Ant 0	20M	QPSK	100	0	Bottom Side	10mm	Index 4	132572	1770	18.33	18.40	1.016	-0.01	0.754	0.766
	LTE Band 66B_Ant 0	15M+5M	QPSK	1	0	Bottom Side	10mm	Index 4	132322	1745	16.81	17.60	1.199	0.02	0.551	0.661
	LTE Band 66C_Ant 0	20M+20M	QPSK	1	0	Bottom Side	10mm	Index 4	132322	1745	16.81	17.60	1.199	0.08	0.560	0.672
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	Index 4	132322	1745	21.80	22.00	1.047	-0.03	0.364	0.381
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	Index 4	132322	1745	21.77	22.00	1.054	-0.09	0.321	0.338
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Index 4	132322	1745	21.80	22.00	1.047	0.01	0.393	0.412
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	Index 4	132322	1745	21.77	22.00	1.054	0.06	0.324	0.342
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Side	10mm	Index 4	132322	1745	21.80	22.00	1.047	-0.14	0.127	0.133
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Side	10mm	Index 4	132322	1745	21.77	22.00	1.054	-0.09	0.098	0.103
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Side	10mm	Index 4	132322	1745	21.80	22.00	1.047	-0.07	0.031	0.032
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Side	10mm	Index 4	132322	1745	21.77	22.00	1.054	-0.09	0.028	0.030
52	LTE Band 66_Ant 1	20M	QPSK	1	0	Top Side	10mm	Index 4	132322	1745	21.80	22.00	1.047	0.01	0.792	0.829
	LTE Band 66_Ant 1	20M	QPSK	1	0	Top Side	10mm	Index 4	132072	1720	21.66	22.00	1.081	0.1	0.745	0.806
	LTE Band 66_Ant 1	20M	QPSK	1	0	Top Side	10mm	Index 4	132572	1770	21.63	22.00	1.089	0.05	0.709	0.772
	LTE Band 66_Ant 1	20M	QPSK	50	0	Top Side	10mm	Index 4	132322	1745	21.77	22.00	1.054	-0.04	0.626	0.660
	LTE Band 66_Ant 1	20M	QPSK	100	0	Top Side	10mm	Index 4	132322	1745	21.44	22.00	1.138	0.18	0.610	0.694
	LTE Band 66_Ant 5	20M	QPSK	1	0	Front	10mm	Index 4	132322	1745	21.74	22.40	1.164	-0.01	0.219	0.255
	LTE Band 66_Ant 5	20M	QPSK	50	0	Front	10mm	Index 4	132322	1745	21.62	22.40	1.197	0.11	0.177	0.212
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	Index 4	132322	1745	21.74	22.40	1.164	-0.02	0.272	0.317
	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	Index 4	132322	1745	21.62	22.40	1.197	0.08	0.233	0.279
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Side	10mm	Index 4	132322	1745	21.74	22.40	1.164	-0.13	0.022	0.026
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Side	10mm	Index 4	132322	1745	21.62	22.40	1.197	0	0.009	0.011
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Side	10mm	Index 4	132322	1745	21.74	22.40	1.164	0	0.502	0.584
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Side	10mm	Index 4	132072	1720	21.65	22.40	1.189	-0.03	0.410	0.487
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Side	10mm	Index 4	132572	1770	21.68	22.40	1.180	-0.18	0.485	0.572
	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Side	10mm	Index 4	132322	1745	21.62	22.40	1.197	0.11	0.425	0.509
	LTE Band 66_Ant 5	20M	QPSK	1	0	Top Side	10mm	Index 4	132322	1745	21.74	22.40	1.164	-0.03	0.038	0.044



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	LTE Band 66_Ant 5	20M	QPSK	50	0	Top Side	10mm	Index 4	132322	1745	21.62	22.40	1.197	0.08	0.001	0.001
	LTE Band 71_Ant 0	20M	QPSK	1	0	Front	10mm	Index 4	133297	680.5	24.61	25.40	1.199	-0.08	0.288	0.345
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	Index 4	133297	680.5	23.60	24.40	1.202	0.02	0.225	0.271
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	Index 4	133297	680.5	24.61	25.40	1.199	-0.01	0.294	0.353
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	Index 4	133297	680.5	23.60	24.40	1.202	0.01	0.232	0.279
53	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Side	10mm	Index 4	133297	680.5	24.61	25.40	1.199	-0.01	0.463	0.555
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Side	10mm	Index 4	133297	680.5	23.60	24.40	1.202	-0.04	0.375	0.451
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Side	10mm	Index 4	133297	680.5	24.61	25.40	1.199	0	0.188	0.226
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Side	10mm	Index 4	133297	680.5	23.60	24.40	1.202	0.05	0.149	0.179
	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	133297	680.5	24.61	25.40	1.199	-0.01	0.294	0.353
	LTE Band 71_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	Index 4	133297	680.5	23.60	24.40	1.202	0.06	0.248	0.298
	LTE Band 71_Ant 1	20M	QPSK	1	0	Front	10mm	Index 4	133297	680.5	24.45	25.50	1.274	-0.06	0.273	0.348
	LTE Band 71_Ant 1	20M	QPSK	50	0	Front	10mm	Index 4	133297	680.5	23.45	24.50	1.274	0.09	0.237	0.302
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	Index 4	133297	680.5	24.45	25.50	1.274	-0.1	0.316	0.402
	LTE Band 71_Ant 1	20M	QPSK	50	0	Back	10mm	Index 4	133297	680.5	23.45	24.50	1.274	-0.03	0.213	0.271
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Side	10mm	Index 4	133297	680.5	24.45	25.50	1.274	-0.02	0.196	0.250
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Side	10mm	Index 4	133297	680.5	23.45	24.50	1.274	-0.03	0.109	0.139
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Side	10mm	Index 4	133297	680.5	24.45	25.50	1.274	0	0.131	0.167
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Side	10mm	Index 4	133297	680.5	23.45	24.50	1.274	0	0.079	0.101
	LTE Band 71_Ant 1	20M	QPSK	1	0	Top Side	10mm	Index 4	133297	680.5	24.45	25.50	1.274	-0.06	0.113	0.144
	LTE Band 71_Ant 1	20M	QPSK	50	0	Top Side	10mm	Index 4	133297	680.5	23.45	24.50	1.274	-0.15	0.076	0.097



<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	Index 4	39750	2506	22.97	23.20	1.054	62.9	1.006	0.1	0.322	0.342
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	Index 4	39750	2506	22.33	22.90	1.140	62.9	1.006	0.03	0.278	0.319
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	Index 4	39750	2506	22.97	23.20	1.054	62.9	1.006	-0.06	0.261	0.277
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	Index 4	39750	2506	22.33	22.90	1.140	62.9	1.006	0	0.225	0.258
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Side	10mm	Index 4	39750	2506	22.97	23.20	1.054	62.9	1.006	-0.15	0.007	0.007
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Side	10mm	Index 4	39750	2506	22.33	22.90	1.140	62.9	1.006	0.03	0.004	0.005
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	39750	2506	22.97	23.20	1.054	62.9	1.006	0.07	0.421	0.447
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	40185	2549.5	22.72	23.20	1.117	62.9	1.006	-0.06	0.424	0.476
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	40620	2593	22.77	23.20	1.104	62.9	1.006	-0.05	0.453	0.503
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	41055	2636.5	22.79	23.20	1.099	62.9	1.006	-0.01	0.426	0.471
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	41490	2680	22.74	23.20	1.112	62.9	1.006	-0.1	0.385	0.431
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Side	10mm	Index 4	39750	2506	22.33	22.90	1.140	62.9	1.006	0.18	0.386	0.443
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	Index 4	39750	2506	22.97	23.20	1.054	62.9	1.006	-0.06	0.137	0.145
	LTE Band 41_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	Index 4	39750	2506	22.33	22.90	1.140	62.9	1.006	-0.16	0.175	0.201
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Side	10mm	Index 4	39750	2506	24.43	24.80	1.089	42.9	1.009	0.06	0.360	0.396
	LTE Band 38C_Ant 2	20M+20M	QPSK	1	0	Right Side	10mm	Index 4	38150	2610	22.78	23.20	1.102	62.9	1.006	0.07	0.396	0.439
	LTE Band 41C_Ant 2	20M+20M	QPSK	1	0	Right Side	10mm	Index 4	39750	2506	22.94	23.20	1.062	62.9	1.006	-0.07	0.415	0.443
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	Index 4	39750	2506	19.16	19.30	1.033	62.9	1.006	-0.04	0.433	0.450
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	Index 4	39750	2506	19.09	19.30	1.050	62.9	1.006	0.09	0.386	0.408
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	Index 4	39750	2506	19.16	19.30	1.033	62.9	1.006	-0.02	0.395	0.410
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	Index 4	39750	2506	19.09	19.30	1.050	62.9	1.006	-0.09	0.374	0.395
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Side	10mm	Index 4	39750	2506	19.16	19.30	1.033	62.9	1.006	-0.12	0.040	0.042
	LTE Band 41_Ant 0	20M	QPSK	50	0	Left Side	10mm	Index 4	39750	2506	19.09	19.30	1.050	62.9	1.006	0.07	0.032	0.034
	LTE Band 41_Ant 0	20M	QPSK	1	0	Right Side	10mm	Index 4	39750	2506	19.16	19.30	1.033	62.9	1.006	0.16	0.019	0.020
	LTE Band 41_Ant 0	20M	QPSK	50	0	Right Side	10mm	Index 4	39750	2506	19.09	19.30	1.050	62.9	1.006	0.18	0.030	0.032
54	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	39750	2506	19.16	19.30	1.033	62.9	1.006	0.02	0.755	0.784
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	40185	2549.5	18.66	19.30	1.159	62.9	1.006	0.02	0.372	0.434
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	40620	2593	18.87	19.30	1.104	62.9	1.006	-0.01	0.500	0.555
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	41055	2636.5	18.99	19.30	1.074	62.9	1.006	-0.04	0.316	0.341
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	41490	2680	18.92	19.30	1.091	62.9	1.006	0.08	0.299	0.328
	LTE Band 41_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	Index 4	39750	2506	19.09	19.30	1.050	62.9	1.006	-0.01	0.741	0.782
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	39750	2506	20.63	20.90	1.064	42.9	1.009	-0.02	0.729	0.783
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	40185	2549.5	20.38	20.90	1.127	42.9	1.009	-0.18	0.359	0.408
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	40620	2593	20.46	20.90	1.107	42.9	1.009	-0.19	0.482	0.538
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	41055	2636.5	20.47	20.90	1.104	42.9	1.009	0.19	0.305	0.340
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Index 4	41490	2680	20.46	20.90	1.107	42.9	1.009	0.02	0.288	0.322
	LTE Band 38C_Ant 0	20M+20M	QPSK	1	0	Bottom Side	10mm	Index 4	38150	2610	18.84	19.30	1.112	62.9	1.006	0.1	0.653	0.730
	LTE Band 41C_Ant 0	20M+20M	QPSK	1	0	Bottom Side	10mm	Index 4	39750	2506	18.99	19.30	1.074	62.9	1.006	-0.03	0.686	0.741
	LTE Band 41C_Ant 0	20M+20M	QPSK	1	0	Bottom Side	10mm	Index 4	40185	2549.5	18.50	19.30	1.202	62.9	1.006	0.19	0.452	0.547
	LTE Band 41C_Ant 0	20M+20M	QPSK	1	0	Bottom Side	10mm	Index 4	40620	2593	18.69	19.30	1.151	62.9	1.006	0.03	0.295	0.342
	LTE Band 41C_Ant 0	20M+20M	QPSK	1	0	Bottom Side	10mm	Index 4	41055	2636.5	18.95	19.30	1.084	62.9	1.006	-0.06	0.294	0.321
	LTE Band 41C_Ant 0	20M+20M	QPSK	1	0	Bottom Side	10mm	Index 4	41490	2680	18.86	19.30	1.107	62.9	1.006	0	0.287	0.320



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	Index 4	56150	3641	20.70	20.70	1.000	62.9	1.006	-0.16	0.171	0.172
	LTE Band 48_Ant 6	20M	QPSK	50	0	Front	10mm	Index 4	56150	3641	20.62	20.70	1.019	62.9	1.006	0.1	0.156	0.160
	LTE Band 48_Ant 6	20M	QPSK	1	0	Back	10mm	Index 4	56150	3641	20.70	20.70	1.000	62.9	1.006	-0.03	0.131	0.132
	LTE Band 48_Ant 6	20M	QPSK	50	0	Back	10mm	Index 4	56150	3641	20.62	20.70	1.019	62.9	1.006	-0.1	0.115	0.118
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Side	10mm	Index 4	56150	3641	20.70	20.70	1.000	62.9	1.006	0.14	0.345	0.347
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Side	10mm	Index 4	55340	3560	20.55	20.70	1.035	62.9	1.006	0.07	0.213	0.222
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Side	10mm	Index 4	55830	3609	20.44	20.70	1.062	62.9	1.006	0.11	0.332	0.355
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Side	10mm	Index 4	56640	3690	20.54	20.70	1.038	62.9	1.006	-0.15	0.337	0.352
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Side	10mm	Index 4	56150	3641	20.62	20.70	1.019	62.9	1.006	0.06	0.318	0.326
	LTE Band 48_Ant 6	20M	QPSK	1	0	Right Side	10mm	Index 4	56150	3641	20.70	20.70	1.000	62.9	1.006	0.01	0.009	0.009
	LTE Band 48_Ant 6	20M	QPSK	50	0	Right Side	10mm	Index 4	56150	3641	20.62	20.70	1.019	62.9	1.006	-0.01	0.006	0.006
	LTE Band 48_Ant 6	20M	QPSK	1	0	Bottom Side	10mm	Index 4	56150	3641	20.70	20.70	1.000	62.9	1.006	-0.07	0.100	0.101
	LTE Band 48_Ant 6	20M	QPSK	50	0	Bottom Side	10mm	Index 4	56150	3641	20.62	20.70	1.019	62.9	1.006	0.06	0.098	0.100
	LTE Band 48_Ant 7	20M	QPSK	1	0	Front	10mm	Index 4	56150	3641	23.10	23.70	1.148	62.9	1.006	0.06	0.317	0.366
	LTE Band 48_Ant 7	20M	QPSK	50	0	Front	10mm	Index 4	56150	3641	21.96	23.70	1.493	62.9	1.006	-0.06	0.248	0.372
	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	Index 4	56150	3641	23.10	23.70	1.148	62.9	1.006	0.12	0.469	0.542
	LTE Band 48_Ant 7	20M	QPSK	50	0	Back	10mm	Index 4	56150	3641	21.96	23.70	1.493	62.9	1.006	0.01	0.347	0.521
	LTE Band 48_Ant 7	20M	QPSK	1	0	Left Side	10mm	Index 4	56150	3641	23.10	23.70	1.148	62.9	1.006	0.14	0.018	0.021
	LTE Band 48_Ant 7	20M	QPSK	50	0	Left Side	10mm	Index 4	56150	3641	21.96	23.70	1.493	62.9	1.006	-0.07	0.010	0.015
	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Side	10mm	Index 4	56150	3641	23.10	23.70	1.148	62.9	1.006	-0.13	0.669	0.773
	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Side	10mm	Index 4	55340	3560	22.92	23.70	1.197	62.9	1.006	-0.14	0.488	0.588
55	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Side	10mm	Index 4	55830	3609	22.88	23.70	1.208	62.9	1.006	0.08	0.653	0.793
	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Side	10mm	Index 4	56640	3690	22.86	23.70	1.213	62.9	1.006	0.18	0.587	0.717
	LTE Band 48_Ant 7	20M	QPSK	50	0	Right Side	10mm	Index 4	56150	3641	21.96	23.70	1.493	62.9	1.006	-0.09	0.479	0.719
	LTE Band 48_Ant 7	20M	QPSK	1	0	Bottom Side	10mm	Index 4	56150	3641	23.10	23.70	1.148	62.9	1.006	0.15	0.067	0.077
	LTE Band 48_Ant 7	20M	QPSK	50	0	Bottom Side	10mm	Index 4	56150	3641	21.96	23.70	1.493	62.9	1.006	0.07	0.046	0.069



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n2_Ant 1	20M	QPSK	1	1	Front	10mm	Index 4	376000	1880	20.58	20.80	1.052	0.04	0.272	0.286
	FR1 n2_Ant 1	20M	QPSK	50	28	Front	10mm	Index 4	376000	1880	20.47	20.80	1.079	-0.16	0.262	0.283
	FR1 n2_Ant 1	20M	QPSK	1	1	Back	10mm	Index 4	376000	1880	20.58	20.80	1.052	0.1	0.282	0.297
	FR1 n2_Ant 1	20M	QPSK	50	28	Back	10mm	Index 4	376000	1880	20.47	20.80	1.079	0.08	0.273	0.295
	FR1 n2_Ant 1	20M	QPSK	1	1	Left Side	10mm	Index 4	376000	1880	20.58	20.80	1.052	0.16	0.061	0.064
	FR1 n2_Ant 1	20M	QPSK	50	28	Left Side	10mm	Index 4	376000	1880	20.47	20.80	1.079	0.15	0.055	0.059
	FR1 n2_Ant 1	20M	QPSK	1	1	Right Side	10mm	Index 4	376000	1880	20.58	20.80	1.052	0.11	0.010	0.011
	FR1 n2_Ant 1	20M	QPSK	50	28	Right Side	10mm	Index 4	376000	1880	20.47	20.80	1.079	0.04	0.008	0.009
	FR1 n2_Ant 1	20M	QPSK	1	1	Top Side	10mm	Index 4	376000	1880	20.58	20.80	1.052	-0.12	0.759	0.798
	FR1 n2_Ant 1	20M	QPSK	1	1	Top Side	10mm	Index 4	372000	1860	20.48	20.80	1.076	0.07	0.762	0.820
56	FR1 n2_Ant 1	20M	QPSK	1	1	Top Side	10mm	Index 4	380000	1900	20.55	20.80	1.059	-0.14	0.795	0.842
	FR1 n2_Ant 1	20M	QPSK	50	28	Top Side	10mm	Index 4	376000	1880	20.47	20.80	1.079	-0.12	0.744	0.803
	FR1 n2_Ant 1	20M	QPSK	50	28	Top Side	10mm	Index 4	372000	1860	20.32	20.80	1.117	0.07	0.706	0.789
	FR1 n2_Ant 1	20M	QPSK	50	28	Top Side	10mm	Index 4	380000	1900	20.40	20.80	1.096	0.07	0.732	0.803
	FR1 n2_Ant 1	20M	QPSK	100	0	Top Side	10mm	Index 4	376000	1880	20.44	20.80	1.086	0.07	0.753	0.818
	FR1 n2_Ant 5	20M	QPSK	1	1	Front	10mm	Index 4	376000	1880	21.45	21.60	1.035	-0.1	0.332	0.344
	FR1 n2_Ant 5	20M	QPSK	50	28	Front	10mm	Index 4	376000	1880	21.43	21.60	1.040	-0.18	0.314	0.327
	FR1 n2_Ant 5	20M	QPSK	1	1	Back	10mm	Index 4	376000	1880	21.45	21.60	1.035	0.17	0.456	0.472
	FR1 n2_Ant 5	20M	QPSK	50	28	Back	10mm	Index 4	376000	1880	21.43	21.60	1.040	-0.02	0.429	0.446
	FR1 n2_Ant 5	20M	QPSK	1	1	Left Side	10mm	Index 4	376000	1880	21.45	21.60	1.035	-0.09	0.025	0.026
	FR1 n2_Ant 5	20M	QPSK	50	28	Left Side	10mm	Index 4	376000	1880	21.43	21.60	1.040	0.07	0.015	0.016
	FR1 n2_Ant 5	20M	QPSK	1	1	Right Side	10mm	Index 4	376000	1880	21.45	21.60	1.035	0.11	0.695	0.719
	FR1 n2_Ant 5	20M	QPSK	1	1	Right Side	10mm	Index 4	372000	1860	21.36	21.60	1.057	0.1	0.795	0.840
	FR1 n2_Ant 5	20M	QPSK	1	1	Right Side	10mm	Index 4	380000	1900	21.42	21.60	1.042	-0.15	0.723	0.754
	FR1 n2_Ant 5	20M	QPSK	50	28	Right Side	10mm	Index 4	376000	1880	21.43	21.60	1.040	0.05	0.652	0.678
	FR1 n2_Ant 5	20M	QPSK	50	28	Right Side	10mm	Index 4	372000	1860	21.29	21.60	1.074	0.11	0.759	0.815
	FR1 n2_Ant 5	20M	QPSK	50	28	Right Side	10mm	Index 4	380000	1900	21.38	21.60	1.052	-0.15	0.711	0.748
	FR1 n2_Ant 5	20M	QPSK	100	0	Right Side	10mm	Index 4	376000	1880	21.40	21.60	1.047	0.07	0.754	0.790
	FR1 n2_Ant 5	20M	QPSK	1	1	Top Side	10mm	Index 4	376000	1880	21.45	21.60	1.035	-0.18	0.083	0.086
	FR1 n2_Ant 5	20M	QPSK	50	28	Top Side	10mm	Index 4	376000	1880	21.43	21.60	1.040	0.12	0.069	0.072
	FR1 n7_Ant 2	50M	QPSK	1	1	Front	10mm	Index 4	507000	2535	21.94	22.10	1.038	-0.14	0.621	0.644
	FR1 n7_Ant 2	50M	QPSK	135	68	Front	10mm	Index 4	507000	2535	21.87	22.10	1.054	0.15	0.610	0.643
	FR1 n7_Ant 2	50M	QPSK	1	1	Back	10mm	Index 4	507000	2535	21.94	22.10	1.038	-0.09	0.488	0.506
	FR1 n7_Ant 2	50M	QPSK	135	68	Back	10mm	Index 4	507000	2535	21.87	22.10	1.054	0.11	0.467	0.492
	FR1 n7_Ant 2	50M	QPSK	1	1	Left Side	10mm	Index 4	507000	2535	21.94	22.10	1.038	0.18	0.039	0.040
	FR1 n7_Ant 2	50M	QPSK	135	68	Left Side	10mm	Index 4	507000	2535	21.87	22.10	1.054	-0.07	0.036	0.038
	FR1 n7_Ant 2	50M	QPSK	1	1	Right Side	10mm	Index 4	507000	2535	21.94	22.10	1.038	-0.19	0.660	0.685
	FR1 n7_Ant 2	50M	QPSK	135	68	Right Side	10mm	Index 4	507000	2535	21.87	22.10	1.054	-0.12	0.637	0.672
	FR1 n7_Ant 2	50M	QPSK	1	1	Bottom Side	10mm	Index 4	507000	2535	21.94	22.10	1.038	0.04	0.224	0.232
	FR1 n7_Ant 2	50M	QPSK	135	68	Bottom Side	10mm	Index 4	507000	2535	21.87	22.10	1.054	0.03	0.218	0.230
	FR1 n7_Ant 0	50M	QPSK	1	1	Front	10mm	Index 4	507000	2535	17.76	18.40	1.159	-0.17	0.379	0.439
	FR1 n7_Ant 0	50M	QPSK	135	68	Front	10mm	Index 4	507000	2535	17.48	18.40	1.236	0.03	0.325	0.402
	FR1 n7_Ant 0	50M	QPSK	1	1	Back	10mm	Index 4	507000	2535	17.76	18.40	1.159	-0.19	0.300	0.348
	FR1 n7_Ant 0	50M	QPSK	135	68	Back	10mm	Index 4	507000	2535	17.48	18.40	1.236	-0.02	0.267	0.330
	FR1 n7_Ant 0	50M	QPSK	1	1	Left Side	10mm	Index 4	507000	2535	17.76	18.40	1.159	-0.17	0.062	0.072
	FR1 n7_Ant 0	50M	QPSK	135	68	Left Side	10mm	Index 4	507000	2535	17.48	18.40	1.236	-0.16	0.051	0.063
	FR1 n7_Ant 0	50M	QPSK	1	1	Right Side	10mm	Index 4	507000	2535	17.76	18.40	1.159	-0.18	0.032	0.037
	FR1 n7_Ant 0	50M	QPSK	135	68	Right Side	10mm	Index 4	507000	2535	17.48	18.40	1.236	0.18	0.026	0.032
57	FR1 n7_Ant 0	50M	QPSK	1	1	Bottom Side	10mm	Index 4	507000	2535	17.76	18.40	1.159	-0.16	0.655	0.759
	FR1 n7_Ant 0	50M	QPSK	135	68	Bottom Side	10mm	Index 4	507000	2535	17.48	18.40	1.236	0.02	0.581	0.718



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n12_Ant 0	15M	QPSK	1	1	Front	10mm	Index 4	141500	707.5	24.53	25.40	1.222	-0.14	0.264	0.323
	FR1 n12_Ant 0	15M	QPSK	36	22	Front	10mm	Index 4	141500	707.5	24.48	25.40	1.236	0.17	0.255	0.315
	FR1 n12_Ant 0	15M	QPSK	1	1	Back	10mm	Index 4	141500	707.5	24.53	25.40	1.222	-0.18	0.301	0.368
	FR1 n12_Ant 0	15M	QPSK	36	22	Back	10mm	Index 4	141500	707.5	24.48	25.40	1.236	-0.07	0.291	0.360
58	FR1 n12_Ant 0	15M	QPSK	1	1	Left Side	10mm	Index 4	141500	707.5	24.53	25.40	1.222	-0.12	0.426	0.520
	FR1 n12_Ant 0	15M	QPSK	36	22	Left Side	10mm	Index 4	141500	707.5	24.48	25.40	1.236	-0.1	0.401	0.496
	FR1 n12_Ant 0	15M	QPSK	1	1	Right Side	10mm	Index 4	141500	707.5	24.53	25.40	1.222	-0.1	0.189	0.231
	FR1 n12_Ant 0	15M	QPSK	36	22	Right Side	10mm	Index 4	141500	707.5	24.48	25.40	1.236	-0.07	0.173	0.214
	FR1 n12_Ant 0	15M	QPSK	1	1	Bottom Side	10mm	Index 4	141500	707.5	24.53	25.40	1.222	-0.03	0.332	0.406
	FR1 n12_Ant 0	15M	QPSK	36	22	Bottom Side	10mm	Index 4	141500	707.5	24.48	25.40	1.236	0.18	0.311	0.384
	FR1 n12_Ant 1	15M	QPSK	1	1	Front	10mm	Index 4	141500	707.5	24.81	25.20	1.094	-0.02	0.144	0.158
	FR1 n12_Ant 1	15M	QPSK	36	22	Front	10mm	Index 4	141500	707.5	24.65	25.20	1.135	0.09	0.120	0.136
	FR1 n12_Ant 1	15M	QPSK	1	1	Back	10mm	Index 4	141500	707.5	24.81	25.20	1.094	-0.19	0.243	0.266
	FR1 n12_Ant 1	15M	QPSK	36	22	Back	10mm	Index 4	141500	707.5	24.65	25.20	1.135	0.13	0.196	0.222
	FR1 n12_Ant 1	15M	QPSK	1	1	Left Side	10mm	Index 4	141500	707.5	24.81	25.20	1.094	-0.07	0.092	0.101
	FR1 n12_Ant 1	15M	QPSK	36	22	Left Side	10mm	Index 4	141500	707.5	24.65	25.20	1.135	0.07	0.077	0.087
	FR1 n12_Ant 1	15M	QPSK	1	1	Right Side	10mm	Index 4	141500	707.5	24.81	25.20	1.094	-0.04	0.119	0.130
	FR1 n12_Ant 1	15M	QPSK	36	22	Right Side	10mm	Index 4	141500	707.5	24.65	25.20	1.135	0.16	0.103	0.117
	FR1 n12_Ant 1	15M	QPSK	1	1	Top Side	10mm	Index 4	141500	707.5	24.81	25.20	1.094	-0.07	0.101	0.110
	FR1 n12_Ant 1	15M	QPSK	36	22	Top Side	10mm	Index 4	141500	707.5	24.65	25.20	1.135	0.06	0.094	0.107
	FR1 n25_Ant 2	40M	QPSK	1	1	Front	10mm	Index 4	376500	1882.5	19.90	20.60	1.175	-0.13	0.368	0.432
	FR1 n25_Ant 2	40M	QPSK	108	54	Front	10mm	Index 4	376500	1882.5	19.83	20.60	1.194	0.1	0.341	0.407
	FR1 n25_Ant 2	40M	QPSK	1	1	Back	10mm	Index 4	376500	1882.5	19.90	20.60	1.175	-0.13	0.365	0.429
	FR1 n25_Ant 2	40M	QPSK	108	54	Back	10mm	Index 4	376500	1882.5	19.83	20.60	1.194	-0.16	0.343	0.410
	FR1 n25_Ant 2	40M	QPSK	1	1	Left Side	10mm	Index 4	376500	1882.5	19.90	20.60	1.175	-0.17	0.096	0.113
	FR1 n25_Ant 2	40M	QPSK	108	54	Left Side	10mm	Index 4	376500	1882.5	19.83	20.60	1.194	0.05	0.078	0.093
	FR1 n25_Ant 2	40M	QPSK	1	1	Right Side	10mm	Index 4	376500	1882.5	19.90	20.60	1.175	-0.13	0.449	0.528
	FR1 n25_Ant 2	40M	QPSK	108	54	Right Side	10mm	Index 4	376500	1882.5	19.83	20.60	1.194	0.1	0.372	0.444
	FR1 n25_Ant 2	40M	QPSK	1	1	Bottom Side	10mm	Index 4	376500	1882.5	19.90	20.60	1.175	-0.11	0.141	0.166
	FR1 n25_Ant 2	40M	QPSK	108	54	Bottom Side	10mm	Index 4	376500	1882.5	19.83	20.60	1.194	-0.17	0.125	0.149
	FR1 n25_Ant 0	40M	QPSK	1	1	Front	10mm	Index 4	376500	1882.5	18.21	18.80	1.146	-0.09	0.318	0.364
	FR1 n25_Ant 0	40M	QPSK	108	54	Front	10mm	Index 4	376500	1882.5	18.12	18.80	1.169	0.11	0.301	0.352
	FR1 n25_Ant 0	40M	QPSK	1	1	Back	10mm	Index 4	376500	1882.5	18.21	18.80	1.146	-0.13	0.307	0.352
	FR1 n25_Ant 0	40M	QPSK	108	54	Back	10mm	Index 4	376500	1882.5	18.12	18.80	1.169	-0.05	0.281	0.329
	FR1 n25_Ant 0	40M	QPSK	1	1	Left Side	10mm	Index 4	376500	1882.5	18.21	18.80	1.146	-0.13	0.164	0.188
	FR1 n25_Ant 0	40M	QPSK	108	54	Left Side	10mm	Index 4	376500	1882.5	18.12	18.80	1.169	-0.17	0.132	0.154
	FR1 n25_Ant 0	40M	QPSK	1	1	Right Side	10mm	Index 4	376500	1882.5	18.21	18.80	1.146	0.01	0.001	0.001
	FR1 n25_Ant 0	40M	QPSK	108	54	Right Side	10mm	Index 4	376500	1882.5	18.12	18.80	1.169	0.01	0.001	0.001
59	FR1 n25_Ant 0	40M	QPSK	1	1	Bottom Side	10mm	Index 4	376500	1882.5	18.21	18.80	1.146	-0.1	0.739	0.847
	FR1 n25_Ant 0	40M	QPSK	108	54	Bottom Side	10mm	Index 4	376500	1882.5	18.12	18.80	1.169	-0.09	0.654	0.765
	FR1 n25_Ant 0	40M	QPSK	216	0	Bottom Side	10mm	Index 4	376500	1882.5	18.01	18.80	1.199	0	0.695	0.834



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n26_Ant 0	20M	QPSK	1	1	Front	10mm	Index 4	166300	831.5	24.49	25.40	1.233	-0.16	0.423	0.522
	FR1 n26_Ant 0	20M	QPSK	50	28	Front	10mm	Index 4	166300	831.5	24.48	25.40	1.236	-0.06	0.411	0.508
	FR1 n26_Ant 0	20M	QPSK	1	1	Back	10mm	Index 4	166300	831.5	24.49	25.40	1.233	-0.12	0.488	0.602
	FR1 n26_Ant 0	20M	QPSK	50	28	Back	10mm	Index 4	166300	831.5	24.48	25.40	1.236	0.09	0.473	0.585
	FR1 n26_Ant 0	20M	QPSK	1	1	Left Side	10mm	Index 4	166300	831.5	24.49	25.40	1.233	-0.06	0.395	0.487
	FR1 n26_Ant 0	20M	QPSK	50	28	Left Side	10mm	Index 4	166300	831.5	24.48	25.40	1.236	-0.12	0.382	0.472
	FR1 n26_Ant 0	20M	QPSK	1	1	Right Side	10mm	Index 4	166300	831.5	24.49	25.40	1.233	-0.06	0.148	0.182
	FR1 n26_Ant 0	20M	QPSK	50	28	Right Side	10mm	Index 4	166300	831.5	24.48	25.40	1.236	0.06	0.137	0.169
	FR1 n26_Ant 0	20M	QPSK	1	1	Bottom Side	10mm	Index 4	166300	831.5	24.49	25.40	1.233	-0.03	0.546	0.673
	FR1 n26_Ant 0	20M	QPSK	50	28	Bottom Side	10mm	Index 4	166300	831.5	24.48	25.40	1.236	0.06	0.532	0.658
	FR1 n26_Ant 1	20M	QPSK	1	1	Front	10mm	Index 4	166300	831.5	24.33	25.40	1.279	-0.11	0.193	0.247
	FR1 n26_Ant 1	20M	QPSK	50	28	Front	10mm	Index 4	166300	831.5	24.26	25.40	1.300	0.11	0.188	0.244
60	FR1 n26_Ant 1	20M	QPSK	1	1	Back	10mm	Index 4	166300	831.5	24.33	25.40	1.279	-0.15	0.562	0.719
	FR1 n26_Ant 1	20M	QPSK	50	28	Back	10mm	Index 4	166300	831.5	24.26	25.40	1.300	0.11	0.513	0.667
	FR1 n26_Ant 1	20M	QPSK	1	1	Left Side	10mm	Index 4	166300	831.5	24.33	25.40	1.279	-0.16	0.094	0.120
	FR1 n26_Ant 1	20M	QPSK	50	28	Left Side	10mm	Index 4	166300	831.5	24.26	25.40	1.300	-0.13	0.085	0.111
	FR1 n26_Ant 1	20M	QPSK	1	1	Right Side	10mm	Index 4	166300	831.5	24.33	25.40	1.279	-0.02	0.100	0.128
	FR1 n26_Ant 1	20M	QPSK	50	28	Right Side	10mm	Index 4	166300	831.5	24.26	25.40	1.300	0.11	0.091	0.118
	FR1 n26_Ant 1	20M	QPSK	1	1	Top Side	10mm	Index 4	166300	831.5	24.33	25.40	1.279	-0.12	0.178	0.228
	FR1 n26_Ant 1	20M	QPSK	50	28	Top Side	10mm	Index 4	166300	831.5	24.26	25.40	1.300	0.11	0.172	0.224
	FR1 n30_Ant 2	10M	QPSK	1	1	Front	10mm	Index 4	462000	2310	20.77	21.60	1.211	-0.02	0.385	0.466
	FR1 n30_Ant 2	10M	QPSK	25	14	Front	10mm	Index 4	462000	2310	20.74	21.60	1.219	0	0.341	0.416
	FR1 n30_Ant 2	10M	QPSK	1	1	Back	10mm	Index 4	462000	2310	20.77	21.60	1.211	-0.11	0.271	0.328
	FR1 n30_Ant 2	10M	QPSK	25	14	Back	10mm	Index 4	462000	2310	20.74	21.60	1.219	-0.04	0.255	0.311
	FR1 n30_Ant 2	10M	QPSK	1	1	Left Side	10mm	Index 4	462000	2310	20.77	21.60	1.211	0.01	0.001	0.001
	FR1 n30_Ant 2	10M	QPSK	25	14	Left Side	10mm	Index 4	462000	2310	20.74	21.60	1.219	0.01	0.001	0.001
	FR1 n30_Ant 2	10M	QPSK	1	1	Right Side	10mm	Index 4	462000	2310	20.77	21.60	1.211	-0.04	0.500	0.605
	FR1 n30_Ant 2	10M	QPSK	25	14	Right Side	10mm	Index 4	462000	2310	20.74	21.60	1.219	0.13	0.422	0.514
	FR1 n30_Ant 2	10M	QPSK	1	1	Bottom Side	10mm	Index 4	462000	2310	20.77	21.60	1.211	-0.07	0.135	0.163
	FR1 n30_Ant 2	10M	QPSK	25	14	Bottom Side	10mm	Index 4	462000	2310	20.74	21.60	1.219	-0.16	0.120	0.146
	FR1 n30_Ant 0	10M	QPSK	1	1	Front	10mm	Index 4	462000	2310	18.16	18.20	1.009	-0.11	0.438	0.442
	FR1 n30_Ant 0	10M	QPSK	25	14	Front	10mm	Index 4	462000	2310	18.08	18.20	1.028	0.09	0.416	0.428
	FR1 n30_Ant 0	10M	QPSK	1	1	Back	10mm	Index 4	462000	2310	18.16	18.20	1.009	0.06	0.452	0.456
	FR1 n30_Ant 0	10M	QPSK	25	14	Back	10mm	Index 4	462000	2310	18.08	18.20	1.028	0.15	0.425	0.437
	FR1 n30_Ant 0	10M	QPSK	1	1	Left Side	10mm	Index 4	462000	2310	18.16	18.20	1.009	-0.04	0.064	0.065
	FR1 n30_Ant 0	10M	QPSK	25	14	Left Side	10mm	Index 4	462000	2310	18.08	18.20	1.028	-0.15	0.052	0.053
	FR1 n30_Ant 0	10M	QPSK	1	1	Right Side	10mm	Index 4	462000	2310	18.16	18.20	1.009	-0.09	0.049	0.049
	FR1 n30_Ant 0	10M	QPSK	25	14	Right Side	10mm	Index 4	462000	2310	18.08	18.20	1.028	0.03	0.037	0.038
61	FR1 n30_Ant 0	10M	QPSK	1	1	Bottom Side	10mm	Index 4	462000	2310	18.16	18.20	1.009	-0.06	0.808	0.815
	FR1 n30_Ant 0	10M	QPSK	25	14	Bottom Side	10mm	Index 4	462000	2310	18.08	18.20	1.028	0.01	0.771	0.793
	FR1 n30_Ant 0	10M	QPSK	50	0	Bottom Side	10mm	Index 4	462000	2310	17.98	18.20	1.052	0.18	0.755	0.794



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n66_Ant 2	40M	QPSK	1	1	Front	10mm	Index 4	349000	1745	21.45	22.10	1.161	-0.07	0.313	0.364
	FR1 n66_Ant 2	40M	QPSK	108	54	Front	10mm	Index 4	349000	1745	21.41	22.10	1.172	0.05	0.298	0.349
	FR1 n66_Ant 2	40M	QPSK	1	1	Back	10mm	Index 4	349000	1745	21.45	22.10	1.161	-0.1	0.441	0.512
	FR1 n66_Ant 2	40M	QPSK	108	54	Back	10mm	Index 4	349000	1745	21.41	22.10	1.172	0.03	0.381	0.447
	FR1 n66_Ant 2	40M	QPSK	1	1	Left Side	10mm	Index 4	349000	1745	21.45	22.10	1.161	0.07	0.086	0.100
	FR1 n66_Ant 2	40M	QPSK	108	54	Left Side	10mm	Index 4	349000	1745	21.41	22.10	1.172	0.06	0.071	0.083
	FR1 n66_Ant 2	40M	QPSK	1	1	Right Side	10mm	Index 4	349000	1745	21.45	22.10	1.161	-0.08	0.440	0.511
	FR1 n66_Ant 2	40M	QPSK	108	54	Right Side	10mm	Index 4	349000	1745	21.41	22.10	1.172	0.1	0.428	0.502
	FR1 n66_Ant 2	40M	QPSK	1	1	Bottom Side	10mm	Index 4	349000	1745	21.45	22.10	1.161	-0.12	0.192	0.223
	FR1 n66_Ant 2	40M	QPSK	108	54	Bottom Side	10mm	Index 4	349000	1745	21.41	22.10	1.172	0.06	0.177	0.207
	FR1 n66_Ant 0	40M	QPSK	1	1	Front	10mm	Index 4	349000	1745	18.61	18.90	1.069	-0.18	0.601	0.643
	FR1 n66_Ant 0	40M	QPSK	108	54	Front	10mm	Index 4	349000	1745	18.52	18.90	1.091	0.16	0.577	0.630
	FR1 n66_Ant 0	40M	QPSK	1	1	Back	10mm	Index 4	349000	1745	18.61	18.90	1.069	-0.07	0.344	0.368
	FR1 n66_Ant 0	40M	QPSK	108	54	Back	10mm	Index 4	349000	1745	18.52	18.90	1.091	-0.08	0.322	0.351
	FR1 n66_Ant 0	40M	QPSK	1	1	Left Side	10mm	Index 4	349000	1745	18.61	18.90	1.069	-0.01	0.106	0.113
	FR1 n66_Ant 0	40M	QPSK	108	54	Left Side	10mm	Index 4	349000	1745	18.52	18.90	1.091	-0.03	0.101	0.110
	FR1 n66_Ant 0	40M	QPSK	1	1	Right Side	10mm	Index 4	349000	1745	18.61	18.90	1.069	0.15	0.025	0.027
	FR1 n66_Ant 0	40M	QPSK	108	54	Right Side	10mm	Index 4	349000	1745	18.52	18.90	1.091	0.07	0.024	0.026
62	FR1 n66_Ant 0	40M	QPSK	1	1	Bottom Side	10mm	Index 4	349000	1745	18.61	18.90	1.069	0.18	0.766	0.819
	FR1 n66_Ant 0	40M	QPSK	108	54	Bottom Side	10mm	Index 4	349000	1745	18.52	18.90	1.091	0.07	0.706	0.771
	FR1 n66_Ant 0	40M	QPSK	216	0	Bottom Side	10mm	Index 4	349000	1745	18.49	18.90	1.099	0.02	0.724	0.796
	FR1 n66_Ant 1	40M	QPSK	1	1	Front	10mm	Index 4	349000	1745	21.96	22.30	1.081	-0.02	0.378	0.409
	FR1 n66_Ant 1	40M	QPSK	108	54	Front	10mm	Index 4	349000	1745	21.87	22.30	1.104	0.01	0.351	0.388
	FR1 n66_Ant 1	40M	QPSK	1	1	Back	10mm	Index 4	349000	1745	21.96	22.30	1.081	-0.03	0.385	0.416
	FR1 n66_Ant 1	40M	QPSK	108	54	Back	10mm	Index 4	349000	1745	21.87	22.30	1.104	-0.01	0.366	0.404
	FR1 n66_Ant 1	40M	QPSK	1	1	Left Side	10mm	Index 4	349000	1745	21.96	22.30	1.081	-0.15	0.127	0.137
	FR1 n66_Ant 1	40M	QPSK	108	54	Left Side	10mm	Index 4	349000	1745	21.87	22.30	1.104	0.01	0.114	0.126
	FR1 n66_Ant 1	40M	QPSK	1	1	Right Side	10mm	Index 4	349000	1745	21.96	22.30	1.081	-0.09	0.028	0.030
	FR1 n66_Ant 1	40M	QPSK	108	54	Right Side	10mm	Index 4	349000	1745	21.87	22.30	1.104	0.17	0.022	0.024
	FR1 n66_Ant 1	40M	QPSK	1	1	Top Side	10mm	Index 4	349000	1745	21.96	22.30	1.081	-0.16	0.685	0.741
	FR1 n66_Ant 1	40M	QPSK	108	54	Top Side	10mm	Index 4	349000	1745	21.87	22.30	1.104	0.1	0.643	0.710
	FR1 n66_Ant 5	40M	QPSK	1	1	Front	10mm	Index 4	349000	1745	22.29	22.60	1.074	-0.1	0.313	0.336
	FR1 n66_Ant 5	40M	QPSK	108	54	Front	10mm	Index 4	349000	1745	22.19	22.60	1.099	-0.14	0.303	0.333
	FR1 n66_Ant 5	40M	QPSK	1	1	Back	10mm	Index 4	349000	1745	22.29	22.60	1.074	-0.15	0.424	0.455
	FR1 n66_Ant 5	40M	QPSK	108	54	Back	10mm	Index 4	349000	1745	22.19	22.60	1.099	-0.06	0.406	0.446
	FR1 n66_Ant 5	40M	QPSK	1	1	Left Side	10mm	Index 4	349000	1745	22.29	22.60	1.074	-0.11	0.039	0.042
	FR1 n66_Ant 5	40M	QPSK	108	54	Left Side	10mm	Index 4	349000	1745	22.19	22.60	1.099	0.16	0.038	0.042
	FR1 n66_Ant 5	40M	QPSK	1	1	Right Side	10mm	Index 4	349000	1745	22.29	22.60	1.074	-0.13	0.760	0.816
	FR1 n66_Ant 5	40M	QPSK	108	54	Right Side	10mm	Index 4	349000	1745	22.19	22.60	1.099	0	0.740	0.813
	FR1 n66_Ant 5	40M	QPSK	216	0	Right Side	10mm	Index 4	349000	1745	22.08	22.60	1.127	-0.04	0.711	0.801
	FR1 n66_Ant 5	40M	QPSK	1	1	Top Side	10mm	Index 4	349000	1745	22.29	22.60	1.074	-0.1	0.049	0.053
	FR1 n66_Ant 5	40M	QPSK	108	54	Top Side	10mm	Index 4	349000	1745	22.19	22.60	1.099	-0.15	0.045	0.049



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n70_Ant 2	15M	QPSK	1	1	Front	10mm	Index 4	340500	1702.5	21.53	22.30	1.194	-0.1	0.359	0.429
	FR1 n70_Ant 2	15M	QPSK	36	22	Front	10mm	Index 4	340500	1702.5	21.52	22.30	1.197	0.12	0.342	0.409
	FR1 n70_Ant 2	15M	QPSK	1	1	Back	10mm	Index 4	340500	1702.5	21.53	22.30	1.194	-0.14	0.361	0.431
	FR1 n70_Ant 2	15M	QPSK	36	22	Back	10mm	Index 4	340500	1702.5	21.52	22.30	1.197	0	0.355	0.425
	FR1 n70_Ant 2	15M	QPSK	1	1	Left Side	10mm	Index 4	340500	1702.5	21.53	22.30	1.194	-0.13	0.078	0.093
	FR1 n70_Ant 2	15M	QPSK	36	22	Left Side	10mm	Index 4	340500	1702.5	21.52	22.30	1.197	-0.07	0.062	0.074
	FR1 n70_Ant 2	15M	QPSK	1	1	Right Side	10mm	Index 4	340500	1702.5	21.53	22.30	1.194	-0.07	0.466	0.556
	FR1 n70_Ant 2	15M	QPSK	36	22	Right Side	10mm	Index 4	340500	1702.5	21.52	22.30	1.197	0.11	0.412	0.493
	FR1 n70_Ant 2	15M	QPSK	1	1	Bottom Side	10mm	Index 4	340500	1702.5	21.53	22.30	1.194	-0.18	0.184	0.220
	FR1 n70_Ant 2	15M	QPSK	36	22	Bottom Side	10mm	Index 4	340500	1702.5	21.52	22.30	1.197	-0.17	0.173	0.207
	FR1 n70_Ant 0	15M	QPSK	1	1	Front	10mm	Index 4	340500	1702.5	18.55	18.80	1.059	-0.11	0.470	0.498
	FR1 n70_Ant 0	15M	QPSK	36	22	Front	10mm	Index 4	340500	1702.5	18.52	18.80	1.067	-0.03	0.455	0.485
	FR1 n70_Ant 0	15M	QPSK	1	1	Back	10mm	Index 4	340500	1702.5	18.55	18.80	1.059	-0.16	0.388	0.411
	FR1 n70_Ant 0	15M	QPSK	36	22	Back	10mm	Index 4	340500	1702.5	18.52	18.80	1.067	0.14	0.371	0.396
	FR1 n70_Ant 0	15M	QPSK	1	1	Left Side	10mm	Index 4	340500	1702.5	18.55	18.80	1.059	-0.19	0.111	0.118
	FR1 n70_Ant 0	15M	QPSK	36	22	Left Side	10mm	Index 4	340500	1702.5	18.52	18.80	1.067	-0.01	0.101	0.108
	FR1 n70_Ant 0	15M	QPSK	1	1	Right Side	10mm	Index 4	340500	1702.5	18.55	18.80	1.059	-0.18	0.016	0.017
	FR1 n70_Ant 0	15M	QPSK	36	22	Right Side	10mm	Index 4	340500	1702.5	18.52	18.80	1.067	-0.03	0.012	0.013
63	FR1 n70_Ant 0	15M	QPSK	1	1	Bottom Side	10mm	Index 4	340500	1702.5	18.55	18.80	1.059	-0.18	0.750	0.794
	FR1 n70_Ant 0	15M	QPSK	36	22	Bottom Side	10mm	Index 4	340500	1702.5	18.52	18.80	1.067	0	0.711	0.758
	FR1 n71_Ant 0	20M	QPSK	1	1	Front	10mm	Index 4	136100	680.5	24.58	25.40	1.208	-0.13	0.224	0.271
	FR1 n71_Ant 0	20M	QPSK	50	28	Front	10mm	Index 4	136100	680.5	24.42	25.40	1.253	0.08	0.201	0.252
	FR1 n71_Ant 0	20M	QPSK	1	1	Back	10mm	Index 4	136100	680.5	24.58	25.40	1.208	-0.14	0.260	0.314
	FR1 n71_Ant 0	20M	QPSK	50	28	Back	10mm	Index 4	136100	680.5	24.42	25.40	1.253	-0.01	0.223	0.279
64	FR1 n71_Ant 0	20M	QPSK	1	1	Left Side	10mm	Index 4	136100	680.5	24.58	25.40	1.208	-0.09	0.409	0.494
	FR1 n71_Ant 0	20M	QPSK	50	28	Left Side	10mm	Index 4	136100	680.5	24.42	25.40	1.253	-0.06	0.318	0.398
	FR1 n71_Ant 0	20M	QPSK	1	1	Right Side	10mm	Index 4	136100	680.5	24.58	25.40	1.208	-0.17	0.149	0.180
	FR1 n71_Ant 0	20M	QPSK	50	28	Right Side	10mm	Index 4	136100	680.5	24.42	25.40	1.253	0.1	0.123	0.154
	FR1 n71_Ant 0	20M	QPSK	1	1	Bottom Side	10mm	Index 4	136100	680.5	24.58	25.40	1.208	-0.04	0.244	0.295
	FR1 n71_Ant 0	20M	QPSK	50	28	Bottom Side	10mm	Index 4	136100	680.5	24.42	25.40	1.253	0.15	0.213	0.267
	FR1 n71_Ant 1	20M	QPSK	1	1	Front	10mm	Index 4	136100	680.5	24.50	25.20	1.175	-0.11	0.129	0.152
	FR1 n71_Ant 1	20M	QPSK	50	28	Front	10mm	Index 4	136100	680.5	24.33	25.20	1.222	-0.02	0.108	0.132
	FR1 n71_Ant 1	20M	QPSK	1	1	Back	10mm	Index 4	136100	680.5	24.50	25.20	1.175	-0.17	0.235	0.276
	FR1 n71_Ant 1	20M	QPSK	50	28	Back	10mm	Index 4	136100	680.5	24.33	25.20	1.222	-0.04	0.143	0.175
	FR1 n71_Ant 1	20M	QPSK	1	1	Left Side	10mm	Index 4	136100	680.5	24.50	25.20	1.175	-0.1	0.114	0.134
	FR1 n71_Ant 1	20M	QPSK	50	28	Left Side	10mm	Index 4	136100	680.5	24.33	25.20	1.222	0.02	0.109	0.133
	FR1 n71_Ant 1	20M	QPSK	1	1	Right Side	10mm	Index 4	136100	680.5	24.50	25.20	1.175	-0.12	0.090	0.106
	FR1 n71_Ant 1	20M	QPSK	50	28	Right Side	10mm	Index 4	136100	680.5	24.33	25.20	1.222	-0.08	0.082	0.100
	FR1 n71_Ant 1	20M	QPSK	1	1	Top Side	10mm	Index 4	136100	680.5	24.50	25.20	1.175	-0.19	0.072	0.085
	FR1 n71_Ant 1	20M	QPSK	50	28	Top Side	10mm	Index 4	136100	680.5	24.33	25.20	1.222	0.13	0.065	0.079



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n41_Ant 2	100M	QPSK	1	1	Front	10mm	Index 4	518598	2592.99	20.65	21.20	1.135	-0.16	0.467	0.530
	FR1 n41_Ant 2	100M	QPSK	135	69	Front	10mm	Index 4	518598	2592.99	20.41	21.20	1.199	0.13	0.418	0.501
	FR1 n41_Ant 2	100M	QPSK	1	1	Back	10mm	Index 4	518598	2592.99	20.65	21.20	1.135	-0.1	0.394	0.447
	FR1 n41_Ant 2	100M	QPSK	135	69	Back	10mm	Index 4	518598	2592.99	20.41	21.20	1.199	0.15	0.352	0.422
	FR1 n41_Ant 2	100M	QPSK	1	1	Left Side	10mm	Index 4	518598	2592.99	20.65	21.20	1.135	0.01	0.001	0.001
	FR1 n41_Ant 2	100M	QPSK	135	69	Left Side	10mm	Index 4	518598	2592.99	20.41	21.20	1.199	0.01	0.001	0.001
	FR1 n41_Ant 2	100M	QPSK	1	1	Right Side	10mm	Index 4	518598	2592.99	20.65	21.20	1.135	-0.17	0.515	0.585
	FR1 n41_Ant 2	100M	QPSK	135	69	Right Side	10mm	Index 4	518598	2592.99	20.41	21.20	1.199	0.11	0.452	0.542
	FR1 n41_Ant 2	100M	QPSK	1	1	Bottom Side	10mm	Index 4	518598	2592.99	20.65	21.20	1.135	-0.18	0.174	0.197
	FR1 n41_Ant 2	100M	QPSK	135	69	Bottom Side	10mm	Index 4	518598	2592.99	20.41	21.20	1.199	0.02	0.153	0.184
	FR1 n41_HPUE_Ant 2	100M	QPSK	1	1	Right Side	10mm	Index 4	518598	2592.99	23.71	24.20	1.119	0.12	0.492	0.551
	FR1 n41_Ant 0	100M	QPSK	1	1	Front	10mm	Index 4	518598	2592.99	18.38	18.80	1.102	0.03	0.403	0.444
	FR1 n41_Ant 0	100M	QPSK	135	69	Front	10mm	Index 4	518598	2592.99	18.21	18.80	1.146	-0.15	0.343	0.393
	FR1 n41_Ant 0	100M	QPSK	1	1	Back	10mm	Index 4	518598	2592.99	18.38	18.80	1.102	0.05	0.352	0.388
	FR1 n41_Ant 0	100M	QPSK	135	69	Back	10mm	Index 4	518598	2592.99	18.21	18.80	1.146	-0.09	0.332	0.380
	FR1 n41_Ant 0	100M	QPSK	1	1	Left Side	10mm	Index 4	518598	2592.99	18.38	18.80	1.102	0.18	0.051	0.056
	FR1 n41_Ant 0	100M	QPSK	135	69	Left Side	10mm	Index 4	518598	2592.99	18.21	18.80	1.146	0.03	0.048	0.055
	FR1 n41_Ant 0	100M	QPSK	1	1	Right Side	10mm	Index 4	518598	2592.99	18.38	18.80	1.102	-0.19	0.016	0.018
	FR1 n41_Ant 0	100M	QPSK	135	69	Right Side	10mm	Index 4	518598	2592.99	18.21	18.80	1.146	-0.12	0.011	0.013
65	FR1 n41_Ant 0	100M	QPSK	1	1	Bottom Side	10mm	Index 4	518598	2592.99	18.38	18.80	1.102	-0.02	0.764	0.842
	FR1 n41_Ant 0	100M	QPSK	135	69	Bottom Side	10mm	Index 4	518598	2592.99	18.21	18.80	1.146	0	0.684	0.784
	FR1 n41_Ant 0	100M	QPSK	270	0	Bottom Side	10mm	Index 4	518598	2592.99	18.10	18.80	1.175	0.01	0.666	0.782
	FR1 n41_HPUE_Ant 0	100M	QPSK	1	1	Bottom Side	10mm	Index 4	518598	2592.99	21.61	21.80	1.045	-0.04	0.729	0.762
	FR1 n41_Ant 1	100M	QPSK	1	1	Front	10mm	Index 4	518598	2592.99	20.50	21.10	1.148	-0.16	0.231	0.265
	FR1 n41_Ant 1	100M	QPSK	135	69	Front	10mm	Index 4	518598	2592.99	20.42	21.10	1.169	0.06	0.218	0.255
	FR1 n41_Ant 1	100M	QPSK	1	1	Back	10mm	Index 4	518598	2592.99	20.50	21.10	1.148	-0.19	0.290	0.333
	FR1 n41_Ant 1	100M	QPSK	135	69	Back	10mm	Index 4	518598	2592.99	20.42	21.10	1.169	0.04	0.274	0.320
	FR1 n41_Ant 1	100M	QPSK	1	1	Left Side	10mm	Index 4	518598	2592.99	20.50	21.10	1.148	-0.08	0.276	0.317
	FR1 n41_Ant 1	100M	QPSK	135	69	Left Side	10mm	Index 4	518598	2592.99	20.42	21.10	1.169	0.01	0.268	0.313
	FR1 n41_Ant 1	100M	QPSK	1	1	Right Side	10mm	Index 4	518598	2592.99	20.50	21.10	1.148	-0.01	0.001	0.001
	FR1 n41_Ant 1	100M	QPSK	135	69	Right Side	10mm	Index 4	518598	2592.99	20.42	21.10	1.169	-0.08	0.001	0.001
	FR1 n41_Ant 1	100M	QPSK	1	1	Top Side	10mm	Index 4	518598	2592.99	20.50	21.10	1.148	0	0.476	0.547
	FR1 n41_Ant 1	100M	QPSK	135	69	Top Side	10mm	Index 4	518598	2592.99	20.42	21.10	1.169	0.14	0.406	0.475
	FR1 n41_HPUE_Ant 1	100M	QPSK	1	1	Top Side	10mm	Index 4	518598	2592.99	23.62	24.10	1.117	-0.1	0.452	0.505
	FR1 n41_Ant 5	100M	QPSK	1	1	Front	10mm	Index 4	518598	2592.99	20.05	20.40	1.084	-0.04	0.181	0.196
	FR1 n41_Ant 5	100M	QPSK	135	69	Front	10mm	Index 4	518598	2592.99	19.96	20.40	1.107	0.08	0.168	0.186
	FR1 n41_Ant 5	100M	QPSK	1	1	Back	10mm	Index 4	518598	2592.99	20.05	20.40	1.084	-0.1	0.262	0.284
	FR1 n41_Ant 5	100M	QPSK	135	69	Back	10mm	Index 4	518598	2592.99	19.96	20.40	1.107	0.1	0.251	0.278
	FR1 n41_Ant 5	100M	QPSK	1	1	Left Side	10mm	Index 4	518598	2592.99	20.05	20.40	1.084	-0.03	0.004	0.004
	FR1 n41_Ant 5	100M	QPSK	135	69	Left Side	10mm	Index 4	518598	2592.99	19.96	20.40	1.107	0.03	0.002	0.002
	FR1 n41_Ant 5	100M	QPSK	1	1	Right Side	10mm	Index 4	518598	2592.99	20.05	20.40	1.084	-0.07	0.408	0.442
	FR1 n41_Ant 5	100M	QPSK	135	69	Right Side	10mm	Index 4	518598	2592.99	19.96	20.40	1.107	-0.04	0.388	0.429
	FR1 n41_Ant 5	100M	QPSK	1	1	Top Side	10mm	Index 4	518598	2592.99	20.05	20.40	1.084	-0.07	0.018	0.020
	FR1 n41_Ant 5	100M	QPSK	135	69	Top Side	10mm	Index 4	518598	2592.99	19.96	20.40	1.107	0	0.010	0.011
	FR1 n41_HPUE_Ant 5	100M	QPSK	1	1	Right Side	10mm	Index 4	518598	2592.99	22.99	23.40	1.099	0.19	0.385	0.423



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n48_Ant 6	40M	BPSK	1	1	Front	10mm	Index 4	641666	3624.99	18.30	19.10	1.202	0.13	0.156	0.188
	FR1 n48_Ant 6	40M	BPSK	50	25	Front	10mm	Index 4	641666	3624.99	18.29	19.10	1.205	0.08	0.154	0.186
	FR1 n48_Ant 6	40M	BPSK	1	1	Back	10mm	Index 4	641666	3624.99	18.30	19.10	1.202	0.03	0.125	0.150
	FR1 n48_Ant 6	40M	BPSK	50	25	Back	10mm	Index 4	641666	3624.99	18.29	19.10	1.205	0.12	0.119	0.143
	FR1 n48_Ant 6	40M	BPSK	1	1	Left Side	10mm	Index 4	641666	3624.99	18.30	19.10	1.202	-0.04	0.285	0.343
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Side	10mm	Index 4	641666	3624.99	18.29	19.10	1.205	-0.01	0.276	0.333
	FR1 n48_Ant 6	40M	QPSK	1	1	Right Side	10mm	Index 4	641666	3624.99	18.30	19.10	1.202	0	0.001	0.001
	FR1 n48_Ant 6	40M	QPSK	50	25	Right Side	10mm	Index 4	641666	3624.99	18.29	19.10	1.205	-0.09	0.001	0.001
	FR1 n48_Ant 6	40M	BPSK	1	1	Bottom Side	10mm	Index 4	641666	3624.99	18.30	19.10	1.202	-0.09	0.080	0.096
	FR1 n48_Ant 6	40M	BPSK	50	25	Bottom Side	10mm	Index 4	641666	3624.99	18.29	19.10	1.205	0.05	0.070	0.084
	FR1 n48_Ant 6	20M	BPSK	1	49	Left Side	10mm	Index 4	641666	3624.99	18.28	19.10	1.208	-0.11	0.280	0.338
	FR1 n48_Ant 6	20M	BPSK	25	12	Left Side	10mm	Index 4	641666	3624.99	18.23	19.10	1.222	0.03	0.269	0.329
	FR1 n48_Ant 7	40M	BPSK	1	0	Front	10mm	Index 4	641666	3624.99	19.37	20.00	1.156	-0.12	0.174	0.201
	FR1 n48_Ant 7	40M	BPSK	50	25	Front	10mm	Index 4	641666	3624.99	20.12	20.30	1.042	0.01	0.212	0.221
	FR1 n48_Ant 7	40M	BPSK	1	0	Back	10mm	Index 4	641666	3624.99	19.37	20.00	1.156	-0.13	0.265	0.306
	FR1 n48_Ant 7	40M	BPSK	50	25	Back	0mm	Index 4	641666	3624.99	20.12	20.30	1.042	-0.01	0.330	0.344
	FR1 n48_Ant 7	40M	BPSK	1	0	Left Side	10mm	Index 4	641666	3624.99	19.37	20.00	1.156	-0.05	0.010	0.012
	FR1 n48_Ant 7	40M	BPSK	50	25	Left Side	10mm	Index 4	641666	3624.99	20.12	20.30	1.042	-0.06	0.016	0.017
	FR1 n48_Ant 7	40M	BPSK	1	0	Right Side	10mm	Index 4	641666	3624.99	19.37	20.00	1.156	-0.07	0.334	0.386
66	FR1 n48_Ant 7	40M	BPSK	50	25	Right Side	10mm	Index 4	641666	3624.99	20.12	20.30	1.042	0	0.390	0.407
	FR1 n48_Ant 7	40M	BPSK	1	0	Bottom Side	10mm	Index 4	641666	3624.99	19.37	20.00	1.156	-0.02	0.129	0.149
	FR1 n48_Ant 7	40M	BPSK	50	25	Bottom Side	10mm	Index 4	641666	3624.99	20.12	20.30	1.042	-0.07	0.132	0.138
	FR1 n48_Ant 7	20M	BPSK	1	49	Right Side	10mm	Index 4	641666	3624.99	20.14	20.30	1.038	-0.08	0.382	0.396
	FR1 n48_Ant 7	20M	BPSK	25	12	Right Side	10mm	Index 4	641666	3624.99	20.20	20.30	1.023	0.06	0.373	0.382
	FR1 n48_Ant 1	40M	BPSK	1	104	Front	10mm	Index 4	641666	3624.99	20.16	20.60	1.107	-0.12	0.209	0.231
	FR1 n48_Ant 1	40M	BPSK	50	25	Front	10mm	Index 4	641666	3624.99	20.13	20.60	1.114	-0.07	0.200	0.223
	FR1 n48_Ant 1	40M	BPSK	1	104	Back	10mm	Index 4	641666	3624.99	20.16	20.60	1.107	0.16	0.197	0.218
	FR1 n48_Ant 1	40M	BPSK	50	25	Back	10mm	Index 4	641666	3624.99	20.13	20.60	1.114	-0.02	0.191	0.213
	FR1 n48_Ant 1	40M	BPSK	1	104	Left Side	10mm	Index 4	641666	3624.99	20.16	20.60	1.107	-0.13	0.287	0.318
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Side	10mm	Index 4	641666	3624.99	20.13	20.60	1.114	-0.01	0.278	0.310
	FR1 n48_Ant 1	40M	BPSK	1	104	Right Side	10mm	Index 4	641666	3624.99	20.16	20.60	1.107	0.13	0.133	0.147
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Side	10mm	Index 4	641666	3624.99	20.13	20.60	1.114	-0.12	0.115	0.128
	FR1 n48_Ant 1	40M	BPSK	1	104	Top Side	10mm	Index 4	641666	3624.99	20.16	20.60	1.107	-0.02	0.330	0.365
	FR1 n48_Ant 1	40M	BPSK	50	25	Top Side	10mm	Index 4	641666	3624.99	20.13	20.60	1.114	-0.07	0.313	0.349
	FR1 n48_Ant 1	20M	BPSK	1	1	Top Side	10mm	Index 4	641666	3624.99	20.23	20.60	1.089	0.02	0.299	0.326
	FR1 n48_Ant 1	20M	BPSK	25	12	Top Side	10mm	Index 4	641666	3624.99	20.04	20.60	1.138	0.07	0.284	0.323
	FR1 n48_Ant 5	40M	BPSK	1	1	Front	10mm	Index 4	641666	3624.99	21.23	21.80	1.140	-0.05	0.134	0.153
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	Index 4	641666	3624.99	21.01	21.80	1.199	0.03	0.120	0.144
	FR1 n48_Ant 5	40M	BPSK	1	1	Back	10mm	Index 4	641666	3624.99	21.23	21.80	1.140	-0.01	0.135	0.154
	FR1 n48_Ant 5	40M	BPSK	50	25	Back	10mm	Index 4	641666	3624.99	21.01	21.80	1.199	-0.17	0.123	0.148
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Side	10mm	Index 4	641666	3624.99	21.23	21.80	1.140	0	0.001	0.001
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Side	10mm	Index 4	641666	3624.99	21.01	21.80	1.199	-0.12	0.001	0.001
	FR1 n48_Ant 5	40M	BPSK	1	1	Right Side	10mm	Index 4	641666	3624.99	21.23	21.80	1.140	-0.07	0.318	0.363
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Side	10mm	Index 4	641666	3624.99	21.01	21.80	1.199	-0.17	0.294	0.353
	FR1 n48_Ant 5	40M	BPSK	1	1	Top Side	10mm	Index 4	641666	3624.99	21.23	21.80	1.140	-0.02	0.054	0.062
	FR1 n48_Ant 5	40M	BPSK	50	25	Top Side	10mm	Index 4	641666	3624.99	21.01	21.80	1.199	0.03	0.038	0.046
	FR1 n48_Ant 5	20M	BPSK	1	1	Right Side	10mm	Index 4	641666	3624.99	21.20	21.80	1.148	-0.05	0.293	0.336
	FR1 n48_Ant 5	20M	BPSK	25	12	Right Side	10mm	Index 4	641666	3624.99	20.96	21.80	1.213	-0.01	0.283	0.343



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77_Ant 6	100M	QPSK	1	1	Front	10mm	Index 4	656000	3840	21.55	21.70	1.035	0	0.339	0.351
	FR1 n77_Ant 6	100M	QPSK	135	69	Front	10mm	Index 4	656000	3840	21.48	21.70	1.052	-0.1	0.296	0.311
	FR1 n77_Ant 6	100M	QPSK	1	1	Back	10mm	Index 4	656000	3840	21.55	21.70	1.035	-0.01	0.328	0.340
	FR1 n77_Ant 6	100M	QPSK	135	69	Back	10mm	Index 4	656000	3840	21.48	21.70	1.052	0.18	0.271	0.285
	FR1 n77_Ant 6	100M	QPSK	1	1	Left Side	10mm	Index 4	656000	3840	21.55	21.70	1.035	0.01	0.491	0.508
	FR1 n77_Ant 6	100M	QPSK	135	69	Left Side	10mm	Index 4	656000	3840	21.48	21.70	1.052	-0.12	0.384	0.404
	FR1 n77_Ant 6	100M	QPSK	1	1	Right Side	10mm	Index 4	656000	3840	21.55	21.70	1.035	-0.19	0.026	0.027
	FR1 n77_Ant 6	100M	QPSK	135	69	Right Side	10mm	Index 4	656000	3840	21.48	21.70	1.052	0.04	0.017	0.018
	FR1 n77_Ant 6	100M	QPSK	1	1	Bottom Side	10mm	Index 4	656000	3840	21.55	21.70	1.035	0.03	0.229	0.237
	FR1 n77_Ant 6	100M	QPSK	135	69	Bottom Side	10mm	Index 4	656000	3840	21.48	21.70	1.052	0.02	0.196	0.206
	FR1 n77_HPUE_Ant 6	100M	QPSK	1	1	Left Side	10mm	Index 4	656000	3840	24.13	24.70	1.140	-0.04	0.412	0.470
	FR1 n77_Ant 6	100M	QPSK	1	1	Front	10mm	Index 4	633332	3499.98	21.62	21.70	1.019	-0.02	0.361	0.368
	FR1 n77_Ant 6	100M	QPSK	135	69	Front	10mm	Index 4	633332	3499.98	21.38	21.70	1.076	-0.17	0.313	0.337
	FR1 n77_Ant 6	100M	QPSK	1	1	Back	10mm	Index 4	633332	3499.98	21.62	21.70	1.019	-0.05	0.239	0.243
	FR1 n77_Ant 6	100M	QPSK	135	69	Back	10mm	Index 4	633332	3499.98	21.38	21.70	1.076	0.07	0.217	0.234
	FR1 n77_Ant 6	100M	QPSK	1	1	Left Side	10mm	Index 4	633332	3499.98	21.62	21.70	1.019	-0.01	0.465	0.474
	FR1 n77_Ant 6	100M	QPSK	135	69	Left Side	10mm	Index 4	633332	3499.98	21.38	21.70	1.076	-0.01	0.347	0.374
	FR1 n77_Ant 6	100M	QPSK	1	1	Right Side	10mm	Index 4	633332	3499.98	21.62	21.70	1.019	0.03	0.040	0.041
	FR1 n77_Ant 6	100M	QPSK	135	69	Right Side	10mm	Index 4	633332	3499.98	21.38	21.70	1.076	-0.08	0.035	0.038
	FR1 n77_Ant 6	100M	QPSK	1	1	Bottom Side	10mm	Index 4	633332	3499.98	21.62	21.70	1.019	-0.07	0.388	0.395
	FR1 n77_Ant 6	100M	QPSK	135	69	Bottom Side	10mm	Index 4	633332	3499.98	21.38	21.70	1.076	0.12	0.321	0.346
	FR1 n77_HPUE_Ant 6	100M	QPSK	1	1	Left Side	10mm	Index 4	633332	3499.98	24.53	24.70	1.040	0.07	0.364	0.379
	FR1 n77_Ant 7	100M	QPSK	1	1	Front	10mm	Index 4	656000	3840	22.68	24.00	1.355	-0.04	0.340	0.461
	FR1 n77_Ant 7	100M	QPSK	135	69	Front	10mm	Index 4	656000	3840	22.32	24.00	1.472	-0.09	0.311	0.458
	FR1 n77_Ant 7	100M	QPSK	1	1	Back	10mm	Index 4	656000	3840	22.68	24.00	1.355	-0.09	0.462	0.626
	FR1 n77_Ant 7	100M	QPSK	135	69	Back	10mm	Index 4	656000	3840	22.32	24.00	1.472	-0.19	0.420	0.618
	FR1 n77_Ant 7	100M	QPSK	1	1	Left Side	10mm	Index 4	656000	3840	22.68	24.00	1.355	0	0.001	0.001
	FR1 n77_Ant 7	100M	QPSK	135	69	Left Side	10mm	Index 4	656000	3840	22.32	24.00	1.472	0	0.001	0.001
	FR1 n77_Ant 7	100M	QPSK	1	1	Right Side	10mm	Index 4	656000	3840	22.68	24.00	1.355	0.03	0.394	0.534
	FR1 n77_Ant 7	100M	QPSK	135	69	Right Side	10mm	Index 4	656000	3840	22.32	24.00	1.472	0.1	0.361	0.532
	FR1 n77_Ant 7	100M	QPSK	1	1	Bottom Side	10mm	Index 4	656000	3840	22.68	24.00	1.355	0	0.077	0.104
	FR1 n77_Ant 7	100M	QPSK	135	69	Bottom Side	10mm	Index 4	656000	3840	22.32	24.00	1.472	-0.01	0.070	0.103
	FR1 n77_HPUE_Ant 7	100M	QPSK	1	1	Back	10mm	Index 4	656000	3840	25.30	26.40	1.288	-0.07	0.449	0.578
	FR1 n77_Ant 7	100M	QPSK	1	1	Front	10mm	Index 4	633332	3499.98	23.05	24.00	1.245	0.01	0.236	0.294
	FR1 n77_Ant 7	100M	QPSK	135	69	Front	10mm	Index 4	633332	3499.98	22.58	24.00	1.387	0	0.203	0.282
	FR1 n77_Ant 7	100M	QPSK	1	1	Back	10mm	Index 4	633332	3499.98	23.05	24.00	1.245	-0.09	0.264	0.329
	FR1 n77_Ant 7	100M	QPSK	135	69	Back	10mm	Index 4	633332	3499.98	22.58	24.00	1.387	0.01	0.227	0.315
	FR1 n77_Ant 7	100M	QPSK	1	1	Left Side	10mm	Index 4	633332	3499.98	23.05	24.00	1.245	-0.11	0.014	0.017
	FR1 n77_Ant 7	100M	QPSK	135	69	Left Side	10mm	Index 4	633332	3499.98	22.58	24.00	1.387	-0.1	0.011	0.015
67	FR1 n77_Ant 7	100M	QPSK	1	1	Right Side	10mm	Index 4	633332	3499.98	23.05	24.00	1.245	-0.05	0.655	0.815
	FR1 n77_Ant 7	100M	QPSK	135	69	Right Side	10mm	Index 4	633332	3499.98	22.58	24.00	1.387	-0.05	0.576	0.799
	FR1 n77_Ant 7	100M	QPSK	270	0	Right Side	10mm	Index 4	633332	3499.98	21.53	22.50	1.250	-0.05	0.471	0.589
	FR1 n77_Ant 7	100M	QPSK	1	1	Bottom Side	10mm	Index 4	633332	3499.98	23.05	24.00	1.245	-0.09	0.089	0.111
	FR1 n77_Ant 7	100M	QPSK	135	69	Bottom Side	10mm	Index 4	633332	3499.98	22.58	24.00	1.387	-0.02	0.078	0.108
	FR1 n77_HPUE_Ant 7	100M	QPSK	1	1	Right Side	10mm	Index 4	633332	3499.98	25.72	26.40	1.169	-0.07	0.614	0.718
	FR1 n77_Ant 1	100M	QPSK	1	1	Front	10mm	Index 4	656000	3840	17.74	18.00	1.062	-0.04	0.126	0.134
	FR1 n77_Ant 1	100M	QPSK	135	69	Front	10mm	Index 4	656000	3840	17.62	18.00	1.091	-0.11	0.113	0.123
	FR1 n77_Ant 1	100M	QPSK	1	1	Back	10mm	Index 4	656000	3840	17.74	18.00	1.062	-0.08	0.199	0.211
	FR1 n77_Ant 1	100M	QPSK	135	69	Back	10mm	Index 4	656000	3840	17.62	18.00	1.091	-0.11	0.179	0.195
	FR1 n77_Ant 1	100M	QPSK	1	1	Left Side	10mm	Index 4	656000	3840	17.74	18.00	1.062	-0.01	0.260	0.276
	FR1 n77_Ant 1	100M	QPSK	135	69	Left Side	10mm	Index 4	656000	3840	17.62	18.00	1.091	-0.02	0.237	0.259
	FR1 n77_Ant 1	100M	QPSK	1	1	Right Side	10mm	Index 4	656000	3840	17.74	18.00	1.062	-0.15	0.030	0.032
	FR1 n77_Ant 1	100M	QPSK	135	69	Right Side	10mm	Index 4	656000	3840	17.62	18.00	1.091	0.01	0.017	0.019



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FR1 n77_Ant 1	100M	QPSK	1	1	Top Side	10mm	Index 4	656000	3840	17.74	18.00	1.062	0.01	0.154	0.164
FR1 n77_Ant 1	100M	QPSK	135	69	Top Side	10mm	Index 4	656000	3840	17.62	18.00	1.091	-0.01	0.131	0.143
FR1 n77_HPUE_Ant 1	100M	QPSK	1	1	Left Side	10mm	Index 4	656000	3840	20.65	21.00	1.084	0.15	0.249	0.270
FR1 n77_Ant 1	100M	QPSK	1	1	Front	10mm	Index 4	633332	3499.98	17.55	18.00	1.109	0.01	0.104	0.115
FR1 n77_Ant 1	100M	QPSK	135	69	Front	10mm	Index 4	633332	3499.98	17.42	18.00	1.143	-0.02	0.087	0.099
FR1 n77_Ant 1	100M	QPSK	1	1	Back	10mm	Index 4	633332	3499.98	17.55	18.00	1.109	-0.01	0.111	0.123
FR1 n77_Ant 1	100M	QPSK	135	69	Back	10mm	Index 4	633332	3499.98	17.42	18.00	1.143	0.15	0.107	0.122
FR1 n77_Ant 1	100M	QPSK	1	1	Left Side	10mm	Index 4	633332	3499.98	17.55	18.00	1.109	0.02	0.201	0.223
FR1 n77_Ant 1	100M	QPSK	135	69	Left Side	10mm	Index 4	633332	3499.98	17.42	18.00	1.143	-0.03	0.168	0.192
FR1 n77_Ant 1	100M	QPSK	1	1	Right Side	10mm	Index 4	633332	3499.98	17.55	18.00	1.109	0.05	0.001	0.001
FR1 n77_Ant 1	100M	QPSK	135	69	Right Side	10mm	Index 4	633332	3499.98	17.42	18.00	1.143	0	0.001	0.001
FR1 n77_Ant 1	100M	QPSK	1	1	Top Side	10mm	Index 4	633332	3499.98	17.55	18.00	1.109	-0.05	0.120	0.133
FR1 n77_Ant 1	100M	QPSK	135	69	Top Side	10mm	Index 4	633332	3499.98	17.42	18.00	1.143	0	0.114	0.130
FR1 n77_HPUE_Ant 1	100M	QPSK	1	1	Left Side	10mm	Index 4	633332	3499.98	20.42	21.00	1.143	-0.19	0.186	0.213
FR1 n77_Ant 5	100M	QPSK	1	1	Front	10mm	Index 4	656000	3840	20.17	20.80	1.156	0.19	0.099	0.114
FR1 n77_Ant 5	100M	QPSK	135	69	Front	10mm	Index 4	656000	3840	20.10	20.80	1.175	0.17	0.079	0.093
FR1 n77_Ant 5	100M	QPSK	1	1	Back	10mm	Index 4	656000	3840	20.17	20.80	1.156	0.06	0.097	0.112
FR1 n77_Ant 5	100M	QPSK	135	69	Back	10mm	Index 4	656000	3840	20.10	20.80	1.175	-0.06	0.080	0.094
FR1 n77_Ant 5	100M	QPSK	1	1	Left Side	10mm	Index 4	656000	3840	20.17	20.80	1.156	0	0.001	0.001
FR1 n77_Ant 5	100M	QPSK	135	69	Left Side	10mm	Index 4	656000	3840	20.10	20.80	1.175	0	0.001	0.001
FR1 n77_Ant 5	100M	QPSK	1	1	Right Side	10mm	Index 4	656000	3840	20.17	20.80	1.156	0.05	0.213	0.246
FR1 n77_Ant 5	100M	QPSK	135	69	Right Side	10mm	Index 4	656000	3840	20.10	20.80	1.175	-0.02	0.163	0.192
FR1 n77_Ant 5	100M	QPSK	1	1	Top Side	10mm	Index 4	656000	3840	20.17	20.80	1.156	-0.18	0.021	0.024
FR1 n77_Ant 5	100M	QPSK	135	69	Top Side	10mm	Index 4	656000	3840	20.10	20.80	1.175	0.15	0.010	0.012
FR1 n77_HPUE_Ant 5	100M	QPSK	1	1	Right Side	10mm	Index 4	656000	3840	22.95	23.80	1.216	-0.12	0.183	0.223
FR1 n77_Ant 5	100M	QPSK	1	1	Front	10mm	Index 4	633332	3499.98	20.26	20.80	1.132	-0.01	0.107	0.121
FR1 n77_Ant 5	100M	QPSK	135	69	Front	10mm	Index 4	633332	3499.98	20.12	20.80	1.169	0.05	0.076	0.089
FR1 n77_Ant 5	100M	QPSK	1	1	Back	10mm	Index 4	633332	3499.98	20.26	20.80	1.132	-0.04	0.098	0.111
FR1 n77_Ant 5	100M	QPSK	135	69	Back	10mm	Index 4	633332	3499.98	20.12	20.80	1.169	-0.12	0.085	0.099
FR1 n77_Ant 5	100M	QPSK	1	1	Left Side	10mm	Index 4	633332	3499.98	20.26	20.80	1.132	-0.15	0.001	0.001
FR1 n77_Ant 5	100M	QPSK	135	69	Left Side	10mm	Index 4	633332	3499.98	20.12	20.80	1.169	0.01	0.001	0.001
FR1 n77_Ant 5	100M	QPSK	1	1	Right Side	10mm	Index 4	633332	3499.98	20.26	20.80	1.132	-0.03	0.210	0.238
FR1 n77_Ant 5	100M	QPSK	135	69	Right Side	10mm	Index 4	633332	3499.98	20.12	20.80	1.169	-0.02	0.196	0.229
FR1 n77_Ant 5	100M	QPSK	1	1	Top Side	10mm	Index 4	633332	3499.98	20.26	20.80	1.132	-0.19	0.021	0.024
FR1 n77_Ant 5	100M	QPSK	135	69	Top Side	10mm	Index 4	633332	3499.98	20.12	20.80	1.169	0.17	0.014	0.016
FR1 n77_HPUE_Ant 5	100M	QPSK	1	1	Right Side	10mm	Index 4	633332	3499.98	23.24	23.80	1.138	0.01	0.194	0.221



<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	Index 7	11	2462	19.90	20.00	1.023	98.90	1.011	0.02	0.298	0.308
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 7	11	2462	19.90	20.00	1.023	98.90	1.011	-0.11	0.303	0.313
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 4	Index 7	11	2462	19.90	20.00	1.023	98.90	1.011	0	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4	Index 7	11	2462	19.90	20.00	1.023	98.90	1.011	0	0.352	0.364
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	Index 7	11	2462	19.90	20.00	1.023	98.90	1.011	-0.09	0.486	0.503
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	Index 7	1	2412	19.80	20.00	1.047	98.90	1.011	-0.04	0.490	0.519
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	Index 7	6	2437	19.70	20.00	1.072	98.90	1.011	0.01	0.496	0.537
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	Index 8	11	2462	17.50	17.50	1.000	98.90	1.011	-0.01	0.174	0.176
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	Index 8	11	2462	17.50	17.50	1.000	98.90	1.011	-0.05	0.212	0.214
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 4	Index 8	11	2462	17.50	17.50	1.000	98.90	1.011	0	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4	Index 8	11	2462	17.50	17.50	1.000	98.90	1.011	-0.02	0.216	0.218
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	Index 8	11	2462	17.50	17.50	1.000	98.90	1.011	-0.15	0.300	0.303
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	Index 8	1	2412	17.30	17.50	1.047	98.90	1.011	-0.15	0.266	0.282
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	Index 8	6	2437	17.20	17.50	1.072	98.90	1.011	-0.06	0.295	0.320
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	Index 7	1	2412	22.40	22.50	1.023	98.90	1.011	-0.02	0.350	0.362
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	Index 7	1	2412	22.40	22.50	1.023	98.90	1.011	-0.02	0.443	0.458
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	Index 7	1	2412	22.40	22.50	1.023	98.90	1.011	-0.02	0.488	0.505
68	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	Index 7	6	2437	22.30	22.50	1.047	98.90	1.011	-0.04	0.599	0.634
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	Index 7	11	2462	22.30	22.50	1.047	98.90	1.011	-0.02	0.568	0.601
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 3	Index 7	1	2412	22.40	22.50	1.023	98.90	1.011	0	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 3	Index 7	1	2412	22.40	22.50	1.023	98.90	1.011	0	0.047	0.049
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	Index 8	11	2462	19.20	19.50	1.072	98.90	1.011	-0.03	0.128	0.139
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	Index 8	11	2462	19.20	19.50	1.072	98.90	1.011	-0.02	0.164	0.178
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	Index 8	11	2462	19.20	19.50	1.072	98.90	1.011	0	0.218	0.236
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	Index 8	1	2412	19.10	19.50	1.096	98.90	1.011	-0.01	0.247	0.274
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	Index 8	6	2437	18.90	19.50	1.148	98.90	1.011	-0.01	0.205	0.238
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 3	Index 8	11	2462	19.20	19.50	1.072	98.90	1.011	0	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 3	Index 8	11	2462	19.20	19.50	1.072	98.90	1.011	-0.11	0.017	0.018
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3(4)	Index 7	6	2437	18.90	19.00	1.023	93.46	1.070	-0.03	0.357	0.391
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3(3)	Index 7	6	2437	18.40	19.00	1.148	93.46	1.070	-0.02	0.141	0.173
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 7	6	2437	18.90	19.00	1.023	93.46	1.070	0	0.398	0.436
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 7	6	2437	18.40	19.00	1.148	93.46	1.070	-0.01	0.142	0.174
	WLAN2.4GHz	802.11g 6Mbps	Left Side	10mm	Ant 4+3(3)	Index 7	6	2437	18.40	19.00	1.148	93.46	1.070	0.02	0.223	0.274
	WLAN2.4GHz	802.11g 6Mbps	Right Side	10mm	Ant 4+3(4)	Index 7	6	2437	18.90	19.00	1.023	93.46	1.070	-0.02	0.394	0.431
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 4+3(4)	Index 7	6	2437	18.90	19.00	1.023	93.46	1.070	-0.02	0.552	0.604
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 4+3(4)	Index 7	1	2412	18.80	19.00	1.047	93.46	1.070	0.01	0.359	0.402
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 4+3(4)	Index 7	11	2462	18.70	19.00	1.072	93.46	1.070	-0.03	0.484	0.555
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3(4)	Index 8	6	2437	15.00	15.00	1.000	93.46	1.070	0.01	0.098	0.105
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3(3)	Index 8	6	2437	14.60	15.00	1.096	93.46	1.070	-0.03	0.049	0.057
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(4)	Index 8	6	2437	15.00	15.00	1.000	93.46	1.070	-0.02	0.148	0.158
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3(3)	Index 8	6	2437	14.60	15.00	1.096	93.46	1.070	-0.01	0.053	0.062
	WLAN2.4GHz	802.11g 6Mbps	Left Side	10mm	Ant 4+3(3)	Index 8	6	2437	14.60	15.00	1.096	93.46	1.070	-0.06	0.081	0.095
	WLAN2.4GHz	802.11g 6Mbps	Right Side	10mm	Ant 4+3(4)	Index 8	6	2437	15.00	15.00	1.000	93.46	1.070	0	0.135	0.144
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 4+3(4)	Index 8	6	2437	15.00	15.00	1.000	93.46	1.070	0.03	0.198	0.212
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 4+3(4)	Index 8	1	2412	14.30	15.00	1.175	93.46	1.070	-0.02	0.145	0.182
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 4+3(4)	Index 8	11	2462	14.60	15.00	1.096	93.46	1.070	-0.03	0.160	0.188



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+3(4)	Index 7/8/9	46	5230	18.80	19.00	1.047	96.15	1.040	0.09	0.095	0.103
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+3(3)	Index 7/8/9	46	5230	18.60	19.00	1.096	96.15	1.040	0.06	0.159	0.181
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(4)	Index 7/8/9	46	5230	18.80	19.00	1.047	96.15	1.040	-0.03	0.244	0.266
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(3)	Index 7/8/9	46	5230	18.60	19.00	1.096	96.15	1.040	0.02	0.104	0.119
69	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 4+3(3)	Index 7/8/9	46	5230	18.60	19.00	1.096	96.15	1.040	-0.05	0.313	0.357
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 4+3(3)	Index 7/8/9	38	5190	15.10	16.00	1.230	96.15	1.040	0.04	0.240	0.307
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 4+3(4)	Index 7/8/9	46	5230	18.80	19.00	1.047	96.15	1.040	-0.03	0.109	0.119
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4+3(4)	Index 7/8/9	46	5230	18.80	19.00	1.047	96.15	1.040	0.04	0.214	0.233
70	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(4)	Index 7	155	5775	19.20	20.00	1.202	85.54	1.169	-0.12	0.090	0.126
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(3)	Index 7	155	5775	19.80	20.00	1.047	85.54	1.169	-0.13	0.153	0.187
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	Index 7	155	5775	19.20	20.00	1.202	85.54	1.169	-0.11	0.431	0.606
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	Index 7	155	5775	19.80	20.00	1.047	85.54	1.169	-0.14	0.171	0.209
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 4+3(3)	Index 7	155	5775	19.80	20.00	1.047	85.54	1.169	0.01	0.245	0.300
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 4+3(4)	Index 7	155	5775	19.20	20.00	1.202	85.54	1.169	-0.14	0.188	0.264
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+3(4)	Index 7	155	5775	19.20	20.00	1.202	85.54	1.169	-0.1	0.196	0.275
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(4)	Index 8/9	155	5775	18.40	19.00	1.148	85.54	1.169	-0.15	0.066	0.089
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3(3)	Index 8/9	155	5775	18.80	19.00	1.047	85.54	1.169	-0.15	0.109	0.133
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	Index 8/9	155	5775	18.40	19.00	1.148	85.54	1.169	-0.05	0.291	0.391
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	Index 8/9	155	5775	18.80	19.00	1.047	85.54	1.169	-0.15	0.116	0.142
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 4+3(3)	Index 8/9	155	5775	18.80	19.00	1.047	85.54	1.169	-0.16	0.206	0.252
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 4+3(4)	Index 8/9	155	5775	18.40	19.00	1.148	85.54	1.169	-0.15	0.160	0.215
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+3(4)	Index 8/9	155	5775	18.40	19.00	1.148	85.54	1.169	-0.05	0.171	0.230



<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	Ant 4	Index 3/4	78	2480	18.40	18.50	1.023	76.86	1.084	-0.04	0.152	0.169
	Bluetooth	1Mbps	Back	10mm	Ant 4	Index 3/4	78	2480	18.40	18.50	1.023	76.86	1.084	-0.02	0.209	0.232
	Bluetooth	1Mbps	Left Side	10mm	Ant 4	Index 3/4	78	2480	18.40	18.50	1.023	76.86	1.084	0	0.001	0.001
	Bluetooth	1Mbps	Right Side	10mm	Ant 4	Index 3/4	78	2480	18.40	18.50	1.023	76.86	1.084	-0.14	0.226	0.251
72	Bluetooth	1Mbps	Top Side	10mm	Ant 4	Index 3/4	78	2480	18.40	18.50	1.023	76.86	1.084	-0.09	0.258	0.286
	Bluetooth	1Mbps	Top Side	10mm	Ant 4	Index 3/4	0	2402	18.20	18.50	1.072	76.86	1.084	0.06	0.234	0.272
	Bluetooth	1Mbps	Top Side	10mm	Ant 4	Index 3/4	39	2441	18.30	18.50	1.047	76.86	1.084	0	0.240	0.272
	Bluetooth	1Mbps	Front	10mm	Ant 3	Index 3/4	0	2402	20.27	21.00	1.183	77.07	1.081	0.06	0.093	0.119
	Bluetooth	1Mbps	Back	10mm	Ant 3	Index 3/4	0	2402	20.27	21.00	1.183	77.07	1.081	-0.16	0.110	0.141
	Bluetooth	1Mbps	Left Side	10mm	Ant 3	Index 3/4	0	2402	20.27	21.00	1.183	77.07	1.081	0.03	0.149	0.190
	Bluetooth	1Mbps	Left Side	10mm	Ant 3	Index 3/4	39	2441	20.24	21.00	1.191	77.07	1.081	0.02	0.180	0.232
	Bluetooth	1Mbps	Left Side	10mm	Ant 3	Index 3/4	78	2480	20.13	21.00	1.221	77.07	1.081	-0.1	0.201	0.265
	Bluetooth	1Mbps	Right Side	10mm	Ant 3	Index 3/4	0	2402	20.27	21.00	1.183	77.07	1.081	0	0.001	0.001
	Bluetooth	1Mbps	Top Side	10mm	Ant 3	Index 3/4	0	2402	20.27	21.00	1.183	77.07	1.081	-0.11	0.010	0.013
	Bluetooth	1Mbps	Front	10mm	Ant 4+3(4)	Index 3/4	78	2480	16.81	18.50	1.474	77.07	1.081	-0.07	0.105	0.167
	Bluetooth	1Mbps	Front	10mm	Ant 4+3(3)	Index 3/4	78	2480	17.31	18.50	1.314	77.07	1.081	0.06	0.052	0.074
	Bluetooth	1Mbps	Back	10mm	Ant 4+3(4)	Index 3/4	78	2480	16.81	18.50	1.474	77.07	1.081	-0.06	0.063	0.100
	Bluetooth	1Mbps	Back	10mm	Ant 4+3(3)	Index 3/4	78	2480	17.31	18.50	1.314	77.07	1.081	-0.01	0.126	0.179
	Bluetooth	1Mbps	Left Side	10mm	Ant 4+3(3)	Index 3/4	78	2480	17.31	18.50	1.314	77.07	1.081	-0.1	0.167	0.237
	Bluetooth	1Mbps	Left Side	10mm	Ant 4+3(3)	Index 3/4	0	2402	17.29	18.50	1.320	77.07	1.081	-0.18	0.199	0.284
	Bluetooth	1Mbps	Left Side	10mm	Ant 4+3(3)	Index 3/4	39	2441	17.22	18.50	1.341	77.07	1.081	-0.13	0.188	0.273
	Bluetooth	1Mbps	Right Side	10mm	Ant 4+3(4)	Index 3/4	78	2480	16.81	18.50	1.474	77.07	1.081	0.02	0.145	0.231
	Bluetooth	1Mbps	Top Side	10mm	Ant 4+3(4)	Index 3/4	78	2480	16.81	18.50	1.474	77.07	1.081	-0.12	0.123	0.196



15.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	Index 5	128	824.2	28.81	30.10	1.346	0.05	0.581	0.782
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	Index 5	128	824.2	28.81	30.10	1.346	0.04	0.729	0.981
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	Index 5	189	836.4	28.77	30.10	1.358	0.15	0.611	0.830
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	Index 5	251	848.8	28.81	30.10	1.346	0.07	0.560	0.754
	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	Index 6	128	824.2	28.81	29.40	1.146	0.05	0.581	0.666
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	Index 6	128	824.2	28.81	29.40	1.146	0.04	0.729	0.835
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	Index 6	189	836.4	28.77	29.40	1.156	0.15	0.611	0.706
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	Index 6	251	848.8	28.81	29.40	1.146	0.07	0.560	0.641
	GSM850_Ant 1	GPRS (4 Tx slots)	Front	10mm	Index 5	128	824.2	28.37	29.60	1.327	-0.02	0.322	0.427
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	Index 5	128	824.2	28.37	29.60	1.327	-0.19	0.510	0.677
73	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	Index 5	189	836.4	28.25	29.60	1.365	0.11	0.725	0.989
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	Index 5	251	848.8	28.24	29.60	1.368	-0.19	0.620	0.848
	GSM850_Ant 1	GPRS (4 Tx slots)	Front	10mm	Index 6	128	824.2	28.37	28.90	1.130	-0.02	0.322	0.364
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	Index 6	128	824.2	28.37	28.90	1.130	-0.19	0.510	0.576
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	Index 6	189	836.4	28.25	28.90	1.161	0.11	0.725	0.842
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	Index 6	251	848.8	28.24	28.90	1.164	-0.19	0.620	0.722
	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	Index 5	512	1850.2	22.46	24.20	1.493	-0.06	0.212	0.316
	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	Index 5	512	1850.2	22.46	24.20	1.493	-0.09	0.270	0.403
	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	Index 5	661	1880	22.35	24.20	1.531	0.14	0.244	0.374
	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	Index 5	810	1909.8	22.25	24.20	1.567	-0.09	0.239	0.374
	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	Index 6	512	1850.2	22.46	23.50	1.271	-0.06	0.212	0.269
	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	Index 6	512	1850.2	22.46	23.50	1.271	-0.09	0.270	0.343
	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	Index 6	661	1880	22.35	23.50	1.303	0.14	0.244	0.318
	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	Index 6	810	1909.8	22.25	23.50	1.334	-0.09	0.239	0.319
74	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	Index 5	661	1880	23.01	24.00	1.256	-0.16	0.501	0.629
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	Index 5	512	1850.2	22.93	24.00	1.279	-0.02	0.456	0.583
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	Index 5	810	1909.8	22.46	24.00	1.426	-0.14	0.391	0.557
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	Index 5	661	1880	23.01	24.00	1.256	-0.03	0.431	0.541
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	Index 6	661	1880	23.01	23.30	1.069	-0.16	0.501	0.536
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	Index 6	512	1850.2	22.93	23.30	1.089	-0.02	0.456	0.497
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	Index 6	810	1909.8	22.46	23.30	1.213	-0.14	0.391	0.474
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	Index 6	661	1880	23.01	23.30	1.069	-0.03	0.431	0.461

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Ant 2	RMC 12.2Kbps	Front	10mm	Index 5	9538	1907.6	20.70	21.40	1.175	-0.02	0.343	0.403
	WCDMA II_Ant 2	RMC 12.2Kbps	Front	10mm	Index 5	9262	1852.4	20.67	21.40	1.183	-0.15	0.274	0.324
	WCDMA II_Ant 2	RMC 12.2Kbps	Front	10mm	Index 5	9400	1880	20.69	21.40	1.178	0.11	0.327	0.385
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	Index 5	9538	1907.6	20.70	21.40	1.175	0.01	0.327	0.384
	WCDMA II_Ant 2	RMC 12.2Kbps	Front	10mm	Index 6	9538	1907.6	20.70	20.70	1.000	-0.02	0.343	0.343
	WCDMA II_Ant 2	RMC 12.2Kbps	Front	10mm	Index 6	9262	1852.4	20.67	20.70	1.007	-0.15	0.274	0.276
	WCDMA II_Ant 2	RMC 12.2Kbps	Front	10mm	Index 6	9400	1880	20.69	20.70	1.002	0.11	0.327	0.328
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	Index 6	9538	1907.6	20.70	20.70	1.000	0.01	0.327	0.327
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	Index 5	9262	1852.4	19.89	20.80	1.233	-0.01	0.708	0.873
75	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	Index 5	9400	1880	19.71	20.80	1.285	0	0.736	0.946
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	Index 5	9538	1907.6	19.84	20.80	1.247	-0.1	0.742	0.926
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	Index 5	9262	1852.4	19.89	20.80	1.233	0.03	0.399	0.492
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	Index 6	9262	1852.4	19.89	20.10	1.050	-0.01	0.708	0.743
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	Index 6	9400	1880	19.71	20.10	1.094	0	0.736	0.805
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	Index 6	9538	1907.6	19.84	20.10	1.062	-0.1	0.742	0.788
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	Index 6	9262	1852.4	19.89	20.10	1.050	0.03	0.399	0.419
	WCDMA IV_Ant 2	RMC 12.2Kbps	Front	10mm	Index 5	1312	1712.4	20.51	21.40	1.227	-0.19	0.217	0.266
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Index 5	1312	1712.4	20.51	21.40	1.227	-0.12	0.258	0.317
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Index 5	1413	1732.6	20.20	21.40	1.318	0.01	0.284	0.374
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Index 5	1513	1752.6	20.39	21.40	1.262	0.1	0.271	0.342
	WCDMA IV_Ant 2	RMC 12.2Kbps	Front	10mm	Index 6	1312	1712.4	20.51	20.70	1.045	-0.19	0.217	0.227
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Index 6	1312	1712.4	20.51	20.70	1.045	-0.12	0.258	0.270
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Index 6	1413	1732.6	20.20	20.70	1.122	0.01	0.284	0.319
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Index 6	1513	1752.6	20.39	20.70	1.074	0.1	0.271	0.291
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	Index 5	1413	1732.6	18.83	19.70	1.222	-0.01	0.524	0.640
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	Index 5	1312	1712.4	18.73	19.70	1.250	-0.15	0.510	0.638
76	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	Index 5	1513	1752.6	18.77	19.70	1.239	-0.04	0.566	0.701
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	Index 5	1413	1732.6	18.83	19.70	1.222	-0.14	0.384	0.469
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	Index 6	1413	1732.6	18.83	19.00	1.040	-0.01	0.524	0.545
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	Index 6	1312	1712.4	18.73	19.00	1.064	-0.15	0.510	0.543
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	Index 6	1513	1752.6	18.77	19.00	1.054	-0.04	0.566	0.597
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	Index 6	1413	1732.6	18.83	19.00	1.040	-0.14	0.384	0.399
	WCDMA V_Ant 0	RMC 12.2Kbps	Front	10mm	Index 5/6	4182	836.4	25.02	25.40	1.091	-0.01	0.505	0.551
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	Index 5/6	4182	836.4	25.02	25.40	1.091	-0.1	0.513	0.560
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	Index 5/6	4132	826.4	24.86	25.40	1.132	0.04	0.531	0.601
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	Index 5/6	4233	846.6	24.88	25.40	1.127	0.02	0.557	0.628
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	10mm	Index 5/6	4132	826.4	24.69	25.50	1.205	0.01	0.372	0.448
77	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Index 5/6	4132	826.4	24.69	25.50	1.205	-0.02	0.561	0.676
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Index 5/6	4182	836.4	24.64	25.50	1.219	-0.11	0.530	0.646
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Index 5/6	4233	846.6	24.58	25.50	1.236	0.06	0.514	0.635



<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2_Ant 1	20M	QPSK	1	0	Front	10mm	Index 5	19100	1900	20.58	21.50	1.236	0.02	0.370	0.457
	LTE Band 2_Ant 1	20M	QPSK	50	0	Front	10mm	Index 5	19100	1900	20.48	21.50	1.265	0.13	0.333	0.421
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	Index 5	19100	1900	20.58	21.50	1.236	0.01	0.380	0.470
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	Index 5	18700	1860	20.31	21.50	1.315	0.04	0.338	0.445
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	Index 5	18900	1880	20.39	21.50	1.291	0.01	0.323	0.417
	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	Index 5	19100	1900	20.48	21.50	1.265	-0.19	0.352	0.445
	LTE Band 2_Ant 1	20M	QPSK	1	0	Front	10mm	Index 6	19100	1900	20.58	20.80	1.052	0.02	0.370	0.389
	LTE Band 2_Ant 1	20M	QPSK	50	0	Front	10mm	Index 6	19100	1900	20.48	20.80	1.076	0.13	0.333	0.358
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	Index 6	19100	1900	20.58	20.80	1.052	0.01	0.380	0.400
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	Index 6	18700	1860	20.31	20.80	1.119	0.04	0.338	0.378
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	Index 6	18900	1880	20.39	20.80	1.099	0.01	0.323	0.355
	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	Index 6	19100	1900	20.48	20.80	1.076	-0.19	0.352	0.379
	LTE Band 2_Ant 5	20M	QPSK	1	0	Front	10mm	Index 5	18900	1880	21.55	22.40	1.216	-0.01	0.274	0.333
	LTE Band 2_Ant 5	20M	QPSK	50	0	Front	10mm	Index 5	18900	1880	21.50	22.40	1.230	0.13	0.268	0.330
	LTE Band 2_Ant 5	20M	QPSK	1	0	Back	10mm	Index 5	18900	1880	21.55	22.40	1.216	0.02	0.370	0.450
	LTE Band 2_Ant 5	20M	QPSK	1	0	Back	10mm	Index 5	18700	1860	21.52	22.40	1.225	-0.17	0.400	0.490
78	LTE Band 2_Ant 5	20M	QPSK	1	0	Back	10mm	Index 5	19100	1900	21.46	22.40	1.242	-0.03	0.413	0.513
	LTE Band 2_Ant 5	20M	QPSK	50	0	Back	10mm	Index 5	18900	1880	21.50	22.40	1.230	0.02	0.314	0.386
	LTE Band 2_Ant 5	20M	QPSK	1	0	Front	10mm	Index 6	18900	1880	21.55	21.70	1.035	-0.01	0.274	0.284
	LTE Band 2_Ant 5	20M	QPSK	50	0	Front	10mm	Index 6	18900	1880	21.50	21.70	1.047	0.13	0.268	0.281
	LTE Band 2_Ant 5	20M	QPSK	1	0	Back	10mm	Index 6	18900	1880	21.55	21.70	1.035	0.02	0.370	0.383
	LTE Band 2_Ant 5	20M	QPSK	1	0	Back	10mm	Index 6	18700	1860	21.52	21.70	1.042	-0.17	0.400	0.417
	LTE Band 2_Ant 5	20M	QPSK	1	0	Back	10mm	Index 6	19100	1900	21.46	21.70	1.057	-0.03	0.413	0.436
	LTE Band 2_Ant 5	20M	QPSK	50	0	Back	10mm	Index 6	18900	1880	21.50	21.70	1.047	0.02	0.314	0.329
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	20850	2510	21.36	22.20	1.213	-0.01	0.399	0.484
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	21100	2535	21.28	22.20	1.236	0.14	0.386	0.477
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	21350	2560	21.33	22.20	1.222	0	0.424	0.518
	LTE Band 7_Ant 2	20M	QPSK	50	0	Front	10mm	Index 5	20850	2510	21.06	22.20	1.300	-0.14	0.393	0.511
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	Index 5	20850	2510	21.36	22.20	1.213	-0.11	0.392	0.476
	LTE Band 7_Ant 2	20M	QPSK	50	0	Back	10mm	Index 5	20850	2510	21.06	22.20	1.300	0.13	0.258	0.335
	LTE Band 7C_Ant 2	20M+20M	QPSK	1	0	Front	10mm	Index 5	20850	2510	19.59	20.70	1.291	0.02	0.255	0.329
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	20850	2510	21.36	21.50	1.033	-0.01	0.399	0.412
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	21100	2535	21.28	21.50	1.052	0.14	0.386	0.406
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	21350	2560	21.33	21.50	1.040	0	0.424	0.441
	LTE Band 7_Ant 2	20M	QPSK	50	0	Front	10mm	Index 6	20850	2510	21.06	21.50	1.107	-0.14	0.393	0.435
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	Index 6	20850	2510	21.36	21.50	1.033	-0.11	0.392	0.405
	LTE Band 7_Ant 2	20M	QPSK	50	0	Back	10mm	Index 6	20850	2510	21.06	21.50	1.107	0.13	0.258	0.286
	LTE Band 7C_Ant 2	20M+20M	QPSK	1	0	Front	10mm	Index 6	20850	2510	19.59	20.00	1.099	0.02	0.255	0.280
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	20850	2510	21.24	22.00	1.191	0	0.711	0.847
79	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	21100	2535	21.01	22.00	1.256	-0.05	0.736	0.924
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	21350	2560	21.03	22.00	1.250	0.08	0.613	0.766
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	Index 5	20850	2510	21.02	22.00	1.253	0.08	0.631	0.791
	LTE Band 7_Ant 0	20M	QPSK	100	0	Front	10mm	Index 5	20850	2510	20.98	22.00	1.265	-0.06	0.618	0.782
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	Index 5	20850	2510	21.24	22.00	1.191	-0.07	0.658	0.784
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	Index 5	20850	2510	21.02	22.00	1.253	-0.11	0.620	0.777
	LTE Band 7C_Ant 0	20M+20M	QPSK	1	0	Front	10mm	Index 5	20850	2510	19.82	21.10	1.343	0.02	0.442	0.594
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	20850	2510	21.24	21.30	1.014	0	0.711	0.721
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	21100	2535	21.01	21.30	1.069	-0.05	0.736	0.787
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	21350	2560	21.03	21.30	1.064	0.08	0.613	0.652
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	Index 6	20850	2510	21.02	21.30	1.067	0.08	0.631	0.673
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	Index 6	20850	2510	21.24	21.30	1.014	-0.07	0.658	0.667
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	Index 6	20850	2510	21.02	21.30	1.067	-0.11	0.620	0.661
	LTE Band 7C_Ant 0	20M+20M	QPSK	1	0	Front	10mm	Index 6	20850	2510	19.82	20.40	1.143	0.02	0.442	0.505



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_Ant 0	10M	QPSK	1	0	Front	10mm	Index 5/6	23095	707.5	24.93	25.40	1.114	-0.14	0.258	0.287
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	Index 5/6	23095	707.5	23.92	24.40	1.117	-0.04	0.203	0.227
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	Index 5/6	23095	707.5	24.93	25.40	1.114	-0.06	0.318	0.354
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	Index 5/6	23095	707.5	23.92	24.40	1.117	-0.11	0.251	0.280
	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	Index 5/6	23095	707.5	24.70	25.50	1.202	-0.03	0.236	0.284
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	10mm	Index 5/6	23095	707.5	23.84	24.50	1.164	-0.04	0.193	0.225
80	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	Index 5/6	23095	707.5	24.70	25.50	1.202	0	0.386	0.464
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	10mm	Index 5/6	23095	707.5	23.84	24.50	1.164	-0.12	0.317	0.369
	LTE Band 13_Ant 0	10M	QPSK	1	0	Front	10mm	Index 5/6	23230	782	24.76	25.40	1.159	-0.1	0.339	0.393
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	Index 5/6	23230	782	23.90	24.40	1.122	0	0.278	0.312
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	Index 5/6	23230	782	24.76	25.40	1.159	-0.03	0.365	0.423
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	Index 5/6	23230	782	23.90	24.40	1.122	0.09	0.299	0.335
	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	10mm	Index 5/6	23230	782	24.74	25.50	1.191	-0.08	0.266	0.317
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	Index 5/6	23230	782	23.77	24.50	1.183	0.15	0.213	0.252
81	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	Index 5/6	23230	782	24.74	25.50	1.191	-0.09	0.411	0.490
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	Index 5/6	23230	782	23.77	24.50	1.183	-0.19	0.336	0.398
	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	Index 5/6	23330	793	24.77	25.40	1.156	-0.1	0.322	0.372
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	Index 5/6	23330	793	23.94	24.40	1.112	-0.02	0.266	0.296
82	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	Index 5/6	23330	793	24.77	25.40	1.156	-0.02	0.393	0.454
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	Index 5/6	23330	793	23.94	24.40	1.112	0.02	0.324	0.360
	LTE Band 14_Ant 1	10M	QPSK	1	0	Front	10mm	Index 5/6	23330	793	24.77	25.50	1.183	-0.05	0.285	0.337
	LTE Band 14_Ant 1	10M	QPSK	25	0	Front	10mm	Index 5/6	23330	793	23.74	24.50	1.191	-0.04	0.225	0.268
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	Index 5/6	23330	793	24.77	25.50	1.183	-0.06	0.372	0.440
	LTE Band 14_Ant 1	10M	QPSK	25	0	Back	10mm	Index 5/6	23330	793	23.74	24.50	1.191	-0.05	0.301	0.359
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	26340	1880	20.98	21.70	1.180	0	0.347	0.410
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	26140	1860	20.73	21.70	1.250	0.03	0.300	0.375
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	Index 5	26590	1905	20.66	21.70	1.271	0	0.344	0.437
	LTE Band 25_Ant 2	20M	QPSK	50	0	Front	10mm	Index 5	26340	1880	20.90	21.70	1.202	-0.08	0.333	0.400
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	Index 5	26340	1880	20.98	21.70	1.180	-0.07	0.341	0.402
	LTE Band 25_Ant 2	20M	QPSK	50	0	Back	10mm	Index 5	26340	1880	20.90	21.70	1.202	-0.04	0.328	0.394
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	26340	1880	20.98	21.00	1.005	0	0.347	0.349
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	26140	1860	20.73	21.00	1.064	0.03	0.300	0.319
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	Index 6	26590	1905	20.66	21.00	1.081	0	0.344	0.372
	LTE Band 25_Ant 2	20M	QPSK	50	0	Front	10mm	Index 6	26340	1880	20.90	21.00	1.023	-0.08	0.333	0.341
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	Index 6	26340	1880	20.98	21.00	1.005	-0.07	0.341	0.343
	LTE Band 25_Ant 2	20M	QPSK	50	0	Back	10mm	Index 6	26340	1880	20.90	21.00	1.023	-0.04	0.328	0.336
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	26340	1880	19.58	20.50	1.236	0.01	0.344	0.425
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	26140	1860	19.19	20.50	1.352	-0.04	0.436	0.590
83	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	Index 5	26590	1905	19.18	20.50	1.355	0.07	0.515	0.698
	LTE Band 25_Ant 0	20M	QPSK	50	0	Front	10mm	Index 5	26340	1880	19.56	20.50	1.242	0.01	0.287	0.356
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	Index 5	26340	1880	19.58	20.50	1.236	-0.05	0.264	0.326
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	Index 5	26340	1880	19.56	20.50	1.242	-0.18	0.232	0.288
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	26340	1880	19.58	19.80	1.052	0.01	0.344	0.362
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	26140	1860	19.19	19.80	1.151	-0.04	0.436	0.502
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	Index 6	26590	1905	19.18	19.80	1.153	0.07	0.515	0.594
	LTE Band 25_Ant 0	20M	QPSK	50	0	Front	10mm	Index 6	26340	1880	19.56	19.80	1.057	0.01	0.287	0.303
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	Index 6	26340	1880	19.58	19.80	1.052	-0.05	0.264	0.278
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	Index 6	26340	1880	19.56	19.80	1.057	-0.18	0.232	0.245