

FCC SAR TEST REPORT

FCC ID : A4RGXQ96
Equipment : Phone
Model Name : GXQ96
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on May 17, 2024 and testing was started from Jul. 16, 2024 and completed on Aug. 31, 2024. 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
FA451606B	01	Initial issue of report	Sep. 25, 2024
FA451606B	02	Update section 14	Oct. 17, 2024
FA451606B	03	Update section 1 and appendix F	Oct. 28, 2024



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Google LLC, Phone, GXQ96, 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	0.99	0.90	0.58		1.59	
	GSM1900	0.48	0.74	0.74			
	WCDMA II	0.80	0.73	0.69			
	WCDMA IV	0.63	0.61	0.62			
	WCDMA V	0.99	0.82	0.64			
	LTE Band 2	0.97	0.85	0.67			
	LTE Band 7	0.95	0.88	0.83			
	LTE Band 12/17	0.83	0.46	0.46			
	LTE Band 13	0.90	0.79	0.66			
	LTE Band 14	0.83	0.76	0.66			
	LTE Band 25/2	0.58	0.72	0.85			
	LTE Band 26/5	0.98	0.78	0.65			
	LTE Band 30	0.67	0.70	0.70			
	LTE Band 41/38	0.71	0.70	0.82			
	LTE Band 48	0.59	0.52	0.81			
	LTE Band 66/4	0.98	0.75	0.69			
	LTE Band 71	0.99	0.44	0.49			
	FR1 n7	0.85	0.99	0.74			
	FR1 n12	0.87	0.37	0.47			
	FR1 n14	0.82	0.65	0.62			
	FR1 n25/n2	0.84	0.73	0.79			
	FR1 n26/n5	0.88	0.73	0.65			
	FR1 n30	0.66	0.75	0.64			
	FR1 n41/n38	0.95	0.89	0.84			
	FR1 n48	0.97	0.93	0.72			
	FR1 n66	0.60	0.77	0.64			
	FR1 n70	0.60	0.93	0.70			
	FR1 n71	0.93	0.39	0.48			
	FR1 n77/n78	0.98	0.70	0.81			
DXX	13.56 MHz				0.06		2.79
DTS	2.4GHz WLAN	1.17	0.73	0.31		1.59	
NII	5GHz WLAN	1.18	0.77	0.49	2.79	1.59	2.79
6CD	6GHz WLAN	1.13	0.21		0.49		
VLP	6GHz WLAN			0.14		1.58	
DSS	Bluetooth	0.24	0.52	0.23		1.59	
Equipment Class	Frequency Band	Head	Body-worn	Hotspot	Product Specific	Reported PD	
		Reported APD (mW/cm^2)	Reported APD (mW/cm^2)	Reported APD (mW/cm^2)	Reported APD (mW/cm^2)	(mW/cm^2)	
6CD	6GHz WLAN	0.67	0.16	0.11	1.16	0.73	
Date of Testing:		2024/07/16 ~ 2024/8/31					

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 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	GXQ96
FCC ID	A4RGXQ96
S/N	46181JEBF10880, 46181JEBF10882, 46181JEBF10899, 46181JEBF10878, 46181JEBF10901 46181JEBF10885, 46181JEBF10898, 46181JEBF10889, 46181JEBF10902, 46181JEBF10895 46181JEBF10897, 46181JEBF10908, 46181JEBF10900
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 n14: 788 MHz ~ 798 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, 3450 MHz ~ 3550 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 5.9 GHz 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 WPC Rx: 110.1 kHz ~ 148.5 kHz

Mode	GSM/GPRS/EGPRS UMTS: 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 HT20/HT40/VHT20/VHT40/VHT80/HE20/HE40/HE80 Bluetooth BR/EDR/LE/LE CS NFC: ASK WPC Rx: ASK
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: - Dynamic antenna tuning mechanism is available at Ant. 0, 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 and 6GHz VLP 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 and product specific), the TAS feature will manage to ensure the power level not exceeding the associated power table. Also device 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 device additionally supports uplink MIMO on n41/n48/n77/n78, due to UL MIMO antenna operating on different antenna groups, therefore TAS validation is not required. - The PC1.5 only support uplink MIMO.	



2.2 Maximum Tune-up Limit

General Note:

1. In the report PC3 as power class3, PC2 as power class2, PC1.5 as power class1.5.
2. For each cellular band, the device has several WWAN antennas, the antenna selection is based on the connection quality condition.
3. 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.
4. The index 1 is for the max power conditions, and the use case supplemental SAR were evaluated in appendix G.
5. 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.
6. 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/n14/n26/n71 ANT 1: LTE B2/B66, NR n41/n48/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/n78
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/n14/n26/n71 ANT 2: LTE B48, NR n48/n77/n78 ANT 5: LTE B2/B66, NR n41/n48/n77/n78



Maximum Transmit Burst Average Power (dBm)								
Band	Antenna	Duty cycle	Maximum Power Condition	Head	Head	Hotspot	Body-worn/ Extremity	Body-worn/ Extremity
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
			Index 1	Index 2	Index 3	Index 4	Index 5	Index 6
GSM850 GSM/GPRS 1TX	0	12.50%	33.50	33.50	33.50	33.50	33.50	33.50
GSM850 GPRS 2TX	0	25.00%	32.50	32.50	31.80	32.20	32.50	32.20
GSM850 GPRS 3TX	0	37.50%	31.50	31.50	30.00	30.40	31.50	30.40
GSM850 GPRS 4TX	0	50.00%	30.00	30.00	28.80	29.20	30.00	29.20
GSM850 EDGE 1TX	0	12.50%	28.00	28.00	28.00	28.00	28.00	28.00
GSM850 EDGE 2TX	0	25.00%	27.50	27.50	27.50	27.50	27.50	27.50
GSM850 EDGE 3TX	0	37.50%	27.50	27.50	27.50	27.50	27.50	27.50
GSM850 EDGE 4TX	0	50.00%	25.50	25.50	25.50	25.50	25.50	25.50
GSM850 GSM/GPRS 1TX	1	12.50%	33.00	31.00	28.90	32.20	33.00	32.20
GSM850 GPRS 2TX	1	25.00%	32.50	28.00	25.90	29.20	32.30	29.20
GSM850 GPRS 3TX	1	37.50%	30.50	26.20	24.10	27.40	30.50	27.40
GSM850 GPRS 4TX	1	50.00%	28.00	25.00	22.90	26.20	28.00	26.20
GSM850 EDGE 1TX	1	12.50%	27.50	27.50	27.50	27.50	27.50	27.50
GSM850 EDGE 2TX	1	25.00%	27.00	27.00	25.90	27.00	27.00	27.00
GSM850 EDGE 3TX	1	37.50%	27.00	26.20	24.10	27.00	27.00	27.00
GSM850 EDGE 4TX	1	50.00%	24.00	24.00	22.90	24.00	24.00	24.00
GSM1900 GSM/GPRS 1TX	2	12.50%	30.50	30.50	30.50	30.50	30.50	30.50
GSM1900 GPRS 2TX	2	25.00%	29.50	29.50	29.50	28.80	28.80	28.80
GSM1900 GPRS 3TX	2	37.50%	29.00	29.00	29.00	27.00	27.00	27.00
GSM1900 GPRS 4TX	2	50.00%	28.00	28.00	28.00	25.80	25.80	25.80
GSM1900 EDGE 1TX	2	12.50%	26.00	26.00	26.00	26.00	26.00	26.00
GSM1900 EDGE 2TX	2	25.00%	25.00	25.00	25.00	25.00	25.00	25.00
GSM1900 EDGE 3TX	2	37.50%	25.00	25.00	25.00	25.00	25.00	25.00
GSM1900 EDGE 4TX	2	50.00%	24.00	24.00	24.00	24.00	24.00	24.00
GSM1900 GSM/GPRS 1TX	0	12.50%	30.00	30.00	30.00	30.00	30.00	30.00
GSM1900 GPRS 2TX	0	25.00%	29.50	29.50	29.50	28.50	29.50	28.50
GSM1900 GPRS 3TX	0	37.50%	28.50	28.50	28.50	26.70	28.50	26.70
GSM1900 GPRS 4TX	0	50.00%	27.50	27.50	27.50	25.50	27.30	25.50
GSM1900 EDGE 1TX	0	12.50%	26.00	26.00	26.00	26.00	26.00	26.00
GSM1900 EDGE 2TX	0	25.00%	24.50	24.50	24.50	24.50	24.50	24.50
GSM1900 EDGE 3TX	0	37.50%	24.50	24.50	24.50	24.50	24.50	24.50
GSM1900 EDGE 4TX	0	50.00%	23.50	23.50	23.50	23.50	23.50	23.50

Maximum Transmit Burst Average Power (dBm)								
Band	Antenna	Duty cycle	Maximum Power Condition	Head	Head	Hotspot	Body-worn/ Extremity	Body-worn/ Extremity
			Index 1	Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
				Index 2	Index 3	Index 4	Index 5	Index 6
WCDMA B2	2	100.00%	25.70	25.70	24.50	22.10	22.10	22.10
WCDMA B2	0	100.00%	25.20	25.20	24.20	21.90	24.00	21.90
WCDMA B4	2	100.00%	25.70	25.70	25.50	22.30	22.30	22.30
WCDMA B4	0	100.00%	25.20	25.20	25.20	23.60	25.10	23.60
WCDMA B5	0	100.00%	25.70	25.70	25.00	25.50	25.70	25.50
WCDMA B5	1	100.00%	25.20	21.60	19.50	22.50	25.20	22.50
LTE Band 2	1	100.00%	25.70	16.30	14.50	18.70	21.50	18.70
LTE Band 2	5	100.00%	25.20	18.10	16.90	21.00	22.70	21.00
LTE Band 7	2	100.00%	25.70	25.70	23.70	21.30	21.60	21.60
LTE Band 7	0	100.00%	25.20	25.20	24.90	21.00	23.60	21.00
LTE Band 12/B17	0	100.00%	25.70	25.70	25.70	25.70	25.70	25.70
LTE Band 12/B17	1	100.00%	25.20	22.40	21.00	25.10	25.20	25.10
LTE Band 13	0	100.00%	25.70	25.70	25.70	25.20	25.70	25.30
LTE Band 13	1	100.00%	25.70	22.40	20.60	23.20	25.70	23.20
LTE Band 14	0	100.00%	25.70	25.70	25.60	25.10	25.70	25.60
LTE Band 14	1	100.00%	25.70	22.10	20.70	23.40	25.70	23.40
LTE Band 25/B2	2	100.00%	25.70	25.70	25.70	22.20	22.20	22.20
LTE Band 25/B2	0	100.00%	25.20	25.20	25.10	22.70	23.40	22.70
LTE Band 26/B5	0	100.00%	25.70	25.70	25.40	25.50	25.70	25.70
LTE Band 26/B5	1	100.00%	25.20	21.40	19.30	22.70	25.20	22.70
LTE Band 30	2	100.00%	25.70	25.70	25.30	21.50	21.50	21.50
LTE Band 30	0	100.00%	25.20	25.20	25.20	24.60	25.20	24.60
LTE Band 41/B38 PC3	2	63.30%	25.70	25.70	25.00	23.30	23.70	23.70
LTE Band 41/B38 PC2	2	43.30%	27.50	27.50	26.60	24.90	25.30	25.30
LTE Band 41/B38 PC3	0	63.30%	25.20	25.20	25.20	23.60	25.20	23.60
LTE Band 41/B38 PC2	0	43.30%	27.00	27.00	27.00	25.20	27.00	25.20
LTE Band 48 PC3	6	63.30%	24.70	24.70	24.70	23.00	23.00	23.00
LTE Band 48 PC3	2	63.30%	24.50	24.50	24.50	22.10	23.20	23.20
LTE Band 66/B4	2	100.00%	25.70	25.70	25.70	22.40	22.40	22.40
LTE Band 66/B4	0	100.00%	25.20	25.20	25.20	23.40	24.70	23.40
LTE Band 66	1	100.00%	25.70	16.30	15.50	20.30	22.60	20.30
LTE Band 66	5	100.00%	25.20	19.70	18.50	23.10	23.10	23.10
LTE Band 71	0	100.00%	25.70	25.70	25.70	25.70	25.70	25.70
LTE Band 71	1	100.00%	25.20	22.50	20.30	25.20	25.20	25.20

Maximum Transmit Burst Average Power (dBm)								
Band	Antenna	Duty cycle	Maximum Power Condition	Head	Head	Hotspot	Body-worn/ Extremity	Body-worn/ Extremity
			Index 1	Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
				Index 2	Index 3	Index 4	Index 5	Index 6
FR1 n7	2	100.00%	25.70	25.40	23.90	21.30	22.00	21.30
FR1 n7	0	100.00%	25.20	25.20	24.80	20.60	23.60	20.60
FR1 n12	0	100.00%	25.70	25.70	25.70	25.70	25.70	25.70
FR1 n12	1	100.00%	25.20	22.10	20.50	25.20	25.20	25.20
FR1 n14	0	100.00%	25.70	25.70	25.20	25.30	25.70	25.30
FR1 n14	1	100.00%	25.70	22.30	21.10	24.00	25.70	24.00
FR1 n25/n2	2	100.00%	25.70	25.70	24.30	22.10	22.10	22.10
FR1 n25/n2	0	100.00%	25.20	25.20	24.30	22.60	24.00	22.60
FR1 n26/n5	0	100.00%	25.70	25.70	25.50	25.70	25.70	25.70
FR1 n26/n5	1	100.00%	25.20	21.50	19.80	23.10	25.20	23.10
FR1 n30	2	100.00%	25.70	25.70	25.30	21.00	21.70	21.00
FR1 n30	0	100.00%	25.20	25.20	25.20	24.00	25.20	24.00
FR1 n41/n38 PC3	2	100.00%	25.70	25.50	23.50	21.60	21.70	21.70
FR1 n41 PC2	2	50.00%	27.50	27.50	26.50	24.60	24.70	24.70
FR1 n41 PC1.5	2	25.00%	27.50	27.50	27.50	27.50	27.50	27.50
FR1 n41/n38 PC3	0	100.00%	25.20	25.20	25.20	21.90	24.40	21.90
FR1 n41 PC2	0	50.00%	27.00	27.00	27.00	24.90	27.00	24.90
FR1 n41 PC1.5	0	25.00%	27.00	27.00	27.00	27.00	27.00	27.00
FR1 n41 PC3	1	100.00%	25.20	15.90	14.60	19.30	22.40	19.30
FR1 n41 PC2	1	50.00%	27.00	18.90	17.60	22.30	25.40	22.30
FR1 n41 PC1.5	1	25.00%	27.00	21.90	20.60	25.30	27.00	25.30
FR1 n41 PC3	5	100.00%	24.70	16.60	15.60	19.70	22.10	19.70
FR1 n41 PC2	5	50.00%	26.50	19.60	18.60	22.70	25.10	22.70
FR1 n41 PC1.5	5	25.00%	26.50	22.60	21.60	25.70	26.50	25.70
FR1 n48 PC3	6	100.00%	24.60	24.60	24.60	20.30	20.30	20.30
FR1 n48 PC3	2	100.00%	24.50	24.50	23.10	19.40	20.90	20.90
FR1 n48 PC3	1	100.00%	24.60	16.20	14.10	21.20	21.20	21.20
FR1 n48 PC3	5	100.00%	24.50	15.90	15.20	20.60	22.60	20.60
FR1 n66	2	100.00%	25.70	25.70	25.70	22.70	22.70	22.70
FR1 n66	0	100.00%	25.20	25.20	25.20	22.70	25.00	22.70
FR1 n70	2	100.00%	25.70	25.70	25.60	23.10	23.10	23.10
FR1 n70	0	100.00%	25.20	25.20	25.20	21.40	24.50	21.40
FR1 n71	0	100.00%	25.70	25.70	25.70	25.70	25.70	25.70
FR1 n71	1	100.00%	25.20	23.30	21.70	25.20	25.20	25.20
FR1 n77/n78 PC3	6	100.00%	25.70	25.70	24.30	20.80	20.80	20.80
FR1 n77/n78 PC2	6	50.00%	27.30	27.30	27.30	23.90	23.90	23.90
FR1 n77/n78 PC1.5	6	25.00%	27.20	27.20	27.20	26.80	26.80	26.80
FR1 n77/n78 PC3	2	100.00%	25.20	25.10	23.00	19.50	21.00	21.00
FR1 n77/n78 PC2	2	50.00%	26.70	26.70	26.00	22.50	24.00	24.00
FR1 n77/n78 PC1.5	2	25.00%	26.70	26.70	26.70	25.50	26.70	26.70
FR1 n77/n78 PC3	1	100.00%	25.70	15.50	13.60	19.60	21.60	19.60
FR1 n77/n78 PC2	1	50.00%	27.10	18.60	16.70	22.70	24.70	22.70
FR1 n77/n78 PC1.5	1	25.00%	27.00	21.50	19.60	25.60	27.00	25.60
FR1 n77/n78 PC3	5	100.00%	25.20	15.60	14.90	21.70	22.90	21.70
FR1 n77/n78 PC2	5	50.00%	26.50	18.60	17.90	24.70	25.90	24.70
FR1 n77/n78 PC1.5	5	25.00%	26.50	21.60	20.90	26.50	26.50	26.50

**<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 14 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

Burst Average Power (dBm)																						
2.4GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11b (SISO)	1	2412	22.50	22.50	15.00	15.00		15.00	10.00	10.00		10.00	20.50	20.50		20.50	15.00	15.00		15.00		
	6	2437	22.50	22.50	15.00	15.00		15.00	10.00	10.00		10.00	20.50	20.50		20.50	15.00	15.00		15.00		
	11	2462	22.50	21.50	15.00	15.00		15.00	10.00	10.00		10.00	20.50	20.50		20.50	15.00	15.00		15.00		
	12	2467	22.50	20.00	15.00	15.00		15.00	10.00	10.00		10.00	20.50	20.00		20.00	15.00	15.00		15.00		
	13	2472	22.00	19.00	15.00	15.00		15.00	10.00	10.00		10.00	20.50	19.00		19.00	15.00	15.00		15.00		
802.11g (SISO)	1	2412		17.00				15.00				10.00				17.00				15.00		
	2	2417		19.50																		
	6	2437		21.50				15.00				10.00				20.50				15.00		
	10	2457		18.00																		
	11	2462		16.00				15.00				10.00				16.00				15.00		
	12	2467		12.00				12.00				10.00				12.00				12.00		
	13	2472		3.00				3.00				3.00				3.00				3.00		
802.11n HT20 (SISO)	1	2412		17.00				15.00				10.00				17.00				15.00		
	2	2417		18.50																		
	6	2437		21.50				15.00				10.00				20.50				15.00		
	10	2457		14.50																		
	11	2462		15.00				15.00				10.00				15.00				15.00		
	12	2467		11.50				11.50				10.00				11.50				11.50		
	13	2472		4.50				4.50				4.50				4.50				4.50		
802.11ac VHT20 (SISO)	1	2412		17.00				15.00				10.00				17.00				15.00		
	2	2417		18.50																		
	6	2437		21.50				15.00				10.00				20.50				15.00		
	10	2457		14.50																		
	11	2462		15.00				15.00				10.00				15.00				15.00		
	12	2467		11.50				11.50				10.00				11.50				11.50		
	13	2472		4.50				4.50				4.50				4.50				4.50		
802.11ax HE20 (SISO)	1	2412		17.00				15.00				10.00				17.00				15.00		
	2	2417		18.50																		
	6	2437		21.50				15.00				10.00				20.50				15.00		
	10	2457		14.50																		
	11	2462		15.00				15.00				10.00				15.00				15.00		
	12	2467		11.50				11.50				10.00				11.50				11.50		
	13	2472		4.50				4.50				4.50				4.50				4.50		



Burst Average Power (dBm)																						
2.4GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11g (MIMO)	1	2412	17.00	17.00	15.00	15.00			10.00	10.00			17.00	17.00			15.00	15.00				
	2	2417	19.50	19.50																		
	6	2437	21.50	21.50	15.00	15.00			10.00	10.00			20.50	20.50			15.00	15.00				
	10	2457	18.00	18.00																		
	11	2462	16.00	16.00	15.00	15.00			10.00	10.00			16.00	16.00			15.00	15.00				
	12	2467	12.00	12.00	12.00	12.00			10.00	10.00			12.00	12.00			12.00	12.00				
	13	2472	3.00	3.00	3.00	3.00			3.00	3.00			3.00	3.00			3.00	3.00				
802.11n HT20 (MIMO)	1	2412	17.00	17.00	15.00	15.00			10.00	10.00			17.00	17.00			15.00	15.00				
	2	2417	18.50	18.50																		
	6	2437	21.50	21.50	15.00	15.00			10.00	10.00			20.50	20.50			15.00	15.00				
	10	2457	14.50	14.50																		
	11	2462	15.00	15.00	15.00	15.00			10.00	10.00			15.00	15.00			15.00	15.00				
	12	2467	11.50	11.50	11.50	11.50			10.00	10.00			11.50	11.50			11.50	11.50				
	13	2472	4.50	4.50	4.50	4.50			4.50	4.50			4.50	4.50			4.50	4.50				
802.11ac VHT20 (MIMO)	1	2412	17.00	17.00	15.00	15.00			10.00	10.00			17.00	17.00			15.00	15.00				
	2	2417	18.50	18.50																		
	6	2437	21.50	21.50	15.00	15.00			10.00	10.00			20.50	20.50			15.00	15.00				
	10	2457	14.50	14.50																		
	11	2462	15.00	15.00	15.00	15.00			10.00	10.00			15.00	15.00			15.00	15.00				
	12	2467	11.50	11.50	11.50	11.50			10.00	10.00			11.50	11.50			11.50	11.50				
	13	2472	4.50	4.50	4.50	4.50			4.50	4.50			4.50	4.50			4.50	4.50				
802.11ax HE20 (MIMO)	1	2412	17.00	17.00	15.00	15.00			10.00	10.00			17.00	17.00			15.00	15.00				
	2	2417	18.50	18.50																		
	6	2437	21.50	21.50	15.00	15.00			10.00	10.00			20.50	20.50			15.00	15.00				
	10	2457	14.50	14.50																		
	11	2462	15.00	15.00	15.00	15.00			10.00	10.00			15.00	15.00			15.00	15.00				
	12	2467	11.50	11.50	11.50	11.50			10.00	10.00			11.50	11.50			11.50	11.50				
	13	2472	4.50	4.50	4.50	4.50			4.50	4.50			4.50	4.50			4.50	4.50				



Burst Average Power (dBm)																						
5.2GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (SISO)	36	5180	15.50				14.00				11.50				15.50				15.50			
	40	5200	17.50				14.00				11.50				17.50				17.50			
	44	5220	17.50				14.00				11.50				17.50				17.50			
	48	5240	17.00				14.00				11.50				17.00				17.00			
802.11n HT20 (SISO)	36	5180	14.50				14.00				11.50				14.50				14.50			
	40	5200	17.00				14.00				11.50				17.00				17.00			
	44	5220	17.50				14.00				11.50				17.50				17.50			
	48	5240	17.00				14.00				11.50				17.00				17.00			
802.11n HT40 (SISO)	38	5190	11.50				11.50				11.50				11.50				11.50			
	46	5230	15.50				14.00				11.50				15.50				15.50			
802.11ac VHT20 (SISO)	36	5180	14.50				14.00				11.50				14.50				14.50			
	40	5200	17.00				14.00				11.50				17.00				17.00			
	44	5220	17.50				14.00				11.50				17.50				17.50			
	48	5240	17.00				14.00				11.50				17.00				17.00			
802.11ac VHT40 (SISO)	38	5190	11.50				11.50				11.50				11.50				11.50			
	46	5230	15.50				14.00				11.50				15.50				15.50			
802.11ac VHT80 (SISO)	42	5210	11.50				11.50				11.50				11.50				11.50			
802.11ax HE20 (SISO)	36	5180	14.50				14.00				11.50				14.50				14.50			
	40	5200	17.00				14.00				11.50				17.00				17.00			
	44	5220	17.50				14.00				11.50				17.50				17.50			
	48	5240	17.00				14.00				11.50				17.00				17.00			
802.11ax HE40 (SISO)	38	5190	11.50				11.50				11.50				11.50				11.50			
	46	5230	15.50				14.00				11.50				15.50				15.50			
802.11ax HE80 (SISO)	42	5210	11.50				11.50				11.50				11.50				11.50			



Burst Average Power (dBm)																						
5.2GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	36	5180	15.50	15.50	13.50	13.50			10.50	10.50			15.50	15.50			15.50	15.50			15.50	15.50
	40	5200	17.50	17.50	13.50	13.50			10.50	10.50			17.50	17.50			17.50	17.50			17.50	17.50
	44	5220	17.50	17.50	13.50	13.50			10.50	10.50			17.50	17.50			17.50	17.50			17.50	17.50
	48	5240	17.00	17.00	13.50	13.50			10.50	10.50			17.00	17.00			17.00	17.00			17.00	17.00
802.11n HT20 (MIMO)	36	5180	14.50	14.50	13.50	13.50			10.50	10.50			14.50	14.50			14.50	14.50			14.50	14.50
	40	5200	17.00	17.00	13.50	13.50			10.50	10.50			17.00	17.00			17.00	17.00			17.00	17.00
	44	5220	17.50	17.50	13.50	13.50			10.50	10.50			17.50	17.50			17.50	17.50			17.50	17.50
	48	5240	17.00	17.00	13.50	13.50			10.50	10.50			17.00	17.00			17.00	17.00			17.00	17.00
802.11n HT40 (MIMO)	38	5190	11.50	11.50	11.50	11.50			10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
	46	5230	15.50	15.50	13.50	13.50			10.50	10.50			15.50	15.50			15.50	15.50			15.50	15.50
802.11ac VHT20 (MIMO)	36	5180	14.50	14.50	13.50	13.50			10.50	10.50			14.50	14.50			14.50	14.50			14.50	14.50
	40	5200	17.00	17.00	13.50	13.50			10.50	10.50			17.00	17.00			17.00	17.00			17.00	17.00
	44	5220	17.50	17.50	13.50	13.50			10.50	10.50			17.50	17.50			17.50	17.50			17.50	17.50
	48	5240	17.00	17.00	13.50	13.50			10.50	10.50			17.00	17.00			17.00	17.00			17.00	17.00
802.11ac VHT40 (MIMO)	38	5190	11.50	11.50	11.50	11.50			10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
	46	5230	15.50	15.50	13.50	13.50			10.50	10.50			15.50	15.50			15.50	15.50			15.50	15.50
802.11ac VHT80 (MIMO)	42	5210	11.50	11.50	11.50	11.50			10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
802.11ax HE20 (MIMO)	36	5180	14.50	14.50	13.50	13.50			10.50	10.50			14.50	14.50			14.50	14.50			14.50	14.50
	40	5200	17.00	17.00	13.50	13.50			10.50	10.50			17.00	17.00			17.00	17.00			17.00	17.00
	44	5220	17.50	17.50	13.50	13.50			10.50	10.50			17.50	17.50			17.50	17.50			17.50	17.50
	48	5240	17.00	17.00	13.50	13.50			10.50	10.50			17.00	17.00			17.00	17.00			17.00	17.00
802.11ax HE40 (MIMO)	38	5190	11.50	11.50	11.50	11.50			10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
	46	5230	15.50	15.50	13.50	13.50			10.50	10.50			15.50	15.50			15.50	15.50			15.50	15.50
802.11ax HE80 (MIMO)	42	5210	11.50	11.50	11.50	11.50			10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50



Burst Average Power (dBm)																							
5.3GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
802.11a (SISO)	52	5260	18.50				14.00				11.50				18.50				18.50				
	56	5280	17.00				14.00				11.50				17.00				17.00				
	60	5300	16.50				14.00				11.50				16.50				16.50				
	64	5320	14.00				14.00				11.50				14.00				14.00				
802.11n HT20 (SISO)	52	5260	20.00				14.00				11.50				20.00				20.00				
	56	5280	16.50				14.00				11.50				16.50				16.50				
	60	5300	16.50				14.00				11.50				16.50				16.50				
	64	5320	11.50				11.50				11.50				11.50				11.50				
802.11n HT40 (SISO)	54	5270	15.50				14.00				11.50				15.50				15.50				
	62	5310	11.50				11.50				11.50				11.50				11.50				
802.11ac VHT20 (SISO)	52	5260	20.00				14.00				11.50				20.00				20.00				
	56	5280	16.50				14.00				11.50				16.50				16.50				
	60	5300	16.50				14.00				11.50				16.50				16.50				
	64	5320	11.50				11.50				11.50				11.50				11.50				
802.11ac VHT40 (SISO)	54	5270	15.50				14.00				11.50				15.50				15.50				
	62	5310	11.50				11.50				11.50				11.50				11.50				
802.11ac VHT80 (SISO)	58	5290	11.50				11.50				11.50				11.50				11.50				
802.11ax HE20 (SISO)	52	5260	20.00				14.00				11.50				20.00				20.00				
	56	5280	16.50				14.00				11.50				16.50				16.50				
	60	5300	16.50				14.00				11.50				16.50				16.50				
	64	5320	11.50				11.50				11.50				11.50				11.50				
802.11ax HE40 (SISO)	54	5270	15.50				14.00				11.50				15.50				15.50				
	62	5310	11.50				11.50				11.50				11.50				11.50				
802.11ax HE80 (SISO)	58	5290	11.50				11.50				11.50				11.50				11.50				



Burst Average Power (dBm)																							
5.3GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
802.11a (MIMO)	52	5260	18.50	18.50	13.50	13.50				10.50	10.50			18.50	18.50			18.50	18.50			18.50	18.50
	56	5280	17.00	17.00	13.50	13.50				10.50	10.50			17.00	17.00			17.00	17.00			17.00	17.00
	60	5300	16.50	16.50	13.50	13.50				10.50	10.50			16.50	16.50			16.50	16.50			16.50	16.50
	64	5320	14.00	14.00	13.50	13.50				10.50	10.50			14.00	14.00			14.00	14.00			14.00	14.00
802.11n HT20 (MIMO)	52	5260	20.00	20.00	13.50	13.50				10.50	10.50			20.00	20.00			20.00	20.00			20.00	20.00
	56	5280	16.50	16.50	13.50	13.50				10.50	10.50			16.50	16.50			16.50	16.50			16.50	16.50
	60	5300	16.50	16.50	13.50	13.50				10.50	10.50			16.50	16.50			16.50	16.50			16.50	16.50
	64	5320	11.50	11.50	11.50	11.50				10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
802.11n HT40 (MIMO)	54	5270	15.50	15.50	13.50	13.50				10.50	10.50			15.50	15.50			15.50	15.50			15.50	15.50
	62	5310	11.50	11.50	11.50	11.50				10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
802.11ac VHT20 (MIMO)	52	5260	20.00	20.00	13.50	13.50				10.50	10.50			20.00	20.00			20.00	20.00			20.00	20.00
	56	5280	16.50	16.50	13.50	13.50				10.50	10.50			16.50	16.50			16.50	16.50			16.50	16.50
	60	5300	16.50	16.50	13.50	13.50				10.50	10.50			16.50	16.50			16.50	16.50			16.50	16.50
	64	5320	11.50	11.50	11.50	11.50				10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
802.11ac VHT40 (MIMO)	54	5270	15.50	15.50	13.50	13.50				10.50	10.50			15.50	15.50			15.50	15.50			15.50	15.50
	62	5310	11.50	11.50	11.50	11.50				10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
802.11ac VHT80 (MIMO)	58	5290	11.50	11.50	11.50	11.50				10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
802.11ax HE20 (MIMO)	52	5260	20.00	20.00	13.50	13.50				10.50	10.50			20.00	20.00			20.00	20.00			20.00	20.00
	56	5280	16.50	16.50	13.50	13.50				10.50	10.50			16.50	16.50			16.50	16.50			16.50	16.50
	60	5300	16.50	16.50	13.50	13.50				10.50	10.50			16.50	16.50			16.50	16.50			16.50	16.50
	64	5320	11.50	11.50	11.50	11.50				10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
802.11ax HE40 (MIMO)	54	5270	15.50	15.50	13.50	13.50				10.50	10.50			15.50	15.50			15.50	15.50			15.50	15.50
	62	5310	11.50	11.50	11.50	11.50				10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50
802.11ax HE80 (MIMO)	58	5290	11.50	11.50	11.50	11.50				10.50	10.50			11.50	11.50			11.50	11.50			11.50	11.50



Burst Average Power (dBm)																						
5.5GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (SISO)	100	5500	15.50				14.00				10.00				15.50				15.50			
	104	5520	19.00																			
	116	5580	19.00				14.00				10.00				19.00				19.00			
	124	5620	19.00				14.00				10.00				19.00				19.00			
	132	5660	18.00				14.00				10.00				18.00				18.00			
	136	5680	17.50																			
	140	5700	13.50																			
802.11n HT20 (SISO)	100	5500	15.00				14.00				10.00				15.00				15.00			
	104	5520	18.50																			
	116	5580	19.50				14.00				10.00				19.50				19.50			
	124	5620	19.50				14.00				10.00				19.50				19.50			
	132	5660	18.00				14.00				10.00				18.00				18.00			
	136	5680	16.50																			
	140	5700	11.50																			
802.11n HT40 (SISO)	102	5510	14.00				14.00				10.00				14.00				14.00			
	110	5550	18.00				14.00				10.00				18.00				18.00			
	126	5630	18.00				14.00				10.00				18.00				18.00			
	134	5670	15.00				14.00				10.00				15.00				15.00			
	142	5710	19.00				14.00				10.00				19.00				19.00			
802.11ac VHT20 (SISO)	100	5500	15.00				14.00				10.00				15.00				15.00			
	104	5520	18.50																			
	116	5580	19.50				14.00				10.00				19.50				19.50			
	124	5620	19.50				14.00				10.00				19.50				19.50			
	132	5660	18.00				14.00				10.00				18.00				18.00			
	136	5680	16.50																			
	140	5700	11.50																			
802.11ac VHT40 (SISO)	102	5510	14.00				14.00				10.00				14.00				14.00			
	110	5550	18.00				14.00				10.00				18.00				18.00			
	126	5630	18.00				14.00				10.00				18.00				18.00			
	134	5670	15.00				14.00				10.00				15.00				15.00			
	142	5710	19.00				14.00				10.00				19.00				19.00			
802.11ac VHT80 (SISO)	106	5530	11.50				11.50				10.00				11.50				11.50			
	122	5610	17.50				14.00				10.00				17.50				17.50			
	138	5690	19.00				14.00				10.00				19.00				19.00			
802.11ax HE20 (SISO)	100	5500	15.00				14.00				10.00				15.00				15.00			
	104	5520	18.50																			
	116	5580	19.50				14.00				10.00				19.50				19.50			
	124	5620	19.50				14.00				10.00				19.50				19.50			
	132	5660	18.00				14.00				10.00				18.00				18.00			
	136	5680	16.50																			
	140	5700	11.50																			
802.11ax HE40 (SISO)	102	5510	14.00				14.00				10.00				14.00				14.00			
	110	5550	18.00				14.00				10.00				18.00				18.00			
	126	5630	18.00				14.00				10.00				18.00				18.00			
	134	5670	15.00				14.00				10.00				15.00				15.00			
	142	5710	19.00				14.00				10.00				19.00				19.00			
802.11ax HE80 (SISO)	106	5530	11.50				11.50				10.00				11.50				11.50			
	122	5610	17.50				14.00				10.00				17.50				17.50			
	138	5690	19.00				14.00				10.00				19.00				19.00			



Burst Average Power (dBm)																						
5.5GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	100	5500	15.50	15.50	13.50	13.50			9.50	9.50			15.50	15.50			15.50	15.50			15.50	15.50
	104	5520	19.00	19.00																		
	116	5580	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.50	17.50
	124	5620	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.50	17.50
	132	5660	18.00	18.00	13.50	13.50			9.50	9.50			18.00	18.00			18.00	18.00			17.50	17.50
	136	5680	17.50	17.50																		
	140	5700	13.50	13.50																		
	144	5720	19.50	19.50	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.50	17.50
802.11n HT20 (MIMO)	100	5500	15.00	15.00	13.50	13.50			9.50	9.50			15.00	15.00			15.00	15.00			15.00	15.00
	104	5520	18.50	18.50																		
	116	5580	19.50	19.50	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.50	17.50
	124	5620	19.50	19.50	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.50	17.50
	132	5660	18.00	18.00	13.50	13.50			9.50	9.50			18.00	18.00			18.00	18.00			17.50	17.50
	136	5680	16.50	16.50																		
	140	5700	11.50	11.50																		
	144	5720	19.50	19.50	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.50	17.50
802.11n HT40 (MIMO)	102	5510	14.00	14.00	13.50	13.50			9.50	9.50			14.00	14.00			14.00	14.00			14.00	14.00
	110	5550	18.00	18.00	13.50	13.50			9.50	9.50			18.00	18.00			18.00	18.00			17.50	17.50
	126	5630	18.00	18.00	13.50	13.50			9.50	9.50			18.00	18.00			18.00	18.00			17.50	17.50
	134	5670	15.00	15.00	13.50	13.50			9.50	9.50			15.00	15.00			15.00	15.00			15.00	15.00
	142	5710	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.50	17.50
802.11ac VHT20 (MIMO)	100	5500	15.00	15.00	13.50	13.50			9.50	9.50			15.00	15.00			15.00	15.00			15.00	15.00
	104	5520	18.50	18.50																		
	116	5580	19.50	19.50	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.50	17.50
	124	5620	19.50	19.50	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.50	17.50
	132	5660	18.00	18.00	13.50	13.50			9.50	9.50			18.00	18.00			18.00	18.00			17.50	17.50
	136	5680	16.50	16.50																		
	140	5700	11.50	11.50																		
	144	5720	19.50	19.50	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.50	17.50
802.11ac VHT40 (MIMO)	102	5510	14.00	14.00	13.50	13.50			9.50	9.50			14.00	14.00			14.00	14.00			14.00	14.00
	110	5550	18.00	18.00	13.50	13.50			9.50	9.50			18.00	18.00			18.00	18.00			17.50	17.50
	126	5630	18.00	18.00	13.50	13.50			9.50	9.50			18.00	18.00			18.00	18.00			17.50	17.50
	134	5670	15.00	15.00	13.50	13.50			9.50	9.50			15.00	15.00			15.00	15.00			15.00	15.00
	142	5710	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.50	17.50
802.11ac VHT80 (MIMO)	106	5530	11.50	11.50	11.50	11.50			9.50	9.50			11.50	11.50			11.50	11.50			11.50	11.50
	122	5610	17.50	17.50	13.50	13.50			9.50	9.50			17.50	17.50			17.50	17.50			17.50	17.50
	138	5690	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.50	17.50
802.11ax HE20 (MIMO)	100	5500	15.00	15.00	13.50	13.50			9.50	9.50			15.00	15.00			15.00	15.00			15.00	15.00
	104	5520	18.50	18.50																		
	116	5580	19.50	19.50	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.50	17.50
	124	5620	19.50	19.50	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.50	17.50
	132	5660	18.00	18.00	13.50	13.50			9.50	9.50			18.00	18.00			18.00	18.00			17.50	17.50
	136	5680	16.50	16.50																		
	140	5700	11.50	11.50																		
	144	5720	19.50	19.50	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.50	17.50
802.11ax HE40 (MIMO)	102	5510	14.00	14.00	13.50	13.50			9.50	9.50			14.00	14.00			14.00	14.00			14.00	14.00
	110	5550	18.00	18.00	13.50	13.50			9.50	9.50			18.00	18.00			18.00	18.00			17.50	17.50
	126	5630	18.00	18.00	13.50	13.50			9.50	9.50			18.00	18.00			18.00	18.00			17.50	17.50
	134	5670	15.00	15.00	13.50	13.50			9.50	9.50			15.00	15.00			15.00	15.00			15.00	15.00
	142	5710	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.50	17.50
802.11ax HE80 (MIMO)	106	5530	11.50	11.50	11.50	11.50			9.50	9.50			11.50	11.50			11.50	11.50			11.50	11.50
	122	5610	17.50	17.50	13.50	13.50			9.50	9.50			17.50	17.50			17.50	17.50			17.50	17.50
	138	5690	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.50	17.50



Burst Average Power (dBm)																							
5.8GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
802.11a (SISO)	149	5745	20.00				14.50				10.50				20.00				18.00				
	157	5785	20.00				14.50				10.50				20.00				18.00				
	165	5825	20.00				14.50				10.50				20.00				18.00				
802.11n HT20 (SISO)	149	5745	20.00				14.50				10.50				20.00				18.00				
	157	5785	20.00				14.50				10.50				20.00				18.00				
	165	5825	20.00				14.50				10.50				20.00				18.00				
802.11n HT40 (SISO)	151	5755	19.00				14.50				10.50				19.00				18.00				
	159	5795	19.00				14.50				10.50				19.00				18.00				
802.11ac VHT20 (SISO)	149	5745	20.00				14.50				10.50				20.00				18.00				
	157	5785	20.00				14.50				10.50				20.00				18.00				
	165	5825	20.00				14.50				10.50				20.00				18.00				
802.11ac VHT40 (SISO)	151	5755	19.00				14.50				10.50				19.00				18.00				
	159	5795	19.00				14.50				10.50				19.00				18.00				
802.11ac VHT80 (SISO)	155	5775	17.50				14.50				10.50				17.50				17.50				
802.11ax HE20 (SISO)	149	5745	20.00				14.50				10.50				20.00				18.00				
	157	5785	20.00				14.50				10.50				20.00				18.00				
	165	5825	20.00				14.50				10.50				20.00				18.00				
802.11ax HE40 (SISO)	151	5755	19.00				14.50				10.50				19.00				18.00				
	159	5795	19.00				14.50				10.50				19.00				18.00				
802.11ax HE80 (SISO)	155	5775	17.50				14.50				10.50				17.50				17.50				

Burst Average Power (dBm)																							
5.8GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
802.11a (MIMO)	149	5745	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
	157	5785	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
	165	5825	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
802.11n HT20 (MIMO)	149	5745	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
	157	5785	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
	165	5825	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
802.11n HT40 (MIMO)	151	5755	19.00	19.00	13.50	13.50			9.00	9.00			19.00	19.00			18.00	18.00			15.50	15.50	
	159	5795	19.00	19.00	13.50	13.50			9.00	9.00			19.00	19.00			18.00	18.00			15.50	15.50	
802.11ac VHT20 (MIMO)	149	5745	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
	157	5785	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
	165	5825	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
802.11ac VHT40 (MIMO)	151	5755	19.00	19.00	13.50	13.50			9.00	9.00			19.00	19.00			18.00	18.00			15.50	15.50	
	159	5795	19.00	19.00	13.50	13.50			9.00	9.00			19.00	19.00			18.00	18.00			15.50	15.50	
802.11ac VHT80 (MIMO)	155	5775	17.50	17.50	13.50	13.50			9.00	9.00			17.50	17.50			17.50	17.50			15.50	15.50	
802.11ax HE20 (MIMO)	149	5745	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
	157	5785	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
	165	5825	20.00	20.00	13.50	13.50			9.00	9.00			20.00	20.00			18.00	18.00			15.50	15.50	
802.11ax HE40 (MIMO)	151	5755	19.00	19.00	13.50	13.50			9.00	9.00			19.00	19.00			18.00	18.00			15.50	15.50	
	159	5795	19.00	19.00	13.50	13.50			9.00	9.00			19.00	19.00			18.00	18.00			15.50	15.50	
802.11ax HE80 (MIMO)	155	5775	17.50	17.50	13.50	13.50			9.00	9.00			17.50	17.50			17.50	17.50			15.50	15.50	



Burst Average Power (dBm)																							
5.9GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9		
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
802.11a (SISO)	169	5845	20.00				14.50				11.00				19.50				19.50				
	173	5865	20.00				14.50				11.00				19.50				19.50				
	177	5885	20.00				14.50				11.00				19.50				19.50				
802.11n HT20 (SISO)	169	5845	20.00				14.50				11.00				19.50				19.50				
	173	5865	20.00				14.50				11.00				19.50				19.50				
	177	5885	18.50				14.50				11.00				18.50				18.50				
802.11n HT40 (SISO)	167	5835	19.00				14.50				11.00				19.00				19.00				
	175	5875	19.00				14.50				11.00				19.00				19.00				
802.11ac VHT20 (SISO)	169	5845	20.00				14.50				11.00				19.50				19.50				
	173	5865	20.00				14.50				11.00				19.50				19.50				
	177	5885	18.50				14.50				11.00				18.50				18.50				
802.11ac VHT40 (SISO)	167	5835	19.00				14.50				11.00				19.00				19.00				
	175	5875	19.00				14.50				11.00				19.00				19.00				
802.11ac VHT80 (SISO)	171	5855	17.50				14.50				11.00				17.50				17.50				
802.11ax HE20 (SISO)	169	5845	20.00				14.50				11.00				19.50				19.50				
	173	5865	20.00				14.50				11.00				19.50				19.50				
	177	5885	18.50				14.50				11.00				18.50				18.50				
802.11ax HE40 (SISO)	167	5835	19.00				14.50				11.00				19.00				19.00				
	175	5875	19.00				14.50				11.00				19.00				19.00				
802.11ax HE80 (SISO)	171	5855	17.50				14.50				11.00				17.50				17.50				

Burst Average Power (dBm)																						
5.9GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	169	5845	20.00	20.00	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.00	17.00
	173	5865	20.00	20.00	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.00	17.00
	177	5885	20.00	20.00	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.00	17.00
802.11n HT20 (MIMO)	169	5845	20.00	20.00	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.00	17.00
	173	5865	20.00	20.00	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.00	17.00
	177	5885	18.50	18.50	13.50	13.50			9.50	9.50			18.50	18.50			18.50	18.50			17.00	17.00
802.11n HT40 (MIMO)	167	5835	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.00	17.00
	175	5875	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.00	17.00
802.11ac VHT20 (MIMO)	169	5845	20.00	20.00	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.00	17.00
	173	5865	20.00	20.00	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.00	17.00
	177	5885	18.50	18.50	13.50	13.50			9.50	9.50			18.50	18.50			18.50	18.50			17.00	17.00
802.11ac VHT40 (MIMO)	167	5835	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.00	17.00
	175	5875	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.00	17.00
802.11ac VHT80 (MIMO)	171	5855	17.50	17.50	13.50	13.50			9.50	9.50			17.50	17.50			17.50	17.50			17.00	17.00
802.11ax HE20 (MIMO)	169	5845	20.00	20.00	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.00	17.00
	173	5865	20.00	20.00	13.50	13.50			9.50	9.50			19.50	19.50			19.50	19.50			17.00	17.00
	177	5885	18.50	18.50	13.50	13.50			9.50	9.50			18.50	18.50			18.50	18.50			17.00	17.00
802.11ax HE40 (MIMO)	167	5835	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.00	17.00
	175	5875	19.00	19.00	13.50	13.50			9.50	9.50			19.00	19.00			19.00	19.00			17.00	17.00
802.11ax HE80 (MIMO)	171	5855	17.50	17.50	13.50	13.50			9.50	9.50			17.50	17.50			17.50	17.50			17.00	17.00

Standard Power(SP)

Maximum Transmit Burst Average Power (dBm)						
6GHz Mode	Channel	Frequency (MHz)	Index 0			
			Ant 4	Ant 3	Ant 4	Ant 3
			SISO		MIMO	
802.11a	1	5955	17.50		17.50	17.50
	49	6195	19.00		19.00	19.00
	93	6415	19.00		19.00	19.00
	117	6535	19.00		19.00	19.00
	149	6695	19.00		19.00	19.00
	181	6855	19.00		19.00	19.00
802.11ax-HE20	1	5955	17.50		17.50	17.50
	49	6195	19.00		19.00	19.00
	93	6415	19.00		19.00	19.00
	117	6535	19.00		19.00	19.00
	149	6695	19.00		19.00	19.00
	181	6855	19.00		19.00	19.00
802.11ax-HE40	3	5965	16.00		16.00	16.00
	51	6205	19.00		19.00	19.00
	91	6405	19.00		19.00	19.00
	123	6565	19.00		19.00	19.00
	147	6685	19.00		19.00	19.00
	179	6845	19.00		19.00	19.00
802.11ax-HE80	7	5985	15.00		15.00	15.00
	55	6225	19.00		19.00	19.00
	87	6385	19.00		19.00	19.00
	135	6625	19.00		19.00	19.00
	151	6705	19.00		19.00	19.00
	167	6785	19.00		19.00	19.00



Burst Average Power (dBm)																				
6GHz Mode	Channel	Frequency (MHz)	Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (SISO)	1	5955			12.50				10.50				14.00				14.00			
	57	6235			12.50				10.50				14.00				14.00			
	173	6815			14.50				11.50				13.50				13.50			
802.11ax HE20 (SISO)	1	5955			12.50				10.50				14.00				14.00			
	57	6235			12.50				10.50				14.00				14.00			
	173	6815			14.50				11.50				13.50				13.50			
802.11ax HE40 (SISO)	3	5965			12.50				10.50				14.00				14.00			
	59	6245			12.50				10.50				14.00				14.00			
	171	6805			14.50				11.50				13.50				13.50			
802.11ax HE80 (SISO)	7	5985			12.50				10.50				14.00				14.00			
	71	6305			12.50				10.50				14.00				14.00			
	167	6785			14.50				11.50				13.50				13.50			

Burst Average Power (dBm)																				
6GHz Mode	Channel	Frequency (MHz)	Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	1	5955	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	57	6235	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	173	6815	14.50	14.50			14.50	14.50			11.00	11.00			11.00	11.00			11.00	11.00
802.11ax HE20 (MIMO)	1	5955	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	57	6235	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	173	6815	14.50	14.50			14.50	14.50			11.00	11.00			11.00	11.00			11.00	11.00
802.11ax HE40 (MIMO)	3	5965	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	59	6245	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	171	6805	14.50	14.50			14.50	14.50			11.00	11.00			11.00	11.00			11.00	11.00
802.11ax HE80 (MIMO)	7	5985	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	71	6305	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	167	6785	14.50	14.50			14.50	14.50			11.00	11.00			11.00	11.00			11.00	11.00



Low Power Indoor(LPI)

Maximum Transmit Burst Average Power (dBm)						
6GHz Mode	Channel	Frequency (MHz)	Index 0			
			Ant 4	Ant 3	Ant 4	Ant 3
			SISO		MIMO	
802.11a	1	5955	10.00		10.00	10.00
	49	6195	10.00		10.00	10.00
	93	6415	10.00		10.00	10.00
	97	6435	9.50		9.50	9.50
	105	6475	9.50		9.50	9.50
	113	6515	9.50		9.50	9.50
	117	6535	7.00		7.00	7.00
	149	6695	7.00		7.00	7.00
	181	6855	7.00		7.00	7.00
	185	6875	7.00		7.00	7.00
	189	6895	6.50		6.50	6.50
	209	6995	6.50		6.50	6.50
	229	7095	8.00		8.00	8.00
802.11ax-HE20	1	5955	10.00		10.00	10.00
	49	6195	10.00		10.00	10.00
	93	6415	10.00		10.00	10.00
	97	6435	9.50		9.50	9.50
	105	6475	9.50		9.50	9.50
	113	6515	9.50		9.50	9.50
	117	6535	7.50		7.50	7.50
	149	6695	7.00		7.00	7.00
	181	6855	7.50		7.50	7.50
	185	6875	7.50		7.50	7.50
	189	6895	7.50		7.50	7.50
	209	6995	7.50		7.50	7.50
	229	7095	8.50		8.50	8.50
802.11ax-HE40	3	5965	12.00		12.00	12.00
	51	6205	12.00		12.00	12.00
	91	6405	12.00		12.00	12.00
	99	6445	11.50		11.50	11.50
	107	6485	11.50		11.50	11.50
	115	6525	11.50		11.50	11.50
	123	6565	11.00		11.00	11.00
	147	6685	11.00		11.00	11.00
	179	6845	11.00		11.00	11.00
	187	6885	11.00		11.00	11.00
	195	6925	11.00		11.00	11.00
	211	7005	11.00		11.00	11.00
	227	7085	12.50		12.50	12.50
802.11ax-HE80	7	5985	15.50		15.50	15.50
	55	6225	15.50		15.50	15.50
	87	6385	15.50		15.50	15.50
	103	6465	16.00		16.00	16.00
	119	6545	16.00		16.00	16.00
	135	6625	14.00		14.00	14.00
	151	6705	14.00		14.00	14.00
	167	6785	14.00		14.00	14.00
	183	6865	14.00		14.00	14.00
	199	6945	13.50		13.50	13.50
	215	7025	14.50		14.50	14.50



Burst Average Power (dBm)																				
6GHz Mode	Channel	Frequency (MHz)	Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (SISO)	1	5955			10.00				10.00				10.00				10.00			
	57	6235			10.00				10.00				10.00				10.00			
	113	6515			9.50				9.50				9.50				9.50			
	173	6815			7.00				7.00				7.00				7.00			
802.11ax HE20 (SISO)	1	5955			10.00				10.00				10.00				10.00			
	57	6235			10.00				10.00				10.00				10.00			
	113	6515			9.50				9.50				9.50				9.50			
	173	6815			7.50				7.50				7.50				7.50			
802.11ax HE40 (SISO)	3	5965			12.00				10.50				12.00				12.00			
	59	6245			12.00				10.50				12.00				12.00			
	107	6485			11.50				11.50				11.50				11.50			
	171	6805			11.00				11.00				11.00				11.00			
	227	7085			12.50				12.50				12.50				12.50			
802.11ax HE80 (SISO)	7	5985			12.50				10.50				14.00				14.00			
	71	6305			12.50				10.50				14.00				14.00			
	119	6545			13.50				12.50				12.50				12.50			
	167	6785			14.00				11.50				13.50				13.50			
	215	7025			14.50				14.50				14.50				14.50			

Burst Average Power (dBm)																				
6GHz Mode	Channel	Frequency (MHz)	Index 1		Index 2		Index 3		Index 4		Index 5		Index 6		Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	1	5955	10.00	10.00			10.00	10.00			10.00	10.00			10.00	10.00			10.00	10.00
	57	6235	10.00	10.00			10.00	10.00			10.00	10.00			10.00	10.00			10.00	10.00
	113	6515	9.50	9.50			9.50	9.50			9.50	9.50			9.50	9.50			9.50	9.50
	173	6815	7.00	7.00			7.00	7.00			7.00	7.00			7.00	7.00			7.00	7.00
802.11ax HE20 (MIMO)	1	5955	10.00	10.00			10.00	10.00			10.00	10.00			10.00	10.00			10.00	10.00
	57	6235	10.00	10.00			10.00	10.00			10.00	10.00			10.00	10.00			10.00	10.00
	113	6515	9.50	9.50			9.50	9.50			9.50	9.50			9.50	9.50			9.50	9.50
	173	6815	7.50	7.50			7.50	7.50			7.50	7.50			7.50	7.50			7.50	7.50
802.11ax HE40 (MIMO)	3	5965	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	59	6245	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	107	6485	11.50	11.50			11.50	11.50			11.50	11.50			11.50	11.50			11.50	11.50
	171	6805	11.00	11.00			11.00	11.00			11.00	11.00			11.00	11.00			11.00	11.00
	227	7085	12.50	12.50			12.50	12.50			12.50	12.50			12.50	12.50			12.50	12.50
802.11ax HE80 (MIMO)	7	5985	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	71	6305	11.50	11.50			11.50	11.50			12.00	12.00			12.00	12.00			12.00	12.00
	119	6545	13.50	13.50			13.50	13.50			12.50	12.50			12.50	12.50			12.50	12.50
	167	6785	14.00	14.00			14.00	14.00			11.00	11.00			11.00	11.00			11.00	11.00
	215	7025	14.50	14.50			14.50	14.50			13.50	13.50			13.50	13.50			13.50	13.50

Very Low Power(VLP)

Maximum Transmit Burst Average Power (dBm)						
6GHz Mode	Channel	Frequency (MHz)	Index 0			
			Ant 4	Ant 3	Ant 4	Ant 3
			SISO		MIMO	
802.11a	1	5955	5.00		5.00	5.00
	49	6195	5.00		5.00	5.00
	93	6415	5.00		5.00	5.00
	117	6535	3.00		3.00	3.00
	149	6695	3.00		3.00	3.00
	181	6855	3.00		3.00	3.00
802.11ax-HE20	1	5955	5.00		5.00	5.00
	49	6195	5.50		5.50	5.50
	93	6415	6.00		6.00	6.00
	117	6535	3.00		3.00	3.00
	149	6695	3.00		3.00	3.00
	181	6855	3.00		3.00	3.00
802.11ax-HE40	3	5965	9.00		9.00	9.00
	51	6205	9.50		9.50	9.50
	91	6405	9.50		9.50	9.50
	123	6565	6.00		6.00	6.00
	147	6685	6.00		6.00	6.00
	179	6845	6.00		6.00	6.00
802.11ax-HE80	7	5985	11.50		11.50	11.50
	55	6225	12.00		12.00	12.00
	87	6385	12.00		12.00	12.00
	135	6625	8.50		8.50	8.50
	151	6705	8.50		8.50	8.50
	167	6785	8.50		8.50	8.50



Burst Average Power (dBm)								
6GHz Mode	Channel	Frequency (MHz)	Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (SISO)	1	5955			5.00			
	57	6235			5.00			
	173	6815			3.00			
802.11ax HE20 (SISO)	1	5955			5.00			
	57	6235			6.00			
	173	6815			3.00			
802.11ax HE40 (SISO)	3	5965			9.00			
	59	6245			9.50			
	171	6805			6.00			
802.11ax HE80 (SISO)	7	5985			11.50			
	71	6305			12.00			
	167	6785			8.50			

Burst Average Power (dBm)								
6GHz Mode	Channel	Frequency (MHz)	Index 7		Index 8		Index 9	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	1	5955	5.00	5.00			5.00	5.00
	57	6235	5.00	5.00			5.00	5.00
	173	6815	3.00	3.00			3.00	3.00
802.11ax HE20 (MIMO)	1	5955	5.00	5.00			5.00	5.00
	57	6235	6.00	6.00			6.00	6.00
	173	6815	3.00	3.00			3.00	3.00
802.11ax HE40 (MIMO)	3	5965	9.00	9.00			9.00	9.00
	59	6245	9.50	9.50			9.50	9.50
	171	6805	6.00	6.00			6.00	6.00
802.11ax HE80 (MIMO)	7	5985	11.50	11.50			11.50	11.50
	71	6305	12.00	12.00			12.00	12.00
	167	6785	8.50	8.50			8.50	8.50

<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 14 of this report. Full details about the proprietary power management decision are illustrated in the operational description.

Burst Average Power (dBm)												
Bluetooth Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4	
			Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
BR / EDR 1Mbps (SISO)	0	2402	20.00	18.50	9.50	9.50	20.00	18.50	20.00	18.50	15.00	15.00
	39	2441	20.50	18.50	9.50	9.50	20.50	18.50	20.50	18.50	15.00	15.00
	78	2480	20.00	20.00	9.50	9.50	20.00	20.00	20.00	20.00	15.00	15.00
BR / EDR 2Mbps (SISO)	0	2402	18.00	17.00	9.50	9.50	18.00	17.00	18.00	17.00	15.00	15.00
	39	2441	18.00	17.50	9.50	9.50	18.00	17.50	18.00	17.50	15.00	15.00
	78	2480	18.00	17.50	9.50	9.50	18.00	17.50	18.00	17.50	15.00	15.00
BR / EDR 3Mbps (SISO)	0	2402	18.00	17.00	9.50	9.50	18.00	17.00	18.00	17.00	15.00	15.00
	39	2441	18.00	17.50	9.50	9.50	18.00	17.50	18.00	17.50	15.00	15.00
	78	2480	18.00	17.50	9.50	9.50	18.00	17.50	18.00	17.50	15.00	15.00
LE 1Mbps (SISO)	0	2402	20.00	18.50	9.50	9.50	20.00	18.50	20.00	18.50	15.00	15.00
	19	2440	20.00	18.50	9.50	9.50	20.00	18.50	20.00	18.50	15.00	15.00
	39	2480	20.00	20.00	9.50	9.50	20.00	20.00	20.00	20.00	15.00	15.00
LE 2Mbps (SISO)	0	2402	20.00	18.50	9.50	9.50	20.00	18.50	20.00	18.50	15.00	15.00
	19	2440	20.50	18.50	9.50	9.50	20.50	18.50	20.50	18.50	15.00	15.00
	39	2480	20.00	20.00	9.50	9.50	20.00	20.00	20.00	20.00	15.00	15.00
BLE CS GFSK 1Mbps (SISO)	1	2404	20.50	18.50	9.50	9.50	20.50	18.50	20.50	18.50	15.00	15.00
	19	2440	20.50	18.50	9.50	9.50	20.50	18.50	20.50	18.50	15.00	15.00
	38	2478	20.00	20.00	9.50	9.50	20.00	20.00	20.00	20.00	15.00	15.00
BLE CS GFSK 2Mbps (SISO)	1	2404	20.50	18.50	9.50	9.50	20.50	18.50	20.50	18.50	15.00	15.00
	19	2440	20.50	18.50	9.50	9.50	20.50	18.50	20.50	18.50	15.00	15.00
	38	2478	20.00	19.50	9.50	9.50	20.00	19.50	20.00	19.50	15.00	15.00
BLE CS ASK 1Mbps (SISO)	2	2404	20.00	18.50	9.50	9.50	20.00	18.50	20.00	18.50	15.00	15.00
	38	2440	20.50	18.50	9.50	9.50	20.50	18.50	20.50	18.50	15.00	15.00
	76	2478	20.00	20.00	9.50	9.50	20.00	20.00	20.00	20.00	15.00	15.00
BLE CS ASK 2Mbps (SISO)	2	2404	20.50	18.50	9.50	9.50	20.50	18.50	20.50	18.50	15.00	15.00
	38	2440	20.50	18.50	9.50	9.50	20.50	18.50	20.50	18.50	15.00	15.00
	76	2478	20.00	20.00	9.50	9.50	20.00	20.00	20.00	20.00	15.00	15.00

2.3 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																							
FCC ID	A4RGXQ96																																																																						
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	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><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><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">≥ 1</td><td>≤ 5</td></tr></table>	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								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
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3																																																																							
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 12.																																																																						
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							
	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						
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5						
H	20643	848.3	20635	847.5	20625	846.5	20600	844						
LTE Band 7														
	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	20775	2502.5	20800	2505	20825	2507.5	20850	2510						
M	21100	2535	21100	2535	21100	2535	21100	2535						
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560						
LTE Band 12														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 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						
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5						
H	23173	715.3	23165	714.5	23155	713.5	23130	711						
LTE Band 13														
	Bandwidth 5 MHz				Bandwidth 10 MHz									
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)							
L	23205		779.5		23230		782							
M	23230		782											
H	23255		784.5											
LTE Band 14														
	Bandwidth 5 MHz				Bandwidth 10 MHz									
	Channel #		Channel #		Channel #		Freq.(MHz)							
L	23305		790.5		23330		793							
M	23330		793											
H	23355		795.5											
LTE Band 17														
	Bandwidth 5 MHz				Bandwidth 10 MHz									
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)							
L	23755		706.5		23780		709							
M	23790		710		23790		710							
H	23825		713.5		23800		711							

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			
	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		
M	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	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)	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)	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												
M	40620	2593	40620	2593	40620	2593	40620	2593				
H	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
M												
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)	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												
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)	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	A4RGXQ96							
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 n14 : 788 MHz ~ 798 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, 3450 MHz ~ 3550 MHz							
5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz								
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 n14: 5MHz, 10MHz							
	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/n78: 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 B5/12/13/14/48/71							
LTE Anchor Bands for n5	LTE B2/7/30/48/66							
LTE Anchor Bands for n7	LTE B5/12/13/71							
LTE Anchor Bands for n12	LTE B2/7/66							
LTE Anchor Bands for n25	LTE B12/13/26/48							
LTE Anchor Bands for n26	LTE B7							
LTE Anchor Bands for n30	LTE B5/12/14							
LTE Anchor Bands for n38	LTE B5/12/71							
LTE Anchor Bands for n41	LTE B2/5/12/26/66/71							
LTE Anchor Bands for n48	LTE B2/66/71							
LTE Anchor Bands for n66	LTE B5/12/13/14/48/71							
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 B2/4/5/7/12/13/25/26/38/41/66/71							
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 14																						
	Bandwidth 5MHz				Bandwidth 10MHz																	
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)															
L	158100		790.5		158600		793															
M	158600		793																			
H	159100		795.5																			
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																								
	Bandwidth 10MHz				Bandwidth 15MHz				Bandwidth 20MHz				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)		Ch. #		Freq. (MHz)									
L	339500		1697.5		340000		1700		340500		1702.5		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		13410		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_Part 270																								
	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_Part 270																								
	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_Part 27Q																								
	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 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 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 P_{limit} power levels in the table correspond to the burst average power levels which don't account for TX duty cycle.
3. UMTS, LTE and 5G NR TDD: P_{limit} power levels in the table correspond to the time-averaged power levels which accounts for TX duty cycle.
4. 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	Max Power condition	Head		Hotspot	Body-worn/Extremity		P Max Burst average power (dBm)
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	
			Index 1	Index 2	Index 3	Index 4	Index 5	Index 6	
			P limit						
			Burst average power (dBm)						
GSM850 GSM/GPRS 1TX	0	12.50%	32.50	37.50	33.80	34.20	35.30	34.20	32.50
GSM850 GPRS 2TX	0	25.00%	31.50	34.50	30.80	31.20	32.30	31.20	31.50
GSM850 GPRS 3TX	0	37.50%	30.50	32.70	29.00	29.40	30.50	29.40	30.50
GSM850 GPRS 4TX	0	50.00%	29.00	31.50	27.80	28.20	29.30	28.20	29.00
GSM850 EDGE 1TX	0	12.50%	27.00	37.50	33.80	34.20	35.30	34.20	27.00
GSM850 EDGE 2TX	0	25.00%	26.50	34.50	30.80	31.20	32.30	31.20	26.50
GSM850 EDGE 3TX	0	37.50%	26.50	32.70	29.00	29.40	30.50	29.40	26.50
GSM850 EDGE 4TX	0	50.00%	24.50	31.50	27.80	28.20	29.30	28.20	24.50
GSM850 GSM/GPRS 1TX	1	12.50%	32.00	30.00	27.90	31.20	34.30	31.20	32.00
GSM850 GPRS 2TX	1	25.00%	31.50	27.00	24.90	28.20	31.30	28.20	31.50
GSM850 GPRS 3TX	1	37.50%	29.50	25.20	23.10	26.40	29.50	26.40	29.50
GSM850 GPRS 4TX	1	50.00%	27.00	24.00	21.90	25.20	28.30	25.20	27.00
GSM850 EDGE 1TX	1	12.50%	26.50	30.00	27.90	31.20	34.30	31.20	26.50
GSM850 EDGE 2TX	1	25.00%	26.00	27.00	24.90	28.20	31.30	28.20	26.00
GSM850 EDGE 3TX	1	37.50%	26.00	25.20	23.10	26.40	29.50	26.40	26.00
GSM850 EDGE 4TX	1	50.00%	23.00	24.00	21.90	25.20	28.30	25.20	23.00
GSM1900 GSM/GPRS 1TX	2	12.50%	29.50	36.10	35.40	30.80	30.80	30.80	29.50
GSM1900 GPRS 2TX	2	25.00%	28.50	33.10	32.40	27.80	27.80	27.80	28.50
GSM1900 GPRS 3TX	2	37.50%	28.00	31.30	30.60	26.00	26.00	26.00	28.00
GSM1900 GPRS 4TX	2	50.00%	27.00	30.10	29.40	24.80	24.80	24.80	27.00
GSM1900 EDGE 1TX	2	12.50%	25.00	36.10	35.40	30.80	30.80	30.80	25.00
GSM1900 EDGE 2TX	2	25.00%	24.00	33.10	32.40	27.80	27.80	27.80	24.00
GSM1900 EDGE 3TX	2	37.50%	24.00	31.30	30.60	26.00	26.00	26.00	24.00
GSM1900 EDGE 4TX	2	50.00%	23.00	30.10	29.40	24.80	24.80	24.80	23.00
GSM1900 GSM/GPRS 1TX	0	12.50%	29.00	35.70	35.00	30.50	32.30	30.50	29.00
GSM1900 GPRS 2TX	0	25.00%	28.50	32.70	32.00	27.50	29.30	27.50	28.50
GSM1900 GPRS 3TX	0	37.50%	27.50	30.90	30.20	25.70	27.50	25.70	27.50
GSM1900 GPRS 4TX	0	50.00%	26.50	29.70	29.00	24.50	26.30	24.50	26.50
GSM1900 EDGE 1TX	0	12.50%	25.00	35.70	35.00	30.50	32.30	30.50	25.00
GSM1900 EDGE 2TX	0	25.00%	23.50	32.70	32.00	27.50	29.30	27.50	23.50
GSM1900 EDGE 3TX	0	37.50%	23.50	30.90	30.20	25.70	27.50	25.70	23.50
GSM1900 EDGE 4TX	0	50.00%	22.50	29.70	29.00	24.50	26.30	24.50	22.50

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

Wireless technology/ band (Accounting duty cycle)	Antenna	Duty cycle	Max Power condition	Head		Hotspot	Body-worn/Extremity		P Max Time-average power (dBm)
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	
			Index 1	Index 2	Index 3	Index 4	Index 5	Index 6	
			P limit						
			Time-average power (dBm)						
WCDMA B2	2	100.00%	24.70	25.70	23.50	21.10	21.10	21.10	24.70
WCDMA B2	0	100.00%	24.20	25.80	23.20	20.90	23.00	20.90	24.20
WCDMA B4	2	100.00%	24.70	26.70	24.50	21.30	21.30	21.30	24.70
WCDMA B4	0	100.00%	24.20	27.20	26.50	22.60	24.10	22.60	24.20
WCDMA B5	0	100.00%	24.70	28.30	24.00	24.50	25.90	24.50	24.70
WCDMA B5	1	100.00%	24.20	20.60	18.50	21.50	25.00	21.50	24.20
LTE Band 2	1	100.00%	24.70	15.30	13.50	17.70	20.50	17.70	24.70
LTE Band 2	5	100.00%	24.20	17.10	15.90	20.00	21.70	20.00	24.20
LTE Band 7	2	100.00%	24.70	24.70	22.70	20.30	20.60	20.60	24.70
LTE Band 7	0	100.00%	24.20	26.30	23.90	20.00	22.60	20.00	24.20
LTE Band 12/B17	0	100.00%	24.70	30.80	30.10	24.70	25.40	24.70	24.70
LTE Band 12/B17	1	100.00%	24.20	21.40	20.00	24.10	27.50	24.10	24.20
LTE Band 13	0	100.00%	24.70	29.30	28.60	24.20	26.20	24.30	24.70
LTE Band 13	1	100.00%	24.70	21.40	19.60	22.20	25.70	22.20	24.70
LTE Band 14	0	100.00%	24.70	29.00	24.60	24.10	25.90	24.60	24.70
LTE Band 14	1	100.00%	24.70	21.10	19.70	22.40	25.80	22.40	24.70
LTE Band 25/B2	2	100.00%	24.70	27.00	26.30	21.20	21.20	21.20	24.70
LTE Band 25/B2	0	100.00%	24.20	26.80	24.10	21.70	22.40	21.70	24.20
LTE Band 26/B5	0	100.00%	24.70	28.30	24.40	24.50	25.80	25.10	24.70
LTE Band 26/B5	1	100.00%	24.20	20.40	18.30	21.70	25.40	21.70	24.20
LTE Band 30	2	100.00%	24.70	26.40	24.30	20.50	20.50	20.50	24.70
LTE Band 30	0	100.00%	24.20	28.60	27.90	23.60	24.60	23.60	24.20
LTE Band 41/B38 PC3	2	63.30%	22.70	24.10	22.00	20.30	20.70	20.70	22.70
LTE Band 41/B38 PC2	2	43.30%	22.90	24.10	22.00	20.30	20.70	20.70	22.90
LTE Band 41/B38 PC3	0	63.30%	22.20	28.30	27.60	20.60	23.50	20.60	22.20
LTE Band 41/B38 PC2	0	43.30%	22.40	28.30	27.60	20.60	23.50	20.60	22.40
LTE Band 48 PC3	6	63.30%	21.60	25.40	24.70	19.90	19.90	19.90	21.60
LTE Band 48 PC3	2	63.30%	21.50	23.80	23.10	19.10	20.20	20.20	21.50
LTE Band 66/B4	2	100.00%	24.70	27.90	27.20	21.40	21.40	21.40	24.70
LTE Band 66/B4	0	100.00%	24.20	27.50	26.80	22.40	23.70	22.40	24.20
LTE Band 66	1	100.00%	24.70	15.30	14.50	19.30	21.60	19.30	24.70
LTE Band 66	5	100.00%	24.20	18.70	17.50	22.10	22.10	22.10	24.20
LTE Band 71	0	100.00%	24.70	31.10	30.40	26.40	27.10	26.40	24.70
LTE Band 71	1	100.00%	24.20	21.50	19.30	26.60	27.30	26.60	24.20

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

Wireless technology/ band (Accounting duty cycle)	Antenna	Duty cycle	Max Power condition	Head		Hotspot	Body-worn/Extremity		P Max Time-average power (dBm)	
			Index 1	Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous		
				Index 2	Index 3	Index 4	Index 5	Index 6		
				P limit						
				Time-average power (dBm)						
FR1 n7	2	100.00%	24.70	24.40	22.90	20.30	21.00	20.30	24.70	
FR1 n7	0	100.00%	24.20	26.30	23.80	19.60	22.60	19.60	24.20	
FR1 n12	0	100.00%	24.70	29.60	28.90	24.90	25.60	24.90	24.70	
FR1 n12	1	100.00%	24.20	21.10	19.50	27.30	28.00	27.30	24.20	
FR1 n14	0	100.00%	24.70	29.10	24.20	24.30	25.90	24.30	24.70	
FR1 n14	1	100.00%	24.70	21.30	20.10	23.00	26.50	23.00	24.70	
FR1 n25/n2	2	100.00%	24.70	25.40	23.30	21.10	21.10	21.10	24.70	
FR1 n25/n2	0	100.00%	24.20	25.80	23.30	21.60	23.00	21.60	24.20	
FR1 n26/n5	0	100.00%	24.70	29.00	24.50	24.70	25.40	24.70	24.70	
FR1 n26/n5	1	100.00%	24.20	20.50	18.80	22.10	25.60	22.10	24.20	
FR1 n30	2	100.00%	24.70	26.40	24.30	20.00	20.70	20.00	24.70	
FR1 n30	0	100.00%	24.20	28.80	28.10	23.00	24.60	23.00	24.20	
FR1 n41/n38 PC3	2	100.00%	24.70	24.50	22.50	20.60	20.70	20.70	24.70	
FR1 n41 PC2	2	50.00%	23.50	24.50	22.50	20.60	20.70	20.70	23.50	
FR1 n41 PC1.5	2	25.00%	20.50	24.50	22.50	20.60	20.70	20.70	20.50	
FR1 n41/n38 PC3	0	100.00%	24.20	27.40	26.70	20.90	23.40	20.90	24.20	
FR1 n41 PC2	0	50.00%	23.00	27.40	26.70	20.90	23.40	20.90	23.00	
FR1 n41 PC1.5	0	25.00%	20.00	27.40	26.70	20.90	23.40	20.90	20.00	
FR1 n41 PC3	1	100.00%	24.20	14.90	13.60	18.30	21.40	18.30	24.20	
FR1 n41 PC2	1	50.00%	23.00	14.90	13.60	18.30	21.40	18.30	23.00	
FR1 n41 PC1.5	1	25.00%	20.00	14.90	13.60	18.30	21.40	18.30	20.00	
FR1 n41 PC3	5	100.00%	23.70	15.60	14.60	18.70	21.10	18.70	23.70	
FR1 n41 PC2	5	50.00%	22.50	15.60	14.60	18.70	21.10	18.70	22.50	
FR1 n41 PC1.5	5	25.00%	19.50	15.60	14.60	18.70	21.10	18.70	19.50	
FR1 n48 PC3	6	100.00%	23.60	25.90	25.20	19.30	19.30	19.30	23.60	
FR1 n48 PC3	2	100.00%	23.50	24.80	22.10	18.40	19.90	19.90	23.50	
FR1 n48 PC3	1	100.00%	23.60	15.20	13.10	20.20	20.20	20.20	23.60	
FR1 n48 PC3	5	100.00%	23.50	14.90	14.20	19.60	21.60	19.60	23.50	
FR1 n66	2	100.00%	24.70	26.80	26.10	21.70	21.70	21.70	24.70	
FR1 n66	0	100.00%	24.20	26.70	26.00	21.70	24.00	21.70	24.20	
FR1 n70	2	100.00%	24.70	25.30	24.60	22.10	22.10	22.10	24.70	
FR1 n70	0	100.00%	24.20	28.30	27.60	20.40	23.50	20.40	24.20	
FR1 n71	0	100.00%	24.70	30.90	30.20	25.80	26.50	25.80	24.70	
FR1 n71	1	100.00%	24.20	22.30	20.70	26.80	27.50	26.80	24.20	
FR1 n77/n78 PC3	6	100.00%	24.70	26.20	23.30	19.80	19.80	19.80	24.70	
FR1 n77/n78 PC2	6	50.00%	23.20	26.20	23.30	19.80	19.80	19.80	23.20	
FR1 n77/n78 PC1.5	6	25.00%	20.20	26.20	23.30	19.80	19.80	19.80	20.20	
FR1 n77/n78 PC3	2	100.00%	24.20	24.10	22.00	18.50	20.00	20.00	24.20	
FR1 n77/n78 PC2	2	50.00%	22.70	24.10	22.00	18.50	20.00	20.00	22.70	
FR1 n77/n78 PC1.5	2	25.00%	19.70	24.10	22.00	18.50	20.00	20.00	19.70	
FR1 n77/n78 PC3	1	100.00%	24.70	14.50	12.60	18.60	20.60	18.60	24.70	
FR1 n77/n78 PC2	1	50.00%	23.00	14.50	12.60	18.60	20.60	18.60	23.00	
FR1 n77/n78 PC1.5	1	25.00%	20.00	14.50	12.60	18.60	20.60	18.60	20.00	
FR1 n77/n78 PC3	5	100.00%	24.20	14.60	13.90	20.70	21.90	20.70	24.20	
FR1 n77/n78 PC2	5	50.00%	22.50	14.60	13.90	20.70	21.90	20.70	22.50	
FR1 n77/n78 PC1.5	5	25.00%	19.50	14.60	13.90	20.70	21.90	20.70	19.50	

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.

4.3 RF Exposure limit for above 6GHz

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:

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

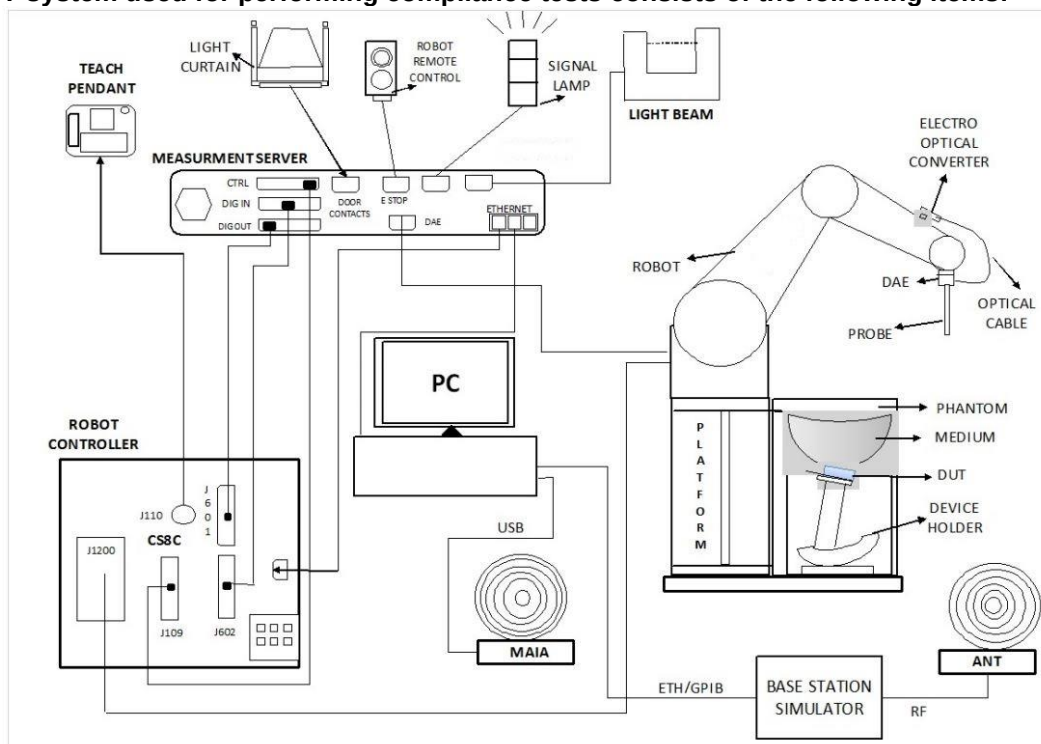
SAR is expressed in units of Watts per kilogram (W/kg)

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

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.

Laboratory	EMC & Wireless Communications Laboratory		Wensan Laboratory					
Test Site Location	TW1190 No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		TW3786 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	SAR18-HY	SAR21-HY	
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY	SAR19-HY	SAR22-HY	
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY	SAR20-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	4 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	4 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.

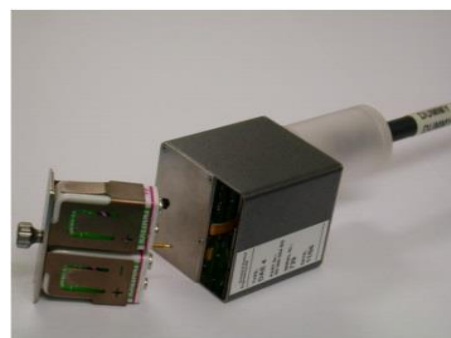


Fig 5.1 Photo of DAE

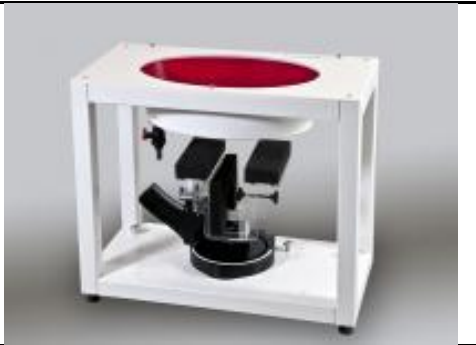
7.4 Phantom

<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 dB) 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.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

8.4 Zoom Scan

Zoom scans are used to 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 whose 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: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 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: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: 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
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
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.				
* 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.				

8.5 Volume Scan Procedures

The volume scan is used to 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	1107	Jun. 22, 2022	Jun. 19, 2025
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	4d167	Nov. 24, 2022	Nov. 22, 2024
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1112	Jun. 22, 2022	Jun. 19, 2025
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d185	Jun. 17, 2022	Jun. 14, 2025
SPEAG	2300MHz System Validation Kit ⁽²⁾	D2300V2	1006	Jan. 18, 2022	Jan. 15, 2025
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	929	Nov. 21, 2022	Nov. 18, 2025
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1078	Jun. 23, 2022	Jun. 20, 2025
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1014	Jan. 17, 2022	Jan. 14, 2025
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1036	Mar. 23, 2022	Mar. 20, 2025
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1006	Jun. 20, 2022	Jun. 17, 2025
SPEAG	3700MHz System Validation Kit	D3700V2	1022	Jul. 10, 2024	Jul. 09, 2025
SPEAG	3900MHz System Validation Kit ⁽²⁾	D3900V2	1092	May. 15, 2023	May. 13, 2025
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1006	May. 25, 2023	May. 23, 2025
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1128	Feb. 22, 2023	Feb. 20, 2025
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1083	Oct. 20, 2023	Oct. 19, 2024
SPEAG	13MHz System Validation Kit ⁽²⁾	CLA13	1022	Sep. 01, 2022	Aug. 30, 2024
SPEAG	5G Verification Source	10GHz	1052	Oct. 13, 2023	Oct. 12, 2024
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9461	Oct. 12, 2023	Oct. 11, 2024
SPEAG	Data Acquisition Electronics	DAE4	661	May. 16, 2024	May. 15, 2025
SPEAG	Data Acquisition Electronics	DAE4	699	Feb. 13, 2024	Feb. 12, 2025
SPEAG	Data Acquisition Electronics	DAE4	1697	Nov. 20, 2023	Nov. 19, 2024
SPEAG	Data Acquisition Electronics	DAE4	1776	Feb. 13, 2024	Feb. 12, 2025
SPEAG	Data Acquisition Electronics	DAE4	1805	May. 22, 2024	May. 21, 2025
SPEAG	Data Acquisition Electronics	DAE4ip	1800	Jun. 18, 2024	Jun. 17, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Oct. 24, 2023	Oct. 23, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7590	Mar. 19, 2024	Mar. 18, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7625	Dec. 14, 2023	Dec. 13, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7694	Oct. 26, 2023	Oct. 25, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7785	Nov. 23, 2023	Nov. 22, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7813	May. 30, 2024	May. 29, 2025
Testo	Hygro meter	608-H1	45196600	Nov. 02, 2023	Nov. 01, 2024
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Nov. 13, 2023	Nov. 12, 2024
Keysight	5G Wireless Test Platform	E7515B	MY58300712	Apr. 22, 2024	Apr. 21, 2025
R&S	BT Base Station	CBT	101136	Oct. 22, 2023	Oct. 21, 2024
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 27, 2023	Sep. 26, 2024
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 30, 2023	Oct. 29, 2024
SPEAG	Dielectric Probe Kit	DAK-3.5	1270	May. 21, 2024	May. 20, 2025
SPEAG	Dielectric Probe Kit	DAK-12	1169	Aug. 24, 2023	Aug. 23, 2024
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3632	Sep. 04, 2023	Sep. 03, 2024
Anritsu	Power Meter	ML2495A	1804003	Oct. 17, 2023	Oct. 16, 2024
Anritsu	Power Sensor	MA2411B	1726150	Oct. 17, 2023	Oct. 16, 2024
Anritsu	Spectrum Analyzer	N9010A	MY53470118	Jan. 10, 2024	Jan. 09, 2025
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 16, 2023	Oct. 15, 2024
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-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 $\pm 2^\circ\text{C}$ 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	0.909	42.200	0.89	41.90	2.13	0.72	± 5	2024/7/17
750	22.3	0.888	42.300	0.89	41.90	-0.22	0.95	± 5	2024/7/25
750	22.2	0.885	42.400	0.89	41.90	-0.56	1.19	± 5	2024/7/26
750	22.5	0.883	41.700	0.89	41.90	-0.79	-0.48	± 5	2024/7/26
750	22.7	0.883	42.300	0.89	41.90	-0.79	0.95	± 5	2024/7/27
750	22.2	0.893	42.900	0.89	41.90	0.34	2.39	± 5	2024/8/2
750	22.3	0.888	41.700	0.89	41.90	-0.22	-0.48	± 5	2024/8/3
750	22.3	0.885	42.300	0.89	41.90	-0.56	0.95	± 5	2024/8/10
750	22.5	0.883	41.8	0.89	41.90	-0.79	-0.24	± 5	2024/8/29
750	22.3	0.906	42.4	0.89	41.90	1.80	1.19	± 5	2024/8/30
835	22.5	0.926	42.100	0.90	41.50	2.89	1.45	± 5	2024/7/22
835	22.2	0.919	42.100	0.90	41.50	2.11	1.45	± 5	2024/7/26
835	22.5	0.921	41.300	0.90	41.50	2.33	-0.48	± 5	2024/7/26
835	22.5	0.924	41.600	0.90	41.50	2.67	0.24	± 5	2024/7/28
835	22.1	0.928	42.700	0.90	41.50	3.11	2.89	± 5	2024/7/31
835	22.2	0.928	42.600	0.90	41.50	3.11	2.65	± 5	2024/8/2
835	22.5	0.925	41.600	0.90	41.50	2.78	0.24	± 5	2024/8/4
835	22.3	0.918	42	0.90	41.50	2.00	1.20	± 5	2024/8/10
835	22.5	0.916	41.5	0.90	41.50	1.78	0.00	± 5	2024/8/29
835	22.3	0.941	42.1	0.90	41.50	4.56	1.45	± 5	2024/8/30
1750	22.5	1.350	40.800	1.37	40.10	-1.46	1.75	± 5	2024/7/18
1750	22.5	1.370	40.700	1.37	40.10	0.00	1.50	± 5	2024/7/18
1750	22.7	1.370	40.700	1.37	40.10	0.00	1.50	± 5	2024/7/27
1750	22.5	1.370	41.000	1.37	40.10	0.00	2.24	± 5	2024/7/29
1750	22.5	1.380	41.000	1.37	40.10	0.73	2.24	± 5	2024/7/30
1750	22.5	1.360	40.600	1.37	40.10	-0.73	1.25	± 5	2024/8/3
1750	22.7	1.360	40.800	1.37	40.10	-0.73	1.75	± 5	2024/8/5
1750	22.5	1.350	40.600	1.37	40.10	-1.46	1.25	± 5	2024/8/6
1750	22.3	1.38	40.9	1.37	40.10	0.73	2.00	± 5	2024/8/13
1750	22.6	1.35	40.7	1.37	40.10	-1.46	1.50	± 5	2024/8/30
1750	22.4	1.36	40.6	1.37	40.10	-0.73	1.25	± 5	2024/8/31
1900	22.5	1.390	40.400	1.40	40.00	-0.71	1.00	± 5	2024/7/18
1900	22.7	1.380	40.500	1.40	40.00	-1.43	1.25	± 5	2024/7/27
1900	22.5	1.440	41.200	1.40	40.00	2.86	3.00	± 5	2024/7/29
1900	22.4	1.430	38.700	1.40	40.00	2.14	-3.25	± 5	2024/8/1
1900	22.5	1.430	39.000	1.40	40.00	2.14	-2.50	± 5	2024/8/3
1900	22.7	1.440	39.300	1.40	40.00	2.86	-1.75	± 5	2024/8/5
1900	22.5	1.440	38.500	1.40	40.00	2.86	-3.75	± 5	2024/8/7
1900	22.6	1.43	39.2	1.40	40.00	2.14	-2.00	± 5	2024/8/30
1900	22.4	1.44	39	1.40	40.00	2.86	-2.50	± 5	2024/8/31
2300	22.5	1.670	40.200	1.67	39.50	0.00	1.77	± 5	2024/7/25
2300	22.3	1.670	40.600	1.67	39.50	0.00	2.78	± 5	2024/8/1



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2300	22.4	1.620	39.300	1.67	39.50	-2.99	-0.51	±5	2024/8/4
2300	22.2	1.680	38.900	1.67	39.50	0.60	-1.52	±5	2024/8/12
2300	22.3	1.66	38.8	1.67	39.50	-0.60	-1.77	±5	2024/8/30
2600	22.5	1.970	38.100	1.96	39.00	0.51	-2.31	±5	2024/7/22
2600	22.4	1.940	38.500	1.96	39.00	-1.02	-1.28	±5	2024/7/24
2600	22.5	1.980	38.900	1.96	39.00	1.02	-0.26	±5	2024/7/25
2600	22.9	1.900	38.500	1.96	39.00	-3.06	-1.28	±5	2024/7/29
2600	22.6	1.980	38.100	1.96	39.00	1.02	-2.31	±5	2024/8/2
2600	22.5	1.990	38.700	1.96	39.00	1.53	-0.77	±5	2024/8/4
2600	22.4	1.930	38.100	1.96	39.00	-1.53	-2.31	±5	2024/8/4
2600	22.6	1.980	38.700	1.96	39.00	1.02	-0.77	±5	2024/8/11
2600	22.2	1.91	38.3	1.96	39.00	-2.55	-1.79	±5	2024/8/12
2600	22.3	1.89	37.7	1.96	39.00	-3.57	-3.33	±5	2024/8/30
2600	22.5	1.95	38.4	1.96	39.00	-0.51	-1.54	±5	2024/8/31
3500	22.5	2.980	38.700	2.91	37.90	2.41	2.11	±5	2024/7/16
3500	22.5	2.990	38.400	2.91	37.90	2.75	1.32	±5	2024/7/23
3500	22.5	2.940	37.900	2.91	37.90	1.03	0.00	±5	2024/7/30
3500	22.3	2.960	38.000	2.91	37.90	1.72	0.26	±5	2024/8/3
3500	22.4	2.950	38.100	2.91	37.90	1.37	0.53	±5	2024/8/4
3500	22.4	3.010	37.800	2.91	37.90	3.44	-0.26	±5	2024/8/7
3500	22.4	3.020	37.600	2.91	37.90	3.78	-0.79	±5	2024/8/8
3500	22.4	2.990	37.700	2.91	37.90	2.75	-0.53	±5	2024/8/8
3500	22.5	2.910	37.800	2.91	37.90	0.00	-0.26	±5	2024/8/9
3500	22.4	2.980	37.500	2.91	37.90	2.41	-1.06	±5	2024/8/9
3500	22.3	2.88	37.2	2.91	37.90	-1.03	-1.85	±5	2024/8/10
3500	22.4	2.94	37.4	2.91	37.90	1.03	-1.32	±5	2024/8/19
3500	22.3	2.93	37.7	2.91	37.90	0.69	-0.53	±5	2024/8/21
3500	22.4	3.01	37.8	2.91	37.90	3.44	-0.26	±5	2024/8/31
3700	22.5	3.190	38.500	3.12	37.70	2.24	2.12	±5	2024/7/16
3700	22.5	3.200	38.200	3.12	37.70	2.56	1.33	±5	2024/7/23
3700	22.5	3.100	37.700	3.12	37.70	-0.64	0.00	±5	2024/7/30
3700	22.3	3.150	37.700	3.12	37.70	0.96	0.00	±5	2024/8/3
3700	22.4	3.160	37.800	3.12	37.70	1.28	0.27	±5	2024/8/4
3700	22.4	3.2	37.5	3.12	37.70	2.56	-0.53	±5	2024/8/7
3700	22.4	3.200	37.300	3.12	37.70	2.56	-1.06	±5	2024/8/8
3700	22.4	3.180	37.400	3.12	37.70	1.92	-0.80	±5	2024/8/8
3700	22.5	3.090	37.500	3.12	37.70	-0.96	-0.53	±5	2024/8/9
3700	22.4	3.170	37.200	3.12	37.70	1.60	-1.33	±5	2024/8/9
3700	22.3	3.07	36.9	3.12	37.70	-1.60	-2.12	±5	2024/8/10
3700	22.4	3.12	37.1	3.12	37.70	0.00	-1.59	±5	2024/8/19
3700	22.3	3.14	37.5	3.12	37.70	0.64	-0.53	±5	2024/8/21
3700	22.4	3.2	37.5	3.12	37.70	2.56	-0.53	±5	2024/8/31
3900	22.5	3.420	38.000	3.33	37.51	2.70	1.31	±5	2024/7/23
3900	22.5	3.270	37.400	3.33	37.51	-1.80	-0.29	±5	2024/7/30
3900	22.3	3.350	37.400	3.33	37.51	0.60	-0.29	±5	2024/8/3
3900	22.4	3.370	37.700	3.33	37.51	1.20	0.51	±5	2024/8/4
3900	22.4	3.4	37.2	3.33	37.51	2.10	-0.83	±5	2024/8/7
3900	22.4	3.39	37.1	3.33	37.51	1.80	-1.09	±5	2024/8/8
3900	22.4	3.37	37	3.33	37.51	1.20	-1.36	±5	2024/8/9
3900	22.3	3.26	36.6	3.33	37.51	-2.10	-2.43	±5	2024/8/10
3900	22.4	3.41	37.2	3.33	37.51	2.40	-0.83	±5	2024/8/31
2450	22.5	1.820	39.800	1.80	39.20	1.11	1.53	±5	2024/8/1
2450	22.6	1.830	39.100	1.80	39.20	1.67	-0.26	±5	2024/8/6
2450	22.2	1.830	38.900	1.80	39.20	1.67	-0.77	±5	2024/8/7
2450	22.5	1.770	39.000	1.80	39.20	-1.67	-0.51	±5	2024/8/9
2450	22.4	1.780	39.000	1.80	39.20	-1.11	-0.51	±5	2024/8/14



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5250	22.5	4.590	35.600	4.71	35.95	-2.55	-0.97	±5	2024/7/26
5250	22.7	4.550	35.400	4.71	35.95	-3.40	-1.53	±5	2024/7/27
5250	22.5	4.720	36.600	4.71	35.95	0.21	1.81	±5	2024/8/2
5250	22.2	4.670	36.400	4.71	35.95	-0.85	1.25	±5	2024/8/4
5250	22.5	4.690	36.500	4.71	35.95	-0.42	1.53	±5	2024/8/9
5250	22.7	4.740	36.700	4.71	35.95	0.64	2.09	±5	2024/8/10
5250	22.1	4.610	36.200	4.71	35.95	-2.12	0.70	±5	2024/8/10
5250	22.5	4.600	35.200	4.71	35.95	-2.34	-2.09	±5	2024/8/11
5250	22.7	4.730	36.600	4.71	35.95	0.42	1.81	±5	2024/8/12
5250	22.2	4.790	37.000	4.71	35.95	1.70	2.92	±5	2024/8/12
5250	22.6	4.680	36.900	4.71	35.95	-0.64	2.64	±5	2024/8/13
5250	22.5	4.570	35.500	4.71	35.95	-2.97	-1.25	±5	2024/8/15
5600	22.5	4.990	35.000	5.07	35.50	-1.58	-1.41	±5	2024/7/26
5600	22.7	4.940	34.800	5.07	35.50	-2.56	-1.97	±5	2024/7/27
5600	22.5	5.060	36.100	5.07	35.50	-0.20	1.69	±5	2024/8/3
5600	22.5	5.160	36.400	5.07	35.50	1.78	2.54	±5	2024/8/5
5600	22.5	5.070	35.500	5.07	35.50	0.00	0.00	±5	2024/8/8
5600	22.5	5.060	36.000	5.07	35.50	-0.20	1.41	±5	2024/8/9
5600	22.7	5.110	36.200	5.07	35.50	0.79	1.97	±5	2024/8/10
5600	22.1	4.940	35.700	5.07	35.50	-2.56	0.56	±5	2024/8/10
5600	22.5	4.990	34.600	5.07	35.50	-1.58	-2.54	±5	2024/8/11
5600	22.7	5.100	36.000	5.07	35.50	0.59	1.41	±5	2024/8/12
5600	22.2	5.190	36.400	5.07	35.50	2.37	2.54	±5	2024/8/12
5600	22.6	5.060	36.300	5.07	35.50	-0.20	2.25	±5	2024/8/13
5600	22.5	4.950	34.900	5.07	35.50	-2.37	-1.69	±5	2024/8/15
5750	22.5	5.170	34.700	5.22	35.35	-0.96	-1.84	±5	2024/7/26
5750	22.7	5.120	34.500	5.22	35.35	-1.92	-2.40	±5	2024/7/27
5800	22.4	5.320	34.800	5.27	35.30	0.95	-1.42	±5	2024/7/29
5800	22.2	5.210	35.600	5.27	35.30	-1.14	0.85	±5	2024/8/4
5800	22.5	5.380	36.100	5.27	35.30	2.09	2.27	±5	2024/8/5
5800	22.5	5.220	35.600	5.27	35.30	-0.95	0.85	±5	2024/8/8
5800	22.5	5.280	35.700	5.27	35.30	0.19	1.13	±5	2024/8/9
5800	22.7	5.330	35.900	5.27	35.30	1.14	1.70	±5	2024/8/10
5800	22.1	5.140	35.400	5.27	35.30	-2.47	0.28	±5	2024/8/10
5800	22.5	5.230	34.200	5.27	35.30	-0.76	-3.12	±5	2024/8/11
5800	22.7	5.310	35.800	5.27	35.30	0.76	1.42	±5	2024/8/12
5800	22.2	5.410	36.100	5.27	35.30	2.66	2.27	±5	2024/8/12
5800	22.6	5.270	36.100	5.27	35.30	0.00	2.27	±5	2024/8/13
5800	22.5	5.190	34.500	5.27	35.30	-1.52	-2.27	±5	2024/8/15
6500	22.5	6.090	34.600	6.07	34.50	0.33	0.29	±5	2024/7/25
6500	22.5	6.120	34.700	6.07	34.50	0.82	0.58	±5	2024/7/28
6500	22.5	6.140	34.900	6.07	34.50	1.15	1.16	±5	2024/8/3
6500	22.5	6.170	34.900	6.07	34.50	1.65	1.16	±5	2024/8/19
6500	22.1	6.020	34.700	6.07	34.50	-0.82	0.58	±5	2024/8/21
6500	22.2	6.100	34.400	6.07	34.50	0.49	-0.29	±5	2024/8/22
6500	22.4	6.070	34.400	6.07	34.50	0.00	-0.29	±5	2024/8/20
6500	22.5	5.830	35.400	6.07	34.50	-3.95	2.61	±5	2024/8/25
13	22.4	0.728	54.573	0.75	55.00	-2.93	-0.78	±5	2024/8/20

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 (%)
SAR-21	2024/7/17	750	50	D750V3-1107	EX3DV4 - SN7813	DAE4 Sn1805	0.440	8.540	8.8	3.04
SAR-19	2024/7/25	750	50	D750V3-1107	EX3DV4 - SN7694	DAE4 Sn661	0.421	8.540	8.42	-1.41
SAR-18	2024/7/26	750	50	D750V3-1107	EX3DV4 - SN7785	DAE4ip Sn1800	0.432	8.540	8.64	1.17
SAR-21	2024/7/26	750	50	D750V3-1107	EX3DV4 - SN7813	DAE4 Sn1805	0.422	8.540	8.44	-1.17
SAR-18	2024/7/27	750	50	D750V3-1107	EX3DV4 - SN7785	DAE4ip Sn1800	0.426	8.540	8.52	-0.23
SAR-19	2024/8/2	750	50	D750V3-1107	EX3DV4 - SN7694	DAE4 Sn661	0.427	8.540	8.54	0.00
SAR-21	2024/8/3	750	50	D750V3-1107	EX3DV4 - SN7813	DAE4 Sn1805	0.433	8.540	8.66	1.41
SAR-19	2024/8/10	750	50	D750V3-1107	EX3DV4 - SN7694	DAE4 Sn661	0.424	8.540	8.48	-0.70
SAR-20	2024/8/29	750	50	D750V3-1107	EX3DV4 - SN7590	DAE4 Sn1776	0.417	8.540	8.34	-2.34
SAR-16	2024/8/30	750	50	D750V3-1107	EX3DV4 - SN3931	DAE4 Sn699	0.396	8.540	7.92	-7.26
SAR-19	2024/7/22	835	50	D835V2-4d167	EX3DV4 - SN7694	DAE4 Sn661	0.512	9.800	10.24	4.49
SAR-18	2024/7/26	835	50	D835V2-4d167	EX3DV4 - SN7785	DAE4ip Sn1800	0.526	9.800	10.52	7.35
SAR-21	2024/7/26	835	50	D835V2-4d167	EX3DV4 - SN7813	DAE4 Sn1805	0.527	9.800	10.54	7.55
SAR-21	2024/7/28	835	50	D835V2-4d167	EX3DV4 - SN7813	DAE4 Sn1805	0.536	9.800	10.72	9.39
SAR-18	2024/7/31	835	50	D835V2-4d167	EX3DV4 - SN7785	DAE4ip Sn1800	0.507	9.800	10.14	3.47
SAR-19	2024/8/2	835	50	D835V2-4d167	EX3DV4 - SN7694	DAE4 Sn661	0.513	9.800	10.26	4.69
SAR-19	2024/8/4	835	50	D835V2-4d167	EX3DV4 - SN7694	DAE4 Sn661	0.514	9.800	10.28	4.90
SAR-19	2024/8/10	835	50	D835V2-4d167	EX3DV4 - SN7694	DAE4 Sn661	0.517	9.800	10.34	5.51
SAR-20	2024/8/29	835	50	D835V2-4d167	EX3DV4 - SN7590	DAE4 Sn1776	0.483	9.800	9.66	-1.43
SAR-16	2024/8/30	835	50	D835V2-4d167	EX3DV4 - SN3931	DAE4 Sn699	0.491	9.800	9.82	0.20
SAR-21	2024/7/18	1750	50	D1750V2-1112	EX3DV4 - SN7813	DAE4 Sn1805	1.800	36.900	36	-2.44
SAR-19	2024/7/18	1750	50	D1750V2-1112	EX3DV4 - SN7694	DAE4 Sn661	1.840	36.900	36.8	-0.27
SAR-21	2024/7/27	1750	50	D1750V2-1112	EX3DV4 - SN7813	DAE4 Sn1805	1.790	36.900	35.8	-2.98
SAR-21	2024/7/29	1750	50	D1750V2-1112	EX3DV4 - SN7813	DAE4 Sn1805	1.920	36.900	38.4	4.07
SAR-21	2024/7/30	1750	50	D1750V2-1112	EX3DV4 - SN7813	DAE4 Sn1805	1.900	36.900	38	2.98
SAR-19	2024/8/3	1750	50	D1750V2-1112	EX3DV4 - SN7694	DAE4 Sn661	1.720	36.900	34.4	-6.78
SAR-19	2024/8/5	1750	50	D1750V2-1112	EX3DV4 - SN7694	DAE4 Sn661	1.720	36.900	34.4	-6.78
SAR-19	2024/8/6	1750	50	D1750V2-1112	EX3DV4 - SN7694	DAE4 Sn661	1.690	36.900	33.8	-8.40
SAR-19	2024/8/13	1750	50	D1750V2-1112	EX3DV4 - SN7694	DAE4 Sn661	1.670	36.900	33.4	-9.49
SAR-20	2024/8/30	1750	50	D1750V2-1112	EX3DV4 - SN7590	DAE4 Sn1776	1.830	36.900	36.6	-0.81
SAR-16	2024/8/31	1750	50	D1750V2-1112	EX3DV4 - SN3931	DAE4 Sn699	1.830	36.900	36.6	-0.81
SAR-19	2024/7/18	1900	50	D1900V2-5d185	EX3DV4 - SN7694	DAE4 Sn661	1.910	39.000	38.2	-2.05
SAR-21	2024/7/27	1900	50	D1900V2-5d185	EX3DV4 - SN7813	DAE4 Sn1805	1.950	39.000	39	0.00
SAR-21	2024/7/29	1900	50	D1900V2-5d185	EX3DV4 - SN7813	DAE4 Sn1805	2.080	39.000	41.6	6.67
SAR-17	2024/8/1	1900	50	D1900V2-5d185	EX3DV4 - SN7625	DAE4ip Sn1800	1.960	39.000	39.2	0.51
SAR-19	2024/8/3	1900	50	D1900V2-5d185	EX3DV4 - SN7694	DAE4 Sn661	1.870	39.000	37.4	-4.10
SAR-19	2024/8/5	1900	50	D1900V2-5d185	EX3DV4 - SN7694	DAE4 Sn661	1.910	39.000	38.2	-2.05
SAR-19	2024/8/7	1900	50	D1900V2-5d185	EX3DV4 - SN7694	DAE4 Sn661	1.830	39.000	36.6	-6.15
SAR-20	2024/8/30	1900	50	D1900V2-5d185	EX3DV4 - SN7590	DAE4 Sn1776	2.000	39.000	40	2.56
SAR-16	2024/8/31	1900	50	D1900V2-5d185	EX3DV4 - SN3931	DAE4 Sn699	2.030	39.000	40.6	4.10
SAR-21	2024/7/25	2300	50	D2300V2-1006	EX3DV4 - SN7813	DAE4 Sn1805	2.410	48.300	48.2	-0.21
SAR-21	2024/8/1	2300	50	D2300V2-1006	EX3DV4 - SN7813	DAE4 Sn1805	2.390	48.300	47.8	-1.04
SAR-17	2024/8/4	2300	50	D2300V2-1006	EX3DV4 - SN7625	DAE4ip Sn1800	2.290	48.300	45.8	-5.18
SAR-19	2024/8/12	2300	50	D2300V2-1006	EX3DV4 - SN7694	DAE4 Sn661	2.220	48.300	44.4	-8.07
SAR-16	2024/8/30	2300	50	D2300V2-1006	EX3DV4 - SN3931	DAE4 Sn699	2.350	48.300	47	-2.69
SAR-18	2024/7/22	2600	50	D2600V2-1078	EX3DV4 - SN7785	DAE4ip Sn1800	2.810	55.400	56.2	1.44
SAR-19	2024/7/24	2600	50	D2600V2-1078	EX3DV4 - SN7694	DAE4 Sn661	2.550	55.400	51	-7.94
SAR-21	2024/7/25	2600	50	D2600V2-1078	EX3DV4 - SN7813	DAE4 Sn1805	2.680	55.400	53.6	-3.25
SAR-18	2024/7/29	2600	50	D2600V2-1078	EX3DV4 - SN7785	DAE4ip Sn1800	2.730	55.400	54.6	-1.44



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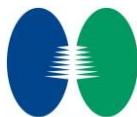
SAR-17	2024/8/2	2600	50	D2600V2-1078	EX3DV4 - SN7625	DAE4ip Sn1800	2.620	55.400	52.4	-5.42
SAR-19	2024/8/4	2600	50	D2600V2-1078	EX3DV4 - SN7694	DAE4 Sn661	2.620	55.400	52.4	-5.42
SAR-17	2024/8/4	2600	50	D2600V2-1078	EX3DV4 - SN7625	DAE4ip Sn1800	2.680	55.400	53.6	-3.25
SAR-19	2024/8/11	2600	50	D2600V2-1078	EX3DV4 - SN7694	DAE4 Sn661	2.770	55.400	55.4	0.00
SAR-19	2024/8/12	2600	50	D2600V2-1078	EX3DV4 - SN7694	DAE4 Sn661	2.800	55.400	56	1.08
SAR-16	2024/8/30	2600	50	D2600V2-1078	EX3DV4 - SN3931	DAE4 Sn699	2.750	55.400	55	-0.72
SAR-20	2024/8/31	2600	50	D2600V2-1078	EX3DV4 - SN7590	DAE4 Sn1776	2.520	55.400	50.4	-9.03
SAR-21	2024/7/16	3500	50	D3500V2-1014	EX3DV4 - SN7813	DAE4 Sn1805	3.540	67.200	70.8	5.36
SAR-19	2024/7/23	3500	50	D3500V2-1014	EX3DV4 - SN7694	DAE4 Sn661	3.050	67.200	61	-9.23
SAR-18	2024/7/30	3500	50	D3500V2-1014	EX3DV4 - SN7785	DAE4ip Sn1800	3.430	67.200	68.6	2.08
SAR-17	2024/8/3	3500	50	D3500V2-1014	EX3DV4 - SN7625	DAE4ip Sn1800	3.310	67.200	66.2	-1.49
SAR-21	2024/8/4	3500	50	D3500V2-1014	EX3DV4 - SN7813	DAE4 Sn1805	3.380	67.200	67.6	0.60
SAR-17	2024/8/7	3500	50	D3500V2-1014	EX3DV4 - SN7625	DAE4ip Sn1800	3.500	67.200	70	4.17
SAR-19	2024/8/8	3500	50	D3500V2-1014	EX3DV4 - SN7694	DAE4 Sn661	3.280	67.200	65.6	-2.38
SAR-17	2024/8/8	3500	50	D3500V2-1014	EX3DV4 - SN7625	DAE4ip Sn1800	3.490	67.200	69.8	3.87
SAR-19	2024/8/9	3500	50	D3500V2-1014	EX3DV4 - SN7694	DAE4 Sn661	3.290	67.200	65.8	-2.08
SAR-17	2024/8/9	3500	50	D3500V2-1014	EX3DV4 - SN7625	DAE4ip Sn1800	3.460	67.200	69.2	2.98
SAR-17	2024/8/10	3500	50	D3500V2-1036	EX3DV4 - SN7625	DAE4ip Sn1800	3.290	67.400	65.8	-2.37
SAR-17	2024/8/19	3500	50	D3500V2-1014	EX3DV4 - SN7625	DAE4ip Sn1800	3.330	67.200	66.6	-0.89
SAR-17	2024/8/21	3500	50	D3500V2-1014	EX3DV4 - SN7625	DAE4ip Sn1800	3.120	67.200	62.4	-7.14
SAR-16	2024/8/31	3500	50	D3500V2-1014	EX3DV4 - SN3931	DAE4 Sn699	3.450	67.200	69	2.68
SAR-21	2024/7/16	3700	50	D3700V2-1006	EX3DV4 - SN7813	DAE4 Sn1805	3.590	65.600	71.8	9.45
SAR-19	2024/7/23	3700	50	D3700V2-1006	EX3DV4 - SN7694	DAE4 Sn661	3.150	65.600	63	-3.96
SAR-18	2024/7/30	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4ip Sn1800	3.310	65.600	66.2	0.91
SAR-17	2024/8/3	3700	50	D3700V2-1006	EX3DV4 - SN7625	DAE4ip Sn1800	3.470	65.600	69.4	5.79
SAR-21	2024/8/4	3700	50	D3700V2-1006	EX3DV4 - SN7813	DAE4 Sn1805	3.050	65.600	61	-7.01
SAR-17	2024/8/7	3700	50	D3700V2-1006	EX3DV4 - SN7625	DAE4ip Sn1800	3.080	65.600	61.6	-6.10
SAR-19	2024/8/8	3700	50	D3700V2-1006	EX3DV4 - SN7694	DAE4 Sn661	3.210	65.600	64.2	-2.13
SAR-17	2024/8/8	3700	50	D3700V2-1006	EX3DV4 - SN7625	DAE4ip Sn1800	3.060	65.600	61.2	-6.71
SAR-19	2024/8/9	3700	50	D3700V2-1006	EX3DV4 - SN7694	DAE4 Sn661	2.990	65.600	59.8	-8.84
SAR-17	2024/8/9	3700	50	D3700V2-1006	EX3DV4 - SN7625	DAE4ip Sn1800	3.040	65.600	60.8	-7.32
SAR-17	2024/8/10	3700	50	D3700V2-1022	EX3DV4 - SN7625	DAE4ip Sn1800	3.450	68.100	69	1.32
SAR-17	2024/8/19	3700	50	D3700V2-1006	EX3DV4 - SN7625	DAE4ip Sn1800	3.270	65.600	65.4	-0.30
SAR-17	2024/8/21	3700	50	D3700V2-1006	EX3DV4 - SN7625	DAE4ip Sn1800	3.340	65.600	66.8	1.83
SAR-16	2024/8/31	3700	50	D3700V2-1006	EX3DV4 - SN3931	DAE4 Sn699	3.310	65.600	66.2	0.91
SAR-19	2024/7/23	3900	50	D3900V2-1092	EX3DV4 - SN7694	DAE4 Sn661	3.020	67.000	60.4	-9.85
SAR-18	2024/7/30	3900	50	D3900V2-1092	EX3DV4 - SN7785	DAE4ip Sn1800	3.190	67.000	63.8	-4.78
SAR-17	2024/8/3	3900	50	D3900V2-1092	EX3DV4 - SN7625	DAE4ip Sn1800	3.350	67.000	67	0.00
SAR-21	2024/8/4	3900	50	D3900V2-1092	EX3DV4 - SN7813	DAE4 Sn1805	3.400	67.000	68	1.49
SAR-17	2024/8/7	3900	50	D3900V2-1092	EX3DV4 - SN7625	DAE4ip Sn1800	3.390	67.000	67.8	1.19
SAR-17	2024/8/8	3900	50	D3900V2-1092	EX3DV4 - SN7625	DAE4ip Sn1800	3.390	67.000	67.8	1.19
SAR-17	2024/8/9	3900	50	D3900V2-1092	EX3DV4 - SN7625	DAE4ip Sn1800	3.360	67.000	67.2	0.30
SAR-17	2024/8/10	3900	50	D3900V2-1092	EX3DV4 - SN7625	DAE4ip Sn1800	3.310	67.000	66.2	-1.19
SAR-16	2024/8/31	3900	50	D3900V2-1092	EX3DV4 - SN3931	DAE4 Sn699	3.380	67.000	67.6	0.90



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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 (%)
SAR-21	2024/8/1	2450	50	D2450V2-929	EX3DV4 - SN7813	DAE4 Sn1805	2.660	52.400	53.2	1.53	1.260	24.700	25.2	2.02
SAR-21	2024/8/6	2450	50	D2450V2-929	EX3DV4 - SN7813	DAE4 Sn1805	2.740	52.400	54.8	4.58	1.300	24.700	26	5.26
SAR-20	2024/8/7	2450	50	D2450V2-929	EX3DV4 - SN7590	DAE4 Sn1776	2.530	52.400	50.6	-3.44	1.190	24.700	23.8	-3.64
SAR-20	2024/8/9	2450	50	D2450V2-929	EX3DV4 - SN7590	DAE4 Sn1776	2.470	52.400	49.4	-5.73	1.180	24.700	23.6	-4.45
SAR-21	2024/8/14	2450	50	D2450V2-929	EX3DV4 - SN7813	DAE4 Sn1805	2.500	52.400	50	-4.58	1.190	24.700	23.8	-3.64
SAR-18	2024/7/26	5250	50	D5GHZV2-1006	EX3DV4 - SN7785	DAE4ip Sn1800	3.790	81.200	75.8	-6.65	1.070	23.200	21.4	-7.76
SAR-18	2024/7/27	5250	50	D5GHZV2-1006	EX3DV4 - SN7785	DAE4ip Sn1800	3.720	81.200	74.4	-8.37	1.060	23.200	21.2	-8.62
SAR-21	2024/8/2	5250	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	3.830	81.200	76.6	-5.67	1.110	23.200	22.2	-4.31
SAR-21	2024/8/4	5250	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	3.730	81.200	74.6	-8.13	1.080	23.200	21.6	-6.90
SAR-21	2024/8/9	5250	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	3.780	81.200	75.6	-6.90	1.090	23.200	21.8	-6.03
SAR-21	2024/8/10	5250	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	3.880	81.200	77.6	-4.43	1.130	23.200	22.6	-2.59
SAR-20	2024/8/10	5250	50	D5GHZV2-1006	EX3DV4 - SN7590	DAE4 Sn1776	4.040	81.200	80.8	-0.49	1.160	23.200	23.2	0.00
SAR-20	2024/8/11	5250	50	D5GHZV2-1006	EX3DV4 - SN7590	DAE4 Sn1776	3.840	81.200	76.8	-5.42	1.140	23.200	22.8	-1.72
SAR-21	2024/8/12	5250	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	3.920	81.200	78.4	-3.45	1.140	23.200	22.8	-1.72
SAR-20	2024/8/12	5250	50	D5GHZV2-1006	EX3DV4 - SN7590	DAE4 Sn1776	3.880	81.200	77.6	-4.43	1.130	23.200	22.6	-2.59
SAR-21	2024/8/13	5250	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	3.940	81.200	78.8	-2.96	1.140	23.200	22.8	-1.72
SAR-20	2024/8/15	5250	50	D5GHZV2-1006	EX3DV4 - SN7590	DAE4 Sn1776	3.780	81.200	75.6	-6.90	1.110	23.200	22.2	-4.31
SAR-18	2024/7/26	5600	50	D5GHZV2-1006	EX3DV4 - SN7785	DAE4ip Sn1800	4.090	84.700	81.8	-3.42	1.140	24.200	22.8	-5.79
SAR-18	2024/7/27	5600	50	D5GHZV2-1006	EX3DV4 - SN7785	DAE4ip Sn1800	4.050	84.700	81	-4.37	1.140	24.200	22.8	-5.79
SAR-21	2024/8/3	5600	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	4.190	84.700	83.8	-1.06	1.190	24.200	23.8	-1.65
SAR-21	2024/8/5	5600	100	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	9.190	84.700	91.9	8.50	2.650	24.200	26.5	9.50
SAR-21	2024/8/8	5600	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	4.140	84.700	82.8	-2.24	1.180	24.200	23.6	-2.48
SAR-21	2024/8/9	5600	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	4.150	84.700	83	-2.01	1.180	24.200	23.6	-2.48
SAR-21	2024/8/10	5600	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	4.290	84.700	85.8	1.30	1.230	24.200	24.6	1.65
SAR-20	2024/8/10	5600	50	D5GHZV2-1006	EX3DV4 - SN7590	DAE4 Sn1776	4.530	84.700	90.6	6.97	1.290	24.200	25.8	6.61
SAR-20	2024/8/11	5600	50	D5GHZV2-1006	EX3DV4 - SN7590	DAE4 Sn1776	3.990	84.700	79.8	-5.79	1.150	24.200	23	-4.96
SAR-21	2024/8/12	5600	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	4.300	84.700	86	1.53	1.240	24.200	24.8	2.48
SAR-20	2024/8/12	5600	50	D5GHZV2-1006	EX3DV4 - SN7590	DAE4 Sn1776	4.270	84.700	85.4	0.83	1.230	24.200	24.6	1.65
SAR-21	2024/8/13	5600	50	D5GHZV2-1006	EX3DV4 - SN7813	DAE4 Sn1805	4.430	84.700	88.6	4.60	1.250	24.200	25	3.31
SAR-20	2024/8/15	5600	50	D5GHZV2-1006	EX3DV4 - SN7590	DAE4 Sn1776	3.940	84.700	78.8	-6.97	1.160	24.200	23.2	-4.13
SAR-18	2024/7/26	5750	50	D5GHZV2-1006	EX3DV4 - SN7785	DAE4ip Sn1800	3.750	80.900	75	-7.29	1.050	22.900	21	-8.30
SAR-18	2024/7/27	5750	50	D5GHZV2-1006	EX3DV4 - SN7785	DAE4ip Sn1800	3.690	80.900	73.8	-8.78	1.040	22.900	20.8	-9.17
SAR-21	2024/7/29	5800	50	D5GHZV2-1128	EX3DV4 - SN7813	DAE4 Sn1805	4.100	78.700	82	4.19	1.180	22.200	23.6	6.31
SAR-21	2024/8/4	5800	50	D5GHZV2-1128	EX3DV4 - SN7813	DAE4 Sn1805	3.670	78.700	73.4	-6.73	1.050	22.200	21	-5.41
SAR-21	2024/8/5	5800	50	D5GHZV2-1128	EX3DV4 - SN7813	DAE4 Sn1805	3.860	78.700	77.2	-1.91	1.100	22.200	22	-0.90
SAR-21	2024/8/8	5800	50	D5GHZV2-1128	EX3DV4 - SN7813	DAE4 Sn1805	3.940	78.700	78.8	0.13	1.140	22.200	22.8	2.70
SAR-21	2024/8/9	5800	50	D5GHZV2-1128	EX3DV4 - SN7813	DAE4 Sn1805	3.680	78.700	73.6	-6.48	1.050	22.200	21	-5.41
SAR-21	2024/8/10	5800	50	D5GHZV2-1128	EX3DV4 - SN7813	DAE4 Sn1805	3.820	78.700	76.4	-2.92	1.100	22.200	22	-0.90



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SAR-20	2024/8/10	5800	50	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1776	3.560	78.700	71.2	-9.53	1.030	22.200	20.6	-7.21
SAR-20	2024/8/11	5800	50	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1776	3.660	78.700	73.2	-6.99	1.060	22.200	21.2	-4.50
SAR-21	2024/8/12	5800	50	D5GHzV2-1128	EX3DV4 - SN7813	DAE4 Sn1805	3.840	78.700	76.8	-2.41	1.090	22.200	21.8	-1.80
SAR-20	2024/8/12	5800	50	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1776	3.710	78.700	74.2	-5.72	1.070	22.200	21.4	-3.60
SAR-21	2024/8/13	5800	50	D5GHzV2-1128	EX3DV4 - SN7813	DAE4 Sn1805	3.850	78.700	77	-2.16	1.100	22.200	22	-0.90
SAR-20	2024/8/15	5800	50	D5GHzV2-1128	EX3DV4 - SN7590	DAE4 Sn1776	4.160	78.700	83.2	5.72	1.170	22.200	23.4	5.41

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 (%)
SAR-21	2024/7/25	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7813	DAE4 Sn1805	31.200	292.000	312	6.85	5.810	54.000	58.1	7.59
SAR-21	2024/7/28	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7813	DAE4 Sn1805	31.700	292.000	317	8.56	5.890	54.000	58.9	9.07
SAR-21	2024/8/3	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7813	DAE4 Sn1805	31.600	292.000	316	8.22	5.890	54.000	58.9	9.07
SAR-20	2024/8/19	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7590	DAE4 Sn1776	29.300	292.000	293	0.34	5.420	54.000	54.2	0.37
SAR-21	2024/8/21	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7813	DAE4 Sn1805	31.100	292.000	311	6.51	5.780	54.000	57.8	7.04
SAR-21	2024/8/22	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7813	DAE4 Sn1805	31.500	292.000	315	7.88	5.860	54.000	58.6	8.52
SAR-20	2024/8/20	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7590	DAE4 Sn1776	31.300	292.000	313	7.19	5.880	54.000	58.8	8.89
SAR-21	2024/8/25	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7813	DAE4 Sn1805	28.400	292.000	284	-2.74	5.230	54.000	52.3	-3.15
SAR-11	2024/8/20	13	1000	CLA13-1022	EX3DV4 - SN3931	DAE4 Sn699					0.329	0.349	0.329	-6.00

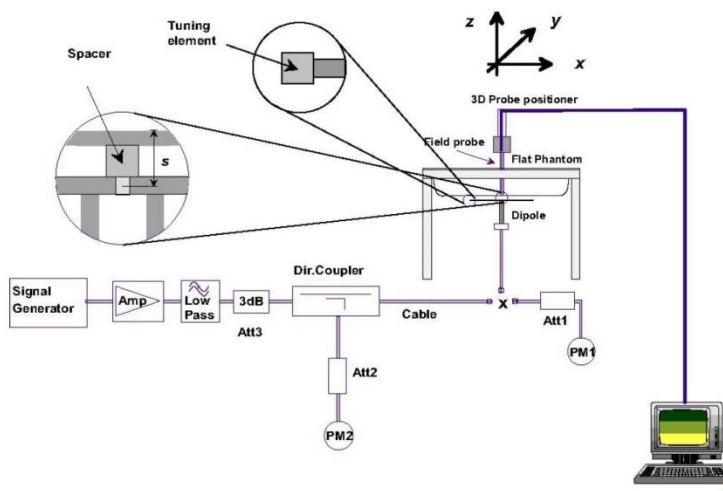


Fig 8.3.1 System Performance Check Setup



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
SAR13	10G	10GHz_1052	EUmmWV4 - 9461	1697	10	63.7	56.8	0.50	2024/8/10
SAR13	10G	10GHz_1052	EUmmWV4 - 9461	1697	10	62.1	56.8	0.39	2024/8/17

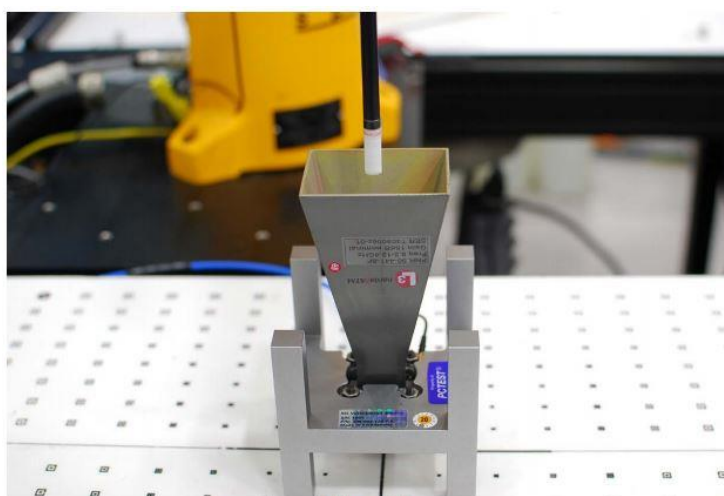


Figure 4-3
System Verification Setup Photo

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.

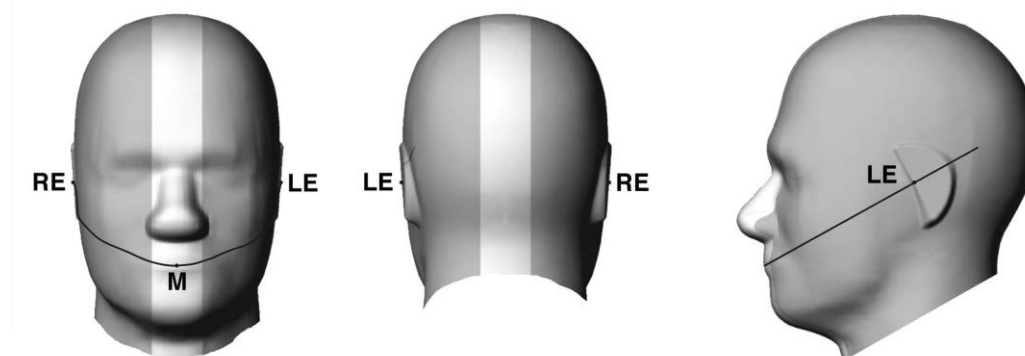


Fig 9.1.1 Front, back, and side views of SAM twin phantom

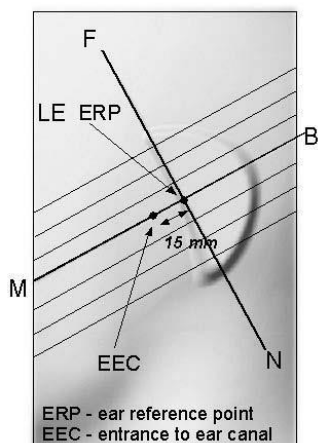


Fig 9.1.2 Close-up side view of phantom showing the ear region.

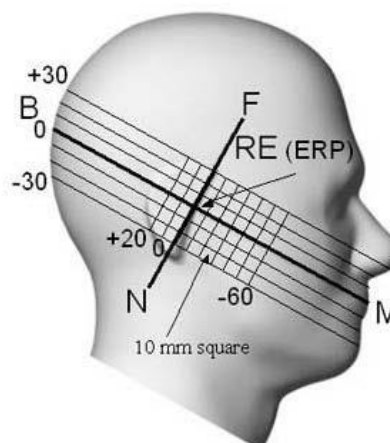


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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.

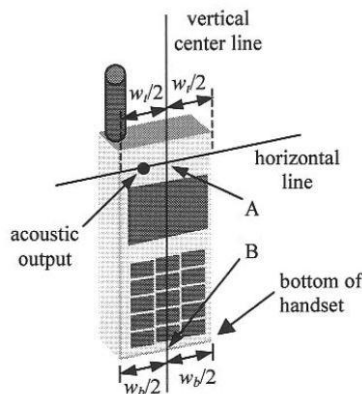


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case"

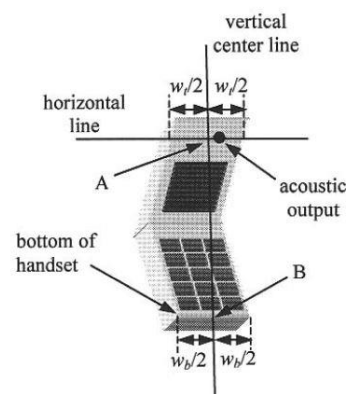


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

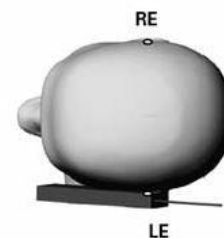
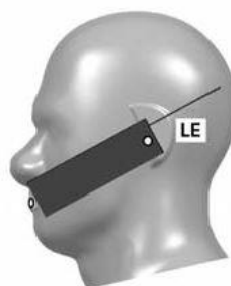
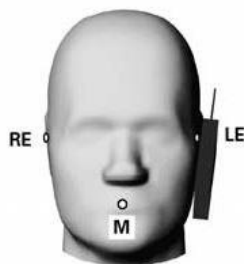


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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

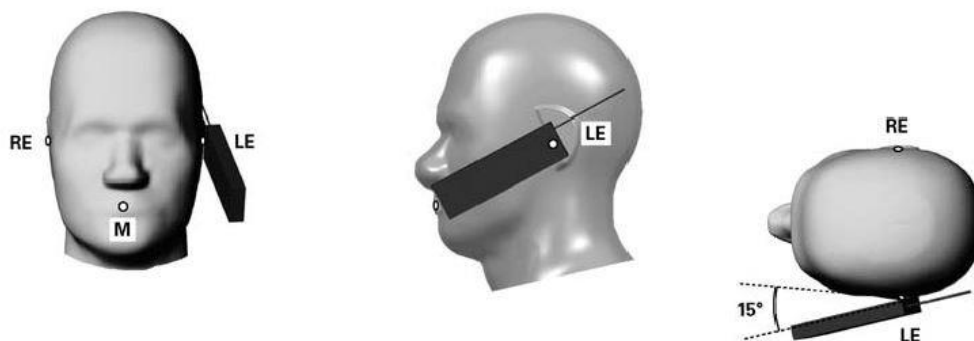


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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 $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset 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-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

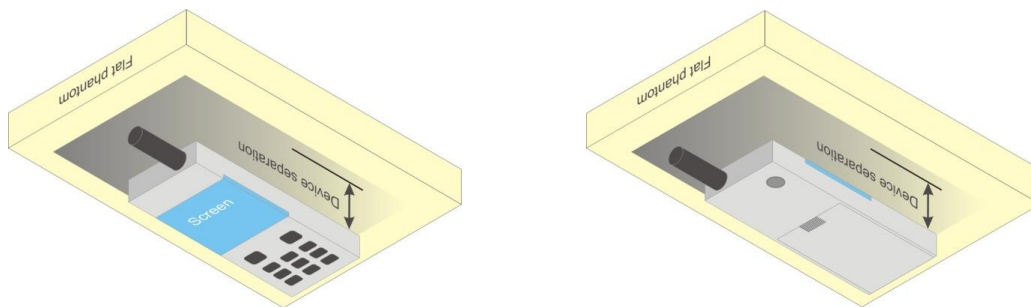


Fig 9.4 Body Worn Position

11.5 Product Specific Exposure

For smart phones with a display diagonal dimension $> 15.0 \text{ cm}$ or an overall diagonal dimension $> 16.0 \text{ cm}$ 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 $\leq 25 \text{ mm}$ 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 $> 1.2 \text{ W/kg}$.

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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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. DL/UL carrier aggregation

<LTE Carrier Aggregation combinations>

General Note:

1. This device supports Carrier Aggregation on downlink 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 require power measurement should be highlighted 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_2C	528	87	CA_25D	520	256	CA_41E	455
2	CA_4C	489	88	CA_41D	455	257	CA_48E	528
3	CA_5B	518	89	CA_48D	528	258	CA_41A-41A-41C	455
4	CA_5C	518	90	CA_66D	528	259	CA_41A-41D	455
5	CA_7B	520	91	CA_2A-2A-2A	528	260	CA_41C-41C	455
6	CA_7C	520	92	CA_25A-25A-25A	520	261	CA_48A-48D	528
7	CA_12B	521	93	CA_25A-25C	520	262	CA_48C-48C	528
8	CA_25C	520	94	CA_41A-41A-41A	455	263	CA_66B-66C	528
9	CA_38C	424	95	CA_41A-41C	455	264	CA_2A-2A-2A-5A	497
10	CA_41C	455	96	CA_41C-41A	455	265	CA_2A-2A-2A-12A	501
11	CA_48B	528	97	CA_48A-48C	528	266	CA_2A-2A-2A-14A	507
12	CA_48C	528	98	CA_48C-48A	528	267	CA_2A-2A-2A-29A	508
13	CA_66B	528	99	CA_66A-66A-66A	528	268	CA_2A-2A-2A-30A	509
14	CA_66C	528	100	CA_66A-66B	528	269	CA_2A-2A-2A-66A	528
15	CA_2A-2A	528	101	CA_66A-66C	528	270	CA_2A-2A-4A-4A	489
16	CA_4A-4A	489	102	CA_66B-66A	528	271	CA_2A-2A-5A-5A	497
17	CA_5A-5A	518	103	CA_2A-2A-4A	489	272	CA_2A-2A-5B	497
18	CA_7A-7A	520	104	CA_2A-2A-5A	497	273	CA_2A-2A-7A-7A	499
19	CA_12A-12A	521	105	CA_2A-2A-7A	499	274	CA_2A-2A-7C	499
20	CA_25A-25A	520	106	CA_2A-2A-12A	501	275	CA_2A-2A-12B	501
21	CA_38A-38A	424	107	CA_2A-2A-13A	506	276	CA_2A-2A-66A-66A	528
22	CA_41A-41A	455	108	CA_2A-2A-14A	507	277	CA_2A-2A-66B	528
23	CA_48A-48A	528	109	CA_2A-2A-29A	508	278	CA_2A-2A-66C	528
24	CA_66A-66A	528	110	CA_2A-2A-30A	509	279	CA_2C-5B	497
25	CA_2A-4A	489	111	CA_2A-2A-66A	528	280	CA_2A-48A-48C	528
26	CA_2A-5A	497	112	CA_2A-2A-71A	488	281	CA_2A-48C-48A	528
27	CA_2A-7A	499	113	CA_2A-4A-4A	489	282	CA_2A-48D	528
28	CA_2A-12A	501	114	CA_2A-5A-5A	497	283	CA_2A-66A-66A-66A	528
29	CA_2A-13A	506	115	CA_2A-5B	497	284	CA_2A-66A-66B	528
30	CA_2A-14A	507	116	CA_2C-5A	497	285	CA_2A-66A-66C	528
31	CA_2A-17A	211	117	CA_2A-7A-7A	499	286	CA_2C-66A-66A	528
32	CA_2A-26A	231	118	CA_2A-7C	499	287	CA_2A-66D	528
33	CA_2A-29A	508	119	CA_2A-12A-12A	501	288	CA_4A-4A-5A-5A	489
34	CA_2A-30A	509	120	CA_2A-12B	501	289	CA_4A-4A-5B	489
35	CA_2A-48A	528	121	CA_2C-12A	501	290	CA_4A-4A-12B	409
36	CA_2A-66A	528	122	CA_2C-29A	508	291	CA_4A-4A-48A-48A	446
37	CA_2A-71A	488	123	CA_2C-30A	509	292	CA_4A-48D	446
38	CA_4A-5A	489	124	CA_2A-48A-48A	528	293	CA_5A-5A-66A-66A	518
39	CA_4A-7A	409	125	CA_2A-48C	528	294	CA_5A-5A-66B	518
40	CA_4A-12A	409	126	CA_2A-66A-66A	528	295	CA_5A-5A-66C	518
41	CA_4A-13A	472	127	CA_2A-66B	528	296	CA_5A-48A-48C	518
42	CA_4A-17A	211	128	CA_2A-66C	528	297	CA_5A-48C-48A	518
43	CA_4A-29A	408	129	CA_2C-66A	528	298	CA_5A-48D	518



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Report No. : FA451606B

44	CA_4A-30A	407	130	CA_4A-4A-5A	489	299	CA_5A-66A-66A-66A	518
45	CA_4A-41A		131	CA_4A-4A-7A	409	300	CA_5A-66A-66B	518
46	CA_4A-48A	446	132	CA_4A-4A-12A	409	301	CA_5A-66A-66C	518
47	CA_4A-71A	358	133	CA_4A-4A-13A	472	302	CA_5B-66A-66A	518
48	CA_5A-7A	513	134	CA_4A-4A-29A	408	303	CA_5A-66D	518
49	CA_5A-25A		135	CA_4A-4A-30A	407	304	CA_5B-66B	518
50	CA_5A-30A	515	136	CA_4A-4A-48A	446	305	CA_5B-66C	518
51	CA_5A-38A	153	137	CA_4A-4A-71A	358	306	CA_7A-7A-25A-25A	520
52	CA_5A-41A		138	CA_4A-5A-5A	489	307	CA_7A-7A-66A-66A	520
53	CA_5A-48A	518	139	CA_4A-5B	489	308	CA_7C-25A-25A	520
54	CA_5A-66A	518	140	CA_4C-5A	489	309	CA_7C-66A-66A	520
55	CA_7A-12A	422	141	CA_4A-7A-7A	409	310	CA_12A-66A-66A-66A	521
56	CA_7A-13A	480	142	CA_4A-7C	409	311	CA_12B-66A-66A	521
57	CA_7A-20A	424	143	CA_4C-7A	409	312	CA_13A-48A-48C	525
58	CA_7A-25A	520	144	CA_4A-12A-12A	409	313	CA_13A-48C-48A	525
59	CA_7A-26A	249	145	CA_4A-12B	409	314	CA_13A-48D	525
60	CA_7A-29A	427	146	CA_4C-12A	409	315	CA_13A-66A-66A-66A	525
61	CA_7A-66A	520	147	CA_4A-48A-48A	446	316	CA_13A-66A-66B	525
62	CA_7A-71A	428	148	CA_4A-48C	446	317	CA_13A-66A-66C	525
63	CA_12A-25A		149	CA_5A-5A-66A	518	318	CA_13A-66D	525
64	CA_12A-30A	521	150	CA_5A-7A-7A	513	319	CA_14A-66A-66A-66A	526
65	CA_12A-48A	176	151	CA_5A-7C	513	320	CA_25A-25A-41C	455
66	CA_12A-66A	521	152	CA_5B-30A	515	321	CA_25A-41D	455
67	CA_13A-2A	506	153	CA_5B-38A		322	CA_25C-41C	455
68	CA_13A-4A	472	154	CA_5A-48A-48A	518	323	CA_29A-66A-66A-66A	527
69	CA_13A-48A	525	155	CA_5A-48C	518	324	CA_30A-66A-66A-66A	527
70	CA_13A-66A	525	156	CA_5A-66A-66A	518	325	CA_48A-48A-66A-66A	528
71	CA_14A-30A	526	157	CA_5A-66B	518	326	CA_48A-48A-66B	528
72	CA_14A-66A	526	158	CA_5A-66C	518	327	CA_48A-48A-66C	528
73	CA_25A-26A	191	159	CA_5B-66A	518	328	CA_48A-48C-66A	528
74	CA_25A-41A	455	160	CA_7A-7A-12A	422	329	CA_48C-48A-66A	528
75	CA_25A-48A		161	CA_7A-7A-13A	480	330	CA_48A-66A-66A-66A	528
76	CA_25A-66A	520	162	CA_7A-7A-25A	520	331	CA_48C-66A-66A	528
77	CA_26A-7A	249	163	CA_7A-7A-26A	249	332	CA_48C-66B	528
78	CA_26A-41A	194	164	CA_7A-7A-29A	427	333	CA_48C-66C	528
79	CA_26A-66A	249	165	CA_7A-7A-66A	520	334	CA_48D-66A	528
80	CA_29A-30A	527	166	CA_7A-12B	422	335	CA_2A-2A-4A-5A	489
81	CA_29A-66A	527	167	CA_7C-13A	480	336	CA_2A-2A-4A-12A	364
82	CA_30A-66A	527	168	CA_7C-20A	424	337	CA_2A-2A-4A-13A	472
83	CA_38A-66A		169	CA_7A-25A-25A	520	338	CA_2A-2A-4A-71A	358
84	CA_48A-66A	528	170	CA_7C-25A	520	339	CA_2A-2A-5A-7A	367
85	CA_48A-71A	204	171	CA_7C-26A	249	340	CA_2A-2A-5A-30A	491
86	CA_66A-71A	488	172	CA_7C-29A	427	341	CA_2A-2A-5A-66A	497
			173	CA_7A-66A-66A	520	342	CA_2A-2A-7A-12A	381
			174	CA_7C-66A	520	343	CA_2A-2A-7A-13A	480
			175	CA_12A-12A-66A	521	344	CA_2A-2A-7A-66A	499
			176	CA_12A-48C		345	CA_2A-2A-7A-71A	
			177	CA_12A-66A-66A	521	346	CA_2A-2A-12A-30A	464
			178	CA_12A-66C	521	347	CA_2A-2A-12A-66A	501
			179	CA_12B-66A	521	348	CA_2A-2A-13A-66A	506
			180	CA_13A-48A-48A	525	349	CA_2A-2A-14A-30A	466
			181	CA_13A-48B	525	350	CA_2A-2A-14A-66A	507
			182	CA_13A-48C	525	351	CA_2A-2A-29A-30A	468
			183	CA_13A-66A-66A	525	352	CA_2A-2A-29A-66A	508
			184	CA_13A-66B	525	353	CA_2A-2A-30A-66A	509
			185	CA_13A-66C	525	354	CA_2A-2A-66A-71A	488



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			186	CA_14A-66A-66A	526	355	CA_2A-4A-4A-5A	489
			187	CA_20A-38C	424	356	CA_2A-4A-4A-12A	364
			188	CA_25A-25A-26A	191	357	CA_2A-4A-4A-13A	472
			189	CA_25A-25A-41A	455	358	CA_2A-4A-4A-71A	
			190	CA_25A-25A-66A	520	359	CA_2A-4A-5A-5A	489
			191	CA_25C-26A		360	CA_2A-4A-5B	489
			192	CA_25A-41C	455	361	CA_2A-4A-7A-7A	362
			193	CA_25C-41A	455	362	CA_2A-4A-7C	
			194	CA_26A-41C		363	CA_2A-4A-12A-12A	364
			195	CA_29A-66A-66A	527	364	CA_2A-4A-12B	
			196	CA_30A-66A-66A	527	365	CA_2A-5A-5A-66A	497
			197	CA_48A-48A-66A	528	366	CA_2A-5A-7A-7A	367
			198	CA_48A-48A-71A	204	367	CA_2A-5A-7C	
			199	CA_48A-66A-66A	528	368	CA_2A-5B-30A	491
			200	CA_48A-66B	528	369	CA_2C-5A-30A	491
			201	CA_48A-66C	528	370	CA_2A-5A-48A-48A	493
			202	CA_48B-66A	528	371	CA_2A-5A-48C	493
			203	CA_48C-66A	528	372	CA_2A-5A-66A-66A	497
			204	CA_48C-71A		373	CA_2A-5A-66B	497
			205	CA_66A-66A-71A	488	374	CA_2A-5A-66C	497
			206	CA_66C-71A	488	375	CA_2A-5B-66A	497
			207	CA_2A-4A-5A	489	376	CA_2C-5A-66A	497
			208	CA_2A-4A-7A	362	377	CA_2A-7A-7A-12A	381
			209	CA_2A-4A-12A	364	378	CA_2A-7A-7A-13A	480
			210	CA_2A-4A-13A	472	379	CA_2A-7A-7A-29A	383
			211	CA_2A-4A-17A		380	CA_2A-7A-7A-66A	499
			212	CA_2A-4A-29A		381	CA_2A-7A-12B	
			213	CA_2A-4A-30A		382	CA_2A-7C-13A	480
			214	CA_2A-4A-71A	358	383	CA_2A-7C-29A	
			215	CA_2A-5A-7A	367	384	CA_2A-7A-66A-66A	499
			216	CA_2A-5A-30A	491	385	CA_2A-7C-66A	499
			217	CA_2A-5A-48A	493	386	CA_2C-12A-30A	464
			218	CA_2A-5A-66A	497	387	CA_2A-12A-66A-66A	501
			219	CA_2A-7A-12A	381	388	CA_2A-12A-66C	501
			220	CA_2A-7A-13A	480	389	CA_2A-12B-66A	501
			221	CA_2A-7A-26A		390	CA_2A-13A-48A-48A	503
			222	CA_2A-7A-29A	383	391	CA_2A-13A-48C	503
			223	CA_2A-7A-66A	499	392	CA_2A-13A-66A-66A	506
			224	CA_2A-7A-71A	345	393	CA_2A-13A-66B	506
			225	CA_2A-12A-30A	464	394	CA_2A-13A-66C	506
			226	CA_2A-12A-66A	501	395	CA_2A-14A-66A-66A	507
			227	CA_2A-13A-48A	503	396	CA_2C-29A-30A	468
			228	CA_2A-13A-66A	506	397	CA_2A-29A-66A-66A	508
			229	CA_2A-14A-30A	466	398	CA_2A-30A-66A-66A	509
			230	CA_2A-14A-66A	507	399	CA_2A-48A-48A-66A	528
			231	CA_2A-26A-66A		400	CA_2A-48A-66A-66A	528
			232	CA_2A-29A-30A	468	401	CA_2A-48C-66A	528
			233	CA_2A-29A-66A	508	402	CA_2A-66A-66A-71A	488
			234	CA_2A-30A-66A	509	403	CA_2A-66C-71A	488
			235	CA_2A-48A-66A	528	404	CA_4A-4A-5A-30A	407
			236	CA_2A-66A-71A	488	405	CA_4A-4A-12A-30A	
			237	CA_4A-5A-30A	407	406	CA_4A-4A-29A-30A	
			238	CA_4A-7A-12A	409	407	CA_4A-5B-30A	
			239	CA_4A-7A-29A	408	408	CA_4A-7A-7A-29A	
			240	CA_4A-7A-71A		409	CA_4A-7A-12B	
			241	CA_4A-12A-30A	405	410	CA_5A-7A-7A-66A	513



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			242	CA_4A-29A-30A	406	411	CA_5A-7A-66A-66A	513
			243	CA_5A-7A-66A	513	412	CA_5A-7C-66A	513
			244	CA_5A-30A-66A	515	413	CA_5A-30A-66A-66A	515
			245	CA_5A-48A-66A	518	414	CA_5B-30A-66A	515
			246	CA_7A-12A-66A	422	415	CA_5A-48A-48A-66A	518
			247	CA_7A-13A-66A	423	416	CA_5A-48A-66A-66A	518
			248	CA_7A-25A-66A	520	417	CA_5A-48C-66A	518
			249	CA_7A-26A-66A		418	CA_7A-7A-13A-66A	423
			250	CA_7A-29A-66A	427	419	CA_7A-7A-25A-66A	520
			251	CA_7A-66A-71A	428	420	CA_7A-7A-29A-66A	427
			252	CA_12A-30A-66A	521	421	CA_7A-12A-66A-66A	422
			253	CA_13A-48A-66A	525	422	CA_7A-12B-66A	
			254	CA_14A-30A-66A	526	423	CA_7C-13A-66A	
			255	CA_29A-30A-66A	527	424	CA_7C-20A-38A	
						425	CA_7A-25A-25A-66A	520
						426	CA_7C-25A-66A	520
						427	CA_7C-29A-66A	
						428	CA_7A-66A-66A-71A	
						429	CA_12A-30A-66A-66A	521
						430	CA_13A-48A-48A-66A	525
						431	CA_13A-48A-66B	525
						432	CA_13A-48A-66C	525
						433	CA_13A-48C-66A	525
						434	CA_14A-30A-66A-66A	526
						435	CA_29A-30A-66A-66A	527

5CC Downlink Carrier Aggregation			6CC Downlink Carrier Aggregation		
Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset
436	CA_41F	455	528	CA_2A-48E-66A	
437	CA_48F	528			
438	CA_41C-41D	455			
439	CA_48A-48E	528			
440	CA_48C-48D	528			
441	CA_2A-2A-66A-66B	528			
442	CA_2A-2A-66A-66C	528			
443	CA_2A-48A-48D	528			
444	CA_2A-48C-48C	528			
445	CA_2A-48E	528			
446	CA_4A-48E				
447	CA_5A-48A-48D	518			
448	CA_5A-48C-48C	518			
449	CA_5A-48E	518			
450	CA_5B-66A-66B	518			
451	CA_13A-48A-48D	525			
452	CA_13A-48C-48C	525			
453	CA_13A-48E	525			
454	CA_25A-25A-41D	455			
455	CA_25C-41D				
456	CA_48A-48C-66B	528			
457	CA_48A-48C-66C	528			
458	CA_48A-48D-66A	528			
459	CA_48C-48C-66A	528			
460	CA_48C-66A-66A-66A	528			
461	CA_48E-66A	528			
462	CA_2A-2A-2A-5A-30A	491			



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463	CA_2A-2A-2A-5A-66A	497			
464	CA_2A-2A-2A-12A-30A				
465	CA_2A-2A-2A-12A-66A	501			
466	CA_2A-2A-2A-14A-30A				
467	CA_2A-2A-2A-14A-66A	507			
468	CA_2A-2A-2A-29A-30A				
469	CA_2A-2A-2A-29A-66A	508			
470	CA_2A-2A-2A-30A-66A	509			
471	CA_2A-2A-4A-4A-5A	489			
472	CA_2A-2A-4A-4A-13A				
473	CA_2A-2A-4A-5B	489			
474	CA_2A-2A-5B-30A	491			
475	CA_2A-2A-5A-66A-66A	497			
476	CA_2A-2A-5A-66B	497			
477	CA_2A-2A-5A-66C	497			
478	CA_2A-2A-5B-66A	497			
479	CA_2A-2A-7A-7A-13A	480			
480	CA_2A-2A-7C-13A				
481	CA_2A-2A-7A-66A-66A	499			
482	CA_2A-2A-12A-66A-66A	501			
483	CA_2A-2A-12B-66A	501			
484	CA_2A-2A-13A-66A-66A	506			
485	CA_2A-2A-14A-66A-66A	507			
486	CA_2A-2A-29A-66A-66A	508			
487	CA_2A-2A-30A-66A-66A	509			
488	CA_2A-2A-66A-66A-71A				
489	CA_2A-4A-4A-5B				
490	CA_2A-5A-5A-66A-66A	497			
491	CA_2C-5B-30A				
492	CA_2A-5A-48A-48C	493			
493	CA_2A-5A-48D				
494	CA_2A-5A-66A-66A-66A	497			
495	CA_2A-5B-66A-66A	497			
496	CA_2A-5B-66B	497			
497	CA_2A-5B-66C				
498	CA_2A-7A-7A-66A-66A	499			
499	CA_2A-7C-66A-66A				
500	CA_2A-12A-66A-66A-66A	501			
501	CA_2A-12B-66A-66A				
502	CA_2A-13A-48A-48C	503			
503	CA_2A-13A-48D				
504	CA_2A-13A-66A-66B	506			
505	CA_2A-13A-66A-66C	506			
506	CA_2A-13A-66D				
507	CA_2A-14A-66A-66A-66A				
508	CA_2A-29A-66A-66A-66A				
509	CA_2A-30A-66A-66A-66A				
510	CA_2A-48A-48C-66A	528			
511	CA_2A-48C-66A-66A	528			
512	CA_2A-48D-66A	528			
513	CA_5A-7C-66A-66A				
514	CA_5A-30A-66A-66A-66A	515			
515	CA_5B-30A-66A-66A				
516	CA_5A-48A-48C-66A	518			
517	CA_5A-48C-66A-66A	518			
518	CA_5A-48D-66A				



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519	CA_7A-7A-25A-25A-66A	520			
520	CA_7C-25A-25A-66A				
521	CA_12A-30A-66A-66A-66A				
522	CA_13A-48A-48C-66A	525			
523	CA_13A-48C-66B	525			
524	CA_13A-48C-66C	525			
525	CA_13A-48D-66A				
526	CA_14A-30A-66A-66A-66A				
527	CA_29A-30A-66A-66A-66A				

<Power verification when LTE Carrier Aggregation Active>
General Note:

- 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.
- 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.
- 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.
- 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.
- 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.
- 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	CA Configuration (BCS)	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	CA_4A-41A	4	20	1732.5	20175	QPSK	1	0	41	20	2593	40620	24.45	24.60
	CA_5A-25A	5	10	836.5	20525	QPSK	1	0	25	20	1960	8340	24.58	24.72
	CA_5A-41A	5	10	836.5	20525	QPSK	1	0	41	20	2593	40620	24.53	24.72
	CA_12A-25A	12	10	707.5	23095	QPSK	1	0	25	20	1960	8340	24.46	24.66
	CA_25A-48A	25	20	1880	26340	QPSK	1	0	48	20	3609	55830	24.54	24.71
	CA_38A-66A	38	20	2595	38000	QPSK	1	0	66	20	2145	66786	24.27	24.38

<Three Carrier power verification>

Configure	CA Configuration (BCS)	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	CA_5B-38A	5	10	831.6	20476	QPSK	1	0	5	10	886.5	2575	38	20	2595	38000	24.59	24.72
	CA_12A-48C	12	10	707.5	23095	QPSK	1	0	48	20	3609	55830	48	20	3628.8	56028	24.52	24.66
	CA_25C-26A	25	20	1880	26340	QPSK	1	0	25	20	1979.8	8538	26	15	876.5	8865	24.61	24.71
	CA_26A-41C	26	15	831.5	26865	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	24.55	24.67
	CA_48C-71A	48	20	3609	55830	QPSK	1	0	48	20	3628.8	56028	71	20	634.5	68761	23.94	24.03
	CA_2A-4A-17A	2	10	1905	19150	QPSK	1	49	4	10	2132.5	2175	17	10	740	5790	24.62	24.76
	CA_2A-4A-29A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	29	10	722.5	9715	24.72	24.81
	CA_2A-4A-30A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	30	10	2355	9820	24.69	24.81
	CA_2A-7A-26A	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	26	15	876.5	8865	24.75	24.81
	CA_2A-26A-66A	2	20	1880	18900	QPSK	1	0	26	15	876.5	8865	66	20	2145	66786	24.71	24.81
	CA_4A-7A-71A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	71	20	634.5	68761	24.52	24.60
	CA_7A-26A-66A	7	20	2535	21100	QPSK	1	0	26	15	876.5	8865	66	20	2145	66786	24.33	24.45



<Four Carrier power verification>

Configure	CA Configuration (BCS)	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	CA_2A-2A-7A-71A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	7	20	2655	3100	71	20	634.5	68761	24.68	24.81
	CA_2A-4A-4A-71A	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	71	20	634.5	68761	24.70	24.81
	CA_2A-4A-7C	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	7	20	2655	3100	7	20	2674.8	3298	24.73	24.81
	CA_2A-4A-12B	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	12	5	735.1	5071	12	5	739.9	5119	24.71	24.81
	CA_2A-5A-7C	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	7	20	2655	3100	7	20	2674.8	3298	24.69	24.81
	CA_2A-7A-12B	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	12	5	735.1	5071	12	5	739.9	5119	24.75	24.81
	CA_2A-7C-29A	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	20	2674.8	3298	29	10	722.5	9715	24.66	24.81
	CA_4A-4A-12A-30A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	30	10	2355	9820	24.49	24.60
	CA_4A-4A-29A-30A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	29	10	722.5	9715	30	10	2355	9820	24.51	24.60
	CA_4A-5B-30A	4	20	1732.5	20175	QPSK	1	0	5	10	876.6	2476	5	10	886.5	2575	30	10	2355	9820	24.46	24.60
	CA_4A-7A-7A-29A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	7	5	2622.5	2775	29	10	722.5	9715	24.44	24.60
	CA_4A-7A-12B	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	5	735.1	5071	12	5	739.9	5119	24.47	24.60
	CA_7A-12B-66A	7	20	2535	21100	QPSK	1	0	12	5	735.1	5071	12	5	739.9	5119	66	20	2145	66786	24.33	24.45
	CA_7C-13A-66A	7	20	2535	21100	QPSK	1	0	7	20	2674.8	3298	13	10	751	5230	66	20	2145	66786	24.30	24.45
	CA_7C-29A-66A	7	20	2535	21100	QPSK	1	0	7	20	2674.8	3298	29	10	722.5	9715	66	20	2145	66786	24.22	24.45
	CA_7A-66A-66A-71A	7	20	2535	21100	QPSK	1	0	66	20	2145	66786	66	5	2112.5	66461	71	20	634.5	68761	24.34	24.45

<Five Carrier power verification>

Configure	CA Configuration (BCS)	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	CA_4A-48E	4	20	1732.5	20175	QPSK	1	0	48	20	3609	55830	48	20	3628.8	56028	48	20	3648.6	56226	48	20	3668.4	56424	24.41	24.60
	CA_25C-41D	25	20	1880	26340	QPSK	1	0	25	20	1979.8	8538	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	41016	24.57	24.71
	CA_2A-2A-2A-12A-30A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	2	20	1940	700	12	10	737.5	5095	30	10	2355	9820	24.66	24.81
	CA_2A-2A-2A-14A-30A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	2	20	1940	700	14	10	763	5330	30	10	2355	9820	24.69	24.81
	CA_2A-2A-2A-29A-30A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	2	20	1940	700	29	10	722.5	9715	30	10	2355	9820	24.70	24.81
	CA_2A-2A-4A-4A-13A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	4	20	2132.5	2175	4	5	2152.5	2375	13	10	751	5230	24.64	24.81
	CA_2A-2A-7C-13A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	7	20	2655	3100	7	20	2674.8	3298	13	10	751	5230	24.67	24.81
	CA_2A-2A-66A-66A-71A	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	66	20	2145	66786	66	5	2112.5	66461	71	20	634.5	68761	24.71	24.81
	CA_2A-4A-4A-5B	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	5	10	876.6	2476	5	10	886.6	2575	24.63	24.81
	CA_2C-5B-30A	2	20	1880	18900	QPSK	1	0	2	20	1979.8	1098	5	10	876.6	2476	5	10	886.6	2575	30	10	2355	9820	24.64	24.81
	CA_2A-5A-48D	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	48	20	3609	55830	48	20	3628.8	56028	48	20	3648.6	56226	24.67	24.81
	CA_2A-5B-66C	2	20	1880	18900	QPSK	1	0	5	10	876.6	2476	5	10	886.6	2575	66	20	2145	66786	66	20	2164.8	66984	24.62	24.81
	CA_2A-7C-66A-66A	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	20	2674.8	3298	66	20	2145	66786	66	5	2112.5	66461	24.69	24.81
	CA_2A-12B-66A-66A	2	20	1880	18900	QPSK	1	0	12	5	735.1	5071	12	5	739.9	5119	66	20	2145	66786	66	5	2112.5	66461	24.67	24.81
	CA_2A-13A-48D	2	20	1880	18900	QPSK	1	0	13	10	751	5230	48	20	3609	55830	48	20	3628.8	56028	48	20	3648.6	56226	24.70	24.81
	CA_2A-13A-66D	2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	20	2170	67036	66	20	2150.2	66838	66	20	2130.4	66640	24.63	24.81
	CA_2A-14A-66A-66A-66A	2	20	1880	18900	QPSK	1	0	14	10	763	5330	66	20	2145	66786	66	5	2112.5	66461	66	20	2170	67036	24.66	24.81
	CA_2A-29A-66A-66A-66A	2	20	1880	18900	QPSK	1	0	29	10	722.5	9715	66	20	2145	66786	66	5	2112.5	66461	66	20	2170	67036	24.68	24.81
	CA_2A-30A-66A-66A-66A	2	20	1880	18900	QPSK	1	0	30	10	2355	9820	66	20	2145	66786	66	5	2112.5	66461	66	20	2170	67036	24.67	24.81
	CA_5A-7C-66A-66A	5	10	836.5	20525	QPSK	1	0	7	20	2655	3100	7	20	2674.8	3298	66	20	2145	66786	66	5	2112.5	66461	24.59	24.72
	CA_5B-30A-66A-66A	5	10	831.6	20476	QPSK	1	0	5	10	886.5	2575	30	10	2355	9820	66	20	2145	66786	66	5	2112.5	66461	24.55	24.72
	CA_5A-48D-66A	5	10	836.5	20525	QPSK	1	0	48	20	3609	55830	48	20	3628.8	56028	48	20	3648.6	56226	66	20	2145	66786	24.61	24.72
	CA_7C-25A-25A-66A	7	20	2535	21100	QPSK	1	0	7	20	2674.8	3298	25	20	1960	8340	25	5	1932.5	8065	66	20	2145	66786	24.26	24.45
	CA_12A-30A-66A-66A-66A	12	10	707.5	23095	QPSK	1	0	30	10	2355	9820	66	20	2145	66786	66	5	2112.5	66461	66	20	2170	67036	24.53	24.66
	CA_13A-48D-66A	13	10	782	23230	QPSK	1	0	48	20	3609	55830	48	20	3628.8	56028	48	20	3648.6	56226	66	20	2145	66786	24.58	24.71
	CA_14A-30A-66A-66A-66A	14	10	793	23330	QPSK	1	0	30	10	2355	9820	66	20	2145	66786	66	5	2112.5	66461	66	20	2170	67036	24.61	24.73
	CA_29A-30A-66A-66A-66A	30	10	2310	27710	QPSK	1	0	29	10	722.5	9715	66	20	2145	66786	66	5	2112.5	66461	66	20	2170	67036	24.24	24.33

<Six Carrier power verification>

Configure	PCC	SCC1	SCC2	SCC3	SCC4	SCC5	Power
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FCC SAR TEST REPORT

Report No. : FA451606B

	CA Configuration (BCS)	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	CA_2A-48E-66A	2	20	1880	18900	QPSK	1	0	48	20	3609	55830	48	20	3628.8	56028	48	20	3648.6	56226	48	20	3668.4	56424	66	20	2145	66786	24.72	24.81

<LTE Uplink carrier aggregation>

2CC Uplink Carrier Aggregation	
Number	Combination
1	CA_5B
2	CA_66B
3	CA_66C
4	CA_41C

<Intra-band>

General Note:

- 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.
- 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.
- 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.
- 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.

Ant 0_Index 1/2/5/6								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.98	23.70
20574	20475	QPSK	1	0	1	49	23.19	23.70
20600	20501	QPSK	1	0	1	49	23.02	23.70

Ant 0_Index 3								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.98	23.40
20574	20475	QPSK	1	0	1	49	23.19	23.40
20600	20501	QPSK	1	0	1	49	23.02	23.40

Ant 0_Index 4								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.98	23.50
20574	20475	QPSK	1	0	1	49	23.19	23.50
20600	20501	QPSK	1	0	1	49	23.02	23.50

Ant 1_Index 1/5								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	0	0	0	22.13	23.20
20574	20475	QPSK	1	0	1	49	22.15	23.20
20600	20501	QPSK	1	0	1	49	22.08	23.20

Ant 1_Index 2								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	0	0	0	18.60	19.40
20574	20475	QPSK	1	0	1	49	18.68	19.40
20600	20501	QPSK	1	0	1	49	18.69	19.40

Ant 1_Index 3								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	0	0	0	16.11	17.30
20574	20475	QPSK	1	0	1	49	16.15	17.30
20600	20501	QPSK	1	0	1	49	15.99	17.30

Ant 1_Index 4/6								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	0	0	0	19.89	20.70
20574	20475	QPSK	1	0	1	49	19.91	20.70
20600	20501	QPSK	1	0	1	49	19.82	20.70

Ant 2_Index 1/2/3								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	0	0	22.09	23.70
132322	132229	QPSK	1	0	0	0	21.86	23.70
132597	132504	QPSK	1	0	0	0	21.94	23.70

Ant 2_Index 4/5/6								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	0	0	19.53	20.40
132322	132229	QPSK	1	0	0	0	19.54	20.40
132597	132504	QPSK	1	0	0	0	19.64	20.40

Ant 0_Index 1/2/3								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	0	0	21.91	23.20
132322	132229	QPSK	1	0	0	0	22.17	23.20
132597	132504	QPSK	1	0	0	0	22.18	23.20

Ant 0_Index 4/6								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	0	0	20.81	21.40
132322	132229	QPSK	1	0	0	0	20.84	21.40
132597	132504	QPSK	1	0	0	0	20.85	21.40

Ant 0_Index 5								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	0	0	21.91	22.70
132322	132229	QPSK	1	0	0	0	22.17	22.70
132597	132504	QPSK	1	0	0	0	22.18	22.70

Ant 2_Index 1/2/3								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	0	0	22.10	23.70
132322	132124	QPSK	1	0	0	0	22.07	23.70
132572	132374	QPSK	1	0	0	0	22.13	23.70

Ant 2_Index 4/5/6								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	0	0	19.48	20.40
132322	132124	QPSK	1	0	0	0	19.44	20.40
132572	132374	QPSK	1	0	0	0	19.52	20.40

Ant 0_Index 1/2/3								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	0	0	22.37	23.20
132322	132124	QPSK	1	0	0	0	22.11	23.20
132572	132374	QPSK	1	0	0	0	22.7	23.20

Ant 0_Index 4/6								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	0	0	21.09	21.40
132322	132124	QPSK	1	0	0	0	21.11	21.40
132572	132374	QPSK	1	0	0	0	21.21	21.40

Ant 0_Index 5								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	0	0	22.37	22.70
132322	132124	QPSK	1	0	0	0	22.11	22.70
132572	132374	QPSK	1	0	0	0	22.7	22.70



Ant 2_Index 1/2								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	0	0	0	22.09	23.70
39750	39948	QPSK	1	0	0	0	21.94	23.70
40185	39987	QPSK	1	0	0	0	22.33	23.70
40620	40422	QPSK	1	0	0	0	22.20	23.70
41055	40857	QPSK	1	0	0	0	22.38	23.70
41490	41292	QPSK	1	0	0	0	22.41	23.70

Ant 2_Index 3								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	0	0	0	22.09	23.00
39750	39948	QPSK	1	0	0	0	21.94	23.00
40185	39987	QPSK	1	0	0	0	22.33	23.00
40620	40422	QPSK	1	0	0	0	22.20	23.00
41055	40857	QPSK	1	0	0	0	22.38	23.00
41490	41292	QPSK	1	0	0	0	22.41	23.00

Ant 2_Index 4								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	0	0	0	20.84	21.30
39750	39948	QPSK	1	0	0	0	20.96	21.30
40185	39987	QPSK	1	0	0	0	20.92	21.30
40620	40422	QPSK	1	0	0	0	21.06	21.30
41055	40857	QPSK	1	0	0	0	21.04	21.30
41490	41292	QPSK	1	0	0	0	21.24	21.30

Ant 2_Index 5/6								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	0	0	0	20.84	21.70
39750	39948	QPSK	1	0	0	0	20.96	21.70
40185	39987	QPSK	1	0	0	0	20.92	21.70
40620	40422	QPSK	1	0	0	0	21.06	21.70
41055	40857	QPSK	1	0	0	0	21.04	21.70
41490	41292	QPSK	1	0	0	0	21.24	21.70

Ant 0_Index 1/2/3/5								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	0	0	0	22.12	23.20
39750	39948	QPSK	1	0	0	0	22.05	23.20
40185	39987	QPSK	1	0	0	0	22.42	23.20
40620	40422	QPSK	1	0	0	0	22.15	23.20
41055	40857	QPSK	1	0	0	0	22.40	23.20
41490	41292	QPSK	1	0	0	0	22.51	23.20

Ant 0_Index 4/6								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39790	39988	QPSK	1	0	0	0	20.08	21.60
39750	39948	QPSK	1	0	0	0	20.02	21.60
40185	39987	QPSK	1	0	0	0	20.38	21.60
40620	40422	QPSK	1	0	0	0	20.07	21.60
41055	40857	QPSK	1	0	0	0	20.40	21.60
41490	41292	QPSK	1	0	0	0	20.44	21.60

13. 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
WLAN/BT Ant 3 / 4 / 3+4	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
NFC	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm

Positions for SAR / 6E PD test						
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
WLAN/BT Ant 3 / 4 / 3+4	Yes	Yes	Yes	No	Yes	Yes
NFC	Yes	Yes	Yes	Yes	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 H.

14. 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 cm or an overall diagonal dimension > 16 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, in this report all the hotspot mode results are < 1.2 W/kg.
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 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 $\leq \frac{1}{4}$ 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. For different transmit antenna supports 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 was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission.
 - g. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing

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 for hotspot and body-worn condition 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 evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method.
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
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, therefore Standalone 10-g extremity SAR testing for NFC will be performed with active mode, with 100% duty cycle at 0mm separation distance.
2. NFC SAR is measured for all surface edges of the device with a transmitting antenna located within 25 mm from that surface or edge.

**14.1 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 (3 Tx slots)	Right Cheek	0mm	2	189	836.4	30.53	31.50	1.250	-0.02	0.334	0.418
	GSM850_Ant 0	GPRS (3 Tx slots)	Right Tilted	0mm	2	189	836.4	30.53	31.50	1.250	0.06	0.183	0.229
	GSM850_Ant 0	GPRS (3 Tx slots)	Left Cheek	0mm	2	189	836.4	30.53	31.50	1.250	-0.15	0.431	0.539
	GSM850_Ant 0	GPRS (3 Tx slots)	Left Tilted	0mm	2	189	836.4	30.53	31.50	1.250	-0.09	0.249	0.311
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	3	189	836.4	27.52	28.80	1.343	0.08	0.220	0.295
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Tilted	0mm	3	189	836.4	27.52	28.80	1.343	0.01	0.121	0.162
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	3	189	836.4	27.52	28.80	1.343	0.03	0.284	0.381
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Tilted	0mm	3	189	836.4	27.52	28.80	1.343	-0.08	0.164	0.220
01	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	2	189	836.4	23.90	25.00	1.288	-0.14	0.768	0.989
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	2	128	824.2	23.83	25.00	1.309	0.08	0.740	0.969
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	2	251	848.8	23.55	25.00	1.396	0.01	0.705	0.984
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	2	189	836.4	23.90	25.00	1.288	0.02	0.692	0.891
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	2	128	824.2	23.83	25.00	1.309	0.03	0.653	0.855
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	2	251	848.8	23.55	25.00	1.396	-0.08	0.632	0.883
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Cheek	0mm	2	189	836.4	23.90	25.00	1.288	0.02	0.488	0.629
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Tilted	0mm	2	189	836.4	23.90	25.00	1.288	-0.02	0.431	0.555
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	3	189	836.4	22.00	22.90	1.230	0.1	0.486	0.598
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	3	189	836.4	22.00	22.90	1.230	-0.18	0.444	0.546
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Cheek	0mm	3	189	836.4	22.00	22.90	1.230	0.1	0.308	0.379
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Tilted	0mm	3	189	836.4	22.00	22.90	1.230	0.12	0.274	0.337
02	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Cheek	0mm	2/3	661	1880	26.75	28.00	1.334	0.15	0.358	0.477
	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Tilted	0mm	2/3	661	1880	26.75	28.00	1.334	0.08	0.132	0.176
	GSM1900_Ant 2	GPRS (4 Tx slots)	Left Cheek	0mm	2/3	661	1880	26.75	28.00	1.334	0.03	0.190	0.253
	GSM1900_Ant 2	GPRS (4 Tx slots)	Left Tilted	0mm	2/3	661	1880	26.75	28.00	1.334	0.03	0.109	0.145
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	2/3	661	1880	26.36	27.50	1.300	-0.12	0.149	0.194
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Tilted	0mm	2/3	661	1880	26.36	27.50	1.300	0.1	0.112	0.146
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2/3	661	1880	26.36	27.50	1.300	-0.05	0.349	0.454
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Tilted	0mm	2/3	661	1880	26.36	27.50	1.300	0.1	0.127	0.165

<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	2	9400	1880	24.49	25.70	1.321	0.02	0.605	0.799
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Tilted	0mm	2	9400	1880	24.49	25.70	1.321	0.02	0.263	0.348
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Cheek	0mm	2	9400	1880	24.49	25.70	1.321	-0.13	0.313	0.414
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Tilted	0mm	2	9400	1880	24.49	25.70	1.321	-0.03	0.238	0.314
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	3	9400	1880	24.49	24.50	1.002	0.02	0.605	0.606
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Tilted	0mm	3	9400	1880	24.49	24.50	1.002	0.02	0.263	0.264
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Cheek	0mm	3	9400	1880	24.49	24.50	1.002	-0.13	0.313	0.314
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Tilted	0mm	3	9400	1880	24.49	24.50	1.002	-0.03	0.238	0.239
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	2	9400	1880	24.20	25.20	1.259	-0.11	0.271	0.341
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	2	9400	1880	24.20	25.20	1.259	-0.18	0.237	0.298
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2	9400	1880	24.20	25.20	1.259	-0.09	0.543	0.684
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	2	9400	1880	24.20	25.20	1.259	0.1	0.200	0.252
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	3	9400	1880	24.20	24.20	1.000	-0.11	0.271	0.271
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	3	9400	1880	24.20	24.20	1.000	-0.18	0.237	0.237
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	3	9400	1880	24.20	24.20	1.000	-0.09	0.543	0.543
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	3	9400	1880	24.20	24.20	1.000	0.1	0.200	0.200
04	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2	1413	1732.6	24.13	25.70	1.435	-0.11	0.438	0.629
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Tilted	0mm	2	1413	1732.6	24.18	25.70	1.419	0.06	0.164	0.233
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Cheek	0mm	2	1413	1732.6	24.18	25.70	1.419	-0.02	0.191	0.271
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Tilted	0mm	2	1413	1732.6	24.18	25.70	1.419	-0.04	0.185	0.263
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	3	1413	1732.6	24.13	25.50	1.371	-0.11	0.438	0.600
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Tilted	0mm	3	1413	1732.6	24.18	25.50	1.355	0.06	0.164	0.222
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Cheek	0mm	3	1413	1732.6	24.18	25.50	1.355	-0.02	0.191	0.259
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Tilted	0mm	3	1413	1732.6	24.18	25.50	1.355	-0.04	0.185	0.251
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	2/3	1413	1732.6	24.09	25.20	1.291	0.18	0.192	0.248
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	2/3	1413	1732.6	24.09	25.20	1.291	-0.08	0.160	0.207
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	1413	1732.6	24.09	25.20	1.291	0.04	0.379	0.489
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	2/3	1413	1732.6	24.09	25.20	1.291	0.1	0.155	0.200
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	2	4182	836.4	24.77	25.70	1.239	0.07	0.279	0.346
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	2	4182	836.4	24.77	25.70	1.239	0.01	0.165	0.204
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2	4182	836.4	24.77	25.70	1.239	0.05	0.344	0.426
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	2	4182	836.4	24.77	25.70	1.239	0.03	0.212	0.263
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	3	4182	836.4	24.77	25.00	1.054	0.07	0.279	0.294
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	3	4182	836.4	24.77	25.00	1.054	0.01	0.165	0.174
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	3	4182	836.4	24.77	25.00	1.054	0.05	0.344	0.363
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	3	4182	836.4	24.77	25.00	1.054	0.03	0.212	0.224
05	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4182	836.4	20.30	21.60	1.349	-0.01	0.730	0.985
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4132	826.4	20.29	21.60	1.352	0.05	0.699	0.945
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4233	846.6	20.26	21.60	1.361	-0.04	0.634	0.863
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	2	4182	836.4	20.30	21.60	1.349	0.03	0.720	0.971
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	2	4132	826.4	20.29	21.60	1.352	0.12	0.665	0.899
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	2	4233	846.6	20.26	21.60	1.361	0.15	0.613	0.835
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	2	4182	836.4	20.30	21.60	1.349	-0.01	0.516	0.696
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	2	4182	836.4	20.30	21.60	1.349	0.01	0.464	0.626
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	3	4182	836.4	18.41	19.50	1.285	-0.17	0.464	0.596
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	3	4182	836.4	18.41	19.50	1.285	-0.03	0.459	0.590
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	3	4182	836.4	18.41	19.50	1.285	0.14	0.331	0.425
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	3	4182	836.4	18.41	19.50	1.285	0.11	0.296	0.380



<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	2	18900	1880	14.67	16.3	1.455	-0.08	0.630	0.917
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	2	18700	1860	14.49	16.3	1.517	0.1	0.529	0.803
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	2	19100	1900	14.54	16.3	1.500	0.12	0.528	0.792
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	18900	1880	14.61	16.3	1.476	0.08	0.611	0.902
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	18700	1860	14.47	16.3	1.524	0.1	0.516	0.786
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	19100	1900	14.52	16.3	1.507	0.12	0.519	0.782
	LTE Band 2_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	2	18900	1880	14.55	16.3	1.496	0.08	0.592	0.886
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	18900	1880	14.67	16.3	1.455	-0.06	0.646	0.940
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	18700	1860	14.49	16.3	1.517	0.1	0.505	0.766
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	19100	1900	14.54	16.3	1.500	0.12	0.305	0.457
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	18900	1880	14.61	16.3	1.476	-0.03	0.628	0.927
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	18700	1860	14.47	16.3	1.524	0.1	0.497	0.757
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	19100	1900	14.52	16.3	1.507	0.12	0.303	0.457
	LTE Band 2_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	2	18900	1880	14.55	16.3	1.496	0.08	0.603	0.902
	LTE Band 2_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	2	18900	1880	14.67	16.3	1.455	-0.08	0.224	0.326
	LTE Band 2_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	2	18900	1880	14.61	16.3	1.476	0.11	0.215	0.317
	LTE Band 2_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	2	18900	1880	14.67	16.3	1.455	-0.05	0.222	0.323
	LTE Band 2_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	2	18900	1880	14.61	16.3	1.476	0.18	0.217	0.320
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	3	18900	1880	13.3	14.5	1.318	0.18	0.454	0.598
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	3	18900	1880	13.27	14.5	1.327	0.14	0.441	0.585
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	3	18900	1880	13.3	14.5	1.318	-0.17	0.461	0.608
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	3	18900	1880	13.27	14.5	1.327	0.17	0.461	0.612
	LTE Band 2_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	3	18900	1880	13.3	14.5	1.318	-0.05	0.160	0.211
	LTE Band 2_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	3	18900	1880	13.27	14.5	1.327	0.01	0.150	0.199
	LTE Band 2_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	3	18900	1880	13.3	14.5	1.318	0.1	0.160	0.211
	LTE Band 2_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	3	18900	1880	13.27	14.5	1.327	-0.17	0.150	0.199
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	2	18900	1880	16.62	18.10	1.406	-0.01	0.242	0.340
	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Cheek	0mm	2	18900	1880	16.58	18.10	1.419	-0.17	0.209	0.297
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	2	18900	1880	16.62	18.10	1.406	0.17	0.175	0.246
	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Tilted	0mm	2	18900	1880	16.58	18.10	1.419	-0.05	0.170	0.241
06	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	2	18900	1880	16.62	18.10	1.406	-0.02	0.690	0.970
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	2	18700	1860	16.43	18.10	1.469	0.1	0.590	0.867
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	2	19100	1900	16.46	18.10	1.459	-0.17	0.648	0.945
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	18900	1880	16.58	18.10	1.419	0.04	0.592	0.840
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	18700	1860	16.38	18.10	1.486	0.1	0.540	0.802
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	19100	1900	16.43	18.10	1.469	-0.17	0.520	0.764
	LTE Band 2_Ant 5	20M	QPSK	100	0	Left Cheek	0mm	2	18900	1880	16.53	18.10	1.435	0.01	0.674	0.968
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	2	18900	1880	16.62	18.10	1.406	-0.01	0.347	0.488
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Tilted	0mm	2	18900	1880	16.58	18.10	1.419	-0.08	0.372	0.528
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	3	18900	1880	16.62	16.90	1.067	-0.01	0.242	0.258
	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Cheek	0mm	3	18900	1880	16.58	16.90	1.076	-0.17	0.209	0.225
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	3	18900	1880	16.62	16.90	1.067	0.17	0.175	0.187
	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Tilted	0mm	3	18900	1880	16.58	16.90	1.076	-0.05	0.170	0.183
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	3	18900	1880	16.62	16.90	1.067	-0.02	0.690	0.736
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	3	18900	1880	16.58	16.90	1.076	0.04	0.592	0.637
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	3	18900	1880	16.62	16.90	1.067	-0.01	0.347	0.370
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Tilted	0mm	3	18900	1880	16.58	16.90	1.076	-0.08	0.372	0.400



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	2	21100	2535	24.45	25.70	1.334	0.17	0.706	0.941
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	20850	2510	24.40	25.70	1.349	-0.05	0.639	0.862
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	21350	2560	24.35	25.70	1.365	0.01	0.699	0.954
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2	21100	2535	23.42	24.70	1.343	0.01	0.545	0.732
	LTE Band 7_Ant 2	20M	QPSK	100	0	Right Cheek	0mm	2	21100	2535	23.41	24.70	1.346	0.04	0.500	0.673
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	2	21100	2535	24.45	25.70	1.334	-0.01	0.217	0.289
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	2	21100	2535	23.42	24.70	1.343	-0.08	0.165	0.222
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	2	21100	2535	24.45	25.70	1.334	-0.15	0.372	0.496
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	2	21100	2535	23.42	24.70	1.343	0.06	0.295	0.396
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	2	21100	2535	24.45	25.70	1.334	-0.09	0.198	0.264
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	2	21100	2535	23.42	24.70	1.343	-0.08	0.171	0.230
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	21100	2535	22.60	23.70	1.288	0.04	0.451	0.581
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	3	21100	2535	22.60	23.70	1.288	-0.01	0.444	0.572
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	3	21100	2535	22.60	23.70	1.288	-0.08	0.141	0.182
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	3	21100	2535	22.60	23.70	1.288	0.05	0.127	0.164
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	3	21100	2535	22.60	23.70	1.288	0.06	0.240	0.309
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	3	21100	2535	22.60	23.70	1.288	-0.09	0.239	0.308
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	3	21100	2535	22.60	23.70	1.288	-0.08	0.129	0.166
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	3	21100	2535	22.60	23.70	1.288	0.13	0.141	0.182
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2	21100	2535	24.44	25.20	1.191	-0.01	0.187	0.223
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	2	21100	2535	23.28	24.20	1.236	0.08	0.176	0.218
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	2	21100	2535	24.44	25.20	1.191	-0.1	0.164	0.195
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	2	21100	2535	23.28	24.20	1.236	-0.06	0.136	0.168
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2	21100	2535	24.44	25.20	1.191	0.15	0.489	0.583
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	2	21100	2535	23.28	24.20	1.236	0.04	0.395	0.488
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	2	21100	2535	24.44	25.20	1.191	-0.03	0.150	0.179
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	2	21100	2535	23.28	24.20	1.236	0.07	0.132	0.163
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	3	21100	2535	24.44	24.90	1.112	-0.01	0.187	0.208
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	3	21100	2535	23.28	24.20	1.236	0.08	0.176	0.218
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	3	21100	2535	24.44	24.90	1.112	-0.1	0.164	0.182
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	3	21100	2535	23.28	24.20	1.236	-0.06	0.136	0.168
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	3	21100	2535	24.44	24.90	1.112	0.15	0.489	0.544
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	3	21100	2535	23.28	24.20	1.236	0.04	0.395	0.488
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	3	21100	2535	24.44	24.90	1.112	-0.03	0.150	0.167
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	3	21100	2535	23.28	24.20	1.236	0.07	0.132	0.163



FCC SAR TEST REPORT

Report No. : FA451606B

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	Right Cheek	0mm	2/3	23095	707.5	24.66	25.70	1.271	-0.13	0.166	0.211
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	2/3	23095	707.5	23.81	24.70	1.227	0.17	0.119	0.146
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	2/3	23095	707.5	24.66	25.70	1.271	-0.05	0.090	0.114
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	2/3	23095	707.5	23.81	24.70	1.227	0.01	0.067	0.082
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	2/3	23095	707.5	24.66	25.70	1.271	-0.12	0.190	0.241
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	2/3	23095	707.5	23.81	24.70	1.227	0.1	0.154	0.189
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	2/3	23095	707.5	24.66	25.70	1.271	-0.17	0.113	0.144
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	2/3	23095	707.5	23.81	24.70	1.227	0.04	0.108	0.133
08	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	2	23095	707.5	20.63	22.40	1.503	0.01	0.550	0.827
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	2	23095	707.5	20.75	22.40	1.462	0.11	0.560	0.819
	LTE Band 12_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	2	23095	707.5	20.70	22.40	1.479	-0.05	0.548	0.811
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	2	23095	707.5	20.63	22.40	1.503	-0.02	0.528	0.794
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	2	23095	707.5	20.75	22.40	1.462	0.18	0.524	0.766
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	2	23095	707.5	20.63	22.40	1.503	-0.02	0.310	0.466
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	2	23095	707.5	20.75	22.40	1.462	0.14	0.312	0.456
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	2	23095	707.5	20.63	22.40	1.503	-0.09	0.345	0.519
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	2	23095	707.5	20.75	22.40	1.462	0.17	0.340	0.497
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	3	23095	707.5	20.63	21.00	1.089	0.01	0.550	0.599
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	3	23095	707.5	20.75	21.00	1.059	0.11	0.560	0.593
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	3	23095	707.5	20.63	21.00	1.089	-0.02	0.528	0.575
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	3	23095	707.5	20.75	21.00	1.059	0.18	0.524	0.555
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	3	23095	707.5	20.63	21.00	1.089	-0.02	0.310	0.338
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	3	23095	707.5	20.75	21.00	1.059	0.14	0.312	0.330
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	3	23095	707.5	20.63	21.00	1.089	-0.09	0.345	0.376
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	3	23095	707.5	20.75	21.00	1.059	0.17	0.340	0.360
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	2/3	23230	782	24.71	25.70	1.256	0.12	0.225	0.283
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	2/3	23230	782	23.83	24.70	1.222	-0.18	0.169	0.206
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	2/3	23230	782	24.71	25.70	1.256	0.1	0.154	0.193
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	2/3	23230	782	23.83	24.70	1.222	0.12	0.121	0.148
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	2/3	23230	782	24.71	25.70	1.256	0.05	0.269	0.338
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	2/3	23230	782	23.83	24.70	1.222	0.08	0.211	0.258
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	2/3	23230	782	24.71	25.70	1.256	-0.17	0.196	0.246
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	2/3	23230	782	23.83	24.70	1.222	-0.03	0.135	0.165
09	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	2	23230	782	20.63	22.40	1.503	-0.08	0.601	0.903
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	2	23230	782	20.73	22.40	1.469	0.08	0.600	0.881
	LTE Band 13_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	2	23230	782	20.76	22.40	1.459	0.01	0.594	0.867
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	2	23230	782	20.63	22.40	1.503	0.02	0.540	0.812
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	2	23230	782	20.73	22.40	1.469	0.03	0.541	0.795
	LTE Band 13_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	2	23230	782	20.76	22.40	1.459	-0.08	0.534	0.779
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	2	23230	782	20.63	22.40	1.503	-0.02	0.396	0.595
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	2	23230	782	20.73	22.40	1.469	-0.08	0.397	0.583
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	2	23230	782	20.63	22.40	1.503	0.03	0.413	0.621
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	2	23230	782	20.73	22.40	1.469	-0.18	0.411	0.604
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	3	23230	782	19.50	20.60	1.288	0.18	0.462	0.595
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	3	23230	782	19.59	20.60	1.262	0.16	0.454	0.573
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	3	23230	782	19.50	20.60	1.288	-0.1	0.414	0.533
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	3	23230	782	19.59	20.60	1.262	0.07	0.410	0.517
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	3	23230	782	19.50	20.60	1.288	0.18	0.304	0.392
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	3	23230	782	19.59	20.60	1.262	-0.1	0.302	0.381
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	3	23230	782	19.50	20.60	1.288	0.01	0.318	0.410
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	3	23230	782	19.59	20.60	1.262	-0.15	0.313	0.395





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	Right Cheek	0mm	2	23330	793	24.73	25.70	1.250	0.17	0.244	0.305
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	2	23330	793	23.81	24.70	1.227	0.14	0.189	0.232
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	2	23330	793	24.73	25.70	1.250	0.11	0.164	0.205
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	2	23330	793	23.81	24.70	1.227	-0.05	0.131	0.161
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	2	23330	793	24.73	25.70	1.250	0.07	0.290	0.363
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	2	23330	793	23.81	24.70	1.227	0.18	0.227	0.279
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	2	23330	793	24.73	25.70	1.250	0.14	0.203	0.254
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	2	23330	793	23.81	24.70	1.227	-0.17	0.154	0.189
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	3	23330	793	24.73	25.60	1.222	0.17	0.244	0.298
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	3	23330	793	23.81	24.70	1.227	0.14	0.189	0.232
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	3	23330	793	24.73	25.60	1.222	0.11	0.164	0.200
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	3	23330	793	23.81	24.70	1.227	-0.05	0.131	0.161
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	3	23330	793	24.73	25.60	1.222	0.07	0.290	0.354
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	3	23330	793	23.81	24.70	1.227	0.18	0.227	0.279
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	3	23330	793	24.73	25.60	1.222	0.14	0.203	0.248
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	3	23330	793	23.81	24.70	1.227	-0.17	0.154	0.189
10	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	2	23330	793	20.40	22.10	1.479	-0.07	0.559	0.827
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	2	23330	793	20.49	22.10	1.449	0.1	0.570	0.826
	LTE Band 14_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	2	23330	793	20.49	22.10	1.449	0.12	0.565	0.819
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	2	23330	793	20.40	22.10	1.479	0.01	0.538	0.796
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	2	23330	793	20.49	22.10	1.449	0.08	0.531	0.769
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	2	23330	793	20.40	22.10	1.479	-0.05	0.364	0.538
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	2	23330	793	20.49	22.10	1.449	-0.17	0.371	0.537
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	2	23330	793	20.40	22.10	1.479	-0.01	0.407	0.602
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	2	23330	793	20.49	22.10	1.449	0.14	0.400	0.580
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	3	23330	793	20.40	20.70	1.072	-0.07	0.559	0.599
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	3	23330	793	20.49	20.70	1.050	0.1	0.570	0.598
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	3	23330	793	20.40	20.70	1.072	0.01	0.538	0.576
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	3	23330	793	20.49	20.70	1.050	0.08	0.531	0.557
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	3	23330	793	20.40	20.70	1.072	-0.05	0.364	0.390
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	3	23330	793	20.49	20.70	1.050	-0.17	0.371	0.389
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	3	23330	793	20.40	20.70	1.072	-0.01	0.407	0.436
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	3	23330	793	20.49	20.70	1.050	0.14	0.400	0.420



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)
11	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2/3	26340	1880	24.71	25.70	1.256	-0.11	0.460	0.578
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2/3	26340	1880	23.50	24.70	1.318	-0.05	0.280	0.369
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	2/3	26340	1880	24.71	25.70	1.256	0.14	0.167	0.210
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	2/3	26340	1880	23.50	24.70	1.318	-0.17	0.114	0.150
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	2/3	26340	1880	24.71	25.70	1.256	-0.01	0.251	0.315
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	2/3	26340	1880	23.50	24.70	1.318	0.17	0.199	0.262
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	2/3	26340	1880	24.71	25.70	1.256	-0.05	0.198	0.249
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	2/3	26340	1880	23.50	24.70	1.318	0.01	0.164	0.216
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2	26340	1880	24.71	25.20	1.119	-0.17	0.271	0.303
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	2	26340	1880	23.33	24.20	1.222	0.1	0.135	0.165
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	2	26340	1880	24.71	25.20	1.119	-0.17	0.194	0.217
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	2	26340	1880	23.33	24.20	1.222	0.04	0.129	0.158
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2	26340	1880	24.71	25.20	1.119	-0.19	0.487	0.545
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	2	26340	1880	23.33	24.20	1.222	-0.01	0.292	0.357
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	2	26340	1880	24.71	25.20	1.119	-0.08	0.170	0.190
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	2	26340	1880	23.33	24.20	1.222	0.05	0.098	0.120
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	3	26340	1880	24.71	25.10	1.094	-0.17	0.271	0.296
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	3	26340	1880	23.33	24.20	1.222	0.1	0.135	0.165
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	3	26340	1880	24.71	25.10	1.094	-0.17	0.194	0.212
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	3	26340	1880	23.33	24.20	1.222	0.04	0.129	0.158
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	3	26340	1880	24.71	25.10	1.094	-0.19	0.487	0.533
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	3	26340	1880	23.33	24.20	1.222	-0.01	0.292	0.357
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	3	26340	1880	24.71	25.10	1.094	-0.08	0.170	0.186
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	3	26340	1880	23.33	24.20	1.222	0.05	0.098	0.120



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	Right Cheek	0mm	2	26865	831.5	24.67	25.70	1.268	0.1	0.249	0.316
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Cheek	0mm	2	26865	831.5	23.77	24.70	1.239	-0.01	0.167	0.207
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Tilted	0mm	2	26865	831.5	24.67	25.70	1.268	-0.08	0.145	0.184
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Tilted	0mm	2	26865	831.5	23.77	24.70	1.239	0.05	0.111	0.138
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Cheek	0mm	2	26865	831.5	24.67	25.70	1.268	0.12	0.316	0.401
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Cheek	0mm	2	26865	831.5	23.77	24.70	1.239	0.06	0.241	0.299
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Tilted	0mm	2	26865	831.5	24.67	25.70	1.268	-0.08	0.205	0.260
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Tilted	0mm	2	26865	831.5	23.77	24.70	1.239	0.13	0.162	0.201
	LTE ULCA_5B_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	2	20574+20475	841.4	23.19	23.70	1.125	0.03	0.201	0.226
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Cheek	0mm	3	26865	831.5	24.67	25.40	1.183	0.1	0.249	0.295
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Cheek	0mm	3	26865	831.5	23.77	24.70	1.239	-0.01	0.167	0.207
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Tilted	0mm	3	26865	831.5	24.67	25.40	1.183	-0.08	0.145	0.172
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Tilted	0mm	3	26865	831.5	23.77	24.70	1.239	0.05	0.111	0.138
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Cheek	0mm	3	26865	831.5	24.67	25.40	1.183	0.12	0.316	0.374
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Cheek	0mm	3	26865	831.5	23.77	24.70	1.239	0.06	0.241	0.299
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Tilted	0mm	3	26865	831.5	24.67	25.40	1.183	-0.08	0.205	0.243
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Tilted	0mm	3	26865	831.5	23.77	24.70	1.239	0.13	0.162	0.201
	LTE ULCA_5B_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	3	20574+20475	841.4	23.19	23.40	1.050	0.03	0.201	0.211
12	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Cheek	0mm	2	26865	831.5	20.06	21.40	1.361	0.03	0.718	0.978
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Cheek	0mm	2	26865	831.5	20.08	21.40	1.355	0.04	0.715	0.969
	LTE Band 26_Ant 1	15M	QPSK	75	0	Right Cheek	0mm	2	26865	831.5	20.08	21.40	1.355	0.08	0.713	0.966
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Tilted	0mm	2	26865	831.5	20.06	21.40	1.361	0.05	0.651	0.886
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Tilted	0mm	2	26865	831.5	20.08	21.40	1.355	-0.05	0.650	0.881
	LTE Band 26_Ant 1	15M	QPSK	75	0	Right Tilted	0mm	2	26865	831.5	20.08	21.40	1.355	-0.03	0.649	0.880
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	2	26865	831.5	20.06	21.40	1.361	0	0.486	0.662
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Cheek	0mm	2	26865	831.5	20.08	21.40	1.355	0.09	0.484	0.656
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Tilted	0mm	2	26865	831.5	20.06	21.40	1.361	-0.01	0.450	0.613
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Tilted	0mm	2	26865	831.5	20.08	21.40	1.355	-0.12	0.441	0.598
	LTE ULCA_5B_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	2	20574+20475	841.4	18.68	19.40	1.180	-0.08	0.603	0.712
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Cheek	0mm	3	26865	831.5	17.85	19.30	1.396	-0.13	0.427	0.596
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Cheek	0mm	3	26865	831.5	17.88	19.30	1.387	-0.13	0.423	0.587
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Tilted	0mm	3	26865	831.5	17.85	19.30	1.396	0.06	0.386	0.539
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Tilted	0mm	3	26865	831.5	17.88	19.30	1.387	-0.03	0.381	0.528
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	3	26865	831.5	17.85	19.30	1.396	-0.03	0.286	0.399
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Cheek	0mm	3	26865	831.5	17.88	19.30	1.387	0.08	0.284	0.394
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Tilted	0mm	3	26865	831.5	17.85	19.30	1.396	-0.07	0.261	0.364
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Tilted	0mm	3	26865	831.5	17.88	19.30	1.387	0.05	0.261	0.362
	LTE ULCA_5B_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	3	20574+20475	841.4	16.15	17.30	1.303	-0.11	0.331	0.431
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Cheek	0mm	3	26865	831.5	17.80	19.30	1.413	-0.12	0.411	0.581



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	2	27710	2310	24.33	25.70	1.371	-0.01	0.485	0.665
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Cheek	0mm	2	27710	2310	21.81	23.20	1.377	0.12	0.278	0.383
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Tilted	0mm	2	27710	2310	24.33	25.70	1.371	-0.08	0.187	0.256
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Tilted	0mm	2	27710	2310	21.81	23.20	1.377	-0.05	0.129	0.178
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Cheek	0mm	2	27710	2310	24.33	25.70	1.371	-0.04	0.244	0.334
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Cheek	0mm	2	27710	2310	21.81	23.20	1.377	0.11	0.157	0.216
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Tilted	0mm	2	27710	2310	24.33	25.70	1.371	0.09	0.233	0.319
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Tilted	0mm	2	27710	2310	21.81	23.20	1.377	-0.01	0.151	0.208
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Cheek	0mm	3	27710	2310	24.33	25.30	1.250	-0.01	0.485	0.606
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Cheek	0mm	3	27710	2310	21.81	22.80	1.256	0.12	0.278	0.349
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Tilted	0mm	3	27710	2310	24.33	25.30	1.250	-0.08	0.187	0.234
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Tilted	0mm	3	27710	2310	21.81	22.80	1.256	-0.05	0.129	0.162
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Cheek	0mm	3	27710	2310	24.33	25.30	1.250	-0.04	0.244	0.305
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Cheek	0mm	3	27710	2310	21.81	22.80	1.256	0.11	0.157	0.197
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Tilted	0mm	3	27710	2310	24.33	25.30	1.250	0.09	0.233	0.291
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Tilted	0mm	3	27710	2310	21.81	22.80	1.256	-0.01	0.151	0.190
	LTE Band 30_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	2/3	27710	2310	24.23	25.20	1.250	0.08	0.124	0.155
	LTE Band 30_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	2/3	27710	2310	21.66	22.70	1.271	0.08	0.093	0.118
	LTE Band 30_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	2/3	27710	2310	24.23	25.20	1.250	0.01	0.096	0.120
	LTE Band 30_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	2/3	27710	2310	21.66	22.70	1.271	0.03	0.073	0.093
	LTE Band 30_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	2/3	27710	2310	24.23	25.20	1.250	0.08	0.283	0.354
	LTE Band 30_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	2/3	27710	2310	21.66	22.70	1.271	-0.08	0.209	0.266
	LTE Band 30_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	2/3	27710	2310	24.23	25.20	1.250	-0.08	0.089	0.111
	LTE Band 30_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	2/3	27710	2310	21.66	22.70	1.271	0.1	0.069	0.088



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Report No. : FA451606B

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	2	40185	2549.5	24.60	25.70	1.288	62.9	1.006	0.08	0.478	0.619
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	39750	2506	24.48	25.70	1.324	62.9	1.006	0.03	0.439	0.585
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	40620	2593	24.40	25.70	1.349	62.9	1.006	-0.08	0.501	0.680
14	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41055	2636.5	24.41	25.70	1.346	62.9	1.006	-0.1	0.526	0.712
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41490	2680	24.53	25.70	1.309	62.9	1.006	-0.08	0.442	0.582
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2	40185	2549.5	23.64	24.70	1.276	62.9	1.006	0.1	0.394	0.506
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	2	40185	2549.5	24.60	25.70	1.288	62.9	1.006	-0.18	0.148	0.192
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	2	40185	2549.5	23.64	24.70	1.276	62.9	1.006	0.1	0.118	0.152
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	2	40185	2549.5	24.60	25.70	1.288	62.9	1.006	0	0.230	0.298
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	2	40185	2549.5	23.64	24.70	1.276	62.9	1.006	0.08	0.193	0.248
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	2	40185	2549.5	24.60	25.70	1.288	62.9	1.006	-0.17	0.148	0.192
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	2	40185	2549.5	23.64	24.70	1.276	62.9	1.006	-0.03	0.118	0.152
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	40185	2549.5	26.48	27.50	1.265	42.9	1.009	0.14	0.475	0.606
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	39750	2506	26.30	27.50	1.318	42.9	1.009	-0.05	0.404	0.537
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	40620	2593	26.29	27.50	1.321	42.9	1.009	0.18	0.519	0.692
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41055	2636.5	26.25	27.50	1.334	42.9	1.009	0.14	0.490	0.659
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41490	2680	26.31	27.50	1.315	42.9	1.009	-0.17	0.400	0.531
	LTE ULCA_41C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41490+41292	2680	22.41	23.70	1.346	62.9	1.006	0.08	0.336	0.455
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	40185	2549.5	24.60	25.00	1.096	62.9	1.006	0.08	0.478	0.527
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	39750	2506	24.48	25.00	1.127	62.9	1.006	0.03	0.439	0.498
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	40620	2593	24.40	25.00	1.148	62.9	1.006	-0.08	0.501	0.579
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41055	2636.5	24.41	25.00	1.146	62.9	1.006	-0.1	0.526	0.606
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41490	2680	24.53	25.00	1.114	62.9	1.006	-0.08	0.442	0.495
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	3	40185	2549.5	23.64	24.70	1.276	62.9	1.006	0.1	0.394	0.506
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	3	40185	2549.5	24.60	25.00	1.096	62.9	1.006	-0.18	0.148	0.163
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	3	40185	2549.5	23.64	24.70	1.276	62.9	1.006	0.1	0.118	0.152
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	3	40185	2549.5	24.60	25.00	1.096	62.9	1.006	0	0.230	0.254
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	3	40185	2549.5	23.64	24.70	1.276	62.9	1.006	0.08	0.193	0.248
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	3	40185	2549.5	24.60	25.00	1.096	62.9	1.006	-0.17	0.148	0.163
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	3	40185	2549.5	23.64	24.70	1.276	62.9	1.006	-0.03	0.118	0.152
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	40185	2549.5	26.48	26.60	1.028	42.9	1.009	0.14	0.475	0.493
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	39750	2506	26.30	26.60	1.072	42.9	1.009	-0.05	0.404	0.437
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	40620	2593	26.29	26.60	1.074	42.9	1.009	0.18	0.519	0.562
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41055	2636.5	26.25	26.60	1.084	42.9	1.009	0.14	0.490	0.536
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41490	2680	26.31	26.60	1.069	42.9	1.009	-0.17	0.400	0.431
	LTE ULCA_41C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41490+41292	2680	22.41	23.00	1.146	62.9	1.006	0.08	0.336	0.387
	LTE Band 41_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2/3	40620	2593	24.56	25.20	1.159	62.9	1.006	-0.01	0.078	0.091
	LTE Band 41_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	2/3	40620	2593	23.54	24.20	1.164	62.9	1.006	0.01	0.074	0.087
	LTE Band 41_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	2/3	40620	2593	24.56	25.20	1.159	62.9	1.006	0.03	0.079	0.092
	LTE Band 41_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	2/3	40620	2593	23.54	24.20	1.164	62.9	1.006	-0.08	0.076	0.089
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	40620	2593	24.56	25.20	1.159	62.9	1.006	-0.11	0.210	0.245
	LTE Band 41_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	2/3	40620	2593	23.54	24.20	1.164	62.9	1.006	-0.08	0.178	0.208
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	2/3	40620	2593	24.56	25.20	1.159	62.9	1.006	0.1	0.077	0.090
	LTE Band 41_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	2/3	40620	2593	23.54	24.20	1.164	62.9	1.006	-0.18	0.065	0.076
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	40620	2593	26.29	27.00	1.178	42.9	1.009	0.1	0.204	0.242
	LTE ULCA_41C_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	41490+41292	2680	22.51	23.20	1.172	62.9	1.006	0.03	0.077	0.091



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	Right Cheek	0mm	2/3	55830	3609	24.03	24.70	1.167	62.9	1.006	-0.01	0.255	0.299
	LTE Band 48_Ant 6	20M	QPSK	50	0	Right Cheek	0mm	2/3	55830	3609	22.10	23.70	1.445	62.9	1.006	0.15	0.157	0.228
	LTE Band 48_Ant 6	20M	QPSK	1	0	Right Tilted	0mm	2/3	55830	3609	24.03	24.70	1.167	62.9	1.006	0.06	0.197	0.231
	LTE Band 48_Ant 6	20M	QPSK	50	0	Right Tilted	0mm	2/3	55830	3609	22.10	23.70	1.445	62.9	1.006	0.08	0.112	0.163
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	2/3	55830	3609	24.03	24.70	1.167	62.9	1.006	-0.03	0.353	0.414
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Cheek	0mm	2/3	55830	3609	22.10	23.70	1.445	62.9	1.006	0.03	0.205	0.298
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Tilted	0mm	2/3	55830	3609	24.03	24.70	1.167	62.9	1.006	-0.08	0.143	0.168
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Tilted	0mm	2/3	55830	3609	22.10	23.70	1.445	62.9	1.006	-0.08	0.079	0.115
15	LTE Band 48_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2/3	56150	3641	23.69	24.50	1.205	62.9	1.006	-0.05	0.484	0.587
	LTE Band 48_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2/3	56150	3641	21.68	23.50	1.521	62.9	1.006	-0.18	0.324	0.496
	LTE Band 48_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	2/3	56150	3641	23.69	24.50	1.205	62.9	1.006	0.13	0.208	0.252
	LTE Band 48_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	2/3	56150	3641	21.68	23.50	1.521	62.9	1.006	0.12	0.105	0.161
	LTE Band 48_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	2/3	56150	3641	23.69	24.50	1.205	62.9	1.006	-0.03	0.262	0.318
	LTE Band 48_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	2/3	56150	3641	21.68	23.50	1.521	62.9	1.006	-0.17	0.196	0.300
	LTE Band 48_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	2/3	56150	3641	23.69	24.50	1.205	62.9	1.006	-0.03	0.252	0.305
	LTE Band 48_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	2/3	56150	3641	21.68	23.50	1.521	62.9	1.006	0.14	0.160	0.245

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	Right Cheek	0mm	2/3	132322	1745	24.24	25.70	1.400	-0.13	0.371	0.519
	LTE Band 66_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2/3	132322	1745	23.68	24.70	1.265	-0.18	0.402	0.508
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	2/3	132322	1745	24.65	25.70	1.274	0.1	0.177	0.225
	LTE Band 66_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	2/3	132322	1745	23.68	24.70	1.265	0.12	0.178	0.225
	LTE Band 66_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	2/3	132322	1745	24.65	25.70	1.274	0.11	0.200	0.255
	LTE Band 66_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	2/3	132322	1745	23.68	24.70	1.265	0.08	0.160	0.202
	LTE Band 66_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	2/3	132322	1745	24.65	25.70	1.274	-0.17	0.210	0.267
	LTE Band 66_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	2/3	132322	1745	23.68	24.70	1.265	-0.03	0.167	0.211
	LTE ULCA_66B_Ant 2	15M	QPSK	1	74	Right Cheek	0mm	2/3	132047+132140	1717.5	22.09	23.70	1.449	-0.08	0.172	0.249
	LTE ULCA_66C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2/3	132572+132374	1770	22.13	23.70	1.435	0.1	0.233	0.334
	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2/3	132322	1745	24.64	25.20	1.138	0.09	0.220	0.250
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	2/3	132322	1745	23.61	24.20	1.146	0.08	0.155	0.178
	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	2/3	132322	1745	24.64	25.20	1.138	0.01	0.156	0.177
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	2/3	132322	1745	23.61	24.20	1.146	0.03	0.138	0.158
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	132322	1745	24.60	25.20	1.148	-0.14	0.402	0.462
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	2/3	132322	1745	23.61	24.20	1.146	-0.08	0.308	0.353
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	2/3	132322	1745	24.64	25.20	1.138	-0.08	0.162	0.184
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	2/3	132322	1745	23.61	24.20	1.146	0.1	0.120	0.137
	LTE ULCA_66B_Ant 0	15M	QPSK	1	0	Left Cheek	0mm	2/3	132597+132504	1772.5	22.18	23.20	1.265	-0.18	0.239	0.302
	LTE ULCA_66C_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	132572+132374	1770	22.70	23.20	1.122	0.1	0.273	0.306
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	2	132322	1745	14.63	16.3	1.469	-0.19	0.489	0.718
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	132322	1745	14.62	16.3	1.472	0.01	0.485	0.714
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	132322	1745	14.63	16.3	1.469	-0.16	0.545	0.801
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	132322	1745	14.62	16.3	1.472	-0.09	0.467	0.688
	LTE Band 66_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	2	132322	1745	14.6	16.3	1.479	-0.09	0.460	0.680
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	2	132322	1745	14.63	16.3	1.469	-0.02	0.169	0.248
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	2	132322	1745	14.62	16.3	1.472	0.05	0.146	0.215
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	2	132322	1745	14.63	16.3	1.469	0.06	0.172	0.253
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	2	132322	1745	14.62	16.3	1.472	0.07	0.169	0.249
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	3	132322	1745	14.63	15.5	1.222	-0.19	0.489	0.597
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	3	132322	1745	14.62	15.5	1.225	0.01	0.485	0.594



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	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	3	132322	1745	14.63	15.5	1.222	-0.16	0.545	0.666
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	3	132322	1745	14.62	15.5	1.225	-0.09	0.467	0.572
	LTE Band 66_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	3	132322	1745	14.6	15.5	1.230	-0.09	0.460	0.566
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	3	132322	1745	14.63	15.5	1.222	-0.02	0.169	0.206
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	3	132322	1745	14.62	15.5	1.225	0.05	0.146	0.179
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	3	132322	1745	14.63	15.5	1.222	0.06	0.172	0.210
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	3	132322	1745	14.62	15.5	1.225	0.07	0.169	0.207
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	2	132322	1745	18.25	19.70	1.396	-0.01	0.264	0.369
	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Cheek	0mm	2	132322	1745	18.25	19.70	1.396	0.09	0.243	0.339
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	2	132322	1745	18.25	19.70	1.396	-0.12	0.160	0.223
	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Tilted	0mm	2	132322	1745	18.25	19.70	1.396	-0.03	0.163	0.228
16	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	2	132322	1745	18.25	19.70	1.396	0	0.700	0.977
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	2	132072	1720	18.15	19.70	1.429	0.05	0.556	0.794
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	2	132572	1770	18.24	19.70	1.400	0.07	0.599	0.838
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	132322	1745	18.25	19.70	1.396	0.02	0.687	0.959
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	132072	1720	18.21	19.70	1.409	-0.06	0.545	0.768
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	132572	1770	18.22	19.70	1.406	0.03	0.693	0.974
	LTE Band 66_Ant 5	20M	QPSK	100	0	Left Cheek	0mm	2	132322	1745	18.21	19.70	1.409	-0.04	0.588	0.829
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	2	132322	1745	18.25	19.70	1.396	-0.03	0.344	0.480
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Tilted	0mm	2	132322	1745	18.25	19.70	1.396	-0.1	0.325	0.454
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	3	132322	1745	18.25	18.50	1.059	-0.01	0.264	0.280
	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Cheek	0mm	3	132322	1745	18.25	18.50	1.059	0.09	0.243	0.257
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	3	132322	1745	18.25	18.50	1.059	-0.12	0.160	0.169
	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Tilted	0mm	3	132322	1745	18.25	18.50	1.059	-0.03	0.163	0.173
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	3	132322	1745	18.25	18.50	1.059	0	0.700	0.741
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	3	132322	1745	18.25	18.50	1.059	0.02	0.687	0.728
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	3	132322	1745	18.25	18.50	1.059	-0.03	0.344	0.364
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Tilted	0mm	3	132322	1745	18.25	18.50	1.059	-0.1	0.325	0.344
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2/3	133297	680.5	24.77	25.70	1.239	0.1	0.173	0.214
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	2/3	133297	680.5	23.82	24.70	1.225	0.08	0.118	0.145
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	2/3	133297	680.5	24.77	25.70	1.239	0.01	0.088	0.109
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	2/3	133297	680.5	23.82	24.70	1.225	0.03	0.070	0.086
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	133297	680.5	24.77	25.70	1.239	0.15	0.180	0.223
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	2/3	133297	680.5	23.82	24.70	1.225	-0.08	0.140	0.171
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	2/3	133297	680.5	24.77	25.70	1.239	-0.08	0.118	0.146
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	2/3	133297	680.5	23.82	24.70	1.225	0.1	0.095	0.116
17	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	2	133297	680.5	21.21	22.50	1.346	0.01	0.736	0.991
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	133297	680.5	21.30	22.50	1.318	0.08	0.737	0.972
	LTE Band 71_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	2	133297	680.5	21.17	22.50	1.358	0.13	0.697	0.947
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	133297	680.5	21.21	22.50	1.346	0.02	0.615	0.828
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	133297	680.5	21.30	22.50	1.318	0.05	0.620	0.817
	LTE Band 71_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	2	133297	680.5	21.17	22.50	1.358	0.13	0.574	0.780
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	2	133297	680.5	21.21	22.50	1.346	0.02	0.392	0.528
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	2	133297	680.5	21.30	22.50	1.318	0.08	0.382	0.504
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	2	133297	680.5	21.21	22.50	1.346	0.01	0.321	0.432
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	2	133297	680.5	21.30	22.50	1.318	0.05	0.323	0.426
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	3	133297	680.5	19.16	20.30	1.300	0.19	0.459	0.597
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	3	133297	680.5	19.23	20.30	1.279	0.07	0.449	0.574
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	3	133297	680.5	19.16	20.30	1.300	-0.18	0.374	0.486
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	3	133297	680.5	19.23	20.30	1.279	0.03	0.378	0.484
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	3	133297	680.5	19.16	20.30	1.300	-0.15	0.238	0.309
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	3	133297	680.5	19.23	20.30	1.279	-0.15	0.233	0.298
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	3	133297	680.5	19.16	20.30	1.300	0.11	0.198	0.257
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	3	133297	680.5	19.23	20.30	1.279	-0.08	0.199	0.255

**<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)
18	FR1 n7_Ant 2	50M	BPSK	1	1	Right Cheek	0mm	2	507000	2535	23.73	25.40	1.469	-0.11	0.581	0.853
	FR1 n7_Ant 2	50M	BPSK	135	68	Right Cheek	0mm	2	507000	2535	23.63	25.40	1.503	-0.08	0.434	0.652
	FR1 n7_Ant 2	50M	BPSK	270	0	Right Cheek	0mm	2	507000	2535	23.68	25.20	1.419	-0.17	0.429	0.609
	FR1 n7_Ant 2	50M	BPSK	1	1	Right Tilted	0mm	2	507000	2535	23.73	25.40	1.469	0.12	0.164	0.241
	FR1 n7_Ant 2	50M	BPSK	135	68	Right Tilted	0mm	2	507000	2535	23.63	25.40	1.503	0.18	0.120	0.180
	FR1 n7_Ant 2	50M	BPSK	1	1	Left Cheek	0mm	2	507000	2535	23.73	25.40	1.469	0.01	0.269	0.395
	FR1 n7_Ant 2	50M	BPSK	135	68	Left Cheek	0mm	2	507000	2535	23.63	25.40	1.503	0	0.167	0.251
	FR1 n7_Ant 2	50M	BPSK	1	1	Left Tilted	0mm	2	507000	2535	23.73	25.40	1.469	0.01	0.178	0.261
	FR1 n7_Ant 2	50M	BPSK	135	68	Left Tilted	0mm	2	507000	2535	23.63	25.40	1.503	-0.06	0.119	0.179
	FR1 n7_Ant 2	50M	BPSK	1	1	Right Cheek	0mm	3	507000	2535	23.73	23.90	1.040	-0.11	0.581	0.604
	FR1 n7_Ant 2	50M	BPSK	135	68	Right Cheek	0mm	3	507000	2535	23.63	23.90	1.064	-0.08	0.434	0.462
	FR1 n7_Ant 2	50M	BPSK	1	1	Right Tilted	0mm	3	507000	2535	23.73	23.90	1.040	0.12	0.164	0.171
	FR1 n7_Ant 2	50M	BPSK	135	68	Right Tilted	0mm	3	507000	2535	23.63	23.90	1.064	0.18	0.120	0.128
	FR1 n7_Ant 2	50M	BPSK	1	1	Left Cheek	0mm	3	507000	2535	23.73	23.90	1.040	0.01	0.269	0.280
	FR1 n7_Ant 2	50M	BPSK	135	68	Left Cheek	0mm	3	507000	2535	23.63	23.90	1.064	0	0.167	0.178
	FR1 n7_Ant 2	50M	BPSK	1	1	Left Tilted	0mm	3	507000	2535	23.73	23.90	1.040	0.01	0.178	0.185
	FR1 n7_Ant 2	50M	BPSK	135	68	Left Tilted	0mm	3	507000	2535	23.63	23.90	1.064	-0.06	0.119	0.127
	FR1 n7_Ant 0	50M	BPSK	1	1	Right Cheek	0mm	2	507000	2535	24.47	25.20	1.183	-0.07	0.210	0.248
	FR1 n7_Ant 0	50M	BPSK	135	68	Right Cheek	0mm	2	507000	2535	24.33	25.20	1.222	0.08	0.199	0.243
	FR1 n7_Ant 0	50M	BPSK	1	1	Right Tilted	0mm	2	507000	2535	24.47	25.20	1.183	0.01	0.161	0.190
	FR1 n7_Ant 0	50M	BPSK	135	68	Right Tilted	0mm	2	507000	2535	24.33	25.20	1.222	0.03	0.180	0.220
	FR1 n7_Ant 0	50M	BPSK	1	1	Left Cheek	0mm	2	507000	2535	24.47	25.20	1.183	0.08	0.508	0.601
	FR1 n7_Ant 0	50M	BPSK	135	68	Left Cheek	0mm	2	507000	2535	24.33	25.20	1.222	-0.08	0.426	0.520
	FR1 n7_Ant 0	50M	BPSK	1	1	Left Tilted	0mm	2	507000	2535	24.47	25.20	1.183	-0.08	0.152	0.180
	FR1 n7_Ant 0	50M	BPSK	135	68	Left Tilted	0mm	2	507000	2535	24.33	25.20	1.222	0.1	0.159	0.194
	FR1 n7_Ant 0	50M	BPSK	1	1	Right Cheek	0mm	3	507000	2535	24.47	24.80	1.079	-0.07	0.210	0.227
	FR1 n7_Ant 0	50M	BPSK	135	68	Right Cheek	0mm	3	507000	2535	24.33	24.80	1.114	0.08	0.199	0.222
	FR1 n7_Ant 0	50M	BPSK	1	1	Right Tilted	0mm	3	507000	2535	24.47	24.80	1.079	0.01	0.161	0.174
	FR1 n7_Ant 0	50M	BPSK	135	68	Right Tilted	0mm	3	507000	2535	24.33	24.80	1.114	0.03	0.180	0.201
	FR1 n7_Ant 0	50M	BPSK	1	1	Left Cheek	0mm	3	507000	2535	24.47	24.80	1.079	0.08	0.508	0.548
	FR1 n7_Ant 0	50M	BPSK	135	68	Left Cheek	0mm	3	507000	2535	24.33	24.80	1.114	-0.08	0.426	0.475
	FR1 n7_Ant 0	50M	BPSK	1	1	Left Tilted	0mm	3	507000	2535	24.47	24.80	1.079	-0.08	0.152	0.164
	FR1 n7_Ant 0	50M	BPSK	135	68	Left Tilted	0mm	3	507000	2535	24.33	24.80	1.114	0.1	0.159	0.177

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	BPSK	1	1	Right Cheek	0mm	2/3	141500	707.5	24.81	25.70	1.227	0.14	0.167	0.205
	FR1 n12_Ant 0	15M	BPSK	36	22	Right Cheek	0mm	2/3	141500	707.5	24.80	25.70	1.230	0.02	0.209	0.257
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Tilted	0mm	2/3	141500	707.5	24.81	25.70	1.227	0.17	0.101	0.124
	FR1 n12_Ant 0	15M	BPSK	36	22	Right Tilted	0mm	2/3	141500	707.5	24.80	25.70	1.230	-0.05	0.102	0.125
	FR1 n12_Ant 0	15M	BPSK	1	1	Left Cheek	0mm	2/3	141500	707.5	24.81	25.70	1.227	0.01	0.207	0.254
	FR1 n12_Ant 0	15M	BPSK	36	22	Left Cheek	0mm	2/3	141500	707.5	24.80	25.70	1.230	-0.05	0.238	0.293
	FR1 n12_Ant 0	15M	BPSK	1	1	Left Tilted	0mm	2/3	141500	707.5	24.81	25.70	1.227	-0.05	0.150	0.184
	FR1 n12_Ant 0	15M	BPSK	36	22	Left Tilted	0mm	2/3	141500	707.5	24.80	25.70	1.230	0.18	0.177	0.218
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Cheek	0mm	2	141500	707.5	20.47	22.10	1.455	0.05	0.589	0.857
19	FR1 n12_Ant 1	15M	BPSK	36	22	Right Cheek	0mm	2	141500	707.5	20.46	22.10	1.459	-0.12	0.594	0.867
	FR1 n12_Ant 1	15M	BPSK	75	0	Right Cheek	0mm	2	141500	707.5	20.46	22.10	1.459	0.06	0.593	0.865
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Tilted	0mm	2	141500	707.5	20.47	22.10	1.455	0.01	0.530	0.771
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Tilted	0mm	2	141500	707.5	20.46	22.10	1.459	-0.13	0.539	0.786
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	2	141500	707.5	20.47	22.10	1.455	-0.03	0.314	0.457
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Cheek	0mm	2	141500	707.5	20.46	22.10	1.459	-0.09	0.334	0.487
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Tilted	0mm	2	141500	707.5	20.47	22.10	1.455	0.08	0.386	0.562
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Tilted	0mm	2	141500	707.5	20.46	22.10	1.459	0.04	0.395	0.576
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Cheek	0mm	3	141500	707.5	20.47	20.50	1.007	0.05	0.589	0.593
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Cheek	0mm	3	141500	707.5	20.46	20.50	1.009	-0.12	0.594	0.599
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Tilted	0mm	3	141500	707.5	20.47	20.50	1.007	0.01	0.530	0.534
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Tilted	0mm	3	141500	707.5	20.46	20.50	1.009	-0.13	0.539	0.544
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	3	141500	707.5	20.47	20.50	1.007	-0.03	0.314	0.316
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Cheek	0mm	3	141500	707.5	20.46	20.50	1.009	-0.09	0.334	0.337
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Tilted	0mm	3	141500	707.5	20.47	20.50	1.007	0.08	0.386	0.389
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Tilted	0mm	3	141500	707.5	20.46	20.50	1.009	0.04	0.395	0.399

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 n14_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	2	158600	793	24.90	25.70	1.202	0.08	0.207	0.249
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Cheek	0mm	2	158600	793	24.88	25.70	1.208	0.02	0.272	0.329
	FR1 n14_Ant 0	10M	BPSK	1	1	Right Tilted	0mm	2	158600	793	24.90	25.70	1.202	0.03	0.142	0.171
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Tilted	0mm	2	158600	793	24.88	25.70	1.208	-0.08	0.153	0.185
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Cheek	0mm	2	158600	793	24.90	25.70	1.202	0.18	0.300	0.361
	FR1 n14_Ant 0	10M	BPSK	25	14	Left Cheek	0mm	2	158600	793	24.88	25.70	1.208	-0.08	0.284	0.343
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Tilted	0mm	2	158600	793	24.90	25.70	1.202	0.1	0.199	0.239
	FR1 n14_Ant 0	10M	BPSK	25	14	Left Tilted	0mm	2	158600	793	24.88	25.70	1.208	-0.18	0.200	0.242
	FR1 n14_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	3	158600	793	24.90	25.20	1.072	0.08	0.207	0.222
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Cheek	0mm	3	158600	793	24.88	25.20	1.076	0.02	0.272	0.293
	FR1 n14_Ant 0	10M	BPSK	1	1	Right Tilted	0mm	3	158600	793	24.90	25.20	1.072	0.03	0.142	0.152
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Tilted	0mm	3	158600	793	24.88	25.20	1.076	-0.08	0.153	0.165
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Cheek	0mm	3	158600	793	24.90	25.20	1.072	0.18	0.300	0.321
	FR1 n14_Ant 0	10M	BPSK	25	14	Left Cheek	0mm	3	158600	793	24.88	25.20	1.076	-0.08	0.284	0.306
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Tilted	0mm	3	158600	793	24.90	25.20	1.072	0.1	0.199	0.213
	FR1 n14_Ant 0	10M	BPSK	25	14	Left Tilted	0mm	3	158600	793	24.88	25.20	1.076	-0.18	0.200	0.215
	FR1 n14_Ant 1	10M	BPSK	1	1	Right Cheek	0mm	2	158600	793	20.65	22.30	1.462	-0.12	0.540	0.790
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Cheek	0mm	2	158600	793	20.63	22.30	1.469	-0.13	0.532	0.781
	FR1 n14_Ant 1	10M	BPSK	50	0	Right Cheek	0mm	2	158600	793	20.60	22.30	1.479	-0.02	0.531	0.785
20	FR1 n14_Ant 1	10M	BPSK	1	1	Right Tilted	0mm	2	158600	793	20.65	22.30	1.462	-0.08	0.558	0.816
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Tilted	0mm	2	158600	793	20.63	22.30	1.469	0.09	0.551	0.809
	FR1 n14_Ant 1	10M	BPSK	50	0	Right Tilted	0mm	2	158600	793	20.60	22.30	1.479	0.12	0.549	0.812
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	2	158600	793	20.65	22.30	1.462	-0.04	0.421	0.616
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Cheek	0mm	2	158600	793	20.63	22.30	1.469	0.11	0.418	0.614
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Tilted	0mm	2	158600	793	20.65	22.30	1.462	0	0.402	0.588
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Tilted	0mm	2	158600	793	20.63	22.30	1.469	0.18	0.394	0.579
	FR1 n14_Ant 1	10M	BPSK	1	1	Right Cheek	0mm	3	158600	793	20.65	21.10	1.109	-0.12	0.540	0.599
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Cheek	0mm	3	158600	793	20.63	21.10	1.114	-0.13	0.532	0.593
	FR1 n14_Ant 1	10M	BPSK	1	1	Right Tilted	0mm	3	158600	793	20.65	21.10	1.109	-0.08	0.558	0.619
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Tilted	0mm	3	158600	793	20.63	21.10	1.114	0.09	0.551	0.614
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	3	158600	793	20.65	21.10	1.109	-0.04	0.421	0.467
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Cheek	0mm	3	158600	793	20.63	21.10	1.114	0.11	0.418	0.466
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Tilted	0mm	3	158600	793	20.65	21.10	1.109	0	0.402	0.446
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Tilted	0mm	3	158600	793	20.63	21.10	1.114	0.18	0.394	0.439



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	BPSK	1	1	Right Cheek	0mm	2	376500	1882.5	24.58	25.70	1.294	-0.12	0.649	0.840
	FR1 n25_Ant 2	40M	BPSK	108	54	Right Cheek	0mm	2	376500	1882.5	24.51	25.70	1.315	0.08	0.565	0.743
	FR1 n25_Ant 2	40M	BPSK	216	0	Right Cheek	0mm	2	376500	1882.5	23.97	25.20	1.327	0.05	0.556	0.738
	FR1 n25_Ant 2	40M	BPSK	1	1	Right Tilted	0mm	2	376500	1882.5	24.58	25.70	1.294	0	0.226	0.292
	FR1 n25_Ant 2	40M	BPSK	108	54	Right Tilted	0mm	2	376500	1882.5	24.51	25.70	1.315	0.01	0.139	0.183
	FR1 n25_Ant 2	40M	BPSK	1	1	Left Cheek	0mm	2	376500	1882.5	24.58	25.70	1.294	-0.08	0.266	0.344
	FR1 n25_Ant 2	40M	BPSK	108	54	Left Cheek	0mm	2	376500	1882.5	24.51	25.70	1.315	0.03	0.153	0.201
	FR1 n25_Ant 2	40M	BPSK	1	1	Left Tilted	0mm	2	376500	1882.5	24.58	25.70	1.294	-0.08	0.215	0.278
	FR1 n25_Ant 2	40M	BPSK	108	54	Left Tilted	0mm	2	376500	1882.5	24.51	25.70	1.315	-0.08	0.107	0.141
	FR1 n25_Ant 2	40M	BPSK	1	1	Right Cheek	0mm	3	376500	1882.5	23.31	24.30	1.256	-0.17	0.480	0.603
	FR1 n25_Ant 2	40M	BPSK	108	54	Right Cheek	0mm	3	376500	1882.5	23.15	24.30	1.303	-0.08	0.406	0.529
	FR1 n25_Ant 2	40M	BPSK	1	1	Right Tilted	0mm	3	376500	1882.5	23.31	24.30	1.256	-0.04	0.161	0.202
	FR1 n25_Ant 2	40M	BPSK	108	54	Right Tilted	0mm	3	376500	1882.5	23.15	24.30	1.303	-0.08	0.097	0.126
	FR1 n25_Ant 2	40M	BPSK	1	1	Left Cheek	0mm	3	376500	1882.5	23.31	24.30	1.256	0.17	0.189	0.237
	FR1 n25_Ant 2	40M	BPSK	108	54	Left Cheek	0mm	3	376500	1882.5	23.15	24.30	1.303	0.18	0.110	0.143
	FR1 n25_Ant 2	40M	BPSK	1	1	Left Tilted	0mm	3	376500	1882.5	23.31	24.30	1.256	-0.04	0.159	0.200
	FR1 n25_Ant 2	40M	BPSK	108	54	Left Tilted	0mm	3	376500	1882.5	23.15	24.30	1.303	-0.08	0.071	0.093
	FR1 n25_Ant 0	40M	BPSK	1	1	Right Cheek	0mm	2	376500	1882.5	24.30	25.20	1.230	0.08	0.236	0.290
	FR1 n25_Ant 0	40M	BPSK	108	54	Right Cheek	0mm	2	376500	1882.5	24.17	25.20	1.268	-0.05	0.257	0.326
	FR1 n25_Ant 0	40M	BPSK	1	1	Right Tilted	0mm	2	376500	1882.5	24.30	25.20	1.230	0.01	0.206	0.253
	FR1 n25_Ant 0	40M	BPSK	108	54	Right Tilted	0mm	2	376500	1882.5	24.17	25.20	1.268	0.03	0.219	0.278
	FR1 n25_Ant 0	40M	BPSK	1	1	Left Cheek	0mm	2	376500	1882.5	24.30	25.20	1.230	0.06	0.550	0.677
	FR1 n25_Ant 0	40M	BPSK	108	54	Left Cheek	0mm	2	376500	1882.5	24.17	25.20	1.268	-0.08	0.517	0.655
	FR1 n25_Ant 0	40M	BPSK	1	1	Left Tilted	0mm	2	376500	1882.5	24.30	25.20	1.230	-0.08	0.190	0.234
	FR1 n25_Ant 0	40M	BPSK	108	54	Left Tilted	0mm	2	376500	1882.5	24.17	25.20	1.268	0.1	0.185	0.235
	FR1 n25_Ant 0	40M	BPSK	1	1	Right Cheek	0mm	3	376500	1882.5	24.30	24.30	1.000	0.08	0.236	0.236
	FR1 n25_Ant 0	40M	BPSK	108	54	Right Cheek	0mm	3	376500	1882.5	24.17	24.30	1.030	-0.05	0.257	0.265
	FR1 n25_Ant 0	40M	BPSK	1	1	Right Tilted	0mm	3	376500	1882.5	24.30	24.30	1.000	0.01	0.206	0.206
	FR1 n25_Ant 0	40M	BPSK	108	54	Right Tilted	0mm	3	376500	1882.5	24.17	24.30	1.030	0.03	0.219	0.226
	FR1 n25_Ant 0	40M	BPSK	1	1	Left Cheek	0mm	3	376500	1882.5	24.30	24.30	1.000	0.06	0.550	0.550
	FR1 n25_Ant 0	40M	BPSK	108	54	Left Cheek	0mm	3	376500	1882.5	24.17	24.30	1.030	-0.08	0.517	0.533
	FR1 n25_Ant 0	40M	BPSK	1	1	Left Tilted	0mm	3	376500	1882.5	24.30	24.30	1.000	-0.08	0.190	0.190
	FR1 n25_Ant 0	40M	BPSK	108	54	Left Tilted	0mm	3	376500	1882.5	24.17	24.30	1.030	0.1	0.185	0.191

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	BPSK	1	1	Right Cheek	0mm	2	166300	831.5	25.12	25.70	1.143	0.08	0.248	0.283
	FR1 n26_Ant 0	20M	BPSK	50	28	Right Cheek	0mm	2	166300	831.5	25.03	25.70	1.167	-0.16	0.266	0.310
	FR1 n26_Ant 0	20M	BPSK	1	1	Right Tilted	0mm	2	166300	831.5	25.12	25.70	1.143	-0.03	0.158	0.181
	FR1 n26_Ant 0	20M	BPSK	50	28	Right Tilted	0mm	2	166300	831.5	25.03	25.70	1.167	0.14	0.166	0.194
	FR1 n26_Ant 0	20M	BPSK	1	1	Left Cheek	0mm	2	166300	831.5	25.12	25.70	1.143	0.11	0.351	0.401
	FR1 n26_Ant 0	20M	BPSK	50	28	Left Cheek	0mm	2	166300	831.5	25.03	25.70	1.167	-0.11	0.355	0.414
	FR1 n26_Ant 0	20M	BPSK	1	1	Left Tilted	0mm	2	166300	831.5	25.12	25.70	1.143	0.12	0.212	0.242
	FR1 n26_Ant 0	20M	BPSK	50	28	Left Tilted	0mm	2	166300	831.5	25.03	25.70	1.167	0.1	0.235	0.274
	FR1 n26_Ant 0	20M	BPSK	1	1	Right Cheek	0mm	3	166300	831.5	25.12	25.50	1.091	0.08	0.248	0.271
	FR1 n26_Ant 0	20M	BPSK	50	28	Right Cheek	0mm	3	166300	831.5	25.03	25.50	1.114	-0.16	0.266	0.296
	FR1 n26_Ant 0	20M	BPSK	1	1	Right Tilted	0mm	3	166300	831.5	25.12	25.50	1.091	-0.03	0.158	0.172
	FR1 n26_Ant 0	20M	BPSK	50	28	Right Tilted	0mm	3	166300	831.5	25.03	25.50	1.114	0.14	0.166	0.185
	FR1 n26_Ant 0	20M	BPSK	1	1	Left Cheek	0mm	3	166300	831.5	25.12	25.50	1.091	0.11	0.351	0.383
	FR1 n26_Ant 0	20M	BPSK	50	28	Left Cheek	0mm	3	166300	831.5	25.03	25.50	1.114	-0.11	0.355	0.396
	FR1 n26_Ant 0	20M	BPSK	1	1	Left Tilted	0mm	3	166300	831.5	25.12	25.50	1.091	0.12	0.212	0.231
	FR1 n26_Ant 0	20M	BPSK	50	28	Left Tilted	0mm	3	166300	831.5	25.03	25.50	1.114	0.1	0.235	0.262
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	2	166300	831.5	19.90	21.50	1.445	0.08	0.580	0.838
22	FR1 n26_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	2	166300	831.5	19.85	21.50	1.462	0	0.604	0.883
	FR1 n26_Ant 1	20M	BPSK	100	0	Right Cheek	0mm	2	166300	831.5	19.78	21.50	1.486	0.01	0.590	0.877
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	2	166300	831.5	19.90	21.50	1.445	0.03	0.435	0.629
	FR1 n26_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	2	166300	831.5	19.85	21.50	1.462	0.13	0.448	0.655
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	2	166300	831.5	19.90	21.50	1.445	-0.08	0.264	0.382
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	2	166300	831.5	19.85	21.50	1.462	0.01	0.285	0.417
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	2	166300	831.5	19.90	21.50	1.445	-0.18	0.338	0.489
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	2	166300	831.5	19.85	21.50	1.462	0	0.347	0.507
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	3	166300	831.5	18.59	19.80	1.321	0.16	0.428	0.566
	FR1 n26_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	3	166300	831.5	18.46	19.80	1.361	0.05	0.432	0.588
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	3	166300	831.5	18.59	19.80	1.321	0.05	0.313	0.414
	FR1 n26_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	3	166300	831.5	18.46	19.80	1.361	-0.03	0.323	0.440
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	3	166300	831.5	18.59	19.80	1.321	-0.15	0.185	0.244
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	3	166300	831.5	18.46	19.80	1.361	0.02	0.206	0.280
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	3	166300	831.5	18.59	19.80	1.321	0.07	0.248	0.328
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	3	166300	831.5	18.46	19.80	1.361	0.16	0.242	0.329

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	BPSK	1	1	Right Cheek	0mm	2	462000	2310	24.77	25.70	1.239	-0.18	0.509	0.631
	FR1 n30_Ant 2	10M	BPSK	25	14	Right Cheek	0mm	2	462000	2310	24.67	25.70	1.268	-0.06	0.522	0.662
	FR1 n30_Ant 2	10M	BPSK	1	1	Right Tilted	0mm	2	462000	2310	24.77	25.70	1.239	0.1	0.189	0.234
	FR1 n30_Ant 2	10M	BPSK	25	14	Right Tilted	0mm	2	462000	2310	24.67	25.70	1.268	0.12	0.193	0.245
	FR1 n30_Ant 2	10M	BPSK	1	1	Left Cheek	0mm	2	462000	2310	24.77	25.70	1.239	0.17	0.282	0.349
	FR1 n30_Ant 2	10M	BPSK	25	14	Left Cheek	0mm	2	462000	2310	24.67	25.70	1.268	0.08	0.280	0.355
	FR1 n30_Ant 2	10M	BPSK	1	1	Left Tilted	0mm	2	462000	2310	24.77	25.70	1.239	-0.17	0.218	0.270
	FR1 n30_Ant 2	10M	BPSK	25	14	Left Tilted	0mm	2	462000	2310	24.67	25.70	1.268	-0.03	0.213	0.270
	FR1 n30_Ant 2	10M	BPSK	1	1	Right Cheek	0mm	3	462000	2310	24.77	25.30	1.130	-0.18	0.509	0.575
	FR1 n30_Ant 2	10M	BPSK	25	14	Right Cheek	0mm	3	462000	2310	24.67	25.30	1.156	-0.06	0.522	0.603
	FR1 n30_Ant 2	10M	BPSK	1	1	Right Tilted	0mm	3	462000	2310	24.77	25.30	1.130	0.1	0.189	0.214
	FR1 n30_Ant 2	10M	BPSK	25	14	Right Tilted	0mm	3	462000	2310	24.67	25.30	1.156	0.12	0.193	0.223
	FR1 n30_Ant 2	10M	BPSK	1	1	Left Cheek	0mm	3	462000	2310	24.77	25.30	1.130	0.17	0.282	0.319
	FR1 n30_Ant 2	10M	BPSK	25	14	Left Cheek	0mm	3	462000	2310	24.67	25.30	1.156	0.08	0.280	0.324
	FR1 n30_Ant 2	10M	BPSK	1	1	Left Tilted	0mm	3	462000	2310	24.77	25.30	1.130	-0.17	0.218	0.246
	FR1 n30_Ant 2	10M	BPSK	25	14	Left Tilted	0mm	3	462000	2310	24.67	25.30	1.156	-0.03	0.213	0.246
	FR1 n30_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	2/3	462000	2310	24.33	25.20	1.222	0.08	0.130	0.159
	FR1 n30_Ant 0	10M	BPSK	25	14	Right Cheek	0mm	2/3	462000	2310	24.19	25.20	1.262	-0.11	0.137	0.173
	FR1 n30_Ant 0	10M	BPSK	1	1	Right Tilted	0mm	2/3	462000	2310	24.33	25.20	1.222	0.01	0.106	0.130
	FR1 n30_Ant 0	10M	BPSK	25	14	Right Tilted	0mm	2/3	462000	2310	24.19	25.20	1.262	0.03	0.113	0.143
	FR1 n30_Ant 0	10M	BPSK	1	1	Left Cheek	0mm	2/3	462000	2310	24.33	25.20	1.222	-0.08	0.274	0.335
	FR1 n30_Ant 0	10M	BPSK	25	14	Left Cheek	0mm	2/3	462000	2310	24.19	25.20	1.262	-0.05	0.268	0.338
	FR1 n30_Ant 0	10M	BPSK	1	1	Left Tilted	0mm	2/3	462000	2310	24.33	25.20	1.222	-0.08	0.109	0.133
	FR1 n30_Ant 0	10M	BPSK	25	14	Left Tilted	0mm	2/3	462000	2310	24.19	25.20	1.262	0.1	0.099	0.125



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)
24	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	2	518598	2592.99	24.23	25.50	1.340	0.08	0.617	0.827
	FR1 n41_Ant 2	100M	BPSK	135	69	Right Cheek	0mm	2	518598	2592.99	23.95	25.50	1.429	-0.04	0.664	0.949
	FR1 n41_Ant 2	100M	BPSK	270	0	Right Cheek	0mm	2	518598	2592.99	23.91	25.20	1.346	0.01	0.609	0.820
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Tilted	0mm	2	518598	2592.99	24.23	25.50	1.340	0.06	0.211	0.283
	FR1 n41_Ant 2	100M	BPSK	135	69	Right Tilted	0mm	2	518598	2592.99	23.95	25.50	1.429	-0.08	0.190	0.271
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	24.23	25.50	1.340	-0.08	0.299	0.401
	FR1 n41_Ant 2	100M	BPSK	135	69	Left Cheek	0mm	2	518598	2592.99	23.95	25.50	1.429	-0.18	0.353	0.504
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Tilted	0mm	2	518598	2592.99	24.23	25.50	1.340	0.1	0.207	0.277
	FR1 n41_Ant 2	100M	BPSK	135	69	Left Tilted	0mm	2	518598	2592.99	23.95	25.50	1.429	-0.18	0.230	0.329
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	2	518598	2592.99	26.73	27.50	1.194	0.1	0.588	0.702
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	3	518598	2592.99	22.18	23.50	1.355	-0.13	0.376	0.510
	FR1 n41_Ant 2	100M	BPSK	135	69	Right Cheek	0mm	3	518598	2592.99	21.85	23.50	1.462	-0.01	0.401	0.586
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Tilted	0mm	3	518598	2592.99	22.18	23.50	1.355	-0.09	0.127	0.172
	FR1 n41_Ant 2	100M	BPSK	135	69	Right Tilted	0mm	3	518598	2592.99	21.85	23.50	1.462	0.05	0.110	0.161
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	22.18	23.50	1.355	0.02	0.177	0.240
	FR1 n41_Ant 2	100M	BPSK	135	69	Left Cheek	0mm	3	518598	2592.99	21.85	23.50	1.462	-0.13	0.216	0.316
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Tilted	0mm	3	518598	2592.99	22.18	23.50	1.355	0.17	0.121	0.164
	FR1 n41_Ant 2	100M	BPSK	135	69	Left Tilted	0mm	3	518598	2592.99	21.85	23.50	1.462	0.06	0.132	0.193
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	3	518598	2592.99	25.22	26.50	1.343	0	0.415	0.557
	FR1 n41_Ant 0	100M	BPSK	1	1	Right Cheek	0mm	2/3	518598	2592.99	24.80	25.20	1.096	0.05	0.199	0.218
	FR1 n41_Ant 0	100M	BPSK	135	69	Right Cheek	0mm	2/3	518598	2592.99	24.44	25.20	1.191	0.12	0.170	0.203
	FR1 n41_Ant 0	100M	BPSK	1	1	Right Tilted	0mm	2/3	518598	2592.99	24.80	25.20	1.096	0.08	0.160	0.175
	FR1 n41_Ant 0	100M	BPSK	135	69	Right Tilted	0mm	2/3	518598	2592.99	24.44	25.20	1.191	-0.17	0.133	0.158
	FR1 n41_Ant 0	100M	BPSK	1	1	Left Cheek	0mm	2/3	518598	2592.99	24.80	25.20	1.096	-0.18	0.491	0.538
	FR1 n41_Ant 0	100M	BPSK	135	69	Left Cheek	0mm	2/3	518598	2592.99	24.44	25.20	1.191	-0.03	0.447	0.532
	FR1 n41_Ant 0	100M	BPSK	1	1	Left Tilted	0mm	2/3	518598	2592.99	24.80	25.20	1.096	0.14	0.200	0.219
	FR1 n41_Ant 0	100M	BPSK	135	69	Left Tilted	0mm	2/3	518598	2592.99	24.44	25.20	1.191	0.11	0.161	0.192
	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Left Cheek	0mm	2/3	518598	2592.99	26.62	27.00	1.091	-0.05	0.390	0.426
	FR1 n41_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	518598	2592.99	14.93	15.9	1.250	0.14	0.647	0.809
	FR1 n41_Ant 1	100M	BPSK	135	69	Right Cheek	0mm	2	518598	2592.99	14.2	15.9	1.479	0.11	0.544	0.805
	FR1 n41_Ant 1	100M	BPSK	270	0	Right Cheek	0mm	2	518598	2592.99	14.31	15.9	1.442	0.11	0.540	0.779
	FR1 n41_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	518598	2592.99	14.93	15.9	1.250	-0.18	0.534	0.668
	FR1 n41_Ant 1	100M	BPSK	135	69	Right Tilted	0mm	2	518598	2592.99	14.2	15.9	1.479	-0.05	0.351	0.519
	FR1 n41_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	14.93	15.9	1.250	-0.14	0.203	0.254
	FR1 n41_Ant 1	100M	BPSK	135	69	Left Cheek	0mm	2	518598	2592.99	14.2	15.9	1.479	0.18	0.171	0.253
	FR1 n41_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	2	518598	2592.99	14.93	15.9	1.250	0.14	0.217	0.271
	FR1 n41_Ant 1	100M	BPSK	135	69	Left Tilted	0mm	2	518598	2592.99	14.2	15.9	1.479	-0.17	0.154	0.228
	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	518598	2592.99	17.94	18.9	1.247	-0.14	0.625	0.780
	FR1 n41_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	518598	2592.99	13.81	14.6	1.199	-0.04	0.492	0.590
	FR1 n41_Ant 1	100M	BPSK	135	69	Right Cheek	0mm	3	518598	2592.99	13.15	14.6	1.396	-0.09	0.425	0.593
	FR1 n41_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	518598	2592.99	13.81	14.6	1.199	-0.17	0.412	0.494
	FR1 n41_Ant 1	100M	BPSK	135	69	Right Tilted	0mm	3	518598	2592.99	13.15	14.6	1.396	-0.1	0.274	0.383
	FR1 n41_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	13.81	14.6	1.199	0.18	0.150	0.180
	FR1 n41_Ant 1	100M	BPSK	135	69	Left Cheek	0mm	3	518598	2592.99	13.15	14.6	1.396	-0.17	0.128	0.179
	FR1 n41_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	3	518598	2592.99	13.81	14.6	1.199	-0.04	0.164	0.197
	FR1 n41_Ant 1	100M	BPSK	135	69	Left Tilted	0mm	3	518598	2592.99	13.15	14.6	1.396	-0.05	0.118	0.165
	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	518598	2592.99	16.74	17.6	1.219	0	0.467	0.569
	FR1 n41_Ant 5	100M	BPSK	1	137	Right Cheek	0mm	2	518598	2592.99	15.56	16.60	1.271	0.17	0.205	0.260
	FR1 n41_Ant 5	100M	BPSK	135	69	Right Cheek	0mm	2	518598	2592.99	14.70	16.60	1.549	-0.15	0.172	0.266
	FR1 n41_Ant 5	100M	BPSK	1	137	Right Tilted	0mm	2	518598	2592.99	15.56	16.60	1.271	-0.05	0.090	0.114
	FR1 n41_Ant 5	100M	BPSK	135	69	Right Tilted	0mm	2	518598	2592.99	14.70	16.60	1.549	0.01	0.073	0.113



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	FR1 n41_Ant 5	100M	BPSK	1	137	Left Cheek	0mm	2	518598	2592.99	15.56	16.60	1.271	0.1	0.660	0.839
	FR1 n41_Ant 5	100M	BPSK	135	69	Left Cheek	0mm	2	518598	2592.99	14.70	16.60	1.549	-0.15	0.606	0.939
	FR1 n41_Ant 5	100M	BPSK	270	0	Left Cheek	0mm	2	518598	2592.99	14.72	16.60	1.542	-0.17	0.604	0.931
	FR1 n41_Ant 5	100M	BPSK	1	137	Left Tilted	0mm	2	518598	2592.99	15.56	16.60	1.271	0.04	0.252	0.320
	FR1 n41_Ant 5	100M	BPSK	135	69	Left Tilted	0mm	2	518598	2592.99	14.70	16.60	1.549	-0.01	0.234	0.362
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	18.20	19.60	1.380	-0.08	0.640	0.883
	FR1 n41_Ant 5	100M	BPSK	1	137	Right Cheek	0mm	3	518598	2592.99	15.56	15.60	1.009	0.17	0.205	0.207
	FR1 n41_Ant 5	100M	BPSK	135	69	Right Cheek	0mm	3	518598	2592.99	14.70	15.60	1.230	-0.15	0.172	0.212
	FR1 n41_Ant 5	100M	BPSK	1	137	Right Tilted	0mm	3	518598	2592.99	15.56	15.60	1.009	-0.05	0.090	0.091
	FR1 n41_Ant 5	100M	BPSK	135	69	Right Tilted	0mm	3	518598	2592.99	14.70	15.60	1.230	0.01	0.073	0.090
	FR1 n41_Ant 5	100M	BPSK	1	137	Left Cheek	0mm	3	518598	2592.99	15.56	15.60	1.009	0.1	0.660	0.666
	FR1 n41_Ant 5	100M	BPSK	135	69	Left Cheek	0mm	3	518598	2592.99	14.70	15.60	1.230	-0.15	0.606	0.746
	FR1 n41_Ant 5	100M	BPSK	1	137	Left Tilted	0mm	3	518598	2592.99	15.56	15.60	1.009	0.04	0.252	0.254
	FR1 n41_Ant 5	100M	BPSK	135	69	Left Tilted	0mm	3	518598	2592.99	14.70	15.60	1.230	-0.01	0.234	0.288
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	18.20	18.60	1.096	-0.08	0.640	0.702

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	0	Right Cheek	0mm	2/3	641666	3624.99	20.03	21.00	1.250	0.08	0.109	0.136
	FR1 n48_Ant 6	20M	BPSK	1	1	Right Cheek	0mm	2/3	641666	3624.99	24.07	24.60	1.130	0.01	0.236	0.267
	FR1 n48_Ant 6	40M	BPSK	50	25	Right Cheek	0mm	2/3	641666	3624.99	23.94	24.60	1.164	-0.12	0.257	0.299
	FR1 n48_Ant 6	40M	BPSK	1	0	Right Tilted	0mm	2/3	641666	3624.99	20.03	21.00	1.250	-0.08	0.087	0.109
	FR1 n48_Ant 6	20M	BPSK	1	1	Right Tilted	0mm	2/3	641666	3624.99	24.07	24.60	1.130	-0.08	0.202	0.228
	FR1 n48_Ant 6	40M	BPSK	50	25	Right Tilted	0mm	2/3	641666	3624.99	23.94	24.60	1.164	0.1	0.202	0.235
	FR1 n48_Ant 6	40M	BPSK	1	0	Left Cheek	0mm	2/3	641666	3624.99	20.03	21.00	1.250	-0.18	0.166	0.208
	FR1 n48_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	2/3	641666	3624.99	24.07	24.60	1.130	0.1	0.410	0.463
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Cheek	0mm	2/3	641666	3624.99	23.94	24.60	1.164	-0.12	0.412	0.480
	FR1 n48_Ant 6	40M	BPSK	1	0	Left Tilted	0mm	2/3	641666	3624.99	20.03	21.00	1.250	0.12	0.063	0.079
	FR1 n48_Ant 6	20M	BPSK	1	1	Left Tilted	0mm	2/3	641666	3624.99	24.07	24.60	1.130	0.08	0.152	0.172
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Tilted	0mm	2/3	641666	3624.99	23.94	24.60	1.164	-0.17	0.150	0.175
	FR1 n48_Ant 2	40M	BPSK	1	0	Right Cheek	0mm	2	641666	3624.99	19.80	20.50	1.175	-0.03	0.305	0.358
	FR1 n48_Ant 2	20M	BPSK	1	1	Right Cheek	0mm	2	641666	3624.99	23.78	24.50	1.180	0.14	0.639	0.754
	FR1 n48_Ant 2	20M	BPSK	1	49	Right Cheek	0mm	2	637334	3560.01	23.48	24.00	1.127	0.11	0.610	0.688
	FR1 n48_Ant 2	20M	BPSK	1	1	Right Cheek	0mm	2	646000	3690	23.30	24.00	1.175	-0.05	0.614	0.721
	FR1 n48_Ant 2	10M	BPSK	1	1	Right Cheek	0mm	2	637000	3555	23.62	24.50	1.225	0.18	0.620	0.759
	FR1 n48_Ant 2	10M	BPSK	1	1	Right Cheek	0mm	2	646332	3694.98	23.50	24.50	1.259	0.14	0.578	0.728
	FR1 n48_Ant 2	40M	BPSK	50	25	Right Cheek	0mm	2	641666	3624.99	23.56	24.50	1.242	-0.15	0.663	0.823
	FR1 n48_Ant 2	40M	BPSK	50	25	Right Cheek	0mm	2	638000	3570	13.09	14.00	1.233	-0.17	0.070	0.086
	FR1 n48_Ant 2	40M	BPSK	50	25	Right Cheek	0mm	2	645332	3679.98	12.80	13.50	1.175	0.17	0.065	0.076
	FR1 n48_Ant 2	20M	BPSK	25	12	Right Cheek	0mm	2	637334	3560.01	23.60	24.50	1.230	-0.05	0.607	0.747
	FR1 n48_Ant 2	20M	BPSK	25	12	Right Cheek	0mm	2	646000	3690	23.43	24.00	1.140	0.01	0.548	0.625
	FR1 n48_Ant 2	40M	BPSK	100	0	Right Cheek	0mm	2	641666	3624.99	19.09	20.00	1.233	0.1	0.263	0.324
	FR1 n48_Ant 2	20M	BPSK	50	0	Right Cheek	0mm	2	641666	3624.99	23.07	24.00	1.239	-0.17	0.554	0.686
	FR1 n48_Ant 2	40M	BPSK	1	0	Right Tilted	0mm	2	641666	3624.99	19.80	20.50	1.175	0.04	0.118	0.139
	FR1 n48_Ant 2	20M	BPSK	1	1	Right Tilted	0mm	2	641666	3624.99	23.78	24.50	1.180	-0.01	0.248	0.293
	FR1 n48_Ant 2	40M	BPSK	50	25	Right Tilted	0mm	2	641666	3624.99	23.56	24.50	1.242	-0.08	0.230	0.286
	FR1 n48_Ant 2	40M	BPSK	1	0	Left Cheek	0mm	2	641666	3624.99	19.80	20.50	1.175	0.05	0.169	0.199
	FR1 n48_Ant 2	20M	BPSK	1	1	Left Cheek	0mm	2	641666	3624.99	23.78	24.50	1.180	0.06	0.368	0.434



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	FR1 n48_Ant 2	40M	BPSK	50	25	Left Cheek	0mm	2	641666	3624.99	23.56	24.50	1.242	-0.1	0.376	0.467
	FR1 n48_Ant 2	40M	BPSK	1	0	Left Tilted	0mm	2	641666	3624.99	19.80	20.50	1.175	0.13	0.147	0.173
	FR1 n48_Ant 2	20M	BPSK	1	1	Left Tilted	0mm	2	641666	3624.99	23.78	24.50	1.180	-0.08	0.323	0.381
	FR1 n48_Ant 2	40M	BPSK	50	25	Left Tilted	0mm	2	641666	3624.99	23.56	24.50	1.242	0.12	0.317	0.394
	FR1 n48_Ant 2	40M	BPSK	1	0	Right Cheek	0mm	3	641666	3624.99	19.80	20.50	1.175	-0.03	0.305	0.358
	FR1 n48_Ant 2	20M	BPSK	1	1	Right Cheek	0mm	3	641666	3624.99	21.70	23.10	1.380	0.08	0.389	0.537
	FR1 n48_Ant 2	40M	BPSK	50	25	Right Cheek	0mm	3	641666	3624.99	21.70	23.10	1.380	-0.17	0.424	0.585
	FR1 n48_Ant 2	40M	BPSK	1	0	Right Tilted	0mm	3	641666	3624.99	19.80	20.50	1.175	0.04	0.118	0.139
	FR1 n48_Ant 2	20M	BPSK	1	1	Right Tilted	0mm	3	641666	3624.99	21.70	23.10	1.380	0.14	0.151	0.208
	FR1 n48_Ant 2	40M	BPSK	50	25	Right Tilted	0mm	3	641666	3624.99	21.70	23.10	1.380	0.11	0.147	0.203
	FR1 n48_Ant 2	40M	BPSK	1	0	Left Cheek	0mm	3	641666	3624.99	19.80	20.50	1.175	0.05	0.169	0.199
	FR1 n48_Ant 2	20M	BPSK	1	1	Left Cheek	0mm	3	641666	3624.99	21.70	23.10	1.380	0.18	0.224	0.309
	FR1 n48_Ant 2	40M	BPSK	50	25	Left Cheek	0mm	3	641666	3624.99	21.70	23.10	1.380	0.14	0.231	0.319
	FR1 n48_Ant 2	40M	BPSK	1	0	Left Tilted	0mm	3	641666	3624.99	19.80	20.50	1.175	0.13	0.147	0.173
	FR1 n48_Ant 2	20M	BPSK	1	1	Left Tilted	0mm	3	641666	3624.99	21.70	23.10	1.380	0.17	0.196	0.271
	FR1 n48_Ant 2	40M	BPSK	50	25	Left Tilted	0mm	3	641666	3624.99	21.70	23.10	1.380	-0.05	0.203	0.280
25	FR1 n48_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	2	641666	3624.99	15.10	16.20	1.288	-0.16	0.751	0.967
	FR1 n48_Ant 1	40M	BPSK	1	0	Right Cheek	0mm	2	638000	3570	13.40	14.00	1.148	0.01	0.468	0.537
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	2	645332	3679.98	13.15	14.00	1.216	0.03	0.434	0.528
	FR1 n48_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	2	637334	3560.01	15.00	16.20	1.318	-0.08	0.584	0.770
	FR1 n48_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	2	646000	3690	15.10	16.20	1.288	-0.08	0.610	0.786
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	2	641666	3624.99	15.13	16.20	1.279	0.1	0.685	0.876
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	2	638000	3570	13.20	14.00	1.202	-0.18	0.470	0.565
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	2	645332	3679.98	12.99	13.50	1.125	0.1	0.501	0.563
	FR1 n48_Ant 1	20M	BPSK	25	12	Right Cheek	0mm	2	637334	3560.01	14.95	16.20	1.334	0.12	0.722	0.963
	FR1 n48_Ant 1	20M	BPSK	25	12	Right Cheek	0mm	2	646000	3690	15.03	16.20	1.309	0.08	0.718	0.940
	FR1 n48_Ant 1	40M	BPSK	100	0	Right Cheek	0mm	2	641666	3624.99	15.12	16.20	1.282	-0.17	0.587	0.753
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	2	641666	3624.99	15.10	16.20	1.288	-0.03	0.599	0.772
	FR1 n48_Ant 1	40M	BPSK	1	0	Right Tilted	0mm	2	638000	3570	13.40	14.00	1.148	0.14	0.286	0.328
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	2	645332	3679.98	13.15	14.00	1.216	0.11	0.348	0.423
	FR1 n48_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	2	637334	3560.01	15.00	16.20	1.318	-0.05	0.446	0.588
	FR1 n48_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	2	646000	3690	15.10	16.20	1.288	0.18	0.634	0.817
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	2	641666	3624.99	15.13	16.20	1.279	0.14	0.563	0.720
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	2	638000	3570	13.20	14.00	1.202	-0.17	0.283	0.340
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	2	645332	3679.98	12.99	13.50	1.125	0.17	0.385	0.433
	FR1 n48_Ant 1	20M	BPSK	25	12	Right Tilted	0mm	2	637334	3560.01	14.95	16.20	1.334	-0.05	0.446	0.595
	FR1 n48_Ant 1	20M	BPSK	25	12	Right Tilted	0mm	2	646000	3690	15.03	16.20	1.309	-0.18	0.628	0.822
	FR1 n48_Ant 1	40M	BPSK	100	0	Right Tilted	0mm	2	641666	3624.99	15.12	16.20	1.282	0.1	0.489	0.627
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	2	641666	3624.99	15.10	16.20	1.288	0.17	0.338	0.435
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Cheek	0mm	2	641666	3624.99	15.13	16.20	1.279	0.04	0.319	0.408
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	2	641666	3624.99	15.10	16.20	1.288	-0.01	0.397	0.511
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Tilted	0mm	2	641666	3624.99	15.13	16.20	1.279	0.17	0.413	0.528
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	3	641666	3624.99	13.09	14.10	1.262	0.08	0.464	0.585
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	3	641666	3624.99	13.10	14.10	1.259	0.01	0.421	0.530
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	3	641666	3624.99	13.09	14.10	1.262	0.03	0.370	0.467
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	3	641666	3624.99	13.10	14.10	1.259	-0.08	0.346	0.436
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	3	641666	3624.99	13.09	14.10	1.262	-0.08	0.209	0.264
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Cheek	0mm	3	641666	3624.99	13.10	14.10	1.259	0.1	0.196	0.247
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	3	641666	3624.99	13.09	14.10	1.262	-0.18	0.245	0.309



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	FR1 n48_Ant 1	40M	BPSK	50	25	Left Tilted	0mm	3	641666	3624.99	13.10	14.10	1.259	0.1	0.254	0.320
	FR1 n48_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	2	641666	3624.99	14.37	15.90	1.422	-0.09	0.174	0.247
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Cheek	0mm	2	641666	3624.99	14.49	15.90	1.384	0.06	0.139	0.192
	FR1 n48_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	2	641666	3624.99	14.37	15.90	1.422	-0.09	0.094	0.134
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Tilted	0mm	2	641666	3624.99	14.49	15.90	1.384	-0.08	0.082	0.113
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	2	641666	3624.99	14.37	15.90	1.422	0.08	0.589	0.838
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	2	638000	3570	13.79	14.50	1.178	0.12	0.440	0.518
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	2	645332	3679.98	13.50	14.50	1.259	0.03	0.512	0.645
	FR1 n48_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	2	637334	3560.01	14.65	15.90	1.334	0.18	0.540	0.720
	FR1 n48_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	2	646000	3690	14.59	15.90	1.352	0.16	0.578	0.781
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	2	641666	3624.99	14.49	15.90	1.384	-0.1	0.577	0.798
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	2	638000	3570	13.58	14.50	1.236	0.07	0.411	0.508
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	2	645332	3679.98	13.25	14.00	1.189	0.18	0.494	0.587
	FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	2	637334	3560.01	14.60	15.90	1.349	-0.1	0.498	0.672
	FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	2	646000	3690	14.30	15.90	1.445	0.01	0.550	0.795
	FR1 n48_Ant 5	40M	BPSK	100	0	Left Cheek	0mm	2	641666	3624.99	14.49	15.90	1.384	-0.15	0.506	0.700
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	2	641666	3624.99	14.37	15.90	1.422	0.19	0.279	0.397
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Tilted	0mm	2	641666	3624.99	14.49	15.90	1.384	0.07	0.265	0.367
	FR1 n48_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	3	641666	3624.99	14.57	15.20	1.156	-0.09	0.174	0.201
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Cheek	0mm	3	641666	3624.99	14.49	15.20	1.178	0.06	0.139	0.164
	FR1 n48_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	3	641666	3624.99	14.57	15.20	1.156	-0.09	0.094	0.109
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Tilted	0mm	3	641666	3624.99	14.49	15.20	1.178	-0.08	0.082	0.097
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	3	641666	3624.99	14.57	15.20	1.156	0.08	0.589	0.681
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	3	638000	3570	13.79	14.50	1.178	0.12	0.440	0.518
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	3	645332	3679.98	13.50	14.50	1.259	0.03	0.512	0.645
	FR1 n48_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	3	637334	3560.01	14.65	15.20	1.135	0.18	0.540	0.613
	FR1 n48_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	3	646000	3690	14.59	15.20	1.151	0.16	0.578	0.665
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	3	641666	3624.99	14.49	15.20	1.178	-0.1	0.577	0.679
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	3	638000	3570	13.58	14.50	1.236	0.07	0.411	0.508
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	3	645332	3679.98	13.25	14.00	1.189	0.18	0.494	0.587
	FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	3	637334	3560.01	14.60	15.20	1.148	-0.1	0.498	0.572
	FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	3	646000	3690	14.30	15.20	1.230	0.01	0.550	0.677
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	3	641666	3624.99	14.57	15.20	1.156	0.19	0.279	0.323
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Tilted	0mm	3	641666	3624.99	14.49	15.20	1.178	0.07	0.265	0.312

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	BPSK	1	1	Right Cheek	0mm	2/3	349000	1745	24.69	25.70	1.262	0.08	0.440	0.555
26	FR1 n66_Ant 2	40M	BPSK	108	54	Right Cheek	0mm	2/3	349000	1745	24.66	25.70	1.271	-0.05	0.472	0.600
	FR1 n66_Ant 2	40M	BPSK	1	1	Right Tilted	0mm	2/3	349000	1745	24.69	25.70	1.262	0.01	0.185	0.233
	FR1 n66_Ant 2	40M	BPSK	108	54	Right Tilted	0mm	2/3	349000	1745	24.66	25.70	1.271	0.03	0.182	0.231
	FR1 n66_Ant 2	40M	BPSK	1	1	Left Cheek	0mm	2/3	349000	1745	24.69	25.70	1.262	-0.08	0.195	0.246
	FR1 n66_Ant 2	40M	BPSK	108	54	Left Cheek	0mm	2/3	349000	1745	24.66	25.70	1.271	-0.05	0.249	0.316
	FR1 n66_Ant 2	40M	BPSK	1	1	Left Tilted	0mm	2/3	349000	1745	24.69	25.70	1.262	-0.08	0.226	0.285
	FR1 n66_Ant 2	40M	BPSK	108	54	Left Tilted	0mm	2/3	349000	1745	24.66	25.70	1.271	0.1	0.248	0.315
	FR1 n66_Ant 0	40M	BPSK	1	1	Right Cheek	0mm	2/3	349000	1745	24.35	25.20	1.216	-0.18	0.194	0.236
	FR1 n66_Ant 0	40M	BPSK	108	54	Right Cheek	0mm	2/3	349000	1745	24.29	25.20	1.233	-0.07	0.203	0.250
	FR1 n66_Ant 0	40M	BPSK	1	1	Right Tilted	0mm	2/3	349000	1745	24.35	25.20	1.216	0.1	0.164	0.199
	FR1 n66_Ant 0	40M	BPSK	108	54	Right Tilted	0mm	2/3	349000	1745	24.29	25.20	1.233	0.12	0.178	0.219
	FR1 n66_Ant 0	40M	BPSK	1	1	Left Cheek	0mm	2/3	349000	1745	24.35	25.20	1.216	0.08	0.439	0.534
	FR1 n66_Ant 0	40M	BPSK	108	54	Left Cheek	0mm	2/3	349000	1745	24.29	25.20	1.233	-0.11	0.444	0.547
	FR1 n66_Ant 0	40M	BPSK	1	1	Left Tilted	0mm	2/3	349000	1745	24.35	25.20	1.216	-0.17	0.180	0.219



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	FR1 n66_Ant 0	40M	BPSK	108	54	Left Tilted	0mm	2/3	349000	1745	24.29	25.20	1.233	-0.03	0.176	0.217
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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 n70_Ant 2	15M	BPSK	1	1	Right Cheek	0mm	2	340500	1702.5	24.74	25.70	1.247	0.14	0.476	0.594
	FR1 n70_Ant 2	15M	BPSK	36	22	Right Cheek	0mm	2	340500	1702.5	24.72	25.70	1.253	0.12	0.480	0.602
	FR1 n70_Ant 2	15M	BPSK	1	1	Right Tilted	0mm	2	340500	1702.5	24.74	25.70	1.247	0.11	0.174	0.217
	FR1 n70_Ant 2	15M	BPSK	36	22	Right Tilted	0mm	2	340500	1702.5	24.72	25.70	1.253	-0.05	0.172	0.216
	FR1 n70_Ant 2	15M	BPSK	1	1	Left Cheek	0mm	2	340500	1702.5	24.74	25.70	1.247	0.18	0.216	0.269
	FR1 n70_Ant 2	15M	BPSK	36	22	Left Cheek	0mm	2	340500	1702.5	24.72	25.70	1.253	-0.15	0.219	0.274
	FR1 n70_Ant 2	15M	BPSK	1	1	Left Tilted	0mm	2	340500	1702.5	24.74	25.70	1.247	0.14	0.157	0.196
	FR1 n70_Ant 2	15M	BPSK	36	22	Left Tilted	0mm	2	340500	1702.5	24.72	25.70	1.253	-0.17	0.147	0.184
	FR1 n70_Ant 2	15M	BPSK	1	1	Right Cheek	0mm	3	340500	1702.5	24.74	25.60	1.219	0.14	0.476	0.580
	FR1 n70_Ant 2	15M	BPSK	36	22	Right Cheek	0mm	3	340500	1702.5	24.72	25.60	1.225	0.12	0.480	0.588
	FR1 n70_Ant 2	15M	BPSK	1	1	Right Tilted	0mm	3	340500	1702.5	24.74	25.60	1.219	0.11	0.174	0.212
	FR1 n70_Ant 2	15M	BPSK	36	22	Right Tilted	0mm	3	340500	1702.5	24.72	25.60	1.225	-0.05	0.172	0.211
	FR1 n70_Ant 2	15M	BPSK	1	1	Left Cheek	0mm	3	340500	1702.5	24.74	25.60	1.219	0.18	0.216	0.263
	FR1 n70_Ant 2	15M	BPSK	36	22	Left Cheek	0mm	3	340500	1702.5	24.72	25.60	1.225	-0.15	0.219	0.268
	FR1 n70_Ant 2	15M	BPSK	1	1	Left Tilted	0mm	3	340500	1702.5	24.74	25.60	1.219	0.14	0.157	0.191
	FR1 n70_Ant 2	15M	BPSK	36	22	Left Tilted	0mm	3	340500	1702.5	24.72	25.60	1.225	-0.17	0.147	0.180
	FR1 n70_Ant 0	15M	BPSK	1	1	Right Cheek	0mm	2/3	340500	1702.5	24.16	25.20	1.271	0.17	0.093	0.118
	FR1 n70_Ant 0	15M	BPSK	36	22	Right Cheek	0mm	2/3	340500	1702.5	24.12	25.20	1.282	0.17	0.100	0.128
	FR1 n70_Ant 0	15M	BPSK	1	1	Right Tilted	0mm	2/3	340500	1702.5	24.16	25.20	1.271	-0.05	0.085	0.108
	FR1 n70_Ant 0	15M	BPSK	36	22	Right Tilted	0mm	2/3	340500	1702.5	24.12	25.20	1.282	0.01	0.087	0.112
	FR1 n70_Ant 0	15M	BPSK	1	1	Left Cheek	0mm	2/3	340500	1702.5	24.16	25.20	1.271	0.1	0.197	0.250
	FR1 n70_Ant 0	15M	BPSK	36	22	Left Cheek	0mm	2/3	340500	1702.5	24.12	25.20	1.282	-0.03	0.220	0.282
	FR1 n70_Ant 0	15M	BPSK	1	1	Left Tilted	0mm	2/3	340500	1702.5	24.16	25.20	1.271	-0.17	0.084	0.107
	FR1 n70_Ant 0	15M	BPSK	36	22	Left Tilted	0mm	2/3	340500	1702.5	24.12	25.20	1.282	0.04	0.076	0.097
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Cheek	0mm	2/3	136100	680.5	24.78	25.70	1.236	-0.04	0.169	0.209
	FR1 n71_Ant 0	20M	BPSK	50	28	Right Cheek	0mm	2/3	136100	680.5	24.73	25.70	1.250	0.01	0.146	0.183
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Tilted	0mm	2/3	136100	680.5	24.78	25.70	1.236	0.03	0.093	0.115
	FR1 n71_Ant 0	20M	BPSK	50	28	Right Tilted	0mm	2/3	136100	680.5	24.73	25.70	1.250	-0.08	0.083	0.104
	FR1 n71_Ant 0	20M	BPSK	1	1	Left Cheek	0mm	2/3	136100	680.5	24.78	25.70	1.236	0.02	0.193	0.239
	FR1 n71_Ant 0	20M	BPSK	50	28	Left Cheek	0mm	2/3	136100	680.5	24.73	25.70	1.250	-0.08	0.151	0.189
	FR1 n71_Ant 0	20M	BPSK	1	1	Left Tilted	0mm	2/3	136100	680.5	24.78	25.70	1.236	0.1	0.130	0.161
	FR1 n71_Ant 0	20M	BPSK	50	28	Left Tilted	0mm	2/3	136100	680.5	24.73	25.70	1.250	-0.18	0.118	0.148
28	FR1 n71_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	2	136100	680.5	21.67	23.30	1.455	0.01	0.595	0.866
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	2	136100	680.5	21.60	23.30	1.479	0.19	0.571	0.845
	FR1 n71_Ant 1	20M	BPSK	100	0	Right Cheek	0mm	2	136100	680.5	21.51	23.30	1.510	0.02	0.563	0.850
	FR1 n71_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	2	136100	680.5	21.67	23.30	1.455	-0.1	0.642	0.934
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	2	136100	680.5	21.60	23.30	1.479	-0.16	0.610	0.902
	FR1 n71_Ant 1	20M	BPSK	100	0	Right Tilted	0mm	2	136100	680.5	21.51	23.30	1.510	-0.13	0.595	0.898
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	2	136100	680.5	21.67	23.30	1.455	-0.12	0.429	0.624
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	2	136100	680.5	21.60	23.30	1.479	-0.05	0.420	0.621
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	2	136100	680.5	21.67	23.30	1.455	-0.02	0.321	0.467
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	2	136100	680.5	21.60	23.30	1.479	0.02	0.316	0.467
	FR1 n71_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	3	136100	680.5	21.67	21.70	1.007	0.01	0.595	0.599
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	3	136100	680.5	21.60	21.70	1.023	0.19	0.571	0.584
	FR1 n71_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	3	136100	680.5	21.67	21.70	1.007	-0.1	0.642	0.646
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	3	136100	680.5	21.60	21.70	1.023	-0.16	0.610	0.624
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	3	136100	680.5	21.67	21.70	1.007	-0.12	0.429	0.432
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	3	136100	680.5	21.60	21.70	1.023	-0.05	0.420	0.430
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	3	136100	680.5	21.67	21.70	1.007	-0.02	0.321	0.323
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	3	136100	680.5	21.60	21.70	1.023	0.02	0.316	0.323



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	BPSK	1	1	Right Cheek	0mm	2	656000	3840	24.24	25.70	1.400	-0.05	0.259	0.362
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Cheek	0mm	2	656000	3840	24.58	25.70	1.294	-0.03	0.316	0.409
	FR1 n77_Ant 6	100M	BPSK	1	1	Right Tilted	0mm	2	656000	3840	24.24	25.70	1.400	-0.08	0.283	0.396
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Tilted	0mm	2	656000	3840	24.58	25.70	1.294	0.16	0.342	0.443
	FR1 n77_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	2	656000	3840	24.24	25.70	1.400	0.05	0.456	0.638
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Cheek	0mm	2	656000	3840	24.58	25.70	1.294	0.09	0.593	0.767
	FR1 n77_Ant 6	100M	BPSK	1	1	Left Tilted	0mm	2	656000	3840	24.24	25.70	1.400	0.05	0.199	0.279
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Tilted	0mm	2	656000	3840	24.58	25.70	1.294	-0.03	0.240	0.311
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	2	656000	3840	25.44	27.30	1.535	-0.15	0.387	0.594
	FR1 n77_Ant 6	100M	BPSK	1	1	Right Cheek	0mm	3	656000	3840	23.29	24.30	1.262	-0.15	0.203	0.256
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Cheek	0mm	3	656000	3840	23.16	24.30	1.300	0.11	0.224	0.291
	FR1 n77_Ant 6	100M	BPSK	1	1	Right Tilted	0mm	3	656000	3840	23.29	24.30	1.262	-0.02	0.227	0.286
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Tilted	0mm	3	656000	3840	23.16	24.30	1.300	0.1	0.238	0.309
	FR1 n77_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	3	656000	3840	23.29	24.30	1.262	0.04	0.358	0.452
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Cheek	0mm	3	656000	3840	23.16	24.30	1.300	0.13	0.460	0.598
	FR1 n77_Ant 6	100M	BPSK	1	1	Left Tilted	0mm	3	656000	3840	23.29	24.30	1.262	-0.18	0.158	0.199
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Tilted	0mm	3	656000	3840	23.16	24.30	1.300	-0.11	0.167	0.217
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	3	656000	3840	25.44	27.30	1.535	-0.15	0.387	0.594
	FR1 n77_Ant 6	100M	BPSK	1	1	Right Cheek	0mm	2	633332	3499.98	24.17	25.70	1.422	0.18	0.254	0.361
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Cheek	0mm	2	633332	3499.98	24.44	25.70	1.337	0.05	0.301	0.402
	FR1 n77_Ant 6	100M	BPSK	1	1	Right Tilted	0mm	2	633332	3499.98	24.17	25.70	1.422	0.14	0.187	0.266
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Tilted	0mm	2	633332	3499.98	24.44	25.70	1.337	-0.17	0.223	0.298
	FR1 n77_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	2	633332	3499.98	24.17	25.70	1.422	0.17	0.421	0.599
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Cheek	0mm	2	633332	3499.98	24.44	25.70	1.337	0.02	0.453	0.605
	FR1 n77_Ant 6	100M	BPSK	1	1	Left Tilted	0mm	2	633332	3499.98	24.17	25.70	1.422	-0.05	0.106	0.151
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Tilted	0mm	2	633332	3499.98	24.44	25.70	1.337	0.01	0.136	0.182
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	2	633332	3499.98	25.44	27.30	1.535	0.1	0.306	0.470
	FR1 n77_Ant 6	100M	BPSK	1	1	Right Cheek	0mm	3	633332	3499.98	23.74	24.30	1.138	0.01	0.224	0.255
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Cheek	0mm	3	633332	3499.98	23.31	24.30	1.256	0.03	0.229	0.288
	FR1 n77_Ant 6	100M	BPSK	1	1	Right Tilted	0mm	3	633332	3499.98	23.74	24.30	1.138	-0.08	0.159	0.181
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Tilted	0mm	3	633332	3499.98	23.31	24.30	1.256	-0.08	0.163	0.205
	FR1 n77_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	3	633332	3499.98	23.74	24.30	1.138	0.1	0.414	0.471
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Cheek	0mm	3	633332	3499.98	23.31	24.30	1.256	-0.18	0.342	0.430
	FR1 n77_Ant 6	100M	BPSK	1	1	Left Tilted	0mm	3	633332	3499.98	23.74	24.30	1.138	0.1	0.096	0.109
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Tilted	0mm	3	633332	3499.98	23.31	24.30	1.256	0.12	0.101	0.127
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	3	633332	3499.98	25.44	27.30	1.535	0.1	0.306	0.470
	FR1 n77_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	2	656000	3840	23.50	25.10	1.445	-0.04	0.630	0.911
	FR1 n77_Ant 2	100M	BPSK	135	69	Right Cheek	0mm	2	656000	3840	24.05	25.10	1.274	-0.17	0.487	0.620
	FR1 n77_Ant 2	100M	BPSK	270	0	Right Cheek	0mm	2	656000	3840	23.61	24.70	1.285	0.14	0.480	0.617
	FR1 n77_Ant 2	100M	BPSK	1	1	Right Tilted	0mm	2	656000	3840	23.50	25.10	1.445	0.04	0.177	0.256
	FR1 n77_Ant 2	100M	BPSK	135	69	Right Tilted	0mm	2	656000	3840	24.05	25.10	1.274	-0.01	0.191	0.243
	FR1 n77_Ant 2	100M	BPSK	1	1	Left Cheek	0mm	2	656000	3840	23.50	25.10	1.445	0.11	0.339	0.490
	FR1 n77_Ant 2	100M	BPSK	135	69	Left Cheek	0mm	2	656000	3840	24.05	25.10	1.274	-0.08	0.348	0.443
	FR1 n77_Ant 2	100M	BPSK	1	1	Left Tilted	0mm	2	656000	3840	23.50	25.10	1.445	0.05	0.259	0.374
	FR1 n77_Ant 2	100M	BPSK	135	69	Left Tilted	0mm	2	656000	3840	24.05	25.10	1.274	0.06	0.304	0.387
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	2	656000	3840	25.23	26.70	1.403	-0.09	0.393	0.551
	FR1 n77_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	3	656000	3840	21.73	23.00	1.340	-0.17	0.410	0.549
	FR1 n77_Ant 2	100M	BPSK	135	69	Right Cheek	0mm	3	656000	3840	22.10	23.00	1.230	0.04	0.305	0.375
	FR1 n77_Ant 2	100M	BPSK	1	1	Right Tilted	0mm	3	656000	3840	21.73	23.00	1.340	-0.01	0.114	0.153
	FR1 n77_Ant 2	100M	BPSK	135	69	Right Tilted	0mm	3	656000	3840	22.10	23.00	1.230	-0.08	0.117	0.144
	FR1 n77_Ant 2	100M	BPSK	1	1	Left Cheek	0mm	3	656000	3840	21.73	23.00	1.340	0.05	0.221	0.296



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	FR1 n77_Ant 2	100M	BPSK	135	69	Left Cheek	0mm	3	656000	3840	22.10	23.00	1.230	0.06	0.216	0.266
	FR1 n77_Ant 2	100M	BPSK	1	1	Left Tilted	0mm	3	656000	3840	21.73	23.00	1.340	-0.09	0.171	0.229
	FR1 n77_Ant 2	100M	BPSK	135	69	Left Tilted	0mm	3	656000	3840	22.10	23.00	1.230	-0.08	0.185	0.228
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	3	656000	3840	25.23	26.00	1.194	-0.09	0.393	0.469
29	FR1 n77_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	2	633332	3499.98	23.64	25.10	1.400	-0.18	0.702	0.983
	FR1 n77_Ant 2	100M	BPSK	135	69	Right Cheek	0mm	2	633332	3499.98	24.11	25.10	1.256	-0.08	0.475	0.597
	FR1 n77_Ant 2	100M	BPSK	270	0	Right Cheek	0mm	2	633332	3499.98	23.58	23.97	1.094	0.04	0.470	0.514
	FR1 n77_Ant 2	100M	BPSK	1	1	Right Tilted	0mm	2	633332	3499.98	23.64	25.10	1.400	0.13	0.186	0.260
	FR1 n77_Ant 2	100M	BPSK	135	69	Right Tilted	0mm	2	633332	3499.98	24.11	25.10	1.256	0.12	0.211	0.265
	FR1 n77_Ant 2	100M	BPSK	1	1	Left Cheek	0mm	2	633332	3499.98	23.64	25.10	1.400	0.03	0.333	0.466
	FR1 n77_Ant 2	100M	BPSK	135	69	Left Cheek	0mm	2	633332	3499.98	24.11	25.10	1.256	0.16	0.400	0.502
	FR1 n77_Ant 2	100M	BPSK	1	1	Left Tilted	0mm	2	633332	3499.98	23.64	25.10	1.400	0.18	0.258	0.361
	FR1 n77_Ant 2	100M	BPSK	135	69	Left Tilted	0mm	2	633332	3499.98	24.11	25.10	1.256	0.16	0.334	0.420
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	2	633332	3499.98	25.29	26.70	1.384	-0.1	0.465	0.643
	FR1 n77_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	3	633332	3499.98	21.85	23.00	1.303	0.03	0.454	0.592
	FR1 n77_Ant 2	100M	BPSK	135	69	Right Cheek	0mm	3	633332	3499.98	22.28	23.00	1.180	0.18	0.304	0.359
	FR1 n77_Ant 2	100M	BPSK	1	1	Right Tilted	0mm	3	633332	3499.98	21.85	23.00	1.303	-0.1	0.119	0.155
	FR1 n77_Ant 2	100M	BPSK	135	69	Right Tilted	0mm	3	633332	3499.98	22.28	23.00	1.180	0.07	0.131	0.155
	FR1 n77_Ant 2	100M	BPSK	1	1	Left Cheek	0mm	3	633332	3499.98	21.85	23.00	1.303	0.18	0.213	0.278
	FR1 n77_Ant 2	100M	BPSK	135	69	Left Cheek	0mm	3	633332	3499.98	22.28	23.00	1.180	-0.1	0.252	0.297
	FR1 n77_Ant 2	100M	BPSK	1	1	Left Tilted	0mm	3	633332	3499.98	21.85	23.00	1.303	0.01	0.164	0.214
	FR1 n77_Ant 2	100M	BPSK	135	69	Left Tilted	0mm	3	633332	3499.98	22.28	23.00	1.180	-0.15	0.216	0.255
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	3	633332	3499.98	25.29	26.00	1.178	-0.1	0.453	0.533
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	656000	3840	14.18	15.5	1.355	0.08	0.495	0.671
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Cheek	0mm	2	656000	3840	13.86	15.5	1.459	0.02	0.500	0.729
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	656000	3840	14.18	15.5	1.355	0.03	0.457	0.619
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Tilted	0mm	2	656000	3840	13.86	15.5	1.459	-0.08	0.312	0.455
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	2	656000	3840	14.18	15.5	1.355	0.06	0.211	0.286
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Cheek	0mm	2	656000	3840	13.86	15.5	1.459	0.1	0.164	0.239
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	2	656000	3840	14.18	15.5	1.355	-0.18	0.260	0.352
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Tilted	0mm	2	656000	3840	13.86	15.5	1.459	0.1	0.178	0.260
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	656000	3840	17.09	18.6	1.416	0.12	0.475	0.673
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	656000	3840	12.35	13.6	1.334	-0.08	0.323	0.431
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Cheek	0mm	3	656000	3840	12.76	13.6	1.213	0.16	0.388	0.471
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	656000	3840	12.35	13.6	1.334	0.05	0.296	0.395
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Tilted	0mm	3	656000	3840	12.76	13.6	1.213	0.05	0.237	0.288
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	3	656000	3840	12.35	13.6	1.334	-0.03	0.138	0.184
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Cheek	0mm	3	656000	3840	12.76	13.6	1.213	-0.15	0.124	0.150
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	3	656000	3840	12.35	13.6	1.334	0.02	0.165	0.220
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Tilted	0mm	3	656000	3840	12.76	13.6	1.213	0.07	0.137	0.166
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	656000	3840	16.07	16.7	1.156	0.16	0.347	0.401
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	633332	3499.98	14.08	15.5	1.387	-0.01	0.484	0.671
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Cheek	0mm	2	633332	3499.98	13.95	15.5	1.429	0.08	0.409	0.584
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	633332	3499.98	14.08	15.5	1.387	-0.17	0.397	0.551
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Tilted	0mm	2	633332	3499.98	13.95	15.5	1.429	-0.03	0.404	0.577
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	2	633332	3499.98	14.08	15.5	1.387	0.14	0.207	0.287
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Cheek	0mm	2	633332	3499.98	13.95	15.5	1.429	0.15	0.214	0.306
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	2	633332	3499.98	14.08	15.5	1.387	-0.05	0.162	0.225
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Tilted	0mm	2	633332	3499.98	13.95	15.5	1.429	0.18	0.192	0.274
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	633332	3499.98	17.03	18.6	1.435	0.14	0.453	0.650
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	633332	3499.98	13.11	13.6	1.119	0.13	0.379	0.424
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Cheek	0mm	3	633332	3499.98	13.06	13.6	1.132	-0.18	0.331	0.375
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	633332	3499.98	13.11	13.6	1.119	0.02	0.317	0.355
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Tilted	0mm	3	633332	3499.98	13.06	13.6	1.132	0.16	0.322	0.365
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	3	633332	3499.98	13.11	13.6	1.119	-0.03	0.165	0.185



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	FR1 n77_Ant 1	100M	BPSK	135	69	Left Cheek	0mm	3	633332	3499.98	13.06	13.6	1.132	0.07	0.164	0.186
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	3	633332	3499.98	13.11	13.6	1.119	0	0.126	0.141
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Tilted	0mm	3	633332	3499.98	13.06	13.6	1.132	0.01	0.155	0.176
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	633332	3499.98	16.1	16.7	1.148	-0.01	0.357	0.410
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	2	656000	3840	14.32	15.60	1.343	-0.02	0.130	0.175
	FR1 n77_Ant 5	100M	BPSK	135	69	Right Cheek	0mm	2	656000	3840	14.30	15.60	1.349	-0.15	0.097	0.131
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	2	656000	3840	14.32	15.60	1.343	-0.15	0.073	0.098
	FR1 n77_Ant 5	100M	BPSK	135	69	Right Tilted	0mm	2	656000	3840	14.30	15.60	1.349	0.11	0.063	0.085
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	656000	3840	14.32	15.60	1.343	-0.07	0.541	0.726
	FR1 n77_Ant 5	100M	BPSK	135	69	Left Cheek	0mm	2	656000	3840	14.30	15.60	1.349	-0.17	0.363	0.490
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	2	656000	3840	14.32	15.60	1.343	-0.04	0.193	0.259
	FR1 n77_Ant 5	100M	BPSK	135	69	Left Tilted	0mm	2	656000	3840	14.30	15.60	1.349	-0.08	0.170	0.229
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	656000	3840	17.31	18.60	1.346	0.17	0.523	0.704
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	3	656000	3840	14.32	14.90	1.143	-0.02	0.130	0.149
	FR1 n77_Ant 5	100M	BPSK	135	69	Right Cheek	0mm	3	656000	3840	14.30	14.90	1.148	-0.15	0.097	0.111
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	3	656000	3840	14.32	14.90	1.143	-0.15	0.073	0.083
	FR1 n77_Ant 5	100M	BPSK	135	69	Right Tilted	0mm	3	656000	3840	14.30	14.90	1.148	0.11	0.063	0.072
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	656000	3840	14.32	14.90	1.143	-0.07	0.541	0.618
	FR1 n77_Ant 5	100M	BPSK	135	69	Left Cheek	0mm	3	656000	3840	14.30	14.90	1.148	-0.17	0.363	0.417
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	3	656000	3840	14.32	14.90	1.143	-0.04	0.193	0.221
	FR1 n77_Ant 5	100M	BPSK	135	69	Left Tilted	0mm	3	656000	3840	14.30	14.90	1.148	-0.08	0.170	0.195
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	656000	3840	17.31	17.90	1.146	0.17	0.523	0.599
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	2	633332	3499.98	14.52	15.60	1.282	-0.08	0.131	0.168
	FR1 n77_Ant 5	100M	BPSK	135	69	Right Cheek	0mm	2	633332	3499.98	14.53	15.60	1.279	-0.13	0.120	0.154
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	2	633332	3499.98	14.52	15.60	1.282	-0.13	0.077	0.099
	FR1 n77_Ant 5	100M	BPSK	135	69	Right Tilted	0mm	2	633332	3499.98	14.53	15.60	1.279	0.06	0.074	0.095
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	633332	3499.98	14.52	15.60	1.282	-0.01	0.544	0.698
	FR1 n77_Ant 5	100M	BPSK	135	69	Left Cheek	0mm	2	633332	3499.98	14.53	15.60	1.279	-0.03	0.539	0.690
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	2	633332	3499.98	14.52	15.60	1.282	-0.07	0.215	0.276
	FR1 n77_Ant 5	100M	BPSK	135	69	Left Tilted	0mm	2	633332	3499.98	14.53	15.60	1.279	0.05	0.237	0.303
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	633332	3499.98	17.38	18.60	1.324	-0.11	0.509	0.674
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	3	633332	3499.98	14.52	14.90	1.091	-0.08	0.131	0.143
	FR1 n77_Ant 5	100M	BPSK	135	69	Right Cheek	0mm	3	633332	3499.98	14.53	14.90	1.089	-0.13	0.120	0.131
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	3	633332	3499.98	14.52	14.90	1.091	-0.13	0.077	0.084
	FR1 n77_Ant 5	100M	BPSK	135	69	Right Tilted	0mm	3	633332	3499.98	14.53	14.90	1.089	0.06	0.074	0.081
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	633332	3499.98	14.52	14.90	1.091	-0.01	0.544	0.594
	FR1 n77_Ant 5	100M	BPSK	135	69	Left Cheek	0mm	3	633332	3499.98	14.53	14.90	1.089	-0.03	0.539	0.587
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	3	633332	3499.98	14.52	14.90	1.091	-0.07	0.215	0.235
	FR1 n77_Ant 5	100M	BPSK	135	69	Left Tilted	0mm	3	633332	3499.98	14.53	14.90	1.089	0.05	0.237	0.258
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	633332	3499.98	17.38	17.90	1.127	-0.11	0.509	0.574



<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	1	11	2462	13.90	15.00	1.288	99.08	1.009	-0.06	0.105	0.136
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	1	11	2462	13.90	15.00	1.288	99.08	1.009	-0.07	0.105	0.136
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	11	2462	13.90	15.00	1.288	99.08	1.009	-0.1	0.449	0.584
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	11	2462	13.90	15.00	1.288	99.08	1.009	-0.18	0.239	0.311
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	11	2462	13.90	15.00	1.288	99.08	1.009	0.1	0.384	0.499
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1/2	12	2467	13.82	15.00	1.312	99.08	1.009	-0.08	0.863	1.143
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1/2	1	2412	13.62	15.00	1.374	99.08	1.009	-0.05	0.519	0.720
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1/2	6	2437	13.72	15.00	1.343	99.08	1.009	-0.04	0.596	0.807
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1/2	11	2462	13.62	15.00	1.374	99.08	1.009	-0.07	0.754	1.045
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1/2	13	2472	13.62	15.00	1.374	99.08	1.009	-0.12	0.658	0.912
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	1/2	12	2467	13.82	15.00	1.312	99.08	1.009	-0.02	0.153	0.203
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	1/2	12	2467	13.82	15.00	1.312	99.08	1.009	-0.04	0.265	0.351
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	1/2	12	2467	13.82	15.00	1.312	99.08	1.009	-0.07	0.058	0.077
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1/2	12	2467	13.82	15.00	1.312	99.08	1.009	-0.07	0.783	1.037
30	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (4)	1	1	2412	14.60	15.00	1.096	93.19	1.073	-0.13	0.113	0.133
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (3)	1	1	2412	13.72	15.00	1.343	93.19	1.073	-0.13	0.556	0.801
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (4)	1	6	2437	14.50	15.00	1.122	93.19	1.073	-0.05	0.152	0.183
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (3)	1	6	2437	13.32	15.00	1.472	93.19	1.073	-0.05	0.741	1.171
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (4)	1	11	2462	14.50	15.00	1.122	93.19	1.073	0.07	0.183	0.220
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (3)	1	11	2462	13.72	15.00	1.343	93.19	1.073	0.07	0.685	0.987
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+3 (4)	1	1	2412	14.60	15.00	1.096	93.19	1.073	0.05	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+3 (3)	1	1	2412	13.72	15.00	1.343	93.19	1.073	0.05	0.198	0.285
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3 (4)	1	1	2412	14.60	15.00	1.096	93.19	1.073	-0.06	0.379	0.446
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3 (3)	1	1	2412	13.72	15.00	1.343	93.19	1.073	-0.06	0.242	0.349
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3 (4)	1	1	2412	14.60	15.00	1.096	93.19	1.073	-0.18	0.283	0.333
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3 (3)	1	1	2412	13.72	15.00	1.343	93.19	1.073	-0.18	0.161	0.232
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (4)	1	6	2437	14.50	15.00	1.122	93.19	1.073	-0.12	0.136	0.164
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (3)	1	6	2437	13.32	15.00	1.472	93.19	1.073	-0.12	0.632	0.998
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	3	1	2412	9.90	10.00	1.023	99.08	1.009	-0.11	0.027	0.028
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	3	1	2412	9.90	10.00	1.023	99.08	1.009	-0.1	0.027	0.028
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	3	1	2412	9.90	10.00	1.023	99.08	1.009	-0.18	0.122	0.126
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	3	1	2412	9.90	10.00	1.023	99.08	1.009	-0.15	0.107	0.110
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	3	1	2412	9.90	10.00	1.023	99.08	1.009	0.1	0.117	0.121
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	3/4	6	2437	9.82	10.00	1.042	99.08	1.009	-0.14	0.269	0.283
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	3/4	6	2437	9.82	10.00	1.042	99.08	1.009	-0.03	0.046	0.048
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	3/4	6	2437	9.82	10.00	1.042	99.08	1.009	-0.06	0.110	0.116
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	3/4	6	2437	9.82	10.00	1.042	99.08	1.009	0.07	0.041	0.043
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	3/4	6	2437	9.82	10.00	1.042	99.08	1.009	-0.07	0.255	0.268
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (4)	3	6	2437	9.90	10.00	1.023	93.19	1.073	0.01	0.056	0.061
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (3)	3	6	2437	9.02	10.00	1.253	93.19	1.073	0.01	0.250	0.336
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+3 (4)	3	6	2437	9.90	10.00	1.023	93.19	1.073	0.03	0.065	0.071
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+3 (3)	3	6	2437	9.02	10.00	1.253	93.19	1.073	0.03	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3 (4)	3	6	2437	9.90	10.00	1.023	93.19	1.073	-0.03	0.128	0.141
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+3 (3)	3	6	2437	9.02	10.00	1.253	93.19	1.073	-0.03	0.068	0.091
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3 (4)	3	6	2437	9.90	10.00	1.023	93.19	1.073	-0.08	0.100	0.110
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+3 (3)	3	6	2437	9.02	10.00	1.253	93.19	1.073	-0.08	0.014	0.019
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (4)	3	6	2437	9.90	10.00	1.023	93.19	1.073	-0.07	0.050	0.055
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+3 (3)	3	6	2437	9.02	10.00	1.253	93.19	1.073	-0.07	0.202	0.272



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)
31	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1	54	5270	13.30	13.50	1.047	92.7	1.079	-0.04	0.335	0.379
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	54	5270	12.93	13.50	1.140	92.7	1.079	-0.04	0.846	1.041
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1	62	5310	10.60	11.50	1.230	92.7	1.079	0.01	0.143	0.190
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	62	5310	10.53	11.50	1.250	92.7	1.079	0.01	0.591	0.797
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 4+3 (4)	1	64	5320	13.50	13.50	1.000	93.46	1.070	0.04	0.270	0.289
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 4+3 (3)	1	64	5320	12.73	13.50	1.194	93.46	1.070	0.04	0.895	1.143
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4+3 (4)	1	54	5270	13.30	13.50	1.047	92.7	1.079	0.07	0.363	0.410
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4+3 (3)	1	54	5270	12.93	13.50	1.140	92.7	1.079	0.07	0.447	0.550
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3 (4)	1	54	5270	13.30	13.50	1.047	92.7	1.079	0.19	0.753	0.851
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3 (3)	1	54	5270	12.93	13.50	1.140	92.7	1.079	0.19	0.146	0.180
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3 (4)	1	54	5270	13.30	13.50	1.047	92.7	1.079	-0.08	0.604	0.682
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3 (3)	1	54	5270	12.93	13.50	1.140	92.7	1.079	-0.08	0.139	0.171
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 4+3 (4)	1	64	5320	13.50	13.50	1.000	93.46	1.070	-0.02	0.305	0.326
	WLAN5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 4+3 (3)	1	64	5320	12.73	13.50	1.194	93.46	1.070	-0.02	0.848	1.083
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4	2	54	5270	13.50	14.00	1.122	92.7	1.079	0.12	0.375	0.454
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4	2	54	5270	13.50	14.00	1.122	92.7	1.079	0.15	0.329	0.398
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	2	54	5270	13.50	14.00	1.122	92.7	1.079	-0.04	0.883	1.069
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	2	62	5310	10.90	11.50	1.148	92.7	1.079	0.02	0.389	0.482
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 4	2	60	5300	13.70	14.00	1.072	93.46	1.070	0.01	0.901	1.033
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4	2	54	5270	13.50	14.00	1.122	92.7	1.079	0.11	0.686	0.831
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4	2	62	5310	10.90	11.50	1.148	92.7	1.079	-0.07	0.355	0.440
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 4	2	60	5300	13.70	14.00	1.072	93.46	1.070	-0.18	0.685	0.785
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	2	54	5270	13.50	14.00	1.122	92.7	1.079	0.07	0.739	0.895
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	3	58	5290	9.60	10.50	1.230	89.9	1.112	0.05	0.143	0.196
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	3	58	5290	10.43	10.50	1.016	89.9	1.112	0.05	0.388	0.438
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (4)	3	58	5290	9.60	10.50	1.230	89.9	1.112	-0.01	0.147	0.201
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (3)	3	58	5290	10.43	10.50	1.016	89.9	1.112	-0.01	0.106	0.120
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	3	58	5290	9.60	10.50	1.230	89.9	1.112	0.01	0.260	0.356
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	3	58	5290	10.43	10.50	1.016	89.9	1.112	0.01	0.046	0.052
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (4)	3	58	5290	9.60	10.50	1.230	89.9	1.112	-0.09	0.310	0.424
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (3)	3	58	5290	10.43	10.50	1.016	89.9	1.112	-0.09	0.026	0.029
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	3	58	5290	9.60	10.50	1.230	89.9	1.112	0.11	0.155	0.212
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	3	58	5290	10.43	10.50	1.016	89.9	1.112	0.11	0.288	0.325
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	4	58	5290	11.20	11.50	1.072	89.9	1.112	0.05	0.125	0.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	4	58	5290	11.20	11.50	1.072	89.9	1.112	-0.16	0.131	0.156
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	4	58	5290	11.20	11.50	1.072	89.9	1.112	0.03	0.340	0.405
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	4	58	5290	11.20	11.50	1.072	89.9	1.112	-0.09	0.211	0.251
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	4	58	5290	11.20	11.50	1.072	89.9	1.112	-0.03	0.297	0.354



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	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1	122	5610	13.50	13.50	1.000	89.9	1.112	0.06	0.521	0.579
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	122	5610	13.33	13.50	1.040	89.9	1.112	0.06	0.771	0.892
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1	106	5530	11.30	11.50	1.047	89.9	1.112	0.05	0.205	0.239
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	106	5530	10.63	11.50	1.222	89.9	1.112	0.05	0.328	0.446
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1	138	5690	13.50	13.50	1.000	89.9	1.112	-0.02	0.401	0.446
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	138	5690	12.93	13.50	1.140	89.9	1.112	-0.02	0.882	1.118
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (4)	1	122	5610	13.50	13.50	1.000	89.9	1.112	0.01	0.527	0.586
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (3)	1	122	5610	13.33	13.50	1.040	89.9	1.112	0.01	0.525	0.607
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	1	122	5610	13.50	13.50	1.000	89.9	1.112	0.01	0.938	1.043
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	1	122	5610	13.33	13.50	1.040	89.9	1.112	0.01	0.318	0.368
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	1	106	5530	11.30	11.50	1.047	89.9	1.112	0.01	0.432	0.503
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	1	106	5530	10.63	11.50	1.222	89.9	1.112	0.01	0.126	0.171
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	1	138	5690	13.50	13.50	1.000	89.9	1.112	0.07	0.926	1.030
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	1	138	5690	12.93	13.50	1.140	89.9	1.112	0.07	0.354	0.449
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (4)	1	122	5610	13.50	13.50	1.000	89.9	1.112	0.01	0.845	0.940
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (3)	1	122	5610	13.33	13.50	1.040	89.9	1.112	0.01	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (4)	1	106	5530	11.30	11.50	1.047	89.9	1.112	0.16	0.296	0.345
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (3)	1	106	5530	10.63	11.50	1.222	89.9	1.112	0.16	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (4)	1	138	5690	13.50	13.50	1.000	89.9	1.112	-0.02	0.899	1.000
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (3)	1	138	5690	12.93	13.50	1.140	89.9	1.112	-0.02	0.093	0.118
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1	138	5690	13.50	13.50	1.000	89.9	1.112	0.05	0.489	0.544
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	138	5690	12.93	13.50	1.140	89.9	1.112	0.05	0.868	1.101
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	2	138	5690	13.90	14.00	1.023	89.9	1.112	-0.09	0.514	0.585
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	2	138	5690	13.90	14.00	1.023	89.9	1.112	0.1	0.502	0.571
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	138	5690	13.90	14.00	1.023	89.9	1.112	0.01	0.934	1.063
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	106	5530	11.30	11.50	1.047	89.9	1.112	-0.09	0.380	0.442
32	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	122	5610	13.80	14.00	1.047	89.9	1.112	0.04	0.966	1.125
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	2	138	5690	13.90	14.00	1.023	89.9	1.112	-0.17	0.838	0.954
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	2	106	5530	11.30	11.50	1.047	89.9	1.112	-0.07	0.346	0.403
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	2	122	5610	13.80	14.00	1.047	89.9	1.112	-0.12	0.805	0.937
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	122	5610	13.80	14.00	1.047	89.9	1.112	-0.01	0.952	1.109
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	3	106	5530	9.40	9.50	1.023	89.9	1.112	0.05	0.131	0.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	3	106	5530	9.33	9.50	1.040	89.9	1.112	0.05	0.232	0.268
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (4)	3	106	5530	9.40	9.50	1.023	89.9	1.112	0.07	0.131	0.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (3)	3	106	5530	9.33	9.50	1.040	89.9	1.112	0.07	0.132	0.153
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	3	106	5530	9.40	9.50	1.023	89.9	1.112	0.09	0.205	0.233
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	3	106	5530	9.33	9.50	1.040	89.9	1.112	0.09	0.038	0.044
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (4)	3	106	5530	9.40	9.50	1.023	89.9	1.112	0.1	0.232	0.264
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (3)	3	106	5530	9.33	9.50	1.040	89.9	1.112	0.1	0.059	0.068
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	3	106	5530	9.50	9.50	1.000	89.9	1.112	0.07	0.149	0.166
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	3	106	5530	9.10	9.50	1.096	89.9	1.112	0.07	0.154	0.188
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	4	106	5530	9.80	10.00	1.047	89.9	1.112	0.1	0.159	0.185
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	4	106	5530	9.80	10.00	1.047	89.9	1.112	0.11	0.165	0.192
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	4	106	5530	9.80	10.00	1.047	89.9	1.112	0.06	0.331	0.385
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	4	106	5530	9.80	10.00	1.047	89.9	1.112	-0.18	0.289	0.337
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	4	106	5530	9.80	10.00	1.047	89.9	1.112	0.05	0.280	0.326

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)	1	155	5775	12.90	13.50	1.148	89.9	1.112	-0.16	0.305	0.389
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	155	5775	12.13	13.50	1.371	89.9	1.112	-0.16	0.743	1.133
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1	151	5755	12.90	13.50	1.148	92.7	1.079	0.19	0.298	0.369
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	151	5755	11.83	13.50	1.469	92.7	1.079	0.19	0.722	1.144
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (4)	1	155	5775	12.90	13.50	1.148	89.9	1.112	-0.16	0.287	0.366
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (3)	1	155	5775	12.13	13.50	1.371	89.9	1.112	-0.16	0.394	0.601
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	1	155	5775	12.90	13.50	1.148	89.9	1.112	0.02	0.504	0.643
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	1	155	5775	12.13	13.50	1.371	89.9	1.112	0.02	0.246	0.375
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (4)	1	155	5775	12.90	13.50	1.148	89.9	1.112	0.12	0.454	0.580
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (3)	1	155	5775	12.13	13.50	1.371	89.9	1.112	0.12	0.237	0.361
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1	151	5755	12.90	13.50	1.148	92.7	1.079	-0.12	0.251	0.311
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	151	5755	11.83	13.50	1.469	92.7	1.079	-0.12	0.532	0.843
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	2	155	5775	12.80	14.50	1.479	89.9	1.112	0.19	0.298	0.490
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	2	155	5775	12.80	14.50	1.479	89.9	1.112	0.1	0.302	0.497
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	155	5775	12.80	14.50	1.479	89.9	1.112	0.07	0.623	1.025
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	2	159	5795	12.90	14.50	1.445	92.7	1.079	-0.03	0.583	0.909
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	2	155	5775	12.80	14.50	1.479	89.9	1.112	-0.04	0.528	0.615
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	155	5775	12.80	14.50	1.479	89.9	1.112	-0.14	0.492	0.809
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	3	155	5775	8.60	9.00	1.096	89.9	1.112	0.04	0.101	0.123
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	3	155	5775	8.33	9.00	1.167	89.9	1.112	0.04	0.232	0.301
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (4)	3	155	5775	8.60	9.00	1.096	89.9	1.112	0.08	0.120	0.146
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (3)	3	155	5775	8.33	9.00	1.167	89.9	1.112	0.08	0.143	0.186
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	3	155	5775	8.60	9.00	1.096	89.9	1.112	0.03	0.132	0.161
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	3	155	5775	8.33	9.00	1.167	89.9	1.112	0.03	0.031	0.040
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (4)	3	155	5775	8.60	9.00	1.096	89.9	1.112	-0.13	0.182	0.222
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (3)	3	155	5775	8.33	9.00	1.167	89.9	1.112	-0.13	0.068	0.088
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	3	155	5775	8.60	9.00	1.096	89.9	1.112	0.04	0.117	0.143
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	3	155	5775	8.33	9.00	1.167	89.9	1.112	0.04	0.231	0.300
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	4	155	5775	10.20	10.50	1.072	89.9	1.112	0.1	0.150	0.179
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	4	155	5775	10.20	10.50	1.072	89.9	1.112	-0.16	0.157	0.187
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	4	155	5775	10.20	10.50	1.072	89.9	1.112	0.18	0.265	0.316
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	4	155	5775	10.20	10.50	1.072	89.9	1.112	0.16	0.238	0.284
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	4	155	5775	10.20	10.50	1.072	89.9	1.112	-0.13	0.238	0.284

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)	1	171	5855	13.40	13.50	1.023	89.9	1.112	-0.02	0.391	0.445
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	171	5855	12.58	13.50	1.236	89.9	1.112	-0.02	0.856	1.176
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1	167	5835	13.20	13.50	1.072	92.7	1.079	0.09	0.388	0.449
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	167	5835	12.83	13.50	1.167	92.7	1.079	0.09	0.819	1.031
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (4)	1	171	5855	13.40	13.50	1.023	89.9	1.112	-0.02	0.460	0.523
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (3)	1	171	5855	12.58	13.50	1.236	89.9	1.112	-0.02	0.515	0.708
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	1	171	5855	13.40	13.50	1.023	89.9	1.112	0.18	0.936	1.065
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	1	171	5855	12.58	13.50	1.236	89.9	1.112	0.18	0.156	0.214
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3 (4)	1	167	5835	13.20	13.50	1.072	92.7	1.079	0.1	0.714	0.826
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+3 (3)	1	167	5835	12.83	13.50	1.167	92.7	1.079	0.1	0.148	0.186
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (4)	1	171	5855	13.40	13.50	1.023	89.9	1.112	-0.07	0.816	0.929
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (3)	1	171	5855	12.58	13.50	1.236	89.9	1.112	-0.07	0.228	0.313
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3 (4)	1	167	5835	13.20	13.50	1.072	89.9	1.112	0.16	0.778	0.927
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3 (3)	1	167	5835	12.83	13.50	1.167	89.9	1.112	0.16	0.189	0.245
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1	171	5855	13.40	13.50	1.023	89.9	1.112	-0.04	0.457	0.520
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1	171	5855	12.58	13.50	1.236	89.9	1.112	-0.04	0.820	1.127
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	2	171	5855	13.30	14.50	1.318	89.9	1.112	-0.06	0.440	0.645
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	2	171	5855	13.30	14.50	1.318	89.9	1.112	0.05	0.435	0.638
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	171	5855	13.30	14.50	1.318	89.9	1.112	0.12	0.765	1.121
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	2	167	5835	13.10	14.50	1.380	92.7	1.079	-0.1	0.757	1.128
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	2	171	5855	13.30	14.50	1.318	89.9	1.112	0.02	0.740	1.085
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4	2	167	5835	13.10	14.50	1.380	92.7	1.079	0.03	0.712	1.060
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	2	167	5835	13.10	14.50	1.380	92.7	1.079	0.03	0.673	1.002
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	3	171	5855	9.45	9.50	1.012	89.9	1.112	-0.09	0.119	0.134
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	3	171	5855	8.79	9.50	1.178	89.9	1.112	-0.09	0.249	0.326
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (4)	3	171	5855	9.45	9.50	1.012	89.9	1.112	-0.14	0.108	0.121
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+3 (3)	3	171	5855	8.79	9.50	1.178	89.9	1.112	-0.14	0.150	0.196
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	3	171	5855	9.45	9.50	1.012	89.9	1.112	-0.05	0.192	0.216
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	3	171	5855	8.79	9.50	1.178	89.9	1.112	-0.05	0.100	0.131
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (4)	3	171	5855	9.45	9.50	1.012	89.9	1.112	0.03	0.184	0.207
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3 (3)	3	171	5855	8.79	9.50	1.178	89.9	1.112	0.03	0.094	0.123
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	3	171	5855	9.45	9.50	1.012	89.9	1.112	0.03	0.150	0.169
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	3	171	5855	8.79	9.50	1.178	89.9	1.112	0.03	0.239	0.313
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	4	171	5855	10.55	11.00	1.109	89.9	1.112	0.14	0.158	0.195
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	4	171	5855	10.55	11.00	1.109	89.9	1.112	-0.11	0.164	0.202
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	4	171	5855	10.55	11.00	1.109	89.9	1.112	0.18	0.272	0.335
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	4	171	5855	10.55	11.00	1.109	89.9	1.112	0.05	0.261	0.322
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	4	171	5855	10.55	11.00	1.109	89.9	1.112	0.13	0.261	0.322



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-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1/3	215	7025	14.18	14.50	1.076	88.24	1.133	-0.02	0.198	0.241	1.240	1.512
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1/3	215	7025	13.47	14.50	1.268	88.24	1.133	-0.02	0.302	0.434	2.000	2.872
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1/3	7	5985	10.55	11.50	1.245	88.24	1.133	0.04	0.084	0.118	0.447	0.630
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1/3	7	5985	10.10	11.50	1.380	88.24	1.133	0.04	0.266	0.416	1.670	2.612
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1/3	71	6305	10.95	11.50	1.135	88.24	1.133	-0.04	0.155	0.199	1.050	1.350
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1/3	71	6305	10.70	11.50	1.202	88.24	1.133	-0.04	0.125	0.170	0.832	1.133
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1/3	119	6545	12.45	13.50	1.274	88.24	1.133	-0.14	0.295	0.426	2.040	2.943
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1/3	119	6545	11.57	13.50	1.560	88.24	1.133	-0.14	0.245	0.433	1.480	2.615
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1/3	167	6785	13.95	14.50	1.135	88.24	1.133	-0.1	0.324	0.417	1.900	2.443
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1/3	167	6785	13.17	14.50	1.358	88.24	1.133	-0.1	0.210	0.323	1.390	2.139
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3 (4)	1/3	215	7025	14.18	14.50	1.076	88.24	1.133	0.13	0.161	0.196	1.000	1.220
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+3 (3)	1/3	215	7025	13.47	14.50	1.268	88.24	1.133	0.01	0.001	0.001	0.000	0.000
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	1/3	215	7025	14.18	14.50	1.076	88.24	1.133	0.13	0.280	0.341	1.950	2.378
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	1/3	215	7025	13.47	14.50	1.268	88.24	1.133	0.13	0.203	0.292	1.290	1.853
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3 (4)	1/3	215	7025	14.18	14.50	1.076	88.24	1.133	0.14	0.246	0.300	1.630	1.988
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+3 (3)	1/3	215	7025	13.47	14.50	1.268	88.24	1.133	0.14	0.001	0.001	0.000	0.000
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (4)	1/3	215	7025	14.00	14.50	1.122	88.24	1.133	-0.11	0.134	0.170	0.783	0.995
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+3 (3)	1/3	215	7025	13.30	14.50	1.318	88.24	1.133	-0.11	0.205	0.306	1.080	1.613
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4	2	215	7025	14.48	14.50	1.005	88.24	1.133	0.01	0.105	0.120	0.552	0.628
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4	2	215	7025	14.48	14.50	1.005	88.24	1.133	0.16	0.108	0.123	0.568	0.647
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	2	215	7025	14.48	14.50	1.005	88.24	1.133	-0.09	0.209	0.238	1.230	1.400
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	2	7	5985	12.25	12.50	1.059	88.24	1.133	0.12	0.561	0.673	3.650	4.380
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	2	71	6305	12.45	12.50	1.012	88.24	1.133	0.01	0.410	0.470	2.670	3.060
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	2	119	6545	12.75	13.50	1.189	88.24	1.133	0.01	0.650	0.875	4.000	5.386
35	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	2	167	6785	14.48	14.50	1.005	88.24	1.133	-0.1	0.988	1.125	5.860	6.670
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4	2	215	7025	14.48	14.50	1.005	88.24	1.133	0.01	0.156	0.178	0.894	1.018
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	2	167	6785	14.48	14.50	1.005	88.24	1.133	-0.11	0.866	0.986	5.320	6.055
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4	4	215	7025	14.48	14.50	1.005	88.24	1.133	0.01	0.105	0.120	0.552	0.628
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4	4	215	7025	14.48	14.50	1.005	88.24	1.133	0.16	0.108	0.123	0.568	0.647
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	4	215	7025	14.48	14.50	1.005	88.24	1.133	-0.09	0.209	0.238	1.230	1.400
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	4	7	5985	9.75	10.50	1.189	88.24	1.133	0.14	0.293	0.395	2.200	2.962
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	4	71	6305	9.85	10.50	1.161	88.24	1.133	0.05	0.217	0.286	1.330	1.750
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	4	119	6545	10.51	12.50	1.581	88.24	1.133	0.08	0.213	0.382	1.490	2.669
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	4	167	6785	9.65	11.50	1.531	88.24	1.133	0.17	0.233	0.404	1.580	2.741
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4	4	215	7025	14.48	14.50	1.005	88.24	1.133	0.01	0.156	0.178	0.894	1.018
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	4	167	6785	9.65	11.50	1.531	88.24	1.133	-0.03	0.227	0.394	1.520	2.637

<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)
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FCC SAR TEST REPORT

Report No. : FA451606B

	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	1	39	2441	9.30	9.50	1.047	77.13	1.080	0.19	0.034	0.038
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	1	39	2441	9.30	9.50	1.047	77.13	1.080	0.04	0.031	0.035
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	1	39	2441	9.30	9.50	1.047	77.13	1.080	0	0.001	0.001
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	1	39	2441	9.30	9.50	1.047	77.13	1.080	0	0.001	0.001
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	1	39	2441	9.30	9.50	1.047	77.13	1.080	-0.12	0.030	0.034
36	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	1	39	2441	9.12	9.50	1.091	77.13	1.080	-0.09	0.202	0.238
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3	1	39	2441	9.12	9.50	1.091	77.13	1.080	-0.14	0.031	0.037
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	1	39	2441	9.12	9.50	1.091	77.13	1.080	-0.08	0.074	0.087
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3	1	39	2441	9.12	9.50	1.091	77.13	1.080	0.08	0.025	0.029
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	1	39	2441	9.12	9.50	1.091	77.13	1.080	0.07	0.157	0.185

14.2 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	4	189	836.4	28.16	29.20	1.271	-0.02	0.338	0.429
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	4	189	836.4	28.16	29.20	1.271	-0.02	0.351	0.446
37	GSM850_Ant 0	GPRS (4 Tx slots)	Left Side	10mm	4	189	836.4	28.16	29.20	1.271	-0.05	0.454	0.577
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Side	10mm	4	189	836.4	28.16	29.20	1.271	-0.08	0.232	0.295
	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	4	189	836.4	28.16	29.20	1.271	-0.04	0.272	0.346
	GSM850_Ant 1	GPRS (4 Tx slots)	Front	10mm	4	189	836.4	25.49	26.20	1.178	-0.02	0.263	0.310
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	4	189	836.4	25.49	26.20	1.178	0.11	0.363	0.427
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Side	10mm	4	189	836.4	25.49	26.20	1.178	0.19	0.113	0.133
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Side	10mm	4	189	836.4	25.49	26.20	1.178	0.06	0.097	0.114
	GSM850_Ant 1	GPRS (4 Tx slots)	Top Side	10mm	4	189	836.4	25.49	26.20	1.178	0	0.187	0.220
	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	4	661	1880	24.24	25.80	1.432	-0.01	0.344	0.493
38	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	4	661	1880	24.24	25.80	1.432	-0.14	0.516	0.739
	GSM1900_Ant 2	GPRS (4 Tx slots)	Left Side	10mm	4	661	1880	24.24	25.80	1.432	0.05	0.001	0.001
	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Side	10mm	4	661	1880	24.24	25.80	1.432	-0.08	0.479	0.686
	GSM1900_Ant 2	GPRS (4 Tx slots)	Bottom Side	10mm	4	661	1880	24.24	25.80	1.432	0.03	0.217	0.311
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	4	661	1880	24.75	25.50	1.189	-0.18	0.256	0.304
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	4	661	1880	24.75	25.50	1.189	-0.03	0.379	0.450
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Side	10mm	4	661	1880	24.75	25.50	1.189	0.12	0.326	0.387
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Side	10mm	4	661	1880	24.75	25.50	1.189	0.08	0.001	0.001
	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Side	10mm	4	661	1880	24.75	25.50	1.189	-0.17	0.251	0.298

<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	4	9400	1880	21.40	22.10	1.175	0.07	0.483	0.567
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	4	9400	1880	21.40	22.10	1.175	-0.04	0.517	0.607
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Side	10mm	4	9400	1880	21.40	22.10	1.175	-0.18	0.050	0.059
39	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	4	9400	1880	21.40	22.10	1.175	-0.05	0.588	0.691
	WCDMA II_Ant 2	RMC 12.2Kbps	Bottom Side	10mm	4	9400	1880	21.40	22.10	1.175	0.1	0.282	0.331
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	4	9400	1880	20.42	21.90	1.406	-0.11	0.165	0.232
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	4	9400	1880	20.42	21.90	1.406	-0.15	0.293	0.412
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Side	10mm	4	9400	1880	20.42	21.90	1.406	0.03	0.196	0.276
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Side	10mm	4	9400	1880	20.42	21.90	1.406	0.1	0.001	0.001
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	4	9400	1880	20.42	21.90	1.406	0.16	0.280	0.394
	WCDMA IV_Ant 2	RMC 12.2Kbps	Front	10mm	4	1413	1732.6	21.19	22.30	1.291	-0.11	0.397	0.513
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	4	1413	1732.6	21.19	22.30	1.291	-0.05	0.470	0.607
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Side	10mm	4	1413	1732.6	21.19	22.30	1.291	0.03	0.001	0.001
40	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Side	10mm	4	1413	1732.6	21.19	22.30	1.291	-0.14	0.479	0.618
	WCDMA IV_Ant 2	RMC 12.2Kbps	Bottom Side	10mm	4	1413	1732.6	21.19	22.30	1.291	0.03	0.262	0.338
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	4	1413	1732.6	22.65	23.60	1.245	-0.06	0.314	0.391
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	4	1413	1732.6	22.65	23.60	1.245	-0.11	0.362	0.451
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Side	10mm	4	1413	1732.6	22.65	23.60	1.245	-0.16	0.285	0.355
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Side	10mm	4	1413	1732.6	22.65	23.60	1.245	0.05	0.045	0.056
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	4	1413	1732.6	22.65	23.60	1.245	-0.03	0.353	0.439
	WCDMA V_Ant 0	RMC 12.2Kbps	Front	10mm	4	4182	836.4	24.77	25.50	1.183	-0.04	0.378	0.447
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.77	25.50	1.183	-0.03	0.384	0.454
41	WCDMA V_Ant 0	RMC 12.2Kbps	Left Side	10mm	4	4182	836.4	24.77	25.50	1.183	0	0.539	0.638
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Side	10mm	4	4182	836.4	24.77	25.50	1.183	0.15	0.264	0.312
	WCDMA V_Ant 0	RMC 12.2Kbps	Bottom Side	10mm	4	4182	836.4	24.77	25.50	1.183	-0.08	0.341	0.403
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	10mm	4	4182	836.4	20.65	22.50	1.531	0.08	0.150	0.230
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4	4182	836.4	20.65	22.50	1.531	0	0.232	0.355
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Side	10mm	4	4182	836.4	20.65	22.50	1.531	0.03	0.054	0.083
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Side	10mm	4	4182	836.4	20.65	22.50	1.531	-0.08	0.058	0.089
	WCDMA V_Ant 1	RMC 12.2Kbps	Top Side	10mm	4	4182	836.4	20.65	22.50	1.531	-0.08	0.113	0.173

**<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	4	18900	1880	17.91	18.7	1.199	0.08	0.273	0.327
	LTE Band 2_Ant 1	20M	QPSK	50	0	Front	10mm	4	18900	1880	17.84	18.7	1.219	0.01	0.265	0.323
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	4	18900	1880	17.91	18.7	1.199	-0.17	0.341	0.409
	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	4	18900	1880	17.84	18.7	1.219	-0.08	0.335	0.408
	LTE Band 2_Ant 1	20M	QPSK	1	0	Left Side	10mm	4	18900	1880	17.91	18.7	1.199	-0.08	0.228	0.273
	LTE Band 2_Ant 1	20M	QPSK	50	0	Left Side	10mm	4	18900	1880	17.84	18.7	1.219	0.1	0.223	0.272
	LTE Band 2_Ant 1	20M	QPSK	1	0	Right Side	10mm	4	18900	1880	17.91	18.7	1.199	-0.18	0.001	0.001
	LTE Band 2_Ant 1	20M	QPSK	50	0	Right Side	10mm	4	18900	1880	17.84	18.7	1.219	0.1	0.001	0.001
	LTE Band 2_Ant 1	20M	QPSK	1	0	Top Side	10mm	4	18900	1880	17.91	18.7	1.199	0.12	0.261	0.313
	LTE Band 2_Ant 1	20M	QPSK	50	0	Top Side	10mm	4	18900	1880	17.84	18.7	1.219	0.08	0.314	0.383
	LTE Band 2_Ant 5	20M	QPSK	1	0	Front	10mm	4	18900	1880	20.61	21.00	1.094	0.06	0.236	0.258
	LTE Band 2_Ant 5	20M	QPSK	50	0	Front	10mm	4	18900	1880	20.32	21.00	1.169	-0.03	0.279	0.326
	LTE Band 2_Ant 5	20M	QPSK	1	0	Back	10mm	4	18900	1880	20.61	21.00	1.094	0.03	0.300	0.328
	LTE Band 2_Ant 5	20M	QPSK	50	0	Back	10mm	4	18900	1880	20.32	21.00	1.169	-0.07	0.348	0.407
	LTE Band 2_Ant 5	20M	QPSK	1	0	Left Side	10mm	4	18900	1880	20.61	21.00	1.094	0.13	0.001	0.001
	LTE Band 2_Ant 5	20M	QPSK	50	0	Left Side	10mm	4	18900	1880	20.32	21.00	1.169	-0.03	0.001	0.001
	LTE Band 2_Ant 5	20M	QPSK	1	0	Right Side	10mm	4	18900	1880	20.61	21.00	1.094	0.08	0.523	0.572
42	LTE Band 2_Ant 5	20M	QPSK	50	0	Right Side	10mm	4	18900	1880	20.32	21.00	1.169	0.05	0.575	0.672
	LTE Band 2_Ant 5	20M	QPSK	1	0	Top Side	10mm	4	18900	1880	20.61	21.00	1.094	0.18	0.304	0.333
	LTE Band 2_Ant 5	20M	QPSK	50	0	Top Side	10mm	4	18900	1880	20.32	21.00	1.169	0.15	0.310	0.363
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	4	21100	2535	19.82	21.30	1.406	-0.01	0.370	0.520
	LTE Band 7_Ant 2	20M	QPSK	50	0	Front	10mm	4	21100	2535	19.91	21.30	1.377	0.08	0.364	0.501
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	4	21100	2535	19.82	21.30	1.406	-0.05	0.462	0.650
	LTE Band 7_Ant 2	20M	QPSK	50	0	Back	10mm	4	21100	2535	19.91	21.30	1.377	-0.08	0.469	0.646
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Side	10mm	4	21100	2535	19.82	21.30	1.406	0.12	0.041	0.058
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Side	10mm	4	21100	2535	19.91	21.30	1.377	0.08	0.038	0.052
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	21100	2535	19.82	21.30	1.406	-0.17	0.574	0.807
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	20850	2510	19.77	21.30	1.422	-0.03	0.548	0.779
43	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	21350	2560	19.72	21.30	1.439	-0.03	0.574	0.826
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	21100	2535	19.91	21.30	1.377	0.14	0.566	0.780
	LTE Band 7_Ant 2	20M	QPSK	100	0	Right Side	10mm	4	21100	2535	19.87	21.30	1.390	0.18	0.556	0.773
	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	4	21100	2535	19.82	21.30	1.406	-0.08	0.397	0.558
	LTE Band 7_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	4	21100	2535	19.91	21.30	1.377	0.1	0.366	0.504
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	4	21100	2535	20.19	21.00	1.205	0.08	0.337	0.406
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	4	21100	2535	20.20	21.00	1.202	0.01	0.319	0.384
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	4	21100	2535	20.19	21.00	1.205	-0.18	0.320	0.386
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	4	21100	2535	20.20	21.00	1.202	-0.08	0.320	0.385
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Side	10mm	4	21100	2535	20.19	21.00	1.205	0.04	0.364	0.439
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Side	10mm	4	21100	2535	20.20	21.00	1.202	0.1	0.357	0.429
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Side	10mm	4	21100	2535	20.19	21.00	1.205	-0.18	0.030	0.036
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Side	10mm	4	21100	2535	20.20	21.00	1.202	0.1	0.030	0.036
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	21100	2535	20.19	21.00	1.205	0.12	0.095	0.114
	LTE Band 7_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	4	21100	2535	20.20	21.00	1.202	0.08	0.096	0.115



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	4	23095	707.5	24.66	25.70	1.271	0.01	0.261	0.332
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	4	23095	707.5	23.81	24.70	1.227	0.1	0.213	0.261
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	4	23095	707.5	24.66	25.70	1.271	0.01	0.289	0.367
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	4	23095	707.5	23.81	24.70	1.227	-0.17	0.224	0.275
44	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Side	10mm	4	23095	707.5	24.66	25.70	1.271	0.01	0.359	0.456
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Side	10mm	4	23095	707.5	23.81	24.70	1.227	0.04	0.340	0.417
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Side	10mm	4	23095	707.5	24.66	25.70	1.271	0	0.208	0.264
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Side	10mm	4	23095	707.5	23.81	24.70	1.227	0.05	0.173	0.212
	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	4	23095	707.5	24.66	25.70	1.271	-0.01	0.133	0.169
	LTE Band 12_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	4	23095	707.5	23.81	24.70	1.227	-0.08	0.110	0.135
	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	4	23095	707.5	23.72	25.10	1.374	0	0.227	0.312
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	10mm	4	23095	707.5	22.80	24.20	1.380	0.11	0.183	0.253
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	4	23095	707.5	23.72	25.10	1.374	0	0.325	0.447
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	10mm	4	23095	707.5	22.80	24.20	1.380	-0.05	0.257	0.355
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Side	10mm	4	23095	707.5	23.72	25.10	1.374	-0.02	0.272	0.374
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Side	10mm	4	23095	707.5	22.80	24.20	1.380	0.18	0.199	0.275
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Side	10mm	4	23095	707.5	23.72	25.10	1.374	0.14	0.190	0.261
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Side	10mm	4	23095	707.5	22.80	24.20	1.380	-0.17	0.153	0.211
	LTE Band 12_Ant 1	10M	QPSK	1	0	Top Side	10mm	4	23095	707.5	23.72	25.10	1.374	0.17	0.173	0.238
	LTE Band 12_Ant 1	10M	QPSK	25	0	Top Side	10mm	4	23095	707.5	22.80	24.20	1.380	-0.05	0.209	0.289
	LTE Band 13_Ant 0	10M	QPSK	1	0	Front	10mm	4	23230	782	24.71	25.20	1.119	0.01	0.411	0.460
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	4	23230	782	23.83	24.70	1.222	0.01	0.332	0.406
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	4	23230	782	24.71	25.20	1.119	0.01	0.400	0.448
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	4	23230	782	23.83	24.70	1.222	0.03	0.325	0.397
45	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Side	10mm	4	23230	782	24.71	25.20	1.119	0.14	0.586	0.656
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Side	10mm	4	23230	782	23.83	24.70	1.222	-0.08	0.499	0.610
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Side	10mm	4	23230	782	24.71	25.20	1.119	-0.08	0.342	0.383
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Side	10mm	4	23230	782	23.83	24.70	1.222	0.1	0.264	0.323
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	4	23230	782	24.71	25.20	1.119	-0.18	0.313	0.350
	LTE Band 13_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	4	23230	782	23.83	24.70	1.222	0.1	0.254	0.310
	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	10mm	4	23230	782	22.40	23.20	1.202	0.08	0.217	0.261
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	4	23230	782	22.27	23.20	1.239	0.01	0.221	0.274
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	4	23230	782	22.40	23.20	1.202	0	0.320	0.385
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	4	23230	782	22.27	23.20	1.239	0.03	0.308	0.382
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Side	10mm	4	23230	782	22.40	23.20	1.202	-0.08	0.160	0.192
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Side	10mm	4	23230	782	22.27	23.20	1.239	-0.08	0.172	0.213
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Side	10mm	4	23230	782	22.40	23.20	1.202	0.1	0.124	0.149
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Side	10mm	4	23230	782	22.27	23.20	1.239	-0.18	0.119	0.147
	LTE Band 13_Ant 1	10M	QPSK	1	0	Top Side	10mm	4	23230	782	22.40	23.20	1.202	0.1	0.140	0.168
	LTE Band 13_Ant 1	10M	QPSK	25	0	Top Side	10mm	4	23230	782	22.27	23.20	1.239	0.12	0.188	0.233



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	4	23330	793	24.73	25.10	1.089	-0.04	0.416	0.453
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	4	23330	793	23.81	24.70	1.227	0.06	0.326	0.400
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	4	23330	793	24.73	25.10	1.089	0	0.373	0.406
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	4	23330	793	23.81	24.70	1.227	-0.09	0.296	0.363
46	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Side	10mm	4	23330	793	24.73	25.10	1.089	-0.01	0.604	0.658
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Side	10mm	4	23330	793	23.81	24.70	1.227	-0.08	0.473	0.581
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Side	10mm	4	23330	793	24.73	25.10	1.089	0.13	0.370	0.403
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Side	10mm	4	23330	793	23.81	24.70	1.227	0.12	0.294	0.361
	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	4	23330	793	24.73	25.10	1.089	0.03	0.309	0.336
	LTE Band 14_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	4	23330	793	23.81	24.70	1.227	0.18	0.243	0.298
	LTE Band 14_Ant 1	10M	QPSK	1	0	Front	10mm	4	23330	793	22.37	23.40	1.268	0.08	0.213	0.270
	LTE Band 14_Ant 1	10M	QPSK	25	0	Front	10mm	4	23330	793	22.42	23.40	1.253	-0.17	0.23	0.288
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	4	23330	793	22.37	23.40	1.268	-0.01	0.316	0.401
	LTE Band 14_Ant 1	10M	QPSK	25	0	Back	10mm	4	23330	793	22.42	23.40	1.253	-0.03	0.317	0.397
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Side	10mm	4	23330	793	22.37	23.40	1.268	0.14	0.11	0.139
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Side	10mm	4	23330	793	22.42	23.40	1.253	0.11	0.121	0.152
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Side	10mm	4	23330	793	22.37	23.40	1.268	-0.05	0.101	0.128
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Side	10mm	4	23330	793	22.42	23.40	1.253	0.18	0.096	0.120
	LTE Band 14_Ant 1	10M	QPSK	1	0	Top Side	10mm	4	23330	793	22.37	23.40	1.268	0.14	0.148	0.188
	LTE Band 14_Ant 1	10M	QPSK	25	0	Top Side	10mm	4	23330	793	22.42	23.40	1.253	-0.17	0.177	0.222
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	4	26340	1880	20.61	22.20	1.442	0.06	0.384	0.554
	LTE Band 25_Ant 2	20M	QPSK	50	0	Front	10mm	4	26340	1880	20.58	22.20	1.452	-0.07	0.420	0.610
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	4	26340	1880	20.61	22.20	1.442	-0.04	0.497	0.717
	LTE Band 25_Ant 2	20M	QPSK	50	0	Back	10mm	4	26340	1880	20.58	22.20	1.452	-0.02	0.476	0.691
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Side	10mm	4	26340	1880	20.61	22.20	1.442	-0.11	0.061	0.088
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Side	10mm	4	26340	1880	20.58	22.20	1.452	-0.01	0.059	0.086
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	26340	1880	20.61	22.20	1.442	-0.17	0.568	0.819
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	26140	1860	20.30	22.20	1.549	0.18	0.474	0.734
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	26590	1905	20.35	22.20	1.531	0	0.535	0.819
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	26340	1880	20.58	22.20	1.452	0.07	0.574	0.834
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	26140	1860	20.40	22.20	1.514	-0.01	0.503	0.761
47	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	26590	1905	20.44	22.20	1.500	-0.18	0.565	0.847
	LTE Band 25_Ant 2	20M	QPSK	100	0	Right Side	10mm	4	26340	1880	20.42	22.20	1.507	0.01	0.551	0.830
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	4	26340	1880	20.61	22.20	1.442	-0.05	0.257	0.371
	LTE Band 25_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	4	26340	1880	20.58	22.20	1.452	-0.06	0.253	0.367
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	4	26340	1880	21.94	22.70	1.191	0.14	0.269	0.320
	LTE Band 25_Ant 0	20M	QPSK	50	0	Front	10mm	4	26340	1880	21.85	22.70	1.216	0.11	0.262	0.319
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	4	26340	1880	21.94	22.70	1.191	-0.01	0.383	0.456
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	4	26340	1880	21.85	22.70	1.216	0.18	0.374	0.455
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Side	10mm	4	26340	1880	21.94	22.70	1.191	0.17	0.406	0.484
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Side	10mm	4	26340	1880	21.85	22.70	1.216	-0.05	0.392	0.477
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Side	10mm	4	26340	1880	21.94	22.70	1.191	0.01	0.001	0.001
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Side	10mm	4	26340	1880	21.85	22.70	1.216	0.1	0.001	0.001
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	26340	1880	21.94	22.70	1.191	-0.02	0.457	0.544
	LTE Band 25_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	4	26340	1880	21.85	22.70	1.216	-0.17	0.431	0.524



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	4	26865	831.5	24.67	25.50	1.211	-0.01	0.333	0.403
	LTE Band 26_Ant 0	15M	QPSK	36	0	Front	10mm	4	26865	831.5	23.77	24.70	1.239	-0.17	0.268	0.332
	LTE Band 26_Ant 0	15M	QPSK	1	0	Back	10mm	4	26865	831.5	24.67	25.50	1.211	0.01	0.348	0.421
	LTE Band 26_Ant 0	15M	QPSK	36	0	Back	10mm	4	26865	831.5	23.77	24.70	1.239	-0.03	0.294	0.364
48	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Side	10mm	4	26865	831.5	24.67	25.50	1.211	0	0.536	0.649
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Side	10mm	4	26865	831.5	23.77	24.70	1.239	0.14	0.437	0.541
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Side	10mm	4	26865	831.5	24.67	25.50	1.211	0.11	0.246	0.298
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Side	10mm	4	26865	831.5	23.77	24.70	1.239	-0.05	0.213	0.264
	LTE Band 26_Ant 0	15M	QPSK	1	0	Bottom Side	10mm	4	26865	831.5	24.67	25.50	1.211	-0.01	0.315	0.381
	LTE Band 26_Ant 0	15M	QPSK	36	0	Bottom Side	10mm	4	26865	831.5	23.77	24.70	1.239	0.14	0.276	0.342
	LTE ULCA_5B_Ant 0	10M	QPSK	1	0	Left Side	10mm	4	20574+20475	841.4	23.19	23.50	1.074	0.08	0.359	0.386
	LTE Band 26_Ant 1	15M	QPSK	1	0	Front	10mm	4	26865	831.5	21.81	22.70	1.227	0.08	0.213	0.261
	LTE Band 26_Ant 1	15M	QPSK	36	0	Front	10mm	4	26865	831.5	21.85	22.70	1.216	0.01	0.197	0.240
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	4	26865	831.5	21.81	22.70	1.227	0.03	0.314	0.385
	LTE Band 26_Ant 1	15M	QPSK	36	0	Back	10mm	4	26865	831.5	21.85	22.70	1.216	0.03	0.298	0.362
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Side	10mm	4	26865	831.5	21.81	22.70	1.227	-0.08	0.111	0.136
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Side	10mm	4	26865	831.5	21.85	22.70	1.216	-0.08	0.103	0.125
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Side	10mm	4	26865	831.5	21.81	22.70	1.227	0.1	0.096	0.118
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Side	10mm	4	26865	831.5	21.85	22.70	1.216	-0.18	0.085	0.103
	LTE Band 26_Ant 1	15M	QPSK	1	0	Top Side	10mm	4	26865	831.5	21.81	22.70	1.227	0.1	0.162	0.199
	LTE Band 26_Ant 1	15M	QPSK	36	0	Top Side	10mm	4	26865	831.5	21.85	22.70	1.216	0.12	0.152	0.185
	LTE ULCA_5B_Ant 1	10M	QPSK	1	0	Back	10mm	4	20574+20475	841.4	19.91	20.70	1.199	0.05	0.212	0.254
	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	4	27710	2310	20.30	21.50	1.318	-0.14	0.452	0.596
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	4	27710	2310	20.30	21.50	1.318	0.03	0.433	0.571
49	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	4	27710	2310	20.30	21.50	1.318	-0.13	0.530	0.699
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	4	27710	2310	20.30	21.50	1.318	-0.05	0.518	0.683
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Side	10mm	4	27710	2310	20.30	21.50	1.318	0.01	0.041	0.054
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Side	10mm	4	27710	2310	20.30	21.50	1.318	-0.02	0.040	0.053
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Side	10mm	4	27710	2310	20.30	21.50	1.318	-0.09	0.432	0.569
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Side	10mm	4	27710	2310	20.30	21.50	1.318	0.03	0.411	0.542
	LTE Band 30_Ant 2	10M	QPSK	1	0	Bottom Side	10mm	4	27710	2310	20.30	21.50	1.318	-0.15	0.506	0.667
	LTE Band 30_Ant 2	10M	QPSK	25	0	Bottom Side	10mm	4	27710	2310	20.30	21.50	1.318	0.04	0.498	0.656
	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	4	27710	2310	24.23	24.60	1.089	-0.13	0.450	0.490
	LTE Band 30_Ant 0	10M	QPSK	50	0	Front	10mm	4	27710	2310	21.64	22.70	1.276	0.03	0.288	0.368
	LTE Band 30_Ant 0	10M	QPSK	1	0	Back	10mm	4	27710	2310	24.23	24.60	1.089	-0.16	0.420	0.457
	LTE Band 30_Ant 0	10M	QPSK	50	0	Back	10mm	4	27710	2310	21.64	22.70	1.276	0.05	0.244	0.311
	LTE Band 30_Ant 0	10M	QPSK	1	0	Left Side	10mm	4	27710	2310	24.23	24.60	1.089	-0.1	0.541	0.589
	LTE Band 30_Ant 0	10M	QPSK	50	0	Left Side	10mm	4	27710	2310	21.64	22.70	1.276	-0.05	0.318	0.406
	LTE Band 30_Ant 0	10M	QPSK	1	0	Right Side	10mm	4	27710	2310	24.23	24.60	1.089	0.09	0.001	0.001
	LTE Band 30_Ant 0	10M	QPSK	50	0	Right Side	10mm	4	27710	2310	21.64	22.70	1.276	-0.01	0.001	0.001
	LTE Band 30_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	4	27710	2310	24.23	24.60	1.089	0.07	0.296	0.322
	LTE Band 30_Ant 0	10M	QPSK	50	0	Bottom Side	10mm	4	27710	2310	21.64	22.70	1.276	0.02	0.166	0.212



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	4	40185	2549.5	22.40	23.30	1.230	62.9	1.006	0.02	0.406	0.502
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	4	40185	2549.5	22.45	23.30	1.216	62.9	1.006	-0.08	0.390	0.477
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	4	40185	2549.5	22.40	23.30	1.230	62.9	1.006	0.02	0.499	0.618
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	4	39750	2506	22.26	23.30	1.271	62.9	1.006	0.16	0.477	0.610
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	4	40620	2593	22.22	23.30	1.282	62.9	1.006	0.13	0.462	0.596
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	4	41055	2636.5	22.31	23.30	1.256	62.9	1.006	-0.18	0.430	0.543
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	4	41490	2680	22.39	23.30	1.233	62.9	1.006	0.02	0.352	0.437
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	4	40185	2549.5	22.45	23.30	1.216	62.9	1.006	-0.04	0.522	0.639
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	4	39750	2506	22.28	23.30	1.265	62.9	1.006	-0.02	0.500	0.636
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	4	40620	2593	22.21	23.30	1.285	62.9	1.006	-0.03	0.456	0.590
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	4	41055	2636.5	22.34	23.30	1.247	62.9	1.006	-0.03	0.431	0.541
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	4	41490	2680	22.44	23.30	1.219	62.9	1.006	0.08	0.346	0.424
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Side	10mm	4	40185	2549.5	22.40	23.30	1.230	62.9	1.006	0.05	0.048	0.059
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Side	10mm	4	40185	2549.5	22.45	23.30	1.216	62.9	1.006	-0.11	0.045	0.055
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	40185	2549.5	22.40	23.30	1.230	62.9	1.006	-0.12	0.634	0.785
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	39750	2506	22.26	23.30	1.271	62.9	1.006	-0.16	0.618	0.790
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	40620	2593	22.22	23.30	1.282	62.9	1.006	-0.02	0.616	0.795
50	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	41055	2636.5	22.31	23.30	1.256	62.9	1.006	-0.13	0.651	0.823
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	41490	2680	22.39	23.30	1.233	62.9	1.006	-0.15	0.603	0.748
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	40185	2549.5	22.45	23.30	1.216	62.9	1.006	-0.15	0.591	0.723
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	39750	2506	22.28	23.30	1.265	62.9	1.006	-0.08	0.594	0.756
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	40620	2593	22.21	23.30	1.285	62.9	1.006	-0.17	0.593	0.767
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	41055	2636.5	22.34	23.30	1.247	62.9	1.006	-0.08	0.649	0.814
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	41490	2680	22.44	23.30	1.219	62.9	1.006	-0.04	0.620	0.760
	LTE Band 41_Ant 2	20M	QPSK	100	0	Right Side	10mm	4	40185	2549.5	22.42	23.30	1.225	62.9	1.006	-0.08	0.584	0.719
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	4	40185	2549.5	22.40	23.30	1.230	62.9	1.006	-0.02	0.489	0.605
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	4	39750	2506	22.26	23.30	1.271	62.9	1.006	-0.04	0.470	0.601
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	4	40620	2593	22.22	23.30	1.282	62.9	1.006	-0.08	0.425	0.548
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	4	41055	2636.5	22.31	23.30	1.256	62.9	1.006	-0.13	0.385	0.486
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	4	41490	2680	22.39	23.30	1.233	62.9	1.006	-0.13	0.311	0.386
	LTE Band 41_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	4	40185	2549.5	22.45	23.30	1.216	62.9	1.006	0.06	0.472	0.577
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	40185	2549.5	23.87	24.90	1.268	42.9	1.009	0.01	0.527	0.674
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	39750	2506	23.70	24.90	1.318	42.9	1.009	0.19	0.506	0.673
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	40620	2593	23.70	24.90	1.318	42.9	1.009	0.07	0.490	0.652
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	41055	2636.5	23.75	24.90	1.303	42.9	1.009	-0.18	0.561	0.738
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	41490	2680	23.86	24.90	1.271	42.9	1.009	0.03	0.475	0.609
	LTE ULCA_41C_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	41490+41292	2680	21.24	21.30	1.014	62.9	1.006	0.03	0.374	0.381
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	4	41055	2636.5	22.63	23.60	1.250	62.9	1.006	0.08	0.312	0.392
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	4	41055	2636.5	22.61	23.60	1.256	62.9	1.006	0.01	0.307	0.388
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	4	41055	2636.5	22.63	23.60	1.250	62.9	1.006	0.03	0.360	0.453
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	4	41055	2636.5	22.61	23.60	1.256	62.9	1.006	0.03	0.313	0.395
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Side	10mm	4	41055	2636.5	22.63	23.60	1.250	62.9	1.006	-0.08	0.315	0.396
	LTE Band 41_Ant 0	20M	QPSK	50	0	Left Side	10mm	4	41055	2636.5	22.61	23.60	1.256	62.9	1.006	0.10	0.330	0.417
	LTE Band 41_Ant 0	20M	QPSK	1	0	Right Side	10mm	4	41055	2636.5	22.63	23.60	1.250	62.9	1.006	-0.18	0.020	0.025
	LTE Band 41_Ant 0	20M	QPSK	50	0	Right Side	10mm	4	41055	2636.5	22.61	23.60	1.256	62.9	1.006	0.10	0.001	0.001
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	41055	2636.5	22.63	23.60	1.250	62.9	1.006	0.12	0.077	0.097
	LTE Band 41_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	4	41055	2636.5	22.61	23.60	1.256	62.9	1.006	0.08	0.079	0.100
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	4	41055	2636.5	24.58	25.20	1.153	42.9	1.009	-0.17	0.349	0.406
	LTE ULCA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	4	41490+41292	2680	20.44	21.60	1.306	62.9	1.006	-0.03	0.199	0.261



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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	4	55830	3609	21.55	23.00	1.396	62.9	1.006	0.12	0.347	0.487
	LTE Band 48_Ant 6	20M	QPSK	50	0	Front	10mm	4	55830	3609	21.49	23.00	1.416	62.9	1.006	-0.06	0.364	0.518
	LTE Band 48_Ant 6	20M	QPSK	1	0	Back	10mm	4	55830	3609	21.55	23.00	1.396	62.9	1.006	0.18	0.288	0.405
	LTE Band 48_Ant 6	20M	QPSK	50	0	Back	10mm	4	55830	3609	21.49	23.00	1.416	62.9	1.006	-0.1	0.292	0.416
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Side	10mm	4	55830	3609	21.55	23.00	1.396	62.9	1.006	0.14	0.520	0.730
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Side	10mm	4	55340	3560	21.41	23.00	1.442	62.9	1.006	-0.17	0.500	0.725
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Side	10mm	4	56150	3641	21.33	23.00	1.469	62.9	1.006	0.17	0.525	0.776
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Side	10mm	4	56640	3690	21.13	23.00	1.538	62.9	1.006	-0.05	0.178	0.275
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Side	10mm	4	55830	3609	21.49	23.00	1.416	62.9	1.006	0.01	0.539	0.768
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Side	10mm	4	55340	3560	21.38	23.00	1.452	62.9	1.006	0.1	0.515	0.752
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Side	10mm	4	56150	3641	21.26	23.00	1.493	62.9	1.006	-0.14	0.539	0.809
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Side	10mm	4	56640	3690	21.11	23.00	1.545	62.9	1.006	-0.17	0.191	0.297
	LTE Band 48_Ant 6	20M	QPSK	100	0	Left Side	10mm	4	55830	3609	21.42	23.00	1.439	62.9	1.006	0.04	0.558	0.808
	LTE Band 48_Ant 6	20M	QPSK	1	0	Right Side	10mm	4	55830	3609	21.55	23.00	1.396	62.9	1.006	-0.01	0.001	0.001
	LTE Band 48_Ant 6	20M	QPSK	50	0	Right Side	10mm	4	55830	3609	21.49	23.00	1.416	62.9	1.006	-0.08	0.001	0.001
	LTE Band 48_Ant 6	20M	QPSK	1	0	Bottom Side	10mm	4	55830	3609	21.55	23.00	1.396	62.9	1.006	0.05	0.077	0.108
	LTE Band 48_Ant 6	20M	QPSK	50	0	Bottom Side	10mm	4	55830	3609	21.49	23.00	1.416	62.9	1.006	0.06	0.093	0.132
	LTE Band 48_Ant 2	20M	QPSK	1	0	Front	10mm	4	56150	3641	20.74	22.10	1.368	62.9	1.006	0.08	0.263	0.362
	LTE Band 48_Ant 2	20M	QPSK	50	0	Front	10mm	4	56150	3641	20.70	22.10	1.380	62.9	1.006	-0.05	0.269	0.374
	LTE Band 48_Ant 2	20M	QPSK	1	0	Back	10mm	4	56150	3641	20.74	22.10	1.368	62.9	1.006	-0.1	0.285	0.392
	LTE Band 48_Ant 2	20M	QPSK	50	0	Back	10mm	4	56150	3641	20.70	22.10	1.380	62.9	1.006	-0.13	0.282	0.392
	LTE Band 48_Ant 2	20M	QPSK	1	0	Left Side	10mm	4	56150	3641	20.74	22.10	1.368	62.9	1.006	-0.04	0.001	0.001
	LTE Band 48_Ant 2	20M	QPSK	50	0	Left Side	10mm	4	56150	3641	20.70	22.10	1.380	62.9	1.006	-0.15	0.001	0.001
	LTE Band 48_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	56150	3641	20.74	22.10	1.368	62.9	1.006	0.04	0.585	0.805
	LTE Band 48_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	55340	3560	20.67	22.10	1.390	62.9	1.006	0.09	0.448	0.626
	LTE Band 48_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	55830	3609	20.66	22.10	1.393	62.9	1.006	-0.06	0.527	0.739
51	LTE Band 48_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	56640	3690	20.54	22.10	1.432	62.9	1.006	-0.01	0.562	0.810
	LTE Band 48_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	56150	3641	20.70	22.10	1.380	62.9	1.006	0.05	0.480	0.667
	LTE Band 48_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	55340	3560	20.64	22.10	1.400	62.9	1.006	0.09	0.435	0.612
	LTE Band 48_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	55830	3609	20.61	22.10	1.409	62.9	1.006	-0.06	0.440	0.624
	LTE Band 48_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	56640	3690	20.47	22.10	1.455	62.9	1.006	-0.01	0.531	0.777
	LTE Band 48_Ant 2	20M	QPSK	100	0	Right Side	10mm	4	56150	3641	20.50	22.10	1.445	62.9	1.006	-0.15	0.539	0.784
	LTE Band 48_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	4	56150	3641	20.74	22.10	1.368	62.9	1.006	0.04	0.130	0.179
	LTE Band 48_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	4	56150	3641	20.70	22.10	1.380	62.9	1.006	0.12	0.137	0.190

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	4	132322	1745	21.15	22.40	1.334	0.03	0.358	0.477
	LTE Band 66_Ant 2	20M	QPSK	50	0	Front	10mm	4	132322	1745	21.20	22.40	1.318	-0.18	0.377	0.497
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	4	132322	1745	21.15	22.40	1.334	0.08	0.409	0.545
	LTE Band 66_Ant 2	20M	QPSK	50	0	Back	10mm	4	132322	1745	21.20	22.40	1.318	-0.07	0.436	0.575
	LTE Band 66_Ant 2	20M	QPSK	1	0	Left Side	10mm	4	132322	1745	21.15	22.40	1.334	0.01	0.056	0.075
	LTE Band 66_Ant 2	20M	QPSK	50	0	Left Side	10mm	4	132322	1745	21.20	22.40	1.318	-0.12	0.055	0.073
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	132322	1745	21.15	22.40	1.334	0.06	0.397	0.529
	LTE Band 66_Ant 2	20M	QPSK	50	0	Right Side	10mm	4	132322	1745	21.20	22.40	1.318	-0.1	0.444	0.585
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	4	132322	1745	21.15	22.40	1.334	-0.12	0.243	0.324
	LTE Band 66_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	4	132322	1745	21.20	22.40	1.318	0.08	0.251	0.331
	LTE ULCA_66B_Ant 2	15M	QPSK	1	0	Right Side	10mm	4	132597+132504	1772.5	19.64	20.40	1.191	-0.03	0.303	0.361
	LTE ULCA_66C_Ant 2	20M	QPSK	1	0	Right Side	10mm	4	132572+132374	1770	19.52	20.40	1.225	0.14	0.274	0.336
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	4	132322	1745	23.17	23.40	1.054	-0.17	0.381	0.402
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	4	132322	1745	23.22	23.40	1.042	0.04	0.361	0.376



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	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	4	132322	1745	23.17	23.40	1.054	-0.02	0.430	0.453
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	4	132322	1745	23.22	23.40	1.042	-0.08	0.425	0.443
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Side	10mm	4	132322	1745	23.17	23.40	1.054	0.05	0.328	0.346
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Side	10mm	4	132322	1745	23.22	23.40	1.042	0.06	0.322	0.336
	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Side	10mm	4	132322	1745	23.17	23.40	1.054	-0.09	0.056	0.059
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Side	10mm	4	132322	1745	23.22	23.40	1.042	-0.08	0.051	0.053
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	132322	1745	23.17	23.40	1.054	0.13	0.415	0.438
	LTE Band 66_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	4	132322	1745	23.22	23.40	1.042	0.12	0.344	0.359
	LTE ULCA_66C_Ant 0	15M	QPSK	1	0	Back	10mm	4	132597+132504	1772.5	20.85	21.40	1.135	0.03	0.233	0.264
	LTE ULCA_66C_Ant 0	20M	QPSK	1	0	Back	10mm	4	132572+132374	1770	21.21	21.40	1.045	0.18	0.271	0.283
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	4	132322	1745	19.31	20.3	1.256	-0.17	0.254	0.319
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	4	132322	1745	19.28	20.3	1.265	-0.03	0.260	0.329
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	4	132322	1745	19.31	20.3	1.256	0.14	0.291	0.366
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	4	132322	1745	19.28	20.3	1.265	-0.07	0.339	0.429
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Side	10mm	4	132322	1745	19.31	20.3	1.256	-0.05	0.205	0.257
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Side	10mm	4	132322	1745	19.28	20.3	1.265	0.18	0.211	0.267
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Side	10mm	4	132322	1745	19.31	20.3	1.256	0.14	0.001	0.001
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Side	10mm	4	132322	1745	19.28	20.3	1.265	-0.17	0.001	0.001
	LTE Band 66_Ant 1	20M	QPSK	1	0	Top Side	10mm	4	132322	1745	19.31	20.3	1.256	0.17	0.251	0.315
	LTE Band 66_Ant 1	20M	QPSK	50	0	Top Side	10mm	4	132322	1745	19.28	20.3	1.265	-0.05	0.258	0.326
	LTE Band 66_Ant 5	20M	QPSK	1	0	Front	10mm	4	132322	1745	22.45	23.10	1.161	0.05	0.318	0.369
	LTE Band 66_Ant 5	20M	QPSK	50	0	Front	10mm	4	132322	1745	22.18	23.10	1.236	-0.08	0.320	0.396
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	4	132322	1745	22.45	23.10	1.161	0.11	0.346	0.402
	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	4	132322	1745	22.18	23.10	1.236	-0.07	0.351	0.434
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Side	10mm	4	132322	1745	22.45	23.10	1.161	0.01	0.001	0.001
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Side	10mm	4	132322	1745	22.18	23.10	1.236	0.01	0.001	0.001
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Side	10mm	4	132322	1745	22.45	23.10	1.161	0.15	0.550	0.639
52	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Side	10mm	4	132322	1745	22.18	23.10	1.236	0	0.555	0.686
	LTE Band 66_Ant 5	20M	QPSK	1	0	Top Side	10mm	4	132322	1745	22.45	23.10	1.161	-0.08	0.243	0.282
	LTE Band 66_Ant 5	20M	QPSK	50	0	Top Side	10mm	4	132322	1745	22.18	23.10	1.236	0.01	0.244	0.302
	LTE Band 71_Ant 0	20M	QPSK	1	0	Front	10mm	4	133297	680.5	24.77	25.70	1.239	-0.07	0.268	0.332
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	4	133297	680.5	23.82	24.70	1.225	0.01	0.205	0.251
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	4	133297	680.5	24.77	25.70	1.239	0.01	0.331	0.410
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	4	133297	680.5	23.82	24.70	1.225	0.03	0.275	0.337
53	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Side	10mm	4	133297	680.5	24.77	25.70	1.239	-0.02	0.397	0.492
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Side	10mm	4	133297	680.5	23.82	24.70	1.225	-0.08	0.325	0.398
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Side	10mm	4	133297	680.5	24.77	25.70	1.239	-0.08	0.196	0.243
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Side	10mm	4	133297	680.5	23.82	24.70	1.225	0.1	0.165	0.202
	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	4	133297	680.5	24.77	25.70	1.239	-0.18	0.130	0.161
	LTE Band 71_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	4	133297	680.5	23.82	24.70	1.225	0.1	0.102	0.125
	LTE Band 71_Ant 1	20M	QPSK	1	0	Front	10mm	4	133297	680.5	23.75	25.20	1.396	-0.09	0.138	0.193
	LTE Band 71_Ant 1	20M	QPSK	50	0	Front	10mm	4	133297	680.5	22.86	24.20	1.361	0.01	0.115	0.157
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	4	133297	680.5	23.75	25.20	1.396	-0.02	0.318	0.444
	LTE Band 71_Ant 1	20M	QPSK	50	0	Back	10mm	4	133297	680.5	22.86	24.20	1.361	0.03	0.265	0.361
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Side	10mm	4	133297	680.5	23.75	25.20	1.396	0.02	0.233	0.325
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Side	10mm	4	133297	680.5	22.86	24.20	1.361	-0.08	0.187	0.255
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Side	10mm	4	133297	680.5	23.75	25.20	1.396	0.1	0.133	0.186
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Side	10mm	4	133297	680.5	22.86	24.20	1.361	-0.18	0.109	0.148
	LTE Band 71_Ant 1	20M	QPSK	1	0	Top Side	10mm	4	133297	680.5	23.75	25.20	1.396	0.1	0.140	0.195
	LTE Band 71_Ant 1	20M	QPSK	50	0	Top Side	10mm	4	133297	680.5	22.86	24.20	1.361	0.12	0.126	0.172

**<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)
54	FR1 n7_Ant 2	50M	BPSK	1	1	Front	10mm	4	507000	2535	21.09	21.30	1.050	0.01	0.491	0.515
	FR1 n7_Ant 2	50M	BPSK	135	68	Front	10mm	4	507000	2535	20.82	21.30	1.117	0.08	0.455	0.508
	FR1 n7_Ant 2	50M	BPSK	1	1	Back	10mm	4	507000	2535	21.09	21.30	1.050	0.05	0.657	0.690
	FR1 n7_Ant 2	50M	BPSK	135	68	Back	10mm	4	507000	2535	20.82	21.30	1.117	0.01	0.615	0.687
	FR1 n7_Ant 2	50M	BPSK	1	1	Left Side	10mm	4	507000	2535	21.09	21.30	1.050	-0.08	0.041	0.043
	FR1 n7_Ant 2	50M	BPSK	135	68	Left Side	10mm	4	507000	2535	20.82	21.30	1.117	-0.08	0.037	0.041
	FR1 n7_Ant 2	50M	BPSK	1	1	Right Side	10mm	4	507000	2535	21.09	21.30	1.050	-0.01	0.709	0.744
	FR1 n7_Ant 2	50M	BPSK	135	68	Right Side	10mm	4	507000	2535	20.82	21.30	1.117	0.1	0.665	0.743
	FR1 n7_Ant 2	50M	BPSK	1	1	Bottom Side	10mm	4	507000	2535	21.09	21.30	1.050	-0.03	0.462	0.485
	FR1 n7_Ant 2	50M	BPSK	135	68	Bottom Side	10mm	4	507000	2535	20.82	21.30	1.117	0.1	0.424	0.474
	FR1 n7_Ant 0	50M	BPSK	1	1	Front	10mm	4	507000	2535	19.96	20.60	1.159	-0.08	0.389	0.451
	FR1 n7_Ant 0	50M	BPSK	135	68	Front	10mm	4	507000	2535	19.85	20.60	1.189	0.08	0.356	0.423
55	FR1 n12_Ant 0	15M	BPSK	1	1	Back	10mm	4	507000	2535	19.96	20.60	1.159	0.01	0.361	0.418
	FR1 n12_Ant 0	50M	BPSK	135	68	Back	10mm	4	507000	2535	19.85	20.60	1.189	0.03	0.344	0.409
	FR1 n7_Ant 0	50M	BPSK	1	1	Left Side	10mm	4	507000	2535	19.96	20.60	1.159	0	0.381	0.441
	FR1 n7_Ant 0	50M	BPSK	135	68	Left Side	10mm	4	507000	2535	19.85	20.60	1.189	-0.08	0.368	0.437
	FR1 n7_Ant 0	50M	BPSK	1	1	Right Side	10mm	4	507000	2535	19.96	20.60	1.159	-0.08	0.022	0.025
	FR1 n7_Ant 0	50M	BPSK	135	68	Right Side	10mm	4	507000	2535	19.85	20.60	1.189	0.1	0.022	0.026
	FR1 n7_Ant 0	50M	BPSK	1	1	Bottom Side	10mm	4	507000	2535	19.96	20.60	1.159	-0.18	0.093	0.108
	FR1 n7_Ant 0	50M	BPSK	135	68	Bottom Side	10mm	4	507000	2535	19.85	20.60	1.189	0.1	0.081	0.096
	FR1 n12_Ant 0	15M	BPSK	1	1	Front	10mm	4	141500	707.5	24.81	25.70	1.227	0.01	0.263	0.323
	FR1 n12_Ant 0	15M	BPSK	36	22	Front	10mm	4	141500	707.5	24.80	25.70	1.230	-0.08	0.244	0.300
	FR1 n12_Ant 0	15M	BPSK	1	1	Back	10mm	4	141500	707.5	24.81	25.70	1.227	0.02	0.276	0.339
	FR1 n12_Ant 0	15M	BPSK	36	22	Back	10mm	4	141500	707.5	24.80	25.70	1.230	-0.08	0.270	0.332
	FR1 n12_Ant 0	15M	BPSK	1	1	Left Side	10mm	4	141500	707.5	24.81	25.70	1.227	0.02	0.385	0.473
	FR1 n12_Ant 0	15M	BPSK	36	22	Left Side	10mm	4	141500	707.5	24.80	25.70	1.230	0.17	0.365	0.449
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Side	10mm	4	141500	707.5	24.81	25.70	1.227	-0.01	0.243	0.298
	FR1 n12_Ant 0	15M	BPSK	36	22	Right Side	10mm	4	141500	707.5	24.80	25.70	1.230	-0.04	0.212	0.261
	FR1 n12_Ant 0	15M	BPSK	1	1	Bottom Side	10mm	4	141500	707.5	24.81	25.70	1.227	-0.08	0.150	0.184
	FR1 n12_Ant 0	15M	BPSK	36	22	Bottom Side	10mm	4	141500	707.5	24.80	25.70	1.230	-0.13	0.143	0.176
	FR1 n12_Ant 1	15M	BPSK	1	1	Front	10mm	4	141500	707.5	24.02	25.20	1.312	-0.03	0.190	0.249
	FR1 n12_Ant 1	15M	BPSK	36	22	Front	10mm	4	141500	707.5	23.98	25.20	1.324	0.12	0.179	0.237
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	4	141500	707.5	24.02	25.20	1.312	-0.02	0.284	0.373
	FR1 n12_Ant 1	15M	BPSK	36	22	Back	10mm	4	141500	707.5	23.98	25.20	1.324	0.03	0.226	0.299
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Side	10mm	4	141500	707.5	24.02	25.20	1.312	-0.03	0.217	0.285
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Side	10mm	4	141500	707.5	23.98	25.20	1.324	0.18	0.174	0.230
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Side	10mm	4	141500	707.5	24.02	25.20	1.312	-0.13	0.166	0.218
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Side	10mm	4	141500	707.5	23.98	25.20	1.324	0.06	0.149	0.197
	FR1 n12_Ant 1	15M	BPSK	1	1	Top Side	10mm	4	141500	707.5	24.02	25.20	1.312	-0.03	0.161	0.211
	FR1 n12_Ant 1	15M	BPSK	36	22	Top Side	10mm	4	141500	707.5	23.98	25.20	1.324	-0.03	0.136	0.180



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 n14_Ant 0	10M	BPSK	1	1	Front	10mm	4	158600	793	24.90	25.30	1.096	0.08	0.372	0.408
	FR1 n14_Ant 0	10M	BPSK	25	14	Front	10mm	4	158600	793	24.88	25.30	1.102	0	0.398	0.438
	FR1 n14_Ant 0	10M	BPSK	1	1	Back	10mm	4	158600	793	24.90	25.30	1.096	0.01	0.338	0.371
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	10mm	4	158600	793	24.88	25.30	1.102	-0.01	0.415	0.457
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Side	10mm	4	158600	793	24.90	25.30	1.096	0.03	0.477	0.523
56	FR1 n14_Ant 0	10M	BPSK	25	14	Left Side	10mm	4	158600	793	24.88	25.30	1.102	0	0.564	0.621
	FR1 n14_Ant 0	10M	BPSK	1	1	Right Side	10mm	4	158600	793	24.90	25.30	1.096	0.01	0.307	0.337
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Side	10mm	4	158600	793	24.88	25.30	1.102	-0.08	0.285	0.314
	FR1 n14_Ant 0	10M	BPSK	1	1	Bottom Side	10mm	4	158600	793	24.90	25.30	1.096	-0.08	0.195	0.214
	FR1 n14_Ant 0	10M	BPSK	25	14	Bottom Side	10mm	4	158600	793	24.88	25.30	1.102	0.01	0.265	0.292
	FR1 n14_Ant 1	10M	BPSK	1	1	Front	10mm	4	158600	793	23.07	24.00	1.239	-0.17	0.237	0.294
	FR1 n14_Ant 1	10M	BPSK	25	14	Front	10mm	4	158600	793	22.96	24.00	1.271	-0.03	0.219	0.278
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	4	158600	793	23.07	24.00	1.239	-0.04	0.361	0.447
	FR1 n14_Ant 1	10M	BPSK	25	14	Back	10mm	4	158600	793	22.96	24.00	1.271	0.11	0.340	0.432
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Side	10mm	4	158600	793	23.07	24.00	1.239	-0.05	0.127	0.157
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Side	10mm	4	158600	793	22.96	24.00	1.271	0.18	0.119	0.151
	FR1 n14_Ant 1	10M	BPSK	1	1	Right Side	10mm	4	158600	793	23.07	24.00	1.239	0.14	0.104	0.129
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Side	10mm	4	158600	793	22.96	24.00	1.271	-0.17	0.1	0.127
	FR1 n14_Ant 1	10M	BPSK	1	1	Top Side	10mm	4	158600	793	23.07	24.00	1.239	0.17	0.174	0.216
	FR1 n14_Ant 1	10M	BPSK	25	14	Top Side	10mm	4	158600	793	22.96	24.00	1.271	-0.05	0.154	0.196
	FR1 n25_Ant 2	40M	BPSK	1	1	Front	10mm	4	376500	1882.5	21.95	22.10	1.035	0.08	0.618	0.640
	FR1 n25_Ant 2	40M	BPSK	108	54	Front	10mm	4	376500	1882.5	21.92	22.10	1.042	-0.01	0.624	0.650
	FR1 n25_Ant 2	40M	BPSK	1	1	Back	10mm	4	376500	1882.5	21.95	22.10	1.035	0.03	0.683	0.707
	FR1 n25_Ant 2	40M	BPSK	108	54	Back	10mm	4	376500	1882.5	21.92	22.10	1.042	-0.13	0.702	0.732
	FR1 n25_Ant 2	40M	BPSK	1	1	Left Side	10mm	4	376500	1882.5	21.95	22.10	1.035	-0.08	0.092	0.095
	FR1 n25_Ant 2	40M	BPSK	108	54	Left Side	10mm	4	376500	1882.5	21.92	22.10	1.042	0.1	0.079	0.082
	FR1 n25_Ant 2	40M	BPSK	1	1	Right Side	10mm	4	376500	1882.5	21.95	22.10	1.035	-0.18	0.725	0.750
57	FR1 n25_Ant 2	40M	BPSK	108	54	Right Side	10mm	4	376500	1882.5	21.92	22.10	1.042	-0.01	0.759	0.791
	FR1 n25_Ant 2	40M	BPSK	1	1	Bottom Side	10mm	4	376500	1882.5	21.95	22.10	1.035	0.12	0.344	0.356
	FR1 n25_Ant 2	40M	BPSK	108	54	Bottom Side	10mm	4	376500	1882.5	21.92	22.10	1.042	-0.08	0.379	0.395
	FR1 n25_Ant 0	40M	BPSK	1	1	Front	10mm	4	376500	1882.5	22.41	22.60	1.045	-0.07	0.289	0.302
	FR1 n25_Ant 0	40M	BPSK	108	54	Front	10mm	4	376500	1882.5	22.41	22.60	1.045	0.15	0.280	0.293
	FR1 n25_Ant 0	40M	BPSK	1	1	Back	10mm	4	376500	1882.5	22.41	22.60	1.045	0.03	0.438	0.458
	FR1 n25_Ant 0	40M	BPSK	108	54	Back	10mm	4	376500	1882.5	22.41	22.60	1.045	-0.08	0.421	0.440
	FR1 n25_Ant 0	40M	BPSK	1	1	Left Side	10mm	4	376500	1882.5	22.41	22.60	1.045	0	0.350	0.366
	FR1 n25_Ant 0	40M	BPSK	108	54	Left Side	10mm	4	376500	1882.5	22.41	22.60	1.045	0.15	0.310	0.324
	FR1 n25_Ant 0	40M	BPSK	1	1	Right Side	10mm	4	376500	1882.5	22.41	22.60	1.045	0.01	0.001	0.001
	FR1 n25_Ant 0	40M	BPSK	108	54	Right Side	10mm	4	376500	1882.5	22.41	22.60	1.045	0.01	0.001	0.001
	FR1 n25_Ant 0	40M	BPSK	1	1	Bottom Side	10mm	4	376500	1882.5	22.41	22.60	1.045	-0.02	0.588	0.614
	FR1 n25_Ant 0	40M	BPSK	108	54	Bottom Side	10mm	4	376500	1882.5	22.41	22.60	1.045	0.08	0.467	0.488



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	BPSK	1	1	Front	10mm	4	166300	831.5	25.12	25.70	1.143	0.08	0.347	0.397
	FR1 n26_Ant 0	20M	BPSK	50	28	Front	10mm	4	166300	831.5	25.03	25.70	1.167	-0.02	0.348	0.406
	FR1 n26_Ant 0	20M	BPSK	1	1	Back	10mm	4	166300	831.5	25.12	25.70	1.143	0.03	0.349	0.399
	FR1 n26_Ant 0	20M	BPSK	50	28	Back	10mm	4	166300	831.5	25.03	25.70	1.167	0.1	0.374	0.436
	FR1 n26_Ant 0	20M	BPSK	1	1	Left Side	10mm	4	166300	831.5	25.12	25.70	1.143	-0.08	0.537	0.614
58	FR1 n26_Ant 0	20M	BPSK	50	28	Left Side	10mm	4	166300	831.5	25.03	25.70	1.167	-0.03	0.554	0.646
	FR1 n26_Ant 0	20M	BPSK	1	1	Right Side	10mm	4	166300	831.5	25.12	25.70	1.143	0.1	0.251	0.287
	FR1 n26_Ant 0	20M	BPSK	50	28	Right Side	10mm	4	166300	831.5	25.03	25.70	1.167	-0.18	0.247	0.288
	FR1 n26_Ant 0	20M	BPSK	1	1	Bottom Side	10mm	4	166300	831.5	25.12	25.70	1.143	0.1	0.280	0.320
	FR1 n26_Ant 0	20M	BPSK	50	28	Bottom Side	10mm	4	166300	831.5	25.03	25.70	1.167	-0.02	0.296	0.345
	FR1 n26_Ant 1	20M	BPSK	1	1	Front	10mm	4	166300	831.5	22.02	23.10	1.282	0.01	0.189	0.242
	FR1 n26_Ant 1	20M	BPSK	50	28	Front	10mm	4	166300	831.5	21.99	23.10	1.291	0.1	0.181	0.234
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	10mm	4	166300	831.5	22.02	23.10	1.282	-0.04	0.317	0.406
	FR1 n26_Ant 1	20M	BPSK	50	28	Back	10mm	4	166300	831.5	21.99	23.10	1.291	0.04	0.311	0.402
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Side	10mm	4	166300	831.5	22.02	23.10	1.282	-0.01	0.089	0.114
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Side	10mm	4	166300	831.5	21.99	23.10	1.291	-0.08	0.076	0.098
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Side	10mm	4	166300	831.5	22.02	23.10	1.282	0.05	0.085	0.109
	FR1 n26_Ant 1	20M	BPSK	50	28	Right Side	10mm	4	166300	831.5	21.99	23.10	1.291	0.06	0.096	0.124
	FR1 n26_Ant 1	20M	BPSK	1	1	Top Side	10mm	4	166300	831.5	22.02	23.10	1.282	-0.09	0.137	0.176
	FR1 n26_Ant 1	20M	BPSK	50	28	Top Side	10mm	4	166300	831.5	21.99	23.10	1.291	-0.08	0.153	0.198
	FR1 n30_Ant 2	10M	BPSK	1	1	Front	10mm	4	462000	2310	20.26	21.00	1.186	-0.06	0.390	0.462
	FR1 n30_Ant 2	10M	BPSK	25	14	Front	10mm	4	462000	2310	20.25	21.00	1.189	-0.09	0.383	0.455
59	FR1 n30_Ant 2	10M	BPSK	1	1	Back	10mm	4	462000	2310	20.26	21.00	1.186	-0.13	0.538	0.638
	FR1 n30_Ant 2	10M	BPSK	25	14	Back	10mm	4	462000	2310	20.25	21.00	1.189	-0.02	0.484	0.575
	FR1 n30_Ant 2	10M	BPSK	1	1	Left Side	10mm	4	462000	2310	20.26	21.00	1.186	-0.13	0.043	0.051
	FR1 n30_Ant 2	10M	BPSK	25	14	Left Side	10mm	4	462000	2310	20.25	21.00	1.189	-0.13	0.034	0.040
	FR1 n30_Ant 2	10M	BPSK	1	1	Right Side	10mm	4	462000	2310	20.26	21.00	1.186	0	0.378	0.448
	FR1 n30_Ant 2	10M	BPSK	25	14	Right Side	10mm	4	462000	2310	20.25	21.00	1.189	-0.13	0.376	0.447
	FR1 n30_Ant 2	10M	BPSK	1	1	Bottom Side	10mm	4	462000	2310	20.26	21.00	1.186	-0.03	0.505	0.599
	FR1 n30_Ant 2	10M	BPSK	25	14	Bottom Side	10mm	4	462000	2310	20.25	21.00	1.189	-0.04	0.496	0.589
	FR1 n30_Ant 0	10M	BPSK	1	1	Front	10mm	4	462000	2310	22.91	24.00	1.285	0.14	0.295	0.379
	FR1 n30_Ant 0	10M	BPSK	25	14	Front	10mm	4	462000	2310	22.71	24.00	1.346	-0.14	0.313	0.421
	FR1 n30_Ant 0	10M	BPSK	1	1	Back	10mm	4	462000	2310	22.91	24.00	1.285	-0.05	0.262	0.337
	FR1 n30_Ant 0	10M	BPSK	25	14	Back	10mm	4	462000	2310	22.71	24.00	1.346	0.18	0.237	0.319
	FR1 n30_Ant 0	10M	BPSK	1	1	Left Side	10mm	4	462000	2310	22.91	24.00	1.285	0.14	0.318	0.409
	FR1 n30_Ant 0	10M	BPSK	25	14	Left Side	10mm	4	462000	2310	22.71	24.00	1.346	-0.09	0.334	0.450
	FR1 n30_Ant 0	10M	BPSK	1	1	Right Side	10mm	4	462000	2310	22.91	24.00	1.285	-0.05	0.012	0.015
	FR1 n30_Ant 0	10M	BPSK	25	14	Right Side	10mm	4	462000	2310	22.71	24.00	1.346	0.01	0.012	0.016
	FR1 n30_Ant 0	10M	BPSK	1	1	Bottom Side	10mm	4	462000	2310	22.91	24.00	1.285	0.1	0.141	0.181
	FR1 n30_Ant 0	10M	BPSK	25	14	Bottom Side	10mm	4	462000	2310	22.71	24.00	1.346	-0.17	0.128	0.172



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	BPSK	1	1	Front	10mm	4	518598	2592.99	20.22	21.60	1.374	-0.05	0.414	0.569
	FR1 n41_Ant 2	100M	BPSK	135	69	Front	10mm	4	518598	2592.99	19.92	21.60	1.472	0.01	0.352	0.518
	FR1 n41_Ant 2	100M	BPSK	1	1	Back	10mm	4	518598	2592.99	20.22	21.60	1.374	0.08	0.477	0.655
	FR1 n41_Ant 2	100M	BPSK	135	69	Back	10mm	4	518598	2592.99	19.92	21.60	1.472	0.09	0.411	0.605
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Side	10mm	4	518598	2592.99	20.22	21.60	1.374	0	0.001	0.001
	FR1 n41_Ant 2	100M	BPSK	135	69	Left Side	10mm	4	518598	2592.99	19.92	21.60	1.472	0.19	0.001	0.001
60	FR1 n41_Ant 2	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	20.22	21.60	1.374	0.02	0.613	0.842
	FR1 n41_Ant 2	100M	BPSK	135	69	Right Side	10mm	4	518598	2592.99	19.92	21.60	1.472	-0.17	0.549	0.808
	FR1 n41_Ant 2	100M	BPSK	270	0	Right Side	10mm	4	518598	2592.99	19.92	21.60	1.472	-0.05	0.550	0.810
	FR1 n41_Ant 2	100M	BPSK	1	1	Bottom Side	10mm	4	518598	2592.99	20.22	21.60	1.374	0	0.387	0.532
	FR1 n41_Ant 2	100M	BPSK	135	69	Bottom Side	10mm	4	518598	2592.99	19.92	21.60	1.472	-0.04	0.318	0.468
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	23.30	24.60	1.349	-0.15	0.611	0.824
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	20.22	21.60	1.374	-0.05	0.582	0.800
	FR1 n41_Ant 0	100M	BPSK	1	1	Front	10mm	4	518598	2592.99	21.13	21.90	1.194	0	0.349	0.417
	FR1 n41_Ant 0	100M	BPSK	135	69	Front	10mm	4	518598	2592.99	20.79	21.90	1.291	0.18	0.341	0.440
	FR1 n41_Ant 0	100M	BPSK	1	1	Back	10mm	4	518598	2592.99	21.13	21.90	1.194	0.08	0.373	0.445
	FR1 n41_Ant 0	100M	BPSK	135	69	Back	10mm	4	518598	2592.99	20.79	21.90	1.291	-0.17	0.342	0.442
	FR1 n41_Ant 0	100M	BPSK	1	1	Left Side	10mm	4	518598	2592.99	21.13	21.90	1.194	-0.06	0.393	0.469
	FR1 n41_Ant 0	100M	BPSK	135	69	Left Side	10mm	4	518598	2592.99	20.79	21.90	1.291	-0.05	0.346	0.447
	FR1 n41_Ant 0	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	21.13	21.90	1.194	0.01	0.001	0.001
	FR1 n41_Ant 0	100M	BPSK	135	69	Right Side	10mm	4	518598	2592.99	20.79	21.90	1.291	0.1	0.001	0.001
	FR1 n41_Ant 0	100M	BPSK	1	1	Bottom Side	10mm	4	518598	2592.99	21.13	21.90	1.194	-0.17	0.100	0.119
	FR1 n41_Ant 0	100M	BPSK	135	69	Bottom Side	10mm	4	518598	2592.99	20.79	21.90	1.291	0.04	0.090	0.116
	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Left Side	10mm	4	518598	2592.99	24.18	24.90	1.180	-0.01	0.366	0.432
	FR1 n41_Ant 1	100M	BPSK	1	1	Front	10mm	4	518598	2592.99	18.87	19.30	1.104	-0.03	0.309	0.341
	FR1 n41_Ant 1	100M	BPSK	135	69	Front	10mm	4	518598	2592.99	18.19	19.30	1.291	0.14	0.259	0.334
	FR1 n41_Ant 1	100M	BPSK	1	1	Back	10mm	4	518598	2592.99	18.87	19.30	1.104	-0.08	0.402	0.444
	FR1 n41_Ant 1	100M	BPSK	135	69	Back	10mm	4	518598	2592.99	18.19	19.30	1.291	-0.05	0.301	0.389
	FR1 n41_Ant 1	100M	BPSK	1	1	Left Side	10mm	4	518598	2592.99	18.87	19.30	1.104	0.18	0.232	0.256
	FR1 n41_Ant 1	100M	BPSK	135	69	Left Side	10mm	4	518598	2592.99	18.19	19.30	1.291	0.14	0.252	0.325
	FR1 n41_Ant 1	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	18.87	19.30	1.104	-0.17	0.000	0.000
	FR1 n41_Ant 1	100M	BPSK	135	69	Right Side	10mm	4	518598	2592.99	18.19	19.30	1.291	0.17	0.000	0.000
	FR1 n41_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	518598	2592.99	18.87	19.30	1.104	-0.05	0.280	0.309
	FR1 n41_Ant 1	100M	BPSK	135	69	Top Side	10mm	4	518598	2592.99	18.19	19.30	1.291	0.01	0.163	0.210
	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	4	518598	2592.99	21.79	22.30	1.125	0.1	0.359	0.404
	FR1 n41_Ant 5	100M	BPSK	1	1	Front	10mm	4	518598	2592.99	19.14	19.70	1.138	0.08	0.155	0.176
	FR1 n41_Ant 5	100M	BPSK	135	69	Front	10mm	4	518598	2592.99	18.59	19.70	1.291	0.01	0.155	0.200
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	4	518598	2592.99	19.14	19.70	1.138	0.03	0.279	0.317
	FR1 n41_Ant 5	100M	BPSK	135	69	Back	10mm	4	518598	2592.99	18.59	19.70	1.291	-0.03	0.281	0.363
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Side	10mm	4	518598	2592.99	19.14	19.70	1.138	-0.08	0.001	0.001
	FR1 n41_Ant 5	100M	BPSK	135	69	Left Side	10mm	4	518598	2592.99	18.59	19.70	1.291	0.1	0.001	0.001
	FR1 n41_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	518598	2592.99	19.14	19.70	1.138	-0.18	0.114	0.130
	FR1 n41_Ant 5	100M	BPSK	135	69	Right Side	10mm	4	518598	2592.99	18.59	19.70	1.291	0.1	0.071	0.092
	FR1 n41_Ant 5	100M	BPSK	1	1	Top Side	10mm	4	518598	2592.99	19.14	19.70	1.138	0.12	0.090	0.102
	FR1 n41_Ant 5	100M	BPSK	135	69	Top Side	10mm	4	518598	2592.99	18.59	19.70	1.291	0.08	0.071	0.092
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	4	518598	2592.99	22.02	22.70	1.169	-0.17	0.281	0.329



FCC SAR TEST REPORT

Report No. : FA451606B

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	0	Front	10mm	4	641666	3624.99	20.03	20.30	1.064	-0.11	0.400	0.426
	FR1 n48_Ant 6	40M	BPSK	50	25	Front	10mm	4	641666	3624.99	19.96	20.30	1.081	0.11	0.378	0.409
	FR1 n48_Ant 6	40M	BPSK	1	0	Back	10mm	4	641666	3624.99	20.03	20.30	1.064	-0.08	0.351	0.374
	FR1 n48_Ant 6	40M	BPSK	50	25	Back	10mm	4	641666	3624.99	19.96	20.30	1.081	-0.12	0.367	0.397
	FR1 n48_Ant 6	40M	BPSK	1	0	Left Side	10mm	4	641666	3624.99	20.03	20.30	1.064	-0.08	0.558	0.594
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Side	10mm	4	641666	3624.99	19.96	20.30	1.081	-0.13	0.560	0.606
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Side	10mm	4	638000	3570	13.43	14.00	1.140	-0.04	0.134	0.153
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Side	10mm	4	645332	3679.98	13.13	14.00	1.222	-0.08	0.136	0.166
	FR1 n48_Ant 6	20M	BPSK	25	12	Left Side	10mm	4	637334	3560.01	20.05	20.30	1.059	0.17	0.560	0.593
	FR1 n48_Ant 6	20M	BPSK	25	12	Left Side	10mm	4	646000	3690	19.79	20.30	1.125	0.18	0.224	0.252
	FR1 n48_Ant 6	40M	BPSK	1	0	Right Side	10mm	4	641666	3624.99	20.03	20.30	1.064	-0.04	0.044	0.047
	FR1 n48_Ant 6	40M	BPSK	50	25	Right Side	10mm	4	641666	3624.99	19.96	20.30	1.081	-0.08	0.038	0.041
	FR1 n48_Ant 6	40M	BPSK	1	0	Bottom Side	10mm	4	641666	3624.99	20.03	20.30	1.064	-0.13	0.056	0.060
	FR1 n48_Ant 6	40M	BPSK	50	25	Bottom Side	10mm	4	641666	3624.99	19.96	20.30	1.081	-0.13	0.062	0.067
	FR1 n48_Ant 2	40M	BPSK	1	1	Front	10mm	4	641666	3624.99	18.80	19.40	1.148	-0.18	0.334	0.383
	FR1 n48_Ant 2	40M	BPSK	50	25	Front	10mm	4	641666	3624.99	18.77	19.40	1.156	-0.03	0.330	0.382
	FR1 n48_Ant 2	40M	BPSK	1	1	Back	10mm	4	641666	3624.99	18.80	19.40	1.148	-0.15	0.298	0.342
	FR1 n48_Ant 2	40M	BPSK	50	25	Back	10mm	4	641666	3624.99	18.77	19.40	1.156	0.08	0.293	0.339
	FR1 n48_Ant 2	40M	BPSK	1	1	Left Side	10mm	4	641666	3624.99	18.80	19.40	1.148	-0.07	0.060	0.069
	FR1 n48_Ant 2	40M	BPSK	50	25	Left Side	10mm	4	641666	3624.99	18.77	19.40	1.156	0.05	0.066	0.076
	FR1 n48_Ant 2	40M	BPSK	1	1	Right Side	10mm	4	641666	3624.99	18.80	19.40	1.148	-0.11	0.620	0.712
	FR1 n48_Ant 2	40M	BPSK	1	1	Right Side	10mm	4	638000	3570	13.34	14.00	1.164	-0.12	0.196	0.228
	FR1 n48_Ant 2	40M	BPSK	1	1	Right Side	10mm	4	645332	3679.98	12.98	13.50	1.127	0.03	0.181	0.204
	FR1 n48_Ant 2	20M	BPSK	1	1	Right Side	10mm	4	637334	3560.01	18.77	19.40	1.156	-0.16	0.599	0.693
	FR1 n48_Ant 2	20M	BPSK	1	1	Right Side	10mm	4	646000	3690	18.75	19.40	1.161	-0.02	0.589	0.684
61	FR1 n48_Ant 2	40M	BPSK	50	25	Right Side	10mm	4	641666	3624.99	18.77	19.40	1.156	-0.03	0.619	0.716
	FR1 n48_Ant 2	40M	BPSK	50	25	Right Side	10mm	4	638000	3570	13.09	14.00	1.233	0.15	0.202	0.249
	FR1 n48_Ant 2	40M	BPSK	50	25	Right Side	10mm	4	645332	3679.98	12.80	13.50	1.175	-0.09	0.179	0.210
	FR1 n48_Ant 2	20M	BPSK	25	12	Right Side	10mm	4	637334	3560.01	18.70	19.40	1.175	0.11	0.576	0.677
	FR1 n48_Ant 2	20M	BPSK	25	12	Right Side	10mm	4	646000	3690	18.73	19.40	1.167	-0.05	0.590	0.688
	FR1 n48_Ant 2	40M	BPSK	1	1	Bottom Side	10mm	4	641666	3624.99	18.80	19.40	1.148	-0.08	0.123	0.141
	FR1 n48_Ant 2	40M	BPSK	50	25	Bottom Side	10mm	4	641666	3624.99	18.77	19.40	1.156	0.16	0.107	0.124
	FR1 n48_Ant 1	40M	BPSK	1	1	Front	10mm	4	641666	3624.99	19.40	20.20	1.202	-0.16	0.307	0.369
	FR1 n48_Ant 1	20M	BPSK	1	1	Front	10mm	4	641666	3624.99	20.00	21.20	1.318	-0.02	0.322	0.424
	FR1 n48_Ant 1	40M	BPSK	50	25	Front	10mm	4	641666	3624.99	19.91	21.20	1.346	0.01	0.340	0.458
	FR1 n48_Ant 1	40M	BPSK	1	1	Back	10mm	4	641666	3624.99	19.40	20.20	1.202	0.06	0.382	0.459
	FR1 n48_Ant 1	20M	BPSK	1	1	Back	10mm	4	641666	3624.99	20.00	21.20	1.318	0.15	0.341	0.450
	FR1 n48_Ant 1	40M	BPSK	50	25	Back	10mm	4	641666	3624.99	19.91	21.20	1.346	-0.09	0.332	0.447
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Side	10mm	4	641666	3624.99	19.40	20.20	1.202	0.11	0.080	0.096
	FR1 n48_Ant 1	20M	BPSK	1	1	Left Side	10mm	4	641666	3624.99	20.00	21.20	1.318	-0.05	0.079	0.104
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Side	10mm	4	641666	3624.99	19.91	21.20	1.346	-0.08	0.074	0.100
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Side	10mm	4	641666	3624.99	19.40	20.20	1.202	0.16	0.001	0.001
	FR1 n48_Ant 1	20M	BPSK	1	1	Right Side	10mm	4	641666	3624.99	20.00	21.20	1.318	0.05	0.001	0.001
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Side	10mm	4	641666	3624.99	19.91	21.20	1.346	0.05	0.001	0.001
	FR1 n48_Ant 1	40M	BPSK	1	1	Top Side	10mm	4	641666	3624.985	19.40	20.20	1.202	-0.14	0.470	0.565
	FR1 n48_Ant 1	20M	BPSK	1	1	Top Side	10mm	4	641666	3624.99	20.00	21.20	1.318	-0.03	0.412	0.543
	FR1 n48_Ant 1	40M	BPSK	50	25	Top Side	10mm	4	641666	3624.99	19.91	21.20	1.346	-0.15	0.405	0.545
	FR1 n48_Ant 5	40M	BPSK	1	0	Front	10mm	4	641666	3624.99	19.10	20.60	1.413	-0.01	0.382	0.540
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	4	641666	3624.99	19.72	20.60	1.225	0.01	0.397	0.486
	FR1 n48_Ant 5	40M	BPSK	1	0	Back	10mm	4	641666	3624.99	19.10	20.60	1.413	0.03	0.303	0.428
	FR1 n48_Ant 5	40M	BPSK	50	25	Back	10mm	4	641666	3624.99	19.72	20.60	1.225	-0.08	0.297	0.364
	FR1 n48_Ant 5	40M	BPSK	1	0	Left Side	10mm	4	641666	3624.99	19.10	20.60	1.413	-0.08	0.001	0.001
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Side	10mm	4	641666	3624.99	19.72	20.60	1.225	0.1	0.001	0.001
	FR1 n48_Ant 5	40M	BPSK	1	0	Right Side	10mm	4	641666	3624.99	19.10	20.60	1.413	-0.18	0.160	0.226
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Side	10mm	4	641666	3624.99	19.72	20.60	1.225	0.1	0.180	0.220
	FR1 n48_Ant 5	40M	BPSK	1	0	Top Side	10mm	4	641666	3624.99	19.10	20.60	1.413	0.12	0.054	0.076
	FR1 n48_Ant 5	40M	BPSK	50	25	Top Side	10mm	4	641666	3624.99	19.72	20.60	1.225	0.08	0.043	0.053





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	BPSK	1	1	Front	10mm	4	349000	1745	21.46	22.70	1.330	0.15	0.337	0.448
	FR1 n66_Ant 2	40M	BPSK	108	54	Front	10mm	4	349000	1745	21.41	22.70	1.346	-0.09	0.356	0.479
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	4	349000	1745	21.46	22.70	1.330	-0.04	0.392	0.522
	FR1 n66_Ant 2	40M	BPSK	108	54	Back	10mm	4	349000	1745	21.41	22.70	1.346	0	0.411	0.553
	FR1 n66_Ant 2	40M	BPSK	1	1	Left Side	10mm	4	349000	1745	21.46	22.70	1.330	0.11	0.045	0.060
	FR1 n66_Ant 2	40M	BPSK	108	54	Left Side	10mm	4	349000	1745	21.41	22.70	1.346	-0.08	0.053	0.071
	FR1 n66_Ant 2	40M	BPSK	1	1	Right Side	10mm	4	349000	1745	21.46	22.70	1.330	0.06	0.443	0.589
62	FR1 n66_Ant 2	40M	BPSK	108	54	Right Side	10mm	4	349000	1745	21.41	22.70	1.346	-0.03	0.473	0.637
	FR1 n66_Ant 2	40M	BPSK	1	1	Bottom Side	10mm	4	349000	1745	21.46	22.70	1.330	0.14	0.152	0.202
	FR1 n66_Ant 2	40M	BPSK	108	54	Bottom Side	10mm	4	349000	1745	21.41	22.70	1.346	-0.06	0.161	0.217
	FR1 n66_Ant 0	40M	BPSK	1	1	Front	10mm	4	349000	1745	21.68	22.70	1.265	0.04	0.210	0.266
	FR1 n66_Ant 0	40M	BPSK	108	54	Front	10mm	4	349000	1745	21.66	22.70	1.271	-0.01	0.194	0.246
	FR1 n66_Ant 0	40M	BPSK	1	1	Back	10mm	4	349000	1745	21.68	22.70	1.265	0.06	0.287	0.363
	FR1 n66_Ant 0	40M	BPSK	108	54	Back	10mm	4	349000	1745	21.66	22.70	1.271	0.05	0.251	0.319
	FR1 n66_Ant 0	40M	BPSK	1	1	Left Side	10mm	4	349000	1745	21.68	22.70	1.265	-0.09	0.180	0.228
	FR1 n66_Ant 0	40M	BPSK	108	54	Left Side	10mm	4	349000	1745	21.66	22.70	1.271	-0.08	0.177	0.225
	FR1 n66_Ant 0	40M	BPSK	1	1	Right Side	10mm	4	349000	1745	21.68	22.70	1.265	0.13	0.031	0.039
	FR1 n66_Ant 0	40M	BPSK	108	54	Right Side	10mm	4	349000	1745	21.66	22.70	1.271	0.12	0.027	0.034
	FR1 n66_Ant 0	40M	BPSK	1	1	Bottom Side	0mm	4	349000	1745	21.68	22.70	1.265	0.03	0.267	0.338
	FR1 n66_Ant 0	40M	BPSK	108	54	Bottom Side	10mm	4	349000	1745	21.66	22.70	1.271	0.18	0.260	0.330
	FR1 n70_Ant 2	15M	BPSK	1	1	Front	10mm	4	340500	1702.5	21.54	23.10	1.432	0.08	0.377	0.540
	FR1 n70_Ant 2	15M	BPSK	36	22	Front	10mm	4	340500	1702.5	21.53	23.10	1.435	-0.07	0.381	0.547
	FR1 n70_Ant 2	15M	BPSK	1	1	Back	10mm	4	340500	1702.5	21.54	23.10	1.432	-0.03	0.442	0.633
	FR1 n70_Ant 2	15M	BPSK	36	22	Back	10mm	4	340500	1702.5	21.53	23.10	1.435	0.01	0.424	0.609
	FR1 n70_Ant 2	15M	BPSK	1	1	Left Side	10mm	4	340500	1702.5	21.54	23.10	1.432	0.03	0.093	0.133
	FR1 n70_Ant 2	15M	BPSK	36	22	Left Side	10mm	4	340500	1702.5	21.53	23.10	1.435	-0.08	0.096	0.138
	FR1 n70_Ant 2	15M	BPSK	1	1	Right Side	10mm	4	340500	1702.5	21.54	23.10	1.432	-0.08	0.419	0.600
63	FR1 n70_Ant 2	15M	BPSK	36	22	Right Side	10mm	4	340500	1702.5	21.53	23.10	1.435	-0.02	0.490	0.703
	FR1 n70_Ant 2	15M	BPSK	1	1	Bottom Side	10mm	4	340500	1702.5	21.54	23.10	1.432	0.1	0.194	0.278
	FR1 n70_Ant 2	15M	BPSK	36	22	Bottom Side	10mm	4	340500	1702.5	21.53	23.10	1.435	-0.18	0.193	0.277
	FR1 n70_Ant 0	15M	BPSK	1	1	Front	10mm	4	340500	1702.5	20.59	21.40	1.205	0.08	0.342	0.412
	FR1 n70_Ant 0	15M	BPSK	36	22	Front	10mm	4	340500	1702.5	20.65	21.40	1.189	0.01	0.335	0.398
	FR1 n70_Ant 0	15M	BPSK	1	1	Back	10mm	4	340500	1702.5	20.59	21.40	1.205	0.03	0.379	0.457
	FR1 n70_Ant 0	15M	BPSK	36	22	Back	10mm	4	340500	1702.5	20.65	21.40	1.189	-0.08	0.361	0.429
	FR1 n70_Ant 0	15M	BPSK	1	1	Left Side	10mm	4	340500	1702.5	20.59	21.40	1.205	0.1	0.217	0.261
	FR1 n70_Ant 0	15M	BPSK	36	22	Left Side	10mm	4	340500	1702.5	20.65	21.40	1.189	-0.18	0.209	0.248
	FR1 n70_Ant 0	15M	BPSK	1	1	Right Side	10mm	4	340500	1702.5	20.59	21.40	1.205	0.1	0.034	0.041
	FR1 n70_Ant 0	15M	BPSK	36	22	Right Side	10mm	4	340500	1702.5	20.65	21.40	1.189	0.12	0.031	0.037
	FR1 n70_Ant 0	15M	BPSK	1	1	Bottom Side	10mm	4	340500	1702.5	20.59	21.40	1.205	-0.16	0.496	0.598
	FR1 n70_Ant 0	15M	BPSK	36	22	Bottom Side	10mm	4	340500	1702.5	20.65	21.40	1.189	-0.17	0.477	0.567



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	BPSK	1	1	Front	10mm	4	136100	680.5	24.78	25.70	1.236	0.02	0.280	0.346
	FR1 n71_Ant 0	20M	BPSK	50	28	Front	10mm	4	136100	680.5	24.73	25.70	1.250	-0.01	0.262	0.328
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	4	136100	680.5	24.78	25.70	1.236	-0.01	0.315	0.389
	FR1 n71_Ant 0	20M	BPSK	50	28	Back	10mm	4	136100	680.5	24.73	25.70	1.250	-0.08	0.309	0.386
64	FR1 n71_Ant 0	20M	BPSK	1	1	Left Side	10mm	4	136100	680.5	24.78	25.70	1.236	0.01	0.386	0.477
	FR1 n71_Ant 0	20M	BPSK	50	28	Left Side	10mm	4	136100	680.5	24.73	25.70	1.250	0.05	0.374	0.468
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Side	10mm	4	136100	680.5	24.78	25.70	1.236	0.06	0.197	0.243
	FR1 n71_Ant 0	20M	BPSK	50	28	Right Side	10mm	4	136100	680.5	24.73	25.70	1.250	-0.09	0.186	0.233
	FR1 n71_Ant 0	20M	BPSK	1	1	Bottom Side	10mm	4	136100	680.5	24.78	25.70	1.236	-0.08	0.111	0.137
	FR1 n71_Ant 0	20M	BPSK	50	28	Bottom Side	10mm	4	136100	680.5	24.73	25.70	1.250	0.13	0.093	0.116
	FR1 n71_Ant 1	20M	BPSK	1	1	Front	10mm	4	136100	680.5	24.27	25.20	1.239	0.12	0.217	0.269
	FR1 n71_Ant 1	20M	BPSK	50	28	Front	10mm	4	136100	680.5	24.17	25.20	1.268	-0.02	0.221	0.280
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	4	136100	680.5	24.27	25.20	1.239	0.03	0.296	0.367
	FR1 n71_Ant 1	20M	BPSK	50	28	Back	10mm	4	136100	680.5	24.17	25.20	1.268	0	0.310	0.393
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Side	10mm	4	136100	680.5	24.27	25.20	1.239	0.18	0.264	0.327
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Side	10mm	4	136100	680.5	24.17	25.20	1.268	0	0.269	0.341
	FR1 n71_Ant 1	20M	BPSK	1	1	Right Side	10mm	4	136100	680.5	24.27	25.20	1.239	0.16	0.127	0.157
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Side	10mm	4	136100	680.5	24.17	25.20	1.268	-0.1	0.128	0.162
	FR1 n71_Ant 1	20M	BPSK	1	1	Top Side	10mm	4	136100	680.5	24.27	25.20	1.239	0.07	0.171	0.212
	FR1 n71_Ant 1	20M	BPSK	50	28	Top Side	10mm	4	136100	680.5	24.17	25.20	1.268	0.18	0.149	0.189



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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	BPSK	1	1	Front	10mm	4	656000	3840	19.43	20.80	1.371	-0.03	0.267	0.366
	FR1 n77_Ant 6	100M	BPSK	135	69	Front	10mm	4	656000	3840	19.90	20.80	1.230	-0.07	0.310	0.381
	FR1 n77_Ant 6	100M	BPSK	1	1	Back	10mm	4	656000	3840	19.43	20.80	1.371	0.14	0.314	0.430
	FR1 n77_Ant 6	100M	BPSK	135	69	Back	10mm	4	656000	3840	19.90	20.80	1.230	-0.11	0.356	0.438
	FR1 n77_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	656000	3840	19.43	20.80	1.371	-0.05	0.416	0.570
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Side	10mm	4	656000	3840	19.90	20.80	1.230	-0.07	0.492	0.605
	FR1 n77_Ant 6	100M	BPSK	1	1	Right Side	10mm	4	656000	3840	19.43	20.80	1.371	0.14	0.001	0.001
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Side	10mm	4	656000	3840	19.90	20.80	1.230	-0.17	0.001	0.001
	FR1 n77_Ant 6	100M	BPSK	1	1	Bottom Side	10mm	4	656000	3840	19.43	20.80	1.371	0.17	0.178	0.244
	FR1 n77_Ant 6	100M	BPSK	135	69	Bottom Side	10mm	4	656000	3840	19.90	20.80	1.230	-0.05	0.169	0.208
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	656000	3840	22.47	23.90	1.390	0.1	0.434	0.603
	FR1 n77_Ant 6	100M	BPSK	1	1	Front	10mm	4	633332	3499.98	19.52	20.80	1.343	0.08	0.188	0.252
	FR1 n77_Ant 6	100M	BPSK	135	69	Front	10mm	4	633332	3499.98	19.91	20.80	1.227	-0.02	0.206	0.253
	FR1 n77_Ant 6	100M	BPSK	1	1	Back	10mm	4	633332	3499.98	19.52	20.80	1.343	0.01	0.312	0.419
	FR1 n77_Ant 6	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	19.91	20.80	1.227	-0.05	0.354	0.435
	FR1 n77_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	633332	3499.98	19.52	20.80	1.343	0.03	0.408	0.548
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Side	10mm	4	633332	3499.98	19.91	20.80	1.227	-0.08	0.493	0.605
	FR1 n77_Ant 6	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	19.52	20.80	1.343	-0.08	0.062	0.083
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Side	10mm	4	633332	3499.98	19.91	20.80	1.227	-0.08	0.072	0.088
	FR1 n77_Ant 6	100M	BPSK	1	1	Bottom Side	10mm	4	633332	3499.98	19.52	20.80	1.343	0.1	0.087	0.117
	FR1 n77_Ant 6	100M	BPSK	135	69	Bottom Side	10mm	4	633332	3499.98	19.91	20.80	1.227	-0.18	0.134	0.164
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Left Side	10mm	4	633332	3499.98	22.47	23.90	1.390	0.12	0.383	0.532
	FR1 n77_Ant 2	100M	BPSK	1	1	Front	10mm	4	656000	3840	17.99	19.50	1.416	-0.12	0.203	0.287
	FR1 n77_Ant 2	100M	BPSK	135	69	Front	10mm	4	656000	3840	18.46	19.50	1.271	0.03	0.218	0.277
	FR1 n77_Ant 2	100M	BPSK	1	1	Back	10mm	4	656000	3840	17.99	19.50	1.416	-0.09	0.227	0.321
	FR1 n77_Ant 2	100M	BPSK	135	69	Back	10mm	4	656000	3840	18.46	19.50	1.271	-0.08	0.248	0.315
	FR1 n77_Ant 2	100M	BPSK	1	1	Left Side	10mm	4	656000	3840	17.99	19.50	1.416	0.1	0.036	0.051
	FR1 n77_Ant 2	100M	BPSK	135	69	Left Side	10mm	4	656000	3840	18.46	19.50	1.271	-0.18	0.047	0.060
65	FR1 n77_Ant 2	100M	BPSK	1	1	Right Side	10mm	4	656000	3840	17.99	19.50	1.416	-0.04	0.573	0.811
	FR1 n77_Ant 2	100M	BPSK	135	69	Right Side	10mm	4	656000	3840	18.46	19.50	1.271	0.12	0.513	0.652
	FR1 n77_Ant 2	100M	BPSK	270	0	Right Side	10mm	4	656000	3840	18.50	19.50	1.259	0.07	0.502	0.632
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Side	10mm	4	656000	3840	17.99	19.50	1.416	0.08	0.107	0.151
	FR1 n77_Ant 2	100M	BPSK	135	69	Bottom Side	10mm	4	656000	3840	18.46	19.50	1.271	-0.17	0.111	0.141
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Right Side	10mm	4	656000	3840	21.00	22.50	1.413	0.14	0.518	0.732
	FR1 n77_Ant 2	100M	BPSK	1	1	Front	10mm	4	633332	3499.98	18.36	19.50	1.300	-0.03	0.128	0.166
	FR1 n77_Ant 2	100M	BPSK	135	69	Front	10mm	4	633332	3499.98	18.70	19.50	1.202	0.03	0.139	0.167
	FR1 n77_Ant 2	100M	BPSK	1	1	Back	10mm	4	633332	3499.98	18.36	19.50	1.300	0.19	0.154	0.200
	FR1 n77_Ant 2	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	18.70	19.50	1.202	0	0.172	0.207
	FR1 n77_Ant 2	100M	BPSK	1	1	Left Side	10mm	4	633332	3499.98	18.36	19.50	1.300	-0.06	0.020	0.026
	FR1 n77_Ant 2	100M	BPSK	135	69	Left Side	10mm	4	633332	3499.98	18.70	19.50	1.202	0.09	0.018	0.022
	FR1 n77_Ant 2	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	18.36	19.50	1.300	0.15	0.361	0.469
	FR1 n77_Ant 2	100M	BPSK	135	69	Right Side	10mm	4	633332	3499.98	18.70	19.50	1.202	-0.09	0.462	0.555
	FR1 n77_Ant 2	100M	BPSK	1	1	Bottom Side	10mm	4	633332	3499.98	18.36	19.50	1.300	0.07	0.077	0.100
	FR1 n77_Ant 2	100M	BPSK	135	69	Bottom Side	10mm	4	633332	3499.98	18.70	19.50	1.202	-0.06	0.089	0.107
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	21.30	22.50	1.318	0.09	0.344	0.453
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	4	656000	3840	18.98	19.6	1.153	-0.17	0.352	0.406
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	4	656000	3840	18.82	19.6	1.197	0.04	0.306	0.366
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	4	656000	3840	18.98	19.6	1.153	-0.01	0.387	0.446
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	4	656000	3840	18.82	19.6	1.197	-0.08	0.357	0.427
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Side	10mm	4	656000	3840	18.98	19.6	1.153	0.05	0.140	0.161
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Side	10mm	4	656000	3840	18.82	19.6	1.197	0.06	0.181	0.217
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Side	10mm	4	656000	3840	18.98	19.6	1.153	-0.09	0.001	0.001



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	FR1 n77_Ant 1	100M	BPSK	135	69	Right Side	10mm	4	656000	3840	18.82	19.6	1.197	-0.08	0.001	0.001
	FR1 n77_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	656000	3840	18.98	19.6	1.153	-0.04	0.501	0.578
	FR1 n77_Ant 1	100M	BPSK	135	69	Top Side	10mm	4	656000	3840	18.82	19.6	1.197	0.12	0.377	0.451
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	656000	3840	21.92	22.7	1.197	0.03	0.472	0.565
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	4	633332	3499.98	19.1	19.6	1.122	0.18	0.237	0.266
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	4	633332	3499.98	19.01	19.6	1.146	0.16	0.263	0.301
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	4	633332	3499.98	19.1	19.6	1.122	-0.1	0.278	0.312
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	19.01	19.6	1.146	0.07	0.240	0.275
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Side	10mm	4	633332	3499.98	19.1	19.6	1.122	0.18	0.062	0.070
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Side	10mm	4	633332	3499.98	19.01	19.6	1.146	-0.1	0.072	0.082
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	19.1	19.6	1.122	0.01	0.001	0.001
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Side	10mm	4	633332	3499.98	19.01	19.6	1.146	-0.15	0.001	0.001
	FR1 n77_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	633332	3499.98	19.1	19.6	1.122	0.02	0.412	0.462
	FR1 n77_Ant 1	100M	BPSK	135	69	Top Side	10mm	4	633332	3499.98	19.01	19.6	1.146	0.07	0.391	0.448
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Top Side	10mm	4	633332	3499.98	22.02	22.7	1.169	-0.18	0.383	0.448
	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	4	656000	3840	21.37	21.70	1.079	-0.18	0.492	0.531
	FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	4	656000	3840	21.38	21.70	1.076	0.08	0.403	0.434
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	4	656000	3840	21.37	21.70	1.079	-0.07	0.395	0.426
	FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	4	656000	3840	21.38	21.70	1.076	0.01	0.321	0.346
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Side	10mm	4	656000	3840	21.37	21.70	1.079	0.03	0.001	0.001
	FR1 n77_Ant 5	100M	BPSK	135	69	Left Side	10mm	4	656000	3840	21.38	21.70	1.076	-0.08	0.001	0.001
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	656000	3840	21.37	21.70	1.079	-0.19	0.286	0.309
	FR1 n77_Ant 5	100M	BPSK	135	69	Right Side	10mm	4	656000	3840	21.38	21.70	1.076	-0.08	0.226	0.243
	FR1 n77_Ant 5	100M	BPSK	1	1	Top Side	10mm	4	656000	3840	21.37	21.70	1.079	0.1	0.078	0.084
	FR1 n77_Ant 5	100M	BPSK	135	69	Top Side	10mm	4	656000	3840	21.38	21.70	1.076	-0.18	0.079	0.085
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Front	10mm	4	656000	3840	24.31	24.70	1.094	0.1	0.450	0.492
	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	4	633332	3499.98	21.60	21.70	1.023	0.08	0.358	0.366
	FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	4	633332	3499.98	21.59	21.70	1.026	0.04	0.422	0.433
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	4	633332	3499.98	21.60	21.70	1.023	-0.17	0.433	0.443
	FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	21.59	21.70	1.026	-0.04	0.434	0.445
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Side	10mm	4	633332	3499.98	21.60	21.70	1.023	0.14	0.071	0.073
	FR1 n77_Ant 5	100M	BPSK	135	69	Left Side	10mm	4	633332	3499.98	21.59	21.70	1.026	0.11	0.045	0.046
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Side	10mm	4	633332	3499.98	21.60	21.70	1.023	-0.05	0.271	0.277
	FR1 n77_Ant 5	100M	BPSK	135	69	Right Side	10mm	4	633332	3499.98	21.59	21.70	1.026	-0.04	0.288	0.295
	FR1 n77_Ant 5	100M	BPSK	1	1	Top Side	10mm	4	633332	3499.98	21.60	21.70	1.023	0.18	0.086	0.088
	FR1 n77_Ant 5	100M	BPSK	135	69	Top Side	10mm	4	633332	3499.98	21.59	21.70	1.026	0.14	0.094	0.096
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	4	633332	3499.98	24.48	24.70	1.052	-0.17	0.375	0.394

**<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	7	11	2462	14.80	15.00	1.047	99.08	1.009	-0.11	0.092	0.097
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	7	11	2462	14.80	15.00	1.047	99.08	1.009	-0.15	0.088	0.093
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 4	7	11	2462	14.80	15.00	1.047	99.08	1.009	0.02	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4	7	11	2462	14.80	15.00	1.047	99.08	1.009	-0.11	0.076	0.080
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	7	11	2462	14.80	15.00	1.047	99.08	1.009	-0.14	0.030	0.032
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	7	11	2462	14.80	15.00	1.047	99.08	1.009	-0.11	0.079	0.083
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	7/8	1	2412	14.92	15.00	1.019	99.08	1.009	-0.07	0.175	0.180
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	7/8	1	2412	14.92	15.00	1.019	99.08	1.009	0.04	0.196	0.201
66	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	7/8	1	2412	14.92	15.00	1.019	99.08	1.009	-0.07	0.300	0.308
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 3	7/8	1	2412	14.92	15.00	1.019	99.08	1.009	0.05	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 3	7/8	1	2412	14.92	15.00	1.019	99.08	1.009	-0.05	0.069	0.071
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 3	7/8	1	2412	14.92	15.00	1.019	99.08	1.009	0	0.235	0.242
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3 (4)	7	1	2412	14.60	15.00	1.096	93.19	1.073	-0.08	0.079	0.093
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3 (3)	7	1	2412	13.72	15.00	1.343	93.19	1.073	-0.08	0.115	0.166
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3 (4)	7	1	2412	14.60	15.00	1.096	93.19	1.073	-0.01	0.095	0.112
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3 (3)	7	1	2412	13.72	15.00	1.343	93.19	1.073	-0.01	0.134	0.193
	WLAN2.4GHz	802.11g 6Mbps	Left Side	10mm	Ant 4+3 (4)	7	1	2412	14.60	15.00	1.096	93.19	1.073	-0.05	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Side	10mm	Ant 4+3 (3)	7	1	2412	13.72	15.00	1.343	93.19	1.073	-0.05	0.205	0.295
	WLAN2.4GHz	802.11g 6Mbps	Right Side	10mm	Ant 4+3 (4)	7	1	2412	14.60	15.00	1.096	93.19	1.073	-0.09	0.052	0.061
	WLAN2.4GHz	802.11g 6Mbps	Right Side	10mm	Ant 4+3 (3)	7	1	2412	13.72	15.00	1.343	93.19	1.073	-0.09	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 4+3 (4)	7	1	2412	14.60	15.00	1.096	93.19	1.073	-0.02	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Top Side	10mm	Ant 4+3 (3)	7	1	2412	13.72	15.00	1.343	93.19	1.073	-0.02	0.067	0.097
	WLAN2.4GHz	802.11g 6Mbps	Left Side	10mm	Ant 4+3 (4)	7	1	2412	14.60	15.00	1.096	93.19	1.073	-0.05	0.001	0.001
	WLAN2.4GHz	802.11g 6Mbps	Left Side	10mm	Ant 4+3 (3)	7	1	2412	13.72	15.00	1.343	93.19	1.073	-0.05	0.169	0.243

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	802.11a 6Mbps	Front	10mm	Ant 4	8	44	5220	17.10	17.50	1.096	93.46	1.070	-0.13	0.245	0.287
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4	8	44	5220	17.10	17.50	1.096	93.46	1.070	-0.1	0.187	0.219
	WLAN5GHz	802.11a 6Mbps	Left Side	10mm	Ant 4	8	44	5220	17.10	17.50	1.096	93.46	1.070	0.18	0.005	0.006
	WLAN5GHz	802.11a 6Mbps	Right Side	10mm	Ant 4	8	44	5220	17.10	17.50	1.096	93.46	1.070	-0.13	0.055	0.065
67	WLAN5GHz	802.11a 6Mbps	Top Side	10mm	Ant 4	8	44	5220	17.10	17.50	1.096	93.46	1.070	-0.08	0.350	0.411
	WLAN5GHz	802.11a 6Mbps	Top Side	10mm	Ant 4	8	44	5220	17.10	17.50	1.096	93.46	1.070	-0.05	0.342	0.401
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4+3 (4)	7/8/9	44	5220	17.30	17.50	1.047	93.46	1.070	-0.02	0.175	0.196
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4+3 (3)	7/8/9	44	5220	17.23	17.50	1.064	93.46	1.070	-0.02	0.161	0.183
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (4)	7/8/9	44	5220	17.30	17.50	1.047	93.46	1.070	-0.09	0.209	0.234
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (3)	7/8/9	44	5220	17.23	17.50	1.064	93.46	1.070	-0.09	0.192	0.219
	WLAN5GHz	802.11a 6Mbps	Left Side	10mm	Ant 4+3 (4)	7/8/9	44	5220	17.30	17.50	1.047	93.46	1.070	-0.01	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Left Side	10mm	Ant 4+3 (3)	7/8/9	44	5220	17.23	17.50	1.064	93.46	1.070	-0.01	0.180	0.205
	WLAN5GHz	802.11a 6Mbps	Right Side	10mm	Ant 4+3 (4)	7/8/9	44	5220	17.30	17.50	1.047	93.46	1.070	0.14	0.075	0.084
	WLAN5GHz	802.11a 6Mbps	Right Side	10mm	Ant 4+3 (3)	7/8/9	44	5220	17.23	17.50	1.064	93.46	1.070	0.14	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Top Side	10mm	Ant 4+3 (4)	7/8/9	44	5220	17.30	17.50	1.047	93.46	1.070	0.04	0.327	0.366
	WLAN5GHz	802.11a 6Mbps	Top Side	10mm	Ant 4+3 (3)	7/8/9	44	5220	17.23	17.50	1.064	93.46	1.070	0.04	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Top Side	10mm	Ant 4+3 (4)	7/8/9	44	5220	17.30	17.50	1.047	93.46	1.070	-0.02	0.324	0.363
	WLAN5GHz	802.11a 6Mbps	Top Side	10mm	Ant 4+3 (3)	7/8/9	44	5220	17.23	17.50	1.064	93.46	1.070	-0.02	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+3 (4)	7	151	5755	18.00	18.00	1.000	92.7	1.079	-0.04	0.290	0.313
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+3 (3)	7	151	5755	16.53	18.00	1.403	92.7	1.079	-0.04	0.221	0.335
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3 (4)	7	151	5755	18.00	18.00	1.000	92.7	1.079	0.02	0.407	0.439
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3 (3)	7	151	5755	16.53	18.00	1.403	92.7	1.079	0.02	0.169	0.256
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 4+3 (4)	7	151	5755	18.00	18.00	1.000	92.7	1.079	0.07	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 4+3 (3)	7	151	5755	16.53	18.00	1.403	92.7	1.079	0.07	0.104	0.157
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 4+3 (4)	7	151	5755	18.00	18.00	1.000	92.7	1.079	0.01	0.107	0.115
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 4+3 (3)	7	151	5755	16.53	18.00	1.403	92.7	1.079	0.01	0.001	0.002
68	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4+3 (4)	7	151	5755	18.00	18.00	1.000	92.7	1.079	-0.14	0.457	0.493
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4+3 (3)	7	151	5755	16.53	18.00	1.403	92.7	1.079	-0.14	0.001	0.002
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4+3 (4)	7	151	5755	17.30	18.00	1.175	92.7	1.079	0.1	0.307	0.389
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4+3 (3)	7	151	5755	16.70	18.00	1.349	92.7	1.079	0.1	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4	8	151	5755	17.60	18.00	1.096	92.7	1.079	0.01	0.247	0.292
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4	8	151	5755	17.60	18.00	1.096	92.7	1.079	0	0.328	0.388
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 4	8	151	5755	17.60	18.00	1.096	92.7	1.079	0	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 4	8	151	5755	17.60	18.00	1.096	92.7	1.079	-0.06	0.089	0.105
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4	8	151	5755	17.60	18.00	1.096	92.7	1.079	-0.05	0.376	0.445
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4	8	151	5755	17.50	18.00	1.122	92.7	1.079	-0.14	0.260	0.315
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3 (4)	9	155	5775	15.40	15.50	1.023	89.9	1.112	0.08	0.172	0.196
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3 (3)	9	155	5775	14.73	15.50	1.194	89.9	1.112	0.08	0.141	0.187
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (4)	9	155	5775	15.40	15.50	1.023	89.9	1.112	0.07	0.228	0.259
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	155	5775	14.73	15.50	1.194	89.9	1.112	0.07	0.102	0.135
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 4+3 (4)	9	155	5775	15.40	15.50	1.023	89.9	1.112	0.05	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 4+3 (3)	9	155	5775	14.73	15.50	1.194	89.9	1.112	0.05	0.073	0.097
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 4+3 (4)	9	155	5775	15.40	15.50	1.023	89.9	1.112	-0.09	0.051	0.058
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 4+3 (3)	9	155	5775	14.73	15.50	1.194	89.9	1.112	-0.09	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+3 (4)	9	155	5775	15.40	15.50	1.023	89.9	1.112	-0.18	0.252	0.287
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+3 (3)	9	155	5775	14.73	15.50	1.194	89.9	1.112	-0.18	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+3 (4)	9	155	5775	15.40	15.50	1.023	89.9	1.112	-0.12	0.200	0.228
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+3 (3)	9	155	5775	14.73	15.50	1.194	89.9	1.112	-0.12	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)	Measured APD (W/m ²)	Reported APD (W/m ²)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3 (4)	7/9	71	6305	11.85	12.00	1.035	88.24	1.133	0.04	0.040	0.047	0.344	0.403
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3 (3)	7/9	71	6305	11.10	12.00	1.230	88.24	1.133	0.04	0.027	0.038	0.212	0.296
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (4)	7/9	71	6305	11.85	12.00	1.035	88.24	1.133	0.06	0.062	0.073	0.517	0.606
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (3)	7/9	71	6305	11.10	12.00	1.230	88.24	1.133	0.06	0.057	0.079	0.396	0.552
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (4)	7/9	7	5985	11.35	11.50	1.035	88.24	1.133	0.09	0.067	0.079	0.457	0.536
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (3)	7/9	7	5985	10.80	11.50	1.175	88.24	1.133	0.09	0.033	0.044	0.185	0.246
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (4)	7/9	167	6785	8.15	8.50	1.084	88.24	1.133	0.08	0.037	0.045	0.260	0.319
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (3)	7/9	167	6785	7.57	8.50	1.239	88.24	1.133	0.08	0.035	0.049	0.238	0.334
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	10mm	Ant 4+3 (4)	7/9	71	6305	11.85	12.00	1.035	88.24	1.133	0.08	0.001	0.001	0.000	0.000
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	10mm	Ant 4+3 (3)	7/9	71	6305	11.10	12.00	1.230	88.24	1.133	-0.01	0.040	0.056	0.325	0.453
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	10mm	Ant 4+3 (4)	7/9	71	6305	11.85	12.00	1.035	88.24	1.133	-0.08	0.033	0.039	0.283	0.332
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	10mm	Ant 4+3 (3)	7/9	71	6305	11.10	12.00	1.230	88.24	1.133	-0.08	0.001	0.001	0.000	0.000
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	10mm	Ant 4+3 (4)	7/9	71	6305	11.85	12.00	1.035	88.24	1.133	0.07	0.057	0.067	0.485	0.569
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	10mm	Ant 4+3 (3)	7/9	71	6305	11.10	12.00	1.230	88.24	1.133	0.07	0.001	0.001	0.000	0.000
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (4)	7/9	7	5985	11.35	11.50	1.035	88.24	1.133	0.06	0.050	0.059	0.295	0.346
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (3)	7/9	7	5985	10.80	11.50	1.175	88.24	1.133	0.06	0.030	0.040	0.137	0.182
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4	8	71	6305	11.95	12.00	1.012	88.24	1.133	-0.11	0.042	0.048	0.325	0.372
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4	8	71	6305	11.95	12.00	1.012	88.24	1.133	0.09	0.066	0.076	0.537	0.615
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	10mm	Ant 4	8	71	6305	11.95	12.00	1.012	88.24	1.133	0.12	0.003	0.003	0.022	0.025
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	10mm	Ant 4	8	71	6305	11.95	12.00	1.012	88.24	1.133	0.01	0.020	0.023	0.166	0.190
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	10mm	Ant 4	8	71	6305	11.95	12.00	1.012	88.24	1.133	0.1	0.067	0.077	0.512	0.587
69	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	10mm	Ant 4	8	7	5985	11.35	11.50	1.035	88.24	1.133	-0.11	0.121	0.142	0.977	1.146
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	10mm	Ant 4	8	167	6785	6.75	8.50	1.496	88.24	1.133	0.14	0.035	0.059	0.294	0.498
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	10mm	Ant 4	8	7	5985	11.35	11.50	1.035	88.24	1.133	-0.06	0.097	0.114	0.693	0.813

<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	4	0	2402	14.70	15.00	1.072	77.13	1.080	-0.06	0.047	0.054
	Bluetooth	1Mbps	Back	10mm	Ant 4	4	0	2402	14.70	15.00	1.072	77.13	1.080	-0.17	0.055	0.064
	Bluetooth	1Mbps	Left Side	10mm	Ant 4	4	0	2402	14.70	15.00	1.072	77.13	1.080	0	0.001	0.001
	Bluetooth	1Mbps	Right Side	10mm	Ant 4	4	0	2402	14.70	15.00	1.072	77.13	1.080	-0.05	0.033	0.038
	Bluetooth	1Mbps	Top Side	10mm	Ant 4	4	0	2402	14.70	15.00	1.072	77.13	1.080	-0.09	0.030	0.035
	Bluetooth	1Mbps	Back	10mm	Ant 4	4	0	2402	14.70	15.00	1.072	77.13	1.080	-0.11	0.051	0.059
	Bluetooth	1Mbps	Front	10mm	Ant 3	4	39	2441	14.92	15.00	1.019	77.13	1.080	-0.05	0.126	0.139
	Bluetooth	1Mbps	Back	10mm	Ant 3	4	39	2441	14.92	15.00	1.019	77.13	1.080	-0.03	0.150	0.165
70	Bluetooth	1Mbps	Left Side	10mm	Ant 3	4	39	2441	14.92	15.00	1.019	77.13	1.080	-0.09	0.207	0.228
	Bluetooth	1Mbps	Right Side	10mm	Ant 3	4	39	2441	14.92	15.00	1.019	77.13	1.080	0	0.001	0.001
	Bluetooth	1Mbps	Top Side	10mm	Ant 3	4	39	2441	14.92	15.00	1.019	77.13	1.080	-0.02	0.047	0.052
	Bluetooth	1Mbps	Left Side	10mm	Ant 3	4	39	2441	14.92	15.00	1.019	77.13	1.080	-0.16	0.202	0.222

14.3 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 (3 Tx slots)	Front	10mm	5	189	836.4	30.53	31.50	1.250	-0.02	0.458	0.573
	GSM850_Ant 0	GPRS (3 Tx slots)	Back	10mm	5	189	836.4	30.53	31.50	1.250	-0.01	0.471	0.589
	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	6	189	836.4	28.16	29.20	1.271	-0.02	0.338	0.429
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	6	189	836.4	28.16	29.20	1.271	-0.02	0.351	0.446
	GSM850_Ant 1	GPRS (2 Tx slots)	Front	10mm	5	189	836.4	31.16	32.30	1.300	-0.02	0.507	0.659
71	GSM850_Ant 1	GPRS (2 Tx slots)	Back	10mm	5	189	836.4	31.16	32.30	1.300	-0.03	0.695	0.904
	GSM850_Ant 1	GPRS (2 Tx slots)	Back	10mm	5	128	824.2	30.99	32.30	1.352	0.06	0.658	0.890
	GSM850_Ant 1	GPRS (2 Tx slots)	Back	10mm	5	251	848.8	30.72	32.30	1.439	0.02	0.618	0.889
	GSM850_Ant 1	GPRS (4 Tx slots)	Front	10mm	6	189	836.4	25.49	26.20	1.178	-0.02	0.263	0.310
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	6	189	836.4	25.49	26.20	1.178	0.11	0.363	0.427
	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	5/6	661	1880	24.24	25.80	1.432	-0.01	0.344	0.493
72	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	5/6	661	1880	24.24	25.80	1.432	-0.14	0.516	0.739
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	5	661	1880	26.01	27.30	1.346	-0.1	0.317	0.427
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	5	661	1880	26.01	27.30	1.346	-0.04	0.468	0.630
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	6	661	1880	24.75	25.50	1.189	-0.18	0.256	0.304
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	6	661	1880	24.75	25.50	1.189	-0.03	0.379	0.450

<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	5/6	9400	1880	21.40	22.10	1.175	0.07	0.483	0.567
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	5/6	9400	1880	21.40	22.10	1.175	-0.04	0.517	0.607
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	5	9400	1880	22.35	24.00	1.462	-0.01	0.284	0.415
73	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	5	9400	1880	22.35	24.00	1.462	-0.02	0.500	0.731
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	6	9400	1880	20.42	21.90	1.406	-0.11	0.165	0.232
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	6	9400	1880	20.42	21.90	1.406	-0.15	0.293	0.412
	WCDMA IV_Ant 2	RMC 12.2Kbps	Front	10mm	5/6	1413	1732.6	21.19	22.30	1.291	-0.11	0.397	0.513
74	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	5/6	1413	1732.6	21.19	22.30	1.291	-0.05	0.470	0.607
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	5	1413	1732.6	24.09	25.10	1.262	0	0.401	0.506
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	5	1413	1732.6	24.09	25.10	1.262	-0.02	0.464	0.585
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	6	1413	1732.6	22.65	23.60	1.245	-0.06	0.314	0.391
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	6	1413	1732.6	22.65	23.60	1.245	-0.11	0.362	0.451
	WCDMA V_Ant 0	RMC 12.2Kbps	Front	10mm	5	4182	836.4	24.77	25.70	1.239	-0.04	0.378	0.468
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	5	4182	836.4	24.77	25.70	1.239	-0.03	0.384	0.476
	WCDMA V_Ant 0	RMC 12.2Kbps	Front	10mm	6	4182	836.4	24.77	25.50	1.183	-0.04	0.378	0.447
	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	6	4182	836.4	24.77	25.50	1.183	-0.03	0.384	0.454
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	10mm	5	4182	836.4	24.19	25.20	1.262	0.08	0.419	0.529
75	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	5	4182	836.4	24.19	25.20	1.262	0.13	0.652	0.823
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	5	4132	826.4	24.17	25.20	1.268	0.01	0.546	0.692
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	5	4233	846.6	24.13	25.20	1.279	-0.05	0.624	0.798
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	10mm	6	4182	836.4	20.65	22.50	1.531	0.08	0.150	0.230
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	6	4182	836.4	20.65	22.50	1.531	0	0.232	0.355

**<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	5	18900	1880	19.91	21.5	1.442	-0.12	0.468	0.675
	LTE Band 2_Ant 1	20M	QPSK	50	0	Front	10mm	5	18900	1880	19.84	21.5	1.466	0.06	0.455	0.667
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	5	18900	1880	19.91	21.5	1.442	0	0.585	0.844
76	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	5	18700	1860	19.77	21.5	1.489	-0.1	0.570	0.849
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	5	19100	1900	19.71	21.5	1.510	0.04	0.485	0.732
	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	5	18900	1880	19.84	21.5	1.466	0.01	0.574	0.841
	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	5	18700	1860	19.74	21.5	1.500	-0.1	0.550	0.825
	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	5	19100	1900	19.75	21.5	1.496	0.03	0.471	0.705
	LTE Band 2_Ant 1	20M	QPSK	100	0	Back	10mm	5	18900	1880	19.73	21.5	1.503	-0.08	0.553	0.831
	LTE Band 2_Ant 1	20M	QPSK	1	0	Front	10mm	6	18900	1880	17.91	18.7	1.199	0.08	0.273	0.327
	LTE Band 2_Ant 1	20M	QPSK	50	0	Front	10mm	6	18900	1880	17.84	18.7	1.219	0.01	0.265	0.323
	LTE Band 2_Ant 1	20M	QPSK	1	0	Back	10mm	6	18900	1880	17.91	18.7	1.199	0.03	0.341	0.409
	LTE Band 2_Ant 1	20M	QPSK	50	0	Back	10mm	6	18900	1880	17.84	18.7	1.219	-0.08	0.335	0.408
	LTE Band 2_Ant 5	20M	QPSK	1	0	Front	10mm	5	18900	1880	21.39	22.70	1.352	0.12	0.416	0.562
	LTE Band 2_Ant 5	20M	QPSK	50	0	Front	10mm	5	18900	1880	21.41	22.70	1.346	-0.08	0.429	0.577
	LTE Band 2_Ant 5	20M	QPSK	1	0	Back	10mm	5	18900	1880	21.39	22.70	1.352	0.05	0.481	0.650
	LTE Band 2_Ant 5	20M	QPSK	50	0	Back	10mm	5	18900	1880	21.41	22.70	1.346	-0.05	0.494	0.665
	LTE Band 2_Ant 5	20M	QPSK	1	0	Front	10mm	6	18900	1880	20.61	21.00	1.094	0.06	0.236	0.258
	LTE Band 2_Ant 5	20M	QPSK	50	0	Front	10mm	6	18900	1880	20.32	21.00	1.169	-0.03	0.279	0.326
	LTE Band 2_Ant 5	20M	QPSK	1	0	Back	10mm	6	18900	1880	20.61	21.00	1.094	0.03	0.300	0.328
	LTE Band 2_Ant 5	20M	QPSK	50	0	Back	10mm	6	18900	1880	20.32	21.00	1.169	-0.07	0.348	0.407
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	5/6	21100	2535	19.82	21.60	1.507	-0.01	0.370	0.557
	LTE Band 7_Ant 2	20M	QPSK	50	0	Front	10mm	5/6	21100	2535	19.91	21.60	1.476	0.08	0.364	0.537
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	21100	2535	19.82	21.60	1.507	-0.05	0.462	0.696
	LTE Band 7_Ant 2	20M	QPSK	50	0	Back	10mm	5/6	21100	2535	19.91	21.60	1.476	-0.08	0.469	0.692
77	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	5	21100	2535	22.27	23.60	1.358	-0.03	0.649	0.882
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	5	20850	2510	22.17	23.60	1.390	0.03	0.628	0.873
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	5	21350	2560	22.13	23.60	1.403	0.03	0.623	0.874
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	5	21100	2535	22.23	23.60	1.371	0.03	0.606	0.831
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	5	20850	2510	22.17	23.60	1.390	-0.17	0.586	0.815
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	5	21350	2560	22.15	23.60	1.396	-0.03	0.582	0.813
	LTE Band 7_Ant 0	20M	QPSK	100	0	Front	10mm	5	21100	2535	22.19	23.60	1.384	0.03	0.576	0.797
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	5	21100	2535	22.27	23.60	1.358	-0.09	0.615	0.835
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	5	20850	2510	22.17	23.60	1.390	0.14	0.595	0.827
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	5	21350	2560	22.13	23.60	1.403	0.11	0.590	0.828
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	5	21100	2535	22.23	23.60	1.371	0.05	0.605	0.829
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	5	20850	2510	22.17	23.60	1.390	-0.05	0.590	0.820
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	5	21350	2560	22.15	23.60	1.396	0.18	0.586	0.818
	LTE Band 7_Ant 0	20M	QPSK	100	0	Back	10mm	5	21100	2535	22.19	23.60	1.384	0.14	0.577	0.798
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	6	21100	2535	20.19	21.00	1.205	0.08	0.337	0.406
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	6	21100	2535	20.20	21.00	1.202	0.01	0.319	0.384
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	6	21100	2535	20.19	21.00	1.205	-0.18	0.320	0.386
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	6	21100	2535	20.20	21.00	1.202	-0.08	0.320	0.385



FCC SAR TEST REPORT

Report No. : FA451606B

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	5/6	23095	707.5	24.66	25.70	1.271	0.01	0.261	0.332
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	5/6	23095	707.5	23.81	24.70	1.227	0.1	0.213	0.261
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	5/6	23095	707.5	24.66	25.70	1.271	0.01	0.289	0.367
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	5/6	23095	707.5	23.81	24.70	1.227	-0.17	0.224	0.275
	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	5	23095	707.5	23.72	25.20	1.406	0	0.227	0.319
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	10mm	5	23095	707.5	22.80	24.20	1.380	0.11	0.183	0.253
78	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	5	23095	707.5	23.72	25.20	1.406	0	0.325	0.457
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	10mm	5	23095	707.5	22.80	24.20	1.380	-0.05	0.257	0.355
	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	6	23095	707.5	23.72	25.10	1.374	0	0.227	0.312
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	10mm	6	23095	707.5	22.80	24.20	1.380	0.11	0.183	0.253
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	6	23095	707.5	23.72	25.10	1.374	0	0.325	0.447
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	10mm	6	23095	707.5	22.80	24.20	1.380	-0.05	0.257	0.355
	LTE Band 13_Ant 0	10M	QPSK	1	0	Front	10mm	5	23230	782	24.71	25.70	1.256	0.01	0.411	0.516
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	5	23230	782	23.83	24.70	1.222	0.01	0.332	0.406
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	5	23230	782	24.71	25.70	1.256	0.01	0.400	0.502
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	5	23230	782	23.83	24.70	1.222	0.07	0.325	0.397
	LTE Band 13_Ant 0	10M	QPSK	1	0	Front	10mm	6	23230	782	24.71	25.30	1.146	0.01	0.411	0.471
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	6	23230	782	23.83	24.70	1.222	0.01	0.332	0.406
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	6	23230	782	24.71	25.30	1.146	0.01	0.400	0.458
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	6	23230	782	23.83	24.70	1.222	0.07	0.325	0.397
	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	10mm	5	23230	782	24.48	25.70	1.324	-0.01	0.405	0.536
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	5	23230	782	23.62	24.70	1.282	0.08	0.350	0.449
79	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	5	23230	782	24.48	25.70	1.324	0	0.595	0.788
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	5	23230	782	23.62	24.70	1.282	0.01	0.486	0.623
	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	10mm	6	23230	782	22.40	23.20	1.202	0.08	0.217	0.261
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	6	23230	782	22.27	23.20	1.239	0.01	0.221	0.274
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	6	23230	782	22.40	23.20	1.202	0	0.320	0.385
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	6	23230	782	22.27	23.20	1.239	0.03	0.308	0.382
	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	5	23330	793	24.73	25.70	1.250	-0.04	0.416	0.520
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	5	23330	793	23.81	24.70	1.227	0.06	0.326	0.400
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	5	23330	793	24.73	25.70	1.250	0	0.373	0.466
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	5	23330	793	23.81	24.70	1.227	0.07	0.296	0.363
	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	6	23330	793	24.73	25.60	1.222	-0.04	0.416	0.508
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	6	23330	793	23.81	24.70	1.227	0.06	0.326	0.400
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	6	23330	793	24.73	25.60	1.222	0	0.373	0.456
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	6	23330	793	23.81	24.70	1.227	0.07	0.296	0.363
	LTE Band 14_Ant 1	10M	QPSK	1	0	Front	10mm	5	23330	793	24.40	25.70	1.349	-0.02	0.383	0.517
	LTE Band 14_Ant 1	10M	QPSK	25	0	Front	10mm	5	23330	793	23.49	24.70	1.321	0.17	0.325	0.429
80	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	5	23330	793	24.40	25.70	1.349	-0.01	0.562	0.758
	LTE Band 14_Ant 1	10M	QPSK	25	0	Back	10mm	5	23330	793	23.49	24.70	1.321	-0.15	0.461	0.609
	LTE Band 14_Ant 1	10M	QPSK	1	0	Front	10mm	6	23330	793	22.37	23.40	1.268	0.08	0.213	0.270
	LTE Band 14_Ant 1	10M	QPSK	25	0	Front	10mm	6	23330	793	22.42	23.40	1.253	-0.17	0.230	0.288
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	6	23330	793	22.37	23.40	1.268	-0.01	0.316	0.401
	LTE Band 14_Ant 1	10M	QPSK	25	0	Back	10mm	6	23330	793	22.42	23.40	1.253	-0.03	0.317	0.397



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)
81	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	5/6	26340	1880	20.61	22.20	1.442	0.06	0.384	0.554
	LTE Band 25_Ant 2	20M	QPSK	50	0	Front	10mm	5/6	26340	1880	20.58	22.20	1.452	-0.07	0.420	0.610
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	26340	1880	20.61	22.20	1.442	-0.04	0.497	0.717
	LTE Band 25_Ant 2	20M	QPSK	50	0	Back	10mm	5/6	26340	1880	20.58	22.20	1.452	-0.02	0.476	0.691
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	5	26340	1880	22.32	23.40	1.282	-0.07	0.343	0.440
	LTE Band 25_Ant 0	20M	QPSK	50	0	Front	10mm	5	26340	1880	22.30	23.40	1.288	-0.04	0.339	0.437
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	5	26340	1880	22.32	23.40	1.282	-0.03	0.487	0.624
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	5	26340	1880	22.30	23.40	1.288	0.13	0.483	0.622
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	6	26340	1880	21.94	22.70	1.191	0.14	0.269	0.320
	LTE Band 25_Ant 0	20M	QPSK	50	0	Front	10mm	6	26340	1880	21.85	22.70	1.216	0.11	0.262	0.319
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	6	26340	1880	21.94	22.70	1.191	-0.01	0.383	0.456
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	6	26340	1880	21.85	22.70	1.216	0.18	0.374	0.455
	LTE Band 26_Ant 0	15M	QPSK	1	0	Front	10mm	5/6	26865	831.5	24.67	25.70	1.268	-0.01	0.333	0.422
	LTE Band 26_Ant 0	15M	QPSK	36	0	Front	10mm	5/6	26865	831.5	23.77	24.70	1.239	-0.17	0.268	0.332
	LTE Band 26_Ant 0	15M	QPSK	1	0	Back	10mm	5/6	26865	831.5	24.67	25.70	1.268	0.01	0.348	0.441
	LTE Band 26_Ant 0	15M	QPSK	36	0	Back	10mm	5/6	26865	831.5	23.77	24.70	1.239	-0.03	0.294	0.364
	LTE ULCA_5B_Ant 0	10M	QPSK	1	0	Back	10mm	5/6	20574+20475	841.4	23.19	23.70	1.125	-0.17	0.267	0.300
	LTE Band 26_Ant 1	15M	QPSK	1	0	Front	10mm	5	26865	831.5	24.07	25.20	1.297	-0.03	0.412	0.534
	LTE Band 26_Ant 1	15M	QPSK	36	0	Front	10mm	5	26865	831.5	23.10	24.20	1.288	0.06	0.301	0.388
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	5	26865	831.5	24.07	25.20	1.297	-0.02	0.604	0.783
82	LTE Band 26_Ant 1	15M	QPSK	36	0	Back	10mm	5	26865	831.5	23.10	24.20	1.288	-0.09	0.474	0.611
	LTE ULCA_5B_Ant 1	10M	QPSK	1	0	Back	10mm	5	20574+20475	841.4	22.15	23.20	1.274	0.17	0.438	0.558
	LTE Band 26_Ant 1	15M	QPSK	1	0	Front	10mm	6	26865	831.5	21.81	22.70	1.227	0.08	0.213	0.261
	LTE Band 26_Ant 1	15M	QPSK	36	0	Front	10mm	6	26865	831.5	21.85	22.70	1.216	0.01	0.197	0.240
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	6	26865	831.5	21.81	22.70	1.227	0.03	0.314	0.385
	LTE Band 26_Ant 1	15M	QPSK	36	0	Back	10mm	6	26865	831.5	21.85	22.70	1.216	0.03	0.298	0.362
	LTE ULCA_5B_Ant 1	10M	QPSK	1	0	Back	10mm	6	20574+20475	841.4	19.91	20.70	1.199	0.05	0.212	0.254
	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	5/6	27710	2310	20.30	21.50	1.318	-0.14	0.452	0.596
83	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	5/6	27710	2310	20.30	21.50	1.318	0.03	0.433	0.571
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	5/6	27710	2310	20.30	21.50	1.318	-0.13	0.530	0.699
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	5/6	27710	2310	20.30	21.50	1.318	-0.05	0.518	0.683
	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	5	27710	2310	24.23	25.20	1.250	-0.13	0.450	0.563
	LTE Band 30_Ant 0	10M	QPSK	50	0	Front	10mm	5	27710	2310	21.64	22.70	1.276	0.03	0.288	0.368
	LTE Band 30_Ant 0	10M	QPSK	1	0	Back	10mm	5	27710	2310	24.23	25.20	1.250	-0.16	0.420	0.525
	LTE Band 30_Ant 0	10M	QPSK	50	0	Back	10mm	5	27710	2310	21.64	22.70	1.276	0.05	0.244	0.311
	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	6	27710	2310	24.23	24.60	1.089	-0.13	0.450	0.490
	LTE Band 30_Ant 0	10M	QPSK	50	0	Front	10mm	6	27710	2310	21.64	22.70	1.276	0.03	0.288	0.368
	LTE Band 30_Ant 0	10M	QPSK	1	0	Back	10mm	6	27710	2310	24.23	24.60	1.089	-0.16	0.420	0.457
	LTE Band 30_Ant 0	10M	QPSK	50	0	Back	10mm	6	27710	2310	21.64	22.70	1.276	0.05	0.244	0.311



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	5/6	40185	2549.5	22.40	23.70	1.349	62.9	1.006	0.02	0.406	0.551
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	5/6	40185	2549.5	22.45	23.70	1.334	62.9	1.006	-0.08	0.390	0.523
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	40185	2549.5	22.40	23.70	1.349	62.9	1.006	0.02	0.499	0.677
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	39750	2506	22.26	23.70	1.393	62.9	1.006	0.16	0.477	0.669
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	40620	2593	22.22	23.70	1.406	62.9	1.006	0.13	0.462	0.653
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	41055	2636.5	22.31	23.70	1.377	62.9	1.006	-0.18	0.430	0.596
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	41490	2680	22.39	23.70	1.352	62.9	1.006	0.02	0.352	0.479
84	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	5/6	40185	2549.5	22.45	23.70	1.334	62.9	1.006	-0.04	0.522	0.700
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	5/6	39750	2506	22.28	23.70	1.387	62.9	1.006	-0.02	0.500	0.698
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	5/6	40620	2593	22.21	23.70	1.409	62.9	1.006	-0.03	0.456	0.646
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	5/6	41055	2636.5	22.34	23.70	1.368	62.9	1.006	-0.03	0.431	0.593
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	5/6	41490	2680	22.44	23.70	1.337	62.9	1.006	0.08	0.346	0.465
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	40185	2549.5	23.87	25.30	1.390	42.9	1.009	0.18	0.464	0.651
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	39750	2506	23.70	25.30	1.445	42.9	1.009	0.01	0.441	0.643
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	40620	2593	23.70	25.30	1.445	42.9	1.009	0.03	0.427	0.623
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	41055	2636.5	23.75	25.30	1.429	42.9	1.009	-0.08	0.395	0.569
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	41490	2680	23.86	25.30	1.393	42.9	1.009	-0.08	0.317	0.446
	LTE ULCA_41C_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	41490+41292	2680	21.24	21.70	1.112	62.9	1.006	-0.05	0.227	0.254
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	5	40620	2593	24.56	25.20	1.159	62.9	1.006	-0.14	0.495	0.577
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	5	40620	2593	23.54	24.20	1.164	62.9	1.006	-0.1	0.403	0.472
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	40620	2593	24.56	25.20	1.159	62.9	1.006	0.07	0.520	0.606
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	39750	2506	24.48	25.20	1.180	62.9	1.006	-0.1	0.469	0.557
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	40185	2549.5	24.52	25.20	1.169	62.9	1.006	-0.15	0.562	0.661
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	41055	2636.5	24.52	25.20	1.169	62.9	1.006	0.01	0.459	0.540
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	41490	2680	24.55	25.20	1.161	62.9	1.006	-0.15	0.468	0.547
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	5	40620	2593	23.54	24.20	1.164	62.9	1.006	0.19	0.393	0.460
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	40620	2593	26.29	27.00	1.178	42.9	1.009	0.08	0.505	0.600
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	39750	2506	26.05	27.00	1.245	42.9	1.009	0.03	0.464	0.583
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	40185	2549.5	26.03	27.00	1.250	42.9	1.009	-0.08	0.516	0.651
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	41055	2636.5	26.28	27.00	1.180	42.9	1.009	-0.08	0.454	0.541
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	41490	2680	26.04	27.00	1.247	42.9	1.009	0.1	0.463	0.583
	LTE ULCA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	5	41490+41292	2680	22.51	23.20	1.172	62.9	1.006	0.1	0.389	0.459
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	6	41055	2636.5	22.63	23.60	1.250	62.9	1.006	0.08	0.275	0.346
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	6	41055	2636.5	22.61	23.60	1.256	62.9	1.006	0.01	0.271	0.342
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	6	41055	2636.5	22.63	23.60	1.250	62.9	1.006	0.03	0.293	0.369
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	6	41055	2636.5	22.61	23.60	1.256	62.9	1.006	-0.08	0.276	0.349
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	6	41055	2636.5	24.58	25.20	1.153	42.9	1.009	-0.17	0.301	0.350
	LTE ULCA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	6	41490+41292	2680	20.44	21.60	1.306	62.9	1.006	-0.03	0.199	0.261
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	5/6	55830	3609	21.55	23.00	1.396	62.9	1.006	0.12	0.347	0.487
85	LTE Band 48_Ant 6	20M	QPSK	50	0	Front	10mm	5/6	55830	3609	21.49	23.00	1.416	62.9	1.006	-0.06	0.364	0.518
	LTE Band 48_Ant 6	20M	QPSK	1	0	Back	10mm	5/6	55830	3609	21.55	23.00	1.396	62.9	1.006	0.18	0.288	0.405
	LTE Band 48_Ant 6	20M	QPSK	50	0	Back	10mm	5/6	55830	3609	21.49	23.00	1.416	62.9	1.006	-0.1	0.292	0.416
	LTE Band 48_Ant 2	20M	QPSK	1	0	Front	10mm	5/6	56150	3641	22.22	23.20	1.253	62.9	1.006	-0.06	0.342	0.431
	LTE Band 48_Ant 2	20M	QPSK	50	0	Front	10mm	5/6	56150	3641	21.71	23.20	1.409	62.9	1.006	0.01	0.303	0.430
	LTE Band 48_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	56150	3641	22.22	23.20	1.253	62.9	1.006	-0.07	0.376	0.474
	LTE Band 48_Ant 2	20M	QPSK	50	0	Back	10mm	5/6	56150	3641	21.71	23.20	1.409	62.9	1.006	-0.04	0.323	0.458



FCC SAR TEST REPORT

Report No. : FA451606B

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	5/6	132322	1745	21.15	22.40	1.334	0.03	0.358	0.477
	LTE Band 66_Ant 2	20M	QPSK	50	0	Front	10mm	5/6	132322	1745	21.20	22.40	1.318	-0.18	0.377	0.497
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	132322	1745	21.15	22.40	1.334	0.08	0.409	0.545
	LTE Band 66_Ant 2	20M	QPSK	50	0	Back	10mm	5/6	132322	1745	21.20	22.40	1.318	-0.07	0.436	0.575
	LTE ULCA_66B_Ant 2	15M	QPSK	1	0	Back	10mm	5/6	132597+132504	1772.5	19.64	20.40	1.191	0.04	0.277	0.330
	LTE ULCA_66C_Ant 2	20M	QPSK	1	0	Back	10mm	5/6	132572+132374	1770	19.52	20.40	1.225	-0.01	0.250	0.306
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	5	132322	1745	24.14	24.70	1.138	-0.05	0.463	0.527
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	5	132322	1745	23.11	24.20	1.285	0.08	0.342	0.440
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	5	132322	1745	24.14	24.70	1.138	-0.08	0.523	0.595
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	5	132322	1745	23.11	24.20	1.285	0.01	0.415	0.533
	LTE ULCA_66B_Ant 0	15M	QPSK	1	0	Back	10mm	5	132597+132504	1772.5	22.18	22.70	1.127	-0.08	0.287	0.324
	LTE ULCA_66C_Ant 0	20M	QPSK	1	0	Back	10mm	5	132572+132374	1770	22.70	22.70	1.000	0.05	0.315	0.315
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	6	132322	1745	23.17	23.40	1.054	-0.17	0.381	0.402
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	6	132322	1745	23.22	23.40	1.042	0.04	0.361	0.376
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	6	132322	1745	23.17	23.40	1.054	-0.02	0.430	0.453
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	6	132322	1745	23.22	23.40	1.042	-0.08	0.425	0.443
	LTE ULCA_66B_Ant 0	15M	QPSK	1	0	Back	10mm	6	132597+132504	1772.5	20.85	21.40	1.135	0.02	0.205	0.233
	LTE ULCA_66C_Ant 0	20M	QPSK	1	0	Back	10mm	6	132572+132374	1770	21.21	21.40	1.045	0.09	0.222	0.232
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	5	132322	1745	20.93	22.6	1.469	0.15	0.440	0.646
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	5	132322	1745	20.92	22.6	1.472	-0.04	0.452	0.665
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	5	132322	1745	20.93	22.6	1.469	-0.08	0.504	0.740
86	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	5	132322	1745	20.92	22.6	1.472	-0.12	0.508	0.748
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	6	132322	1745	19.31	20.3	1.256	-0.17	0.254	0.319
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	6	132322	1745	19.28	20.3	1.265	-0.03	0.260	0.329
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	6	132322	1745	19.31	20.3	1.256	0.14	0.291	0.366
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	6	132322	1745	19.28	20.3	1.265	-0.07	0.339	0.429
	LTE Band 66_Ant 5	20M	QPSK	1	0	Front	10mm	5/6	132322	1745	22.45	23.10	1.161	0.05	0.318	0.369
	LTE Band 66_Ant 5	20M	QPSK	50	0	Front	10mm	5/6	132322	1745	22.18	23.10	1.236	-0.08	0.320	0.396
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	5/6	132322	1745	22.45	23.10	1.161	0.11	0.346	0.402
	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	5/6	132322	1745	22.18	23.10	1.236	-0.07	0.351	0.434
	LTE Band 71_Ant 0	20M	QPSK	1	0	Front	10mm	5/6	133297	680.5	24.77	25.70	1.239	-0.07	0.268	0.332
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	5/6	133297	680.5	23.82	24.70	1.225	0.11	0.205	0.251
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	5/6	133297	680.5	24.77	25.70	1.239	0.01	0.331	0.410
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	5/6	133297	680.5	23.82	24.70	1.225	-0.08	0.275	0.337
	LTE Band 71_Ant 1	20M	QPSK	1	0	Front	10mm	5/6	133297	680.5	23.75	25.20	1.396	-0.09	0.138	0.193
	LTE Band 71_Ant 1	20M	QPSK	50	0	Front	10mm	5/6	133297	680.5	22.86	24.20	1.361	0.01	0.115	0.157
87	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	5/6	133297	680.5	23.75	25.20	1.396	-0.02	0.318	0.444
	LTE Band 71_Ant 1	20M	QPSK	50	0	Back	10mm	5/6	133297	680.5	22.86	24.20	1.361	-0.04	0.265	0.361



<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 n7_Ant 2	50M	BPSK	1	1	Front	10mm	5	507000	2535	21.09	22.00	1.233	0.01	0.491	0.605
	FR1 n7_Ant 2	50M	BPSK	135	68	Front	10mm	5	507000	2535	20.82	22.00	1.312	0.08	0.455	0.597
	FR1 n7_Ant 2	50M	BPSK	1	1	Back	10mm	5	507000	2535	21.09	22.00	1.233	0.05	0.657	0.810
	FR1 n7_Ant 2	50M	BPSK	135	68	Back	10mm	5	507000	2535	20.82	22.00	1.312	0.01	0.615	0.807
	FR1 n7_Ant 2	50M	BPSK	270	0	Back	10mm	5	507000	2535	20.79	22.00	1.321	0.05	0.589	0.778
	FR1 n7_Ant 2	50M	BPSK	1	1	Front	10mm	6	507000	2535	21.09	21.30	1.050	0.01	0.491	0.515
	FR1 n7_Ant 2	50M	BPSK	135	68	Front	10mm	6	507000	2535	20.82	21.30	1.117	0.08	0.455	0.508
	FR1 n7_Ant 2	50M	BPSK	1	1	Back	10mm	6	507000	2535	21.09	21.30	1.050	0.05	0.657	0.690
	FR1 n7_Ant 2	50M	BPSK	135	68	Back	10mm	6	507000	2535	20.82	21.30	1.117	0.01	0.615	0.687
88	FR1 n7_Ant 0	50M	BPSK	1	1	Front	10mm	5	507000	2535	22.18	23.60	1.387	0.01	0.710	0.985
	FR1 n7_Ant 0	50M	BPSK	135	68	Front	10mm	5	507000	2535	22.20	23.60	1.380	0.08	0.671	0.926
	FR1 n7_Ant 0	50M	BPSK	270	0	Front	10mm	5	507000	2535	22.25	23.60	1.365	0.01	0.630	0.860
	FR1 n7_Ant 0	50M	BPSK	1	1	Back	10mm	5	507000	2535	22.18	23.60	1.387	-0.03	0.661	0.917
	FR1 n7_Ant 0	50M	BPSK	135	68	Back	10mm	5	507000	2535	22.20	23.60	1.380	0.03	0.649	0.896
	FR1 n7_Ant 0	50M	BPSK	270	0	Back	10mm	5	507000	2535	22.25	23.60	1.365	-0.08	0.627	0.856
	FR1 n7_Ant 0	50M	BPSK	1	1	Front	10mm	6	507000	2535	19.96	20.60	1.159	-0.08	0.389	0.451
	FR1 n7_Ant 0	50M	BPSK	135	68	Front	10mm	6	507000	2535	19.85	20.60	1.189	0.08	0.356	0.423
	FR1 n7_Ant 0	50M	BPSK	1	1	Back	10mm	6	507000	2535	19.96	20.60	1.159	0.01	0.361	0.418
	FR1 n7_Ant 0	50M	BPSK	135	68	Back	10mm	6	507000	2535	19.85	20.60	1.189	0.03	0.344	0.409
	FR1 n12_Ant 0	15M	BPSK	1	1	Front	10mm	5/6	141500	707.5	24.81	25.70	1.227	0.01	0.263	0.323
	FR1 n12_Ant 0	15M	BPSK	36	22	Front	10mm	5/6	141500	707.5	24.80	25.70	1.230	-0.08	0.244	0.300
	FR1 n12_Ant 0	15M	BPSK	1	1	Back	10mm	5/6	141500	707.5	24.81	25.70	1.227	0.02	0.276	0.339
	FR1 n12_Ant 0	15M	BPSK	36	22	Back	10mm	5/6	141500	707.5	24.80	25.70	1.230	-0.08	0.270	0.332
	FR1 n12_Ant 1	15M	BPSK	1	1	Front	10mm	5/6	141500	707.5	24.02	25.20	1.312	-0.03	0.190	0.249
	FR1 n12_Ant 1	15M	BPSK	36	22	Front	10mm	5/6	141500	707.5	23.98	25.20	1.324	0.12	0.179	0.237
89	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	5/6	141500	707.5	24.02	25.20	1.312	-0.02	0.284	0.373
	FR1 n12_Ant 1	15M	BPSK	36	22	Back	10mm	5/6	141500	707.5	23.98	25.20	1.324	0.03	0.226	0.299
	FR1 n14_Ant 0	10M	BPSK	1	1	Front	10mm	5	158600	793	24.90	25.70	1.202	0.08	0.372	0.447
	FR1 n14_Ant 0	10M	BPSK	25	14	Front	10mm	5	158600	793	24.88	25.70	1.208	0	0.398	0.481
	FR1 n14_Ant 0	10M	BPSK	1	1	Back	10mm	5	158600	793	24.90	25.70	1.202	0.01	0.338	0.406
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	10mm	5	158600	793	24.88	25.70	1.208	-0.01	0.415	0.501
	FR1 n14_Ant 0	10M	BPSK	1	1	Front	10mm	6	158600	793	24.90	25.30	1.096	0.08	0.372	0.408
	FR1 n14_Ant 0	10M	BPSK	25	14	Front	10mm	6	158600	793	24.88	25.30	1.102	0	0.398	0.438
	FR1 n14_Ant 0	10M	BPSK	1	1	Back	10mm	6	158600	793	24.90	25.30	1.096	0.01	0.338	0.371
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	10mm	6	158600	793	24.88	25.30	1.102	-0.01	0.415	0.457
	FR1 n14_Ant 1	10M	BPSK	1	1	Front	10mm	5	158600	793	24.69	25.70	1.262	0	0.340	0.429
	FR1 n14_Ant 1	10M	BPSK	25	14	Front	10mm	5	158600	793	24.54	25.70	1.306	-0.18	0.305	0.398
90	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	5	158600	793	24.69	25.70	1.262	0.02	0.518	0.654
	FR1 n14_Ant 1	10M	BPSK	25	14	Back	10mm	5	158600	793	24.54	25.70	1.306	0.1	0.491	0.641
	FR1 n14_Ant 1	10M	BPSK	1	1	Front	10mm	6	158600	793	23.07	24.00	1.239	-0.17	0.237	0.294
	FR1 n14_Ant 1	10M	BPSK	25	14	Front	10mm	6	158600	793	22.96	24.00	1.271	-0.03	0.219	0.278
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	6	158600	793	23.07	24.00	1.239	-0.04	0.361	0.447
	FR1 n14_Ant 1	10M	BPSK	25	14	Back	10mm	6	158600	793	22.96	24.00	1.271	0.11	0.340	0.432



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)
91	FR1 n25_Ant 2	40M	BPSK	1	1	Front	10mm	5/6	376500	1882.5	21.95	22.10	1.035	0.08	0.618	0.640
	FR1 n25_Ant 2	40M	BPSK	108	54	Front	10mm	5/6	376500	1882.5	21.92	22.10	1.042	-0.01	0.624	0.650
	FR1 n25_Ant 2	40M	BPSK	1	1	Back	10mm	5/6	376500	1882.5	21.95	22.10	1.035	0.03	0.683	0.707
	FR1 n25_Ant 2	40M	BPSK	108	54	Back	10mm	5/6	376500	1882.5	21.92	22.10	1.042	-0.13	0.702	0.732
	FR1 n25_Ant 0	40M	BPSK	1	1	Front	10mm	5	376500	1882.5	22.41	24.00	1.442	-0.07	0.289	0.417
	FR1 n25_Ant 0	40M	BPSK	108	54	Front	10mm	5	376500	1882.5	22.41	24.00	1.442	0.15	0.280	0.404
	FR1 n25_Ant 0	40M	BPSK	1	1	Back	10mm	5	376500	1882.5	22.41	24.00	1.442	0.03	0.438	0.632
	FR1 n25_Ant 0	40M	BPSK	108	54	Back	10mm	5	376500	1882.5	22.41	24.00	1.442	-0.08	0.421	0.607
	FR1 n25_Ant 0	40M	BPSK	1	1	Front	10mm	6	376500	1882.5	22.41	22.60	1.045	-0.07	0.289	0.302
	FR1 n25_Ant 0	40M	BPSK	108	54	Front	10mm	6	376500	1882.5	22.41	22.60	1.045	0.15	0.280	0.293
	FR1 n25_Ant 0	40M	BPSK	1	1	Back	10mm	6	376500	1882.5	22.41	22.60	1.045	0.03	0.438	0.458
	FR1 n25_Ant 0	40M	BPSK	108	54	Back	10mm	6	376500	1882.5	22.41	22.60	1.045	-0.08	0.421	0.440
	FR1 n26_Ant 0	20M	BPSK	1	1	Front	10mm	5/6	166300	831.5	25.12	25.70	1.143	0.08	0.347	0.397
	FR1 n26_Ant 0	20M	BPSK	50	28	Front	10mm	5/6	166300	831.5	25.03	25.70	1.167	-0.02	0.348	0.406
	FR1 n26_Ant 0	20M	BPSK	1	1	Back	10mm	5/6	166300	831.5	25.12	25.70	1.143	0.03	0.349	0.399
	FR1 n26_Ant 0	20M	BPSK	50	28	Back	10mm	5/6	166300	831.5	25.03	25.70	1.167	0.1	0.374	0.436
	FR1 n26_Ant 1	20M	BPSK	1	1	Front	10mm	5	166300	831.5	24.65	25.20	1.135	-0.01	0.381	0.432
	FR1 n26_Ant 1	20M	BPSK	50	28	Front	10mm	5	166300	831.5	24.64	25.20	1.138	0.01	0.369	0.420
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	10mm	5	166300	831.5	24.65	25.20	1.135	-0.02	0.640	0.726
	FR1 n26_Ant 1	20M	BPSK	50	28	Back	10mm	5	166300	831.5	24.64	25.20	1.138	0.03	0.629	0.716
	FR1 n26_Ant 1	20M	BPSK	1	1	Front	10mm	6	166300	831.5	22.02	23.10	1.282	0.01	0.189	0.242
	FR1 n26_Ant 1	20M	BPSK	50	28	Front	10mm	6	166300	831.5	21.99	23.10	1.291	0.1	0.181	0.234
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	10mm	6	166300	831.5	22.02	23.10	1.282	-0.04	0.317	0.406
	FR1 n26_Ant 1	20M	BPSK	50	28	Back	10mm	6	166300	831.5	21.99	23.10	1.291	0.04	0.311	0.402
93	FR1 n30_Ant 2	10M	BPSK	1	1	Front	10mm	5	462000	2310	20.26	21.70	1.393	-0.06	0.390	0.543
	FR1 n30_Ant 2	10M	BPSK	25	14	Front	10mm	5	462000	2310	20.25	21.70	1.396	-0.09	0.383	0.535
	FR1 n30_Ant 2	10M	BPSK	1	1	Back	10mm	5	462000	2310	20.26	21.70	1.393	-0.13	0.538	0.750
	FR1 n30_Ant 2	10M	BPSK	25	14	Back	10mm	5	462000	2310	20.25	21.70	1.396	-0.02	0.484	0.676
	FR1 n30_Ant 2	10M	BPSK	1	1	Front	10mm	6	462000	2310	20.26	21.00	1.186	-0.06	0.390	0.462
	FR1 n30_Ant 2	10M	BPSK	25	14	Front	10mm	6	462000	2310	20.25	21.00	1.189	-0.09	0.383	0.455
	FR1 n30_Ant 2	10M	BPSK	1	1	Back	10mm	6	462000	2310	20.26	21.00	1.186	-0.13	0.538	0.638
	FR1 n30_Ant 2	10M	BPSK	25	14	Back	10mm	6	462000	2310	20.25	21.00	1.189	-0.02	0.484	0.575
	FR1 n30_Ant 0	10M	BPSK	1	1	Front	10mm	5	462000	2310	24.33	25.20	1.222	0.08	0.551	0.673
	FR1 n30_Ant 0	10M	BPSK	25	14	Front	10mm	5	462000	2310	24.19	25.20	1.262	-0.04	0.590	0.744
	FR1 n30_Ant 0	10M	BPSK	1	1	Back	10mm	5	462000	2310	24.33	25.20	1.222	-0.1	0.490	0.599
	FR1 n30_Ant 0	10M	BPSK	25	14	Back	10mm	5	462000	2310	24.19	25.20	1.262	-0.03	0.440	0.555
	FR1 n30_Ant 0	10M	BPSK	1	1	Front	10mm	6	462000	2310	22.91	24.00	1.285	0.14	0.295	0.379
	FR1 n30_Ant 0	10M	BPSK	25	14	Front	10mm	6	462000	2310	22.71	24.00	1.346	-0.14	0.313	0.421
	FR1 n30_Ant 0	10M	BPSK	1	1	Back	10mm	6	462000	2310	22.91	24.00	1.285	-0.05	0.262	0.337
	FR1 n30_Ant 0	10M	BPSK	25	14	Back	10mm	6	462000	2310	22.71	24.00	1.346	0.18	0.237	0.319



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	BPSK	1	1	Front	10mm	5/6	518598	2592.99	20.22	21.70	1.406	-0.05	0.414	0.582
	FR1 n41_Ant 2	100M	BPSK	135	69	Front	10mm	5/6	518598	2592.99	19.92	21.70	1.507	0.01	0.352	0.530
	FR1 n41_Ant 2	100M	BPSK	1	1	Back	10mm	5/6	518598	2592.99	20.22	21.70	1.406	0.08	0.477	0.671
	FR1 n41_Ant 2	100M	BPSK	135	69	Back	10mm	5/6	518598	2592.99	19.92	21.70	1.507	0.09	0.411	0.619
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Back	10mm	5/6	518598	2592.99	23.30	24.70	1.380	-0.15	0.477	0.658
	FR1 n41_Ant 0	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	22.70	24.40	1.479	0.08	0.550	0.814
	FR1 n41_Ant 0	100M	BPSK	135	69	Front	10mm	5	518598	2592.99	22.50	24.40	1.549	-0.14	0.571	0.884
	FR1 n41_Ant 0	100M	BPSK	270	0	Front	10mm	5	518598	2592.99	22.58	24.40	1.521	0.12	0.502	0.763
94	FR1 n41_Ant 0	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	22.70	24.40	1.479	0.1	0.599	0.886
	FR1 n41_Ant 0	100M	BPSK	135	69	Back	10mm	5	518598	2592.99	22.50	24.40	1.549	0.01	0.556	0.861
	FR1 n41_Ant 0	100M	BPSK	270	0	Back	10mm	5	518598	2592.99	22.58	24.40	1.521	0.08	0.547	0.832
	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	26.62	27.00	1.091	0.03	0.670	0.731
	FR1 n41_Ant 0	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	21.13	21.90	1.194	-0.05	0.349	0.417
	FR1 n41_Ant 0	100M	BPSK	135	69	Front	10mm	6	518598	2592.99	20.79	21.90	1.291	0.18	0.341	0.440
	FR1 n41_Ant 0	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	21.13	21.90	1.194	0.08	0.373	0.445
	FR1 n41_Ant 0	100M	BPSK	135	69	Back	10mm	6	518598	2592.99	20.79	21.90	1.291	-0.17	0.342	0.442
	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	24.18	24.90	1.180	0.05	0.255	0.301
	FR1 n41_Ant 1	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	21.05	22.4	1.365	0.02	0.448	0.611
	FR1 n41_Ant 1	100M	BPSK	135	69	Front	10mm	5	518598	2592.99	20.51	22.4	1.545	0.06	0.388	0.600
	FR1 n41_Ant 1	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	21.05	22.4	1.365	0.04	0.583	0.796
	FR1 n41_Ant 1	100M	BPSK	135	69	Back	10mm	5	518598	2592.99	20.51	22.4	1.545	-0.18	0.468	0.723
	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	23.99	25.4	1.384	-0.11	0.517	0.715
	FR1 n41_Ant 1	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	18.87	19.30	1.104	-0.03	0.309	0.341
	FR1 n41_Ant 1	100M	BPSK	135	69	Front	10mm	6	518598	2592.99	18.19	19.30	1.291	0.14	0.259	0.334
	FR1 n41_Ant 1	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	18.87	19.30	1.104	-0.08	0.402	0.444
	FR1 n41_Ant 1	100M	BPSK	135	69	Back	10mm	6	518598	2592.99	18.19	19.30	1.291	-0.05	0.301	0.389
	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	21.79	22.30	1.125	0.1	0.359	0.404
	FR1 n41_Ant 5	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	21.26	22.10	1.213	-0.19	0.314	0.381
	FR1 n41_Ant 5	100M	BPSK	135	69	Front	10mm	5	518598	2592.99	20.74	22.10	1.368	0.02	0.317	0.434
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	21.26	22.10	1.213	0.16	0.563	0.683
	FR1 n41_Ant 5	100M	BPSK	135	69	Back	10mm	5	518598	2592.99	20.74	22.10	1.368	0.16	0.572	0.782
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	24.19	25.10	1.233	-0.13	0.571	0.704
	FR1 n41_Ant 5	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	19.14	19.70	1.138	0.08	0.155	0.176
	FR1 n41_Ant 5	100M	BPSK	135	69	Front	10mm	6	518598	2592.99	18.59	19.70	1.291	0.01	0.155	0.200
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	19.14	19.70	1.138	0.03	0.279	0.317
	FR1 n41_Ant 5	100M	BPSK	135	69	Back	10mm	6	518598	2592.99	18.59	19.70	1.291	-0.03	0.281	0.363
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	22.02	22.70	1.169	-0.17	0.281	0.329



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	0	Front	10mm	5/6	641666	3624.99	20.03	20.30	1.064	-0.11	0.400	0.426
	FR1 n48_Ant 6	40M	BPSK	50	25	Front	10mm	5/6	641666	3624.99	19.96	20.30	1.081	0.11	0.378	0.409
	FR1 n48_Ant 6	40M	BPSK	1	0	Back	10mm	5/6	641666	3624.99	20.03	20.30	1.064	-0.08	0.351	0.374
	FR1 n48_Ant 6	40M	BPSK	50	25	Back	10mm	5/6	641666	3624.99	19.96	20.30	1.081	-0.12	0.367	0.397
	FR1 n48_Ant 2	40M	BPSK	1	0	Front	10mm	5/6	641666	3624.99	19.80	20.50	1.175	-0.12	0.386	0.454
	FR1 n48_Ant 2	20M	BPSK	1	0	Front	10mm	5/6	641666	3624.99	19.86	20.90	1.271	0.03	0.348	0.442
	FR1 n48_Ant 2	40M	BPSK	50	25	Front	10mm	5/6	641666	3624.99	19.88	20.90	1.265	0.18	0.351	0.444
	FR1 n48_Ant 2	40M	BPSK	1	0	Back	10mm	5/6	641666	3624.99	19.80	20.50	1.175	0.16	0.368	0.432
	FR1 n48_Ant 2	40M	BPSK	1	0	Back	10mm	5/6	641666	3624.985	19.86	20.90	1.271	-0.13	0.370	0.470
	FR1 n48_Ant 2	40M	BPSK	50	25	Back	10mm	5/6	641666	3624.99	19.88	20.90	1.265	-0.1	0.367	0.464
	FR1 n48_Ant 1	40M	BPSK	1	1	Front	10mm	5/6	641666	3624.99	19.40	20.20	1.202	-0.16	0.307	0.369
	FR1 n48_Ant 1	20M	BPSK	1	1	Front	10mm	5/6	641666	3624.99	20.00	21.20	1.318	-0.02	0.322	0.424
	FR1 n48_Ant 1	40M	BPSK	50	25	Front	10mm	5/6	641666	3624.99	19.91	21.20	1.346	0.01	0.340	0.458
	FR1 n48_Ant 1	40M	BPSK	1	1	Back	10mm	5/6	641666	3624.99	19.40	20.20	1.202	0.06	0.382	0.459
	FR1 n48_Ant 1	20M	BPSK	1	1	Back	10mm	5/6	641666	3624.99	20.00	21.20	1.318	0.15	0.341	0.450
	FR1 n48_Ant 1	40M	BPSK	50	25	Back	10mm	5/6	641666	3624.99	19.91	21.20	1.346	-0.09	0.332	0.447
	FR1 n48_Ant 5	40M	BPSK	1	0	Front	10mm	5	641666	3624.99	20.07	21.00	1.239	-0.18	0.507	0.628
	FR1 n48_Ant 5	40M	BPSK	1	1	Front	10mm	5	638000	3570	13.79	14.50	1.178	0.03	0.136	0.160
	FR1 n48_Ant 5	40M	BPSK	1	1	Front	10mm	5	645332	3679.98	13.50	14.50	1.259	-0.15	0.128	0.161
	FR1 n48_Ant 5	20M	BPSK	1	0	Front	10mm	5	641666	3624.99	21.57	22.60	1.268	-0.15	0.690	0.875
	FR1 n48_Ant 5	20M	BPSK	1	49	Front	10mm	5	637334	3560.01	21.27	22.60	1.358	0.11	0.567	0.770
95	FR1 n48_Ant 5	20M	BPSK	1	1	Front	10mm	5	646000	3689.995	21.34	22.60	1.337	-0.17	0.693	0.926
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	5	641666	3624.99	21.66	22.60	1.242	-0.08	0.660	0.819
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	5	638000	3570	13.58	14.50	1.236	-0.17	0.125	0.154
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	5	645332	3679.98	13.25	14.00	1.189	-0.08	0.108	0.128
	FR1 n48_Ant 5	20M	BPSK	25	12	Front	10mm	5	637334	3560.01	21.42	22.60	1.312	-0.04	0.556	0.730
	FR1 n48_Ant 5	20M	BPSK	25	12	Front	10mm	5	646000	3690	21.39	22.60	1.321	-0.08	0.683	0.902
	FR1 n48_Ant 5	40M	BPSK	100	0	Front	10mm	5	641666	3624.99	19.55	20.50	1.245	0.07	0.488	0.607
	FR1 n48_Ant 5	20M	BPSK	50	0	Front	10mm	5	641666	3624.99	21.44	22.60	1.306	0.03	0.612	0.799
	FR1 n48_Ant 5	40M	BPSK	1	0	Back	10mm	5	641666	3624.99	20.07	21.00	1.239	0.17	0.433	0.536
	FR1 n48_Ant 5	40M	BPSK	1	1	Back	10mm	5	638000	3570	13.79	14.50	1.178	0.18	0.113	0.133
	FR1 n48_Ant 5	40M	BPSK	1	1	Back	10mm	5	645332	3679.98	13.50	14.50	1.259	-0.04	0.107	0.135
	FR1 n48_Ant 5	20M	BPSK	1	0	Back	10mm	5	641666	3624.99	21.57	22.60	1.268	-0.08	0.572	0.725
	FR1 n48_Ant 5	20M	BPSK	1	49	Back	10mm	5	637334	3560.01	21.27	22.60	1.358	-0.13	0.493	0.670
	FR1 n48_Ant 5	20M	BPSK	1	1	Back	10mm	5	646000	3689.995	21.34	22.60	1.337	-0.17	0.545	0.728
	FR1 n48_Ant 5	40M	BPSK	50	25	Back	10mm	5	641666	3624.99	21.66	22.60	1.242	-0.13	0.492	0.611
	FR1 n48_Ant 5	40M	BPSK	1	0	Front	10mm	6	641666	3624.985	19.10	20.60	1.413	-0.01	0.382	0.540
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	6	641666	3624.99	19.72	20.60	1.225	0.01	0.397	0.486
	FR1 n48_Ant 5	40M	BPSK	1	0	Back	10mm	6	641666	3624.99	19.10	20.60	1.413	0.03	0.303	0.428
	FR1 n48_Ant 5	40M	BPSK	50	25	Back	10mm	6	641666	3624.99	19.72	20.60	1.225	-0.08	0.297	0.364



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	BPSK	1	1	Front	10mm	5/6	349000	1745	21.46	22.70	1.330	0.15	0.337	0.448
	FR1 n66_Ant 2	40M	BPSK	108	54	Front	10mm	5/6	349000	1745	21.41	22.70	1.346	-0.09	0.356	0.479
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	5/6	349000	1745	21.46	22.70	1.330	-0.04	0.392	0.522
	FR1 n66_Ant 2	40M	BPSK	108	54	Back	10mm	5/6	349000	1745	21.41	22.70	1.346	0	0.411	0.553
	FR1 n66_Ant 0	40M	BPSK	1	1	Front	10mm	5	349000	1745	24.35	25.00	1.161	-0.03	0.500	0.581
	FR1 n66_Ant 0	40M	BPSK	108	54	Front	10mm	5	349000	1745	24.29	25.00	1.178	-0.06	0.458	0.539
96	FR1 n66_Ant 0	40M	BPSK	1	1	Back	10mm	5	349000	1745	24.35	25.00	1.161	-0.16	0.660	0.767
	FR1 n66_Ant 0	40M	BPSK	108	54	Back	10mm	5	349000	1745	24.29	25.00	1.178	0.03	0.572	0.674
	FR1 n66_Ant 0	40M	BPSK	216	0	Back	10mm	5	349000	1745	23.83	24.70	1.222	0.05	0.470	0.574
	FR1 n66_Ant 0	40M	BPSK	1	1	Front	10mm	6	349000	1745	21.68	22.70	1.265	0.04	0.210	0.266
	FR1 n66_Ant 0	40M	BPSK	108	54	Front	10mm	6	349000	1745	21.66	22.70	1.271	-0.01	0.194	0.246
	FR1 n66_Ant 0	40M	BPSK	1	1	Back	10mm	6	349000	1745	21.68	22.70	1.265	0.06	0.287	0.363
	FR1 n66_Ant 0	40M	BPSK	108	54	Back	10mm	6	349000	1745	21.66	22.70	1.271	0.05	0.251	0.319
	FR1 n70_Ant 2	15M	BPSK	1	1	Front	10mm	5/6	340500	1702.5	21.54	23.10	1.432	0.08	0.377	0.540
	FR1 n70_Ant 2	15M	BPSK	36	22	Front	10mm	5/6	340500	1702.5	21.53	23.10	1.435	-0.07	0.381	0.547
	FR1 n70_Ant 2	15M	BPSK	1	1	Back	10mm	5/6	340500	1702.5	21.54	23.10	1.432	-0.03	0.442	0.633
	FR1 n70_Ant 2	15M	BPSK	36	22	Back	10mm	5/6	340500	1702.5	21.53	23.10	1.435	0.01	0.424	0.609
	FR1 n70_Ant 0	15M	BPSK	1	1	Front	10mm	5	340500	1702.5	22.66	24.50	1.528	-0.08	0.516	0.788
	FR1 n70_Ant 0	15M	BPSK	36	22	Front	10mm	5	340500	1702.5	22.79	24.50	1.483	0.15	0.513	0.761
97	FR1 n70_Ant 0	15M	BPSK	1	1	Back	10mm	5	340500	1702.5	22.66	24.50	1.528	-0.07	0.606	0.926
	FR1 n70_Ant 0	15M	BPSK	36	22	Back	10mm	5	340500	1702.5	22.79	24.50	1.483	0.11	0.613	0.909
	FR1 n70_Ant 0	15M	BPSK	75	0	Back	10mm	5	340500	1702.5	22.76	24.50	1.493	-0.08	0.614	0.917
	FR1 n70_Ant 0	15M	BPSK	1	1	Front	10mm	6	340500	1702.5	20.59	21.40	1.205	0.08	0.342	0.412
	FR1 n70_Ant 0	15M	BPSK	36	22	Front	10mm	6	340500	1702.5	20.65	21.40	1.189	0.01	0.335	0.398
	FR1 n70_Ant 0	15M	BPSK	1	1	Back	10mm	6	340500	1702.5	20.59	21.40	1.205	0.03	0.379	0.457
	FR1 n70_Ant 0	15M	BPSK	36	22	Back	10mm	6	340500	1702.5	20.65	21.40	1.189	-0.08	0.361	0.429
	FR1 n71_Ant 0	20M	BPSK	1	1	Front	10mm	5/6	136100	680.5	24.78	25.70	1.236	0.02	0.280	0.346
	FR1 n71_Ant 0	20M	BPSK	50	28	Front	10mm	5/6	136100	680.5	24.73	25.70	1.250	-0.01	0.262	0.328
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	5/6	136100	680.5	24.78	25.70	1.236	-0.01	0.315	0.389
	FR1 n71_Ant 0	20M	BPSK	50	28	Back	10mm	5/6	136100	680.5	24.73	25.70	1.250	-0.08	0.309	0.386
	FR1 n71_Ant 1	20M	BPSK	1	1	Front	10mm	5/6	136100	680.5	24.27	25.20	1.239	0.12	0.217	0.269
	FR1 n71_Ant 1	20M	BPSK	50	28	Front	10mm	5/6	136100	680.5	24.17	25.20	1.268	-0.02	0.221	0.280
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	5/6	136100	680.5	24.27	25.20	1.239	0.03	0.296	0.367
98	FR1 n71_Ant 1	20M	BPSK	50	28	Back	10mm	5/6	136100	680.5	24.17	25.20	1.268	0	0.310	0.393



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	BPSK	1	1	Front	10mm	5/6	656000	3840	19.43	20.80	1.371	-0.03	0.267	0.366
	FR1 n77_Ant 6	100M	BPSK	135	69	Front	10mm	5/6	656000	3840	19.90	20.80	1.230	-0.07	0.310	0.381
	FR1 n77_Ant 6	100M	BPSK	1	1	Back	10mm	5/6	656000	3840	19.43	20.80	1.371	0.14	0.314	0.430
	FR1 n77_Ant 6	100M	BPSK	135	69	Back	10mm	5/6	656000	3840	19.90	20.80	1.230	-0.11	0.356	0.438
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Back	10mm	5/6	656000	3840	22.47	23.90	1.390	0.01	0.307	0.427
	FR1 n77_Ant 6	100M	BPSK	1	1	Front	10mm	5/6	633332	3499.98	19.52	20.80	1.343	0.08	0.188	0.252
	FR1 n77_Ant 6	100M	BPSK	135	69	Front	10mm	5/6	633332	3499.98	19.91	20.80	1.227	-0.02	0.206	0.253
	FR1 n77_Ant 6	100M	BPSK	1	1	Back	10mm	5/6	633332	3499.98	19.52	20.80	1.343	0.01	0.312	0.419
	FR1 n77_Ant 6	100M	BPSK	135	69	Back	10mm	5/6	633332	3499.98	19.91	20.80	1.227	-0.05	0.354	0.435
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	1	Back	10mm	5/6	633332	3499.98	22.47	23.90	1.390	0.1	0.236	0.328
	FR1 n77_Ant 2	100M	BPSK	1	1	Front	10mm	5/6	656000	3840	20.13	21.00	1.222	-0.06	0.282	0.345
	FR1 n77_Ant 2	100M	BPSK	135	69	Front	10mm	5/6	656000	3840	20.51	21.00	1.119	-0.15	0.316	0.354
	FR1 n77_Ant 2	100M	BPSK	1	1	Back	10mm	5/6	656000	3840	20.13	21.00	1.222	0.01	0.398	0.486
	FR1 n77_Ant 2	100M	BPSK	135	69	Back	10mm	5/6	656000	3840	20.51	21.00	1.119	-0.06	0.462	0.517
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Back	10mm	5/6	656000	3840	22.17	24.00	1.524	-0.19	0.316	0.482
	FR1 n77_Ant 2	100M	BPSK	1	1	Front	10mm	5/6	633332	3499.98	20.33	21.00	1.167	-0.06	0.293	0.342
	FR1 n77_Ant 2	100M	BPSK	135	69	Front	10mm	5/6	633332	3499.98	20.69	21.00	1.074	-0.12	0.329	0.353
	FR1 n77_Ant 2	100M	BPSK	1	1	Back	10mm	5/6	633332	3499.98	20.33	21.00	1.167	-0.17	0.327	0.382
	FR1 n77_Ant 2	100M	BPSK	135	69	Back	10mm	5/6	633332	3499.98	20.69	21.00	1.074	-0.09	0.359	0.386
	FR1 n77_HPUE_Ant 2	100M	BPSK	1	1	Back	10mm	5/6	633332	3499.98	22.28	24.00	1.486	-0.16	0.255	0.379
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	5	656000	3840	20.12	21.6	1.406	0.07	0.434	0.610
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	5	656000	3840	19.81	21.6	1.510	0.08	0.367	0.554
99	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	5	656000	3840	20.12	21.6	1.406	-0.05	0.500	0.703
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	5	656000	3840	19.81	21.6	1.510	0.01	0.266	0.402
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	5	656000	3840	23.18	24.7	1.419	0.12	0.460	0.653
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	20.17	21.6	1.390	-0.03	0.347	0.482
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	5	633332	3499.98	20.03	21.6	1.435	-0.02	0.391	0.561
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	5	633332	3499.98	20.17	21.6	1.390	-0.01	0.391	0.543
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	5	633332	3499.98	20.03	21.6	1.435	0.14	0.347	0.498
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	23.14	24.7	1.432	0.17	0.335	0.480
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	6	656000	3840	18.98	19.6	1.153	-0.17	0.352	0.406
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	6	656000	3840	18.82	19.6	1.197	0.04	0.306	0.366
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	6	656000	3840	18.98	19.6	1.153	-0.01	0.387	0.446
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	6	656000	3840	18.82	19.6	1.197	-0.08	0.357	0.427
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	6	656000	3840	21.92	22.7	1.197	0.01	0.315	0.377
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	19.1	19.6	1.122	0.18	0.237	0.266
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	6	633332	3499.98	19.01	19.6	1.146	0.16	0.263	0.301
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	6	633332	3499.98	19.1	19.6	1.122	-0.1	0.278	0.312
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	6	633332	3499.98	19.01	19.6	1.146	0.07	0.240	0.275
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	6	633332	3499.98	22.02	22.7	1.169	-0.18	0.245	0.287
	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	5	656000	3840	21.37	22.90	1.422	-0.18	0.492	0.700
	FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	5	656000	3840	21.38	22.90	1.419	0.08	0.403	0.572
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	5	656000	3840	21.37	22.90	1.422	-0.07	0.395	0.562
	FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	5	656000	3840	21.38	22.90	1.419	0.01	0.321	0.456
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Front	10mm	5	656000	3840	24.31	25.90	1.442	0.1	0.450	0.649
	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	21.60	22.90	1.349	0.08	0.358	0.483
	FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	5	633332	3499.98	21.59	22.90	1.352	0.04	0.422	0.571
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	5	633332	3499.98	21.60	22.90	1.349	-0.17	0.433	0.584
	FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	5	633332	3499.98	21.59	22.90	1.352	-0.04	0.434	0.587
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	5	633332	3499.98	24.48	25.90	1.387	-0.17	0.375	0.520
	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	6	656000	3840	21.37	21.70	1.079	-0.18	0.492	0.531
	FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	6	656000	3840	21.38	21.70	1.076	0.08	0.403	0.434
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	6	656000	3840	21.37	21.70	1.079	-0.07	0.395	0.426
	FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	6	656000	3840	21.38	21.70	1.076	0.01	0.321	0.346
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Front	10mm	6	656000	3840	24.31	24.70	1.094	0.1	0.450	0.492
	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	21.60	21.70	1.023	0.08	0.358	0.366
	FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	6	633332	3499.98	21.59	21.70	1.026	0.04	0.422	0.433
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	6	633332	3499.98	21.60	21.70	1.023	-0.17	0.433	0.443
	FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	6	633332	3499.98	21.59	21.70	1.026	-0.04	0.434	0.445
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	6	633332	3499.98	24.48	24.70	1.052	-0.17	0.375	0.394

**<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	5	6	2437	20.40	20.50	1.023	99.08	1.009	-0.09	0.273	0.282
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	5	6	2437	20.40	20.50	1.023	99.08	1.009	-0.1	0.312	0.322
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	5	6	2437	20.40	20.50	1.023	99.08	1.009	-0.12	0.288	0.297
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	5/6	6	2437	20.32	20.50	1.042	99.08	1.009	0.02	0.577	0.607
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	5/6	6	2437	20.32	20.50	1.042	99.08	1.009	-0.01	0.667	0.701
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	5/6	6	2437	20.32	20.50	1.042	99.08	1.009	-0.03	0.559	0.588
100	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3 (4)	5	6	2437	20.20	20.50	1.072	93.19	1.073	0.1	0.345	0.397
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3 (3)	5	6	2437	19.62	20.50	1.225	93.19	1.073	0.1	0.419	0.551
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3 (4)	5	6	2437	20.20	20.50	1.072	93.19	1.073	-0.03	0.359	0.413
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3 (3)	5	6	2437	19.62	20.50	1.225	93.19	1.073	-0.03	0.557	0.732
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3 (4)	5	6	2437	20.20	20.50	1.072	93.19	1.073	0	0.269	0.309
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3 (3)	5	6	2437	19.62	20.50	1.225	93.19	1.073	0	0.469	0.616
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	7	11	2462	14.80	15.00	1.047	99.08	1.009	-0.11	0.092	0.097
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	7	11	2462	14.80	15.00	1.047	99.08	1.009	-0.15	0.088	0.093
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	7	11	2462	14.80	15.00	1.047	99.08	1.009	-0.11	0.079	0.083
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	7/8	1	2412	14.92	15.00	1.019	99.08	1.009	-0.07	0.175	0.180
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	7/8	1	2412	14.92	15.00	1.019	99.08	1.009	0.04	0.196	0.201
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	7/8	1	2412	14.92	15.00	1.019	99.08	1.009	-0.05	0.162	0.166
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3 (4)	7	1	2412	14.60	15.00	1.096	93.19	1.073	-0.08	0.079	0.093
	WLAN2.4GHz	802.11g 6Mbps	Front	10mm	Ant 4+3 (3)	7	1	2412	13.72	15.00	1.343	93.19	1.073	-0.08	0.115	0.166
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3 (4)	7	1	2412	14.60	15.00	1.096	93.19	1.073	-0.01	0.095	0.112
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3 (3)	7	1	2412	13.72	15.00	1.343	93.19	1.073	-0.01	0.134	0.193
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3 (4)	7	1	2412	14.60	15.00	1.096	93.19	1.073	-0.07	0.079	0.093
	WLAN2.4GHz	802.11g 6Mbps	Back	10mm	Ant 4+3 (3)	7	1	2412	13.72	15.00	1.343	93.19	1.073	-0.07	0.124	0.179



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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-HT20 MCS0	Front	10mm	Ant 4+3 (4)	5/7/9	52	5260	19.80	20.00	1.047	93.06	1.075	-0.15	0.182	0.205
	WLAN5GHz	802.11n-HT20 MCS0	Front	10mm	Ant 4+3 (3)	5/7/9	52	5260	18.73	20.00	1.340	93.06	1.075	-0.15	0.134	0.193
	WLAN5GHz	802.11n-HT20 MCS0	Back	10mm	Ant 4+3 (4)	5/7/9	52	5260	19.80	20.00	1.047	93.06	1.075	-0.15	0.154	0.173
	WLAN5GHz	802.11n-HT20 MCS0	Back	10mm	Ant 4+3 (3)	5/7/9	52	5260	18.73	20.00	1.340	93.06	1.075	-0.15	0.217	0.313
	WLAN5GHz	802.11n-HT20 MCS0	Back	10mm	Ant 4+3 (4)	5/7/9	52	5260	19.80	20.00	1.047	93.06	1.075	0.01	0.201	0.226
	WLAN5GHz	802.11n-HT20 MCS0	Back	10mm	Ant 4+3 (3)	5/7/9	52	5260	18.73	20.00	1.340	93.06	1.075	0.01	0.171	0.246
101	WLAN5GHz	802.11n-HT20 MCS0	Front	10mm	Ant 4	6/8	52	5260	19.60	20.00	1.096	93.06	1.075	-0.07	0.273	0.322
	WLAN5GHz	802.11n-HT20 MCS0	Back	10mm	Ant 4	6/8	52	5260	19.60	20.00	1.096	93.06	1.075	-0.08	0.268	0.316
	WLAN5GHz	802.11n-HT20 MCS0	Front	10mm	Ant 4	6/8	52	5260	19.60	20.00	1.096	93.06	1.075	0.09	0.251	0.296
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4+3 (4)	5/7	144	5720	19.00	19.50	1.122	93.46	1.070	-0.02	0.501	0.601
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4+3 (3)	5/7	144	5720	18.73	19.50	1.194	93.46	1.070	-0.02	0.356	0.455
102	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (4)	5/7	144	5720	19.00	19.50	1.122	93.46	1.070	-0.06	0.538	0.646
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (3)	5/7	144	5720	18.73	19.50	1.194	93.46	1.070	-0.06	0.271	0.346
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (4)	5/7	144	5720	19.00	19.50	1.122	93.46	1.070	0.01	0.522	0.627
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (3)	5/7	144	5720	18.73	19.50	1.194	93.46	1.070	0.01	0.238	0.304
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4	6/8	144	5720	19.10	19.50	1.096	93.46	1.070	-0.04	0.442	0.519
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4	6/8	144	5720	19.10	19.50	1.096	93.46	1.070	-0.15	0.491	0.576
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4	6/8	144	5720	19.10	19.50	1.096	93.46	1.070	-0.11	0.432	0.507
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3 (4)	9	138	5690	17.00	17.50	1.122	89.9	1.112	-0.1	0.292	0.364
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3 (3)	9	138	5690	16.63	17.50	1.222	89.9	1.112	-0.1	0.213	0.289
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (4)	9	138	5690	17.00	17.50	1.122	89.9	1.112	0.07	0.359	0.448
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	138	5690	16.63	17.50	1.222	89.9	1.112	0.07	0.186	0.253
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (4)	9	138	5690	17.00	17.50	1.122	89.9	1.112	0.12	0.352	0.439
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	138	5690	16.63	17.50	1.222	89.9	1.112	0.12	0.175	0.238
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4+3 (4)	5	157	5785	19.90	20.00	1.023	93.46	1.070	-0.04	0.559	0.612
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4+3 (3)	5	157	5785	18.63	20.00	1.371	93.46	1.070	-0.04	0.403	0.591
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (4)	5	157	5785	19.90	20.00	1.023	93.46	1.070	0.01	0.688	0.753
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (3)	5	157	5785	18.63	20.00	1.371	93.46	1.070	0.01	0.280	0.411
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (4)	5	157	5785	19.90	20.00	1.023	93.46	1.070	0.04	0.560	0.613
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (3)	5	157	5785	18.63	20.00	1.371	93.46	1.070	0.04	0.193	0.283
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4	6	165	5825	19.60	20.00	1.096	93.46	1.070	-0.1	0.563	0.661
103	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4	6	165	5825	19.60	20.00	1.096	93.46	1.070	-0.17	0.655	0.768
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4	6	165	5825	19.50	20.00	1.122	93.46	1.070	-0.03	0.451	0.541
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+3 (4)	7	151	5755	18.00	18.00	1.000	92.7	1.079	-0.04	0.290	0.313
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+3 (3)	7	151	5755	16.53	18.00	1.403	92.7	1.079	-0.04	0.221	0.335
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3 (4)	7	151	5755	18.00	18.00	1.000	92.7	1.079	0.02	0.407	0.439
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3 (3)	7	151	5755	16.53	18.00	1.403	92.7	1.079	0.02	0.169	0.256
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3 (4)	7	151	5755	17.30	18.00	1.175	92.7	1.079	0.02	0.246	0.312
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3 (3)	7	151	5755	16.70	18.00	1.349	92.7	1.079	0.02	0.116	0.169
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4	8	151	5755	17.60	18.00	1.096	92.7	1.079	0.08	0.231	0.273
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4	8	151	5755	17.60	18.00	1.096	92.7	1.079	-0.11	0.315	0.373
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4	8	151	5755	17.50	18.00	1.122	92.7	1.079	0.15	0.223	0.270
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3 (4)	9	155	5775	15.40	15.50	1.023	89.9	1.112	0.08	0.172	0.196
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3 (3)	9	155	5775	14.73	15.50	1.194	89.9	1.112	0.08	0.141	0.187
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (4)	9	155	5775	15.40	15.50	1.023	89.9	1.112	0.07	0.228	0.259
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	155	5775	14.73	15.50	1.194	89.9	1.112	0.07	0.102	0.135
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (4)	9	155	5775	15.40	15.50	1.023	89.9	1.112	0.06	0.170	0.193



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	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	155	5775	14.73	15.50	1.194	89.9	1.112	0.06	0.077	0.102
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FCC SAR TEST REPORT

Report No. : FA451606B

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)
104	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4+3 (4)	5/7	169	5845	19.30	19.50	1.047	93.46	1.070	-0.09	0.565	0.633
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4+3 (3)	5/7	169	5845	18.59	19.50	1.233	93.46	1.070	-0.09	0.337	0.445
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (4)	5/7	169	5845	19.30	19.50	1.047	93.46	1.070	-0.12	0.682	0.764
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (3)	5/7	169	5845	18.59	19.50	1.233	93.46	1.070	-0.12	0.250	0.330
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (4)	5/7	169	5845	19.30	19.50	1.047	93.46	1.070	0.02	0.521	0.584
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4+3 (3)	5/7	169	5845	18.59	19.50	1.233	93.46	1.070	0.02	0.186	0.245
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 4	6/8	177	5885	18.85	19.50	1.161	93.46	1.070	0.09	0.417	0.518
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4	6/8	177	5885	18.85	19.50	1.161	93.46	1.070	-0.15	0.455	0.565
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4	6/8	177	5885	18.10	19.50	1.380	93.46	1.070	-0.07	0.270	0.399
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 4	6/8	177	5885	18.10	19.50	1.380	93.46	1.070	-0.07	0.270	0.399
105	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3 (4)	9	171	5855	16.85	17.00	1.035	89.9	1.112	0.01	0.262	0.302
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.01	0.205	0.281
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (4)	9	171	5855	16.85	17.00	1.035	89.9	1.112	0.14	0.306	0.352
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.14	0.144	0.197
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (4)	9	171	5855	16.85	17.00	1.035	89.9	1.112	0.04	0.257	0.296
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.04	0.109	0.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.04	0.109	0.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.04	0.109	0.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.04	0.109	0.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.04	0.109	0.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.04	0.109	0.149

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)
105	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3 (4)	5/7/9	215	7025	13.38	13.50	1.028	88.24	1.133	0	0.036	0.042	0.290	0.338
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3 (3)	5/7/9	215	7025	12.77	13.50	1.183	88.24	1.133	0	0.018	0.024	0.108	0.145
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (4)	5/7/9	215	7025	13.38	13.50	1.028	88.24	1.133	0.13	0.056	0.065	0.429	0.500
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (3)	5/7/9	215	7025	12.77	13.50	1.183	88.24	1.133	0.13	0.156	0.209	1.170	1.568
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (4)	5/7/9	7	5985	10.55	12.00	1.396	88.24	1.133	-0.04	0.052	0.082	0.442	0.699
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (3)	5/7/9	7	5985	10.10	12.00	1.549	88.24	1.133	-0.04	0.034	0.060	0.287	0.504
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (4)	5/7/9	71	6305	10.95	12.00	1.274	88.24	1.133	-0.07	0.068	0.098	0.556	0.802
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (3)	5/7/9	71	6305	10.70	12.00	1.349	88.24	1.133	-0.07	0.064	0.098	0.510	0.779
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (4)	5/7/9	119	6545	11.35	12.50	1.303	88.24	1.133	0.04	0.086	0.127	0.666	0.983
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (3)	5/7/9	119	6545	10.77	12.50	1.489	88.24	1.133	0.04	0.086	0.145	0.662	1.117
106	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (4)	5/7/9	167	6785	10.95	11.00	1.012	88.24	1.133	-0.07	0.070	0.080	0.508	0.582
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (3)	5/7/9	167	6785	10.37	11.00	1.156	88.24	1.133	-0.07	0.066	0.086	0.479	0.627
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (4)	5/7/9	215	7025	13.38	13.50	1.028	88.24	1.133	-0.04	0.052	0.061	0.384	0.447
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3 (3)	5/7/9	215	7025	12.77	13.50	1.183	88.24	1.133	-0.04	0.117	0.157	0.855	1.146
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4	6/8	215	7025	14.48	14.50	1.005	88.24	1.133	0.09	0.019	0.022	0.117	0.133
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4	6/8	215	7025	14.48	14.50	1.005	88.24	1.133	-0.06	0.046	0.052	0.392	0.446
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4	6/8	7	5985	12.25	14.00	1.496	88.24	1.133	0.03	0.082	0.139	0.683	1.158
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4	6/8	71	6305	12.45	14.00	1.429	88.24	1.133	0.1	0.078	0.126	0.610	0.988
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4	6/8	119	6545	11.85	12.50	1.161	88.24	1.133	0.08	0.073	0.096	0.552	0.726
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4	6/8	167	6785	13.45	13.50	1.012	88.24	1.133	-0.15	0.121	0.139	0.878	1.006
107	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4	6/8	167	6785	13.45	13.50	1.012	88.24	1.133	0.1	0.094	0.108	0.653	0.748
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4	6/8	167	6785	13.45	13.50	1.012	88.24	1.133	0.1	0.094	0.108	0.653	0.748

<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	2/3	39	2441	20.21	20.50	1.069	77.13	1.080	-0.17	0.179	0.207
	Bluetooth	1Mbps	Back	10mm-	Ant 4	2/3	39	2441	20.21	20.50	1.069	77.13	1.080	-0.12	0.182	0.210
	Bluetooth	1Mbps	Back	10mm-	Ant 4	2/3	39	2441	20.21	20.50	1.069	77.13	1.080	-0.18	0.180	0.208
	Bluetooth	1Mbps	Front	10mm-	Ant 3	2/3	78	2480	19.79	20.00	1.050	77.13	1.080	-0.07	0.350	0.397
106	Bluetooth	1Mbps	Back	10mm-	Ant 3	2/3	78	2480	19.79	20.00	1.050	77.13	1.080	-0.05	0.462	0.524
	Bluetooth	1Mbps	Back	10mm-	Ant 3	2/3	78	2480	19.79	20.00	1.050	77.13	1.080	-0.11	0.402	0.456
	Bluetooth	1Mbps	Front	10mm	Ant 4	4	0	2402	14.70	15.00	1.072	77.13	1.080	-0.06	0.047	0.054
	Bluetooth	1Mbps	Back	10mm	Ant 4	4	0	2402	14.70	15.00	1.072	77.13	1.080	-0.17	0.055	0.064
	Bluetooth	1Mbps	Back	10mm	Ant 4	4	0	2402	14.70	15.00	1.072	77.13	1.080	-0.11	0.051	0.059
	Bluetooth	1Mbps	Front	10mm	Ant 3	4	39	2441	14.92	15.00	1.019	77.13	1.080	-0.05	0.126	0.139
	Bluetooth	1Mbps	Back	10mm	Ant 3	4	39	2441	14.92	15.00	1.019	77.13	1.080	-0.03	0.150	0.165
	Bluetooth	1Mbps	Back	10mm	Ant 3	4	39	2441	14.92	15.00	1.019	77.13	1.080	-0.04	0.150	0.165

14.4 Product Specific SAR
<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 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5GHz	802.11n-HT20 MCS0	Front	0mm	Ant 4+3 (4)	5/7/9	52	5260	19.80	20.00	1.047	93.06	1.075	0.09	1.390	1.565
	WLAN5GHz	802.11n-HT20 MCS0	Front	0mm	Ant 4+3 (3)	5/7/9	52	5260	18.73	20.00	1.340	93.06	1.075	0.09	1.190	1.714
	WLAN5GHz	802.11n-HT20 MCS0	Back	0mm	Ant 4+3 (4)	5/7/9	52	5260	19.80	20.00	1.047	93.06	1.075	0.14	0.579	0.652
	WLAN5GHz	802.11n-HT20 MCS0	Back	0mm	Ant 4+3 (3)	5/7/9	52	5260	18.73	20.00	1.340	93.06	1.075	0.14	0.576	0.830
	WLAN5GHz	802.11n-HT20 MCS0	Left Side	0mm	Ant 4+3 (4)	5/7/9	52	5260	19.80	20.00	1.047	93.06	1.075	0.12	0.001	0.001
	WLAN5GHz	802.11n-HT20 MCS0	Left Side	0mm	Ant 4+3 (3)	5/7/9	52	5260	18.73	20.00	1.340	93.06	1.075	0.12	0.626	0.902
	WLAN5GHz	802.11n-HT20 MCS0	Right Side	0mm	Ant 4+3 (4)	5/7/9	52	5260	19.80	20.00	1.047	93.06	1.075	0.08	0.121	0.136
	WLAN5GHz	802.11n-HT20 MCS0	Right Side	0mm	Ant 4+3 (3)	5/7/9	52	5260	18.73	20.00	1.340	93.06	1.075	0.08	0.001	0.001
	WLAN5GHz	802.11n-HT20 MCS0	Top Side	0mm	Ant 4+3 (4)	5/7/9	52	5260	19.80	20.00	1.047	93.06	1.075	0.04	0.878	0.988
	WLAN5GHz	802.11n-HT20 MCS0	Top Side	0mm	Ant 4+3 (3)	5/7/9	52	5260	18.73	20.00	1.340	93.06	1.075	0.04	0.001	0.001
	WLAN5GHz	802.11n-HT20 MCS0	Front	0mm	Ant 4+3 (4)	5/7/9	52	5260	19.80	20.00	1.047	93.06	1.075	0.13	0.932	1.049
	WLAN5GHz	802.11n-HT20 MCS0	Front	0mm	Ant 4+3 (3)	5/7/9	52	5260	18.73	20.00	1.340	93.06	1.075	0.13	0.944	1.360
107	WLAN5GHz	802.11n-HT20 MCS0	Front	0mm	Ant 4	6/8	52	5260	19.60	20.00	1.096	93.03	1.075	0.17	1.680	1.980
	WLAN5GHz	802.11n-HT20 MCS0	Back	0mm	Ant 4	6/8	52	5260	19.60	20.00	1.096	93.03	1.075	-0.09	0.632	0.745
	WLAN5GHz	802.11n-HT20 MCS0	Left Side	0mm	Ant 4	6/8	52	5260	19.60	20.00	1.096	93.03	1.075	0.15	0.009	0.011
	WLAN5GHz	802.11n-HT20 MCS0	Right Side	0mm	Ant 4	6/8	52	5260	19.60	20.00	1.096	93.03	1.075	0.16	0.107	0.126
	WLAN5GHz	802.11n-HT20 MCS0	Top Side	0mm	Ant 4	6/8	52	5260	19.60	20.00	1.096	93.03	1.075	-0.02	0.973	1.147
	WLAN5GHz	802.11n-HT20 MCS0	Front	0mm	Ant 4	6/8	52	5260	19.60	20.00	1.096	93.03	1.075	0.07	1.330	1.568

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 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	144	5720	19.00	19.50	1.122	93.46	1.070	0.19	1.810	2.173
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	144	5720	18.73	19.50	1.194	93.46	1.070	0.19	1.450	1.852
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3 (4)	5/7	138	5690	18.90	19.00	1.023	89.9	1.112	0.01	1.600	1.821
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3 (3)	5/7	138	5690	18.33	19.00	1.167	89.9	1.112	0.01	1.500	1.946
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	100	5500	15.50	15.50	1.000	93.46	1.070	0.19	0.806	0.862
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	100	5500	14.93	15.50	1.140	93.46	1.070	0.19	0.531	0.648
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	116	5580	18.70	19.00	1.072	93.46	1.070	0.1	1.990	2.282
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	116	5580	18.23	19.00	1.194	93.46	1.070	0.1	1.390	1.776
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	124	5620	18.60	19.00	1.096	93.46	1.070	0.12	2.300	2.698
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	124	5620	18.43	19.00	1.140	93.46	1.070	0.12	1.850	2.257
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	132	5660	17.80	18.00	1.047	93.46	1.070	0.07	2.320	2.599
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	132	5660	17.23	18.00	1.194	93.46	1.070	0.07	1.830	2.338
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4+3 (4)	5/7	144	5720	19.00	19.50	1.122	93.46	1.070	-0.16	1.470	1.765
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4+3 (3)	5/7	144	5720	18.73	19.50	1.194	93.46	1.070	-0.16	0.910	1.163
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 4+3 (4)	5/7	144	5720	19.00	19.50	1.122	93.46	1.070	0.13	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 4+3 (3)	5/7	144	5720	18.73	19.50	1.194	93.46	1.070	0.13	0.624	0.797
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 4+3 (4)	5/7	144	5720	19.00	19.50	1.122	93.46	1.070	0.09	0.188	0.226
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 4+3 (3)	5/7	144	5720	18.73	19.50	1.194	93.46	1.070	0.09	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4+3 (4)	5/7	144	5720	19.00	19.50	1.122	93.46	1.070	0.01	1.190	1.429
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4+3 (3)	5/7	144	5720	18.73	19.50	1.194	93.46	1.070	0.01	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	124	5620	18.60	19.00	1.096	93.46	1.070	0.11	1.950	2.288
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	124	5620	18.43	19.00	1.140	93.46	1.070	0.11	1.920	2.343
108	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	144	5720	19.10	19.50	1.096	93.46	1.070	0.1	2.340	2.745
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4	6/8	138	5690	18.90	19.00	1.023	89.9	1.112	0.03	1.920	2.185
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	100	5500	15.30	15.50	1.047	93.46	1.070	0.04	0.869	0.974
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	116	5580	18.50	19.00	1.122	93.46	1.070	0.16	2.240	2.689
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	124	5620	18.90	19.00	1.023	93.46	1.070	0.12	2.460	2.694
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	132	5660	17.60	18.00	1.096	93.46	1.070	0.18	1.970	2.311
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4	6/8	144	5720	19.10	19.50	1.096	93.46	1.070	0.06	1.560	1.830
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 4	6/8	144	5720	19.10	19.50	1.096	93.46	1.070	0.03	0.025	0.029
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 4	6/8	144	5720	19.10	19.50	1.096	93.46	1.070	0.09	0.255	0.299
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4	6/8	144	5720	19.10	19.50	1.096	93.46	1.070	-0.01	1.420	1.666
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	144	5720	19.10	19.50	1.096	93.46	1.070	0.08	1.770	2.077
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3 (4)	9	138	5690	17.00	17.50	1.122	89.9	1.112	0.04	1.110	1.385
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3 (3)	9	138	5690	16.63	17.50	1.222	89.9	1.112	0.04	1.190	1.617
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3 (4)	9	138	5690	17.00	17.50	1.122	89.9	1.112	0.19	0.874	1.090
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3 (3)	9	138	5690	16.63	17.50	1.222	89.9	1.112	0.19	0.636	0.864
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3 (4)	9	138	5690	17.00	17.50	1.122	89.9	1.112	0.12	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3 (3)	9	138	5690	16.63	17.50	1.222	89.9	1.112	0.12	0.409	0.556
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3 (4)	9	138	5690	17.00	17.50	1.122	89.9	1.112	0.11	0.107	0.134
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3 (3)	9	138	5690	16.63	17.50	1.222	89.9	1.112	0.11	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3 (4)	9	138	5690	17.00	17.50	1.122	89.9	1.112	0.02	0.732	0.913
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3 (3)	9	138	5690	16.63	17.50	1.222	89.9	1.112	0.02	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3 (4)	9	138	5690	17.00	17.50	1.122	89.9	1.112	0.03	1.240	1.547
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3 (3)	9	138	5690	16.63	17.50	1.222	89.9	1.112	0.03	1.140	1.549

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 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	169	5845	19.30	19.50	1.047	93.46	1.070	0.14	2.480	2.779
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	169	5845	18.59	19.50	1.233	93.46	1.070	0.14	1.540	2.032
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	173	5865	19.05	19.50	1.109	93.46	1.070	0.04	2.290	2.718
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	173	5865	18.09	19.50	1.384	93.46	1.070	0.04	1.220	1.806
109	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	177	5885	19.30	19.50	1.047	93.46	1.070	0.14	2.490	2.790
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	177	5885	18.09	19.50	1.384	93.46	1.070	0.14	1.180	1.747
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4+3 (4)	5/7	169	5845	19.30	19.50	1.047	93.46	1.070	0.17	1.850	2.073
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4+3 (3)	5/7	169	5845	18.59	19.50	1.233	93.46	1.070	0.17	0.906	1.195
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4+3 (4)	5/7	173	5865	19.05	19.50	1.109	93.46	1.070	0.09	1.650	1.958
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4+3 (3)	5/7	173	5865	18.09	19.50	1.384	93.46	1.070	0.09	0.770	1.140
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4+3 (4)	5/7	177	5885	19.30	19.50	1.047	93.46	1.070	0.12	1.800	2.017
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4+3 (3)	5/7	177	5885	18.09	19.50	1.384	93.46	1.070	0.12	0.799	1.183
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 4+3 (4)	5/7	169	5845	19.30	19.50	1.047	93.46	1.070	0.17	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 4+3 (3)	5/7	169	5845	18.59	19.50	1.233	93.46	1.070	0.17	0.638	0.842
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 4+3 (4)	5/7	169	5845	19.30	19.50	1.047	93.46	1.070	0.15	0.235	0.263
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 4+3 (3)	5/7	169	5845	18.59	19.50	1.233	93.46	1.070	0.15	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4+3 (4)	5/7	169	5845	19.30	19.50	1.047	93.46	1.070	-0.02	1.520	1.703
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4+3 (3)	5/7	169	5845	18.59	19.50	1.233	93.46	1.070	-0.02	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	177	5885	19.30	19.50	1.047	93.46	1.070	0.15	1.930	2.162
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	177	5885	18.09	19.50	1.384	93.46	1.070	0.15	1.060	1.569
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	177	5885	18.85	19.50	1.161	93.46	1.070	0.11	2.010	2.498
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	169	5845	18.85	19.50	1.161	93.46	1.070	0.09	2.090	2.597
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	173	5865	18.85	19.50	1.161	93.46	1.070	0.09	2.030	2.523
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4	6/8	177	5885	18.85	19.50	1.161	93.46	1.070	0.02	1.250	1.553
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 4	6/8	177	5885	18.85	19.50	1.161	93.46	1.070	0.03	0.014	0.017
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 4	6/8	177	5885	18.85	19.50	1.161	93.46	1.070	0.02	0.155	0.193
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4	6/8	177	5885	18.85	19.50	1.161	93.46	1.070	0.01	1.080	1.342
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	169	5845	18.85	19.50	1.161	93.46	1.070	0.01	1.530	1.901
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3 (4)	9	171	5855	16.85	17.00	1.035	89.9	1.112	0.15	1.290	1.485
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.15	0.915	1.255
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3 (4)	9	171	5855	16.85	17.00	1.035	89.9	1.112	0.12	0.992	1.142
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.12	0.557	0.764
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3 (4)	9	171	5855	16.85	17.00	1.035	89.9	1.112	0.14	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.14	0.375	0.514
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3 (4)	9	171	5855	16.85	17.00	1.035	89.9	1.112	0.16	0.085	0.098
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.16	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3 (4)	9	171	5855	16.85	17.00	1.035	89.9	1.112	-0.11	0.684	0.787
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	-0.11	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3 (4)	9	171	5855	16.85	17.00	1.035	89.9	1.112	0.18	0.972	1.119
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3 (3)	9	171	5855	16.09	17.00	1.233	89.9	1.112	0.18	0.637	0.873



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 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3 (4)	5/7/9	215	7025	13.38	13.50	1.028	88.24	1.133	0.18	0.132	0.154	3.130	3.646
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4+3 (3)	5/7/9	215	7025	12.77	13.50	1.183	88.24	1.133	0.18	0.179	0.240	4.290	5.750
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (4)	5/7/9	215	7025	13.38	13.50	1.028	88.24	1.133	0.03	0.137	0.160	3.290	3.832
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (3)	5/7/9	215	7025	12.77	13.50	1.183	88.24	1.133	0.03	0.274	0.367	6.640	8.900
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (4)	5/7/9	7	5985	10.55	12.00	1.396	88.24	1.133	-0.05	0.144	0.228	3.520	5.569
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (3)	5/7/9	7	5985	10.10	12.00	1.549	88.24	1.133	-0.05	0.126	0.221	3.030	5.317
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (4)	5/7/9	71	6305	10.95	12.00	1.274	88.24	1.133	-0.11	0.227	0.328	5.410	7.806
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (3)	5/7/9	71	6305	10.70	12.00	1.349	88.24	1.133	-0.11	0.147	0.225	3.550	5.426
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (4)	5/7/9	119	6545	11.35	12.50	1.303	88.24	1.133	0.05	0.231	0.341	5.600	8.268
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (3)	5/7/9	119	6545	10.77	12.50	1.489	88.24	1.133	0.05	0.199	0.336	4.830	8.150
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (4)	5/7/9	167	6785	10.95	11.00	1.012	88.24	1.133	0.03	0.193	0.221	4.650	5.329
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (3)	5/7/9	167	6785	10.37	11.00	1.156	88.24	1.133	0.03	0.170	0.223	4.120	5.397
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	0mm	Ant 4+3 (4)	5/7/9	215	7025	13.38	13.50	1.028	88.24	1.133	-0.11	0.001	0.001	0.000	0.000
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	0mm	Ant 4+3 (3)	5/7/9	215	7025	12.77	13.50	1.183	88.24	1.133	-0.11	0.169	0.227	3.970	5.321
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	0mm	Ant 4+3 (4)	5/7/9	215	7025	13.38	13.50	1.028	88.24	1.133	0.1	0.020	0.023	0.476	0.554
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	0mm	Ant 4+3 (3)	5/7/9	215	7025	12.77	13.50	1.183	88.24	1.133	0.1	0.001	0.001	0.000	0.000
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	0mm	Ant 4+3 (4)	5/7/9	215	7025	13.38	13.50	1.028	88.24	1.133	0.02	0.154	0.179	3.650	4.251
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	0mm	Ant 4+3 (3)	5/7/9	215	7025	12.77	13.50	1.183	88.24	1.133	0.02	0.001	0.001	0.000	0.000
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (4)	5/7/9	215	7025	13.38	13.50	1.028	88.24	1.133	0.13	0.162	0.189	3.950	4.601
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4+3 (3)	5/7/9	215	7025	12.77	13.50	1.183	88.24	1.133	0.13	0.269	0.361	6.490	8.699
	WLAN6GHz	802.11ax-HE80 MCS0	Front	0mm	Ant 4	6/8	215	7025	14.48	14.50	1.005	93.46	1.070	-0.04	0.087	0.094	2.080	2.236
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4	6/8	215	7025	14.48	14.50	1.005	93.46	1.070	0.06	0.130	0.140	3.130	3.365
110	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4	6/8	7	5985	12.25	14.00	1.496	88.24	1.133	0.04	0.287	0.487	6.870	11.646
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4	6/8	71	6305	12.45	14.00	1.429	88.24	1.133	0.09	0.266	0.431	6.410	10.377
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4	6/8	119	6545	11.85	12.50	1.161	88.24	1.133	0.07	0.258	0.340	6.240	8.211
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4	6/8	167	6785	13.45	13.50	1.012	88.24	1.133	0.05	0.312	0.358	7.550	8.653
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	0mm	Ant 4	6/8	215	7025	14.48	14.50	1.005	93.46	1.070	0.05	0.001	0.001	0.033	0.035
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	0mm	Ant 4	6/8	215	7025	14.48	14.50	1.005	93.46	1.070	-0.04	0.013	0.014	0.313	0.336
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	0mm	Ant 4	6/8	215	7025	14.48	14.50	1.005	93.46	1.070	0.06	0.078	0.084	1.860	1.999
	WLAN6GHz	802.11ax-HE80 MCS0	Back	0mm	Ant 4	6/8	7	5985	12.25	14.00	1.496	88.24	1.133	0.09	0.264	0.448	6.310	10.697

<NFC SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Freq. (MHz)	Power Drift (dB)	Measured 10g SAR (W/kg)
	NFC	ASK	Front	0mm	13.56	0	0.001
111	NFC	ASK	Back	0mm	13.56	-0.1	0.062
	NFC	ASK	Left Side	0mm	13.56	0	0.001
	NFC	ASK	Right Side	0mm	13.56	0	0.001
	NFC	ASK	Top Side	0mm	13.56	0	0.001
	NFC	ASK	Bottom Side	0mm	13.56	0	0.001

**14.5 6GHz PD Test Result**

Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	7	5985	10.10	0.0625	2.36	9.513080761	1.8	2.01
WLAN6GHz	802.11ax-HE80 MCS0	Front	10.02mm	Ant 4+3(4)	7	5985	10.55	0.25	0.264		0.201	0.642
WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	215	7025	13.47	0.0625	2.9	5.990751378	1.98	2.91
WLAN6GHz	802.11ax-HE80 MCS0	Front	8.54mm	Ant 4+3(4)	215	7025	14.18	0.25	0.73		0.372	0.644

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	Grid Step (λ)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4	1/2	215	7025	14.48	14.50	1.005	88.24	1.133	0.0625	1.5535	-0.05	0.824	1.46	0.975	1.72
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4	1/2	7	5985	12.25	12.50	1.059	88.24	1.133	0.0625	1.5535	0.09	1.23	2.29	1.82	3.39
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4	1/2	71	6305	12.45	12.50	1.012	88.24	1.133	0.0625	1.5535	-0.05	1.25	2.23	2.39	4.26
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4	1/2	119	6545	12.75	13.50	1.189	88.24	1.133	0.0625	1.5535	0.14	1.52	3.18	2.27	4.75
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4	1/2	167	6785	14.48	14.50	1.005	88.24	1.133	0.0625	1.5535	-0.04	1.86	3.29	2.82	4.99
01	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	1/2	215	7025	13.47	14.50	1.268	88.24	1.133	0.0625	1.5535	-0.02	1.98	4.42	2.91	6.49
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(3)	1/2	7	5985	10.10	11.50	1.380	88.24	1.133	0.0625	1.5535	0.09	1.8	4.37	2.01	4.88
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(4)	1/2	71	6305	10.95	11.50	1.135	88.24	1.133	0.0625	1.5535	-0.03	1.61	3.22	2.34	4.67
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(4)	1/2	119	6545	12.45	13.50	1.274	88.24	1.133	0.0625	1.5535	-0.02	1.01	2.26	1.72	3.86
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(4)	1/2	167	6785	13.95	14.50	1.135	88.24	1.133	0.0625	1.5535	0.04	2.01	4.02	2.89	5.77
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4	5/6	215	7025	14.48	14.50	1.005	88.24	1.133	0.0625	1.5535	-0.05	0.824	1.46	0.975	1.72
	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4	5/6	215	7025	14.48	14.50	1.005	88.24	1.133	0.0625	1.5535	0.09	1.74	3.08	2.28	4.03
	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4	5/6	7	5985	12.25	14.00	1.496	88.24	1.133	0.0625	1.5535	-0.13	1.25	3.29	1.79	4.71
	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4	5/6	71	6305	12.45	14.00	1.429	88.24	1.133	0.0625	1.5535	0.12	0.851	2.14	2.12	5.33
	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4	5/6	119	6545	11.85	12.50	1.161	88.24	1.133	0.0625	1.5535	-0.14	0.725	1.48	2.14	4.37
	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4	5/6	167	6785	13.45	13.50	1.012	88.24	1.133	0.0625	1.5535	0.16	1.76	3.13	3.7	6.59
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	2mm	Ant 4	5/6	215	7025	14.48	14.50	1.005	88.24	1.133	0.0625	1.5535	-0.09	0.428	0.76	0.446	0.79
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	2mm	Ant 4	5/6	215	7025	14.48	14.50	1.005	88.24	1.133	0.0625	1.5535	-0.02	0.353	0.62	0.404	0.71
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	2mm	Ant 4	5/6	215	7025	14.48	14.50	1.005	88.24	1.133	0.0625	1.5535	0.09	1	1.77	1.27	2.25
	WLAN6GHz	802.11ax-HE80 MCS0	Front	2mm	Ant 4+3(4)	5/6	215	7025	13.38	13.50	1.028	88.24	1.133	0.0625	1.5535	-0.06	0.881	1.59	1.7	3.08
	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4+3(3)	5/6	215	7025	12.77	13.50	1.183	88.24	1.133	0.0625	1.5535	-0.14	3.27	6.81	3.47	7.23
	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4+3(4)	5/6	7	5985	10.55	12.00	1.396	88.24	1.133	0.0625	1.5535	0.06	1.22	3.00	1.77	4.35
	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4+3(4)	5/6	71	6305	10.95	12.00	1.274	88.24	1.133	0.0625	1.5535	-0.03	1.76	3.95	2.41	5.40
02	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4+3(4)	5/6	119	6545	11.35	12.50	1.303	88.24	1.133	0.0625	1.5535	-0.12	1.8	4.13	3.19	7.31
	WLAN6GHz	802.11ax-HE80 MCS0	Back	2mm	Ant 4+3(4)	5/6	167	6785	10.95	11.00	1.012	88.24	1.133	0.0625	1.5535	-0.05	1.41	2.51	2.83	5.04
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	2mm	Ant 4+3(3)	5/6	215	7025	12.77	13.50	1.183	88.24	1.133	0.0625	1.5535	0.06	1.78	3.71	2.07	4.31
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	2mm	Ant 4+3(4)	5/6	215	7025	13.38	13.50	1.028	88.24	1.133	0.0625	1.5535	0.05	0.574	1.04	0.619	1.12
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	2mm	Ant 4+3(4)	5/6	215	7025	13.38	13.50	1.028	88.24	1.133	0.0625	1.5535	0.03	2.24	4.05	2.43	4.40
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4	7/8/9	71	6305	11.95	12.00	1.012	88.24	1.133	0.0625	1.5535	0.05	1.15	2.05	1.18	2.10
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4	7/8/9	7	5985	11.35	11.50	1.035	88.24	1.133	0.0625	1.5535	-0.09	0.656	1.20	0.683	1.24
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4	7/8/9	167	6785	6.75	8.50	1.496	88.24	1.133	0.0625	1.5535	0.15	0.388	1.02	0.413	1.09
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4	7/8/9	71	6305	11.95	12.00	1.012	88.24	1.133	0.0625	1.5535	-0.11	0.62	1.10	0.917	1.63
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	10mm	Ant 4	7/8/9	71	6305	11.95	12.00	1.012	88.24	1.133	0.0625	1.5535	-0.13	0.289	0.51	0.301	0.54
	WLAN6GHz	802.11ax-HE80 MCS0	Right Side	10mm	Ant 4	7/8/9	71	6305	11.95	12.00	1.012	88.24	1.133	0.0625	1.5535	0.15	0.546	0.97	0.561	1.00
	WLAN6GHz	802.11ax-HE80 MCS0	Top Side	10mm	Ant 4	7/8/9	71	6305	11.95	12.00	1.012	88.24	1.133	0.0625	1.5535	0.13	0.678	1.21	0.717	1.28
	WLAN6GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 4+3(4)	7/8/9	71	6305	11.85	12.00	1.035	88.24	1.133	0.0625	1.5535	0.09	0.715	1.30	0.782	1.42
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(3)	7/8/9	71	6305	11.10	12.00	1.230	88.24	1.133	0.0625	1.5535	-0.05	0.907	1.96	0.973	2.11
03	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(4)	7/8/9	7	5985	11.35	11.50	1.035	88.24	1.133	0.0625	1.5535	0.11	1.25	2.28	1.32	2.41
	WLAN6GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 4+3(3)	7/8/9	167	6785	7.57	8.50	1.239	88.24	1.133	0.0625	1.5535	0.16	0.832	1.81	0.874	1.91
	WLAN6GHz	802.11ax-HE80 MCS0	Left Side	10mm	Ant 4+3(3)	7/8/9	71	6305	11.10	12.00	1.230	88.24	1.133	0.0625	1.5535	-0.01	0.596	1.29	0.643	1.39



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WLAN6GHz	802.11ax-HE80 MCS0	Right Side	10mm	Ant 4+3(4)	7/8/9	71	6305	11.85	12.00	1.035	88.24	1.133	0.0625	1.5535	-0.09	0.63	1.15	0.634	1.16
WLAN6GHz	802.11ax-HE80 MCS0	Top Side	10mm	Ant 4+3(4)	7/8/9	71	6305	11.85	12.00	1.035	88.24	1.133	0.0625	1.5535	0.05	0.66	1.20	0.744	1.36

14.6 Repeated SAR Measurement

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)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1/2	12	2467	13.82	15.00	1.312	99.08	1.009	-0.08	0.863	-	1.143
2nd	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1/2	12	2467	13.82	15.00	1.312	99.08	1.009	0.11	0.842	1.02	1.115
1st	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 4	2	60	5300	13.70	14.00	1.072	93.46	1.070	0.01	0.901	-	1.033
2nd	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 4	2	60	5300	13.70	14.00	1.072	93.46	1.070	0.08	0.888	1.01	1.018
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	122	5610	13.80	14.00	1.047	89.9	1.112	0.04	0.966	-	1.125
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	122	5610	13.80	14.00	1.047	89.9	1.112	0.17	0.933	1.04	1.086
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	1	171	5855	13.40	13.50	1.023	89.9	1.112	0.18	0.936	-	1.065
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	1	171	5855	12.58	13.50	1.236	89.9	1.112	0.18	0.156		0.214
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (4)	1	171	5855	13.40	13.50	1.023	89.9	1.112	0.18	0.898	1.04	1.022
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+3 (3)	1	171	5855	12.58	13.50	1.236	89.9	1.112	0.18	0.150		0.206

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)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	2	167	6785	14.48	14.50	1.005	88.24	1.133	-0.1	0.988	-	1.125
2nd	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4	2	167	6785	14.48	14.50	1.005	88.24	1.133	0.18	0.979	1.01	1.114

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)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	124	5620	18.90	19.00	1.023	93.46	1.070	0.12	2.460	-	2.694
2nd	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	6/8	124	5620	18.90	19.00	1.023	93.46	1.070	0.09	2.330	1.06	2.551
1st	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	177	5885	19.30	19.50	1.047	93.46	1.070	0.14	2.490	-	2.790
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	177	5885	18.09	19.50	1.384	93.46	1.070	0.14	1.180		1.747
2nd	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (4)	5/7	177	5885	19.30	19.50	1.047	93.46	1.070	0.08	2.400	1.04	2.689
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4+3 (3)	5/7	177	5885	18.09	19.50	1.384	93.46	1.070	0.08	1.480		2.191

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The ratio is the difference in percentage between original and repeated *measured SAR*.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

**14.7 Power Class 2 and Power Class 3 Linearity****General Note:**

This device support Power Class 2 and Power Class 3 operations. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE and FR1 configuration and exposure condition combination, according to the highest time averaged power for Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required. Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

<LTE Band 41 Linearity Data for Head>

Ant 2	LTE Band 41	LTE Band 41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25.7	27.5
Reported 1g SAR (W/kg)	0.712	0.692
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	235.18	243.49
Linearity SAR(W/kg)	0.74	
% deviation from expected linearity		-6.13%

Ant 0	LTE Band 41	LTE Band 41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25.2	27
Reported 1g SAR (W/kg)	0.245	0.242
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	209.61	217.01
Linearity SAR(W/kg)	0.25	
% deviation from expected linearity		-4.60%

<LTE Band 41 Linearity Data for Hotspot>

Ant 2	LTE Band 41	LTE Band 41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.3	24.9
Reported 1g SAR (W/kg)	0.823	0.738
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	135.33	133.81
Linearity SAR(W/kg)	0.81	
% deviation from expected linearity		-9.31%

Ant 0	LTE Band 41	LTE Band 41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.6	25.2
Reported 1g SAR (W/kg)	0.453	0.406
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	145.01	143.38
Linearity SAR(W/kg)	0.45	
% deviation from expected linearity		-9.36%

<LTE Band 41 Linearity Data for Body-worn>

Ant 2	LTE Band 41	LTE Band 41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.7	25.3
Reported 1g SAR (W/kg)	0.7	0.651
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	148.39	146.72
Linearity SAR(W/kg)	0.69	
% deviation from expected linearity		-5.94%

Ant 0	LTE Band 41	LTE Band 41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25.2	27
Reported 1g SAR (W/kg)	0.661	0.651
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	209.61	217.01
Linearity SAR(W/kg)	0.68	
% deviation from expected linearity		-4.87%

<FR1 n41 Linearity Data for Head>

Ant 2	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25.5	27.5
Reported 1g SAR (W/kg)	0.949	0.702
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	354.81	281.17
Linearity SAR(W/kg)	0.75	
% deviation from expected linearity		-6.65%

Ant 0	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25.2	27
Reported 1g SAR (W/kg)	0.538	0.426
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	331.13	250.59
Linearity SAR(W/kg)	0.41	
% deviation from expected linearity		4.63%

Ant 1	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	15.9	18.9
Reported 1g SAR (W/kg)	0.809	0.78
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	38.90	38.81
Linearity SAR(W/kg)	0.81	
% deviation from expected linearity		-3.36%

Ant 5	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	16.6	19.6
Reported 1g SAR (W/kg)	0.939	0.883
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	45.71	45.60
Linearity SAR(W/kg)	0.94	
% deviation from expected linearity		-5.74%

<FR1 n77 Linearity Data for Head>

Ant 6	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25.7	27.3
Reported 1g SAR (W/kg)	0.767	0.594
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	371.54	268.52
Linearity SAR(W/kg)	0.55	
% deviation from expected linearity		7.16%

Ant 2	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25.1	26.7
Reported 1g SAR (W/kg)	0.983	0.643
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	323.59	233.87
Linearity SAR(W/kg)	0.71	
% deviation from expected linearity		-9.49%

Ant 1	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	15.5	18.6
Reported 1g SAR (W/kg)	0.729	0.673
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	36.22
Linearity SAR(W/kg)	0.74	
% deviation from expected linearity		-9.57%

Ant 5	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	15.6	18.6
Reported 1g SAR (W/kg)	0.726	0.704
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	36.31	36.22
Linearity SAR(W/kg)	0.72	
% deviation from expected linearity		-2.80%

<FR1 n41 Linearity Data for Hotspot>

Ant 2	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.6	24.6
Reported 1g SAR (W/kg)	0.842	0.824
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	144.54	144.20
Linearity SAR(W/kg)	0.84	
% deviation from expected linearity		-1.91%

Ant 0	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.9	24.9
Reported 1g SAR (W/kg)	0.469	0.432
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	154.88	154.51
Linearity SAR(W/kg)	0.47	
% deviation from expected linearity		-7.67%

Ant 1	FR1 n41_Ant 2	FR1 n41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.3	22.3
Reported 1g SAR (W/kg)	0.444	0.404
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	85.11	84.91
Linearity SAR(W/kg)	0.44	
% deviation from expected linearity		-8.79%

Ant 5	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.7	22.7
Reported 1g SAR (W/kg)	0.363	0.329
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	93.33	93.10
Linearity SAR(W/kg)	0.36	
% deviation from expected linearity		-9.15%

<FR1 n77 Linearity Data for Hotspot>

Ant 6	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	20.8	23.9
Reported 1g SAR (W/kg)	0.605	0.603
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	120.23	122.74
Linearity SAR(W/kg)	0.62	
% deviation from expected linearity		-2.37%

Ant 2	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.5	22.5
Reported 1g SAR (W/kg)	0.811	0.732
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	89.13	88.91
Linearity SAR(W/kg)	0.81	
% deviation from expected linearity		-9.53%

Ant 1	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.6	22.70
Reported 1g SAR (W/kg)	0.578	0.565
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	91.20	93.10
Linearity SAR(W/kg)	0.59	
% deviation from expected linearity		-4.25%

Ant 5	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.70	24.70
Reported 1g SAR (W/kg)	0.531	0.492
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	147.91	147.56
Linearity SAR(W/kg)	0.53	
% deviation from expected linearity		-7.12%

<FR1 n41 Linearity Data for Body-worn>

Ant 2	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.7	24.7
Reported 1g SAR (W/kg)	0.671	0.658
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	147.91	147.56
Linearity SAR(W/kg)	0.67	
% deviation from expected linearity		-1.70%

Ant 0	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24.4	27
Reported 1g SAR (W/kg)	0.886	0.731
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	275.42	250.59
Linearity SAR(W/kg)	0.81	
% deviation from expected linearity		-9.32%

Ant 1	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.40	25.40
Reported 1g SAR (W/kg)	0.796	0.715
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	173.78	173.37
Linearity SAR(W/kg)	0.79	
% deviation from expected linearity		-9.96%

Ant 5	FR1 n41	FR1 n41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.10	25.10
Reported 1g SAR (W/kg)	0.782	0.704
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	162.18	161.80
Linearity SAR(W/kg)	0.78	
% deviation from expected linearity		-9.76%

<FR1 n77 Linearity Data for Body-worn>

Ant 6	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	20.8	23.9
Reported 1g SAR (W/kg)	0.438	0.427
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	120.23	122.74
Linearity SAR(W/kg)	0.45	
% deviation from expected linearity		-4.50%

Ant 2	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21	24
Reported 1g SAR (W/kg)	0.517	0.482
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	125.89	125.59
Linearity SAR(W/kg)	0.52	
% deviation from expected linearity		-6.55%

Ant 1	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.60	24.70
Reported 1g SAR (W/kg)	0.703	0.653
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	144.54	147.56
Linearity SAR(W/kg)	0.72	
% deviation from expected linearity		-9.01%

Ant 5	FR1 n77	FR1 n77
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.90	25.90
Reported 1g SAR (W/kg)	0.7	0.649
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	194.98	194.52
Linearity SAR(W/kg)	0.70	
% deviation from expected linearity		-7.07%

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Test Engineer : Henry Chou, Andy Chiang, Harry Hsu, Barry Huang, Jordar Jhuang, Chris Yang, Howard Zhao, Charles Shen, Bevis Chang, Willie Huang, Teddy Chang, Kevin Guo, Lev Lo, John Fan, Willy Yu, Wilson Lin, Jefferson Lin, Lu Chen and White Hua

15. Uncertainty Assessment

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

- (a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- (b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Applicable for SAR Measurements:

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						14.5%	14.2%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.4%

Applicable for Power Density Measurements:

Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response (BW ≤ 1 GHz)	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependance	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					2.68

16. References

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