FCC SAR Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	POCO
MODEL NAME	:	22011211G
FCC ID	:	2AFZZ211G
STANDARD	:	FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Reviewed by: Hank Huang / Supervisor

Approved by: Johnny Chen / Manager

ACCREDITED Cert #5145.01

Sporton International Inc. (Shenzhen)
1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China

Table of Contents

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA1D3005	Rev. 01	Initial issue of report.	Feb. 18, 2022

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Xiaomi Communications Co., Ltd., Mobile Phone, 22011211G,** are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 15mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	0.80	0.65	0.52	1.56
		GSM1900	0.98	0.55	0.28	
	WCDMA	Band V	0.93	0.91	0.34	
		Band IV	0.93	**1.03**	0.84	
		Band II	0.84	0.83	0.89	
	LTE	Band 12	1.00	0.77	0.39	
		Band 17	**1.10**	0.80	0.48	
		Band 26	0.93	0.67	0.39	
		Band 5	1.07	0.70	0.44	
		Band 4	0.92	0.71	0.79	
		Band 2	0.92	0.70	0.42	
		Band 7	0.94	0.54	0.89	
		Band 38	0.95	0.59	0.54	
		Band 41	0.93	0.38	0.55	
	5G NR	n5	0.74	0.71	0.46	
		n7	0.91	0.53	0.81	
		n38	0.97	0.60	0.81	
		n41	0.82	0.49	1.01	
		n77	1.09	0.33	1.00	
		n78	0.96	0.36	**1.03**	
DTS	WLAN	2.4GHz WLAN	**1.10**	0.28	0.29	1.54
NII		5GHz WLAN	1.07	0.28	0.37	1.56
DSS	Bluetooth	2.4GHz Bluetooth	1.09	0.24	<0.10	1.56

Highest 10g SAR Summary				
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)
Licensed	GSM	GSM850	0.87	3.79
	WCDMA	Band IV	**2.64**	
		Band II	2.36	
	LTE	Band 12	2.56	
		Band 17	2.28	
		Band 26	2.41	
		Band 5	2.11	
		Band 4	2.04	
		Band 2	1.93	
		Band 7	2.63	
		Band 38	1.46	
	5G NR	n5	1.22	
		n7	2.12	
		n38	1.86	
		n41	2.29	
		n77	1.92	
		n78	1.94	
NII	WLAN	5GHz WLAN	1.47	3.79
Date of Testing:			2022/1/11 ~ 2022/2/6	

Declaration of Conformity:
The test results with all measurement uncertainty excluded are 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.

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) 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.

2. Administration Data

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-SZ SAR02-SZ	CN1256	421272

Applicant	
Company Name	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer	
Company Name	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- 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 616217 D04 SAR for laptop and tablets v01r02
- 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

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Phone
Brand Name	POCO
Model Name	22011211G
FCC ID	2AFZZ211G
IMEI Code	SIM1: 860000050059822 SIM2: 860000050059830
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 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 17: 704 MHz ~ 716 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR : CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 2.4GHz 802.11ax HE WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC:ASK
HW Version	P2
SW Version	MIUI 13
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.
EUT Stage	Identical Prototype
Remark: 1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE	

operation.
2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
3. This device 2.4GHz WLAN/5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only).
4. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
5. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.
6. There are two types of EUT, they are single SIM card mobile and dual SIM card mobile, according to the differences, we choose dual SIM card mobile to perform full test.
7. There are three samples. sample 1 is 1st source memory for Micron of 12G+256G, sample 2 is 2nd source memory for Samsung of 12G+256G, and sample 3 is 8G+128G. According to the differences, we choose sample 1 to perform full test.
8. The device implements Proximity sensors/receiver detect mechanism trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table. Full power table and reduced power table (DSI 0: receiver on head power; DSI 1: P-Sensor on Body-worn/extremity power; DSI 4: hotspot on power; DSI3: P-Sensor off).
9. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head.
10. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
11. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
12. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
13. For 5GNR FDD/TDD supports SCS15KHz and SCS30KHz, after verification for 30KHz at FDD power level is less than 15KHz at FDD power level, also verification for 15KHz at TDD power level is less than 30KHz at TDD power level, so only show 15KHz at FDD power and 30KHz at TDD power, and chose higher power which is SCS15KHz for FDD bands and SCS30KHz for TDD bands to perform SAR testing.
14. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
15. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
16. For 5GNR EN-DC mode, standalone SAR performed for 5GNR band with the maximum power, EN-DC SAR summed 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
17. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n5	FDD	15	5, 10, 15, 20
			30	10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
			30	10, 15, 20, 25, 30, 40, 50
	n78	TDD	15	10, 15, 20, 25, 30, 40, 50
			30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
SA	n5	FDD	15	5, 10, 15, 20
			30	10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
			30	10, 15, 20, 25, 30, 40, 50
	n38	TDD	15	5, 10, 15, 20, 25, 30, 40
			30	10, 15, 20, 25, 30, 40
	n41	TDD	15	10, 15, 20, 30, 40, 50
			30	10, 15, 20, 30, 40, 50, 60, 80, 90, 100
	n77	TDD	15	10, 15, 20, 25, 30, 40, 50
			30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	15	10, 15, 20, 25, 30, 40, 50
			30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100

4.2 General LTE SAR Test and Reporting Considerations

<table>
<tr><th colspan="2">Summarized necessary items addressed in KDB 941225 D05 v02r05</th></tr>
<tr><td>FCC ID</td><td>2AFZZ211G</td></tr>
<tr><td>Equipment Name</td><td>Mobile Phone</td></tr>
<tr><td>Operating Frequency Range of each LTE transmission band</td><td>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 17: 704 MHz ~ 716 MHz
LTE Band 26: 814 MHz ~ 849 MHz
LTE Band 38: 2570 MHz ~ 2620 MHz
LTE Band 41: 2496 MHz ~ 2690 MHz</td></tr>
<tr><td>Channel Bandwidth</td><td>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 17: 5MHz, 10MHz
LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz
LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz</td></tr>
<tr><td>uplink modulations used</td><td>QPSK / 16QAM / 64QAM / 256QAM</td></tr>
<tr><td>LTE Voice / Data requirements</td><td>Voice and Data</td></tr>
<tr><td>LTE Release Version</td><td>R16, Cat18</td></tr>
<tr><td>CA Support</td><td>Supported, Uplink and Downlink</td></tr>
<tr><td>LTE MPR permanently built-in by design</td><td>
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3
<table>
<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>
</td></tr>
<tr><td>LTE A-MPR</td><td>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)</td></tr>
<tr><td>Spectrum plots for RB configuration</td><td>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.</td></tr>
<tr><td>Power reduction applied to satisfy SAR compliance</td><td>Yes, when operating in Proximity sensors/receiver detect mechanism, head/body-worn/ hotspot/extremity will trigger reduced power for some WWAN bands, trigger reduction power applied to satisfy SAR compliance , the detail please referred to section 13.</td></tr>
<tr><td>LTE Carrier Aggregation Combinations</td><td>Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 13.</td></tr>
<tr><td>LTE Carrier Aggregation Additional Information</td><td>1. This device supports LTE Carrier Aggregation (CA) in the uplink for 7C/38C/CA_4A-7A with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance.
2. This device supports maximum of 3 carriers in the downlink and 2 carriers in the uplink.</td></tr>
</table>

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)				
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)				
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)				
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 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 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)		
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 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				

4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz
Channel Bandwidth	For SCS15KHz 5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz, 50MHz 5G NR n38: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz 5G NR n41: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz 5G NR n77: 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz, 50MHz 5G NR n78: 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz, 50MHz For SCS30KHz 5G NR n5: 10MHz, 15MHz, 20MHz 5G NR n7: 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz, 50MHz 5G NR n38: 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz 5G NR n41: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz 5G NR n77: 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz 5G NR n78: 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
SCS	FDD: SCS15KHz /SCS30KHz, TDD: SCS15KHz /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 n5	LTE B7
LTE Anchor Bands for n7	LTE B5
LTE Anchor Bands for n78	LTE B2/5/7/38/41

NR Band 5 SCS15KHz								
	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 5 SCS30KHz						
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165800	829	166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5
H	168800	844	168300	841.5	167800	839

NR Band 7 SCS15KHz																
	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 7 SCS30KHz														
	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)
L	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
H	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	509000	2545

NR Band 38 SCS15KHz														
	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	514500	2572.5	515004	2575.02	515502	2577.51	516000	2580	516504	2582.52	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	523500	2617.5	522996	2614.98	522498	2612.49	522000	2610	521496	2607.48	520998	2604.99	519996	2599.98

NR Band 38 SCS30KHz												
	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)
L	515004	2575.02	515502	2577.51	516000	2580	516504	2582.52	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	522996	2614.98	522498	2612.49	522000	2610	521496	2607.48	520998	2604.99	519996	2599.98

NR Band 41 SCS15KHz												
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz	
	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
M	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

NR Band 41 SCS30KHz																				
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		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)
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	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
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	529998	2649.99	528996	2644.98	528000	2640

<3700 MHz ~ 3980 MHz>

NR Band 77 SCS15KHz														
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		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)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01
M	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

NR Band 77 SCS30KHz																				
	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 SCS15KHz														
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		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)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01
M	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

NR Band 78 SCS30KHz																				
	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	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	650000	3750

<3450 MHz ~ 3550 MHz>

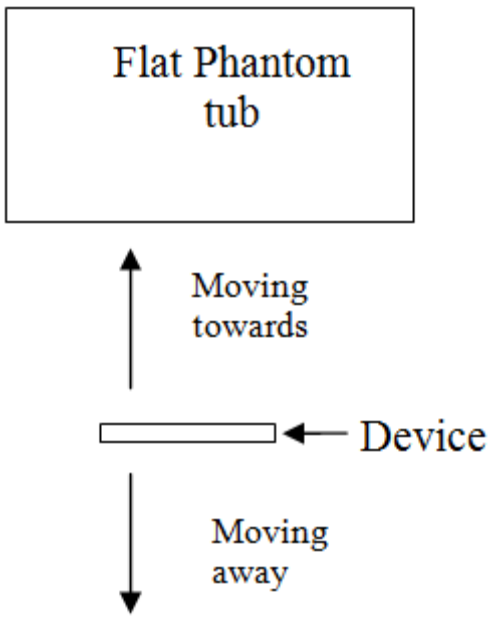
NR Band 77/78(3450MHz ~ 3550MHz)														
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525

NR Band 77/78(3450MHz ~ 3550MHz)																						
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
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		

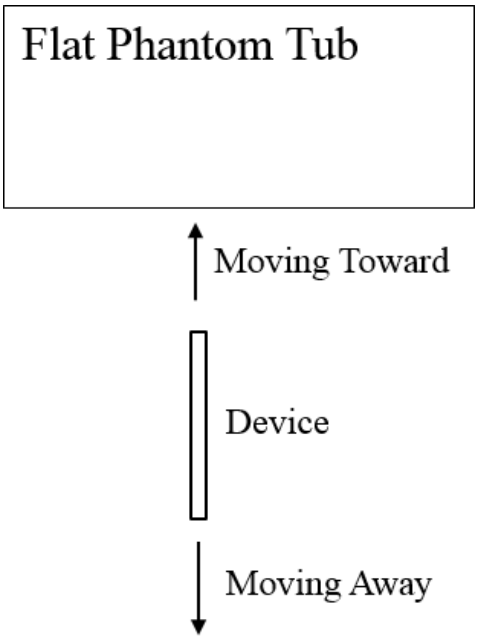
5. Proximity Sensor Triggering Test

5.1 Proximity sensor triggering distances(Per KDB616217§6.2)

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.
2. In the preliminary triggering distance testing, the tissue-equivalent medium for different frequency bands were used for verification; no other frequency bands tissue-equivalent medium was found to result in shortest triggering distance than that for 1900MHz, and the tissue-equivalent medium for 1900MHz was used for formal proximity sensor triggering testing.
3. Capacitive proximity sensor placed coincident with antenna elements at the top/bottom end of the phone are utilized to determine when the device comes in proximity of the user's body or finger or hand at the front or back or bottom or left or top side surface of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna.
4. The proximity sensors used to detect the proximity of the user's body or handheld state at the front or back or bottom or left or right or top side of the device use a detection threshold distance. When front/back/left/ right/top/bottom sides of body or handheld condition is detected reduced power will be active. The data shown in the sections below shows the distance(s).
5. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.



Sensor detection test set-up, front and back sides



Sensor detection test set-up, right / left /top /bottom sides

<P-Sensor>

< Sensor for Ant0/ Ant2 >

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving towards	Moving towards	Moving away	Moving towards	Moving away
Minimum	16	16	16	16	16	16	16	16

<Sensor for Ant3/ Ant4 / Ant5 / Ant6/ Ant8>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	6	6	6	6	6	6	6	6

6. RF Exposure Limits

6.1 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.

6.2 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

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.

7. Specific Absorption Rate (SAR)

7.1 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.

7.2 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:

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

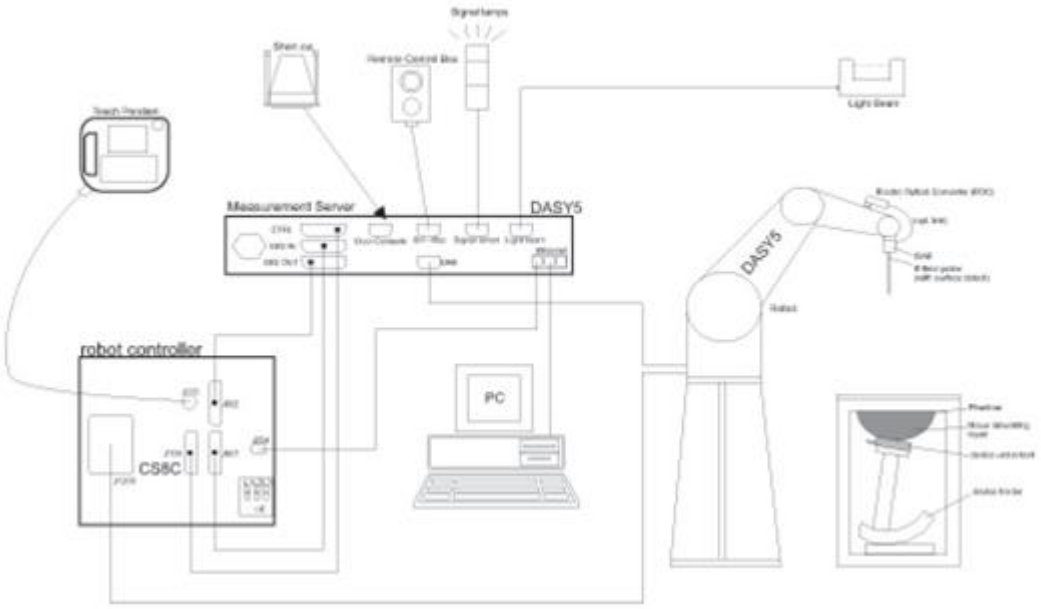
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

8. System Description and Setup

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



- 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 WinXP or Win7 and the DASY5 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.

8.1 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.

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency	10 MHz – >6 GHz Linearity: ±0.2 dB (30 MHz – 6 GHz)
Directivity	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 µW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 µW/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

8.2 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.

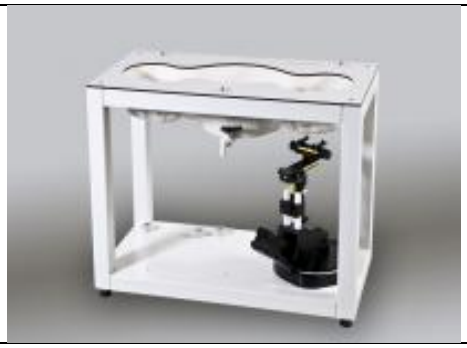
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Photo of DAE

8.3 Phantom

<SAM Twin Phantom>

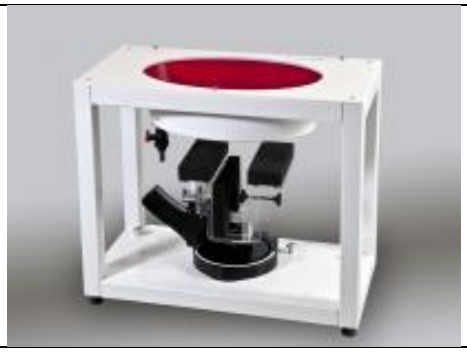
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



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.

8.4 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

9. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
(b) Read the WWAN RF power level from the base station simulator.
(c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
(d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

(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

9.1 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 form 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

9.2 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.

9.3 Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

9.4 Zoom Scan

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

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

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

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 *reported* SAR from the *area scan based 1-g SAR estimation* 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.

9.5 Volume Scan Procedures

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

9.6 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.

10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	Mar. 27, 2019	Mar. 24, 2022
SPEAG	835MHz System Validation Kit	D835V2	4d258	May 07, 2020	May 06, 2023
SPEAG	1750MHz System Validation Kit	D1750V2	1090	Mar. 27, 2019	Mar. 25, 2022
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	Mar. 26, 2019	Mar. 24, 2022
SPEAG	2450MHz System Validation Kit	D2450V2	924	Sep. 02, 2020	Sep. 01, 2023
SPEAG	2600MHz System Validation Kit	D2600V2	1061	Nov. 26, 2020	Nov. 25, 2023
SPEAG	3500MHz System Validation Kit	D3500V2	1076	Apr. 29, 2019	Apr. 14, 2022
SPEAG	3700MHz System Validation Kit	D3700V2	1037	Apr. 29, 2019	Apr. 14, 2022
SPEAG	3900MHz System Validation Kit	D3900V2	1022	Jul. 11, 2019	Jul. 06, 2022
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	Sep. 24, 2019	Sep. 22, 2022
SPEAG	Data Acquisition Electronics	DAE4	1210	Aug. 25, 2021	Aug. 24, 2022
SPEAG	Dosimetric E-Field Probe	EX3DV4	3975	Jun. 07, 2021	Jun. 06, 2022
SPEAG	SAM Twin Phantom	QD 000 P40 CD	1671	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Jul. 14, 2021	Jul. 13, 2022
Anritsu	Radio communication analyzer	MT8821C	6262314715	Jun. 29, 2021	Jun. 28, 2022
Agilent	Wireless Communication Test Set	E5515C	MY50267224	Jul. 14, 2021	Jul. 13, 2022
Keysight	Network Analyzer	E5071C	MY46523671	Oct. 25, 2021	Oct. 24, 2022
Speag	Dielectric Assessment KIT	DAK-3.5	1138	Jun. 09, 2021	Jun. 08, 2022
Agilent	Signal Generator	N5181A	MY50145381	Dec. 28, 2021	Dec. 27, 2022
Anritsu	Power Senor	MA2411B	1306099	Sep. 29, 2021	Sep. 28, 2022
Anritsu	Power Meter	ML2495A	1349001	Sep. 29, 2021	Sep. 28, 2022
Anritsu	Power Sensor	MA2411B	1542004	Dec. 28, 2021	Dec. 27, 2022
Anritsu	Power Meter	ML2495A	1339473	Dec. 28, 2021	Dec. 27, 2022
R&S	Power Sensor	NRP50S	101254	Apr. 09, 2021	Apr. 08, 2022
R&S	Power Sensor	NRP8S	109228	Apr. 09, 2021	Apr. 08, 2022
R&S	CBT BLUETOOTH TESTER	CBT	100963	Dec. 28, 2021	Dec. 27, 2022
R&S	Spectrum Analyzer	FSP7	100818	Jul. 14, 2021	Jul. 13, 2022
TES	Hygrometer	1310	200505600	Jul. 17, 2021	Jul. 16, 2022
Anymetre	Thermo-Hygrometer	JR593	2015030904	Jul. 17, 2021	Jul. 16, 2022
SPEAG	Device Holder	N/A	N/A	N/A	N/A
AR	Amplifier	5S1G4	0333096	Note 1	
mini-circuits	Amplifier	ZVE-3W-83+	599201528	Note 1	
ARRA	Power Divider	A3200-2	N/A	Note 1	
ET Industries	Dual Directional Coupler	C-058-10	N/A	Note 1	
Weinschel	Attenuator 1	3M-10	N/A	Note 1	
Weinschel	Attenuator 2	3M-20	N/A	Note 1	

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
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

11. System Verification

11.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 11.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 11.2.

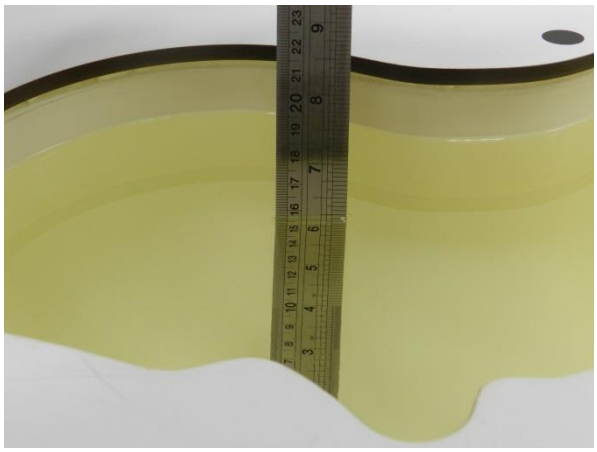


Fig 11.1 Photo of Liquid Height for Head SAR

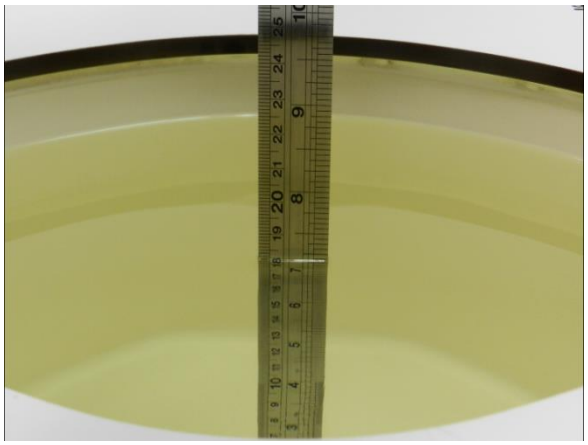


Fig 11.2 Photo of Liquid Height for Body SAR

11.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)
For Head								
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
750	Head	22.6	0.883	40.810	0.89	41.90	-0.79	-2.60	±5	2022/1/11
750	Head	22.7	0.886	41.532	0.89	41.90	-0.45	-0.88	±5	2022/1/28
835	Head	22.2	0.910	42.910	0.90	41.50	1.11	3.40	±5	2022/1/12
835	Head	22.6	0.897	40.781	0.90	41.50	-0.33	-1.73	±5	2022/2/4
1750	Head	22.4	1.377	41.359	1.37	40.10	0.51	3.14	±5	2022/1/13
1750	Head	22.7	1.387	39.860	1.37	40.10	1.24	-0.60	±5	2022/1/27
1900	Head	22.8	1.443	40.030	1.40	40.00	3.07	0.08	±5	2022/1/14
1900	Head	22.5	1.455	40.068	1.40	40.00	3.93	0.17	±5	2022/2/2
2450	Head	22.9	1.822	37.986	1.80	39.20	1.22	-3.10	±5	2022/1/15
2450	Head	22.7	1.823	37.953	1.80	39.20	1.28	-3.18	±5	2022/2/5
2600	Head	22.5	1.995	40.438	1.96	39.00	1.79	3.69	±5	2022/1/16
2600	Head	22.6	1.992	40.445	1.96	39.00	1.63	3.71	±5	2022/1/26
3500	Head	22.3	2.896	38.203	2.91	37.90	-0.48	0.80	±5	2022/1/17
3500	Head	22.6	2.891	36.555	2.91	37.90	-0.65	-3.55	±5	2022/2/6
3700	Head	22.6	3.048	37.958	3.12	37.70	-2.31	0.68	±5	2022/1/18
3700	Head	22.2	3.041	36.281	3.12	37.70	-2.53	-3.76	±5	2022/2/1
3900	Head	22.5	3.208	37.743	3.33	37.51	-3.66	0.62	±5	2022/1/19
3900	Head	22.9	3.198	36.062	3.33	37.51	-3.96	-3.86	±5	2022/1/29
5250	Head	22.8	4.588	36.661	4.71	35.95	-2.59	1.98	±5	2022/1/20
5250	Head	22.5	4.767	36.980	4.71	35.95	1.21	2.87	±5	2022/2/3
5600	Head	22.3	4.996	36.130	5.07	35.50	-1.46	1.77	±5	2022/1/22
5600	Head	22.2	5.211	36.228	5.07	35.50	2.78	2.05	±5	2022/1/30
5750	Head	22.6	5.164	35.867	5.22	35.35	-1.07	1.46	±5	2022/1/25
5750	Head	22.1	5.385	35.954	5.22	35.35	3.16	1.71	±5	2022/1/31

11.3 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.

<1g SAR>

Date	Frequency (MHz)	Tissue Type	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 (%)
2022/1/11	750	Head	250	1087	3975	1210	2.110	8.36	8.44	0.96
2022/1/28	750	Head	250	1087	3975	1210	2.120	8.36	8.48	1.44
2022/1/12	835	Head	250	4d258	3975	1210	2.450	9.44	9.8	3.81
2022/2/4	835	Head	250	4d258	3975	1210	2.410	9.44	9.64	2.12
2022/1/13	1750	Head	250	1090	3975	1210	9.420	36.40	37.68	3.52
2022/1/27	1750	Head	250	1090	3975	1210	9.480	36.40	37.92	4.18
2022/1/14	1900	Head	250	5d170	3975	1210	10.200	39.00	40.8	4.62
2022/2/2	1900	Head	250	5d170	3975	1210	10.200	39.00	40.8	4.62
2022/1/15	2450	Head	250	924	3975	1210	13.900	51.40	55.6	8.17
2022/2/5	2450	Head	250	924	3975	1210	13.400	51.40	53.6	4.28
2022/1/16	2600	Head	250	1061	3975	1210	14.200	56.60	56.8	0.35
2022/1/26	2600	Head	250	1061	3975	1210	14.400	56.60	57.6	1.77
2022/1/17	3500	Head	100	1076	3975	1210	6.670	67.90	66.7	-1.77
2022/2/6	3500	Head	100	1076	3975	1210	6.730	67.90	67.3	-0.88
2022/1/18	3700	Head	100	1037	3975	1210	6.860	68.50	68.6	0.15
2022/2/1	3700	Head	100	1037	3975	1210	6.590	68.50	65.9	-3.80
2022/1/19	3900	Head	100	1022	3975	1210	6.460	70.50	64.6	-8.37
2022/1/29	3900	Head	100	1022	3975	1210	6.360	70.50	63.6	-9.79
2022/1/20	5250	Head	100	1113	3975	1210	8.190	80.50	81.9	1.74
2022/2/3	5250	Head	100	1113	3975	1210	8.510	80.50	85.1	5.71
2022/1/22	5600	Head	100	1113	3975	1210	8.540	83.40	85.4	2.40
2022/1/30	5600	Head	100	1113	3975	1210	8.450	83.40	84.5	1.32
2022/1/25	5750	Head	100	1113	3975	1210	8.210	80.00	82.1	2.63
2022/1/31	5750	Head	100	1113	3975	1210	8.120	80.00	81.2	1.50

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2022/1/11	750	Head	250	1087	3975	1210	1.400	5.65	5.6	-0.88
2022/1/28	750	Head	250	1087	3975	1210	1.400	5.65	5.6	-0.88
2022/1/12	835	Head	250	4d258	3975	1210	1.600	6.13	6.4	4.40
2022/2/4	835	Head	250	4d258	3975	1210	1.570	6.13	6.28	2.45
2022/1/13	1750	Head	250	1090	3975	1210	5.010	19.20	20.04	4.38
2022/1/27	1750	Head	250	1090	3975	1210	5.040	19.20	20.16	5.00
2022/1/14	1900	Head	250	5d170	3975	1210	5.250	20.30	21	3.45
2022/2/2	1900	Head	250	5d170	3975	1210	5.300	20.30	21.2	4.43
2022/1/15	2450	Head	250	924	3975	1210	6.210	24.00	24.84	3.50
2022/2/5	2450	Head	250	924	3975	1210	6.020	24.00	24.08	0.33
2022/1/16	2600	Head	250	1061	3975	1210	5.850	25.10	23.4	-6.77
2022/1/26	2600	Head	250	1061	3975	1210	6.170	25.10	24.68	-1.67
2022/1/17	3500	Head	100	1076	3975	1210	2.500	25.30	25	-1.19
2022/2/6	3500	Head	100	1076	3975	1210	2.530	25.30	25.3	0.00
2022/1/18	3700	Head	100	1037	3975	1210	2.490	24.80	24.9	0.40
2022/2/1	3700	Head	100	1037	3975	1210	2.410	24.80	24.1	-2.82
2022/1/19	3900	Head	100	1022	3975	1210	2.250	24.60	22.5	-8.54
2022/1/29	3900	Head	100	1022	3975	1210	2.220	24.60	22.2	-9.76
2022/1/20	5250	Head	100	1113	3975	1210	2.270	23.10	22.7	-1.73
2022/2/3	5250	Head	100	1113	3975	1210	2.360	23.10	23.6	2.16
2022/1/22	5600	Head	100	1113	3975	1210	2.640	23.80	26.4	2.44
2022/1/30	5600	Head	100	1113	3975	1210	2.350	23.80	23.5	-1.26
2022/1/25	5750	Head	100	1113	3975	1210	2.410	22.80	24.1	5.70
2022/1/31	5750	Head	100	1113	3975	1210	2.320	22.80	23.2	1.75

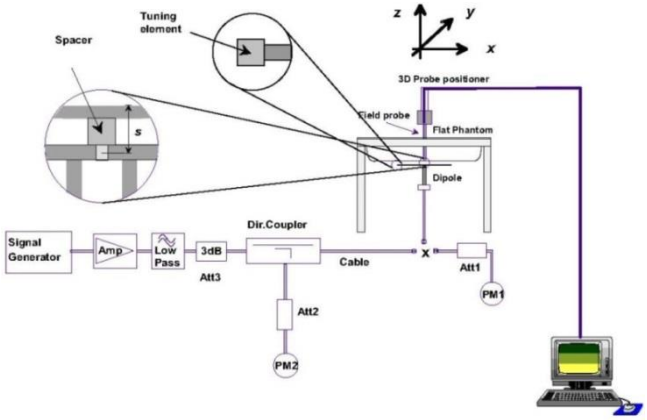


Fig 11.3.1 System Performance Check Setup

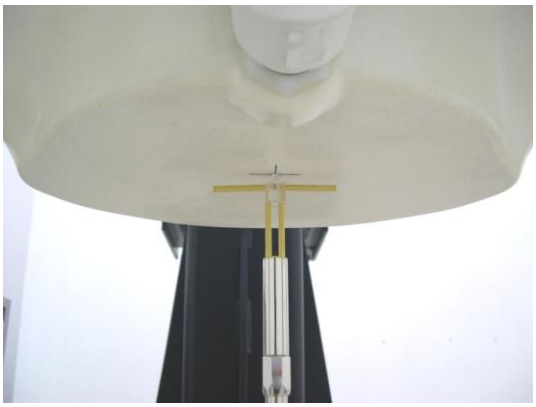


Fig 11.3.2 Setup Photo

12. RF Exposure Positions

12.1 Ear and handset reference point

Figure 12.1.1 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 12.1.2 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 12.1.3). 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 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

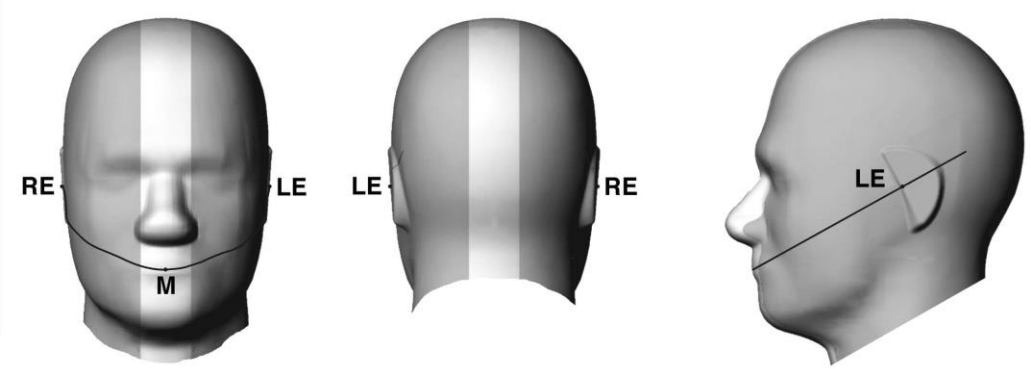


Fig 12.1.1 Front, back, and side views of SAM twin phantom

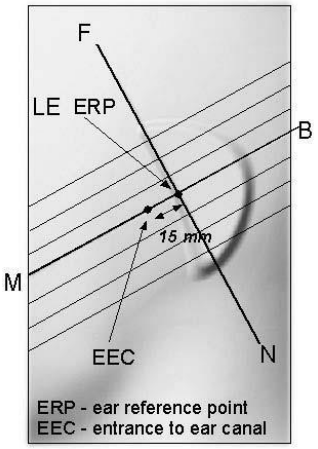


Fig 12.1.2 Close-up side view of phantom showing the ear region.

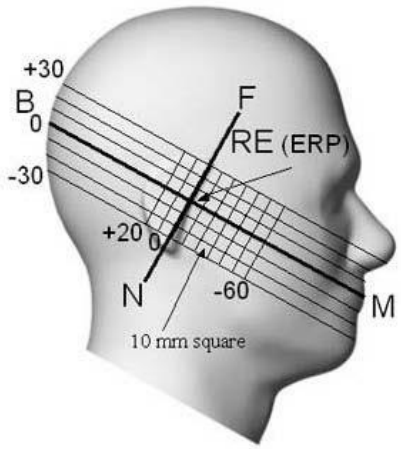


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

12.2 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 wt of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width wb 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 12.2.1). 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 12.2.2), 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 12.2.3), 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 12.2.3. The actual rotation angles should be documented in the test report.

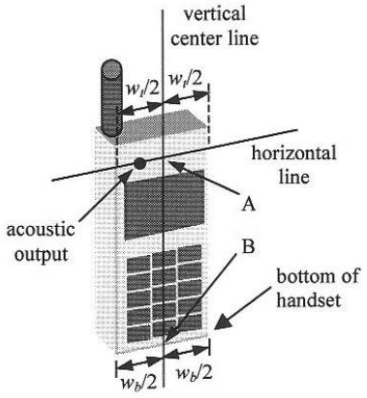


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

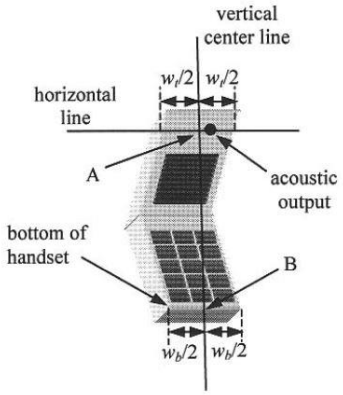


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

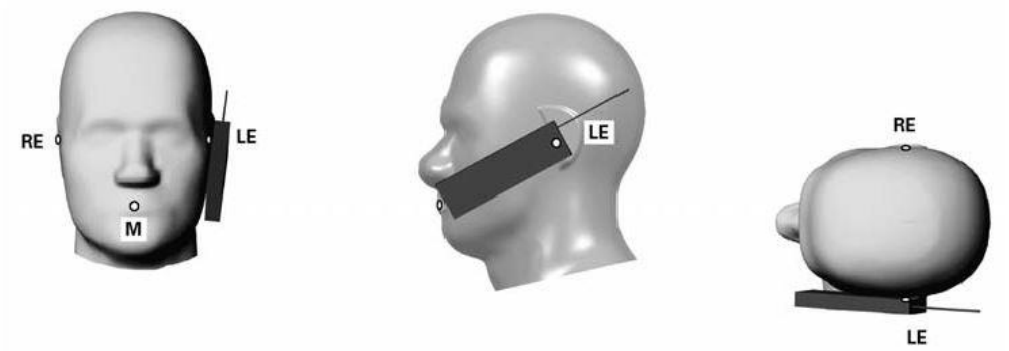


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

12.3 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 12.3.1. 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

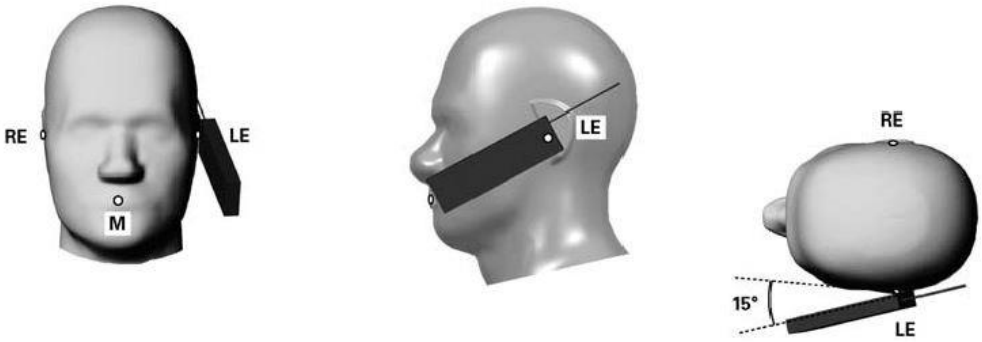


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

12.4 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 12.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a 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 and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

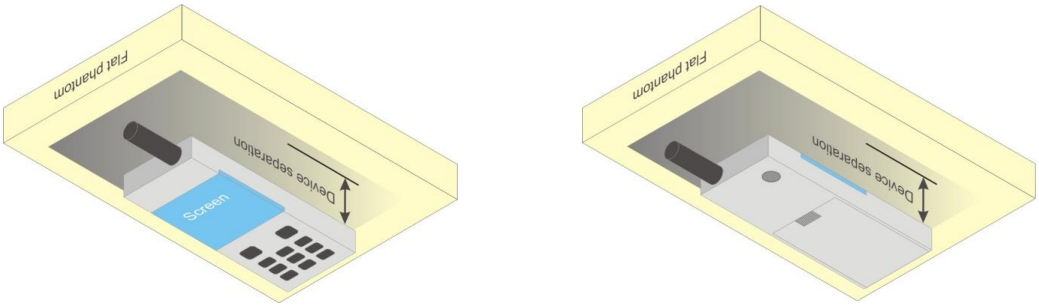


Fig 12.4 Body Worn Position

12.5 Product Specific 10g SAR Exposure

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

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.

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

12.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form 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.

13. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c.

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

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

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

Setup Configuration

HSUPA Setup Configuration:

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

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

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

Note 1: For sub-test 1 to 4, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c. For sub-test 5, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 5/15 with β_{hs} = 5/15 * β_c.

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

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

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

a. The EUT was connected to Base Station referred to the Setup Configuration below
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting:
   i. Set RMC 12.2Kbps + HSDPA mode.
   ii. Set Cell Power = -25 dBm
   iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
   iv. Select HSDPA Uplink Parameters
   v. Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
      a). Subtest 1: β_c/β_d=2/15
      b). Subtest 2: β_c/β_d=12/15
      c). Subtest 3: β_c/β_d=15/8
      d). Subtest 4: β_c/β_d=15/4
   vi. Set Delta ACK, Delta NACK and Delta CQI = 8
   vii. Set Ack-Nack Repetition Factor to 3
   viii. Set CQI Feedback Cycle (k) to 4 ms
   ix. Set CQI Repetition Factor to 2
   x. Power Ctrl Mode = All Up bits
d. The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Proces ses	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

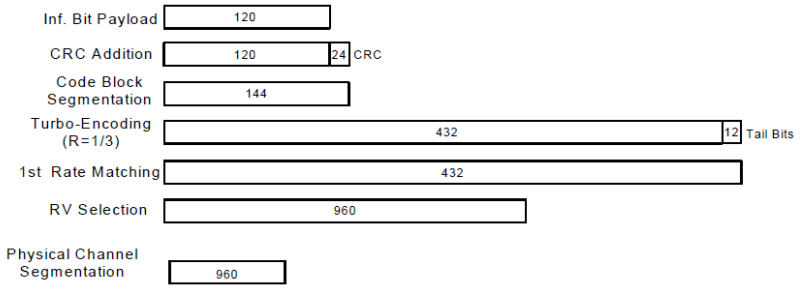


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:

a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting * :
   i. Call Configs = 5.2E:HSPA+:UL with 16QAM
   ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.4, quoted from the TS 34.121-1 s5.2E
   iii. Set Channel Parms
   iv. Set Cell Power = -86 dBm
   v. Set Channel Type = HSPA
   vi. Set UE Target Power =21 dBm
   vii. Power Ctrl Mode= All Up Bits
   viii. Set Manual Uplink DPCH Bc/Bd = Manual
   ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
   x. Set HSPA Conn DL Channel Levels
   xi. Set HS-SCCH Configs
   xii. Set RB Test Mode Setup
   xiii. Set Common HSUPA Parameters
   xiv. Set Serving Grant
   xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
d. The transmitted maximum output power was recorded.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed}1: 30/15 β_{ed}2: 30/15	β_{ed}3: 24/15 β_{ed}4: 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c.
Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default.
Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.
Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.

Setup Configuration

<WCDMA Conducted Power>

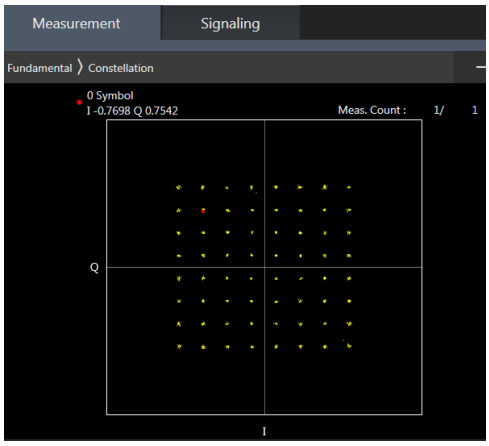
General Note:

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 / DC-HSDPA / HSPA+ is ≤ ¼ 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 / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+.

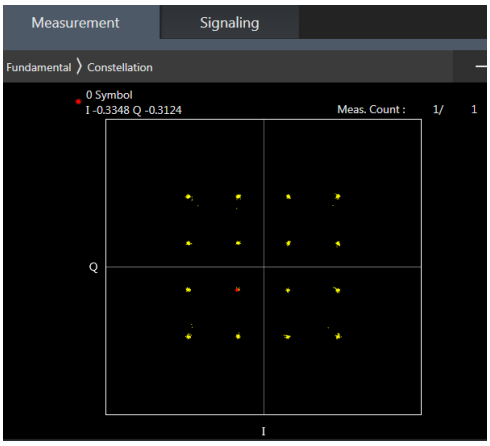
<LTE Conducted Power>

General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > not ½ 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/64QAM/256QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



64QAM



16QAM

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

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

a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations

b. "special subframe S" contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS

c. Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

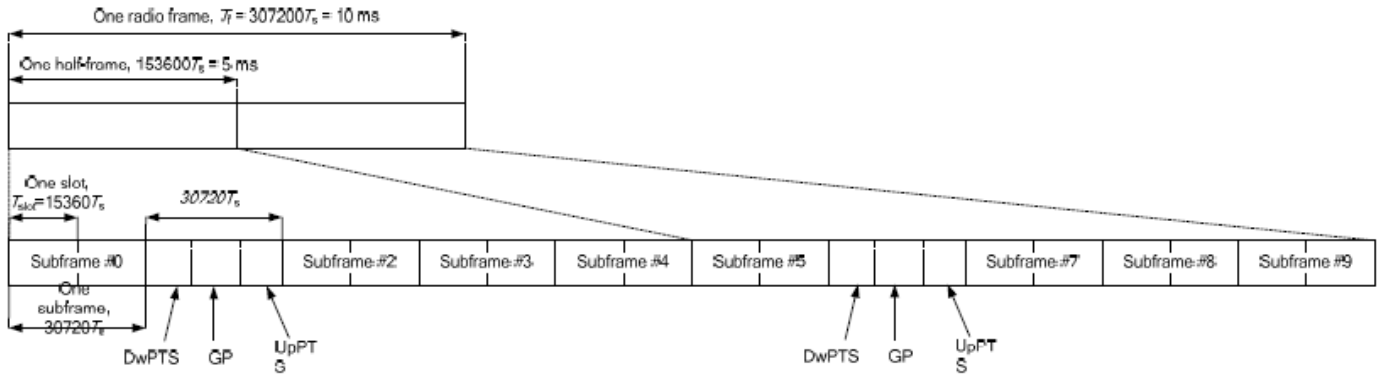


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

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

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

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

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

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

The highest duty factor is resulted from:

i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subfames, uplink operation is in 3 uplink subframes and 1 special subframe.

ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink

iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.167)/5 = 63.3%

iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.143)/5 = 62.9%

v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

<LTE Carrier Aggregation>

General Note:

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
3. The gray color table is covered by other combinations and no need to verify power.

2CC Downlink Carrier Aggregation				3CC Downlink Carrier Aggregation			
Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset
1	CA_2C			1	CA_2A-4A-5A		
2	CA_2A-4A		1-3CC	2	CA_2A-7A-7A		
3	CA_2A-5A		1-3CC	3	CA_2A-7C		
4	CA_2A-7A		2-3CC	4	CA_4A-7C	4A,7C	
5	CA_4A-5A	4A		5	CA_5A-7A-7A	7A-7A	
6	CA_4A-7A	4A,7A		6	CA_5A-7C	7C	
7	CA_5A-7A	7A	5-3CC	7	CA_41A-41A-41A	41A-41A-41A	
8	CA_7A-7A	7A-7A					
9	CA_7C	7C					
10	CA_38C	38C					
11	CA_41A-41A	41A-41A	7-3CC				
12	CA_41C	41C					
13	CA_5A-41A	41A					

LTE Carrier Aggregation Conducted Power (Downlink)

i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.

ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.

iii. The device supports downlink three carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.

iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

v. For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.

vi. 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.

vii. 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.

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

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Bands 4 / 7 / 38 / 41 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC Guidance, SAR for downlink 4x4 MIMO was not needed since the maximum average output power in 4x4 downlink MIMO mode was not > 0.25 dB higher than the maximum output power with downlink 4x4 MIMO inactive. When carrier aggregation is applicable, power measurements were performed with the downlink carrier aggregation and 4x4 DL MIMO active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

4X4 MIMO	WWAN Band
	LTE Band: B4 / B7 / B38 / B41

LTE Carrier Aggregation Conducted Power (Uplink)

<Intra-band>

2CC Uplink Carrier Aggregation		
Number	Combination	ANT TX
1	7C	Ant 0/2/3/5
2	38C	Ant 0/2/3/5

General Note:

i. The device supports intra-band uplink carrier aggregation for LTE B7/B38 with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.

ii. The device supports 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 the 3GPP requirement.

iii. 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.

iv. 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.

<Inter-band>

2CC Uplink Carrier Aggregation		
Number	Combination	ANT TX
1	4A-7A	Band 4:ANT0/5, Band 7: ANT2/3
	4A-7A	Band 4: ANT2/3, Band 7: ANT0/5

General Note:

1. For Inter-band CA co-located SAR analysis is performed using standalone SAR summed together and they are more conservatively for inter band CA.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n5, n7, n78 supports NSA operations.
2. 5G NR n5, n7, n38, n41, n77, n78 supports SA operations.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
   a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s PI/2 BPSK and the reported SAR for the DFT-s PI/2 BPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
   b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
   c. SAR testing start with the largest channel bandwidth and measure SAR 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
   d. 50% RB allocation for PI/2 BPSK SAR testing follows 1RB PI/2 BPSK allocation procedure
   e. PI/2 BPSK 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
   f. QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
   g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.
5. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
6. NSA and SA mode should perform SAR separately. For the maximum power of SA mode is the same as NSA total power level, so SA standalone total power level SAR can represent NSA mode SAR.
7. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
8. For 5G NR EN-DC mode, standalone SAR performed for 5GNR band with the maximum power, EN-DC SAR summed 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
9. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.

<3GPP 38.101 MPR for EN-DC>

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

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

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

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

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

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

Inter Band EN-DC Configuration

FR1	ENDC	NR TX	LTE TX
n5	DC_7A-n5A	Ant 0	Ant 0/2/3/5
		Ant 1	
n7	DC_5A-n7A	Ant 0	Ant 0/1
		Ant 2	
		Ant 3	
		Ant 5	
n78	DC_2A-n78A	Ant 4	Ant 2/3
		Ant 6	
		Ant 7	
		Ant 8	
	DC_5A-n78A	Ant 4	Ant 0/1
		Ant 6	
		Ant 7	
		Ant 8	
	DC_7A-n78A	Ant 4	Ant 0/2/3/5
		Ant 6	
		Ant 7	
		Ant 8	
	DC_38A-n78A	Ant 4	Ant 0/2/3/5
		Ant 6	
		Ant 7	
		Ant 8	
	DC_41A-n78A	Ant 4	Ant 0/2/3/5
		Ant 6	
		Ant 7	
		Ant 8	

Inter Band CA Configuration:

Band	NR TX	NR TX
CA_n5A-n78A	Ant 0	Ant 4/6/7/8
	Ant 1	
CA_n7A-n78A	Ant 0	Ant 4/6/7/8
	Ant 2	
	Ant 3	
	Ant 5	
CA_n38A-n78A	Ant 0	Ant 4/6/7/8
	Ant 2	
	Ant 3	
	Ant 5	

<WLAN Conducted Power>

General Note:

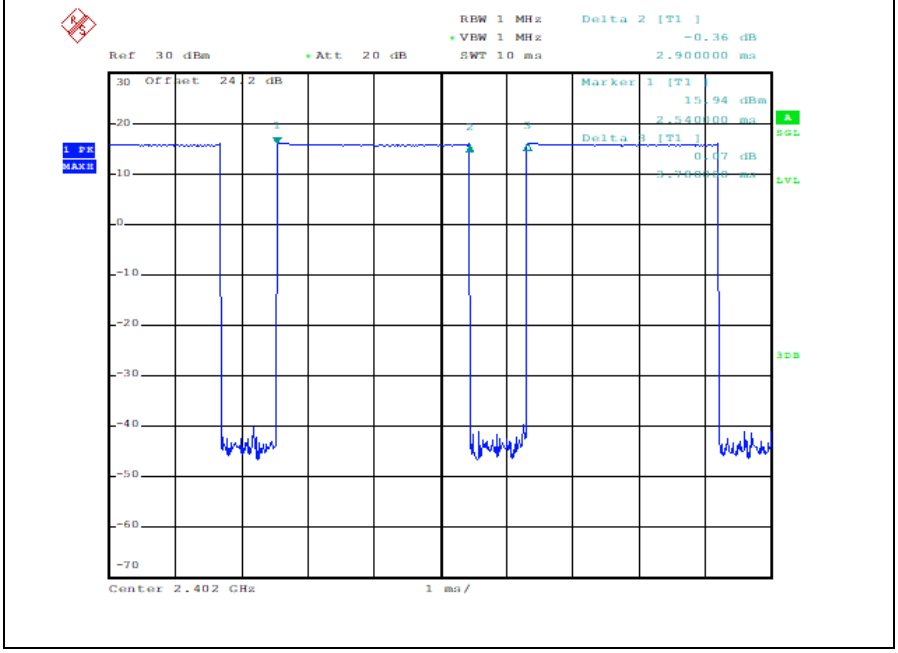
1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
   a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
   b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next 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.
   c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
6. The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle is 76.72 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to100% for Bluetooth reported SAR calculation

Bluetooth time-domain plot



14. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For SAR testing of BT/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 BT/WLAN: 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 when the measured SAR is ≥ 0.8W/kg. 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. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.
5. There are two types of EUT, they are single SIM card mobile and dual SIM card mobile, according to the differences, we choose SIM card mobile to perform full test.
6. The device implements Proximity sensors/receiver detect mechanism trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table. Full power table and reduced power table ((DSI 0: receiver on head power; DSI 1: P-Sensor on Body-worn/extremity power; DSI 4: hotspot on power; DSI3: P-Sensor off).
7. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head.
8. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
9. For 5G NR EN-DC mode, standalone SAR performed for 5GNR band with the maximum power, EN-DC SAR summed 5GNR standalone SAR and LTE standalone SAR , the result of EN-DC SAR is more conservatively.
10. NSA and SA mode should perform SAR separately. For the maximum power of SA mode is the same as NSA total power level, so SA standalone total power level SAR can represent NSA mode SAR.
11. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
12. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
13. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
14. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
    a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850, WCDMA Band II/IV, LTE Band 2/4/7/12/17/26/38, 5GNR n7/n38/n41/n77/n78, therefore product specific 10g SAR is necessary.

b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.

15. For LTE anchors in EN-DC combinations, due to the same configuration as standalone LTE Bands, always chose worse position of standalone LTE Bands to perform SAR testing.
16. For distance SAR and non-distance SAR, always chose higher SAR to do co-located analysis.
17. The following table“n/a”means the measured SAR is too small to find the 1g or 10g cube SAR.

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.
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 ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA 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 / DC-HSDPA /HSPA+ is ≤ ¼ 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 / DC-HSDPA /HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA /HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA /HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA /HSPA+.

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/64QAM/256QAM output power for each RB allocation configuration is > not ½ 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/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 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.

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
   a. SAR testing start with the largest channel bandwidth and measure SAR 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.
   b. 50% RB allocation for PI/2 BPSK SAR testing follows 1RB PI/2 BPSK allocation procedure
   c. PI/2 BPSK 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.
   d. QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM /64QAM/256QAM SAR testing are not required.
   e. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
   f. For 5G FR1 n41/n77 the maximum bandwidth does not support three non-overlapping channels, 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.

WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. 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.
4. 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.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.

15.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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	GPRS 4 TX slots	Right Cheek	0mm	Ant 0	DSI 0	Full	189	836.4	26.33	28.00	1.469	-0.1	0.141	0.207
	GSM850	GPRS 4 TX slots	Right Tilted	0mm	Ant 0	DSI 0	Full	189	836.4	26.33	28.00	1.469	-0.19	0.079	0.116
	GSM850	GPRS 4 TX slots	Left Cheek	0mm	Ant 0	DSI 0	Full	189	836.4	26.33	28.00	1.469	-0.03	0.203	0.298
	GSM850	GPRS 4 TX slots	Left Tilted	0mm	Ant 0	DSI 0	Full	189	836.4	26.33	28.00	1.469	0.09	0.072	0.106
	GSM850	GPRS 4 TX slots	Right Cheek	0mm	Ant 1	DSI 0	Reduced	189	836.4	21.12	23.00	1.542	-0.01	0.351	0.541
	GSM850	GPRS 4 TX slots	Right Tilted	0mm	Ant 1	DSI 0	Reduced	189	836.4	21.12	23.00	1.542	0.13	0.046	0.071
01	GSM850	GPRS 4 TX slots	Left Cheek	0mm	Ant 1	DSI 0	Reduced	189	836.4	21.12	23.00	1.542	-0.05	0.518	**0.799**
	GSM850	GPRS 4 TX slots	Left Tilted	0mm	Ant 1	DSI 0	Reduced	189	836.4	21.12	23.00	1.542	-0.16	0.061	0.094
	GSM1900	GPRS 4 TX slots	Right Cheek	0mm	Ant 2	DSI 0	Full	661	1880	23.66	25.00	1.361	-0.16	0.083	0.113
	GSM1900	GPRS 4 TX slots	Right Tilted	0mm	Ant 2	DSI 0	Full	661	1880	23.66	25.00	1.361	-0.04	0.045	0.061
	GSM1900	GPRS 4 TX slots	Left Cheek	0mm	Ant 2	DSI 0	Full	661	1880	23.66	25.00	1.361	-0.05	0.060	0.082
	GSM1900	GPRS 4 TX slots	Left Tilted	0mm	Ant 2	DSI 0	Full	661	1880	23.66	25.00	1.361	-0.1	0.042	0.057
	GSM1900	GPRS 4 TX slots	Right Cheek	0mm	Ant 5	DSI 0	Reduced	661	1880	18.32	20.00	1.472	-0.03	0.666	**0.981**
02	GSM1900	GPRS 4 TX slots	Right Tilted	0mm	Ant 5	DSI 0	Reduced	661	1880	18.32	20.00	1.472	0.02	0.478	0.704
	GSM1900	GPRS 4 TX slots	Left Cheek	0mm	Ant 5	DSI 0	Reduced	661	1880	18.32	20.00	1.472	0.05	0.375	0.552
	GSM1900	GPRS 4 TX slots	Left Tilted	0mm	Ant 5	DSI 0	Reduced	661	1880	18.32	20.00	1.472	0.08	0.413	0.608
	GSM1900	GPRS 4 TX slots	Right Cheek	0mm	Ant 5	DSI 0	Reduced	512	1850.2	18.21	20.00	1.510	0.11	0.581	0.877
	GSM1900	GPRS 4 TX slots	Right Cheek	0mm	Ant 5	DSI 0	Reduced	810	1909.8	18.31	20.00	1.476	0.04	0.652	0.962

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 V	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 0	Full	4182	836.4	23.78	25.00	1.324	0.1	0.195	0.258
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 0	Full	4182	836.4	23.78	25.00	1.324	0.04	0.111	0.147
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 0	Full	4182	836.4	23.78	25.00	1.324	-0.14	0.170	0.225
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 0	Full	4182	836.4	23.78	25.00	1.324	-0.06	0.079	0.105
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	Reduced	4182	836.4	19.06	21.00	1.563	0.05	0.280	0.438
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 0	Reduced	4182	836.4	19.06	21.00	1.563	0.07	0.006	0.009
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 0	Reduced	4182	836.4	19.06	21.00	1.563	-0.16	0.558	0.872
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 0	Reduced	4182	836.4	19.06	21.00	1.563	0.08	0.044	0.069
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 0	Reduced	4132	826.4	19.05	21.00	1.567	0.14	0.537	0.841
03	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 0	Reduced	4233	846.6	19.01	21.00	1.581	-0.06	0.590	**0.933**
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 0	Full	1413	1732.6	24.11	25.00	1.227	0.19	0.268	0.329
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI 0	Full	1413	1732.6	24.11	25.00	1.227	0.18	0.094	0.115
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 0	Full	1413	1732.6	24.11	25.00	1.227	-0.11	0.153	0.188
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI 0	Full	1413	1732.6	24.11	25.00	1.227	-0.13	0.090	0.110
04	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 0	Reduced	1413	1732.6	17.34	19.00	1.466	0.07	0.634	**0.929**
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 5	DSI 0	Reduced	1413	1732.6	17.34	19.00	1.466	-0.02	0.523	0.766
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 5	DSI 0	Reduced	1413	1732.6	17.34	19.00	1.466	-0.15	0.367	0.538
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 5	DSI 0	Reduced	1413	1732.6	17.34	19.00	1.466	0.08	0.391	0.573
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 0	Reduced	1312	1712.4	17.18	19.00	1.521	0.13	0.536	0.815
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 0	Reduced	1513	1752.6	17.26	19.00	1.493	0.14	0.579	0.864
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 0	Full	9400	1880	24.11	25.00	1.227	0.19	0.297	0.365
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI 0	Full	9400	1880	24.11	25.00	1.227	-0.02	0.126	0.155
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 0	Full	9400	1880	24.11	25.00	1.227	0.15	0.174	0.214
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI 0	Full	9400	1880	24.11	25.00	1.227	0.11	0.133	0.163
05	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 0	Reduced	9400	1880	17.36	19.00	1.459	-0.02	0.577	**0.842**
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 5	DSI 0	Reduced	9400	1880	17.36	19.00	1.459	0.05	0.446	0.651
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 5	DSI 0	Reduced	9400	1880	17.36	19.00	1.459	0.06	0.316	0.461
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 5	DSI 0	Reduced	9400	1880	17.36	19.00	1.459	0.03	0.359	0.524
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 0	Reduced	9262	1852.4	17.35	19.00	1.462	-0.13	0.409	0.598
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 0	Reduced	9538	1907.6	17.27	19.00	1.489	0.03	0.557	0.830

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	23095	707.5	25.15	25.70	1.135	-0.04	0.079	0.090
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	23095	707.5	25.15	25.70	1.135	0.05	0.050	0.057
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	23095	707.5	25.15	25.70	1.135	-0.04	0.096	0.109
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	23095	707.5	25.15	25.70	1.135	-0.19	0.065	0.074
	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	DSI 0	Full	23095	707.5	24.12	24.70	1.143	0.08	0.063	0.072
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	DSI 0	Full	23095	707.5	24.12	24.70	1.143	-	n/a	n/a
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	DSI 0	Full	23095	707.5	24.12	24.70	1.143	0.02	0.086	0.098
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	DSI 0	Full	23095	707.5	24.12	24.70	1.143	-	n/a	n/a
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.18	21.70	1.127	-0.02	0.499	0.562
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.18	21.70	1.127	0.11	0.072	0.081
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.18	21.70	1.127	-0.19	0.667	0.752
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.18	21.70	1.127	-0.05	0.094	0.106
	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.10	21.70	1.148	-0.09	0.512	0.588
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.10	21.70	1.148	0.03	0.072	0.083
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.10	21.70	1.148	-0.15	0.762	0.875
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.10	21.70	1.148	-0.13	0.108	0.124
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23060	704	21.06	21.70	1.159	0.1	0.670	0.776
06	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23130	711	21.04	21.70	1.164	0.12	0.856	**0.996**
	LTE Band 12	10M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.09	21.70	1.151	0.04	0.714	0.822
	LTE Band 17	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	23790	710	25.15	25.70	1.135	-0.19	0.079	0.090
	LTE Band 17	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	23790	710	25.15	25.70	1.135	-0.04	0.045	0.051
	LTE Band 17	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	23790	710	25.15	25.70	1.135	0.03	0.107	0.121
	LTE Band 17	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	23790	710	25.15	25.70	1.135	-0.17	0.047	0.053
	LTE Band 17	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	DSI 0	Full	23790	710	24.15	24.70	1.135	0.01	0.069	0.078
	LTE Band 17	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	DSI 0	Full	23790	710	24.15	24.70	1.135	-	n/a	n/a
	LTE Band 17	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	DSI 0	Full	23790	710	24.15	24.70	1.135	-0.07	0.093	0.106
	LTE Band 17	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	DSI 0	Full	23790	710	24.15	24.70	1.135	-	n/a	n/a
	LTE Band 17	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	23790	710	21.70	22.20	1.122	-0.07	0.367	0.412
	LTE Band 17	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	23790	710	21.70	22.20	1.122	-0.06	0.054	0.061
	LTE Band 17	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23790	710	21.70	22.20	1.122	-0.04	0.816	0.916
	LTE Band 17	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	23790	710	21.70	22.20	1.122	0.13	0.070	0.079
	LTE Band 17	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23780	709	21.63	22.20	1.140	-0.13	0.802	0.914
	LTE Band 17	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23800	711	21.61	22.20	1.146	-0.03	0.847	0.970
	LTE Band 17	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	23790	710	21.68	22.20	1.127	-0.05	0.392	0.442
	LTE Band 17	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	23790	710	21.68	22.20	1.127	-0.07	0.062	0.070
	LTE Band 17	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23790	710	21.68	22.20	1.127	0.13	0.957	1.079
	LTE Band 17	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	23790	710	21.68	22.20	1.127	-0.19	0.077	0.087
	LTE Band 17	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23780	709	21.65	22.20	1.135	-0.09	0.941	1.068
07	LTE Band 17	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23800	711	21.67	22.20	1.130	0.01	0.972	**1.098**
	LTE Band 17	10M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23790	710	21.63	22.20	1.140	0.09	0.841	0.959
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	26865	831.5	25.21	25.70	1.119	0.04	0.195	0.218
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	26865	831.5	25.21	25.70	1.119	0.17	0.124	0.139
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	26865	831.5	25.21	25.70	1.119	0.17	0.216	0.242
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	26865	831.5	25.21	25.70	1.119	0.19	0.098	0.110
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 0	DSI 0	Full	26865	831.5	23.87	24.70	1.211	-0.17	0.169	0.205
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 0	DSI 0	Full	26865	831.5	23.87	24.70	1.211	0.18	0.105	0.127
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 0	DSI 0	Full	26865	831.5	23.87	24.70	1.211	-0.17	0.174	0.211
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 0	DSI 0	Full	26865	831.5	23.87	24.70	1.211	0.07	0.081	0.098
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	21.88	22.70	1.208	0.14	0.352	0.425
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	26865	831.5	21.88	22.70	1.208	-0.15	0.048	0.058
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	21.88	22.70	1.208	0.05	0.672	0.812
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	26865	831.5	21.88	22.70	1.208	0.05	0.057	0.069

	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	26765	821.5	21.87	22.70	1.211	-0.12	0.633	0.766
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	26965	841.5	21.81	22.70	1.227	-0.12	0.733	0.900
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	21.85	22.70	1.216	0.17	0.382	0.465
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	26865	831.5	21.85	22.70	1.216	-0.14	0.045	0.055
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	21.85	22.70	1.216	-0.07	0.683	0.831
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	26865	831.5	21.85	22.70	1.216	0.15	0.062	0.075
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	26765	821.5	21.79	22.70	1.233	-0.07	0.721	0.889
08	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	26965	841.5	21.75	22.70	1.245	-0.11	0.743	**0.925**
	LTE Band 26	15M	QPSK	75	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	21.60	22.70	1.288	0.09	0.671	0.864
	LTE Band 5	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	20525	836.5	25.05	25.70	1.161	0.18	0.200	0.232
	LTE Band 5	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	20525	836.5	25.05	25.70	1.161	-0.05	0.124	0.144
	LTE Band 5	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	20525	836.5	25.05	25.70	1.161	-0.07	0.232	0.269
	LTE Band 5	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	20525	836.5	25.05	25.70	1.161	-0.09	0.101	0.117
	LTE Band 5	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	DSI 0	Full	20525	836.5	23.95	24.70	1.189	-0.07	0.157	0.187
	LTE Band 5	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	DSI 0	Full	20525	836.5	23.95	24.70	1.189	0.14	0.096	0.114
	LTE Band 5	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	DSI 0	Full	20525	836.5	23.95	24.70	1.189	0.05	0.180	0.214
	LTE Band 5	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	DSI 0	Full	20525	836.5	23.95	24.70	1.189	-0.16	0.080	0.095
	LTE Band 5	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	20.58	21.20	1.153	0.17	0.275	0.317
	LTE Band 5	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	20.58	21.20	1.153	0.05	0.031	0.036
	LTE Band 5	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	20.58	21.20	1.153	-0.16	0.529	0.610
	LTE Band 5	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	20.58	21.20	1.153	0.16	0.061	0.070
	LTE Band 5	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	20.48	21.20	1.180	0.18	0.314	0.371
	LTE Band 5	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	20.48	21.20	1.180	-0.05	0.046	0.054
	LTE Band 5	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	20.48	21.20	1.180	-0.03	0.681	0.804
	LTE Band 5	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	20.48	21.20	1.180	-0.19	0.067	0.079
	LTE Band 5	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20450	829	20.46	21.20	1.186	0.04	0.609	0.722
09	LTE Band 5	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20600	844	20.40	21.20	1.202	-0.05	0.892	**1.072**
	LTE Band 5	10M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	20.44	21.20	1.191	-0.07	0.671	0.799
	LTE Band 4	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	20175	1732.5	23.68	24.50	1.208	-0.05	0.146	0.176
	LTE Band 4	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	20175	1732.5	23.68	24.50	1.208	0.02	0.086	0.104
	LTE Band 4	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	20175	1732.5	23.68	24.50	1.208	-0.05	0.118	0.143
	LTE Band 4	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	20175	1732.5	23.68	24.50	1.208	0.18	0.059	0.071
	LTE Band 4	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full	20175	1732.5	22.53	23.50	1.250	0.1	0.103	0.129
	LTE Band 4	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full	20175	1732.5	22.53	23.50	1.250	-0.06	0.067	0.084
	LTE Band 4	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full	20175	1732.5	22.53	23.50	1.250	-0.16	0.090	0.113
	LTE Band 4	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full	20175	1732.5	22.53	23.50	1.250	0.04	0.049	0.061
	LTE Band 4	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 0	Full	20175	1732.5	25.32	25.50	1.042	0.02	0.226	0.236
	LTE Band 4	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 0	Full	20175	1732.5	25.32	25.50	1.042	-0.18	0.119	0.124
	LTE Band 4	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 0	Full	20175	1732.5	25.32	25.50	1.042	0.15	0.225	0.235
	LTE Band 4	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 0	Full	20175	1732.5	25.32	25.50	1.042	-0.14	0.088	0.092
	LTE Band 4	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	20175	1732.5	24.27	24.50	1.054	-0.12	0.175	0.185
	LTE Band 4	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	20175	1732.5	24.27	24.50	1.054	-0.03	0.098	0.103
	LTE Band 4	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	20175	1732.5	24.27	24.50	1.054	-0.08	0.182	0.192
	LTE Band 4	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	20175	1732.5	24.27	24.50	1.054	0.04	0.071	0.075
	LTE Band 4	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.01	18.20	1.045	0.05	0.601	0.628
	LTE Band 4	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.01	18.20	1.045	-0.06	0.186	0.194
	LTE Band 4	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.01	18.20	1.045	0.01	0.196	0.205
	LTE Band 4	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.01	18.20	1.045	-0.07	0.091	0.095
10	LTE Band 4	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	17.96	18.20	1.057	-0.13	0.872	**0.922**
	LTE Band 4	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	17.96	18.20	1.057	-0.18	0.201	0.212
	LTE Band 4	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	17.96	18.20	1.057	0.16	0.191	0.202
	LTE Band 4	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	17.96	18.20	1.057	-0.16	0.096	0.101
	LTE Band 4	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20050	1720	17.84	18.20	1.086	0.09	0.756	0.821
	LTE Band 4	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20300	1745	17.86	18.20	1.081	0.11	0.826	0.893
	LTE Band 4	20M	QPSK	100	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	17.89	18.20	1.074	0.13	0.793	0.852
	LTE Band 4	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	17.56	18.00	1.107	-0.17	0.738	0.817

	LTE Band 4	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	17.56	18.00	1.107	-0.07	0.444	0.491
	LTE Band 4	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	17.56	18.00	1.107	-0.07	0.453	0.501
	LTE Band 4	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	17.56	18.00	1.107	-0.19	0.434	0.480
	LTE Band 4	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	20050	1720	17.52	18.00	1.117	0.16	0.557	0.622
	LTE Band 4	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	20300	1745	17.50	18.00	1.122	0.01	0.760	0.853
	LTE Band 4	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	17.47	18.00	1.130	-0.16	0.576	0.651
	LTE Band 4	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	17.47	18.00	1.130	-0.04	0.514	0.581
	LTE Band 4	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	17.47	18.00	1.130	-0.09	0.449	0.507
	LTE Band 4	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	17.47	18.00	1.130	0.02	0.440	0.497
	LTE Band 4	20M	QPSK	100	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	17.40	18.00	1.148	0.08	0.654	0.751
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 0	Full	18700	1860	23.81	24.50	1.172	0.07	0.131	0.154
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 0	Full	18700	1860	23.81	24.50	1.172	-0.01	0.104	0.122
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 0	Full	18700	1860	23.81	24.50	1.172	0.16	0.109	0.128
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 0	Full	18700	1860	23.81	24.50	1.172	0.01	0.097	0.114
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	18700	1860	22.73	23.50	1.194	-0.13	0.110	0.131
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	18700	1860	22.73	23.50	1.194	-0.15	0.093	0.111
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	18700	1860	22.73	23.50	1.194	0.05	0.090	0.107
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	18700	1860	22.73	23.50	1.194	-0.07	0.076	0.091
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18700	1860	16.21	17.50	1.346	-0.1	0.535	0.720
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	18700	1860	16.21	17.50	1.346	0.18	0.164	0.221
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	18700	1860	16.21	17.50	1.346	-0.18	0.221	0.297
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	18700	1860	16.21	17.50	1.346	-0.1	0.091	0.122
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18700	1860	16.19	17.50	1.352	-0.17	0.615	0.832
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	18700	1860	16.19	17.50	1.352	-0.01	0.168	0.227
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	18700	1860	16.19	17.50	1.352	0.06	0.300	0.406
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	18700	1860	16.19	17.50	1.352	-0.03	0.097	0.131
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18900	1880	16.17	17.50	1.358	-0.15	0.541	0.735
11	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	19100	1900	16.16	17.50	1.361	-0.11	0.676	**0.920**
	LTE Band 2	20M	QPSK	100	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18700	1860	16.11	17.50	1.377	-0.1	0.646	0.890
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	22.08	23.00	1.236	-0.08	0.179	0.221
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	22.08	23.00	1.236	-0.15	0.120	0.148
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	22.08	23.00	1.236	-0.09	0.249	0.308
	LTE Band 7C	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	21100 +20902	2535 +2515.2	21.50	23.00	1.413	0.04	0.109	0.154
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	22.08	23.00	1.236	-0.07	0.054	0.067
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	21.10	22.00	1.230	0.1	0.144	0.177
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	21.10	22.00	1.230	-0.1	0.099	0.122
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	21.10	22.00	1.230	0.15	0.202	0.249
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	21.10	22.00	1.230	-0.1	0.047	0.058
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	0.1	0.177	0.213
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	0.07	0.108	0.130
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	-0.17	0.207	0.249
	LTE Band 7C	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 0	Full	21100 +20902	2535 +2515.2	23.84	25.00	1.306	0.03	0.189	0.247
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	0.06	0.058	0.070
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	-0.16	0.134	0.162
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	0.12	0.084	0.101
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	-0.13	0.190	0.229
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	0.15	0.047	0.057
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.38	18.20	1.208	0.11	0.636	0.768
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.38	18.20	1.208	-0.07	0.207	0.250
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.38	18.20	1.208	-0.11	0.169	0.204
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.38	18.20	1.208	0.19	0.089	0.107
12	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.25	18.20	1.245	-0.03	0.753	**0.937**
	LTE Band 7C	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100 +20902	2535 +2515.2	16.75	18.20	1.396	0.04	0.625	0.873
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.25	18.20	1.245	-0.11	0.204	0.254

	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.25	18.20	1.245	0.03	0.170	0.212
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.25	18.20	1.245	0.12	0.085	0.106
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20850	2510	17.12	18.20	1.282	-0.13	0.530	0.680
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21350	2560	17.17	18.20	1.268	-0.04	0.462	0.586
	LTE Band 7	20M	QPSK	100	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.13	18.20	1.279	-0.05	0.653	0.835
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	14.27	15.50	1.327	-0.12	0.603	0.800
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	14.27	15.50	1.327	-0.07	0.323	0.429
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	14.27	15.50	1.327	0.09	0.180	0.239
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	14.27	15.50	1.327	0.14	0.205	0.272
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	20850	2510	13.97	15.50	1.422	0.01	0.495	0.704
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21350	2560	14.09	15.50	1.384	0.14	0.515	0.713
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	14.17	15.50	1.358	0.1	0.612	0.831
	LTE Band 7C	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21100 +20902	2535 +2515.2	13.87	15.50	1.455	0.09	0.477	0.694
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	14.17	15.50	1.358	0.17	0.330	0.448
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	14.17	15.50	1.358	-0.08	0.181	0.246
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	14.17	15.50	1.358	-0.01	0.208	0.283
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	20850	2510	13.87	15.50	1.455	0.04	0.496	0.722
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21350	2560	14.08	15.50	1.387	0.17	0.519	0.720
	LTE Band 7	20M	QPSK	100	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	14.04	15.50	1.400	0.03	0.582	0.815

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 0	DSI 0	Full	37850	2580	22.89	24.00	1.291	62.9	1.006	0.08	0.063	0.082
	LTE Band 38C	20M	QPSK	1	99	Right Cheek	0mm	Ant 0	DSI 0	Full	37850 +38048	2580 +2599.8	22.72	24.00	1.343	62.9	1.006	0.04	0.061	0.082
	LTE Band 38	20M	QPSK	1	99	Right Tilted	0mm	Ant 0	DSI 0	Full	37850	2580	22.89	24.00	1.291	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Left Cheek	0mm	Ant 0	DSI 0	Full	37850	2580	22.89	24.00	1.291	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Left Tilted	0mm	Ant 0	DSI 0	Full	37850	2580	22.89	24.00	1.291	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full	37850	2580	21.64	23.00	1.368	62.9	1.006	0.03	0.041	0.056
	LTE Band 38	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full	37850	2580	21.64	23.00	1.368	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full	37850	2580	21.64	23.00	1.368	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full	37850	2580	21.64	23.00	1.368	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 2	DSI 0	Full	37850	2580	24.66	25.50	1.213	62.9	1.006	0.19	0.117	0.143
	LTE Band 38	20M	QPSK	1	99	Right Tilted	0mm	Ant 2	DSI 0	Full	37850	2580	24.66	25.50	1.213	62.9	1.006	-0.02	0.053	0.065
	LTE Band 38	20M	QPSK	1	99	Left Cheek	0mm	Ant 2	DSI 0	Full	37850	2580	24.66	25.50	1.213	62.9	1.006	-0.09	0.196	0.239
	LTE Band 38C	20M	QPSK	1	99	Left Cheek	0mm	Ant 2	DSI 0	Full	37850 +38048	2580 +2599.8	24.37	25.50	1.297	62.9	1.006	0.06	0.181	0.236
	LTE Band 38	20M	QPSK	1	99	Left Tilted	0mm	Ant 2	DSI 0	Full	37850	2580	24.66	25.50	1.213	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	37850	2580	23.57	24.50	1.239	62.9	1.006	-0.17	0.093	0.116
	LTE Band 38	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	37850	2580	23.57	24.50	1.239	62.9	1.006	0.15	0.041	0.051
	LTE Band 38	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	37850	2580	23.57	24.50	1.239	62.9	1.006	0.04	0.154	0.192
	LTE Band 38	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	37850	2580	23.57	24.50	1.239	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.18	20.20	1.005	62.9	1.006	0.06	0.820	0.829
	LTE Band 38	20M	QPSK	1	99	Right Tilted	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.18	20.20	1.005	62.9	1.006	0.15	0.344	0.348
	LTE Band 38	20M	QPSK	1	99	Left Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.18	20.20	1.005	62.9	1.006	0.19	0.256	0.259
	LTE Band 38	20M	QPSK	1	99	Left Tilted	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.18	20.20	1.005	62.9	1.006	0.18	0.109	0.110
	LTE Band 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	20.16	20.20	1.009	62.9	1.006	-0.16	0.701	0.712
	LTE Band 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 3	DSI 0	Reduced	38150	2610	20.17	20.20	1.007	62.9	1.006	-0.02	0.685	0.694
13	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.16	20.20	1.009	62.9	1.006	-0.03	0.933	**0.947**
	LTE Band 38C	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	37850 +38048	2580 +2599.8	20.04	20.20	1.038	62.9	1.006	0.05	0.813	0.849
	LTE Band 38	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.16	20.20	1.009	62.9	1.006	0.18	0.342	0.347
	LTE Band 38	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.16	20.20	1.009	62.9	1.006	-0.01	0.230	0.234
	LTE Band 38	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.16	20.20	1.009	62.9	1.006	0.12	0.111	0.113
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	20.09	20.20	1.026	62.9	1.006	0.17	0.792	0.817
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	38150	2610	20.15	20.20	1.012	62.9	1.006	-0.18	0.687	0.699
	LTE Band 38	20M	QPSK	100	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.15	20.20	1.012	62.9	1.006	-0.03	0.891	0.907
	LTE Band 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 5	DSI 0	Reduced	37850	2580	17.21	18.00	1.199	62.9	1.006	0.09	0.670	0.808
	LTE Band 38	20M	QPSK	1	99	Right Tilted	0mm	Ant 5	DSI 0	Reduced	37850	2580	17.21	18.00	1.199	62.9	1.006	-0.15	0.377	0.455
	LTE Band 38	20M	QPSK	1	99	Left Cheek	0mm	Ant 5	DSI 0	Reduced	37850	2580	17.21	18.00	1.199	62.9	1.006	-0.07	0.210	0.253
	LTE Band 38	20M	QPSK	1	99	Left Tilted	0mm	Ant 5	DSI 0	Reduced	37850	2580	17.21	18.00	1.199	62.9	1.006	-0.08	0.232	0.280
	LTE Band 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 5	DSI 0	Reduced	38000	2595	16.89	18.00	1.291	62.9	1.006	-0.1	0.561	0.729
	LTE Band 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 5	DSI 0	Reduced	38150	2610	16.90	18.00	1.288	62.9	1.006	-0.01	0.644	0.835
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	37850	2580	17.11	18.00	1.227	62.9	1.006	0.18	0.653	0.806
	LTE Band 38	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	37850	2580	17.11	18.00	1.227	62.9	1.006	-0.12	0.364	0.449
	LTE Band 38	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	37850	2580	17.11	18.00	1.227	62.9	1.006	0.07	0.196	0.242
	LTE Band 38	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	37850	2580	17.11	18.00	1.227	62.9	1.006	0.03	0.226	0.279
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	38000	2595	16.93	18.00	1.279	62.9	1.006	0.05	0.580	0.746
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	38150	2610	17.00	18.00	1.259	62.9	1.006	-0.06	0.686	0.869
	LTE Band 38C	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	38150 +37952	2610 +2590.2	16.59	18.00	1.384	62.9	1.006	-0.02	0.524	0.729
	LTE Band 38	20M	QPSK	100	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	37850	2580	17.02	18.00	1.253	62.9	1.006	-0.03	0.636	0.802
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 0	DSI 0	Full	40185	2549.5	23.48	24.00	1.127	62.9	1.006	0.01	0.119	0.135
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 0	DSI 0	Full	40185	2549.5	23.48	24.00	1.127	62.9	1.006	-0.05	0.074	0.084
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 0	DSI 0	Full	40185	2549.5	23.48	24.00	1.127	62.9	1.006	-0.07	0.226	0.256
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 0	DSI 0	Full	40185	2549.5	23.48	24.00	1.127	62.9	1.006	0.15	0.041	0.046
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full	40185	2549.5	22.42	23.00	1.143	62.9	1.006	-	n/a	n/a

	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full	40185	2549.5	22.42	23.00	1.143	62.9	1.006	-0.15	0.089	0.102
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full	40185	2549.5	22.42	23.00	1.143	62.9	1.006	-0.18	0.172	0.198
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full	40185	2549.5	22.42	23.00	1.143	62.9	1.006	-0.03	0.040	0.046
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 2	DSI 0	Full	40185	2549.5	25.13	25.50	1.089	62.9	1.006	0.03	0.115	0.126
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 2	DSI 0	Full	40185	2549.5	25.13	25.50	1.089	62.9	1.006	0.03	0.078	0.085
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 2	DSI 0	Full	40185	2549.5	25.13	25.50	1.089	62.9	1.006	-0.05	0.216	0.237
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 2	DSI 0	Full	40185	2549.5	25.13	25.50	1.089	62.9	1.006	-0.17	0.047	0.051
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	40185	2549.5	24.15	24.50	1.084	62.9	1.006	0.13	0.084	0.092
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	40185	2549.5	24.15	24.50	1.084	62.9	1.006	0.07	0.064	0.070
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	40185	2549.5	24.15	24.50	1.084	62.9	1.006	0.03	0.163	0.178
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	40185	2549.5	24.15	24.50	1.084	62.9	1.006	-	n/a	n/a
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	20.19	20.20	1.002	62.9	1.006	-0.01	0.866	0.873
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	20.19	20.20	1.002	62.9	1.006	-0.17	0.358	0.361
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	20.19	20.20	1.002	62.9	1.006	-0.02	0.193	0.195
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	20.19	20.20	1.002	62.9	1.006	-0.03	0.079	0.080
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 3	DSI 0	Reduced	39750	2506	19.71	20.20	1.119	62.9	1.006	0.11	0.731	0.823
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	20.14	20.20	1.014	62.9	1.006	0.16	0.760	0.775
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 3	DSI 0	Reduced	41055	2636.5	20.01	20.20	1.045	62.9	1.006	0.09	0.492	0.517
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 3	DSI 0	Reduced	41490	2680	20.07	20.20	1.030	62.9	1.006	0.13	0.608	0.630
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	20.18	20.20	1.005	62.9	1.006	0.01	0.909	0.919
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	20.18	20.20	1.005	62.9	1.006	0.09	0.364	0.368
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	20.18	20.20	1.005	62.9	1.006	-0.06	0.199	0.201
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	20.18	20.20	1.005	62.9	1.006	-0.18	0.076	0.077
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	39750	2506	19.68	20.20	1.127	62.9	1.006	-0.11	0.749	0.849
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	20.17	20.20	1.007	62.9	1.006	0.03	0.764	0.774
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	41055	2636.5	19.97	20.20	1.054	62.9	1.006	-0.02	0.497	0.527
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	41490	2680	20.04	20.20	1.038	62.9	1.006	0.14	0.612	0.639
	LTE Band 41	20M	QPSK	100	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	20.02	20.20	1.042	62.9	1.006	0.03	0.859	0.901
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	18.24	18.50	1.062	62.9	1.006	0.06	0.502	0.536
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	18.24	18.50	1.062	62.9	1.006	0.15	0.460	0.491
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	18.24	18.50	1.062	62.9	1.006	-0.16	0.260	0.278
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	18.24	18.50	1.062	62.9	1.006	0.13	0.264	0.282
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	18.08	18.50	1.102	62.9	1.006	-0.06	0.542	0.601
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	18.08	18.50	1.102	62.9	1.006	0.19	0.462	0.512
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	18.08	18.50	1.102	62.9	1.006	-0.02	0.265	0.294
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	18.08	18.50	1.102	62.9	1.006	-0.13	0.264	0.293
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	39750	2506	17.85	18.50	1.161	62.9	1.006	0.18	0.492	0.575
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	40620	2593	17.91	18.50	1.146	62.9	1.006	0.14	0.542	0.625
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	41055	2636.5	17.78	18.50	1.180	62.9	1.006	0.09	0.538	0.639
14	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	41490	2680	17.74	18.50	1.191	62.9	1.006	-0.06	0.776	**0.930**
	LTE Band 41	20M	QPSK	100	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	18.01	18.50	1.119	62.9	1.006	-0.08	0.491	0.553

<LTE UL CA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 4_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	20175	1732.5	24.59	25.00	1.099	0.13	0.121	0.133
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	20175	1732.5	24.59	25.00	1.099	0.03	0.097	0.107
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	20175	1732.5	24.59	25.00	1.099	0.16	0.129	0.142
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	20175	1732.5	24.59	25.00	1.099	-0.08	0.069	0.076
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full	20175	1732.5	23.62	24.00	1.091	0.09	0.107	0.117
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full	20175	1732.5	23.62	24.00	1.091	0.19	0.079	0.086
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full	20175	1732.5	23.62	24.00	1.091	0.12	0.131	0.143
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full	20175	1732.5	23.62	24.00	1.091	-0.09	0.053	0.058
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	16.15	16.50	1.084	0.01	0.440	0.477
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	16.15	16.50	1.084	-0.16	0.372	0.403
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	16.15	16.50	1.084	0.19	0.240	0.260
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	16.15	16.50	1.084	-0.09	0.242	0.262
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	16.10	16.50	1.096	0.1	0.437	0.479
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	16.10	16.50	1.096	0.02	0.387	0.424
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	16.10	16.50	1.096	0.19	0.239	0.262
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	20175	1732.5	16.10	16.50	1.096	0.17	0.264	0.289
	LTE Band 4	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 0	Full	20175	1732.5	25.32	25.50	1.042	0.02	0.226	0.236
	LTE Band 4	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 0	Full	20175	1732.5	25.32	25.50	1.042	-0.18	0.119	0.124
	LTE Band 4	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 0	Full	20175	1732.5	25.32	25.50	1.042	0.15	0.225	0.235
	LTE Band 4	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 0	Full	20175	1732.5	25.32	25.50	1.042	-0.14	0.088	0.092
	LTE Band 4	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	20175	1732.5	24.27	24.50	1.054	-0.12	0.175	0.185
	LTE Band 4	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	20175	1732.5	24.27	24.50	1.054	-0.03	0.098	0.103
	LTE Band 4	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	20175	1732.5	24.27	24.50	1.054	-0.08	0.182	0.192
	LTE Band 4	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	20175	1732.5	24.27	24.50	1.054	0.04	0.071	0.075
	LTE Band 4	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	16.51	16.70	1.045	-0.09	0.451	0.471
	LTE Band 4	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	16.51	16.70	1.045	0.11	0.155	0.162
	LTE Band 4	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	16.51	16.70	1.045	0.07	0.125	0.131
	LTE Band 4	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	16.51	16.70	1.045	0.13	0.061	0.064
	LTE Band 4	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	16.46	16.70	1.057	-0.1	0.454	0.480
	LTE Band 4	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	16.46	16.70	1.057	-0.04	0.158	0.167
	LTE Band 4	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	16.46	16.70	1.057	-0.06	0.127	0.134
	LTE Band 4	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	16.46	16.70	1.057	0.18	0.063	0.066
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	23.36	24.00	1.159	-0.17	0.275	0.319
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	23.36	24.00	1.159	0.14	0.062	0.072
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	23.36	24.00	1.159	0.04	0.122	0.141
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	23.36	24.00	1.159	-0.02	0.046	0.053
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	22.29	23.00	1.178	-0.13	0.224	0.264
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	22.29	23.00	1.178	0.04	0.051	0.060
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	22.29	23.00	1.178	0.06	0.096	0.113
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	22.29	23.00	1.178	-0.01	0.000	0.000
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.65	14.50	1.216	0.18	0.417	0.507
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.65	14.50	1.216	-0.09	0.266	0.324
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.65	14.50	1.216	-0.01	0.147	0.179
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.65	14.50	1.216	0.01	0.172	0.209
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.57	14.50	1.239	-0.03	0.434	0.538
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.57	14.50	1.239	0.19	0.274	0.339
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.57	14.50	1.239	0.15	0.137	0.170
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.57	14.50	1.239	0.08	0.164	0.203
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	0.1	0.177	0.213
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	0.07	0.108	0.130
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	-0.17	0.207	0.249
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	0.06	0.058	0.070
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	-0.16	0.134	0.162

	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	0.12	0.084	0.101
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	-0.13	0.190	0.229
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	0.15	0.047	0.057
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.88	16.70	1.208	-0.13	0.427	0.516
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.88	16.70	1.208	0.12	0.144	0.174
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.88	16.70	1.208	-0.02	0.118	0.143
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.88	16.70	1.208	0.07	0.065	0.079
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.75	16.70	1.245	0.08	0.342	0.426
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.75	16.70	1.245	0.14	0.133	0.166
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.75	16.70	1.245	0.03	0.119	0.148
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.75	16.70	1.245	-0.17	0.060	0.075

<5G NR SA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 n5	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	-0.11	0.213	0.236
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	-0.02	0.133	0.147
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	0.17	0.254	0.281
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	-0.04	0.121	0.134
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	0.19	0.211	0.243
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	-0.04	0.135	0.156
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	-0.09	0.247	0.285
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	-0.05	0.115	0.133
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.62	23.20	1.143	0.14	0.250	0.286
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.62	23.20	1.143	-	n/a	n/a
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.62	23.20	1.143	-0.08	0.508	0.581
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.62	23.20	1.143	-0.04	0.057	0.065
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.45	23.20	1.189	-0.17	0.368	0.437
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.45	23.20	1.189	0.09	0.056	0.067
15	FR1 n5	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.45	23.20	1.189	-0.13	0.621	**0.738**
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.45	23.20	1.189	-0.02	0.091	0.108
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	22.41	24.00	1.442	-0.02	0.258	0.372
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	22.41	24.00	1.442	-0.04	0.064	0.092
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	22.41	24.00	1.442	-0.19	0.115	0.166
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	22.41	24.00	1.442	0.08	0.052	0.075
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	22.38	24.00	1.452	0.02	0.274	0.398
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	22.38	24.00	1.452	0.04	0.064	0.093
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	22.38	24.00	1.452	-0.19	0.124	0.180
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	22.38	24.00	1.452	0.01	0.058	0.084
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	24.59	25.00	1.099	0.03	0.171	0.188
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	24.59	25.00	1.099	-0.18	0.087	0.096
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	24.59	25.00	1.099	0.18	0.228	0.251
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	24.59	25.00	1.099	0.06	0.053	0.058
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	24.33	25.00	1.167	-0.04	0.198	0.231
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	24.33	25.00	1.167	0.03	0.095	0.111
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	24.33	25.00	1.167	0.18	0.249	0.291
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	24.33	25.00	1.167	0.05	0.064	0.075
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	17.12	17.70	1.143	-0.11	0.514	0.587
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	17.12	17.70	1.143	0.13	0.184	0.210
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	17.12	17.70	1.143	-0.1	0.210	0.240
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	17.12	17.70	1.143	0.11	0.101	0.115
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	17.07	17.70	1.156	-0.09	0.617	0.713
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	17.07	17.70	1.156	0.18	0.186	0.215
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	17.07	17.70	1.156	0.09	0.186	0.215
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	17.07	17.70	1.156	0.17	0.088	0.102
16	FR1 n7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	15.01	16.00	1.256	-0.01	0.726	**0.912**
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	15.01	16.00	1.256	0.13	0.440	0.553
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	15.01	16.00	1.256	-0.11	0.240	0.301
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	15.01	16.00	1.256	0.03	0.281	0.353
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 5	DSI 0	Reduced	505000	2525	14.90	16.00	1.288	0.07	0.500	0.644
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 5	DSI 0	Reduced	509000	2545	14.95	16.00	1.274	-0.07	0.472	0.601
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	14.98	16.00	1.265	-0.08	0.509	0.644
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	14.98	16.00	1.265	-0.11	0.348	0.440
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	14.98	16.00	1.265	-0.14	0.250	0.316
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	14.98	16.00	1.265	-0.04	0.279	0.353
	FR1 n7	50M	BPSK	270	0	DFT-15	Right Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	14.95	16.00	1.274	0.14	0.495	0.630
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full	519000	2595	22.89	24.00	1.291	-0.08	0.115	0.148

	FR1 n38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full	519000	2595	22.89	24.00	1.291	0.06	0.039	0.050
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full	519000	2595	22.89	24.00	1.291	-0.08	0.049	0.063
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full	519000	2595	22.89	24.00	1.291	-	n/a	n/a
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full	519000	2595	22.75	24.00	1.334	-0.12	0.131	0.175
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full	519000	2595	22.75	24.00	1.334	-	n/a	n/a
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full	519000	2595	22.75	24.00	1.334	-0.07	0.062	0.083
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full	519000	2595	22.75	24.00	1.334	-	n/a	n/a
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full	519000	2595	24.98	25.50	1.127	0.17	0.208	0.234
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full	519000	2595	24.98	25.50	1.127	0.11	0.106	0.119
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full	519000	2595	24.98	25.50	1.127	0.14	0.311	0.351
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full	519000	2595	24.98	25.50	1.127	0.06	0.102	0.115
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full	519000	2595	24.68	25.50	1.208	0.17	0.187	0.226
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full	519000	2595	24.68	25.50	1.208	0.11	0.104	0.126
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full	519000	2595	24.68	25.50	1.208	-0.06	0.320	0.387
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full	519000	2595	24.68	25.50	1.208	-0.07	0.099	0.120
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	18.65	18.70	1.012	-0.14	0.619	0.626
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	18.65	18.70	1.012	-0.17	0.246	0.249
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	18.65	18.70	1.012	-0.11	0.224	0.227
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	18.65	18.70	1.012	0.04	0.113	0.114
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	18.60	18.70	1.023	0.16	0.692	0.708
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	18.60	18.70	1.023	-0.02	0.218	0.223
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	18.60	18.70	1.023	0	0.211	0.216
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	18.60	18.70	1.023	0.1	0.112	0.115
17	FR1 n38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	519000	2595	15.06	16.00	1.242	-0.13	0.782	**0.971**
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	519000	2595	15.06	16.00	1.242	-0.05	0.369	0.458
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	519000	2595	15.06	16.00	1.242	-0.18	0.245	0.304
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	519000	2595	15.06	16.00	1.242	-0.08	0.260	0.323
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	518004	2590.02	14.85	16.00	1.303	-0.07	0.499	0.650
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	519996	2599.98	14.92	16.00	1.282	0.11	0.498	0.639
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	519000	2595	14.85	16.00	1.303	-0.15	0.518	0.675
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	519000	2595	14.85	16.00	1.303	0.11	0.379	0.494
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	519000	2595	14.85	16.00	1.303	-0.19	0.243	0.317
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	519000	2595	14.85	16.00	1.303	-0.05	0.261	0.340
	FR1 n38	40M	BPSK	100	0	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	519000	2595	14.77	16.00	1.327	-0.06	0.492	0.653
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full	518598	2592.99	23.57	24.50	1.239	-0.1	0.109	0.135
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full	518598	2592.99	23.57	24.50	1.239	-	n/a	n/a
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full	518598	2592.99	23.57	24.50	1.239	0.04	0.042	0.052
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full	518598	2592.99	23.57	24.50	1.239	-	n/a	n/a
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full	518598	2592.99	23.48	24.50	1.265	0.02	0.116	0.147
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full	518598	2592.99	23.48	24.50	1.265	0.07	0.043	0.054
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full	518598	2592.99	23.48	24.50	1.265	0.13	0.074	0.094
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full	518598	2592.99	23.48	24.50	1.265	-0.15	0.046	0.058
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full	518598	2592.99	25.10	25.50	1.096	0.08	0.230	0.252
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full	518598	2592.99	25.10	25.50	1.096	0.05	0.094	0.103
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full	518598	2592.99	25.10	25.50	1.096	0.03	0.368	0.404
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full	518598	2592.99	25.10	25.50	1.096	0.12	0.087	0.095
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full	518598	2592.99	24.87	25.50	1.156	0.02	0.216	0.250
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full	518598	2592.99	24.87	25.50	1.156	-0.04	0.120	0.139
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full	518598	2592.99	24.87	25.50	1.156	0.02	0.371	0.429
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full	518598	2592.99	24.87	25.50	1.156	0.12	0.114	0.132
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	18.03	18.20	1.040	-0.17	0.559	0.581
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	18.03	18.20	1.040	-0.01	0.196	0.204
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	18.03	18.20	1.040	0.17	0.198	0.206
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	18.03	18.20	1.040	0.08	0.104	0.108
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.99	18.20	1.050	-0.12	0.769	0.807
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.99	18.20	1.050	-0.05	0.184	0.193

	FR1 n41	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.99	18.20	1.050	-0.15	0.165	0.173
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.99	18.20	1.050	-0.15	0.092	0.097
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	509202	2546.01	17.92	18.20	1.067	0.08	0.586	0.625
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	528000	2640	17.89	18.20	1.074	-0.14	0.425	0.456
	FR1 n41	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.84	18.20	1.086	-0.01	0.419	0.455
18	FR1 n41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	518598	2592.99	15.19	16.00	1.205	0.03	0.677	**0.816**
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	518598	2592.99	15.19	16.00	1.205	-0.1	0.466	0.562
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	518598	2592.99	15.19	16.00	1.205	0.12	0.262	0.316
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	518598	2592.99	15.19	16.00	1.205	-0.04	0.289	0.348
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	509202	2546.01	15.17	16.00	1.211	-0.04	0.516	0.625
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	528000	2640	15.12	16.00	1.225	0.06	0.516	0.632
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	518598	2592.99	15.14	16.00	1.219	0.18	0.564	0.688
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	518598	2592.99	15.14	16.00	1.219	0.16	0.443	0.540
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	518598	2592.99	15.14	16.00	1.219	-0.12	0.290	0.354
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	518598	2592.99	15.14	16.00	1.219	0.15	0.297	0.362
	FR1 n41	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	518598	2592.99	15.12	16.00	1.225	-0.18	0.523	0.640
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.99	16.20	1.050	0.19	0.579	0.608
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.99	16.20	1.050	0.17	0.653	0.685
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.99	16.20	1.050	0.1	0.303	0.318
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.99	16.20	1.050	0.06	0.384	0.403
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.95	16.20	1.059	-0.08	0.606	0.642
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.95	16.20	1.059	0.02	0.940	0.996
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.95	16.20	1.059	0.02	0.321	0.340
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.95	16.20	1.059	0.19	0.376	0.398
	FR1 n77	100M	BPSK	270	0	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.98	16.20	1.052	0.02	0.602	0.633
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.85	16.20	1.084	-0.08	0.511	0.554
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.85	16.20	1.084	0.16	0.521	0.565
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.85	16.20	1.084	-0.14	0.270	0.293
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.85	16.20	1.084	-0.17	0.329	0.357
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.84	16.20	1.086	0.06	0.485	0.527
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.84	16.20	1.086	0.03	0.497	0.540
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.84	16.20	1.086	0.03	0.211	0.229
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.84	16.20	1.086	-0.07	0.257	0.279
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.23	17.50	1.340	-0.03	0.236	0.316
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.23	17.50	1.340	-0.07	0.267	0.358
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.23	17.50	1.340	-0.07	0.311	0.417
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.23	17.50	1.340	-0.08	0.354	0.474
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.15	17.50	1.365	0.06	0.233	0.318
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.15	17.50	1.365	0.05	0.286	0.390
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.15	17.50	1.365	0.09	0.376	0.513
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.15	17.50	1.365	0.02	0.435	0.594
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	16.13	17.50	1.371	0.01	0.314	0.430
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	16.13	17.50	1.371	0.01	0.394	0.540
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	16.13	17.50	1.371	-0.08	0.435	0.596
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	16.13	17.50	1.371	-0.02	0.588	0.806
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.05	17.50	1.396	0.12	0.522	0.729
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	662000	3930	16.10	17.50	1.380	-0.09	0.481	0.664
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	16.10	17.50	1.380	-0.15	0.339	0.468
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	16.10	17.50	1.380	0.11	0.349	0.482
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	16.10	17.50	1.380	0.16	0.431	0.595
19	FR1 n77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	16.10	17.50	1.380	-0.03	0.791	**1.092**
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.02	17.50	1.406	0.18	0.553	0.778
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	662000	3930	16.08	17.50	1.387	-0.16	0.444	0.616
	FR1 n77	100M	BPSK	270	0	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	16.11	17.50	1.377	0.11	0.440	0.606
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	14.36	15.50	1.300	-0.14	0.126	0.164
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	14.36	15.50	1.300	-0.13	0.078	0.101

	FR1 n77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	14.36	15.50	1.300	0.02	0.430	0.559
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	14.36	15.50	1.300	-0.07	0.216	0.281
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	14.33	15.50	1.309	-0.07	0.130	0.170
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	14.33	15.50	1.309	-0.03	0.128	0.168
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	14.33	15.50	1.309	0.09	0.415	0.543
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	14.33	15.50	1.309	-0.15	0.233	0.305
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	14.04	15.50	1.400	0.06	0.083	0.116
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	14.04	15.50	1.400	-	n/a	n/a
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	14.04	15.50	1.400	0.04	0.360	0.504
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	14.04	15.50	1.400	0.06	0.219	0.307
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	14.02	15.50	1.406	-0.13	0.091	0.128
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	14.02	15.50	1.406	-	n/a	n/a
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	14.02	15.50	1.406	-0.07	0.515	0.724
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	14.02	15.50	1.406	0.07	0.235	0.330
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.36	23.20	1.213	0.08	0.387	0.470
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.36	23.20	1.213	-0.04	0.227	0.275
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.36	23.20	1.213	0.04	0.111	0.135
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.36	23.20	1.213	-0.16	0.117	0.142
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.33	23.20	1.222	-0.06	0.474	0.579
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.33	23.20	1.222	0.04	0.240	0.293
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.33	23.20	1.222	0.04	0.135	0.165
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.33	23.20	1.222	0.17	0.151	0.184
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	656000	3840	22.23	23.20	1.250	0.09	0.290	0.363
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	656000	3840	22.23	23.20	1.250	0.04	0.230	0.288
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	656000	3840	22.23	23.20	1.250	0.07	0.162	0.203
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	656000	3840	22.23	23.20	1.250	-0.02	0.206	0.258
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	656000	3840	22.18	23.20	1.265	-0.09	0.286	0.362
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	656000	3840	22.18	23.20	1.265	-0.04	0.276	0.349
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	656000	3840	22.18	23.20	1.265	0.12	0.182	0.230
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	656000	3840	22.18	23.20	1.265	0.19	0.239	0.302
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.48	16.00	1.127	-0.16	0.662	0.746
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.48	16.00	1.127	0.14	0.685	0.772
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.48	16.00	1.127	-0.1	0.390	0.440
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.48	16.00	1.127	-0.16	0.467	0.526
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.46	16.00	1.132	0.06	0.675	0.764
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.46	16.00	1.132	-0.16	0.698	0.790
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.46	16.00	1.132	-0.14	0.452	0.512
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.46	16.00	1.132	-0.06	0.519	0.588
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	15.18	16.00	1.208	0.08	0.588	0.710
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	15.18	16.00	1.208	-0.16	0.644	0.778
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	15.18	16.00	1.208	0.13	0.337	0.407
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	15.18	16.00	1.208	0.16	0.464	0.560
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	15.14	16.00	1.219	0.07	0.562	0.685
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	15.14	16.00	1.219	-0.04	0.585	0.713
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	15.14	16.00	1.219	0.06	0.344	0.419
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	15.14	16.00	1.219	0.18	0.446	0.544
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.56	17.50	1.242	-0.1	0.380	0.472
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.56	17.50	1.242	0.02	0.401	0.498
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.56	17.50	1.242	-0.14	0.591	0.734
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.56	17.50	1.242	0.01	0.625	0.776
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.55	17.50	1.245	0.03	0.392	0.488
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.55	17.50	1.245	0.09	0.459	0.571
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.55	17.50	1.245	-0.03	0.592	0.737
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	16.55	17.50	1.245	0.08	0.631	0.785
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.45	17.50	1.274	-0.04	0.567	0.722
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.45	17.50	1.274	0.16	0.571	0.727

	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.45	17.50	1.274	-0.09	0.582	0.741
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.45	17.50	1.274	0.04	0.651	0.829
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.44	17.50	1.276	0.06	0.577	0.737
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.44	17.50	1.276	-0.19	0.580	0.740
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.44	17.50	1.276	-0.08	0.582	0.743
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.44	17.50	1.276	0.06	0.660	0.842
	FR1 n78	100M	BPSK	270	0	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	16.42	17.50	1.282	0.16	0.392	0.503
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.17	16.00	1.211	-0.11	0.222	0.269
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.17	16.00	1.211	0.02	0.144	0.174
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.17	16.00	1.211	-0.1	0.712	0.862
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.17	16.00	1.211	0.04	0.421	0.510
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.12	16.00	1.225	-0.11	0.245	0.300
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.12	16.00	1.225	-0.13	0.160	0.196
20	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.12	16.00	1.225	0.12	0.783	**0.959**
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.12	16.00	1.225	0.17	0.725	0.888
	FR1 n78	100M	BPSK	270	0	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.07	16.00	1.239	-0.08	0.685	0.849
	FR1 n78	100M	BPSK	270	0	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.07	16.00	1.239	0.02	0.680	0.842
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	14.97	16.00	1.268	-0.09	0.202	0.256
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	14.97	16.00	1.268	-0.14	0.174	0.221
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	14.97	16.00	1.268	-0.04	0.721	0.914
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	14.97	16.00	1.268	0.11	0.505	0.640
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	14.95	16.00	1.274	-0.08	0.175	0.223
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	14.95	16.00	1.274	-0.15	0.145	0.185
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	14.95	16.00	1.274	0.06	0.725	0.923
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	14.95	16.00	1.274	0.05	0.465	0.592
	FR1 n78	100M	BPSK	270	0	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	14.92	16.00	1.282	0.06	0.538	0.690
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	23.29	24.50	1.321	-0.04	0.442	0.584
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	23.29	24.50	1.321	0.18	0.238	0.314
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	23.29	24.50	1.321	-0.09	0.136	0.180
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	23.29	24.50	1.321	-0.14	0.145	0.192
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	23.04	24.50	1.400	0.04	0.442	0.619
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	23.04	24.50	1.400	-0.09	0.240	0.336
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	23.04	24.50	1.400	0.13	0.152	0.213
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	23.04	24.50	1.400	0.06	0.157	0.220
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	23.19	24.50	1.352	0.04	0.234	0.316
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	23.19	24.50	1.352	-0.17	0.215	0.291
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	23.19	24.50	1.352	-0.16	0.164	0.222
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	23.19	24.50	1.352	0.05	0.220	0.297
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	23.03	24.50	1.403	-0.06	0.244	0.342
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	23.03	24.50	1.403	0.12	0.218	0.306
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	23.03	24.50	1.403	0.02	0.153	0.215
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	23.03	24.50	1.403	-0.01	0.219	0.307

<5G NR UL CA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 n5	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	-0.11	0.213	0.236
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	-0.02	0.133	0.147
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	0.17	0.254	0.281
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	-0.04	0.121	0.134
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	0.19	0.211	0.243
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	-0.04	0.135	0.156
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	-0.09	0.247	0.285
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	-0.05	0.115	0.133
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.62	21.12	1.122	0.08	0.186	0.209
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.62	21.12	1.122	0.18	0.000	0.000
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.62	21.12	1.122	0.09	0.341	0.383
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.62	21.12	1.122	-0.13	0.041	0.046
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.45	21.20	1.189	-0.07	0.244	0.290
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.45	21.20	1.189	-0.02	0.000	0.000
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.45	21.20	1.189	-0.19	0.453	0.538
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.45	21.20	1.189	-0.03	0.053	0.063
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	22.41	24.00	1.442	-0.02	0.258	0.372
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	22.41	24.00	1.442	-0.04	0.064	0.092
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	22.41	24.00	1.442	-0.19	0.115	0.166
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	22.41	24.00	1.442	0.08	0.052	0.075
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	22.38	24.00	1.452	0.02	0.274	0.398
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	22.38	24.00	1.452	0.04	0.064	0.093
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	22.38	24.00	1.452	-0.19	0.124	0.180
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	22.38	24.00	1.452	0.01	0.058	0.084
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	24.59	25.00	1.099	0.03	0.171	0.188
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	24.59	25.00	1.099	-0.18	0.087	0.096
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	24.59	25.00	1.099	0.18	0.228	0.251
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	24.59	25.00	1.099	0.06	0.053	0.058
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	24.33	25.00	1.167	-0.04	0.198	0.231
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	24.33	25.00	1.167	0.03	0.095	0.111
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	24.33	25.00	1.167	0.18	0.249	0.291
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	24.33	25.00	1.167	0.05	0.064	0.075
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	15.62	16.20	1.143	0.12	0.380	0.434
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	15.62	16.20	1.143	0.02	0.157	0.179
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	15.62	16.20	1.143	0.06	0.133	0.152
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	15.62	16.20	1.143	0.19	0.069	0.079
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	15.57	16.20	1.156	-0.07	0.470	0.543
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	15.57	16.20	1.156	0.15	0.140	0.162
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	15.57	16.20	1.156	0.01	0.123	0.142
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	15.57	16.20	1.156	-0.16	0.064	0.074
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.01	14.00	1.256	0.13	0.417	0.524
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.01	14.00	1.256	0.01	0.288	0.362
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.01	14.00	1.256	0.17	0.153	0.192
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.01	14.00	1.256	0.09	0.172	0.216
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	12.98	14.00	1.265	0.13	0.333	0.421
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	12.98	14.00	1.265	0.03	0.281	0.355
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	12.98	14.00	1.265	-0.09	0.155	0.196
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	12.98	14.00	1.265	0.18	0.174	0.220
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full	519000	2595	22.89	24.00	1.291	-0.08	0.115	0.148
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full	519000	2595	22.89	24.00	1.291	0.06	0.039	0.050
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full	519000	2595	22.89	24.00	1.291	-0.08	0.049	0.063
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full	519000	2595	22.89	24.00	1.291	-	n/a	n/a
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full	519000	2595	22.75	24.00	1.334	-0.12	0.131	0.175

	FR1 n38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full	519000	2595	22.75	24.00	1.334	-	n/a	n/a
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full	519000	2595	22.75	24.00	1.334	-0.07	0.062	0.083
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full	519000	2595	22.75	24.00	1.334	-	n/a	n/a
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full	519000	2595	24.98	25.50	1.127	0.17	0.208	0.234
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full	519000	2595	24.98	25.50	1.127	0.11	0.106	0.119
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full	519000	2595	24.98	25.50	1.127	0.14	0.311	0.351
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full	519000	2595	24.98	25.50	1.127	0.06	0.102	0.115
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full	519000	2595	24.68	25.50	1.208	0.17	0.187	0.226
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full	519000	2595	24.68	25.50	1.208	0.11	0.104	0.126
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full	519000	2595	24.68	25.50	1.208	-0.06	0.320	0.387
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full	519000	2595	24.68	25.50	1.208	-0.07	0.099	0.120
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.65	16.70	1.012	-0.14	0.437	0.442
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.65	16.70	1.012	-0.18	0.163	0.165
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.65	16.70	1.012	-0.11	0.166	0.168
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.65	16.70	1.012	0.06	0.072	0.073
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.60	16.70	1.023	-0.12	0.471	0.482
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.60	16.70	1.023	-0.14	0.156	0.160
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.60	16.70	1.023	-0.01	0.150	0.153
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.60	16.70	1.023	0.07	0.068	0.070
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	519000	2595	13.06	14.00	1.242	-0.13	0.403	0.500
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	519000	2595	13.06	14.00	1.242	-0.08	0.275	0.341
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	519000	2595	13.06	14.00	1.242	0.1	0.154	0.191
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	519000	2595	13.06	14.00	1.242	0.14	0.161	0.200
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	519000	2595	12.85	14.00	1.303	0.12	0.347	0.452
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	519000	2595	12.85	14.00	1.303	-0.12	0.274	0.357
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	519000	2595	12.85	14.00	1.303	-0.11	0.158	0.206
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	519000	2595	12.85	14.00	1.303	-0.14	0.166	0.216
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.48	14.00	1.127	-0.09	0.290	0.327
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.48	14.00	1.127	-0.19	0.306	0.345
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.48	14.00	1.127	0.04	0.147	0.166
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.48	14.00	1.127	-0.02	0.173	0.195
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.46	14.00	1.132	-0.04	0.284	0.322
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.46	14.00	1.132	0.06	0.431	0.488
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.46	14.00	1.132	-0.04	0.155	0.176
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.46	14.00	1.132	0.05	0.178	0.202
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.18	14.00	1.208	0.04	0.262	0.316
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.18	14.00	1.208	-0.14	0.297	0.359
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.18	14.00	1.208	0.15	0.150	0.181
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.18	14.00	1.208	-0.15	0.190	0.229
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.14	14.00	1.219	0.17	0.266	0.324
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.14	14.00	1.219	-0.11	0.290	0.354
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.14	14.00	1.219	-0.05	0.143	0.174
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.14	14.00	1.219	-0.11	0.185	0.226
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.06	15.00	1.242	-0.11	0.189	0.235
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.06	15.00	1.242	0.05	0.232	0.288
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.06	15.00	1.242	0.03	0.234	0.291
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.06	15.00	1.242	-0.08	0.262	0.325
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.05	15.00	1.245	-0.07	0.178	0.222
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.05	15.00	1.245	-0.08	0.230	0.286
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.05	15.00	1.245	-0.01	0.243	0.302
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.05	15.00	1.245	0.04	0.271	0.337
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.95	15.00	1.274	-0.17	0.198	0.252
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.95	15.00	1.274	0.04	0.246	0.313
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.95	15.00	1.274	0.03	0.235	0.299
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.95	15.00	1.274	-0.03	0.262	0.334
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.94	15.00	1.276	0.05	0.184	0.235

	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.94	15.00	1.276	0.02	0.252	0.322
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.94	15.00	1.276	-0.1	0.234	0.299
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.94	15.00	1.276	-0.07	0.388	0.495
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.17	14.00	1.211	-0.12	0.110	0.133
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.17	14.00	1.211	-0.06	0.073	0.088
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.17	14.00	1.211	0.15	0.342	0.414
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.17	14.00	1.211	-0.07	0.173	0.209
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.12	14.00	1.225	-0.16	0.105	0.129
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.12	14.00	1.225	-0.07	0.067	0.082
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.12	14.00	1.225	-0.11	0.442	0.541
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.12	14.00	1.225	0.12	0.185	0.227
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.97	14.00	1.268	-0.03	0.085	0.108
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.97	14.00	1.268	-0.1	0.072	0.091
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.97	14.00	1.268	0.15	0.315	0.399
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.97	14.00	1.268	0.02	0.181	0.229
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.95	14.00	1.274	0.09	0.085	0.108
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.95	14.00	1.274	-0.07	0.064	0.082
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.95	14.00	1.274	-0.19	0.323	0.411
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.95	14.00	1.274	-0.15	0.171	0.218
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.29	23.50	1.321	-0.03	0.269	0.355
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.29	23.50	1.321	0.04	0.159	0.210
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.29	23.50	1.321	-0.19	0.094	0.124
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.29	23.50	1.321	-0.07	0.082	0.108
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.04	23.50	1.400	0.15	0.383	0.536
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.04	23.50	1.400	-0.14	0.195	0.273
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.04	23.50	1.400	0.13	0.122	0.171
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.04	23.50	1.400	-0.11	0.109	0.153
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.19	23.50	1.352	0.08	0.243	0.329
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.19	23.50	1.352	0.12	0.223	0.302
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.19	23.50	1.352	0.19	0.159	0.215
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.19	23.50	1.352	-0.08	0.212	0.287
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.03	23.50	1.403	-0.1	0.260	0.365
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.03	23.50	1.403	0.19	0.263	0.369
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.03	23.50	1.403	0.02	0.173	0.243
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.03	23.50	1.403	-0.06	0.243	0.341

<EN-DC SAR>

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 5	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	20525	836.5	25.05	25.70	1.161	0.18	0.200	0.232
	LTE Band 5	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	20525	836.5	25.05	25.70	1.161	-0.05	0.124	0.144
	LTE Band 5	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	20525	836.5	25.05	25.70	1.161	-0.07	0.232	0.269
	LTE Band 5	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	20525	836.5	25.05	25.70	1.161	-0.09	0.101	0.117
	LTE Band 5	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	DSI 0	Full	20525	836.5	23.95	24.70	1.189	-0.07	0.157	0.187
	LTE Band 5	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	DSI 0	Full	20525	836.5	23.95	24.70	1.189	0.14	0.096	0.114
	LTE Band 5	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	DSI 0	Full	20525	836.5	23.95	24.70	1.189	0.05	0.180	0.214
	LTE Band 5	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	DSI 0	Full	20525	836.5	23.95	24.70	1.189	-0.16	0.080	0.095
	LTE Band 5	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.75	20.70	1.245	-0.08	0.150	0.187
	LTE Band 5	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.75	20.70	1.245	0.01	0.000	0.000
	LTE Band 5	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.75	20.70	1.245	-0.18	0.428	0.533
	LTE Band 5	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.75	20.70	1.245	-0.17	0.000	0.000
	LTE Band 5	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.74	20.70	1.247	0.02	0.148	0.185
	LTE Band 5	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.74	20.70	1.247	-0.06	0.000	0.000
	LTE Band 5	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.74	20.70	1.247	0.17	0.438	0.546
	LTE Band 5	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.74	20.70	1.247	-0.12	0.000	0.000
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	23.36	24.00	1.159	-0.17	0.275	0.319
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	23.36	24.00	1.159	0.14	0.062	0.072
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	23.36	24.00	1.159	0.04	0.122	0.141
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	23.36	24.00	1.159	-0.02	0.046	0.053
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	22.29	23.00	1.178	-0.13	0.224	0.264
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	22.29	23.00	1.178	0.04	0.051	0.060
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	22.29	23.00	1.178	0.06	0.096	0.113
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	22.29	23.00	1.178	-0.01	0.000	0.000
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	21.88	23.00	1.294	0.02	0.086	0.111
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	21.88	23.00	1.294	0.08	0.067	0.087
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	21.88	23.00	1.294	0.15	0.145	0.188
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	21.88	23.00	1.294	-0.08	0.045	0.058
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	20.80	22.00	1.318	-0.1	0.067	0.088
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	20.80	22.00	1.318	-0.05	0.056	0.074
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	20.80	22.00	1.318	-0.1	0.118	0.156
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	20.80	22.00	1.318	0.16	0.000	0.000
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	14.70	16.00	1.349	-0.09	0.402	0.542
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	14.70	16.00	1.349	-0.06	0.075	0.101
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	14.70	16.00	1.349	-0.16	0.075	0.101
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	14.70	16.00	1.349	0.1	0.000	0.000
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	14.61	16.00	1.377	-0.05	0.216	0.297
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	14.61	16.00	1.377	-0.01	0.078	0.107
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	14.61	16.00	1.377	-0.12	0.076	0.105
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	14.61	16.00	1.377	-0.16	0.000	0.000
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.65	14.50	1.216	0.18	0.417	0.507
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.65	14.50	1.216	-0.09	0.266	0.324
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.65	14.50	1.216	-0.01	0.147	0.179
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.65	14.50	1.216	0.01	0.172	0.209
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.57	14.50	1.239	-0.03	0.434	0.538
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.57	14.50	1.239	0.19	0.274	0.339
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.57	14.50	1.239	0.15	0.137	0.170
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	13.57	14.50	1.239	0.08	0.164	0.203
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	22.08	23.00	1.236	-0.08	0.179	0.221
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	22.08	23.00	1.236	-0.15	0.120	0.148
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	22.08	23.00	1.236	-0.09	0.249	0.308

	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	22.08	23.00	1.236	-0.07	0.054	0.067
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	21.10	22.00	1.230	0.1	0.144	0.177
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	21.10	22.00	1.230	-0.1	0.099	0.122
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full	21100	2535	21.10	22.00	1.230	0.15	0.202	0.249
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full	21100	2535	21.10	22.00	1.230	-0.1	0.047	0.058
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	0.1	0.177	0.213
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	0.07	0.108	0.130
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	-0.17	0.207	0.249
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	24.19	25.00	1.205	0.06	0.058	0.070
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	-0.16	0.134	0.162
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	0.12	0.084	0.101
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	-0.13	0.190	0.229
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	21100	2535	23.18	24.00	1.208	0.15	0.047	0.057
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.88	16.70	1.208	-0.13	0.427	0.516
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.88	16.70	1.208	0.12	0.144	0.174
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.88	16.70	1.208	-0.02	0.118	0.143
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.88	16.70	1.208	0.07	0.065	0.079
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.75	16.70	1.245	0.08	0.342	0.426
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.75	16.70	1.245	0.14	0.133	0.166
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.75	16.70	1.245	0.03	0.119	0.148
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.75	16.70	1.245	-0.17	0.060	0.075
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	12.27	13.50	1.327	0.19	0.322	0.427
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	12.27	13.50	1.327	0.06	0.213	0.283
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	12.27	13.50	1.327	0.02	0.119	0.158
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	12.27	13.50	1.327	0.14	0.132	0.175
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	12.17	13.50	1.358	-0.09	0.339	0.460
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	12.17	13.50	1.358	-0.01	0.216	0.293
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	21100	2535	12.17	13.50	1.358	-0.09	0.126	0.171
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	21100	2535	12.17	13.50	1.358	-0.03	0.136	0.185

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 0	DSI 0	Full	37850	2580	22.89	24.00	1.291	62.9	1.006	0.08	0.063	0.082
	LTE Band 38	20M	QPSK	1	99	Right Tilted	0mm	Ant 0	DSI 0	Full	37850	2580	22.89	24.00	1.291	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Left Cheek	0mm	Ant 0	DSI 0	Full	37850	2580	22.89	24.00	1.291	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Left Tilted	0mm	Ant 0	DSI 0	Full	37850	2580	22.89	24.00	1.291	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full	37850	2580	21.64	23.00	1.368	62.9	1.006	0.03	0.041	0.056
	LTE Band 38	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full	37850	2580	21.64	23.00	1.368	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full	37850	2580	21.64	23.00	1.368	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full	37850	2580	21.64	23.00	1.368	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 2	DSI 0	Full	37850	2580	24.66	25.50	1.213	62.9	1.006	0.19	0.117	0.143
	LTE Band 38	20M	QPSK	1	99	Right Tilted	0mm	Ant 2	DSI 0	Full	37850	2580	24.66	25.50	1.213	62.9	1.006	-0.02	0.053	0.065
	LTE Band 38	20M	QPSK	1	99	Left Cheek	0mm	Ant 2	DSI 0	Full	37850	2580	24.66	25.50	1.213	62.9	1.006	-0.09	0.196	0.239
	LTE Band 38	20M	QPSK	1	99	Left Tilted	0mm	Ant 2	DSI 0	Full	37850	2580	24.66	25.50	1.213	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	37850	2580	23.57	24.50	1.239	62.9	1.006	-0.17	0.093	0.116
	LTE Band 38	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	37850	2580	23.57	24.50	1.239	62.9	1.006	0.15	0.041	0.051
	LTE Band 38	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	37850	2580	23.57	24.50	1.239	62.9	1.006	0.04	0.154	0.192
	LTE Band 38	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	37850	2580	23.57	24.50	1.239	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	17.18	17.20	1.005	62.9	1.006	0.19	0.457	0.462
	LTE Band 38	20M	QPSK	1	99	Right Tilted	0mm	Ant 3	DSI 0	Reduced	37850	2580	17.18	17.20	1.005	62.9	1.006	-0.17	0.195	0.197
	LTE Band 38	20M	QPSK	1	99	Left Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	17.18	17.20	1.005	62.9	1.006	0.01	0.149	0.151
	LTE Band 38	20M	QPSK	1	99	Left Tilted	0mm	Ant 3	DSI 0	Reduced	37850	2580	17.18	17.20	1.005	62.9	1.006	0.15	0.077	0.078
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	17.16	17.20	1.009	62.9	1.006	-0.03	0.454	0.461
	LTE Band 38	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	37850	2580	17.16	17.20	1.009	62.9	1.006	-0.13	0.191	0.194
	LTE Band 38	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	17.16	17.20	1.009	62.9	1.006	0.01	0.145	0.147
	LTE Band 38	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	37850	2580	17.16	17.20	1.009	62.9	1.006	0.19	0.078	0.079
	LTE Band 38	20M	QPSK	1	99	Right Cheek	0mm	Ant 5	DSI 0	Reduced	37850	2580	14.21	15.00	1.199	62.9	1.006	0.09	0.384	0.463
	LTE Band 38	20M	QPSK	1	99	Right Tilted	0mm	Ant 5	DSI 0	Reduced	37850	2580	14.21	15.00	1.199	62.9	1.006	0.01	0.332	0.401
	LTE Band 38	20M	QPSK	1	99	Left Cheek	0mm	Ant 5	DSI 0	Reduced	37850	2580	14.21	15.00	1.199	62.9	1.006	-0.19	0.160	0.193
	LTE Band 38	20M	QPSK	1	99	Left Tilted	0mm	Ant 5	DSI 0	Reduced	37850	2580	14.21	15.00	1.199	62.9	1.006	-0.08	0.187	0.226
	LTE Band 38	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	37850	2580	14.11	15.00	1.227	62.9	1.006	0.1	0.381	0.470
	LTE Band 38	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	37850	2580	14.11	15.00	1.227	62.9	1.006	-0.18	0.330	0.407
	LTE Band 38	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	37850	2580	14.11	15.00	1.227	62.9	1.006	-0.12	0.155	0.191
	LTE Band 38	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	37850	2580	14.11	15.00	1.227	62.9	1.006	-0.15	0.184	0.227
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 0	DSI 0	Full	40185	2549.5	23.48	24.00	1.127	62.9	1.006	0.01	0.119	0.135
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 0	DSI 0	Full	40185	2549.5	23.48	24.00	1.127	62.9	1.006	-0.05	0.074	0.084
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 0	DSI 0	Full	40185	2549.5	23.48	24.00	1.127	62.9	1.006	-0.07	0.226	0.256
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 0	DSI 0	Full	40185	2549.5	23.48	24.00	1.127	62.9	1.006	0.15	0.041	0.046
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full	40185	2549.5	22.42	23.00	1.143	62.9	1.006	-	n/a	n/a
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full	40185	2549.5	22.42	23.00	1.143	62.9	1.006	-0.15	0.089	0.102
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full	40185	2549.5	22.42	23.00	1.143	62.9	1.006	-0.18	0.172	0.198
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full	40185	2549.5	22.42	23.00	1.143	62.9	1.006	-0.03	0.040	0.046
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 2	DSI 0	Full	40185	2549.5	25.13	25.50	1.089	62.9	1.006	0.03	0.115	0.126
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 2	DSI 0	Full	40185	2549.5	25.13	25.50	1.089	62.9	1.006	0.03	0.078	0.085
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 2	DSI 0	Full	40185	2549.5	25.13	25.50	1.089	62.9	1.006	-0.05	0.216	0.237
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 2	DSI 0	Full	40185	2549.5	25.13	25.50	1.089	62.9	1.006	-0.17	0.047	0.051
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full	40185	2549.5	24.15	24.50	1.084	62.9	1.006	0.13	0.084	0.092
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full	40185	2549.5	24.15	24.50	1.084	62.9	1.006	0.07	0.064	0.070
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full	40185	2549.5	24.15	24.50	1.084	62.9	1.006	0.03	0.163	0.178
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full	40185	2549.5	24.15	24.50	1.084	62.9	1.006	-	n/a	n/a
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	16.69	16.70	1.002	62.9	1.006	0.12	0.500	0.504
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	16.69	16.70	1.002	62.9	1.006	0.06	0.221	0.223
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	16.69	16.70	1.002	62.9	1.006	-0.14	0.145	0.146
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	16.69	16.70	1.002	62.9	1.006	0.04	0.075	0.076

	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	16.68	16.70	1.005	62.9	1.006	-0.1	0.505	0.510
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	16.68	16.70	1.005	62.9	1.006	0.14	0.224	0.226
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	16.68	16.70	1.005	62.9	1.006	0.06	0.148	0.150
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	16.68	16.70	1.005	62.9	1.006	-0.09	0.077	0.077
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	13.74	14.00	1.062	62.9	1.006	-0.16	0.404	0.431
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	13.74	14.00	1.062	62.9	1.006	-0.05	0.343	0.366
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	13.74	14.00	1.062	62.9	1.006	-0.1	0.162	0.173
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	13.74	14.00	1.062	62.9	1.006	0.19	0.178	0.190
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	13.58	14.00	1.102	62.9	1.006	0.09	0.393	0.436
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	13.58	14.00	1.102	62.9	1.006	0.05	0.335	0.371
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	13.58	14.00	1.102	62.9	1.006	0.18	0.158	0.175
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSI 0	Reduced	40185	2549.5	13.58	14.00	1.102	62.9	1.006	-0.07	0.174	0.193

<5G NR NSA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 n5	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	-0.11	0.213	0.236
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	-0.02	0.133	0.147
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	0.17	0.254	0.281
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.26	25.70	1.107	-0.04	0.121	0.134
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	0.19	0.211	0.243
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	-0.04	0.135	0.156
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	-0.09	0.247	0.285
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	167300	836.5	25.08	25.70	1.153	-0.05	0.115	0.133
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.62	21.12	1.122	0.08	0.186	0.209
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.62	21.12	1.122	0.18	0.000	0.000
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.62	21.12	1.122	0.09	0.341	0.383
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.62	21.12	1.122	-0.13	0.041	0.046
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.45	21.20	1.189	-0.07	0.244	0.290
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.45	21.20	1.189	-0.02	0.000	0.000
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.45	21.20	1.189	-0.19	0.453	0.538
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	20.45	21.20	1.189	-0.03	0.053	0.063
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	23.47	24.50	1.268	-0.1	0.271	0.344
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	23.47	24.50	1.268	-0.18	0.086	0.109
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	23.47	24.50	1.268	-0.09	0.155	0.196
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	23.47	24.50	1.268	0.19	0.085	0.108
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	23.28	24.50	1.324	0.08	0.269	0.356
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	23.28	24.50	1.324	-0.17	0.082	0.109
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full	507000	2535	23.28	24.50	1.324	-0.1	0.123	0.163
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full	507000	2535	23.28	24.50	1.324	0.16	0.057	0.075
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	21.95	22.50	1.135	-0.1	0.009	0.010
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	21.95	22.50	1.135	-0.07	0.009	0.010
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	21.95	22.50	1.135	0.15	0.021	0.024
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	21.95	22.50	1.135	-0.16	0.011	0.012
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	21.71	22.50	1.199	0.12	0.100	0.120
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	21.71	22.50	1.199	0.09	0.083	0.100
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full	507000	2535	21.71	22.50	1.199	-0.05	0.152	0.182
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full	507000	2535	21.71	22.50	1.199	-0.04	0.053	0.064
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	14.66	15.50	1.213	0.09	0.292	0.354
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	14.66	15.50	1.213	0.03	0.108	0.131
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	14.66	15.50	1.213	-0.02	0.106	0.129
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	14.66	15.50	1.213	-0.18	0.051	0.062
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	14.62	15.50	1.225	-0.09	0.403	0.494
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	14.62	15.50	1.225	-0.19	0.119	0.146
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	14.62	15.50	1.225	-0.04	0.117	0.143
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	14.62	15.50	1.225	0.1	0.054	0.066
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.28	14.00	1.180	0.16	0.443	0.523
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.28	14.00	1.180	0.09	0.337	0.398
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.28	14.00	1.180	0.05	0.167	0.197
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.28	14.00	1.180	-0.04	0.195	0.230
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.25	14.00	1.189	-0.01	0.370	0.440
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.25	14.00	1.189	0.1	0.317	0.377
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.25	14.00	1.189	0.16	0.168	0.200
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 5	DSI 0	Reduced	507000	2535	13.25	14.00	1.189	0.05	0.187	0.222
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.48	14.00	1.127	-0.09	0.290	0.327
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.48	14.00	1.127	-0.19	0.306	0.345
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.48	14.00	1.127	0.04	0.147	0.166
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.48	14.00	1.127	-0.02	0.173	0.195
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.46	14.00	1.132	-0.04	0.284	0.322
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.46	14.00	1.132	0.06	0.431	0.488
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.46	14.00	1.132	-0.04	0.155	0.176

	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	13.46	14.00	1.132	0.05	0.178	0.202
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.18	14.00	1.208	0.04	0.262	0.316
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.18	14.00	1.208	-0.14	0.297	0.359
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.18	14.00	1.208	0.15	0.150	0.181
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.18	14.00	1.208	-0.15	0.190	0.229
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.14	14.00	1.219	0.17	0.266	0.324
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.14	14.00	1.219	-0.11	0.290	0.354
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.14	14.00	1.219	-0.05	0.143	0.174
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	13.14	14.00	1.219	-0.11	0.185	0.226
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.06	15.00	1.242	-0.11	0.189	0.235
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.06	15.00	1.242	0.05	0.232	0.288
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.06	15.00	1.242	0.03	0.234	0.291
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.06	15.00	1.242	-0.08	0.262	0.325
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.05	15.00	1.245	-0.07	0.178	0.222
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.05	15.00	1.245	-0.08	0.230	0.286
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.05	15.00	1.245	-0.01	0.243	0.302
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	14.05	15.00	1.245	0.04	0.271	0.337
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.95	15.00	1.274	-0.17	0.198	0.252
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.95	15.00	1.274	0.04	0.246	0.313
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.95	15.00	1.274	0.03	0.235	0.299
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.95	15.00	1.274	-0.03	0.262	0.334
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.94	15.00	1.276	0.05	0.184	0.235
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.94	15.00	1.276	0.02	0.252	0.322
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.94	15.00	1.276	-0.1	0.234	0.299
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.94	15.00	1.276	-0.07	0.388	0.495
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.17	14.00	1.211	-0.12	0.110	0.133
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.17	14.00	1.211	-0.06	0.073	0.088
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.17	14.00	1.211	0.15	0.342	0.414
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.17	14.00	1.211	-0.07	0.173	0.209
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.12	14.00	1.225	-0.16	0.105	0.129
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.12	14.00	1.225	-0.07	0.067	0.082
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.12	14.00	1.225	-0.11	0.442	0.541
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	13.12	14.00	1.225	0.12	0.185	0.227
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.97	14.00	1.268	-0.03	0.085	0.108
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.97	14.00	1.268	-0.1	0.072	0.091
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.97	14.00	1.268	0.15	0.315	0.399
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.97	14.00	1.268	0.02	0.181	0.229
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.95	14.00	1.274	0.09	0.085	0.108
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.95	14.00	1.274	-0.07	0.064	0.082
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.95	14.00	1.274	-0.19	0.323	0.411
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	12.95	14.00	1.274	-0.15	0.171	0.218
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.29	23.50	1.321	-0.03	0.269	0.355
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.29	23.50	1.321	0.04	0.159	0.210
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.29	23.50	1.321	-0.19	0.094	0.124
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.29	23.50	1.321	-0.07	0.082	0.108
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.04	23.50	1.400	0.15	0.383	0.536
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.04	23.50	1.400	-0.14	0.195	0.273
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.04	23.50	1.400	0.13	0.122	0.171
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	633334	3500.01	22.04	23.50	1.400	-0.11	0.109	0.153
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.19	23.50	1.352	0.08	0.243	0.329
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.19	23.50	1.352	0.12	0.223	0.302
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.19	23.50	1.352	0.19	0.159	0.215
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.19	23.50	1.352	-0.08	0.212	0.287
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.03	23.50	1.403	-0.1	0.260	0.365
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.03	23.50	1.403	0.19	0.263	0.369
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.03	23.50	1.403	0.02	0.173	0.243
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 0	Reduced	650000	3750	22.03	23.50	1.403	-0.06	0.243	0.341

<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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 16	Reduced	6	2437	16.30	17.50	1.318	99.6	1.004	0.06	0.327	0.433
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 16	Reduced	6	2437	16.30	17.50	1.318	99.6	1.004	0.05	0.298	0.394
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16	Reduced	6	2437	16.30	17.50	1.318	99.6	1.004	-0.11	0.586	0.776
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16	Reduced	6	2437	16.30	17.50	1.318	99.6	1.004	0.08	0.568	0.752
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16	simultaneous	6	2437	12.10	13.50	1.380	99.6	1.004	0.01	0.229	0.317
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16	simultaneous	6	2437	12.10	13.50	1.380	99.6	1.004	0.07	0.224	0.310
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 18	Reduced	6	2437	15.90	17.50	1.445	99.6	1.004	-0.13	0.332	0.482
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 18	Reduced	6	2437	15.90	17.50	1.445	99.6	1.004	0.14	0.038	0.055
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 18	Reduced	6	2437	15.90	17.50	1.445	99.6	1.004	-0.05	0.596	0.865
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 18	Reduced	6	2437	15.90	17.50	1.445	99.6	1.004	-0.01	0.060	0.087
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 18	Reduced	1	2412	15.70	17.50	1.514	99.6	1.004	-0.12	0.654	0.994
21	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 18	Reduced	11	2462	15.80	17.50	1.479	99.6	1.004	-0.19	0.739	**1.097**
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 18	simultaneous	6	2437	11.70	13.50	1.514	99.6	1.004	0.02	0.221	0.336
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 18	simultaneous	6	2437	11.70	13.50	1.514	99.6	1.004	-0.08	0.030	0.046
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 16+18	Reduced	6	2437	19.11	20.50	1.377	99.6	1.004	0.17	0.341	0.472
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 16+18	Reduced	6	2437	19.11	20.50	1.377	99.6	1.004	0.14	0.333	0.460
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+18	Reduced	6	2437	19.11	20.50	1.377	99.6	1.004	0.09	0.665	0.920
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16+18	Reduced	6	2437	19.11	20.50	1.377	99.6	1.004	-0.12	0.660	0.913
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+18	Reduced	1	2412	18.86	20.50	1.459	99.6	1.004	0.07	0.626	0.917
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+18	Reduced	11	2462	18.96	20.50	1.426	99.6	1.004	-0.11	0.639	0.915
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16+18	Reduced	1	2412	18.86	20.50	1.459	99.6	1.004	0.03	0.610	0.893
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16+18	Reduced	11	2462	18.96	20.50	1.426	99.6	1.004	0.05	0.612	0.876
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+18	simultaneous	6	2437	14.91	16.50	1.442	99.6	1.004	-0.19	0.306	0.443
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16+18	simultaneous	6	2437	14.91	16.50	1.442	99.6	1.004	-0.06	0.259	0.375

<WLAN5G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 17	Reduced	54	5270	12.60	13.50	1.230	93.1	1.074	0.19	0.258	0.341
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 17	Reduced	54	5270	12.60	13.50	1.230	93.1	1.074	0.13	0.245	0.324
22	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 17	Reduced	54	5270	12.60	13.50	1.230	93.1	1.074	-0.07	0.668	**0.883**
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 17	Reduced	54	5270	12.60	13.50	1.230	93.1	1.074	0.17	0.639	0.844
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 17	Reduced	62	5310	12.20	13.50	1.349	93.1	1.074	0.08	0.587	0.850
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 17	Reduced	62	5310	12.20	13.50	1.349	93.1	1.074	0.07	0.545	0.790
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17	simultaneous	58	5290	7.60	9.00	1.380	87.2	1.147	0.12	0.203	0.321
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17	simultaneous	58	5290	7.60	9.00	1.380	87.2	1.147	0.02	0.183	0.290
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 18	Reduced	54	5270	11.90	13.00	1.288	93.1	1.074	-0.01	0.138	0.191
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 18	Reduced	54	5270	11.90	13.00	1.288	93.1	1.074	0.07	0.057	0.079
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 18	Reduced	54	5270	11.90	13.00	1.288	93.1	1.074	0.09	0.300	0.415
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 18	Reduced	54	5270	11.90	13.00	1.288	93.1	1.074	0.09	0.094	0.130
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 18	Reduced	58	5290	7.00	8.50	1.413	87.2	1.147	-0.1	0.196	0.318
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 18	Reduced	58	5290	7.00	8.50	1.413	87.2	1.147	0.08	0.095	0.154
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 17+18	Reduced	54	5270	15.26	15.50	1.057	93.1	1.074	0.14	0.287	0.326
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 17+18	Reduced	54	5270	15.26	15.50	1.057	93.1	1.074	-0.07	0.271	0.308
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 17+18	Reduced	54	5270	15.26	15.50	1.057	93.1	1.074	-0.19	0.692	0.785
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 17+18	Reduced	54	5270	15.26	15.50	1.057	93.1	1.074	0.05	0.456	0.518
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17+18	simultaneous	58	5290	10.31	12.00	1.476	87.2	1.147	-0.05	0.205	0.347
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	simultaneous	58	5290	10.31	12.00	1.476	87.2	1.147	0.01	0.186	0.315
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 17	Reduced	122	5610	11.70	13.00	1.349	87.2	1.147	0.11	0.176	0.272
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 17	Reduced	122	5610	11.70	13.00	1.349	87.2	1.147	-0.13	0.227	0.351
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17	Reduced	122	5610	11.70	13.00	1.349	87.2	1.147	0.15	0.284	0.439

	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17	Reduced	122	5610	11.70	13.00	1.349	87.2	1.147	-0.09	0.467	0.723
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17	Reduced	122	5610	9.10	10.00	1.230	87.2	1.147	0.05	0.245	0.346
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 18	Reduced	122	5610	11.20	12.50	1.349	87.2	1.147	-0.04	0.097	0.150
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 18	Reduced	122	5610	11.20	12.50	1.349	87.2	1.147	-0.05	0.140	0.217
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 18	Reduced	122	5610	11.20	12.50	1.349	87.2	1.147	-0.06	0.353	0.546
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 18	Reduced	122	5610	11.20	12.50	1.349	87.2	1.147	-0.17	0.073	0.113
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 18	Reduced	122	5610	8.60	9.50	1.230	87.2	1.147	-0.18	0.151	0.213
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 17+18	Reduced	122	5610	14.56	15.50	1.242	87.2	1.147	-0.12	0.215	0.306
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 17+18	Reduced	122	5610	14.56	15.50	1.242	87.2	1.147	0.05	0.212	0.302
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17+18	Reduced	122	5610	14.56	15.50	1.242	87.2	1.147	0.15	0.297	0.423
23	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	Reduced	122	5610	14.56	15.50	1.242	87.2	1.147	-0.06	0.641	**0.913**
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	Reduced	106	5530	13.27	14.50	1.327	87.2	1.147	0.13	0.231	0.352
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	Reduced	138	5690	14.16	15.50	1.361	87.2	1.147	-0.18	0.314	0.490
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	simultaneous	122	5610	11.81	12.50	1.172	87.2	1.147	-0.01	0.238	0.320
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 17	Reduced	155	5775	12.80	14.00	1.318	87	1.149	-0.19	0.179	0.271
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 17	Reduced	155	5775	12.80	14.00	1.318	87	1.149	-0.03	0.215	0.326
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17	Reduced	155	5775	12.80	14.00	1.318	87	1.149	0.14	0.283	0.429
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17	Reduced	155	5775	12.80	14.00	1.318	87	1.149	0.17	0.640	0.969
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17	Reduced	155	5775	7.90	9.50	1.445	87	1.149	-0.18	0.139	0.231
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17	Reduced	155	5775	7.90	9.50	1.445	87	1.149	-0.18	0.239	0.397
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 18	simultaneous	155	5775	12.30	13.50	1.318	87	1.149	-0.15	0.149	0.226
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 18	simultaneous	155	5775	12.30	13.50	1.318	87	1.149	-0.04	0.054	0.082
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 18	Reduced	155	5775	12.30	13.50	1.318	87	1.149	-0.07	0.463	0.701
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 18	Reduced	155	5775	12.30	13.50	1.318	87	1.149	-0.15	0.118	0.179
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 18	Reduced	155	5775	7.40	9.00	1.445	87	1.149	-0.09	0.146	0.242
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 17+18	Reduced	155	5775	15.81	17.00	1.315	87	1.149	0.13	0.232	0.351
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 17+18	Reduced	155	5775	15.81	17.00	1.315	87	1.149	0.11	0.246	0.372
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17+18	Reduced	155	5775	15.81	17.00	1.315	87	1.149	0.08	0.610	0.922
24	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	Reduced	155	5775	15.81	17.00	1.315	87	1.149	-0.05	0.710	**1.073**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	simultaneous	155	5775	10.66	12.50	1.528	87	1.149	0.17	0.208	0.365

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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	DH5 1Mbps	Right Cheek	0mm	Ant 16	Full	39	2441	17.36	18.00	1.159	76.72	1.303	-0.01	0.262	0.396
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 16	Full	39	2441	17.36	18.00	1.159	76.72	1.303	-0.16	0.247	0.373
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 16	Full	39	2441	17.36	18.00	1.159	76.72	1.303	-0.02	0.658	0.994
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 16	Full	39	2441	17.36	18.00	1.159	76.72	1.303	-0.06	0.486	0.734
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 16	Full	0	2402	16.77	18.00	1.327	76.72	1.303	0.16	0.495	0.856
25	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 16	Full	78	2480	16.99	18.00	1.262	76.72	1.303	-0.15	0.660	**1.085**
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 16	simultaneous	39	2441	7.80	8.50	1.175	76.72	1.303	0.14	0.064	0.098

15.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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	GPRS 4 TX slots	Front	10mm	Ant 0	DSI 4	Full	189	836.4	26.33	28.00	1.469	-0.09	0.377	0.554
26	GSM850	GPRS 4 TX slots	Back	10mm	Ant 0	DSI 4	Full	189	836.4	26.33	28.00	1.469	-0.15	0.443	**0.651**
	GSM850	GPRS 4 TX slots	Left Side	10mm	Ant 0	DSI 4	Full	189	836.4	26.33	28.00	1.469	-0.04	0.168	0.247
	GSM850	GPRS 4 TX slots	Right Side	10mm	Ant 0	DSI 4	Full	189	836.4	26.33	28.00	1.469	-0.19	0.157	0.231
	GSM850	GPRS 4 TX slots	Bottom Side	10mm	Ant 0	DSI 4	Full	189	836.4	26.33	28.00	1.469	-0.13	0.188	0.276
	GSM850	GPRS 4 TX slots	Front	10mm	Ant 1	DSI 4	Reduced	189	836.4	21.12	23.00	1.542	-0.03	0.210	0.324
	GSM850	GPRS 4 TX slots	Back	10mm	Ant 1	DSI 4	Reduced	189	836.4	21.12	23.00	1.542	-0.09	0.216	0.333
	GSM850	GPRS 4 TX slots	Left Side	10mm	Ant 1	DSI 4	Reduced	189	836.4	21.12	23.00	1.542	-0.15	0.388	0.598
	GSM850	GPRS 4 TX slots	Top Side	10mm	Ant 1	DSI 4	Reduced	189	836.4	21.12	23.00	1.542	0.18	0.275	0.424
	GSM1900	GPRS 4 TX slots	Front	10mm	Ant 2	DSI 4	Reduced	661	1880	22.47	23.50	1.268	0.14	0.192	0.243
	GSM1900	GPRS 4 TX slots	Back	10mm	Ant 2	DSI 4	Reduced	661	1880	22.47	23.50	1.268	-0.03	0.278	0.352
	GSM1900	GPRS 4 TX slots	Left Side	10mm	Ant 2	DSI 4	Reduced	661	1880	22.47	23.50	1.268	0.14	0.102	0.129
	GSM1900	GPRS 4 TX slots	Right Side	10mm	Ant 2	DSI 4	Reduced	661	1880	22.47	23.50	1.268	-0.15	0.047	0.060
27	GSM1900	GPRS 4 TX slots	Bottom Side	10mm	Ant 2	DSI 4	Reduced	661	1880	22.47	23.50	1.268	0.14	0.430	**0.545**
	GSM1900	GPRS 4 TX slots	Front	10mm	Ant 5	DSI 4	Reduced	661	1880	18.32	20.00	1.472	-0.15	0.071	0.105
	GSM1900	GPRS 4 TX slots	Back	10mm	Ant 5	DSI 4	Reduced	661	1880	18.32	20.00	1.472	0.12	0.067	0.099
	GSM1900	GPRS 4 TX slots	Left Side	10mm	Ant 5	DSI 4	Reduced	661	1880	18.32	20.00	1.472	-	n/a	n/a
	GSM1900	GPRS 4 TX slots	Right Side	10mm	Ant 5	DSI 4	Reduced	661	1880	18.32	20.00	1.472	-	n/a	n/a
	GSM1900	GPRS 4 TX slots	Top Side	10mm	Ant 5	DSI 4	Reduced	661	1880	18.32	20.00	1.472	0.19	0.109	0.160

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 V	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 4	Reduced	4182	836.4	22.83	24.00	1.309	-0.01	0.312	0.408
	WCDMA V	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 4	Reduced	4182	836.4	22.83	24.00	1.309	-0.14	0.399	0.522
	WCDMA V	RMC 12.2Kbps	Left Side	10mm	Ant 0	DSI 4	Reduced	4182	836.4	22.83	24.00	1.309	-0.06	0.105	0.137
	WCDMA V	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI 4	Reduced	4182	836.4	22.83	24.00	1.309	-0.13	0.126	0.165
	WCDMA V	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 4	Reduced	4182	836.4	22.83	24.00	1.309	0.08	0.151	0.198
	WCDMA V	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 4	Reduced	4182	836.4	19.06	21.00	1.563	-0.11	0.185	0.289
	WCDMA V	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 4	Reduced	4182	836.4	19.06	21.00	1.563	0.02	0.182	0.284
	WCDMA V	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 4	Reduced	4182	836.4	19.06	21.00	1.563	-0.16	0.514	0.803
	WCDMA V	RMC 12.2Kbps	Top Side	10mm	Ant 1	DSI 4	Reduced	4182	836.4	19.06	21.00	1.563	-	n/a	n/a
	WCDMA V	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 4	Reduced	4132	826.4	19.05	21.00	1.567	0.01	0.332	0.520
28	WCDMA V	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 4	Reduced	4233	846.6	19.01	21.00	1.581	0.19	0.577	**0.912**
	WCDMA IV	RMC 12.2Kbps	Front	10mm	Ant 2	DSI 4	Reduced	1413	1732.6	21.12	22.00	1.225	0.06	0.363	0.445
	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 2	DSI 4	Reduced	1413	1732.6	21.12	22.00	1.225	0.04	0.507	0.621
	WCDMA IV	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI 4	Reduced	1413	1732.6	21.12	22.00	1.225	0.03	0.140	0.171
	WCDMA IV	RMC 12.2Kbps	Right Side	10mm	Ant 2	DSI 4	Reduced	1413	1732.6	21.12	22.00	1.225	-0.15	0.084	0.103
29	WCDMA IV	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	Reduced	1413	1732.6	21.12	22.00	1.225	0.11	0.837	**1.025**
	WCDMA IV	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	Reduced	1312	1712.4	21.09	22.00	1.233	-0.02	0.634	0.782
	WCDMA IV	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	Reduced	1513	1752.6	21.06	22.00	1.242	0.19	0.755	0.937
	WCDMA IV	RMC 12.2Kbps	Front	10mm	Ant 5	DSI 4	Reduced	1413	1732.6	17.34	19.00	1.466	-0.04	0.119	0.174
	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 5	DSI 4	Reduced	1413	1732.6	17.34	19.00	1.466	-0.04	0.192	0.281
	WCDMA IV	RMC 12.2Kbps	Left Side	10mm	Ant 5	DSI 4	Reduced	1413	1732.6	17.34	19.00	1.466	0.11	0.071	0.104
	WCDMA IV	RMC 12.2Kbps	Right Side	10mm	Ant 5	DSI 4	Reduced	1413	1732.6	17.34	19.00	1.466	-	n/a	n/a
	WCDMA IV	RMC 12.2Kbps	Top Side	10mm	Ant 5	DSI 4	Reduced	1413	1732.6	17.34	19.00	1.466	-0.19	0.293	0.429
	WCDMA II	RMC 12.2Kbps	Front	10mm	Ant 2	DSI 4	Reduced	9400	1880	19.94	21.00	1.276	-0.17	0.294	0.375
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 2	DSI 4	Reduced	9400	1880	19.94	21.00	1.276	0.12	0.375	0.479
	WCDMA II	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI 4	Reduced	9400	1880	19.94	21.00	1.276	-0.16	0.133	0.170
	WCDMA II	RMC 12.2Kbps	Right Side	10mm	Ant 2	DSI 4	Reduced	9400	1880	19.94	21.00	1.276	-0.08	0.066	0.084
	WCDMA II	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	Reduced	9400	1880	19.94	21.00	1.276	0.11	0.629	0.803
	WCDMA II	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	Reduced	9262	1852.4	19.93	21.00	1.279	-0.04	0.427	0.546
30	WCDMA II	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	Reduced	9538	1907.6	19.89	21.00	1.291	0.05	0.646	**0.834**
	WCDMA II	RMC 12.2Kbps	Front	10mm	Ant 5	DSI 4	Reduced	9400	1880	17.36	19.00	1.459	0.03	0.114	0.166
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 5	DSI 4	Reduced	9400	1880	17.36	19.00	1.459	0.06	0.144	0.210
	WCDMA II	RMC 12.2Kbps	Left Side	10mm	Ant 5	DSI 4	Reduced	9400	1880	17.36	19.00	1.459	0.09	0.064	0.093
	WCDMA II	RMC 12.2Kbps	Right Side	10mm	Ant 5	DSI 4	Reduced	9400	1880	17.36	19.00	1.459	-	n/a	n/a
	WCDMA II	RMC 12.2Kbps	Top Side	10mm	Ant 5	DSI 4	Reduced	9400	1880	17.36	19.00	1.459	-0.13	0.305	0.445

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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	10M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Full	23095	707.5	25.15	25.70	1.135	-0.08	0.241	0.274
	LTE Band 12	10M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Full	23095	707.5	25.15	25.70	1.135	0.19	0.308	0.350
	LTE Band 12	10M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Full	23095	707.5	25.15	25.70	1.135	-0.04	0.048	0.054
	LTE Band 12	10M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Full	23095	707.5	25.15	25.70	1.135	0.15	0.148	0.168
	LTE Band 12	10M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Full	23095	707.5	25.15	25.70	1.135	0.09	0.108	0.123
	LTE Band 12	10M	QPSK	25	0	Front	10mm	Ant 0	DSI 4	Full	23095	707.5	24.12	24.70	1.143	-0.01	0.206	0.235
	LTE Band 12	10M	QPSK	25	0	Back	10mm	Ant 0	DSI 4	Full	23095	707.5	24.12	24.70	1.143	0.05	0.279	0.319
	LTE Band 12	10M	QPSK	25	0	Left Side	10mm	Ant 0	DSI 4	Full	23095	707.5	24.12	24.70	1.143	-	n/a	n/a
	LTE Band 12	10M	QPSK	25	0	Right Side	10mm	Ant 0	DSI 4	Full	23095	707.5	24.12	24.70	1.143	-0.02	0.123	0.141
	LTE Band 12	10M	QPSK	25	0	Bottom Side	10mm	Ant 0	DSI 4	Full	23095	707.5	24.12	24.70	1.143	0.09	0.093	0.106
	LTE Band 12	10M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	Reduced	23095	707.5	21.18	21.70	1.127	0.12	0.337	0.380
	LTE Band 12	10M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	Reduced	23095	707.5	21.18	21.70	1.127	0.1	0.303	0.342
	LTE Band 12	10M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	Reduced	23095	707.5	21.18	21.70	1.127	-0.06	0.657	0.741
	LTE Band 12	10M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	Reduced	23095	707.5	21.18	21.70	1.127	-	n/a	n/a
	LTE Band 12	10M	QPSK	25	0	Front	10mm	Ant 1	DSI 4	Reduced	23095	707.5	21.10	21.70	1.148	0.14	0.372	0.427
	LTE Band 12	10M	QPSK	25	0	Back	10mm	Ant 1	DSI 4	Reduced	23095	707.5	21.10	21.70	1.148	-0.06	0.358	0.411
31	LTE Band 12	10M	QPSK	25	0	Left Side	10mm	Ant 1	DSI 4	Reduced	23095	707.5	21.10	21.70	1.148	-0.09	0.672	**0.772**
	LTE Band 12	10M	QPSK	25	0	Top Side	10mm	Ant 1	DSI 4	Reduced	23095	707.5	21.10	21.70	1.148	-	n/a	n/a
	LTE Band 17	10M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Full	23790	710	25.15	25.70	1.135	-0.03	0.286	0.325
	LTE Band 17	10M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Full	23790	710	25.15	25.70	1.135	0.12	0.368	0.418
	LTE Band 17	10M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Full	23790	710	25.15	25.70	1.135	0.07	0.104	0.118
	LTE Band 17	10M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Full	23790	710	25.15	25.70	1.135	0.13	0.204	0.232
	LTE Band 17	10M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Full	23790	710	25.15	25.70	1.135	-0.1	0.138	0.157
	LTE Band 17	10M	QPSK	25	0	Front	10mm	Ant 0	DSI 4	Full	23790	710	24.15	24.70	1.135	-0.01	0.235	0.267
	LTE Band 17	10M	QPSK	25	0	Back	10mm	Ant 0	DSI 4	Full	23790	710	24.15	24.70	1.135	-0.16	0.290	0.329
	LTE Band 17	10M	QPSK	25	0	Left Side	10mm	Ant 0	DSI 4	Full	23790	710	24.15	24.70	1.135	-0.05	0.085	0.096
	LTE Band 17	10M	QPSK	25	0	Right Side	10mm	Ant 0	DSI 4	Full	23790	710	24.15	24.70	1.135	-0.14	0.153	0.174
	LTE Band 17	10M	QPSK	25	0	Bottom Side	10mm	Ant 0	DSI 4	Full	23790	710	24.15	24.70	1.135	0.13	0.119	0.135
	LTE Band 17	10M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	Reduced	23790	710	21.70	22.20	1.122	-0.02	0.397	0.445
	LTE Band 17	10M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	Reduced	23790	710	21.70	22.20	1.122	-0.17	0.353	0.396
	LTE Band 17	10M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	Reduced	23790	710	21.70	22.20	1.122	-0.05	0.680	0.763
	LTE Band 17	10M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	Reduced	23790	710	21.70	22.20	1.122	-	n/a	n/a
	LTE Band 17	10M	QPSK	25	0	Front	10mm	Ant 1	DSI 4	Reduced	23790	710	21.68	22.20	1.127	0.13	0.370	0.417
	LTE Band 17	10M	QPSK	25	0	Back	10mm	Ant 1	DSI 4	Reduced	23790	710	21.68	22.20	1.127	-0.12	0.379	0.427
32	LTE Band 17	10M	QPSK	25	0	Left Side	10mm	Ant 1	DSI 4	Reduced	23790	710	21.68	22.20	1.127	0.02	0.706	**0.796**
	LTE Band 17	10M	QPSK	25	0	Top Side	10mm	Ant 1	DSI 4	Reduced	23790	710	21.68	22.20	1.127	-	n/a	n/a
	LTE Band 26	15M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Full	26865	831.5	25.21	25.70	1.119	-0.04	0.486	0.544
	LTE Band 26	15M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Full	26865	831.5	25.21	25.70	1.119	0.03	0.528	0.591
	LTE Band 26	15M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Full	26865	831.5	25.21	25.70	1.119	0.02	0.177	0.198
	LTE Band 26	15M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Full	26865	831.5	25.21	25.70	1.119	-0.18	0.319	0.357
	LTE Band 26	15M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Full	26865	831.5	25.21	25.70	1.119	0.13	0.253	0.283
	LTE Band 26	15M	QPSK	36	0	Front	10mm	Ant 0	DSI 4	Full	26865	831.5	23.87	24.70	1.211	0.12	0.397	0.481
	LTE Band 26	15M	QPSK	36	0	Back	10mm	Ant 0	DSI 4	Full	26865	831.5	23.87	24.70	1.211	-0.1	0.439	0.531
	LTE Band 26	15M	QPSK	36	0	Left Side	10mm	Ant 0	DSI 4	Full	26865	831.5	23.87	24.70	1.211	-0.19	0.145	0.176
	LTE Band 26	15M	QPSK	36	0	Right Side	10mm	Ant 0	DSI 4	Full	26865	831.5	23.87	24.70	1.211	-0.18	0.251	0.304
	LTE Band 26	15M	QPSK	36	0	Bottom Side	10mm	Ant 0	DSI 4	Full	26865	831.5	23.87	24.70	1.211	-0.16	0.208	0.252
	LTE Band 26	15M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	Reduced	26865	831.5	21.88	22.70	1.208	0.07	0.207	0.250
	LTE Band 26	15M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	Reduced	26865	831.5	21.88	22.70	1.208	0.03	0.228	0.275
33	LTE Band 26	15M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	Reduced	26865	831.5	21.88	22.70	1.208	-0.16	0.551	**0.666**
	LTE Band 26	15M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	Reduced	26865	831.5	21.88	22.70	1.208	-	n/a	n/a
	LTE Band 26	15M	QPSK	36	0	Front	10mm	Ant 1	DSI 4	Reduced	26865	831.5	21.85	22.70	1.216	0.1	0.193	0.235
	LTE Band 26	15M	QPSK	36	0	Back	10mm	Ant 1	DSI 4	Reduced	26865	831.5	21.85	22.70	1.216	-0.12	0.240	0.292

	LTE Band 26	15M	QPSK	36	0	Left Side	10mm	Ant 1	DSI 4	Reduced	26865	831.5	21.85	22.70	1.216	-0.06	0.525	0.638
	LTE Band 26	15M	QPSK	36	0	Top Side	10mm	Ant 1	DSI 4	Reduced	26865	831.5	21.85	22.70	1.216	-	n/a	n/a
	LTE Band 5	10M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Reduced	20525	836.5	24.02	24.20	1.042	-0.14	0.391	0.408
	LTE Band 5	10M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Reduced	20525	836.5	24.02	24.20	1.042	0.01	0.432	0.450
	LTE Band 5	10M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	24.02	24.20	1.042	0.12	0.121	0.126
	LTE Band 5	10M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	24.02	24.20	1.042	0.12	0.105	0.109
	LTE Band 5	10M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	24.02	24.20	1.042	-0.16	0.163	0.170
	LTE Band 5	10M	QPSK	25	0	Front	10mm	Ant 0	DSI 4	Reduced	20525	836.5	23.69	24.20	1.125	0.18	0.369	0.415
	LTE Band 5	10M	QPSK	25	0	Back	10mm	Ant 0	DSI 4	Reduced	20525	836.5	23.69	24.20	1.125	0.09	0.373	0.419
	LTE Band 5	10M	QPSK	25	0	Left Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	23.69	24.20	1.125	-0.16	0.125	0.141
	LTE Band 5	10M	QPSK	25	0	Right Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	23.69	24.20	1.125	-0.02	0.154	0.173
	LTE Band 5	10M	QPSK	25	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	23.69	24.20	1.125	-0.15	0.158	0.178
	LTE Band 5	10M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	Reduced	20525	836.5	20.58	21.20	1.153	0.04	0.218	0.251
	LTE Band 5	10M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	Reduced	20525	836.5	20.58	21.20	1.153	0.13	0.212	0.245
34	LTE Band 5	10M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	Reduced	20525	836.5	20.58	21.20	1.153	0.08	0.604	**0.697**
	LTE Band 5	10M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	Reduced	20525	836.5	20.58	21.20	1.153	-	n/a	n/a
	LTE Band 5	10M	QPSK	25	0	Front	10mm	Ant 1	DSI 4	Reduced	20525	836.5	20.48	21.20	1.180	0.12	0.212	0.250
	LTE Band 5	10M	QPSK	25	0	Back	10mm	Ant 1	DSI 4	Reduced	20525	836.5	20.48	21.20	1.180	0.17	0.208	0.246
	LTE Band 5	10M	QPSK	25	0	Left Side	10mm	Ant 1	DSI 4	Reduced	20525	836.5	20.48	21.20	1.180	-0.09	0.559	0.660
	LTE Band 5	10M	QPSK	25	0	Top Side	10mm	Ant 1	DSI 4	Reduced	20525	836.5	20.48	21.20	1.180	-	n/a	n/a
	LTE Band 4	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	21.78	22.50	1.180	-0.16	0.317	0.374
35	LTE Band 4	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	21.78	22.50	1.180	-0.03	0.597	**0.705**
	LTE Band 4	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	21.78	22.50	1.180	-0.19	0.065	0.077
	LTE Band 4	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	21.78	22.50	1.180	-0.14	0.343	0.405
	LTE Band 4	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	21.78	22.50	1.180	0.12	0.258	0.305
	LTE Band 4	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	21.70	22.50	1.202	-0.07	0.295	0.355
	LTE Band 4	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	21.70	22.50	1.202	0.04	0.575	0.691
	LTE Band 4	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	21.70	22.50	1.202	-0.14	0.065	0.078
	LTE Band 4	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	21.70	22.50	1.202	-0.05	0.347	0.417
	LTE Band 4	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	21.70	22.50	1.202	-0.07	0.263	0.316
	LTE Band 4	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.86	21.00	1.033	-0.11	0.359	0.371
	LTE Band 4	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.86	21.00	1.033	0.16	0.499	0.515
	LTE Band 4	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.86	21.00	1.033	0.16	0.156	0.161
	LTE Band 4	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.86	21.00	1.033	-0.11	0.101	0.104
	LTE Band 4	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.86	21.00	1.033	0.18	0.594	0.613
	LTE Band 4	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.76	21.00	1.057	-0.06	0.358	0.378
	LTE Band 4	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.76	21.00	1.057	0.08	0.507	0.536
	LTE Band 4	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.76	21.00	1.057	0.02	0.156	0.165
	LTE Band 4	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.76	21.00	1.057	0.11	0.099	0.105
	LTE Band 4	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.76	21.00	1.057	0.03	0.650	0.687
	LTE Band 4	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	18.01	18.20	1.045	-0.08	0.130	0.136
	LTE Band 4	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	18.01	18.20	1.045	-0.11	0.141	0.147
	LTE Band 4	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	18.01	18.20	1.045	-0.02	0.258	0.270
	LTE Band 4	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	18.01	18.20	1.045	0.08	0.000	0.000
	LTE Band 4	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	17.96	18.20	1.057	-0.13	0.129	0.136
	LTE Band 4	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	17.96	18.20	1.057	-0.04	0.147	0.155
	LTE Band 4	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	17.96	18.20	1.057	0.07	0.279	0.295
	LTE Band 4	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	17.96	18.20	1.057	-	n/a	n/a
	LTE Band 4	20M	QPSK	1	0	Front	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	17.56	18.00	1.107	0.12	0.123	0.136
	LTE Band 4	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	17.56	18.00	1.107	-0.1	0.170	0.188
	LTE Band 4	20M	QPSK	1	0	Left Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	17.56	18.00	1.107	-0.07	0.061	0.068
	LTE Band 4	20M	QPSK	1	0	Right Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	17.56	18.00	1.107	-	n/a	n/a
	LTE Band 4	20M	QPSK	1	0	Top Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	17.56	18.00	1.107	0.16	0.241	0.267
	LTE Band 4	20M	QPSK	50	0	Front	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	17.47	18.00	1.130	0.1	0.124	0.140
	LTE Band 4	20M	QPSK	50	0	Back	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	17.47	18.00	1.130	0.12	0.167	0.189
	LTE Band 4	20M	QPSK	50	0	Left Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	17.47	18.00	1.130	0.07	0.062	0.070

	LTE Band 4	20M	QPSK	50	0	Right Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	17.47	18.00	1.130	-	n/a	n/a
	LTE Band 4	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	17.47	18.00	1.130	0.02	0.258	0.291
	LTE Band 2	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.43	22.00	1.140	0.06	0.295	0.336
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.43	22.00	1.140	0.08	0.409	0.466
	LTE Band 2	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.43	22.00	1.140	0.03	0.134	0.153
	LTE Band 2	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.43	22.00	1.140	0.18	0.073	0.083
	LTE Band 2	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.43	22.00	1.140	0.05	0.598	0.682
	LTE Band 2	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.42	22.00	1.143	0.06	0.311	0.355
	LTE Band 2	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.42	22.00	1.143	-0.01	0.432	0.494
	LTE Band 2	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.42	22.00	1.143	-0.09	0.143	0.163
	LTE Band 2	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.42	22.00	1.143	-0.11	0.080	0.091
36	LTE Band 2	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.42	22.00	1.143	-0.16	0.612	**0.699**
	LTE Band 2	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.21	17.50	1.346	-0.02	0.067	0.090
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.21	17.50	1.346	0.09	0.082	0.110
	LTE Band 2	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.21	17.50	1.346	-0.18	0.142	0.191
	LTE Band 2	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.21	17.50	1.346	-	n/a	n/a
	LTE Band 2	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.19	17.50	1.352	0.07	0.074	0.100
	LTE Band 2	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.19	17.50	1.352	0.17	0.091	0.123
	LTE Band 2	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.19	17.50	1.352	0.09	0.151	0.204
	LTE Band 2	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.19	17.50	1.352	-	n/a	n/a
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.68	21.50	1.208	-0.05	0.306	0.370
	LTE Band 7C	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Reduced	21100 +20902	2535 +2515.2	20.01	21.50	1.409	-0.01	0.260	0.366
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.68	21.50	1.208	-0.1	0.167	0.202
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.68	21.50	1.208	-	n/a	n/a
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.68	21.50	1.208	0.08	0.152	0.184
	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.68	21.50	1.208	0.13	0.062	0.075
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	-0.19	0.283	0.351
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	0.06	0.175	0.217
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	-	n/a	n/a
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	-0.14	0.166	0.206
	LTE Band 7	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	0.11	0.058	0.072
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	0.05	0.159	0.172
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	-0.04	0.227	0.245
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	-0.06	0.092	0.099
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	-	n/a	n/a
	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	0.06	0.356	0.385
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.11	0.188	0.206
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.01	0.245	0.269
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.11	0.085	0.093
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	0.08	0.042	0.046
	LTE Band 7	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.06	0.383	0.420
	LTE Band 7C	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	21100 +20902	2535 +2515.2	18.65	20.00	1.365	-0.14	0.238	0.325
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	Reduced	21100	2535	17.38	18.20	1.208	0.1	0.135	0.163
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	Reduced	21100	2535	17.38	18.20	1.208	-0.1	0.186	0.225
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	17.38	18.20	1.208	0.04	0.348	0.420
	LTE Band 7	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	17.38	18.20	1.208	-	n/a	n/a
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	21100	2535	17.25	18.20	1.245	0.09	0.144	0.179
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	21100	2535	17.25	18.20	1.245	0.16	0.206	0.256
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	17.25	18.20	1.245	0.05	0.362	0.451
	LTE Band 7C	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	21100 +20902	2535 +2515.2	16.74	18.20	1.400	0.11	0.321	0.449
	LTE Band 7	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	17.25	18.20	1.245	0.07	0.000	0.000
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 5	DSI 4	Reduced	21100	2535	14.27	15.50	1.327	-0.01	0.052	0.069
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 4	Reduced	21100	2535	14.27	15.50	1.327	0.13	0.105	0.139
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	14.27	15.50	1.327	0.17	0.052	0.069

	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	14.27	15.50	1.327	-	n/a	n/a
	LTE Band 7	20M	QPSK	1	0	Top Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	14.27	15.50	1.327	-0.14	0.170	0.226
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 5	DSI 4	Reduced	21100	2535	14.17	15.50	1.358	0.13	0.057	0.077
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 5	DSI 4	Reduced	21100	2535	14.17	15.50	1.358	-0.19	0.102	0.139
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	14.17	15.50	1.358	-0.02	0.054	0.073
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	14.17	15.50	1.358	-	n/a	n/a
	LTE Band 7	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	14.17	15.50	1.358	0.11	0.184	0.250
	LTE Band 7C	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	21100 +20902	2535 +2515.2	13.87	15.50	1.455	-0.05	0.171	0.249

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 38	20M	QPSK	1	99	Front	10mm	Ant 0	DSI 4	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	-0.17	0.160	0.198
	LTE Band 38	20M	QPSK	1	99	Back	10mm	Ant 0	DSI 4	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	0.08	0.191	0.237
	LTE Band 38	20M	QPSK	1	99	Left Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Right Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	-0.07	0.194	0.241
	LTE Band 38	20M	QPSK	1	99	Bottom Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	-0.12	0.293	0.363
	LTE Band 38	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	0.11	0.151	0.197
	LTE Band 38	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	0.15	0.208	0.271
	LTE Band 38	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	-0.14	0.180	0.234
	LTE Band 38	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	-0.11	0.285	0.371
	LTE Band 38C	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	37850 +38048	2580 +2599.8	22.05	23.00	1.245	62.9	1.006	-0.15	0.290	0.363
	LTE Band 38	20M	QPSK	1	99	Front	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	-0.04	0.207	0.235
	LTE Band 38	20M	QPSK	1	99	Back	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	-0.05	0.269	0.306
	LTE Band 38	20M	QPSK	1	99	Left Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	0.01	0.080	0.091
	LTE Band 38	20M	QPSK	1	99	Right Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Bottom Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	-0.03	0.365	0.415
	LTE Band 38	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	0.04	0.207	0.238
	LTE Band 38	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	-0.13	0.267	0.307
	LTE Band 38	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	0.16	0.089	0.102
	LTE Band 38	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	0.08	0.380	0.437
	LTE Band 38C	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	37850 +38048	2580 +2599.8	21.19	22.00	1.205	62.9	1.006	-0.13	0.374	0.453
	LTE Band 38	20M	QPSK	1	99	Front	10mm	Ant 3	DSI 4	Reduced	37850	2580	20.18	20.20	1.005	62.9	1.006	0.13	0.176	0.178
	LTE Band 38	20M	QPSK	1	99	Back	10mm	Ant 3	DSI 4	Reduced	37850	2580	20.18	20.20	1.005	62.9	1.006	-0.16	0.238	0.241
	LTE Band 38	20M	QPSK	1	99	Left Side	10mm	Ant 3	DSI 4	Reduced	37850	2580	20.18	20.20	1.005	62.9	1.006	-0.11	0.562	0.568
	LTE Band 38	20M	QPSK	1	99	Top Side	10mm	Ant 3	DSI 4	Reduced	37850	2580	20.18	20.20	1.005	62.9	1.006	-0.01	0.043	0.043
	LTE Band 38	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	37850	2580	20.16	20.20	1.009	62.9	1.006	0.09	0.176	0.179
	LTE Band 38	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	37850	2580	20.16	20.20	1.009	62.9	1.006	-0.17	0.254	0.258
38	LTE Band 38	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	37850	2580	20.16	20.20	1.009	62.9	1.006	0.06	0.583	**0.592**
	LTE Band 38	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	37850	2580	20.16	20.20	1.009	62.9	1.006	-0.16	0.040	0.041
	LTE Band 38C	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	37850 +38048	2580 +2599.8	20.04	20.20	1.038	62.9	1.006	0.12	0.450	0.470
	LTE Band 38	20M	QPSK	1	99	Front	10mm	Ant 5	DSI 4	Reduced	37850	2580	17.21	18.00	1.199	62.9	1.006	-0.01	0.096	0.116
	LTE Band 38	20M	QPSK	1	99	Back	10mm	Ant 5	DSI 4	Reduced	37850	2580	17.21	18.00	1.199	62.9	1.006	0.08	0.128	0.154
	LTE Band 38	20M	QPSK	1	99	Left Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	17.21	18.00	1.199	62.9	1.006	-0.06	0.101	0.122
	LTE Band 38	20M	QPSK	1	99	Right Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	17.21	18.00	1.199	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Top Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	17.21	18.00	1.199	62.9	1.006	0.13	0.182	0.220
	LTE Band 38	20M	QPSK	50	0	Front	10mm	Ant 5	DSI 4	Reduced	37850	2580	17.11	18.00	1.227	62.9	1.006	-0.04	0.090	0.111
	LTE Band 38	20M	QPSK	50	0	Back	10mm	Ant 5	DSI 4	Reduced	37850	2580	17.11	18.00	1.227	62.9	1.006	-0.09	0.124	0.153
	LTE Band 38	20M	QPSK	50	0	Left Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	17.11	18.00	1.227	62.9	1.006	-0.02	0.109	0.135
	LTE Band 38	20M	QPSK	50	0	Right Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	17.11	18.00	1.227	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	17.11	18.00	1.227	62.9	1.006	0.14	0.191	0.236

	LTE Band 38C	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	37850 38048	2580 2599.8	16.63	18.00	1.371	62.9	1.006	-0.18	0.190	0.262
	LTE Band 41	20M	QPSK	1	99	Front	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-0.07	0.147	0.167
	LTE Band 41	20M	QPSK	1	99	Back	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	0.13	0.142	0.161
	LTE Band 41	20M	QPSK	1	99	Left Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-	n/a	n/a
	LTE Band 41	20M	QPSK	1	99	Right Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-0.11	0.092	0.104
	LTE Band 41	20M	QPSK	1	99	Bottom Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-0.15	0.042	0.048
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	-0.08	0.238	0.271
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	-0.12	0.136	0.155
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	-0.11	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	0.18	0.109	0.124
	LTE Band 41	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	0.03	0.042	0.048
	LTE Band 41	20M	QPSK	1	99	Front	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	-0.09	0.198	0.201
	LTE Band 41	20M	QPSK	1	99	Back	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	-0.19	0.253	0.257
	LTE Band 41	20M	QPSK	1	99	Left Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	-0.19	0.086	0.087
	LTE Band 41	20M	QPSK	1	99	Right Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	0.09	0.043	0.044
39	LTE Band 41	20M	QPSK	1	99	Bottom Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	0.16	0.371	**0.377**
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	0.12	0.195	0.203
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	-0.02	0.274	0.285
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	-0.05	0.088	0.091
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	-0.08	0.045	0.047
	LTE Band 41	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	-0.01	0.355	0.369
	LTE Band 41	20M	QPSK	1	99	Front	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	20.19	20.20	1.002	62.9	1.006	0.05	0.168	0.169
	LTE Band 41	20M	QPSK	1	99	Back	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	20.19	20.20	1.002	62.9	1.006	0.18	0.249	0.251
	LTE Band 41	20M	QPSK	1	99	Left Side	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	20.19	20.20	1.002	62.9	1.006	-0.13	0.322	0.325
	LTE Band 41	20M	QPSK	1	99	Top Side	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	20.19	20.20	1.002	62.9	1.006	-0.13	0.046	0.046
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	20.18	20.20	1.005	62.9	1.006	0.11	0.165	0.167
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	20.18	20.20	1.005	62.9	1.006	0.17	0.242	0.245
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	20.18	20.20	1.005	62.9	1.006	-0.09	0.332	0.336
	LTE Band 41	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	20.18	20.20	1.005	62.9	1.006	-0.14	0.126	0.127
	LTE Band 41	20M	QPSK	1	99	Front	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	18.24	18.50	1.062	62.9	1.006	0.02	0.116	0.124
	LTE Band 41	20M	QPSK	1	99	Back	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	18.24	18.50	1.062	62.9	1.006	0.09	0.141	0.151
	LTE Band 41	20M	QPSK	1	99	Left Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	18.24	18.50	1.062	62.9	1.006	0.18	0.092	0.098
	LTE Band 41	20M	QPSK	1	99	Right Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	18.24	18.50	1.062	62.9	1.006	-	n/a	n/a
	LTE Band 41	20M	QPSK	1	99	Top Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	18.24	18.50	1.062	62.9	1.006	-0.18	0.206	0.220
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	18.08	18.50	1.102	62.9	1.006	0.02	0.119	0.132
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	18.08	18.50	1.102	62.9	1.006	-0.1	0.134	0.148
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	18.08	18.50	1.102	62.9	1.006	0.13	0.097	0.107
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	18.08	18.50	1.102	62.9	1.006	-	n/a	n/a
	LTE Band 41	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	18.08	18.50	1.102	62.9	1.006	-0.15	0.210	0.233

<LTE UL CA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 4_Other PA	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	22.92	23.00	1.019	-0.19	0.346	0.352
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	22.92	23.00	1.019	-0.06	0.360	0.367
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	22.92	23.00	1.019	-0.11	0.069	0.070
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	22.92	23.00	1.019	0.08	0.401	0.408
	LTE Band 4_Other PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	22.92	23.00	1.019	-0.18	0.013	0.013
	LTE Band 4_Other PA	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	22.91	23.00	1.021	0.02	0.349	0.356
	LTE Band 4_Other PA	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	22.91	23.00	1.021	-0.17	0.365	0.373
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	22.91	23.00	1.021	0.03	0.067	0.068
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	22.91	23.00	1.021	-0.12	0.418	0.427
	LTE Band 4_Other PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	20175	1732.5	22.91	23.00	1.021	-0.14	0.014	0.014
	LTE Band 4_Other PA	20M	QPSK	1	0	Front	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	16.40	16.50	1.023	-0.11	0.213	0.218
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	16.40	16.50	1.023	0.19	0.244	0.250
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	16.40	16.50	1.023	-0.05	0.102	0.104
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	16.40	16.50	1.023	0.08	0.041	0.042
	LTE Band 4_Other PA	20M	QPSK	1	0	Top Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	16.40	16.50	1.023	-0.05	0.468	0.479
	LTE Band 4_Other PA	20M	QPSK	50	0	Front	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	16.37	16.50	1.030	0.03	0.211	0.217
	LTE Band 4_Other PA	20M	QPSK	50	0	Back	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	16.37	16.50	1.030	-0.19	0.242	0.249
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	16.37	16.50	1.030	0.18	0.097	0.100
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	16.37	16.50	1.030	0.03	0.042	0.043
	LTE Band 4_Other PA	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	20175	1732.5	16.37	16.50	1.030	0.14	0.447	0.461
	LTE Band 4	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.45	20.50	1.012	-0.18	0.276	0.279
	LTE Band 4	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.45	20.50	1.012	0.08	0.388	0.392
	LTE Band 4	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.45	20.50	1.012	0.16	0.160	0.162
	LTE Band 4	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.45	20.50	1.012	0.17	0.105	0.106
	LTE Band 4	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.45	20.50	1.012	-0.19	0.466	0.471
	LTE Band 4	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.43	20.50	1.016	-0.08	0.374	0.380
	LTE Band 4	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.43	20.50	1.016	-0.18	0.384	0.390
	LTE Band 4	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.43	20.50	1.016	0.19	0.155	0.158
	LTE Band 4	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.43	20.50	1.016	0.08	0.103	0.105
	LTE Band 4	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	20175	1732.5	20.43	20.50	1.016	-0.16	0.461	0.468
	LTE Band 4	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	16.51	16.70	1.045	-0.08	0.130	0.136
	LTE Band 4	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	16.51	16.70	1.045	-0.11	0.141	0.147
	LTE Band 4	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	16.51	16.70	1.045	-0.02	0.228	0.238
	LTE Band 4	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	16.51	16.70	1.045	0.08	0.000	0.000
	LTE Band 4	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	16.46	16.70	1.057	-0.13	0.129	0.136
	LTE Band 4	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	16.46	16.70	1.057	-0.04	0.147	0.155
	LTE Band 4	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	16.46	16.70	1.057	0.07	0.279	0.295
	LTE Band 4	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	20175	1732.5	16.46	16.70	1.057	-	n/a	n/a
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.29	22.00	1.178	-0.04	0.166	0.195
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.29	22.00	1.178	0.05	0.302	0.356
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.29	22.00	1.178	0.13	0.009	0.011
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.29	22.00	1.178	0.03	0.228	0.268
	LTE Band 7_Other PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.29	22.00	1.178	0.12	0.392	0.462
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.27	22.00	1.183	-0.13	0.163	0.193
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.27	22.00	1.183	-0.14	0.300	0.355
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.27	22.00	1.183	-0.09	0.008	0.009
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.27	22.00	1.183	0.08	0.225	0.266
	LTE Band 7_Other PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.27	22.00	1.183	0.1	0.390	0.461
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.47	17.50	1.268	-0.03	0.160	0.203
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.47	17.50	1.268	0.02	0.207	0.262
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.47	17.50	1.268	-0.01	0.109	0.138
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.47	17.50	1.268	0.15	0.011	0.014

	LTE Band 7_Other PA	20M	QPSK	1	0	Top Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.47	17.50	1.268	-0.18	0.290	0.368
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.37	17.50	1.297	-0.17	0.159	0.206
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.37	17.50	1.297	-0.06	0.204	0.265
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.37	17.50	1.297	0.08	0.107	0.139
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.37	17.50	1.297	-0.06	0.010	0.013
	LTE Band 7_Other PA	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.37	17.50	1.297	-0.04	0.263	0.341
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	0.05	0.159	0.172
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	-0.04	0.227	0.245
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	-0.06	0.092	0.099
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	-	n/a	n/a
	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	0.06	0.246	0.266
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.11	0.188	0.206
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.01	0.245	0.269
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.11	0.085	0.093
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	0.08	0.042	0.046
	LTE Band 7	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.06	0.383	0.420
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.88	16.70	1.208	0.1	0.135	0.163
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.88	16.70	1.208	-0.1	0.186	0.225
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.88	16.70	1.208	0.04	0.298	0.360
	LTE Band 7	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.88	16.70	1.208	-	n/a	n/a
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.75	16.70	1.245	0.09	0.144	0.179
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.75	16.70	1.245	0.16	0.206	0.256
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.75	16.70	1.245	0.05	0.362	0.451
	LTE Band 7	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.75	16.70	1.245	0.07	0.000	0.000

<5GNR SA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 n5	20M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	167300	836.5	24.76	25.20	1.107	-0.1	0.421	0.466
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	167300	836.5	24.76	25.20	1.107	0.19	0.530	0.587
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	24.76	25.20	1.107	0.06	0.150	0.166
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	24.76	25.20	1.107	0.12	0.255	0.282
	FR1 n5	20M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	24.76	25.20	1.107	0.16	0.213	0.236
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	167300	836.5	24.58	25.20	1.153	0.06	0.458	0.528
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	167300	836.5	24.58	25.20	1.153	0.03	0.541	0.624
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	24.58	25.20	1.153	-0.04	0.158	0.182
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	24.58	25.20	1.153	0.07	0.264	0.305
	FR1 n5	20M	BPSK	50	28	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	24.58	25.20	1.153	-0.19	0.217	0.250
	FR1 n5	20M	BPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	Reduced	167300	836.5	22.12	22.70	1.143	0.06	0.215	0.246
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	Reduced	167300	836.5	22.12	22.70	1.143	0.02	0.261	0.298
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	22.12	22.70	1.143	0.14	0.575	0.657
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	22.12	22.70	1.143	0.16	0.023	0.026
	FR1 n5	20M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	22.12	22.70	1.143	0.03	0.010	0.011
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	10mm	Ant 1	DSI 4	Reduced	167300	836.5	21.95	22.70	1.189	0.03	0.232	0.276
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	10mm	Ant 1	DSI 4	Reduced	167300	836.5	21.95	22.70	1.189	-0.12	0.281	0.334
40	FR1 n5	20M	BPSK	50	28	DFT-15	Left Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	21.95	22.70	1.189	-0.01	0.596	**0.708**
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	21.95	22.70	1.189	0.01	0.025	0.030
	FR1 n5	20M	BPSK	50	28	DFT-15	Top Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	21.95	22.70	1.189	-0.18	0.011	0.013
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.41	23.00	1.442	0.06	0.325	0.469
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.41	23.00	1.442	-0.14	0.145	0.209
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.41	23.00	1.442	-	n/a	n/a
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.41	23.00	1.442	-0.08	0.168	0.242
	FR1 n7	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.41	23.00	1.442	-0.12	0.089	0.128
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.38	23.00	1.452	-0.14	0.348	0.505
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.38	23.00	1.452	-0.03	0.168	0.244
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.38	23.00	1.452	-	n/a	n/a
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.38	23.00	1.452	0.04	0.172	0.250
	FR1 n7	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.38	23.00	1.452	0.19	0.087	0.126
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.89	20.50	1.151	0.06	0.200	0.230
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.89	20.50	1.151	-0.03	0.289	0.333
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.89	20.50	1.151	-0.04	0.103	0.119
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.89	20.50	1.151	0.15	0.033	0.038
	FR1 n7	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.89	20.50	1.151	-0.18	0.305	0.351
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.88	20.50	1.153	0.03	0.223	0.257
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.88	20.50	1.153	-0.08	0.313	0.361
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.88	20.50	1.153	0.04	0.117	0.135
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.88	20.50	1.153	-0.19	0.037	0.043
	FR1 n7	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.88	20.50	1.153	-0.02	0.326	0.376
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 3	DSI 4	Reduced	507000	2535	17.12	17.70	1.143	0.19	0.145	0.166
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 3	DSI 4	Reduced	507000	2535	17.12	17.70	1.143	0.12	0.214	0.245
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	17.12	17.70	1.143	-0.15	0.322	0.368
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	17.12	17.70	1.143	-	n/a	n/a
	FR1 n7	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	17.12	17.70	1.143	-0.07	0.040	0.046
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 3	DSI 4	Reduced	507000	2535	17.07	17.70	1.156	0.18	0.152	0.176
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 3	DSI 4	Reduced	507000	2535	17.07	17.70	1.156	0.05	0.221	0.256
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	17.07	17.70	1.156	0.02	0.342	0.395
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	17.07	17.70	1.156	-	n/a	n/a
	FR1 n7	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	17.07	17.70	1.156	-0.06	0.045	0.052
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 5	DSI 4	Reduced	507000	2535	15.01	16.00	1.256	0.18	0.110	0.138
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 5	DSI 4	Reduced	507000	2535	15.01	16.00	1.256	0.12	0.168	0.211

	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	15.01	16.00	1.256	-0.03	0.088	0.111
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	15.01	16.00	1.256	-0.07	0.012	0.015
	FR1 n7	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	15.01	16.00	1.256	0.1	0.201	0.252
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 5	DSI 4	Reduced	507000	2535	14.98	16.00	1.265	0.01	0.117	0.148
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 5	DSI 4	Reduced	507000	2535	14.98	16.00	1.265	-0.14	0.174	0.220
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	14.98	16.00	1.265	0.15	0.095	0.120
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	14.98	16.00	1.265	-0.01	0.015	0.019
	FR1 n7	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	14.98	16.00	1.265	-0.11	0.207	0.262
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.76	22.00	1.330	-0.09	0.179	0.238
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.76	22.00	1.330	0.14	0.292	0.388
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.76	22.00	1.330	-	n/a	n/a
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.76	22.00	1.330	0.18	0.264	0.351
	FR1 n38	40M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.76	22.00	1.330	-0.07	0.419	0.557
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.70	22.00	1.349	-0.12	0.180	0.243
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.70	22.00	1.349	-0.18	0.318	0.429
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.70	22.00	1.349	0.01	n/a	n/a
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.70	22.00	1.349	-0.16	0.282	0.380
42	FR1 n38	40M	BPSK	50	28	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.70	22.00	1.349	0.13	0.442	**0.596**
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.92	20.50	1.143	-0.11	0.247	0.282
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.92	20.50	1.143	-0.14	0.346	0.395
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.92	20.50	1.143	0.17	0.119	0.136
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.92	20.50	1.143	0.16	0.058	0.066
	FR1 n38	40M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.92	20.50	1.143	-0.12	0.445	0.509
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.79	20.50	1.178	-0.04	0.274	0.323
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.79	20.50	1.178	0.18	0.354	0.417
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.79	20.50	1.178	0.02	0.133	0.157
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.79	20.50	1.178	-0.01	0.063	0.074
	FR1 n38	40M	BPSK	50	28	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.79	20.50	1.178	0.07	0.459	0.541
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 3	DSI 4	Reduced	519000	2595	18.65	18.70	1.012	-0.08	0.170	0.172
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 3	DSI 4	Reduced	519000	2595	18.65	18.70	1.012	0.13	0.234	0.237
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	18.65	18.70	1.012	0.08	0.485	0.491
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	18.65	18.70	1.012	-	n/a	n/a
	FR1 n38	40M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	18.65	18.70	1.012	-0.07	0.038	0.038
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 3	DSI 4	Reduced	519000	2595	18.60	18.70	1.023	-0.02	0.175	0.179
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 3	DSI 4	Reduced	519000	2595	18.60	18.70	1.023	-0.09	0.242	0.248
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	18.60	18.70	1.023	0.02	0.508	0.520
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	18.60	18.70	1.023	-	n/a	n/a
	FR1 n38	40M	BPSK	50	28	DFT-30	Top Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	18.60	18.70	1.023	0.04	0.040	0.041
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	Reduced	519000	2595	15.06	16.00	1.242	0.04	0.122	0.151
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	Reduced	519000	2595	15.06	16.00	1.242	0.19	0.163	0.202
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	15.06	16.00	1.242	0.15	0.130	0.161
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	15.06	16.00	1.242	-	n/a	n/a
	FR1 n38	40M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	15.06	16.00	1.242	-0.03	0.170	0.211
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 5	DSI 4	Reduced	519000	2595	14.85	16.00	1.303	0.08	0.134	0.175
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 5	DSI 4	Reduced	519000	2595	14.85	16.00	1.303	-0.12	0.180	0.235
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	14.85	16.00	1.303	-0.02	0.166	0.216
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	14.85	16.00	1.303	-0.13	0.044	0.057
	FR1 n38	40M	BPSK	50	28	DFT-30	Top Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	14.85	16.00	1.303	-0.19	0.191	0.249
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 0	DSI 4	Reduced	518598	2592.99	20.69	21.50	1.205	-0.08	0.163	0.196
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	Reduced	518598	2592.99	20.69	21.50	1.205	0.14	0.284	0.342
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 0	DSI 4	Reduced	518598	2592.99	20.69	21.50	1.205	0.18	0.002	0.002
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 0	DSI 4	Reduced	518598	2592.99	20.69	21.50	1.205	-0.15	0.245	0.295
	FR1 n41	100M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	Reduced	518598	2592.99	20.69	21.50	1.205	-0.03	0.382	0.460
	FR1 n41	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 0	DSI 4	Reduced	518598	2592.99	20.68	21.50	1.208	0.01	0.182	0.220
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 0	DSI 4	Reduced	518598	2592.99	20.68	21.50	1.208	0.06	0.323	0.390
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 0	DSI 4	Reduced	518598	2592.99	20.68	21.50	1.208	-0.14	0.003	0.004

	FR1 n41	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 0	DSI 4	Reduced	518598	2592.99	20.68	21.50	1.208	-0.19	0.269	0.325
43	FR1 n41	100M	BPSK	135	69	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	Reduced	518598	2592.99	20.68	21.50	1.208	0.14	0.408	**0.493**
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 2	DSI 4	Reduced	518598	2592.99	19.53	20.00	1.114	0.06	0.224	0.250
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 2	DSI 4	Reduced	518598	2592.99	19.53	20.00	1.114	0.03	0.323	0.360
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 2	DSI 4	Reduced	518598	2592.99	19.53	20.00	1.114	0.13	0.108	0.120
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 2	DSI 4	Reduced	518598	2592.99	19.53	20.00	1.114	0.16	0.050	0.056
	FR1 n41	100M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	Reduced	518598	2592.99	19.53	20.00	1.114	-0.16	0.357	0.398
	FR1 n41	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 2	DSI 4	Reduced	518598	2592.99	19.52	20.00	1.117	-0.09	0.241	0.269
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 2	DSI 4	Reduced	518598	2592.99	19.52	20.00	1.117	0.15	0.351	0.392
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 2	DSI 4	Reduced	518598	2592.99	19.52	20.00	1.117	-0.17	0.113	0.126
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 2	DSI 4	Reduced	518598	2592.99	19.52	20.00	1.117	0.15	0.052	0.058
	FR1 n41	100M	BPSK	135	69	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	Reduced	518598	2592.99	19.52	20.00	1.117	0.18	0.389	0.434
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 3	DSI 4	Reduced	518598	2592.99	18.03	18.20	1.040	-0.07	0.159	0.165
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 3	DSI 4	Reduced	518598	2592.99	18.03	18.20	1.040	-0.16	0.215	0.224
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 3	DSI 4	Reduced	518598	2592.99	18.03	18.20	1.040	-0.06	0.405	0.421
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 3	DSI 4	Reduced	518598	2592.99	18.03	18.20	1.040	-	n/a	n/a
	FR1 n41	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 3	DSI 4	Reduced	518598	2592.99	18.03	18.20	1.040	-0.02	0.048	0.050
	FR1 n41	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 3	DSI 4	Reduced	518598	2592.99	17.99	18.20	1.050	0.03	0.185	0.194
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 3	DSI 4	Reduced	518598	2592.99	17.99	18.20	1.050	0.08	0.232	0.243
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 3	DSI 4	Reduced	518598	2592.99	17.99	18.20	1.050	0.08	0.439	0.461
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 3	DSI 4	Reduced	518598	2592.99	17.99	18.20	1.050	-	n/a	n/a
	FR1 n41	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 3	DSI 4	Reduced	518598	2592.99	17.99	18.20	1.050	0.01	0.051	0.054
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	Reduced	518598	2592.99	15.19	16.00	1.205	-0.12	0.122	0.147
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	Reduced	518598	2592.99	15.19	16.00	1.205	-0.11	0.193	0.233
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	Reduced	518598	2592.99	15.19	16.00	1.205	-0.11	0.118	0.142
	FR1 n41	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	Reduced	518598	2592.99	15.19	16.00	1.205	-	n/a	n/a
	FR1 n41	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	Reduced	518598	2592.99	15.19	16.00	1.205	-0.07	0.205	0.247
	FR1 n41	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 5	DSI 4	Reduced	518598	2592.99	15.14	16.00	1.219	-0.17	0.130	0.158
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 5	DSI 4	Reduced	518598	2592.99	15.14	16.00	1.219	0.13	0.216	0.263
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 5	DSI 4	Reduced	518598	2592.99	15.14	16.00	1.219	0.13	0.129	0.157
	FR1 n41	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 5	DSI 4	Reduced	518598	2592.99	15.14	16.00	1.219	-	n/a	n/a
	FR1 n41	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 5	DSI 4	Reduced	518598	2592.99	15.14	16.00	1.219	-0.06	0.217	0.265
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.99	16.20	1.050	0.01	0.116	0.122
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.99	16.20	1.050	-0.18	0.214	0.225
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.99	16.20	1.050	0.01	0.068	0.071
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.99	16.20	1.050	-	n/a	n/a
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.99	16.20	1.050	-0.03	0.283	0.297
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.95	16.20	1.059	-0.14	0.137	0.145
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.95	16.20	1.059	-0.03	0.232	0.246
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.95	16.20	1.059	0.05	0.068	0.072
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.95	16.20	1.059	-	n/a	n/a
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.95	16.20	1.059	0.09	0.309	0.327
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	656000	3840	15.85	16.20	1.084	0.15	0.086	0.093
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	656000	3840	15.85	16.20	1.084	-0.02	0.180	0.195
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	656000	3840	15.85	16.20	1.084	-0.11	0.061	0.066
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	656000	3840	15.85	16.20	1.084	-	n/a	n/a
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	656000	3840	15.85	16.20	1.084	-0.02	0.199	0.216
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	656000	3840	15.84	16.20	1.086	-0.16	0.145	0.158
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	656000	3840	15.84	16.20	1.086	0.11	0.272	0.296
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	656000	3840	15.84	16.20	1.086	0.09	0.091	0.099
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	656000	3840	15.84	16.20	1.086	0.16	0.032	0.035
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	656000	3840	15.84	16.20	1.086	-0.07	0.298	0.324
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.23	17.50	1.340	-0.07	0.092	0.123
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.23	17.50	1.340	-0.12	0.072	0.096
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.23	17.50	1.340	0.01	0.102	0.137
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.23	17.50	1.340	-	n/a	n/a

	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.23	17.50	1.340	-0.03	0.158	0.212
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.15	17.50	1.365	0.07	0.112	0.153
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.15	17.50	1.365	-0.04	0.097	0.132
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.15	17.50	1.365	-0.17	0.105	0.143
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.15	17.50	1.365	-	n/a	n/a
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.15	17.50	1.365	0.09	0.166	0.227
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	656000	3840	16.13	17.50	1.371	-0.1	0.097	0.133
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	656000	3840	16.13	17.50	1.371	0.02	0.087	0.119
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	656000	3840	16.13	17.50	1.371	-0.03	0.107	0.147
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	656000	3840	16.13	17.50	1.371	-	n/a	n/a
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	656000	3840	16.13	17.50	1.371	0.09	0.158	0.217
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	656000	3840	16.10	17.50	1.380	-0.12	0.093	0.128
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	656000	3840	16.10	17.50	1.380	0.13	0.088	0.121
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	656000	3840	16.10	17.50	1.380	0.18	0.049	0.068
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	656000	3840	16.10	17.50	1.380	-	n/a	n/a
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	656000	3840	16.10	17.50	1.380	-0.08	0.162	0.224
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	14.36	15.50	1.300	0.01	0.100	0.130
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	14.36	15.50	1.300	0.13	0.126	0.164
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	14.36	15.50	1.300	-	n/a	n/a
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	14.36	15.50	1.300	0.02	0.229	0.298
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	14.36	15.50	1.300	-0.08	0.061	0.079
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	14.33	15.50	1.309	-0.04	0.097	0.132
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	14.33	15.50	1.309	0.08	0.131	0.172
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	14.33	15.50	1.309	-0.03	n/a	n/a
44	FR1 n77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	14.33	15.50	1.309	0.11	0.251	**0.329**
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	14.33	15.50	1.309	0.07	0.087	0.114
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	656000	3840	14.04	15.50	1.400	0.03	0.075	0.105
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	656000	3840	14.04	15.50	1.400	0.18	0.085	0.119
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	656000	3840	14.04	15.50	1.400	-	n/a	n/a
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	656000	3840	14.04	15.50	1.400	0.12	0.197	0.276
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	656000	3840	14.04	15.50	1.400	0.15	0.087	0.122
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	656000	3840	14.02	15.50	1.406	0.05	0.076	0.107
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	656000	3840	14.02	15.50	1.406	0.17	0.089	0.125
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	656000	3840	14.02	15.50	1.406	-	n/a	n/a
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	656000	3840	14.02	15.50	1.406	-0.04	0.201	0.283
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	656000	3840	14.02	15.50	1.406	-0.01	0.095	0.134
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	15.47	16.20	1.183	-0.08	0.055	0.065
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	15.47	16.20	1.183	0.18	0.205	0.243
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	15.47	16.20	1.183	-0.14	0.088	0.104
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	15.47	16.20	1.183	-	n/a	n/a
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	15.47	16.20	1.183	-0.1	0.087	0.103
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	15.43	16.20	1.194	-0.1	0.066	0.079
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	15.43	16.20	1.194	-0.12	0.230	0.275
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	15.43	16.20	1.194	-0.16	0.104	0.124
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	15.43	16.20	1.194	-	n/a	n/a
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	15.43	16.20	1.194	-0.1	0.092	0.110
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	656000	3840	15.21	16.20	1.256	-	n/a	n/a
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	656000	3840	15.21	16.20	1.256	0.05	0.147	0.185
	FR1 n77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	656000	3840	15.21	16.20	1.256	0.08	0.094	0.118
	FR1 n77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	656000	3840	15.21	16.20	1.256	-0.03	0.011	0.014
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	656000	3840	15.21	16.20	1.256	-0.06	0.054	0.068
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	656000	3840	15.13	16.20	1.279	-	n/a	n/a
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	656000	3840	15.13	16.20	1.279	-0.18	0.158	0.202
	FR1 n77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	656000	3840	15.13	16.20	1.279	-0.09	0.098	0.125
	FR1 n77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	656000	3840	15.13	16.20	1.279	-0.11	0.015	0.019
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	656000	3840	15.13	16.20	1.279	-0.11	0.072	0.092

	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.48	16.00	1.127	0.14	0.102	0.115
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.48	16.00	1.127	0.03	0.168	0.189
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.48	16.00	1.127	0.18	0.029	0.033
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.48	16.00	1.127	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.48	16.00	1.127	0.13	0.210	0.237
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.46	16.00	1.132	-0.06	0.109	0.123
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.46	16.00	1.132	0.1	0.197	0.223
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.46	16.00	1.132	-0.07	0.069	0.078
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.46	16.00	1.132	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	15.46	16.00	1.132	0.08	0.254	0.288
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	650000	3750	15.18	16.00	1.208	0.15	0.072	0.087
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	650000	3750	15.18	16.00	1.208	-0.03	0.157	0.190
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	15.18	16.00	1.208	0.04	0.049	0.059
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	15.18	16.00	1.208	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	15.18	16.00	1.208	-0.17	0.212	0.256
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	650000	3750	15.14	16.00	1.219	-0.01	0.084	0.102
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	650000	3750	15.14	16.00	1.219	0.18	0.166	0.202
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	15.14	16.00	1.219	-0.08	0.057	0.069
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	15.14	16.00	1.219	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	15.14	16.00	1.219	-0.05	0.215	0.262
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.63	17.50	1.222	-0.08	0.062	0.076
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.63	17.50	1.222	0.11	0.077	0.094
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.63	17.50	1.222	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.63	17.50	1.222	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.63	17.50	1.222	-0.09	0.178	0.217
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.56	17.50	1.242	-0.01	0.085	0.106
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.56	17.50	1.242	0.07	0.100	0.124
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.56	17.50	1.242	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.56	17.50	1.242	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	16.56	17.50	1.242	0.14	0.213	0.264
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	650000	3750	16.54	17.50	1.247	-0.16	0.101	0.126
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	650000	3750	16.54	17.50	1.247	0.02	0.114	0.142
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	16.54	17.50	1.247	-0.03	0.057	0.071
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	16.54	17.50	1.247	-0.09	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	16.54	17.50	1.247	0.01	0.269	0.336
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	650000	3750	16.48	17.50	1.265	0.11	0.107	0.135
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	650000	3750	16.48	17.50	1.265	0.08	0.123	0.156
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	16.48	17.50	1.265	0.15	0.050	0.063
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	16.48	17.50	1.265	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	16.48	17.50	1.265	-0.01	0.257	0.325
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	15.17	16.00	1.211	0.04	0.144	0.174
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	15.17	16.00	1.211	0.19	0.181	0.219
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	15.17	16.00	1.211	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	15.17	16.00	1.211	0.05	0.285	0.345
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	15.17	16.00	1.211	-0.11	0.084	0.102
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	15.12	16.00	1.225	0.07	0.146	0.179
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	15.12	16.00	1.225	0.18	0.192	0.235
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	15.12	16.00	1.225	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	15.12	16.00	1.225	0.03	0.294	0.360
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	15.12	16.00	1.225	0.03	0.095	0.116
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	650000	3750	14.97	16.00	1.268	0.18	0.098	0.124
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	650000	3750	14.97	16.00	1.268	0.12	0.115	0.146
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	14.97	16.00	1.268	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	14.97	16.00	1.268	-0.04	0.238	0.302
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	14.97	16.00	1.268	0.15	0.081	0.103
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	650000	3750	14.95	16.00	1.274	-0.07	0.103	0.131

	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	650000	3750	14.95	16.00	1.274	-0.09	0.132	0.168
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	14.95	16.00	1.274	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	14.95	16.00	1.274	-0.19	0.240	0.306
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	14.95	16.00	1.274	-0.05	0.078	0.099
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	0.09	0.266	0.346
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	-0.06	0.172	0.224
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	0.18	0.046	0.060
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	-0.06	n/a	n/a
45	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	-0.14	0.272	**0.363**
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	-0.15	0.169	0.225
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	0.03	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	0.16	0.048	0.064
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.07	0.031	0.042
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.14	0.216	0.289
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.07	0.134	0.180
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.1	0.076	0.102
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	-0.04	0.051	0.069
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	-0.06	0.221	0.298
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	0.18	0.142	0.192
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	0.1	0.093	0.125

<5G NR UL CA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 n5	20M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.86	24.20	1.081	0.11	0.391	0.423
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.86	24.20	1.081	-0.13	0.479	0.518
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.86	24.20	1.081	0.09	0.147	0.159
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.86	24.20	1.081	-0.12	0.218	0.236
	FR1 n5	20M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.86	24.20	1.081	0.19	0.198	0.214
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.68	24.20	1.127	-0.09	0.392	0.442
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.68	24.20	1.127	-0.13	0.482	0.543
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.68	24.20	1.127	0.02	0.156	0.176
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.68	24.20	1.127	-0.12	0.228	0.257
	FR1 n5	20M	BPSK	50	28	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.68	24.20	1.127	-0.12	0.212	0.239
	FR1 n5	20M	BPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.71	20.20	1.119	0.15	0.237	0.265
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.71	20.20	1.119	-0.06	0.268	0.300
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.71	20.20	1.119	0.17	0.485	0.543
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.71	20.20	1.119	0.16	0.019	0.021
	FR1 n5	20M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.71	20.20	1.119	-0.09	0.012	0.013
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.69	20.20	1.125	0.12	0.248	0.279
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.69	20.20	1.125	-0.16	0.272	0.306
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.69	20.20	1.125	0.03	0.400	0.450
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.69	20.20	1.125	-0.03	0.023	0.026
	FR1 n5	20M	BPSK	50	28	DFT-15	Top Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.69	20.20	1.125	0.01	0.007	0.008
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.41	23.00	1.442	0.06	0.295	0.425
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.41	23.00	1.442	-0.14	0.125	0.180
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.41	23.00	1.442	-	n/a	n/a
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.41	23.00	1.442	-0.08	0.168	0.242
	FR1 n7	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.41	23.00	1.442	-0.12	0.252	0.363
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.38	23.00	1.452	-0.14	0.348	0.505
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.38	23.00	1.452	-0.03	0.168	0.244
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.38	23.00	1.452	-	n/a	n/a
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.38	23.00	1.452	0.04	0.172	0.250
	FR1 n7	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.38	23.00	1.452	0.19	0.321	0.466
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.89	20.50	1.151	0.06	0.170	0.196
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.89	20.50	1.151	-0.03	0.209	0.241
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.89	20.50	1.151	-0.04	0.080	0.092
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.89	20.50	1.151	0.15	0.021	0.024
	FR1 n7	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.89	20.50	1.151	-0.18	0.250	0.288
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.88	20.50	1.153	0.03	0.223	0.257
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.88	20.50	1.153	-0.08	0.313	0.361
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.88	20.50	1.153	0.04	0.117	0.135
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.88	20.50	1.153	-0.19	0.037	0.043
	FR1 n7	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.88	20.50	1.153	-0.02	0.326	0.376
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 3	DSI 4	Reduced	507000	2535	15.62	16.20	1.143	0.19	0.145	0.166
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 3	DSI 4	Reduced	507000	2535	15.62	16.20	1.143	0.12	0.214	0.245
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	15.62	16.20	1.143	-0.15	0.292	0.334
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	15.62	16.20	1.143	-	n/a	n/a
	FR1 n7	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	15.62	16.20	1.143	-0.07	0.040	0.046
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 3	DSI 4	Reduced	507000	2535	15.57	16.20	1.156	0.18	0.152	0.176
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 3	DSI 4	Reduced	507000	2535	15.57	16.20	1.156	0.05	0.221	0.256
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	15.57	16.20	1.156	0.02	0.342	0.395
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	15.57	16.20	1.156	-	n/a	n/a
	FR1 n7	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	15.57	16.20	1.156	-0.06	0.045	0.052
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 5	DSI 4	Reduced	507000	2535	13.01	14.00	1.256	0.18	0.110	0.138
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 5	DSI 4	Reduced	507000	2535	13.01	14.00	1.256	0.12	0.133	0.167

	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	13.01	14.00	1.256	-0.03	0.068	0.085
	FR1 n7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	13.01	14.00	1.256	-0.07	0.000	0.000
	FR1 n7	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	13.01	14.00	1.256	0.1	0.154	0.193
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 5	DSI 4	Reduced	507000	2535	12.98	14.00	1.265	0.01	0.117	0.148
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 5	DSI 4	Reduced	507000	2535	12.98	14.00	1.265	-0.14	0.174	0.220
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	12.98	14.00	1.265	0.15	0.095	0.120
	FR1 n7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	12.98	14.00	1.265	-0.01	0.015	0.019
	FR1 n7	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	12.98	14.00	1.265	-0.11	0.207	0.262
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.76	21.50	1.186	-0.01	0.174	0.206
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.76	21.50	1.186	0.06	0.328	0.389
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.76	21.50	1.186	-0.06	0.000	0.000
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.76	21.50	1.186	0.18	0.384	0.455
	FR1 n38	40M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.76	21.50	1.186	0.05	0.407	0.483
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.70	21.50	1.202	0.15	0.178	0.214
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.70	21.50	1.202	-0.06	0.332	0.399
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.70	21.50	1.202	0.19	0.000	0.000
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.70	21.50	1.202	-0.02	0.287	0.345
	FR1 n38	40M	BPSK	50	28	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	Reduced	519000	2595	20.70	21.50	1.202	0.03	0.413	0.497
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.92	20.50	1.143	-0.11	0.237	0.271
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.92	20.50	1.143	-0.14	0.286	0.327
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.92	20.50	1.143	0.17	0.099	0.113
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.92	20.50	1.143	0.16	0.043	0.049
	FR1 n38	40M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.92	20.50	1.143	-0.12	0.445	0.509
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.79	20.50	1.178	-0.04	0.274	0.323
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.79	20.50	1.178	0.18	0.414	0.488
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.79	20.50	1.178	0.02	0.133	0.157
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.79	20.50	1.178	-0.01	0.063	0.074
	FR1 n38	40M	BPSK	50	28	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	Reduced	519000	2595	19.79	20.50	1.178	0.07	0.459	0.541
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 3	DSI 4	Reduced	519000	2595	16.65	16.70	1.012	-0.08	0.170	0.172
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 3	DSI 4	Reduced	519000	2595	16.65	16.70	1.012	0.13	0.234	0.237
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	16.65	16.70	1.012	0.08	0.335	0.339
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	16.65	16.70	1.012	-	n/a	n/a
	FR1 n38	40M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	16.65	16.70	1.012	-0.07	0.000	0.000
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 3	DSI 4	Reduced	519000	2595	16.60	16.70	1.023	-0.02	0.175	0.179
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 3	DSI 4	Reduced	519000	2595	16.60	16.70	1.023	-0.09	0.242	0.248
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	16.60	16.70	1.023	0.02	0.508	0.520
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	16.60	16.70	1.023	-	n/a	n/a
	FR1 n38	40M	BPSK	50	28	DFT-30	Top Side	10mm	Ant 3	DSI 4	Reduced	519000	2595	16.60	16.70	1.023	0.04	0.040	0.041
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	Reduced	519000	2595	13.06	14.00	1.242	0.04	0.122	0.151
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	Reduced	519000	2595	13.06	14.00	1.242	0.19	0.163	0.202
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	13.06	14.00	1.242	0.15	0.130	0.161
	FR1 n38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	13.06	14.00	1.242	-	n/a	n/a
	FR1 n38	40M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	13.06	14.00	1.242	-0.03	0.170	0.211
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 5	DSI 4	Reduced	519000	2595	12.85	14.00	1.303	0.08	0.134	0.175
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 5	DSI 4	Reduced	519000	2595	12.85	14.00	1.303	-0.12	0.180	0.235
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	12.85	14.00	1.303	-0.02	0.166	0.216
	FR1 n38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	12.85	14.00	1.303	-0.13	0.044	0.057
	FR1 n38	40M	BPSK	50	28	DFT-30	Top Side	10mm	Ant 5	DSI 4	Reduced	519000	2595	12.85	14.00	1.303	-0.19	0.191	0.249
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.48	14.00	1.127	0.14	0.102	0.115
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.48	14.00	1.127	0.03	0.168	0.189
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.48	14.00	1.127	0.18	0.029	0.033
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.48	14.00	1.127	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.48	14.00	1.127	0.13	0.210	0.237
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.46	14.00	1.132	-0.06	0.109	0.123
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.46	14.00	1.132	0.1	0.197	0.223
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.46	14.00	1.132	-0.07	0.069	0.078

	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.46	14.00	1.132	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.46	14.00	1.132	0.08	0.254	0.288
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.18	14.00	1.208	0.15	0.072	0.087
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.18	14.00	1.208	-0.03	0.157	0.190
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.18	14.00	1.208	0.04	0.049	0.059
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.18	14.00	1.208	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.18	14.00	1.208	-0.17	0.212	0.256
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.14	14.00	1.219	-0.01	0.084	0.102
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.14	14.00	1.219	0.18	0.166	0.202
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.14	14.00	1.219	-0.08	0.057	0.069
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.14	14.00	1.219	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.14	14.00	1.219	-0.05	0.215	0.262
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.06	15.00	1.242	-0.08	0.062	0.077
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.06	15.00	1.242	0.11	0.077	0.096
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.06	15.00	1.242	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.06	15.00	1.242	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.06	15.00	1.242	-0.09	0.178	0.221
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.05	15.00	1.245	-0.01	0.085	0.106
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.05	15.00	1.245	0.07	0.100	0.124
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.05	15.00	1.245	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.05	15.00	1.245	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.05	15.00	1.245	0.14	0.213	0.265
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.95	15.00	1.274	-0.16	0.101	0.129
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.95	15.00	1.274	0.02	0.114	0.145
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.95	15.00	1.274	-0.03	0.057	0.073
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.95	15.00	1.274	-0.09	0.000	0.000
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.95	15.00	1.274	0.01	0.269	0.343
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.94	15.00	1.276	0.11	0.107	0.137
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.94	15.00	1.276	0.08	0.123	0.157
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.94	15.00	1.276	0.15	0.050	0.064
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.94	15.00	1.276	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.94	15.00	1.276	-0.01	0.197	0.251
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.17	14.00	1.211	0.04	0.144	0.174
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.17	14.00	1.211	0.19	0.181	0.219
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.17	14.00	1.211	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.17	14.00	1.211	0.05	0.285	0.345
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.17	14.00	1.211	-0.11	0.084	0.102
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.12	14.00	1.225	0.07	0.146	0.179
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.12	14.00	1.225	0.18	0.192	0.235
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.12	14.00	1.225	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.12	14.00	1.225	0.01	0.294	0.360
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.12	14.00	1.225	0.03	0.095	0.116
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.97	14.00	1.268	0.18	0.098	0.124
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.97	14.00	1.268	0.12	0.115	0.146
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.97	14.00	1.268	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.97	14.00	1.268	-0.04	0.238	0.302
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.97	14.00	1.268	0.15	0.081	0.103
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.95	14.00	1.274	-0.07	0.103	0.131
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.95	14.00	1.274	-0.09	0.132	0.168
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.95	14.00	1.274	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.95	14.00	1.274	-0.19	0.240	0.306
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.95	14.00	1.274	-0.05	0.078	0.099
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	0.09	0.166	0.216
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	-0.06	0.102	0.133
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	-	n/a	n/a

	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	0.18	0.046	0.060
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	-0.06	0.000	0.000
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	-0.14	0.272	0.363
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	-0.15	0.119	0.159
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	0.03	0.000	0.000
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	0.16	0.048	0.064
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.07	0.031	0.042
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.14	0.216	0.289
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.07	0.134	0.180
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.1	0.076	0.102
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	-0.04	0.051	0.069
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	-0.06	0.221	0.298
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	0.18	0.142	0.192
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	0.1	0.093	0.125

<EN-DC SAR>

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.43	22.00	1.140	0.06	0.295	0.336
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.43	22.00	1.140	0.08	0.409	0.466
	LTE Band 2	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.43	22.00	1.140	0.03	0.134	0.153
	LTE Band 2	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.43	22.00	1.140	0.18	0.073	0.083
	LTE Band 2	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.43	22.00	1.140	0.05	0.598	0.682
	LTE Band 2	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.42	22.00	1.143	0.06	0.311	0.355
	LTE Band 2	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.42	22.00	1.143	-0.01	0.432	0.494
	LTE Band 2	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.42	22.00	1.143	-0.09	0.143	0.163
	LTE Band 2	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.42	22.00	1.143	-0.11	0.080	0.091
	LTE Band 2	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	18700	1860	21.42	22.00	1.143	-0.16	0.612	0.699
	LTE Band 2	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.21	17.50	1.346	-0.02	0.067	0.090
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.21	17.50	1.346	0.09	0.082	0.110
	LTE Band 2	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.21	17.50	1.346	-0.18	0.142	0.191
	LTE Band 2	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.21	17.50	1.346	-	n/a	n/a
	LTE Band 2	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.19	17.50	1.352	0.07	0.074	0.100
	LTE Band 2	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.19	17.50	1.352	0.17	0.091	0.123
	LTE Band 2	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.19	17.50	1.352	0.09	0.151	0.204
	LTE Band 2	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	18700	1860	16.19	17.50	1.352	-	n/a	n/a
	LTE Band 5	10M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Reduced	20525	836.5	24.02	24.20	1.042	-0.14	0.391	0.408
	LTE Band 5	10M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Reduced	20525	836.5	24.02	24.20	1.042	0.01	0.462	0.482
	LTE Band 5	10M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	24.02	24.20	1.042	0.12	0.121	0.126
	LTE Band 5	10M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	24.02	24.20	1.042	0.12	0.105	0.109
	LTE Band 5	10M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	24.02	24.20	1.042	-0.16	0.163	0.170
	LTE Band 5	10M	QPSK	25	0	Front	10mm	Ant 0	DSI 4	Reduced	20525	836.5	23.69	24.20	1.125	0.18	0.369	0.415
	LTE Band 5	10M	QPSK	25	0	Back	10mm	Ant 0	DSI 4	Reduced	20525	836.5	23.69	24.20	1.125	0.09	0.373	0.419
	LTE Band 5	10M	QPSK	25	0	Left Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	23.69	24.20	1.125	-0.16	0.125	0.141
	LTE Band 5	10M	QPSK	25	0	Right Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	23.69	24.20	1.125	-0.02	0.154	0.173
	LTE Band 5	10M	QPSK	25	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	20525	836.5	23.69	24.20	1.125	-0.15	0.158	0.178
	LTE Band 5	10M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	Reduced	20525	836.5	19.95	20.70	1.189	-0.1	0.205	0.244
	LTE Band 5	10M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	Reduced	20525	836.5	19.95	20.70	1.189	0.14	0.238	0.283
	LTE Band 5	10M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	Reduced	20525	836.5	19.95	20.70	1.189	0.14	0.453	0.538
	LTE Band 5	10M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	Reduced	20525	836.5	19.95	20.70	1.189	0.17	0.006	0.008
	LTE Band 5	10M	QPSK	25	0	Front	10mm	Ant 1	DSI 4	Reduced	20525	836.5	19.94	20.70	1.191	0.01	0.200	0.238
	LTE Band 5	10M	QPSK	25	0	Back	10mm	Ant 1	DSI 4	Reduced	20525	836.5	19.94	20.70	1.191	-0.16	0.237	0.282

	LTE Band 5	10M	QPSK	25	0	Left Side	10mm	Ant 1	DSI 4	Reduced	20525	836.5	19.94	20.70	1.191	-0.13	0.450	0.536
	LTE Band 5	10M	QPSK	25	0	Top Side	10mm	Ant 1	DSI 4	Reduced	20525	836.5	19.94	20.70	1.191	0.08	0.006	0.007
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.29	22.00	1.178	-0.04	0.166	0.195
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.29	22.00	1.178	0.05	0.302	0.356
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.29	22.00	1.178	0.13	0.009	0.011
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.29	22.00	1.178	0.03	0.228	0.268
	LTE Band 7_Other PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.29	22.00	1.178	0.12	0.392	0.462
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.27	22.00	1.183	-0.13	0.163	0.193
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.27	22.00	1.183	-0.14	0.300	0.355
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.27	22.00	1.183	-0.09	0.008	0.009
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.27	22.00	1.183	0.08	0.225	0.266
	LTE Band 7_Other PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	21.27	22.00	1.183	0.1	0.390	0.461
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	0.09	0.251	0.312
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	0.03	0.397	0.493
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	-0.11	0.119	0.148
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	-0.1	0.056	0.070
	LTE Band 7_Other PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	0.15	0.376	0.467
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	21100	2535	20.53	21.50	1.250	-0.18	0.260	0.325
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	21100	2535	20.53	21.50	1.250	-0.03	0.404	0.505
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	20.53	21.50	1.250	-0.18	0.123	0.154
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	20.53	21.50	1.250	0.01	0.057	0.071
	LTE Band 7_Other PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	20.53	21.50	1.250	-0.08	0.384	0.480
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	Reduced	21100	2535	14.70	16.00	1.349	0.18	0.128	0.173
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	Reduced	21100	2535	14.70	16.00	1.349	-0.05	0.235	0.317
37	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	14.70	16.00	1.349	0.13	0.397	**0.536**
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	14.70	16.00	1.349	0.08	0.005	0.007
	LTE Band 7_Other PA	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	14.70	16.00	1.349	0.05	0.041	0.055
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	21100	2535	14.61	16.00	1.377	0.03	0.125	0.172
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	21100	2535	14.61	16.00	1.377	-0.14	0.224	0.308
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	14.61	16.00	1.377	-0.14	0.308	0.424
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	14.61	16.00	1.377	-0.18	0.003	0.004
	LTE Band 7_Other PA	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	14.61	16.00	1.377	-0.06	0.031	0.043
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.47	17.50	1.268	-0.03	0.160	0.203
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.47	17.50	1.268	0.02	0.207	0.262
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.47	17.50	1.268	-0.01	0.109	0.138
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.47	17.50	1.268	0.15	0.011	0.014
	LTE Band 7_Other PA	20M	QPSK	1	0	Top Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.47	17.50	1.268	-0.18	0.290	0.368
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.37	17.50	1.297	-0.17	0.159	0.206
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.37	17.50	1.297	-0.06	0.204	0.265
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.37	17.50	1.297	0.08	0.107	0.139
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.37	17.50	1.297	-0.06	0.010	0.013
	LTE Band 7_Other PA	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	16.37	17.50	1.297	-0.04	0.263	0.341
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.68	21.50	1.208	-0.05	0.306	0.370
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.68	21.50	1.208	-0.1	0.167	0.202
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.68	21.50	1.208	-	n/a	n/a
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.68	21.50	1.208	0.08	0.152	0.184
	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.68	21.50	1.208	0.13	0.062	0.075
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	-0.19	0.233	0.289
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	0.06	0.175	0.217
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	-	n/a	n/a
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	-0.14	0.166	0.206
	LTE Band 7	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	21100	2535	20.56	21.50	1.242	0.11	0.058	0.072
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	0.05	0.159	0.172
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	-0.04	0.227	0.245
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	-0.06	0.092	0.099
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	-	n/a	n/a

	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.66	20.00	1.081	0.06	0.246	0.266
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.11	0.188	0.206
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.01	0.245	0.269
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.11	0.085	0.093
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	0.08	0.042	0.046
	LTE Band 7	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	21100	2535	19.60	20.00	1.096	-0.06	0.383	0.420
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.88	16.70	1.208	0.1	0.135	0.163
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.88	16.70	1.208	-0.1	0.186	0.225
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.88	16.70	1.208	0.04	0.298	0.360
	LTE Band 7	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.88	16.70	1.208	-	n/a	n/a
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.75	16.70	1.245	0.09	0.144	0.179
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.75	16.70	1.245	0.16	0.206	0.256
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.75	16.70	1.245	0.05	0.362	0.451
	LTE Band 7	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	21100	2535	15.75	16.70	1.245	0.07	n/a	n/a
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 5	DSI 4	Reduced	21100	2535	12.27	13.50	1.327	-0.01	0.052	0.069
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 5	DSI 4	Reduced	21100	2535	12.27	13.50	1.327	0.13	0.105	0.139
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	12.27	13.50	1.327	0.17	0.052	0.069
	LTE Band 7	20M	QPSK	1	0	Right Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	12.27	13.50	1.327	-	n/a	n/a
	LTE Band 7	20M	QPSK	1	0	Top Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	12.27	13.50	1.327	-0.14	0.130	0.173
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 5	DSI 4	Reduced	21100	2535	12.17	13.50	1.358	0.13	0.057	0.077
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 5	DSI 4	Reduced	21100	2535	12.17	13.50	1.358	-0.19	0.092	0.125
	LTE Band 7	20M	QPSK	50	0	Left Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	12.17	13.50	1.358	-0.02	0.054	0.073
	LTE Band 7	20M	QPSK	50	0	Right Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	12.17	13.50	1.358	-	n/a	n/a
	LTE Band 7	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	21100	2535	12.17	13.50	1.358	0.11	0.184	0.250

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 38	20M	QPSK	1	99	Front	10mm	Ant 0	DSI 4	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	-0.17	0.160	0.198
	LTE Band 38	20M	QPSK	1	99	Back	10mm	Ant 0	DSI 4	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	0.08	0.191	0.237
	LTE Band 38	20M	QPSK	1	99	Left Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Right Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	-0.07	0.194	0.241
	LTE Band 38	20M	QPSK	1	99	Bottom Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	-0.12	0.293	0.363
	LTE Band 38	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	0.11	0.099	0.129
	LTE Band 38	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	0.15	0.208	0.271
	LTE Band 38	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	-0.14	0.180	0.234
	LTE Band 38	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	-0.11	0.285	0.371
	LTE Band 38	20M	QPSK	1	99	Front	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	-0.04	0.207	0.235
	LTE Band 38	20M	QPSK	1	99	Back	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	-0.05	0.269	0.306
	LTE Band 38	20M	QPSK	1	99	Left Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	0.01	0.080	0.091
	LTE Band 38	20M	QPSK	1	99	Right Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Bottom Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	-0.03	0.305	0.347
	LTE Band 38	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	0.04	0.207	0.238
	LTE Band 38	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	-0.13	0.267	0.307
	LTE Band 38	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	0.16	0.089	0.102
	LTE Band 38	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	0.08	0.380	0.437
	LTE Band 38	20M	QPSK	1	99	Front	10mm	Ant 3	DSI 4	Reduced	37850	2580	17.18	17.20	1.005	62.9	1.006	-0.08	0.220	0.222
	LTE Band 38	20M	QPSK	1	99	Back	10mm	Ant 3	DSI 4	Reduced	37850	2580	17.18	17.20	1.005	62.9	1.006	0.17	0.300	0.303
	LTE Band 38	20M	QPSK	1	99	Left Side	10mm	Ant 3	DSI 4	Reduced	37850	2580	17.18	17.20	1.005	62.9	1.006	-0.13	0.456	0.461
	LTE Band 38	20M	QPSK	1	99	Top Side	10mm	Ant 3	DSI 4	Reduced	37850	2580	17.18	17.20	1.005	62.9	1.006	-0.02	0.059	0.059
	LTE Band 38	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	37850	2580	17.16	17.20	1.009	62.9	1.006	-0.18	0.208	0.211
	LTE Band 38	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	37850	2580	17.16	17.20	1.009	62.9	1.006	-0.18	0.285	0.289

	LTE Band 38	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	37850	2580	17.16	17.20	1.009	62.9	1.006	0.13	0.439	0.446
	LTE Band 38	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	37850	2580	17.16	17.20	1.009	62.9	1.006	-0.09	0.056	0.057
	LTE Band 38	20M	QPSK	1	99	Front	10mm	Ant 5	DSI 4	Reduced	37850	2580	14.21	15.00	1.199	62.9	1.006	-0.01	0.096	0.116
	LTE Band 38	20M	QPSK	1	99	Back	10mm	Ant 5	DSI 4	Reduced	37850	2580	14.21	15.00	1.199	62.9	1.006	0.08	0.128	0.154
	LTE Band 38	20M	QPSK	1	99	Left Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	14.21	15.00	1.199	62.9	1.006	-0.06	0.101	0.122
	LTE Band 38	20M	QPSK	1	99	Right Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	14.21	15.00	1.199	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	1	99	Top Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	14.21	15.00	1.199	62.9	1.006	0.13	0.142	0.171
	LTE Band 38	20M	QPSK	50	0	Front	10mm	Ant 5	DSI 4	Reduced	37850	2580	14.11	15.00	1.227	62.9	1.006	-0.04	0.090	0.111
	LTE Band 38	20M	QPSK	50	0	Back	10mm	Ant 5	DSI 4	Reduced	37850	2580	14.11	15.00	1.227	62.9	1.006	-0.09	0.124	0.153
	LTE Band 38	20M	QPSK	50	0	Left Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	14.11	15.00	1.227	62.9	1.006	-0.02	0.109	0.135
	LTE Band 38	20M	QPSK	50	0	Right Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	14.11	15.00	1.227	62.9	1.006	-	n/a	n/a
	LTE Band 38	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	37850	2580	14.11	15.00	1.227	62.9	1.006	0.14	0.191	0.236
	LTE Band 41	20M	QPSK	1	99	Front	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-0.07	0.147	0.167
	LTE Band 41	20M	QPSK	1	99	Back	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	0.13	0.142	0.161
	LTE Band 41	20M	QPSK	1	99	Left Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-	n/a	n/a
	LTE Band 41	20M	QPSK	1	99	Right Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-0.11	0.092	0.104
	LTE Band 41	20M	QPSK	1	99	Bottom Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-0.15	0.042	0.048
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	-0.08	0.238	0.271
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	-0.12	0.136	0.155
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	-0.11	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	0.18	0.109	0.124
	LTE Band 41	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	0.03	0.042	0.048
	LTE Band 41	20M	QPSK	1	99	Front	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	-0.09	0.198	0.201
	LTE Band 41	20M	QPSK	1	99	Back	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	-0.19	0.253	0.257
	LTE Band 41	20M	QPSK	1	99	Left Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	-0.19	0.086	0.087
	LTE Band 41	20M	QPSK	1	99	Right Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	0.09	0.043	0.044
	LTE Band 41	20M	QPSK	1	99	Bottom Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	0.16	0.371	0.377
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	0.12	0.195	0.203
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	-0.02	0.274	0.285
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	-0.05	0.088	0.091
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	-0.08	0.045	0.047
	LTE Band 41	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	-0.01	0.285	0.296
	LTE Band 41	20M	QPSK	1	99	Front	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	16.69	16.70	1.002	62.9	1.006	0.05	0.076	0.077
	LTE Band 41	20M	QPSK	1	99	Back	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	16.69	16.70	1.002	62.9	1.006	0.18	0.112	0.113
	LTE Band 41	20M	QPSK	1	99	Left Side	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	16.69	16.70	1.002	62.9	1.006	-0.13	0.145	0.146
	LTE Band 41	20M	QPSK	1	99	Top Side	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	16.69	16.70	1.002	62.9	1.006	-0.13	0.021	0.021
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	16.68	16.70	1.005	62.9	1.006	0.11	0.074	0.075
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	16.68	16.70	1.005	62.9	1.006	0.17	0.109	0.110
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	16.68	16.70	1.005	62.9	1.006	-0.09	0.146	0.148
	LTE Band 41	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	Reduced	40185	2549.5	16.68	16.70	1.005	62.9	1.006	-0.14	0.057	0.058
	LTE Band 41	20M	QPSK	1	99	Front	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	13.74	14.00	1.062	62.9	1.006	0.02	0.116	0.124
	LTE Band 41	20M	QPSK	1	99	Back	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	13.74	14.00	1.062	62.9	1.006	0.09	0.141	0.151
	LTE Band 41	20M	QPSK	1	99	Left Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	13.74	14.00	1.062	62.9	1.006	0.18	0.092	0.098
	LTE Band 41	20M	QPSK	1	99	Right Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	13.74	14.00	1.062	62.9	1.006	-	n/a	n/a
	LTE Band 41	20M	QPSK	1	99	Top Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	13.74	14.00	1.062	62.9	1.006	-0.18	0.176	0.188
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	13.58	14.00	1.102	62.9	1.006	0.02	0.119	0.132
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	13.58	14.00	1.102	62.9	1.006	-0.1	0.134	0.148
	LTE Band 41	20M	QPSK	50	0	Left Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	13.58	14.00	1.102	62.9	1.006	0.13	0.097	0.107
	LTE Band 41	20M	QPSK	50	0	Right Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	13.58	14.00	1.102	62.9	1.006	-	n/a	n/a
	LTE Band 41	20M	QPSK	50	0	Top Side	10mm	Ant 5	DSI 4	Reduced	40185	2549.5	13.58	14.00	1.102	62.9	1.006	-0.15	0.210	0.233

<5GNR NSA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 n5	20M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.86	24.20	1.081	0.11	0.391	0.423
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.86	24.20	1.081	-0.13	0.479	0.518
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.86	24.20	1.081	0.09	0.147	0.159
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.86	24.20	1.081	-0.12	0.218	0.236
	FR1 n5	20M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.86	24.20	1.081	0.19	0.198	0.214
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.68	24.20	1.127	-0.09	0.392	0.442
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.68	24.20	1.127	-0.13	0.482	0.543
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.68	24.20	1.127	0.02	0.156	0.176
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.68	24.20	1.127	-0.12	0.228	0.257
	FR1 n5	20M	BPSK	50	28	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	167300	836.5	23.68	24.20	1.127	-0.12	0.212	0.239
	FR1 n5	20M	BPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.71	20.20	1.119	0.15	0.237	0.265
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.71	20.20	1.119	-0.06	0.268	0.300
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.71	20.20	1.119	0.17	0.485	0.543
	FR1 n5	20M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.71	20.20	1.119	0.16	0.019	0.021
	FR1 n5	20M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.71	20.20	1.119	-0.09	0.012	0.013
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.69	20.20	1.125	0.12	0.248	0.279
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.69	20.20	1.125	-0.16	0.272	0.306
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.69	20.20	1.125	0.03	0.400	0.450
	FR1 n5	20M	BPSK	50	28	DFT-15	Right Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.69	20.20	1.125	-0.03	0.023	0.026
	FR1 n5	20M	BPSK	50	28	DFT-15	Top Side	10mm	Ant 1	DSI 4	Reduced	167300	836.5	19.69	20.20	1.125	0.01	0.007	0.008
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.49	22.50	1.262	0.15	0.307	0.387
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.49	22.50	1.262	0.03	0.198	0.250
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.49	22.50	1.262	-0.1	0.007	0.009
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.49	22.50	1.262	0.1	0.160	0.202
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.49	22.50	1.262	-0.14	0.086	0.109
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.47	22.50	1.268	-0.17	0.316	0.401
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.47	22.50	1.268	-0.15	0.200	0.254
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.47	22.50	1.268	0.07	0.008	0.010
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.47	22.50	1.268	-0.16	0.163	0.207
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	Reduced	507000	2535	21.47	22.50	1.268	0.19	0.101	0.128
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.97	20.50	1.130	0.11	0.252	0.285
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.97	20.50	1.130	0.11	0.395	0.446
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.97	20.50	1.130	0.18	0.139	0.157
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.97	20.50	1.130	-0.09	0.052	0.059
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.97	20.50	1.130	-0.13	0.426	0.481
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.95	20.50	1.135	0.02	0.258	0.293
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.95	20.50	1.135	0.19	0.402	0.456
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.95	20.50	1.135	-0.04	0.144	0.163
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.95	20.50	1.135	0.17	0.055	0.062
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	Reduced	507000	2535	19.95	20.50	1.135	-0.11	0.432	0.490
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 3	DSI 4	Reduced	507000	2535	16.15	17.50	1.365	-0.15	0.121	0.165
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 3	DSI 4	Reduced	507000	2535	16.15	17.50	1.365	0.06	0.184	0.251
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	16.15	17.50	1.365	-0.09	0.314	0.428
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	16.15	17.50	1.365	0.19	0.008	0.011
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	16.15	17.50	1.365	-0.1	0.026	0.035
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 3	DSI 4	Reduced	507000	2535	16.13	17.50	1.371	-0.13	0.131	0.180
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 3	DSI 4	Reduced	507000	2535	16.13	17.50	1.371	-0.12	0.212	0.291
41	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	16.13	17.50	1.371	-0.18	0.388	**0.532**
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	16.13	17.50	1.371	-0.15	0.007	0.010
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 3	DSI 4	Reduced	507000	2535	16.13	17.50	1.371	0.03	0.038	0.052
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 5	DSI 4	Reduced	507000	2535	16.95	17.50	1.135	-0.03	0.183	0.208
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 5	DSI 4	Reduced	507000	2535	16.95	17.50	1.135	0.16	0.234	0.266
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	16.95	17.50	1.135	-0.03	0.127	0.144

	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	16.95	17.50	1.135	-0.15	0.012	0.014
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	16.95	17.50	1.135	-0.16	0.317	0.360
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 5	DSI 4	Reduced	507000	2535	16.92	17.50	1.143	-0.13	0.182	0.208
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 5	DSI 4	Reduced	507000	2535	16.92	17.50	1.143	0.06	0.240	0.274
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	16.92	17.50	1.143	0.06	0.129	0.147
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	16.92	17.50	1.143	-0.17	0.013	0.015
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 5	DSI 4	Reduced	507000	2535	16.92	17.50	1.143	0.1	0.277	0.317
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.48	14.00	1.127	0.14	0.102	0.115
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.48	14.00	1.127	0.03	0.168	0.189
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.48	14.00	1.127	0.18	0.029	0.033
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.48	14.00	1.127	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.48	14.00	1.127	0.13	0.210	0.237
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.46	14.00	1.132	-0.06	0.109	0.123
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.46	14.00	1.132	0.1	0.197	0.223
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.46	14.00	1.132	-0.07	0.069	0.078
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.46	14.00	1.132	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	633334	3500.01	13.46	14.00	1.132	0.08	0.254	0.288
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.18	14.00	1.208	0.15	0.072	0.087
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.18	14.00	1.208	-0.03	0.157	0.190
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.18	14.00	1.208	0.04	0.049	0.059
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.18	14.00	1.208	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.18	14.00	1.208	-0.17	0.212	0.256
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.14	14.00	1.219	-0.01	0.084	0.102
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.14	14.00	1.219	0.18	0.166	0.202
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.14	14.00	1.219	-0.08	0.057	0.069
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.14	14.00	1.219	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	Reduced	650000	3750	13.14	14.00	1.219	-0.05	0.215	0.262
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.06	15.00	1.242	-0.08	0.062	0.077
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.06	15.00	1.242	0.11	0.077	0.096
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.06	15.00	1.242	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.06	15.00	1.242	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.06	15.00	1.242	-0.09	0.178	0.221
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.05	15.00	1.245	-0.01	0.085	0.106
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.05	15.00	1.245	0.07	0.100	0.124
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.05	15.00	1.245	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.05	15.00	1.245	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	633334	3500.01	14.05	15.00	1.245	0.14	0.213	0.265
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.95	15.00	1.274	-0.16	0.101	0.129
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.95	15.00	1.274	0.02	0.114	0.145
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.95	15.00	1.274	-0.03	0.057	0.073
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.95	15.00	1.274	-0.09	0.000	0.000
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.95	15.00	1.274	0.01	0.269	0.343
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.94	15.00	1.276	0.11	0.107	0.137
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.94	15.00	1.276	0.08	0.123	0.157
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.94	15.00	1.276	0.15	0.050	0.064
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.94	15.00	1.276	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	Reduced	650000	3750	13.94	15.00	1.276	-0.01	0.197	0.251
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.17	14.00	1.211	0.04	0.144	0.174
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.17	14.00	1.211	0.19	0.181	0.219
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.17	14.00	1.211	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.17	14.00	1.211	0.05	0.285	0.345
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.17	14.00	1.211	-0.11	0.084	0.102
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.12	14.00	1.225	0.07	0.146	0.179
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.12	14.00	1.225	0.18	0.192	0.235
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.12	14.00	1.225	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.12	14.00	1.225	0.01	0.294	0.360

	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	633334	3500.01	13.12	14.00	1.225	0.03	0.095	0.116
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.97	14.00	1.268	0.18	0.098	0.124
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.97	14.00	1.268	0.12	0.115	0.146
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.97	14.00	1.268	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.97	14.00	1.268	-0.04	0.238	0.302
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.97	14.00	1.268	0.15	0.081	0.103
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.95	14.00	1.274	-0.07	0.103	0.131
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.95	14.00	1.274	-0.09	0.132	0.168
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.95	14.00	1.274	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.95	14.00	1.274	-0.19	0.240	0.306
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	Reduced	650000	3750	12.95	14.00	1.274	-0.05	0.078	0.099
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	0.09	0.166	0.216
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	-0.06	0.102	0.133
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.36	17.50	1.300	0.18	0.046	0.060
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	-0.06	0.000	0.000
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	-0.14	0.272	0.363
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	-0.15	0.119	0.159
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	0.03	0.000	0.000
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	633334	3500.01	16.25	17.50	1.334	0.16	0.048	0.064
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.07	0.031	0.042
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.14	0.216	0.289
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.07	0.134	0.180
	FR1 n78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-	n/a	n/a
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.23	17.50	1.340	-0.1	0.076	0.102
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	-0.04	0.051	0.069
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	-0.06	0.221	0.298
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	0.18	0.142	0.192
	FR1 n78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	-	n/a	n/a
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 8	DSI 4	Reduced	650000	3750	16.20	17.50	1.349	0.1	0.093	0.125

<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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 16	Reduced	6	2437	13.30	14.50	1.318	99.6	1.004	-	n/a	n/a
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 16	Reduced	6	2437	13.30	14.50	1.318	99.6	1.004	-0.01	0.055	0.073
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 16	Reduced	6	2437	13.30	14.50	1.318	99.6	1.004	-	n/a	n/a
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 16	Reduced	6	2437	13.30	14.50	1.318	99.6	1.004	-0.02	0.199	0.263
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 18	Reduced	6	2437	12.90	14.50	1.445	99.6	1.004	-0.04	0.054	0.078
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 18	Reduced	6	2437	12.90	14.50	1.445	99.6	1.004	-0.04	0.065	0.094
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 18	Reduced	6	2437	12.90	14.50	1.445	99.6	1.004	0.05	0.162	0.235
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 18	Reduced	6	2437	12.90	14.50	1.445	99.6	1.004	-	n/a	n/a
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 16+18	Reduced	6	2437	16.01	17.50	1.409	99.6	1.004	0.14	0.063	0.089
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 16+18	Reduced	6	2437	16.01	17.50	1.409	99.6	1.004	-0.04	0.119	0.168
46	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 16+18	Reduced	6	2437	16.01	17.50	1.409	99.6	1.004	0.17	0.196	**0.277**
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 16+18	Reduced	6	2437	16.01	17.50	1.409	99.6	1.004	-0.08	0.057	0.081

<WLAN5G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10mm	Ant 17	Reduced	38	5190	11.20	12.50	1.349	93.1	1.074	0.12	0.056	0.081
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant 17	Reduced	38	5190	11.20	12.50	1.349	93.1	1.074	0.04	0.018	0.027
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 17	Reduced	38	5190	11.20	12.50	1.349	93.1	1.074	-0.19	0.000	0.000
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 17	Reduced	38	5190	11.20	12.50	1.349	93.1	1.074	-0.18	0.073	0.106
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10mm	Ant 18	Reduced	38	5190	11.11	12.00	1.227	93.1	1.074	-	n/a	n/a
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant 18	Reduced	38	5190	11.11	12.00	1.227	93.1	1.074	-	n/a	n/a
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 18	Reduced	38	5190	11.11	12.00	1.227	93.1	1.074	0.07	0.133	0.175
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 18	Reduced	38	5190	11.11	12.00	1.227	93.1	1.074	-	n/a	n/a
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10mm	Ant 17+18	Reduced	38	5190	14.21	15.50	1.346	93.1	1.074	-0.08	0.078	0.113
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant 17+18	Reduced	38	5190	14.21	15.50	1.346	93.1	1.074	-	n/a	n/a
47	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 17+18	Reduced	38	5190	14.21	15.50	1.346	93.1	1.074	-0.14	0.192	**0.278**
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 17+18	Reduced	38	5190	14.21	15.50	1.346	93.1	1.074	-0.08	0.078	0.113
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 17	Reduced	155	5775	10.30	11.50	1.318	87	1.149	-	n/a	n/a
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 17	Reduced	155	5775	10.30	11.50	1.318	87	1.149	0.13	0.066	0.100
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 17	Reduced	155	5775	10.30	11.50	1.318	87	1.149	-	n/a	n/a
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 17	Reduced	155	5775	10.30	11.50	1.318	87	1.149	0.08	0.137	0.208
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 18	Reduced	155	5775	9.80	11.00	1.318	87	1.149	-	n/a	n/a
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 18	Reduced	155	5775	9.80	11.00	1.318	87	1.149	-	n/a	n/a
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 18	Reduced	155	5775	9.80	11.00	1.318	87	1.149	0.15	0.149	0.226
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 18	Reduced	155	5775	9.80	11.00	1.318	87	1.149	-	n/a	n/a
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 17+18	Reduced	155	5775	13.28	14.50	1.324	87	1.149	-	n/a	n/a
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 17+18	Reduced	155	5775	13.28	14.50	1.324	87	1.149	-	n/a	n/a
48	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 17+18	Reduced	155	5775	13.28	14.50	1.324	87	1.149	0.16	0.157	**0.239**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 17+18	Reduced	155	5775	13.28	14.50	1.324	87	1.149	0.17	0.114	0.173

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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	DH5 1Mbps	Front	10mm	Ant 16	Full	39	2441	17.36	18.00	1.159	76.72	1.303	0.04	0.075	0.113
	Bluetooth	DH5 1Mbps	Back	10mm	Ant 16	Full	39	2441	17.36	18.00	1.159	76.72	1.303	0.07	0.134	0.202
	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 16	Full	39	2441	17.36	18.00	1.159	76.72	1.303	-	n/a	n/a
49	Bluetooth	DH5 1Mbps	Top Side	10mm	Ant 16	Full	39	2441	17.36	18.00	1.159	76.72	1.303	0.17	0.161	**0.243**

15.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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	GPRS 4 TX slots	Front	15mm	Ant 0	DSI 1	Full	189	836.4	26.33	28.00	1.469	0.12	0.174	0.256
	GSM850	GPRS 4 TX slots	Back	15mm	Ant 0	DSI 1	Full	189	836.4	26.33	28.00	1.469	-0.05	0.300	0.441
	GSM850	GPRS 4 TX slots	Front	15mm	Ant 1	DSI 1/3	Full	189	836.4	25.76	27.50	1.493	-0.04	0.271	0.405
50	GSM850	GPRS 4 TX slots	Back	15mm	Ant 1	DSI 1/3	Full	189	836.4	25.76	27.50	1.493	0.06	0.351	**0.524**
	GSM1900	GPRS 4 TX slots	Front	15mm	Ant 2	DSI 1	Reduced	661	1880	22.47	23.50	1.268	0.11	0.109	0.138
	GSM1900	GPRS 4 TX slots	Back	15mm	Ant 2	DSI 1	Reduced	661	1880	22.47	23.50	1.268	-0.18	0.143	0.181
	GSM1900	GPRS 4 TX slots	Front	15mm	Ant 2	DSI 3	Full	661	1880	23.66	25.00	1.361	0.04	0.147	0.200
51	GSM1900	GPRS 4 TX slots	Back	15mm	Ant 2	DSI 3	Full	661	1880	23.66	25.00	1.361	0.06	0.205	**0.279**
	GSM1900	GPRS 4 TX slots	Front	15mm	Ant 5	DSI 3	Full	661	1880	23.27	25.00	1.489	0.06	0.094	0.140
	GSM1900	GPRS 4 TX slots	Back	15mm	Ant 5	DSI 3	Full	661	1880	23.27	25.00	1.489	0.15	0.167	0.249

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 V	RMC 12.2Kbps	Front	15mm	Ant 0	DSI 1	Reduced	4182	836.4	22.83	24.00	1.309	-0.18	0.163	0.213
	WCDMA V	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 1	Reduced	4182	836.4	22.83	24.00	1.309	-0.04	0.189	0.247
	WCDMA V	RMC 12.2Kbps	Front	15mm	Ant 0	DSI 3	Full	4182	836.4	23.78	25.00	1.324	-0.02	0.214	0.283
	WCDMA V	RMC 12.2Kbps	Back	15mm	Ant 0	DSI 3	Full	4182	836.4	23.78	25.00	1.324	0.04	0.227	0.301
	WCDMA V	RMC 12.2Kbps	Front	15mm	Ant 1	DSI 1/3	Reduced	4182	836.4	20.47	22.00	1.422	-0.01	0.116	0.165
52	WCDMA V	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 1/3	Reduced	4182	836.4	20.47	22.00	1.422	0.04	0.236	**0.336**
	WCDMA IV	RMC 12.2Kbps	Front	15mm	Ant 2	DSI 1	Reduced	1413	1732.6	21.12	22.00	1.225	-0.15	0.188	0.230
	WCDMA IV	RMC 12.2Kbps	Back	15mm	Ant 2	DSI 1	Reduced	1413	1732.6	21.12	22.00	1.225	-0.04	0.243	0.298
	WCDMA IV	RMC 12.2Kbps	Front	15mm	Ant 2	DSI 3	Full	1413	1732.6	24.11	25.00	1.227	-0.16	0.390	0.479
	WCDMA IV	RMC 12.2Kbps	Back	15mm	Ant 2	DSI 3	Full	1413	1732.6	24.11	25.00	1.227	-0.1	0.621	0.762
	WCDMA IV	RMC 12.2Kbps	Front	15mm	Ant 5	DSI 3	Full	1413	1732.6	23.56	25.00	1.393	-0.14	0.302	0.421
53	WCDMA IV	RMC 12.2Kbps	Back	15mm	Ant 5	DSI 3	Full	1413	1732.6	23.56	25.00	1.393	0.05	0.599	**0.835**
	WCDMA IV	RMC 12.2Kbps	Back	15mm	Ant 5	DSI 3	Full	1312	1712.4	23.46	25.00	1.426	-0.11	0.366	0.522
	WCDMA IV	RMC 12.2Kbps	Back	15mm	Ant 5	DSI 3	Full	1513	1752.6	23.48	25.00	1.419	0.13	0.390	0.553
	WCDMA II	RMC 12.2Kbps	Front	15mm	Ant 2	DSI 1	Reduced	9400	1880	19.94	21.00	1.276	0.19	0.155	0.198
	WCDMA II	RMC 12.2Kbps	Back	15mm	Ant 2	DSI 1	Reduced	9400	1880	19.94	21.00	1.276	-0.14	0.243	0.310
	WCDMA II	RMC 12.2Kbps	Front	15mm	Ant 2	DSI 3	Full	9400	1880	24.11	25.00	1.227	0.15	0.414	0.508
54	WCDMA II	RMC 12.2Kbps	Back	15mm	Ant 2	DSI 3	Full	9400	1880	24.11	25.00	1.227	-0.04	0.724	**0.889**
	WCDMA II	RMC 12.2Kbps	Back	15mm	Ant 2	DSI 3	Full	9262	1852.4	24.07	25.00	1.239	-0.16	0.478	0.592
	WCDMA II	RMC 12.2Kbps	Back	15mm	Ant 2	DSI 3	Full	9538	1907.6	24.08	25.00	1.236	-0.03	0.656	0.811
	WCDMA II	RMC 12.2Kbps	Front	15mm	Ant 5	DSI 3	Full	9400	1880	23.42	25.00	1.439	-0.17	0.211	0.304
	WCDMA II	RMC 12.2Kbps	Back	15mm	Ant 5	DSI 3	Full	9400	1880	23.42	25.00	1.439	-0.02	0.357	0.514

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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	10M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Full	23095	707.5	25.15	25.70	1.135	0.11	0.163	0.185
	LTE Band 12	10M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Full	23095	707.5	25.15	25.70	1.135	-0.11	0.211	0.239
	LTE Band 12	10M	QPSK	25	0	Front	15mm	Ant 0	DSI 1	Full	23095	707.5	24.12	24.70	1.143	0.01	0.137	0.157
	LTE Band 12	10M	QPSK	25	0	Back	15mm	Ant 0	DSI 1	Full	23095	707.5	24.12	24.70	1.143	-0.18	0.171	0.195
	LTE Band 12	10M	QPSK	1	0	Front	15mm	Ant 1	DSI 1/3	Reduced	23095	707.5	24.69	25.20	1.125	-0.14	0.340	0.382
	LTE Band 12	10M	QPSK	1	0	Back	15mm	Ant 1	DSI 1/3	Reduced	23095	707.5	24.69	25.20	1.125	0.01	0.321	0.361
55	LTE Band 12	10M	QPSK	25	0	Front	15mm	Ant 1	DSI 1/3	Reduced	23095	707.5	24.17	24.70	1.130	0.1	0.347	**0.392**
	LTE Band 12	10M	QPSK	25	0	Back	15mm	Ant 1	DSI 1/3	Reduced	23095	707.5	24.17	24.70	1.130	0.11	0.331	0.374
	LTE Band 17	10M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Full	23790	710	25.15	25.70	1.135	0.15	0.168	0.191
	LTE Band 17	10M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Full	23790	710	25.15	25.70	1.135	-0.06	0.219	0.249
	LTE Band 17	10M	QPSK	25	0	Front	15mm	Ant 0	DSI 1	Full	23790	710	24.15	24.70	1.135	-0.1	0.145	0.165
	LTE Band 17	10M	QPSK	25	0	Back	15mm	Ant 0	DSI 1	Full	23790	710	24.15	24.70	1.135	0.06	0.191	0.217
	LTE Band 17	10M	QPSK	1	0	Front	15mm	Ant 1	DSI 1/3	Reduced	23790	710	24.69	25.20	1.125	-0.12	0.418	0.470
	LTE Band 17	10M	QPSK	1	0	Back	15mm	Ant 1	DSI 1/3	Reduced	23790	710	24.69	25.20	1.125	0.19	0.383	0.431
56	LTE Band 17	10M	QPSK	25	0	Front	15mm	Ant 1	DSI 1/3	Reduced	23790	710	24.08	24.70	1.153	0.18	0.419	**0.483**
	LTE Band 17	10M	QPSK	25	0	Back	15mm	Ant 1	DSI 1/3	Reduced	23790	710	24.08	24.70	1.153	-0.13	0.366	0.422
	LTE Band 26	15M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Full	26865	831.5	25.21	25.70	1.119	0.12	0.254	0.284
57	LTE Band 26	15M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Full	26865	831.5	25.21	25.70	1.119	-0.01	0.350	**0.392**
	LTE Band 26	15M	QPSK	36	0	Front	15mm	Ant 0	DSI 1	Full	26865	831.5	23.87	24.70	1.211	0.1	0.208	0.252
	LTE Band 26	15M	QPSK	36	0	Back	15mm	Ant 0	DSI 1	Full	26865	831.5	23.87	24.70	1.211	0.06	0.241	0.292
	LTE Band 26	15M	QPSK	1	0	Front	15mm	Ant 1	DSI 1/3	Full	26865	831.5	25.09	25.70	1.151	0.15	0.239	0.275
	LTE Band 26	15M	QPSK	1	0	Back	15mm	Ant 1	DSI 1/3	Full	26865	831.5	25.09	25.70	1.151	-0.01	0.224	0.258
	LTE Band 26	15M	QPSK	36	0	Front	15mm	Ant 1	DSI 1/3	Full	26865	831.5	24.03	24.70	1.167	-0.09	0.190	0.222
	LTE Band 26	15M	QPSK	36	0	Back	15mm	Ant 1	DSI 1/3	Full	26865	831.5	24.03	24.70	1.167	-0.05	0.187	0.218
	LTE Band 5	10M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Reduced	20525	836.5	24.02	24.20	1.042	-0.14	0.189	0.197
	LTE Band 5	10M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Reduced	20525	836.5	24.02	24.20	1.042	0.14	0.254	0.265
	LTE Band 5	10M	QPSK	1	0	Front	15mm	Ant 0	DSI 3	Full	20525	836.5	25.05	25.70	1.161	-0.19	0.255	0.296
58	LTE Band 5	10M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	Full	20525	836.5	25.05	25.70	1.161	0.09	0.379	**0.440**
	LTE Band 5	10M	QPSK	25	0	Front	15mm	Ant 0	DSI 1	Reduced	20525	836.5	23.69	24.20	1.125	0.04	0.188	0.211
	LTE Band 5	10M	QPSK	25	0	Back	15mm	Ant 0	DSI 1	Reduced	20525	836.5	23.69	24.20	1.125	-0.12	0.217	0.244
	LTE Band 5	10M	QPSK	1	0	Front	15mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.22	22.20	1.253	-0.09	0.290	0.363
	LTE Band 5	10M	QPSK	1	0	Back	15mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.22	22.20	1.253	0.16	0.117	0.147
	LTE Band 5	10M	QPSK	25	0	Front	15mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.10	22.20	1.288	-0.09	0.239	0.308
	LTE Band 5	10M	QPSK	25	0	Back	15mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.10	22.20	1.288	0.11	0.128	0.165
	LTE Band 4	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Reduced	20175	1732.5	21.78	22.50	1.180	0	0.162	0.191
	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Reduced	20175	1732.5	21.78	22.50	1.180	-0.16	0.183	0.216
	LTE Band 4	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 3	Full	20175	1732.5	23.68	24.50	1.208	0.03	0.295	0.356
	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	Full	20175	1732.5	23.68	24.50	1.208	-0.09	0.323	0.390
	LTE Band 4	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 1	Reduced	20175	1732.5	21.70	22.50	1.202	-0.11	0.162	0.195
	LTE Band 4	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 1	Reduced	20175	1732.5	21.70	22.50	1.202	0.16	0.238	0.286
	LTE Band 4	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 3	Full	20175	1732.5	22.53	23.50	1.250	0.05	0.270	0.338
	LTE Band 4	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 3	Full	20175	1732.5	22.53	23.50	1.250	0.07	0.303	0.379
	LTE Band 4	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.86	21.00	1.033	0.02	0.169	0.175
	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.86	21.00	1.033	-0.03	0.294	0.304
	LTE Band 4	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 3	Full	20175	1732.5	25.32	25.50	1.042	-0.14	0.491	0.512
59	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	Full	20175	1732.5	25.32	25.50	1.042	-0.19	0.761	**0.793**
	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	Full	20050	1720	25.23	25.50	1.064	0.06	0.666	0.709
	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	Full	20300	1745	25.12	25.50	1.091	0.06	0.711	0.776
	LTE Band 4	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.76	21.00	1.057	-0.14	0.170	0.180
	LTE Band 4	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.76	21.00	1.057	-0.1	0.304	0.321
	LTE Band 4	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 3	Full	20175	1732.5	24.27	24.50	1.054	0.17	0.391	0.412
	LTE Band 4	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 3	Full	20175	1732.5	24.27	24.50	1.054	0.03	0.517	0.545

	LTE Band 4	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	Full	20175	1732.5	25.55	25.70	1.035	-0.01	0.236	0.244
	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Full	20175	1732.5	25.55	25.70	1.035	-0.09	0.389	0.403
	LTE Band 4	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Full	20175	1732.5	24.52	24.70	1.042	-0.16	0.191	0.199
	LTE Band 4	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Full	20175	1732.5	24.52	24.70	1.042	0.08	0.235	0.245
	LTE Band 4	20M	QPSK	1	0	Front	15mm	Ant 5	DSI 3	Full	20175	1732.5	24.55	25.00	1.109	-0.01	0.352	0.390
	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 5	DSI 3	Full	20175	1732.5	24.55	25.00	1.109	-0.04	0.620	0.688
	LTE Band 4	20M	QPSK	50	0	Front	15mm	Ant 5	DSI 3	Full	20175	1732.5	23.38	24.00	1.153	0.17	0.273	0.315
	LTE Band 4	20M	QPSK	50	0	Back	15mm	Ant 5	DSI 3	Full	20175	1732.5	23.38	24.00	1.153	-0.18	0.286	0.330
	LTE Band 2	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 1	Reduced	18700	1860	21.95	22.50	1.135	-0.15	0.160	0.182
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 1	Reduced	18700	1860	21.95	22.50	1.135	0.06	0.238	0.270
	LTE Band 2	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 3	Full	18700	1860	23.81	24.50	1.172	-0.02	0.296	0.347
60	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	Full	18700	1860	23.81	24.50	1.172	0.1	0.357	**0.418**
	LTE Band 2	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	18700	1860	21.89	22.50	1.151	0.16	0.177	0.204
	LTE Band 2	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	18700	1860	21.89	22.50	1.151	-0.16	0.304	0.350
	LTE Band 2	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 3	Full	18700	1860	22.73	23.50	1.194	-0.09	0.243	0.290
	LTE Band 2	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 3	Full	18700	1860	22.73	23.50	1.194	0.01	0.327	0.390
	LTE Band 2	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	Full	18700	1860	23.96	25.00	1.271	0.07	0.144	0.183
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Full	18700	1860	23.96	25.00	1.271	-0.06	0.241	0.306
	LTE Band 2	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Full	18700	1860	22.93	24.00	1.279	-0.05	0.121	0.155
	LTE Band 2	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Full	18700	1860	22.93	24.00	1.279	0.11	0.147	0.188
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Reduced	21100	2535	20.68	21.50	1.208	0.04	0.110	0.133
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Reduced	21100	2535	20.68	21.50	1.208	-0.1	0.113	0.136
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 3	Full	21100	2535	22.08	23.00	1.236	-0.16	0.138	0.171
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	Full	21100	2535	22.08	23.00	1.236	0.09	0.142	0.176
	LTE Band 7C	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	Full	21100 +20902	2535 +2515.2	21.50	23.00	1.413	0.18	0.101	0.143
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 1	Reduced	21100	2535	20.56	21.50	1.242	0.02	0.105	0.130
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 1	Reduced	21100	2535	20.56	21.50	1.242	-0.07	0.106	0.132
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 3	Full	21100	2535	21.10	22.00	1.230	0.05	0.114	0.140
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 3	Full	21100	2535	21.10	22.00	1.230	-0.02	0.115	0.141
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.66	20.00	1.081	-0.19	0.093	0.101
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.66	20.00	1.081	0.07	0.136	0.147
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 3	Full	21100	2535	24.19	25.00	1.205		0.380	0.458
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	Full	21100	2535	24.19	25.00	1.205	-0.16	0.398	0.480
	LTE Band 7C	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	Full	21100 +20902	2535 +2515.2	23.84	25.00	1.306	0.03	0.383	0.500
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.60	20.00	1.096	0.01	0.096	0.105
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.60	20.00	1.096	0.03	0.178	0.195
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 3	Full	21100	2535	23.18	24.00	1.208	0.11	0.236	0.285
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 3	Full	21100	2535	23.18	24.00	1.208	-0.1	0.305	0.368
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	Full	21100	2535	24.62	25.70	1.282	-0.09	0.364	0.467
61	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Full	21100	2535	24.62	25.70	1.282	-0.09	0.692	**0.887**
	LTE Band 7C	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Full	21100 +20902	2535 +2515.2	24.33	25.70	1.371	0.05	0.552	0.757
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Full	20850	2510	24.40	25.70	1.349	-0.06	0.546	0.737
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Full	21350	2560	24.37	25.70	1.358	-0.11	0.445	0.604
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Full	21100	2535	23.66	24.70	1.271	-0.17	0.287	0.365
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Full	21100	2535	23.66	24.70	1.271	0.19	0.411	0.522
	LTE Band 7	20M	QPSK	100	0	Back	15mm	Ant 3	DSI 3	Full	21100	2535	23.58	24.70	1.294	0.16	0.405	0.524
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 5	DSI 3	Full	21100	2535	22.91	24.50	1.442	-0.08	0.316	0.456
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 5	DSI 3	Full	21100	2535	22.91	24.50	1.442	0.09	0.518	0.747
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 5	DSI 3	Full	21100 +20902	2535 +2515.2	22.74	24.50	1.500	0.1	0.452	0.678
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 5	DSI 3	Full	21100	2535	21.94	23.50	1.432	0.02	0.281	0.402
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 5	DSI 3	Full	21100	2535	21.94	23.50	1.432	0.01	0.357	0.511

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 38	20M	QPSK	1	99	Front	15mm	Ant 0	DSI 1	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	-0.1	0.111	0.138
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 0	DSI 1	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	0.07	0.135	0.167
	LTE Band 38	20M	QPSK	1	99	Front	15mm	Ant 0	DSI 3	Full	37850	2580	22.89	24.00	1.291	62.9	1.006	0.03	0.125	0.162
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 0	DSI 3	Full	37850	2580	22.89	24.00	1.291	62.9	1.006	-0.01	0.165	0.214
	LTE Band 38C	20M	QPSK	1	99	Back	15mm	Ant 0	DSI 3	Full	37850 +38048	2580 +2599.8	22.72	24.00	1.343	62.9	1.006	-0.08	0.110	0.149
	LTE Band 38	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 1	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	-0.1	0.122	0.159
	LTE Band 38	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 1	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	0.09	0.131	0.171
	LTE Band 38	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 3	Full	37850	2580	21.64	23.00	1.368	62.9	1.006	-0.01	0.113	0.155
	LTE Band 38	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 3	Full	37850	2580	21.64	23.00	1.368	62.9	1.006	-0.18	0.133	0.183
	LTE Band 38	20M	QPSK	1	99	Front	15mm	Ant 2	DSI 1	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	-0.12	0.097	0.110
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 2	DSI 1	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	0.1	0.177	0.201
	LTE Band 38	20M	QPSK	1	99	Front	15mm	Ant 2	DSI 3	Full	37850	2580	24.66	25.50	1.213	62.9	1.006	0.01	0.246	0.300
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 2	DSI 3	Full	37850	2580	24.66	25.50	1.213	62.9	1.006	-0.06	0.415	0.507
	LTE Band 38C	20M	QPSK	1	99	Back	15mm	Ant 2	DSI 3	Full	37850 +38048	2580 +2599.8	24.37	25.50	1.297	62.9	1.006	0.09	0.273	0.356
	LTE Band 38	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	0.14	0.099	0.114
	LTE Band 38	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	0.02	0.181	0.208
	LTE Band 38	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 3	Full	37850	2580	23.57	24.50	1.239	62.9	1.006	-0.14	0.190	0.237
	LTE Band 38	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 3	Full	37850	2580	23.57	24.50	1.239	62.9	1.006	0.07	0.240	0.299
	LTE Band 38	20M	QPSK	1	99	Front	15mm	Ant 3	DSI 3	Full	37850	2580	25.06	25.70	1.159	62.9	1.006	0.01	0.207	0.241
62	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 3	DSI 3	Full	37850	2580	25.06	25.70	1.159	62.9	1.006	-0.06	0.464	**0.541**
	LTE Band 38C	20M	QPSK	1	99	Back	15mm	Ant 3	DSI 3	Full	37850 +38048	2580 +2599.8	24.97	25.70	1.183	62.9	1.006	0.12	0.351	0.418
	LTE Band 38	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Full	37850	2580	23.99	24.70	1.178	62.9	1.006	0.06	0.167	0.198
	LTE Band 38	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Full	37850	2580	23.99	24.70	1.178	62.9	1.006	-0.1	0.246	0.291
	LTE Band 38	20M	QPSK	1	99	Front	15mm	Ant 5	DSI 3	Full	37850	2580	24.12	25.00	1.225	62.9	1.006	0.19	0.293	0.361
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 5	DSI 3	Full	37850	2580	24.12	25.00	1.225	62.9	1.006	0.18	0.409	0.504
	LTE Band 38C	20M	QPSK	1	99	Back	15mm	Ant 5	DSI 3	Full	37850 +38048	2580 +2599.8	23.30	25.00	1.479	62.9	1.006	0.17	0.330	0.491
	LTE Band 38	20M	QPSK	50	0	Front	15mm	Ant 5	DSI 3	Full	37850	2580	23.12	24.00	1.225	62.9	1.006	0.11	0.184	0.227
	LTE Band 38	20M	QPSK	50	0	Back	15mm	Ant 5	DSI 3	Full	37850	2580	23.12	24.00	1.225	62.9	1.006	-0.13	0.217	0.267
	LTE Band 41	20M	QPSK	1	99	Front	15mm	Ant 0	DSI 1	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-0.16	0.084	0.095
	LTE Band 41	20M	QPSK	1	99	Back	15mm	Ant 0	DSI 1	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-0.19	0.060	0.068
	LTE Band 41	20M	QPSK	1	99	Front	15mm	Ant 0	DSI 3	Full	40185	2549.5	23.48	24.00	1.127	62.9	1.006	-0.09	0.133	0.151
	LTE Band 41	20M	QPSK	1	99	Back	15mm	Ant 0	DSI 3	Full	40185	2549.5	23.48	24.00	1.127	62.9	1.006	0.11	0.093	0.105
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 1	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	0.11	0.099	0.113
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 1	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	0.09	0.056	0.064
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 3	Full	40185	2549.5	22.42	23.00	1.143	62.9	1.006	0.04	0.116	0.133
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 3	Full	40185	2549.5	22.42	23.00	1.143	62.9	1.006	0.03	0.066	0.076
	LTE Band 41	20M	QPSK	1	99	Front	15mm	Ant 2	DSI 1	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	0.13	0.096	0.097
	LTE Band 41	20M	QPSK	1	99	Back	15mm	Ant 2	DSI 1	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	-0.01	0.225	0.228
	LTE Band 41	20M	QPSK	1	99	Front	15mm	Ant 2	DSI 3	Full	40185	2549.5	25.13	25.50	1.089	62.9	1.006	0.13	0.272	0.298
	LTE Band 41	20M	QPSK	1	99	Back	15mm	Ant 2	DSI 3	Full	40185	2549.5	25.13	25.50	1.089	62.9	1.006	0.15	0.453	0.496
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	0	0.097	0.101
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	-0.07	0.253	0.263
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 3	Full	40185	2549.5	24.15	24.50	1.084	62.9	1.006	0.06	0.211	0.230
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 3	Full	40185	2549.5	24.15	24.50	1.084	62.9	1.006	0.11	0.374	0.408
	LTE Band 41	20M	QPSK	1	99	Front	15mm	Ant 3	DSI 3	Full	40185	2549.5	25.65	25.70	1.012	62.9	1.006	0.08	0.259	0.264
63	LTE Band 41	20M	QPSK	1	99	Back	15mm	Ant 3	DSI 3	Full	40185	2549.5	25.65	25.70	1.012	62.9	1.006	0.08	0.537	**0.546**
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Full	40185	2549.5	24.68	24.70	1.005	62.9	1.006	0.19	0.207	0.209
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Full	40185	2549.5	24.68	24.70	1.005	62.9	1.006	0.13	0.308	0.311
	LTE Band 41	20M	QPSK	1	99	Front	15mm	Ant 5	DSI 3	Full	40185	2549.5	24.58	25.00	1.102	62.9	1.006	-0.07	0.252	0.279
	LTE Band 41	20M	QPSK	1	99	Back	15mm	Ant 5	DSI 3	Full	40185	2549.5	24.58	25.00	1.102	62.9	1.006	0.09	0.405	0.449
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 5	DSI 3	Full	40185	2549.5	23.45	24.00	1.135	62.9	1.006	-0.03	0.192	0.219
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 5	DSI 3	Full	40185	2549.5	23.45	24.00	1.135	62.9	1.006	-0.04	0.237	0.271

<LTE UL CA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 4_Other PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Reduced	20175	1732.5	22.92	23.00	1.019	0.12	0.210	0.214
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Reduced	20175	1732.5	22.92	23.00	1.019	-0.09	0.220	0.224
	LTE Band 4_Other PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 3	Full	20175	1732.5	24.59	25.00	1.099	-0.19	0.318	0.349
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	Full	20175	1732.5	24.59	25.00	1.099	-0.19	0.342	0.376
	LTE Band 4_Other PA	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 1	Reduced	20175	1732.5	22.91	23.00	1.021	0.05	0.201	0.205
	LTE Band 4_Other PA	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 1	Reduced	20175	1732.5	22.91	23.00	1.021	0.19	0.218	0.223
	LTE Band 4_Other PA	20M	QPSK	1	0	Front	15mm	Ant 5	DSI 3	Full	20175	1732.5	22.39	22.50	1.026	-0.08	0.462	0.474
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	15mm	Ant 5	DSI 3	Full	20175	1732.5	22.39	22.50	1.026	-0.16	0.482	0.494
	LTE Band 4_Other PA	20M	QPSK	50	0	Front	15mm	Ant 5	DSI 3	Full	20175	1732.5	22.37	22.50	1.030	0.17	0.426	0.439
	LTE Band 4_Other PA	20M	QPSK	50	0	Back	15mm	Ant 5	DSI 3	Full	20175	1732.5	22.37	22.50	1.030	0.04	0.518	0.534
	LTE Band 4	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.86	21.00	1.033	0.02	0.169	0.175
	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.86	21.00	1.033	-0.03	0.214	0.221
	LTE Band 4	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.76	21.00	1.057	-0.14	0.170	0.180
	LTE Band 4	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.76	21.00	1.057	-0.1	0.304	0.321
	LTE Band 4	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	Full	20175	1732.5	25.55	25.70	1.035	-0.01	0.236	0.244
	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Full	20175	1732.5	25.55	25.70	1.035	-0.09	0.389	0.403
	LTE Band 4	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Full	20175	1732.5	24.52	24.70	1.042	-0.16	0.191	0.199
	LTE Band 4	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Full	20175	1732.5	24.52	24.70	1.042	0.08	0.235	0.245
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Reduced	21100	2535	21.29	22.00	1.178	-0.15	0.158	0.186
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Reduced	21100	2535	21.29	22.00	1.178	0.13	0.093	0.110
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 3	Full	21100	2535	23.36	24.00	1.159	-0.11	0.251	0.291
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	Full	21100	2535	23.36	24.00	1.159	0.17	0.147	0.170
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 1	Reduced	21100	2535	21.28	22.00	1.180	-0.1	0.159	0.188
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 1	Reduced	21100	2535	21.28	22.00	1.180	0.18	0.097	0.114
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.64	22.50	1.219	0.11	0.342	0.417
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.64	22.50	1.219	0.07	0.380	0.463
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.59	22.50	1.233	0.02	0.314	0.387
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.59	22.50	1.233	0.04	0.352	0.434
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.66	20.00	1.081	-0.19	0.093	0.101
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.66	20.00	1.081	0.07	0.136	0.147
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.60	20.00	1.096	0.01	0.096	0.105
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.60	20.00	1.096	0.03	0.178	0.195
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	Reduced	21100	2535	22.10	23.20	1.288	-0.03	0.270	0.348
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Reduced	21100	2535	22.10	23.20	1.288	0.11	0.419	0.540
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Reduced	21100	2535	22.05	23.20	1.303	-0.19	0.287	0.374
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Reduced	21100	2535	22.05	23.20	1.303	0.09	0.411	0.536

<5GNR SA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 n5	20M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.76	25.20	1.107	0.11	0.232	0.257
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.76	25.20	1.107	0.11	0.297	0.329
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.58	25.20	1.153	0.06	0.241	0.278
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.58	25.20	1.153	0.02	0.301	0.347
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	15mm	Ant 0	DSI 3	Full	167300	836.5	25.08	25.70	1.153	-0.12	0.311	0.359
64	FR1 n5	20M	BPSK	50	28	DFT-15	Back	15mm	Ant 0	DSI 3	Full	167300	836.5	25.08	25.70	1.153	-0.15	0.401	**0.463**
	FR1 n5	20M	BPSK	1	1	DFT-15	Front	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	22.12	22.70	1.143	-0.03	0.113	0.129
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	22.12	22.70	1.143	-0.06	0.105	0.120
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	21.95	22.70	1.189	-0.13	0.146	0.174
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	21.95	22.70	1.189	0.18	0.159	0.189
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.41	23.00	1.442	-0.09	0.168	0.242
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.41	23.00	1.442	0.19	0.078	0.112
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.38	23.00	1.452	-0.04	0.173	0.251
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.38	23.00	1.452	0.04	0.089	0.129
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 0	DSI 3	Full	507000	2535	22.38	24.00	1.452	-0.18	0.225	0.327
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 0	DSI 3	Full	507000	2535	22.38	24.00	1.452	-0.13	0.108	0.157
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.89	20.50	1.151	-0.13	0.115	0.132
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.89	20.50	1.151	0.05	0.147	0.169
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 3	Full	507000	2535	24.59	25.00	1.099	-0.09	0.145	0.159
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 3	Full	507000	2535	24.59	25.00	1.099	-0.04	0.493	0.542
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.88	20.50	1.153	-0.13	0.111	0.128
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.88	20.50	1.153	0.15	0.143	0.165
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 3	Reduced	507000	2535	24.26	25.20	1.242	-0.07	0.414	0.514
65	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 3	Reduced	507000	2535	24.26	25.20	1.242	-0.14	0.653	**0.811**
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 3	Reduced	505000	2525	24.21	25.20	1.256	0.07	0.621	0.780
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 3	Reduced	509000	2545	24.24	25.20	1.247	-0.12	0.600	0.748
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 3	DSI 3	Reduced	507000	2535	24.25	25.20	1.245	0.15	0.373	0.464
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 3	DSI 3	Reduced	507000	2535	24.25	25.20	1.245	0.11	0.523	0.651
	FR1 n7	50M	BPSK	270	0	DFT-15	Back	15mm	Ant 3	DSI 3	Reduced	507000	2535	24.19	24.70	1.125	0.03	0.515	0.579
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 5	DSI 3	Full	507000	2535	23.05	24.50	1.396	-0.14	0.343	0.479
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 5	DSI 3	Full	507000	2535	23.05	24.50	1.396	-0.05	0.442	0.617
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 5	DSI 3	Full	507000	2535	22.81	24.50	1.476	-0.03	0.370	0.546
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 5	DSI 3	Full	507000	2535	22.81	24.50	1.476	-0.08	0.496	0.732
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 0	DSI 1	Reduced	519000	2595	20.76	22.00	1.330	-0.14	0.093	0.124
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 0	DSI 1	Reduced	519000	2595	20.76	22.00	1.330	-0.11	0.140	0.186
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 0	DSI 3	Full	519000	2595	22.89	24.00	1.291	0.02	0.102	0.132
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 0	DSI 3	Full	519000	2595	22.89	24.00	1.291	0.09	0.221	0.285
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 0	DSI 1	Reduced	519000	2595	20.70	22.00	1.349	-0.18	0.081	0.109
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 0	DSI 1	Reduced	519000	2595	20.70	22.00	1.349	0.06	0.137	0.185
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 1	Reduced	519000	2595	19.92	20.50	1.143	-0.18	0.143	0.163
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 1	Reduced	519000	2595	19.92	20.50	1.143	0.1	0.186	0.213
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 3	Full	519000	2595	24.98	25.50	1.127	0.06	0.421	0.475
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 3	Full	519000	2595	24.98	25.50	1.127	-0.02	0.482	0.543
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 2	DSI 1	Reduced	519000	2595	19.79	20.50	1.178	-0.07	0.136	0.160
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 2	DSI 1	Reduced	519000	2595	19.79	20.50	1.178	0.01	0.178	0.210
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 3	Full	519000	2595	25.20	25.70	1.122	0.04	0.416	0.467
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 3	Full	519000	2595	25.20	25.70	1.122	-0.08	0.568	0.637
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 3	DSI 3	Full	519000	2595	24.88	25.70	1.208	0.12	0.398	0.481
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 3	DSI 3	Full	519000	2595	24.88	25.70	1.208	-0.03	0.633	0.765
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	Full	519000	2595	23.56	25.00	1.393	0.15	0.445	0.620
66	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	Full	519000	2595	23.56	25.00	1.393	-0.13	0.581	**0.809**
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	Full	518004	2590.02	23.18	25.00	1.521	0.14	0.485	0.737

	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	Full	519996	2599.98	23.21	25.00	1.510	-0.17	0.531	0.802
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 5	DSI 3	Full	519000	2595	23.42	25.00	1.439	0.08	0.423	0.609
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 5	DSI 3	Full	519000	2595	23.42	25.00	1.439	-0.17	0.533	0.767
	FR1 n38	40M	BPSK	100	0	DFT-30	Back	15mm	Ant 5	DSI 3	Full	519000	2595	22.92	24.50	1.439	-0.01	0.541	0.778
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 0	DSI 1	Reduced	518598	2592.99	20.69	21.50	1.205	0.02	0.056	0.067
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 0	DSI 1	Reduced	518598	2592.99	20.69	21.50	1.205	0.11	0.108	0.130
	FR1 n41	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 0	DSI 1	Reduced	518598	2592.99	20.68	21.50	1.208	0.12	0.125	0.151
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 0	DSI 1	Reduced	518598	2592.99	20.68	21.50	1.208	0.16	0.126	0.152
	FR1 n41	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 0	DSI 3	Full	518598	2592.99	23.48	24.50	1.265	0.18	0.281	0.355
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 0	DSI 3	Full	518598	2592.99	23.48	24.50	1.265	0.03	0.319	0.403
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 1	Reduced	518598	2592.99	19.53	20.00	1.114	0.14	0.124	0.138
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 1	Reduced	518598	2592.99	19.53	20.00	1.114	0.17	0.160	0.178
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 3	Full	518598	2592.99	25.10	25.50	1.096	0.09	0.421	0.462
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 3	Full	518598	2592.99	25.10	25.50	1.096	-0.07	0.572	0.627
	FR1 n41	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 2	DSI 1	Reduced	518598	2592.99	19.52	20.00	1.117	0.15	0.123	0.137
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 1	Reduced	518598	2592.99	19.52	20.00	1.117	0.16	0.155	0.173
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 3	Reduced	518598	2592.99	24.18	24.70	1.127	0.16	0.439	0.495
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 3	Reduced	518598	2592.99	24.18	24.70	1.127	0.17	0.589	0.664
	FR1 n41	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 3	Reduced	518598	2592.99	24.15	24.70	1.135	0.08	0.514	0.583
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 3	Reduced	518598	2592.99	24.15	24.70	1.135	-0.03	0.730	0.829
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 3	Reduced	509202	2546.01	24.10	24.70	1.148	-0.15	0.705	0.809
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 3	Reduced	528000	2640	24.12	24.70	1.143	-0.04	0.701	0.801
	FR1 n41	100M	BPSK	270	0	DFT-30	Back	15mm	Ant 3	DSI 3	Reduced	518598	2592.99	24.11	24.20	1.021	-0.18	0.831	0.848
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	Full	518598	2592.99	24.54	25.50	1.247	0.01	0.508	0.634
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	Full	518598	2592.99	24.54	25.50	1.247	-0.1	0.592	0.738
	FR1 n41	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	Full	518598	2592.99	24.43	25.50	1.279	0.04	0.574	0.734
67	FR1 n41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	Full	518598	2592.99	24.43	25.50	1.279	-0.07	0.786	**1.006**
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	Full	509202	2546.01	24.37	25.50	1.297	0.04	0.697	0.904
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	Full	528000	2640	24.38	25.50	1.294	0.05	0.752	0.973
	FR1 n41	100M	BPSK	270	0	DFT-30	Back	15mm	Ant 5	DSI 3	Full	518598	2592.99	23.83	25.00	1.309	0.16	0.661	0.865
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.26	23.70	1.107	-0.1	0.366	0.405
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.26	23.70	1.107	0.19	0.721	0.798
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.21	23.70	1.119	0.19	0.395	0.442
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.21	23.70	1.119	0.17	0.845	0.946
	FR1 n77	100M	BPSK	270	0	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	22.64	23.70	1.276	-0.11	0.732	0.934
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	656000	3840	23.28	23.70	1.102	-0.16	0.304	0.335
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	656000	3840	23.28	23.70	1.102	-0.15	0.665	0.733
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	656000	3840	23.15	23.70	1.135	0.16	0.313	0.355
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	656000	3840	23.15	23.70	1.135	-0.07	0.725	0.823
	FR1 n77	100M	BPSK	270	0	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	656000	3840	22.71	23.70	1.256	-0.06	0.700	0.879
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	Full	633334	3500.01	22.98	24.50	1.419	-0.12	0.200	0.284
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	Full	633334	3500.01	22.98	24.50	1.419	0.11	0.250	0.355
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	Full	633334	3500.01	22.71	24.50	1.510	-0.02	0.212	0.320
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	Full	633334	3500.01	22.71	24.50	1.510	0.12	0.229	0.346
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	Full	656000	3840	23.05	24.50	1.396	0.16	0.285	0.398
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	Full	656000	3840	23.05	24.50	1.396	-0.1	0.316	0.441
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	Full	656000	3840	22.79	24.50	1.483	0.05	0.265	0.393
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	Full	656000	3840	22.79	24.50	1.483	0.16	0.338	0.501
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 3	Reduced	633334	3500.01	16.39	17.50	1.291	-0.05	0.070	0.090
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 3	Reduced	633334	3500.01	16.39	17.50	1.291	-0.1	0.088	0.114
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 3	Reduced	633334	3500.01	16.38	17.50	1.294	-0.1	0.082	0.106
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 3	Reduced	633334	3500.01	16.38	17.50	1.294	-0.19	0.120	0.155
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 3	Reduced	656000	3840	16.57	17.50	1.239	0.1	0.061	0.076
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 3	Reduced	656000	3840	16.57	17.50	1.239	0.15	0.065	0.081
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 3	Reduced	656000	3840	16.28	17.50	1.324	0.12	0.055	0.073
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 3	Reduced	656000	3840	16.28	17.50	1.324	0.18	0.068	0.090

	FR1 n77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	23.33	24.20	1.222	0.17	0.087	0.106
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	23.33	24.20	1.222	-0.19	0.674	0.823
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	23.04	24.20	1.306	0.02	0.089	0.116
68	FR1 n77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	23.04	24.20	1.306	-0.13	0.769	**1.004**
	FR1 n77	100M	BPSK	270	0	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	22.65	24.20	1.429	0.01	0.701	1.002
	FR1 n77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	656000	3840	23.29	24.20	1.233	-0.1	0.056	0.069
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	656000	3840	23.29	24.20	1.233	-0.14	0.342	0.422
	FR1 n77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	656000	3840	22.99	24.20	1.321	-0.07	0.055	0.073
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	656000	3840	22.99	24.20	1.321	0.1	0.328	0.433
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.82	24.50	1.169	-0.1	0.404	0.472
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.82	24.50	1.169	0.06	0.732	0.856
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.70	24.50	1.202	-0.02	0.418	0.503
69	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.70	24.50	1.202	0.11	0.855	**1.028**
	FR1 n78	100M	BPSK	270	0	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.62	24.50	1.225	0.05	0.830	1.016
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	650000	3750	23.78	24.50	1.180	0.11	0.334	0.394
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	650000	3750	23.78	24.50	1.180	0.17	0.716	0.845
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	650000	3750	23.73	24.50	1.194	-0.03	0.345	0.412
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	650000	3750	23.73	24.50	1.194	0.13	0.762	0.910
	FR1 n78	100M	BPSK	270	0	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	650000	3750	23.22	24.50	1.343	0.01	0.750	1.007
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	Full	633334	3500.01	23.95	25.00	1.274	-0.18	0.202	0.257
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	Full	633334	3500.01	23.95	25.00	1.274	0.13	0.234	0.298
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	Full	633334	3500.01	23.68	25.00	1.355	0.05	0.235	0.318
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	Full	633334	3500.01	23.68	25.00	1.355	0.17	0.265	0.359
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	Full	650000	3750	23.89	25.00	1.291	-0.11	0.278	0.359
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	Full	650000	3750	23.89	25.00	1.291	-0.09	0.301	0.389
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	Full	650000	3750	23.66	25.00	1.361	-0.14	0.301	0.410
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	Full	650000	3750	23.66	25.00	1.361	0.09	0.537	0.731
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.58	17.50	1.236	-0.06	0.114	0.141
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.58	17.50	1.236	-0.16	0.132	0.163
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.55	17.50	1.245	-0.05	0.118	0.147
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.55	17.50	1.245	-0.1	0.140	0.174
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.48	17.50	1.265	0.19	0.104	0.132
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.48	17.50	1.265	-0.19	0.117	0.148
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.45	17.50	1.274	-0.09	0.100	0.127
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.45	17.50	1.274	-0.15	0.117	0.149
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	23.79	25.00	1.321	-0.11	0.095	0.126
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	23.79	25.00	1.321	-0.17	0.759	1.003
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	23.54	25.00	1.400	-0.18	0.098	0.137
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	23.54	25.00	1.400	0.13	0.719	1.006
	FR1 n78	100M	BPSK	270	0	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	23.16	25.00	1.528	-0.15	0.595	0.909
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	650000	3750	23.69	25.00	1.352	-0.1	0.072	0.097
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	650000	3750	23.69	25.00	1.352	0.05	0.566	0.765
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	650000	3750	23.53	25.00	1.403	-0.13	0.060	0.084
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	650000	3750	23.53	25.00	1.403	-0.17	0.439	0.616

<5G NR UL CA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 n5	20M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.76	25.20	1.107	0.11	0.232	0.257
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.76	25.20	1.107	0.11	0.297	0.329
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.58	25.20	1.153	-0.12	0.241	0.278
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.58	25.20	1.153	-0.15	0.301	0.347
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	15mm	Ant 0	DSI 3	Full	167300	836.5	25.08	25.70	1.153	-0.12	0.311	0.359
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	15mm	Ant 0	DSI 3	Full	167300	836.5	25.08	25.70	1.153	-0.15	0.401	0.463
	FR1 n5	20M	BPSK	1	1	DFT-15	Front	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	21.12	21.70	1.143	-0.03	0.113	0.129
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	21.12	21.70	1.143	-0.06	0.105	0.120
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	20.95	21.70	1.189	-0.13	0.146	0.174
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	20.95	21.70	1.189	0.18	0.159	0.189
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.41	23.00	1.442	-0.09	0.168	0.242
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.41	23.00	1.442	0.19	0.078	0.112
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.38	23.00	1.452	-0.04	0.173	0.251
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.38	23.00	1.452	0.04	0.089	0.129
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 0	DSI 3	Full	507000	2535	22.38	24.00	1.452	-0.18	0.225	0.327
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 0	DSI 3	Full	507000	2535	22.38	24.00	1.452	-0.13	0.108	0.157
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.89	20.50	1.151	-0.13	0.115	0.132
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.89	20.50	1.151	0.05	0.147	0.169
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 3	Full	507000	2535	24.59	25.00	1.099	-0.09	0.145	0.159
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 3	Full	507000	2535	24.59	25.00	1.099	-0.04	0.493	0.542
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.88	20.50	1.153	-0.13	0.111	0.128
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.88	20.50	1.153	0.15	0.143	0.165
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 3	Reduced	507000	2535	21.71	22.70	1.256	0.14	0.236	0.296
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 3	Reduced	507000	2535	21.71	22.70	1.256	0.02	0.390	0.490
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 3	DSI 3	Reduced	507000	2535	21.67	22.70	1.268	-0.1	0.229	0.290
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 3	DSI 3	Reduced	507000	2535	21.67	22.70	1.268	0.19	0.352	0.446
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 5	DSI 3	Reduced	507000	2535	19.97	21.50	1.422	0.12	0.210	0.299
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 5	DSI 3	Reduced	507000	2535	19.97	21.50	1.422	0.18	0.384	0.546
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 5	DSI 3	Reduced	507000	2535	19.73	21.50	1.503	0.19	0.207	0.311
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 5	DSI 3	Reduced	507000	2535	19.73	21.50	1.503	0.02	0.280	0.421
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 0	DSI 1	Reduced	519000	2595	20.76	22.00	1.330	-0.14	0.093	0.124
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 0	DSI 1	Reduced	519000	2595	20.76	22.00	1.330	-0.11	0.140	0.186
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 0	DSI 3	Full	519000	2595	22.89	24.00	1.291	0.02	0.102	0.132
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 0	DSI 3	Full	519000	2595	22.89	24.00	1.291	0.09	0.221	0.285
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 0	DSI 1	Reduced	519000	2595	20.70	22.00	1.349	-0.18	0.081	0.109
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 0	DSI 1	Reduced	519000	2595	20.70	22.00	1.349	0.06	0.137	0.185
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 1	Reduced	519000	2595	19.92	20.50	1.143	-0.18	0.143	0.163
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 1	Reduced	519000	2595	19.92	20.50	1.143	0.1	0.186	0.213
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 3	Full	519000	2595	24.98	25.50	1.127	0.06	0.421	0.475
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 3	Full	519000	2595	24.98	25.50	1.127	-0.02	0.482	0.543
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 2	DSI 1	Reduced	519000	2595	19.79	20.50	1.178	-0.07	0.136	0.160
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 2	DSI 1	Reduced	519000	2595	19.79	20.50	1.178	0.01	0.178	0.210
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 3	Reduced	519000	2595	22.90	23.20	1.072	-0.17	0.237	0.254
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 3	Reduced	519000	2595	22.90	23.20	1.072	0.12	0.311	0.333
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 3	DSI 3	Reduced	519000	2595	22.78	23.20	1.102	0.16	0.305	0.336
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 3	DSI 3	Reduced	519000	2595	22.78	23.20	1.102	-0.07	0.479	0.528
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	Reduced	519000	2595	20.17	21.50	1.358	0.07	0.218	0.296
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	Reduced	519000	2595	20.17	21.50	1.358	-0.15	0.359	0.488
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 5	DSI 3	Reduced	519000	2595	20.09	21.50	1.384	0.07	0.214	0.296
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 5	DSI 3	Reduced	519000	2595	20.09	21.50	1.384	-0.19	0.346	0.479
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	21.32	22.00	1.169	-0.14	0.289	0.338
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	21.32	22.00	1.169	-0.05	0.454	0.531

	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	21.20	22.00	1.202	0.18	0.308	0.370
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	21.20	22.00	1.202	-0.15	0.457	0.549
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	650000	3750	21.28	22.00	1.180	-0.07	0.150	0.177
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	650000	3750	21.28	22.00	1.180	0.14	0.325	0.384
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	650000	3750	21.23	22.00	1.194	-0.08	0.144	0.172
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	650000	3750	21.23	22.00	1.194	-0.02	0.339	0.405
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	Reduced	633334	3500.01	22.57	24.00	1.390	-0.02	0.257	0.357
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	Reduced	633334	3500.01	22.57	24.00	1.390	0.16	0.317	0.441
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	Reduced	633334	3500.01	22.53	24.00	1.403	0.08	0.291	0.408
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	Reduced	633334	3500.01	22.53	24.00	1.403	0.04	0.361	0.506
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	Reduced	650000	3750	22.47	24.00	1.422	-0.04	0.349	0.496
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	Reduced	650000	3750	22.47	24.00	1.422	-0.17	0.359	0.511
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	Reduced	650000	3750	22.43	24.00	1.435	0.18	0.355	0.510
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	Reduced	650000	3750	22.43	24.00	1.435	-0.01	0.368	0.528
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.58	17.50	1.236	-0.06	0.114	0.141
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.58	17.50	1.236	-0.16	0.132	0.163
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.55	17.50	1.245	-0.05	0.118	0.147
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.55	17.50	1.245	-0.1	0.140	0.174
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.48	17.50	1.265	0.19	0.104	0.132
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.48	17.50	1.265	-0.19	0.117	0.148
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.45	17.50	1.274	-0.09	0.100	0.127
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.45	17.50	1.274	-0.15	0.117	0.149
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	21.34	22.50	1.306	-0.13	0.000	0.000
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	21.34	22.50	1.306	0.06	0.256	0.334
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	21.09	22.50	1.384	-0.03	0.047	0.065
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	21.09	22.50	1.384	0.09	0.367	0.508
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	650000	3750	21.24	22.50	1.337	0.15	0.041	0.055
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	650000	3750	21.24	22.50	1.337	0.01	0.212	0.283
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	650000	3750	21.08	22.50	1.387	-0.16	0.000	0.000
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	650000	3750	21.08	22.50	1.387	-0.07	0.203	0.282

<5G NR EN-DC SAR>

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 1	Reduced	18700	1860	21.95	22.50	1.135	-0.15	0.160	0.182
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 1	Reduced	18700	1860	21.95	22.50	1.135	0.06	0.238	0.270
	LTE Band 2	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 3	Full	18700	1860	23.81	24.50	1.172	-0.02	0.296	0.347
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	Full	18700	1860	23.81	24.50	1.172	0.1	0.357	0.418
	LTE Band 2	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	18700	1860	21.89	22.50	1.151	0.16	0.177	0.204
	LTE Band 2	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	18700	1860	21.89	22.50	1.151	-0.16	0.304	0.350
	LTE Band 2	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 3	Full	18700	1860	22.73	23.50	1.194	-0.09	0.243	0.290
	LTE Band 2	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 3	Full	18700	1860	22.73	23.50	1.194	0.01	0.327	0.390
	LTE Band 2	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	Full	18700	1860	23.96	25.00	1.271	0.07	0.144	0.183
	LTE Band 2	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Full	18700	1860	23.96	25.00	1.271	-0.06	0.241	0.306
	LTE Band 2	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Full	18700	1860	22.93	24.00	1.279	-0.05	0.121	0.155
	LTE Band 2	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Full	18700	1860	22.93	24.00	1.279	0.11	0.147	0.188
	LTE Band 5	10M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Reduced	20525	836.5	24.02	24.20	1.042	-0.14	0.189	0.197
	LTE Band 5	10M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Reduced	20525	836.5	24.02	24.20	1.042	0.14	0.254	0.265
	LTE Band 5	10M	QPSK	25	0	Front	15mm	Ant 0	DSI 1	Reduced	20525	836.5	23.69	24.20	1.125	0.04	0.188	0.211
	LTE Band 5	10M	QPSK	25	0	Back	15mm	Ant 0	DSI 1	Reduced	20525	836.5	23.69	24.20	1.125	-0.12	0.217	0.244
	LTE Band 5	10M	QPSK	1	0	Front	15mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.22	22.20	1.253	-0.09	0.290	0.363
	LTE Band 5	10M	QPSK	1	0	Back	15mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.22	22.20	1.253	0.16	0.117	0.147
	LTE Band 5	10M	QPSK	25	0	Front	15mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.10	22.20	1.288	-0.09	0.139	0.179
	LTE Band 5	10M	QPSK	25	0	Back	15mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.10	22.20	1.288	0.11	0.128	0.165
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Reduced	21100	2535	21.29	22.00	1.178	-0.15	0.158	0.186
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Reduced	21100	2535	21.29	22.00	1.178	0.13	0.093	0.110
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 3	Full	21100	2535	23.36	24.00	1.159	-0.11	0.251	0.291
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	Full	21100	2535	23.36	24.00	1.159	0.17	0.147	0.170
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 1	Reduced	21100	2535	21.28	22.00	1.180	-0.1	0.159	0.188
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 1	Reduced	21100	2535	21.28	22.00	1.180	0.18	0.097	0.114
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 1	Reduced	21100	2535	20.56	21.50	1.242	-0.17	0.154	0.191
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 1	Reduced	21100	2535	20.56	21.50	1.242	-0.17	0.203	0.252
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 3	Full	21100	2535	21.88	23.00	1.294	0.09	0.198	0.256
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	Full	21100	2535	21.88	23.00	1.294	0.01	0.267	0.346
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	21100	2535	20.53	21.50	1.250	0.19	0.160	0.200
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	21100	2535	20.53	21.50	1.250	0.11	0.213	0.266
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	Full	21100	2535	22.25	23.50	1.334	-0.14	0.182	0.243
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Full	21100	2535	22.25	23.50	1.334	0.03	0.225	0.300
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Full	21100	2535	21.12	22.50	1.374	-0.06	0.145	0.199
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Full	21100	2535	21.12	22.50	1.374	-0.02	0.180	0.247
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.64	22.50	1.219	0.11	0.342	0.417
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.64	22.50	1.219	0.07	0.380	0.463
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.59	22.50	1.233	0.02	0.314	0.387
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.59	22.50	1.233	0.04	0.352	0.434
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 1	Reduced	21100	2535	20.68	21.50	1.208	0.04	0.121	0.146
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 1	Reduced	21100	2535	20.68	21.50	1.208	-0.1	0.092	0.111
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 1	Reduced	21100	2535	20.56	21.50	1.242	0.02	0.105	0.130
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 1	Reduced	21100	2535	20.56	21.50	1.242	-0.07	0.097	0.120
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.66	20.00	1.081	-0.19	0.093	0.101
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.66	20.00	1.081	0.07	0.136	0.147
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.60	20.00	1.096	0.01	0.096	0.105
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	21100	2535	19.60	20.00	1.096	0.03	0.178	0.195
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	Reduced	21100	2535	22.10	23.20	1.288	-0.03	0.270	0.348
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	Reduced	21100	2535	22.10	23.20	1.288	0.11	0.419	0.540
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Reduced	21100	2535	22.05	23.20	1.303	-0.19	0.287	0.374

	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Reduced	21100	2535	22.05	23.20	1.303	0.09	0.411	0.536
	LTE Band 7	20M	QPSK	1	0	Front	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.72	23.00	1.343	0.11	0.316	0.424
	LTE Band 7	20M	QPSK	1	0	Back	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.72	23.00	1.343	-0.11	0.389	0.522
	LTE Band 7	20M	QPSK	50	0	Front	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.31	23.00	1.476	-0.06	0.281	0.415
	LTE Band 7	20M	QPSK	50	0	Back	15mm	Ant 5	DSI 3	Reduced	21100	2535	21.31	23.00	1.476	0.06	0.287	0.424

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 38	20M	QPSK	1	99	Front	15mm	Ant 0	DSI 1	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	-0.1	0.111	0.138
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 0	DSI 1	Reduced	37850	2580	22.09	23.00	1.233	62.9	1.006	0.07	0.135	0.167
	LTE Band 38	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 1	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	-0.1	0.122	0.159
	LTE Band 38	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 1	Reduced	37850	2580	21.88	23.00	1.294	62.9	1.006	0.09	0.131	0.171
	LTE Band 38	20M	QPSK	1	99	Front	15mm	Ant 2	DSI 1	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	-0.12	0.097	0.110
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 2	DSI 1	Reduced	37850	2580	21.47	22.00	1.130	62.9	1.006	0.1	0.177	0.201
	LTE Band 38	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	0.14	0.099	0.114
	LTE Band 38	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	37850	2580	21.42	22.00	1.143	62.9	1.006	0.02	0.181	0.208
	LTE Band 38	20M	QPSK	1	99	Front	15mm	Ant 3	DSI 3	Full	37850	2580	25.06	25.70	1.159	62.9	1.006	0.04	0.207	0.241
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 3	DSI 3	Full	37850	2580	25.06	25.70	1.159	62.9	1.006	0.16	0.464	0.541
	LTE Band 38	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Full	37850	2580	23.99	24.70	1.178	62.9	1.006	-0.03	0.167	0.198
	LTE Band 38	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Full	37850	2580	23.99	24.70	1.178	62.9	1.006	-0.14	0.246	0.291
	LTE Band 38	20M	QPSK	1	99	Front	15mm	Ant 5	DSI 3	Full	37850	2580	24.12	25.00	1.225	62.9	1.006	0.19	0.293	0.361
	LTE Band 38	20M	QPSK	1	99	Back	15mm	Ant 5	DSI 3	Full	37850	2580	24.12	25.00	1.225	62.9	1.006	0.18	0.409	0.504
	LTE Band 38	20M	QPSK	50	0	Front	15mm	Ant 5	DSI 3	Full	37850	2580	23.12	24.00	1.225	62.9	1.006	0.11	0.184	0.227
	LTE Band 38	20M	QPSK	50	0	Back	15mm	Ant 5	DSI 3	Full	37850	2580	23.12	24.00	1.225	62.9	1.006	-0.13	0.217	0.267
	LTE Band 41	20M	QPSK	1	99	Front	15mm	Ant 0	DSI 1	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-0.16	0.084	0.095
	LTE Band 41	20M	QPSK	1	99	Back	15mm	Ant 0	DSI 1	Reduced	40185	2549.5	21.98	22.50	1.127	62.9	1.006	-0.19	0.060	0.068
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 1	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	0.11	0.099	0.113
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 1	Reduced	40185	2549.5	21.96	22.50	1.132	62.9	1.006	0.09	0.056	0.064
	LTE Band 41	20M	QPSK	1	99	Front	15mm	Ant 2	DSI 1	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	0.13	0.096	0.097
	LTE Band 41	20M	QPSK	1	99	Back	15mm	Ant 2	DSI 1	Reduced	40185	2549.5	21.46	21.50	1.009	62.9	1.006	-0.01	0.225	0.228
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 1	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	0	0.097	0.101
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 1	Reduced	40185	2549.5	21.36	21.50	1.033	62.9	1.006	-0.07	0.253	0.263
	LTE Band 41	20M	QPSK	1	99	Front	15mm	Ant 3	DSI 3	Full	40185	2549.5	25.65	25.70	1.012	62.9	1.006	0.08	0.259	0.264
	LTE Band 41	20M	QPSK	1	99	Back	15mm	Ant 3	DSI 3	Full	40185	2549.5	25.65	25.70	1.012	62.9	1.006	0.08	0.537	0.546
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	Full	40185	2549.5	24.68	24.70	1.005	62.9	1.006	0.19	0.207	0.209
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	Full	40185	2549.5	24.68	24.70	1.005	62.9	1.006	0.13	0.308	0.311
	LTE Band 41	20M	QPSK	1	99	Front	15mm	Ant 5	DSI 3	Full	40185	2549.5	24.58	25.00	1.102	62.9	1.006	-0.07	0.252	0.279
	LTE Band 41	20M	QPSK	1	99	Back	15mm	Ant 5	DSI 3	Full	40185	2549.5	24.58	25.00	1.102	62.9	1.006	0.09	0.405	0.449
	LTE Band 41	20M	QPSK	50	0	Front	15mm	Ant 5	DSI 3	Full	40185	2549.5	23.45	24.00	1.135	62.9	1.006	-0.03	0.192	0.219
	LTE Band 41	20M	QPSK	50	0	Back	15mm	Ant 5	DSI 3	Full	40185	2549.5	23.45	24.00	1.135	62.9	1.006	-0.04	0.237	0.271

<5G NR NSA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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 n5	20M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.76	25.20	1.107	0.11	0.232	0.257
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.76	25.20	1.107	0.11	0.297	0.329
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.58	25.20	1.153	-0.12	0.241	0.278
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	167300	836.5	24.58	25.20	1.153	-0.15	0.301	0.347
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	15mm	Ant 0	DSI 3	Full	167300	836.5	25.08	25.70	1.153	-0.12	0.311	0.359
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	15mm	Ant 0	DSI 3	Full	167300	836.5	25.08	25.70	1.153	-0.15	0.401	0.463
	FR1 n5	20M	BPSK	1	1	DFT-15	Front	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	21.12	21.70	1.143	-0.03	0.113	0.129
	FR1 n5	20M	BPSK	1	1	DFT-15	Back	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	21.12	21.70	1.143	-0.06	0.105	0.120
	FR1 n5	20M	BPSK	50	28	DFT-15	Front	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	20.95	21.70	1.189	-0.13	0.146	0.174
	FR1 n5	20M	BPSK	50	28	DFT-15	Back	15mm	Ant 1	DSI 1/3	Reduced	167300	836.5	20.95	21.70	1.189	0.18	0.159	0.189
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.49	22.50	1.262	0.13	0.172	0.217
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.49	22.50	1.262	0.01	0.126	0.159
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 3	Full	507000	2535	23.47	24.50	1.268	0.01	0.258	0.327
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 3	Full	507000	2535	23.47	24.50	1.268	-0.02	0.178	0.226
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.47	22.50	1.268	0.05	0.163	0.207
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 0	DSI 1	Reduced	507000	2535	21.47	22.50	1.268	-0.17	0.080	0.101
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.97	20.50	1.130	-0.07	0.129	0.146
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.97	20.50	1.130	0.09	0.168	0.190
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 3	Full	507000	2535	21.95	22.50	1.135	-0.14	0.193	0.219
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 3	Full	507000	2535	21.95	22.50	1.135	-0.17	0.272	0.309
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.95	20.50	1.135	0.16	0.125	0.142
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 2	DSI 1	Reduced	507000	2535	19.95	20.50	1.135	-0.09	0.163	0.185
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 3	Full	507000	2535	22.28	23.50	1.324	0.18	0.162	0.215
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 3	Full	507000	2535	22.28	23.50	1.324	-0.08	0.196	0.260
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 3	DSI 3	Full	507000	2535	22.02	23.50	1.406	-0.12	0.209	0.294
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 3	DSI 3	Full	507000	2535	22.02	23.50	1.406	-0.14	0.270	0.380
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 5	DSI 3	Reduced	507000	2535	22.14	23.00	1.219	-0.06	0.286	0.349
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 5	DSI 3	Reduced	507000	2535	22.14	23.00	1.219	-0.06	0.346	0.422
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 5	DSI 3	Reduced	507000	2535	21.90	23.00	1.288	0.09	0.378	0.487
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 5	DSI 3	Reduced	507000	2535	21.90	23.00	1.288	-0.11	0.416	0.536
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	21.32	22.00	1.169	-0.14	0.289	0.338
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	21.32	22.00	1.169	-0.05	0.454	0.531
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	21.20	22.00	1.202	0.18	0.308	0.370
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	633334	3500.01	21.20	22.00	1.202	-0.15	0.457	0.549
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	650000	3750	21.28	22.00	1.180	-0.07	0.150	0.177
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	650000	3750	21.28	22.00	1.180	0.14	0.325	0.384
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	Reduced	650000	3750	21.23	22.00	1.194	-0.08	0.144	0.172
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	Reduced	650000	3750	21.23	22.00	1.194	-0.02	0.339	0.405
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	Reduced	633334	3500.01	22.57	24.00	1.390	-0.02	0.257	0.357
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	Reduced	633334	3500.01	22.57	24.00	1.390	0.16	0.317	0.441
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	Reduced	633334	3500.01	22.53	24.00	1.403	0.08	0.291	0.408
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	Reduced	633334	3500.01	22.53	24.00	1.403	0.04	0.361	0.506
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	Reduced	650000	3750	22.47	24.00	1.422	-0.04	0.349	0.496
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	Reduced	650000	3750	22.47	24.00	1.422	-0.17	0.359	0.511
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	Reduced	650000	3750	22.43	24.00	1.435	0.18	0.355	0.510
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	Reduced	650000	3750	22.43	24.00	1.435	-0.01	0.368	0.528
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.58	17.50	1.236	-0.06	0.114	0.141
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.58	17.50	1.236	-0.16	0.132	0.163
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.55	17.50	1.245	-0.05	0.118	0.147
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	633334	3500.01	16.55	17.50	1.245	-0.1	0.140	0.174
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.48	17.50	1.265	0.19	0.104	0.132
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.48	17.50	1.265	-0.19	0.117	0.148

	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.45	17.50	1.274	-0.09	0.100	0.127
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 1/3	Reduced	650000	3750	16.45	17.50	1.274	-0.15	0.117	0.149
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	21.34	22.50	1.306	-0.13	0.000	0.000
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	21.34	22.50	1.306	0.06	0.256	0.334
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	21.09	22.50	1.384	-0.03	0.047	0.065
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	633334	3500.01	21.09	22.50	1.384	0.09	0.367	0.508
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	650000	3750	21.24	22.50	1.337	0.15	0.041	0.055
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	650000	3750	21.24	22.50	1.337	0.01	0.212	0.283
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 8	DSI 3	Reduced	650000	3750	21.08	22.50	1.387	-0.16	0.000	0.000
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 8	DSI 3	Reduced	650000	3750	21.08	22.50	1.387	-0.07	0.203	0.282

<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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	15mm	Ant 16	Full	6	2437	18.70	20.00	1.349	99.6	1.004	0.02	0.057	0.077
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 16	Full	6	2437	18.70	20.00	1.349	99.6	1.004	0.04	0.116	0.157
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 18	Full	6	2437	18.30	20.00	1.479	99.6	1.004	0.05	0.076	0.113
70	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 18	Full	6	2437	18.30	20.00	1.479	99.6	1.004	-0.12	0.194	**0.288**
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 16+18	Full	6	2437	21.51	23.00	1.409	99.6	1.004	-0.03	0.091	0.129
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 16+18	Full	6	2437	21.51	23.00	1.409	99.6	1.004	0.02	0.130	0.184

<WLAN5G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
71	WLAN5.3GHz	802.11a 6Mbps	Front	15mm	Ant 17	Full	60	5300	14.50	15.50	1.259	97	1.031	0.15	0.145	**0.188**
	WLAN5.3GHz	802.11a 6Mbps	Back	15mm	Ant 17	Full	60	5300	14.50	15.50	1.259	97	1.031	-	n/a	n/a
	WLAN5.3GHz	802.11a 6Mbps	Front	15mm	Ant 18	Full	60	5300	14.10	15.00	1.230	97	1.031	-0.04	0.060	0.076
	WLAN5.3GHz	802.11a 6Mbps	Back	15mm	Ant 18	Full	60	5300	14.10	15.00	1.230	97	1.031	0.08	0.075	0.095
	WLAN5.3GHz	802.11a 6Mbps	Front	15mm	Ant 17+18	Full	60	5300	17.31	18.50	1.315	97	1.031	-0.05	0.125	0.169
	WLAN5.3GHz	802.11a 6Mbps	Back	15mm	Ant 17+18	Full	60	5300	17.31	18.50	1.315	97	1.031	-	n/a	n/a
	WLAN5.5GHz	802.11a 6Mbps	Front	15mm	Ant 17	Full	100	5500	15.90	16.50	1.148	97	1.031	0.06	0.186	0.220
	WLAN5.5GHz	802.11a 6Mbps	Back	15mm	Ant 17	Full	100	5500	15.90	16.50	1.148	97	1.031	-	n/a	n/a
	WLAN5.5GHz	802.11a 6Mbps	Front	15mm	Ant 18	Full	100	5500	15.10	16.00	1.230	97	1.031	0.02	0.083	0.105
	WLAN5.5GHz	802.11a 6Mbps	Back	15mm	Ant 18	Full	100	5500	15.10	16.00	1.230	97	1.031	0.09	0.131	0.166
72	WLAN5.5GHz	802.11a 6Mbps	Front	15mm	Ant 17+18	Full	100	5500	18.53	19.00	1.114	97	1.031	-0.17	0.206	**0.237**
	WLAN5.5GHz	802.11a 6Mbps	Back	15mm	Ant 17+18	Full	100	5500	18.53	19.00	1.114	97	1.031	0.05	0.097	0.111
	WLAN5.8GHz	802.11a 6Mbps	Front	15mm	Ant 17	Full	165	5825	17.60	18.50	1.230	97	1.031	-0.03	0.114	0.145
	WLAN5.8GHz	802.11a 6Mbps	Back	15mm	Ant 17	Full	165	5825	17.60	18.50	1.230	97	1.031	0.04	0.100	0.127
	WLAN5.8GHz	802.11a 6Mbps	Front	15mm	Ant 18	Full	157	5785	17.10	18.00	1.230	97	1.031	0.08	0.126	0.160
	WLAN5.8GHz	802.11a 6Mbps	Back	15mm	Ant 18	Full	157	5785	17.10	18.00	1.230	97	1.031	0.05	0.274	0.348
73	WLAN5.8GHz	802.11a 6Mbps	Front	15mm	Ant 17+18	Full	157	5785	20.26	21.50	1.330	97	1.031	-0.18	0.270	**0.370**
	WLAN5.8GHz	802.11a 6Mbps	Back	15mm	Ant 17+18	Full	157	5785	20.26	21.50	1.330	97	1.031	0.02	0.188	0.258

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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	DH5 1Mbps	Front	15mm	Ant 16	Full	39	2441	17.36	18.00	1.159	76.72	1.303	-	n/a	n/a
74	Bluetooth	DH5 1Mbps	Back	15mm	Ant 16	Full	39	2441	17.36	18.00	1.159	76.72	1.303	-0.08	0.055	**0.083**

15.4 Product Specific SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
75	GSM850	GPRS 4 TX slots	Left Side	0mm	Ant 1	DSI 1/3	Full	189	836.4	25.76	27.50	1.493	0.14	0.580	**0.866**

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 1	Reduced	1413	1732.6	21.12	22.00	1.225	-0.03	1.700	2.082
76	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 1	Reduced	1312	1712.4	21.09	22.00	1.233	-0.1	2.140	**2.639**
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 1	Reduced	1513	1752.6	21.06	22.00	1.242	0.05	1.580	1.962
	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 1	Reduced	1413	1732.6	21.12	22.00	1.225	0.08	1.020	1.249
	WCDMA IV	RMC 12.2Kbps	Back	15mm	Ant 2	DSI 3	Full	1312	1712.4	23.99	25.00	1.262	0.08	0.291	0.367
	WCDMA IV	RMC 12.2Kbps	Bottom Side	15mm	Ant 2	DSI 3	Full	1413	1732.6	24.11	25.00	1.227	0.02	0.354	0.435
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 5	DSI 1	Reduced	1413	1732.6	20.39	22.00	1.449	-0.07	1.470	2.130
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 5	DSI 1	Reduced	1312	1712.4	20.28	22.00	1.486	0.02	1.290	1.917
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 5	DSI 1	Reduced	1513	1752.6	20.34	22.00	1.466	0.06	1.790	2.623
	WCDMA IV	RMC 12.2Kbps	Top Side	5mm	Ant 5	DSI 3	Full	1513	1752.6	23.48	25.00	1.419	0.04	1.080	1.533
77	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 1	Reduced	9400	1880	19.94	21.00	1.276	-0.16	1.850	**2.361**
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 1	Reduced	9262	1852.4	19.93	21.00	1.279	-0.18	1.090	1.395
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 1	Reduced	9538	1907.6	19.89	21.00	1.291	0.07	1.100	1.420
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 1	Reduced	9400	1880	19.94	21.00	1.276	-0.06	0.982	1.253
	WCDMA II	RMC 12.2Kbps	Back	15mm	Ant 2	DSI 3	Full	9400	1880	24.11	25.00	1.227	-0.03	0.195	0.239
	WCDMA II	RMC 12.2Kbps	Bottom Side	15mm	Ant 2	DSI 3	Full	9400	1880	24.11	25.00	1.227	0.05	0.379	0.465
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 5	DSI 1	Reduced	9400	1880	20.17	22.00	1.524	0.1	1.470	2.240
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 5	DSI 1	Reduced	9262	1852.4	20.16	22.00	1.528	0.06	1.350	2.062
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 5	DSI 1	Reduced	9538	1907.6	20.06	22.00	1.563	0.01	1.390	2.173
	WCDMA II	RMC 12.2Kbps	Top Side	5mm	Ant 5	DSI 3	Full	9400	1880	23.42	25.00	1.439	0.06	1.030	1.482

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
78	LTE Band 12	10M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23095	707.5	24.69	25.20	1.125	0.19	2.280	**2.564**
	LTE Band 12	10M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23060	704	24.61	25.20	1.146	-0.02	2.010	2.302
	LTE Band 12	10M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23130	711	24.59	25.20	1.151	0.05	2.050	2.359
	LTE Band 12	10M	QPSK	25	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23095	707.5	24.17	24.70	1.130	0.11	2.070	2.339
	LTE Band 12	10M	QPSK	25	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23060	704	24.13	24.70	1.140	0.03	2.030	2.315
	LTE Band 12	10M	QPSK	25	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23130	711	24.16	24.70	1.132	0.07	2.040	2.310
	LTE Band 12	10M	QPSK	50	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23095	707.5	24.05	24.70	1.161	-0.05	2.030	2.358
79	LTE Band 17	10M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23790	710	24.69	25.20	1.125	0.09	2.030	**2.283**
	LTE Band 17	10M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23780	709	24.59	25.20	1.151	-0.05	1.910	2.198
	LTE Band 17	10M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23800	711	24.59	25.20	1.151	0.06	1.890	2.175
	LTE Band 17	10M	QPSK	25	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23790	710	24.08	24.70	1.153	-0.15	1.980	2.284
	LTE Band 17	10M	QPSK	25	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23780	709	24.07	24.70	1.156	0.11	1.900	2.197
	LTE Band 17	10M	QPSK	25	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23800	711	23.98	24.70	1.180	0.04	1.920	2.266
	LTE Band 17	10M	QPSK	50	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23790	710	24.07	24.70	1.156	0.15	1.710	1.977
80	LTE Band 26	15M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Full	26865	831.5	25.09	25.70	1.151	-0.13	2.090	**2.405**
	LTE Band 26	15M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Full	26765	821.5	25.00	25.70	1.175	0.03	1.910	2.244
	LTE Band 26	15M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Full	26965	841.5	25.01	25.70	1.172	0.09	1.920	2.251
	LTE Band 26	15M	QPSK	36	0	Left Side	0mm	Ant 1	DSI 1/3	Full	26865	831.5	24.03	24.70	1.167	0.18	1.930	2.252
	LTE Band 26	15M	QPSK	36	0	Left Side	0mm	Ant 1	DSI 1/3	Full	26765	821.5	24.00	24.70	1.175	-0.08	1.890	2.221
	LTE Band 26	15M	QPSK	36	0	Left Side	0mm	Ant 1	DSI 1/3	Full	26965	841.5	23.98	24.70	1.180	0.06	1.860	2.195
	LTE Band 26	15M	QPSK	75	0	Left Side	0mm	Ant 1	DSI 1/3	Full	26865	831.5	24.04	24.70	1.164	0.08	1.620	1.886
	LTE Band 4	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.86	21.00	1.033	0.08	1.940	2.004
	LTE Band 4	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 1	Reduced	20050	1720	20.62	21.00	1.091	0.02	1.790	1.954
	LTE Band 4	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 1	Reduced	20300	1745	20.68	21.00	1.076	0.07	1.810	1.948
	LTE Band 4	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.86	21.00	1.033	0.07	0.925	0.955
	LTE Band 4	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	Full	20175	1732.5	25.32	25.50	1.042	-0.03	0.408	0.425
	LTE Band 4	20M	QPSK	1	0	Bottom Side	15mm	Ant 2	DSI 3	Full	20175	1732.5	25.32	25.50	1.042	0.06	0.457	0.476
	LTE Band 4	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.76	21.00	1.057	0.11	1.900	2.008
	LTE Band 4	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 1	Reduced	20050	1720	20.67	21.00	1.079	-0.05	1.750	1.888
	LTE Band 4	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 1	Reduced	20300	1745	20.58	21.00	1.102	0.08	1.780	1.961
	LTE Band 4	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.76	21.00	1.057	0.04	0.891	0.942
	LTE Band 4	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 3	Full	20175	1732.5	24.27	24.50	1.054	-0.09	0.324	0.342
	LTE Band 4	20M	QPSK	50	0	Bottom Side	15mm	Ant 2	DSI 3	Full	20175	1732.5	24.27	24.50	1.054	-0.02	0.360	0.380
	LTE Band 4	20M	QPSK	100	0	Back	0mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.74	21.00	1.062	0.19	1.790	1.900
	LTE Band 4	20M	QPSK	1	0	Left Side	0mm	Ant 3	DSI 1	Reduced	20175	1732.5	23.65	23.70	1.012	0.06	1.720	1.740
	LTE Band 4	20M	QPSK	50	0	Left Side	0mm	Ant 3	DSI 1	Reduced	20175	1732.5	23.58	23.70	1.028	-0.05	1.690	1.737
	LTE Band 4	20M	QPSK	1	0	Left Side	5mm	Ant 3	DSI 3	Full	20175	1732.5	25.55	25.70	1.035	-0.02	1.350	1.397
	LTE Band 4	20M	QPSK	50	0	Left Side	5mm	Ant 3	DSI 3	Full	20175	1732.5	24.52	24.70	1.042	0.04	1.090	1.136
	LTE Band 4	20M	QPSK	1	0	Top Side	0mm	Ant 5	DSI 1	Reduced	20175	1732.5	21.36	21.50	1.033	-0.02	1.840	1.900
81	LTE Band 4	20M	QPSK	50	0	Top Side	0mm	Ant 5	DSI 1	Reduced	20175	1732.5	21.24	21.50	1.062	-0.19	1.920	**2.038**
	LTE Band 4	20M	QPSK	50	0	Top Side	0mm	Ant 5	DSI 1	Reduced	20050	1720	21.07	21.50	1.104	0.05	1.790	1.976
	LTE Band 4	20M	QPSK	50	0	Top Side	0mm	Ant 5	DSI 1	Reduced	20300	1745	21.02	21.50	1.117	0.07	1.780	1.988
	LTE Band 4	20M	QPSK	100	0	Top Side	0mm	Ant 5	DSI 1	Reduced	20175	1732.5	21.19	21.50	1.074	0.15	1.850	1.987
	LTE Band 4	20M	QPSK	1	0	Top Side	5mm	Ant 5	DSI 3	Full	20175	1732.5	24.55	25.00	1.109	0.04	1.260	1.398
	LTE Band 4	20M	QPSK	50	0	Top Side	5mm	Ant 5	DSI 3	Full	20175	1732.5	23.38	24.00	1.153	-0.02	1.010	1.165
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	18700	1860	21.95	22.50	1.135	-0.02	1.570	1.782
82	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	18700	1860	21.89	22.50	1.151	0.15	1.680	**1.933**
	LTE Band 2	20M	QPSK	1	0	Bottom Side	15mm	Ant 2	DSI 3	Full	18700	1860	23.81	24.50	1.172	-0.04	0.323	0.379
	LTE Band 2	20M	QPSK	50	0	Bottom Side	15mm	Ant 2	DSI 3	Full	18700	1860	22.73	23.50	1.194	0.02	0.265	0.316
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	21100	2535	19.66	20.00	1.081	0.11	1.130	1.222
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	21100	2535	19.60	20.00	1.096	-0.13	1.050	1.151
	LTE Band 7C	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	21100	2535	18.27	20.00	1.489	0.01	0.891	1.327

											+20902	+2515.2						
	LTE Band 7	20M	QPSK	1	0	Bottom Side	15mm	Ant 2	DSI 3	Full	21100	2535	24.19	25.00	1.205	0.01	0.219	0.264
	LTE Band 7	20M	QPSK	50	0	Bottom Side	15mm	Ant 2	DSI 3	Full	21100	2535	23.18	24.00	1.208	-0.09	0.181	0.219
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.22	20.20	1.253	0.1	0.953	1.194
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.22	20.20	1.253	-0.08	0.837	1.049
	LTE Band 7C	20M	QPSK	1	0	Back	0mm	Ant 3	DSI 1	Reduced	21100 +20902	2535 +2515.2	18.83	20.20	1.371	-0.11	0.930	1.275
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 3	DSI 3	Full	21100	2535	24.62	25.70	1.282	0.06	1.200	1.539
83	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 3	DSI 3	Full	21100	2535	24.62	25.70	1.282	-0.02	2.050	**2.629**
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 3	DSI 3	Full	20850	2510	24.40	25.70	1.349	0.05	1.920	2.590
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 3	DSI 3	Full	21350	2560	24.37	25.70	1.358	0.03	1.650	2.241
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.21	20.20	1.256	-0.08	0.937	1.177
	LTE Band 7	20M	QPSK	50	0	Left Side	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.21	20.20	1.256	0.17	0.819	1.029
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 5	DSI 1	Reduced	21100	2535	19.57	20.50	1.239	-0.17	1.180	1.462
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 5	DSI 1	Reduced	21100	2535	19.46	20.50	1.271	0.12	1.030	1.309
	LTE Band 7C	20M	QPSK	1	0	Top Side	0mm	Ant 5	DSI 1	Reduced	21100 +20902	2535 +2515.2	18.94	20.50	1.432	0.17	0.982	1.406
	LTE Band 7	20M	QPSK	1	0	Top Side	5mm	Ant 5	DSI 3	Full	21100	2535	22.91	24.50	1.442	0.01	1.350	1.947

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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)
	LTE Band 38	20M	QPSK	1	99	Left Side	0mm	Ant 3	DSI 1	Reduced	37850	2580	21.91	22.20	1.069	62.9	1.006	0.17	0.869	0.935
	LTE Band 38	20M	QPSK	50	0	Left Side	0mm	Ant 3	DSI 1	Reduced	37850	2580	21.86	22.20	1.081	62.9	1.006	-0.1	0.645	0.702
	LTE Band 38C	20M	QPSK	1	99	Left Side	0mm	Ant 3	DSI 1	Reduced	37850 +38048	2580 +2599.8	21.52	22.20	1.169	62.9	1.006	0.06	0.746	0.878
84	LTE Band 38	20M	QPSK	1	99	Left Side	5mm	Ant 3	DSI 3	Full	37850	2580	25.06	25.70	1.159	62.9	1.006	0.06	1.250	**1.457**

<LTE UL CA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	18700	1860	21.95	22.50	1.135	-0.02	1.570	1.782
	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	18700	1860	21.89	22.50	1.151	0.15	1.680	1.933
	LTE Band 4_Other PA	20M	QPSK	1	0	Top Side	0mm	Ant 5	DSI 1	Reduced	20175	1732.5	22.39	22.50	1.026	0.16	1.830	1.877
	LTE Band 4_Other PA	20M	QPSK	50	0	Top Side	0mm	Ant 5	DSI 1	Reduced	20175	1732.5	22.37	22.50	1.030	0.14	1.800	1.855
	LTE Band 4	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.86	21.00	1.033	0.08	1.940	2.004
	LTE Band 4	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 1	Reduced	20050	1720	20.62	21.00	1.091	0.18	1.860	2.030
	LTE Band 4	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 1	Reduced	20300	1745	20.68	21.00	1.076	0.14	1.760	1.895
	LTE Band 4	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.86	21.00	1.033	0.07	0.925	0.955
	LTE Band 4	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.76	21.00	1.057	0.11	1.900	2.008
	LTE Band 4	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 1	Reduced	20050	1720	20.67	21.00	1.079	0.11	1.810	1.953
	LTE Band 4	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 1	Reduced	20300	1745	20.58	21.00	1.102	0.08	1.790	1.972
	LTE Band 4	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.76	21.00	1.057	0.04	0.891	0.942
	LTE Band 4	20M	QPSK	100	0	Back	0mm	Ant 2	DSI 1	Reduced	20175	1732.5	20.74	21.00	1.062	0.19	1.790	1.900
	LTE Band 4	20M	QPSK	1	0	Left Side	0mm	Ant 3	DSI 1	Reduced	20175	1732.5	23.65	23.70	1.012	0.06	1.720	1.740
	LTE Band 4	20M	QPSK	50	0	Left Side	0mm	Ant 3	DSI 1	Reduced	20175	1732.5	23.58	23.70	1.028	-0.05	1.690	1.737
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	0mm	Ant 5	DSI1	Reduced	21100	2535	19.05	20.00	1.245	0.05	1.150	1.431
	LTE Band 7_Other PA	20M	QPSK	1	0	Top Side	0mm	Ant 5	DSI1	Reduced	21100	2535	19.05	20.00	1.245	-0.04	1.130	1.406
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	0mm	Ant 5	DSI1	Reduced	21100	2535	18.83	20.00	1.309	0.08	1.170	1.532
	LTE Band 7_Other PA	20M	QPSK	50	0	Top Side	0mm	Ant 5	DSI1	Reduced	21100	2535	18.83	20.00	1.309	0.01	1.150	1.506
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	21100	2535	19.66	20.00	1.081	0.11	0.853	0.922
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	21100	2535	19.60	20.00	1.096	-0.13	1.130	1.239
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.22	20.20	1.253	0.1	0.953	1.194
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.22	20.20	1.253	-0.08	0.837	1.049
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.21	20.20	1.256	-0.08	0.937	1.177
	LTE Band 7	20M	QPSK	50	0	Left Side	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.21	20.20	1.256	0.17	0.639	0.803

<5G NR SA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	0mm	Ant 3	DSI 1	Reduced	507000	2535	20.20	21.20	1.259	0.05	1.010	1.272
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	0mm	Ant 3	DSI 1	Reduced	507000	2535	20.20	21.20	1.259	-0.13	0.830	1.045
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	5mm	Ant 3	DSI 3	Reduced	507000	2535	24.26	25.20	1.242	0.05	1.200	1.490
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 3	DSI 3	Reduced	507000	2535	24.26	25.20	1.242	0.02	1.590	1.974
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	0mm	Ant 3	DSI 1	Reduced	507000	2535	20.12	21.20	1.282	-0.02	1.050	1.346
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	0mm	Ant 3	DSI 1	Reduced	507000	2535	20.12	21.20	1.282	-0.05	0.850	1.090
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	5mm	Ant 3	DSI 3	Reduced	507000	2535	24.25	25.20	1.245	-0.06	1.240	1.543
85	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	5mm	Ant 3	DSI 3	Reduced	507000	2535	24.25	25.20	1.245	0.04	1.700	**2.116**
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	5mm	Ant 3	DSI 3	Reduced	505000	2525	24.19	25.20	1.262	-0.05	1.620	2.044
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	5mm	Ant 3	DSI 3	Reduced	509000	2545	24.23	25.20	1.250	-0.06	1.580	1.975
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	0mm	Ant 5	DSI 1	Reduced	507000	2535	18.20	19.50	1.349	0.09	1.210	1.632
	FR1 n7	50M	BPSK	1	1	DFT-15	Top Side	0mm	Ant 5	DSI 1	Reduced	507000	2535	18.20	19.50	1.349	0.1	0.952	1.284
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	5mm	Ant 5	DSI 3	Full	507000	2535	23.05	24.50	1.396	0.08	0.939	1.311
	FR1 n7	50M	BPSK	1	1	DFT-15	Top Side	5mm	Ant 5	DSI 3	Full	507000	2535	23.05	24.50	1.396	-0.04	0.992	1.385
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	0mm	Ant 5	DSI 1	Reduced	507000	2535	18.03	19.50	1.403	0.05	1.250	1.754
	FR1 n7	50M	BPSK	135	68	DFT-15	Top Side	0mm	Ant 5	DSI 1	Reduced	507000	2535	18.03	19.50	1.403	-0.19	1.050	1.473
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	5mm	Ant 5	DSI 3	Full	507000	2535	22.81	24.50	1.476	0.06	1.070	1.579
	FR1 n7	50M	BPSK	135	68	DFT-15	Top Side	5mm	Ant 5	DSI 3	Full	507000	2535	22.81	24.50	1.476	0.01	1.110	1.638
86	FR1 n38	40M	BPSK	1	1	DFT-30	Back	0mm	Ant 2	DSI 1	Reduced	519000	2595	19.92	20.50	1.143	0.13	1.630	**1.863**
	FR1 n38	40M	BPSK	1	1	DFT-30	Bottom Side	0mm	Ant 2	DSI 1	Reduced	519000	2595	19.92	20.50	1.143	-0.13	1.210	1.383
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 3	Full	519000	2595	24.98	25.50	1.127	-0.04	0.325	0.366
	FR1 n38	40M	BPSK	1	1	DFT-30	Bottom Side	15mm	Ant 2	DSI 3	Full	519000	2595	24.98	25.50	1.127	0.02	0.278	0.313
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	0mm	Ant 2	DSI 1	Reduced	519000	2595	19.79	20.50	1.178	-0.08	1.580	1.861
	FR1 n38	40M	BPSK	50	28	DFT-30	Bottom Side	0mm	Ant 2	DSI 1	Reduced	519000	2595	19.79	20.50	1.178	0.06	1.170	1.378
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 2	DSI 3	Full	519000	2595	24.68	25.50	1.208	-0.02	0.328	0.396
	FR1 n38	40M	BPSK	50	28	DFT-30	Bottom Side	15mm	Ant 2	DSI 3	Full	519000	2595	24.68	25.50	1.208	0.02	0.295	0.356
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	0mm	Ant 3	DSI 1	Reduced	519000	2595	20.30	20.70	1.096	-0.18	1.220	1.338
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 3	DSI 1	Reduced	519000	2595	20.30	20.70	1.096	-0.04	0.923	1.012
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	5mm	Ant 3	DSI 3	Full	519000	2595	25.20	25.70	1.122	0.08	1.240	1.391
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 3	DSI 3	Full	519000	2595	25.20	25.70	1.122	0.04	0.899	1.009
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	0mm	Ant 3	DSI 1	Reduced	519000	2595	20.24	20.70	1.112	0.06	1.340	1.490
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	0mm	Ant 3	DSI 1	Reduced	519000	2595	20.24	20.70	1.112	0.03	0.947	1.053
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	5mm	Ant 3	DSI 3	Full	519000	2595	24.88	25.70	1.208	0.06	1.150	1.389
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	5mm	Ant 3	DSI 3	Full	519000	2595	24.88	25.70	1.208	0.02	0.852	1.029
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.68	19.50	1.208	-0.14	1.330	1.606
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.68	19.50	1.208	0.05	1.180	1.425
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.68	19.50	1.208	-0.01	0.906	1.094
	FR1 n38	40M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.68	19.50	1.208	0.02	1.162	1.403
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	5mm	Ant 5	DSI 3	Full	519000	2595	23.56	25.00	1.393	0.06	0.693	0.965
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI 3	Full	519000	2595	23.56	25.00	1.393	0.01	0.959	1.336
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 5	DSI 3	Full	519000	2595	23.56	25.00	1.393	-0.02	1.200	1.672
	FR1 n38	40M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 5	DSI 3	Full	519000	2595	23.56	25.00	1.393	0.04	0.851	1.186
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.62	19.50	1.225	-0.08	1.230	1.506
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.62	19.50	1.225	0.15	1.120	1.372
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.62	19.50	1.225	0.03	0.885	1.084
	FR1 n38	40M	BPSK	50	28	DFT-30	Top Side	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.62	19.50	1.225	-0.16	1.100	1.347
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 2	DSI 1	Reduced	518598	2592.99	19.53	20.00	1.114	-0.12	0.875	0.975
	FR1 n41	100M	BPSK	1	1	DFT-30	Bottom Side	0mm	Ant 2	DSI 1	Reduced	518598	2592.99	19.53	20.00	1.114	-0.05	0.830	0.925
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 3	Full	518598	2592.99	25.10	25.50	1.096	0.02	0.291	0.319
	FR1 n41	100M	BPSK	1	1	DFT-30	Bottom Side	15mm	Ant 2	DSI 3	Full	518598	2592.99	25.10	25.50	1.096	0.08	0.022	0.024
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 2	DSI 1	Reduced	518598	2592.99	19.52	20.00	1.117	-0.18	1.160	1.296
	FR1 n41	100M	BPSK	135	69	DFT-30	Bottom Side	0mm	Ant 2	DSI 1	Reduced	518598	2592.99	19.52	20.00	1.117	0.09	0.980	1.095

	FR1 n41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 3	Full	518598	2592.99	24.87	25.50	1.156	-0.05	0.358	0.414
	FR1 n41	100M	BPSK	135	69	DFT-30	Bottom Side	15mm	Ant 2	DSI 3	Full	518598	2592.99	24.87	25.50	1.156	0.04	0.019	0.022
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 3	DSI 1	Reduced	518598	2592.99	20.03	20.20	1.040	-0.18	1.280	1.331
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 3	DSI 1	Reduced	518598	2592.99	20.03	20.20	1.040	0.09	0.955	0.993
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 3	DSI 3	Reduced	518598	2592.99	24.18	24.70	1.127	0.06	1.360	1.533
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 3	DSI 3	Reduced	518598	2592.99	24.18	24.70	1.127	0.02	1.930	2.175
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 3	DSI 3	Reduced	509202	2546.01	24.15	24.70	1.135	-0.06	1.910	2.168
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 3	DSI 3	Reduced	528000	2640	24.13	24.70	1.140	0.03	1.900	2.166
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 3	DSI 1	Reduced	518598	2592.99	19.98	20.20	1.052	-0.14	1.340	1.410
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Side	0mm	Ant 3	DSI 1	Reduced	518598	2592.99	19.98	20.20	1.052	0.17	1.020	1.073
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 3	DSI 3	Reduced	518598	2592.99	24.15	24.70	1.135	0.08	1.450	1.646
87	FR1 n41	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 3	DSI 3	Reduced	518598	2592.99	24.15	24.70	1.135	0.02	2.020	**2.293**
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 3	DSI 3	Reduced	509202	2546.01	24.10	24.70	1.148	0.02	1.970	2.262
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 3	DSI 3	Reduced	528000	2640	24.12	24.70	1.143	0.11	1.920	2.194
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	0mm	Ant 5	DSI 1	Reduced	518598	2592.99	18.79	20.00	1.321	0.11	1.330	1.757
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 5	DSI 1	Reduced	518598	2592.99	18.79	20.00	1.321	-0.03	1.310	1.731
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 5	DSI 1	Reduced	518598	2592.99	18.79	20.00	1.321	-0.13	0.838	1.107
	FR1 n41	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 5	DSI 1	Reduced	518598	2592.99	18.79	20.00	1.321	0.18	1.260	1.665
	FR1 n41	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 5	DSI 3	Full	518598	2592.99	24.54	25.50	1.247	0.06	0.670	0.836
	FR1 n41	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI 3	Full	518598	2592.99	24.54	25.50	1.247	0.09	0.938	1.170
	FR1 n41	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 5	DSI 3	Full	518598	2592.99	24.54	25.50	1.247	0.07	1.530	1.908
	FR1 n41	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 5	DSI 3	Full	518598	2592.99	24.54	25.50	1.247	0.11	0.911	1.136
	FR1 n41	100M	BPSK	135	69	DFT-30	Front	0mm	Ant 5	DSI 1	Reduced	518598	2592.99	18.78	20.00	1.324	0.03	1.260	1.669
	FR1 n41	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 5	DSI 1	Reduced	518598	2592.99	18.78	20.00	1.324	0.18	1.190	1.576
	FR1 n41	100M	BPSK	135	69	DFT-30	Left Side	0mm	Ant 5	DSI 1	Reduced	518598	2592.99	18.78	20.00	1.324	-0.15	0.828	1.097
	FR1 n41	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 5	DSI 1	Reduced	518598	2592.99	18.78	20.00	1.324	-0.16	1.180	1.563
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	19.07	19.20	1.030	-0.09	1.160	1.195
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	19.07	19.20	1.030	-0.05	1.230	1.267
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 4	DSI 3	Full	633334	3500.01	23.26	23.70	1.107	-0.03	1.310	1.450
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 4	DSI 3	Full	633334	3500.01	23.26	23.70	1.107	0.02	1.070	1.184
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	19.03	19.20	1.040	0.19	1.170	1.217
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	19.03	19.20	1.040	0.07	1.250	1.300
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	DSI 3	Full	633334	3500.01	23.21	23.70	1.119	-0.05	1.460	1.634
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 4	DSI 3	Full	633334	3500.01	23.21	23.70	1.119	0.04	1.190	1.332
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	656000	3840	18.92	19.20	1.067	-0.16	1.290	1.376
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	656000	3840	18.92	19.20	1.067	0.16	1.540	1.643
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 4	DSI 3	Full	656000	3840	23.28	23.70	1.102	-0.04	1.120	1.234
	FR1 n77	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 4	DSI 3	Full	656000	3840	23.28	23.70	1.102	0.02	1.310	1.443
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	656000	3840	18.85	19.20	1.084	-0.15	1.330	1.442
88	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	656000	3840	18.85	19.20	1.084	0.15	1.770	**1.919**
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	DSI 3	Full	656000	3840	23.15	23.70	1.135	0.08	1.150	1.305
	FR1 n77	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 4	DSI 3	Full	656000	3840	23.15	23.70	1.135	-0.05	1.330	1.510
	FR1 n77	100M	BPSK	270	0	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	656000	3840	18.81	19.20	1.094	-0.02	1.620	1.772
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	15.47	16.20	1.183	-0.09	0.660	0.781
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	15.43	16.20	1.194	0.07	0.770	0.919
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI 3	Full	633334	3500.01	23.33	24.20	1.222	0.02	1.390	1.698
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI 3	Full	633334	3500.01	23.04	24.20	1.306	0.04	1.370	1.789
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	656000	3840	15.21	16.20	1.256	0.05	0.620	0.779
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	656000	3840	15.13	16.20	1.279	0.07	0.710	0.908
	FR1 n77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI 3	Full	656000	3840	23.29	24.20	1.233	0.06	0.870	1.073
	FR1 n77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI 3	Full	656000	3840	22.99	24.20	1.321	0.02	0.828	1.094
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	18.49	19.00	1.125	-0.19	1.050	1.181
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	18.49	19.00	1.125	0.03	1.080	1.215
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.82	24.50	1.169	0.06	1.420	1.661
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.82	24.50	1.169	0.02	1.530	1.789

	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	18.33	19.00	1.167	-0.1	1.020	1.190
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	18.33	19.00	1.167	0.09	1.120	1.307
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.70	24.50	1.202	0.08	1.470	1.767
89	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 4	DSI 3	Reduced	633334	3500.01	23.70	24.50	1.202	0.04	1.610	**1.936**
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	650000	3750	18.20	19.00	1.202	-0.05	0.850	1.022
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	650000	3750	18.20	19.00	1.202	-0.04	0.985	1.184
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 4	DSI 3	Reduced	650000	3750	23.78	24.50	1.180	0.03	1.090	1.287
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 4	DSI 3	Reduced	650000	3750	23.78	24.50	1.180	0.05	1.570	1.853
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	650000	3750	18.17	19.00	1.211	0.02	0.882	1.068
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	650000	3750	18.17	19.00	1.211	-0.16	1.030	1.247
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	DSI 3	Reduced	650000	3750	23.73	24.50	1.194	-0.03	1.150	1.373
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 4	DSI 3	Reduced	650000	3750	23.73	24.50	1.194	0.02	1.560	1.863
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	633334	3500.01	16.63	17.50	1.222	-0.08	1.040	1.271
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	633334	3500.01	16.56	17.50	1.242	0.01	1.020	1.266
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 6	DSI 3	Full	633334	3500.01	23.95	25.00	1.274	0.11	0.894	1.139
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 6	DSI 3	Full	633334	3500.01	23.68	25.00	1.355	0.02	1.020	1.382
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	650000	3750	16.54	17.50	1.247	0.12	1.210	1.509
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	650000	3750	16.48	17.50	1.265	0.08	1.470	1.859
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 6	DSI 3	Full	650000	3750	23.89	25.00	1.291	0.08	1.150	1.485
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 6	DSI 3	Full	650000	3750	23.66	25.00	1.361	0.04	1.190	1.620
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.36	17.50	1.300	-0.15	1.020	1.326
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.36	17.50	1.300	-0.05	0.279	0.363
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI 3	Full	633334	3500.01	23.79	25.00	1.321	0.06	1.210	1.599
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 8	DSI 3	Full	633334	3500.01	23.79	25.00	1.321	0.02	0.628	0.830
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.25	17.50	1.334	0.06	1.100	1.467
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.25	17.50	1.334	0.05	0.415	0.553
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI 3	Full	633334	3500.01	23.54	25.00	1.400	0.08	1.380	1.931
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 8	DSI 3	Full	633334	3500.01	23.54	25.00	1.400	0.04	0.637	0.892
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	650000	3750	16.23	17.50	1.340	0.12	1.010	1.353
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	650000	3750	16.20	17.50	1.349	0.1	1.080	1.457
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI 3	Full	650000	3750	23.69	25.00	1.352	0.05	1.140	1.541
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI 3	Full	650000	3750	23.53	25.00	1.403	0.18	1.050	1.473

<5G NR UL CA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Side	0mm	Ant 1	DSI 1/3	Reduced	167300	836.5	21.12	21.70	1.143	0.04	1.040	1.189
92	FR1 n5	20M	BPSK	50	28	DFT-15	Left Side	0mm	Ant 1	DSI 1/3	Reduced	167300	836.5	20.95	21.70	1.189	-0.18	1.027	**1.221**
	FR1 n7	50M	BPSK	1	1	DFT-15	Front	0mm	Ant 3	DSI 1	Reduced	507000	2535	20.20	21.20	1.259	0.19	0.920	1.158
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	0mm	Ant 3	DSI 1	Reduced	507000	2535	20.20	21.20	1.259	0.05	1.010	1.272
	FR1 n7	50M	BPSK	1	1	DFT-15	Left Side	0mm	Ant 3	DSI 1	Reduced	507000	2535	20.20	21.20	1.259	-0.13	0.830	1.045
	FR1 n7	50M	BPSK	135	68	DFT-15	Front	0mm	Ant 3	DSI 1	Reduced	507000	2535	20.12	21.20	1.282	-0.06	0.970	1.244
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	0mm	Ant 3	DSI 1	Reduced	507000	2535	20.12	21.20	1.282	-0.02	1.050	1.346
	FR1 n7	50M	BPSK	135	68	DFT-15	Left Side	0mm	Ant 3	DSI 1	Reduced	507000	2535	20.12	21.20	1.282	-0.05	0.850	1.090
	FR1 n7	50M	BPSK	1	1	DFT-15	Back	0mm	Ant 5	DSI 1	Reduced	507000	2535	18.20	19.50	1.349	0.09	1.210	1.632
	FR1 n7	50M	BPSK	1	1	DFT-15	Top Side	0mm	Ant 5	DSI 1	Reduced	507000	2535	18.20	19.50	1.349	0.1	0.952	1.284
	FR1 n7	50M	BPSK	135	68	DFT-15	Back	0mm	Ant 5	DSI 1	Reduced	507000	2535	18.03	19.50	1.403	0.02	1.250	1.754
	FR1 n7	50M	BPSK	135	68	DFT-15	Top Side	0mm	Ant 5	DSI 1	Reduced	507000	2535	18.03	19.50	1.403	-0.19	1.050	1.473
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	0mm	Ant 2	DSI 1	Reduced	519000	2595	19.92	20.50	1.143	0.13	1.630	1.863
	FR1 n38	40M	BPSK	1	1	DFT-30	Bottom Side	0mm	Ant 2	DSI 1	Reduced	519000	2595	19.92	20.50	1.143	-0.13	1.160	1.326
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	0mm	Ant 2	DSI 1	Reduced	519000	2595	19.79	20.50	1.178	-0.08	1.520	1.790
	FR1 n38	40M	BPSK	50	28	DFT-30	Bottom Side	0mm	Ant 2	DSI 1	Reduced	519000	2595	19.79	20.50	1.178	0.06	1.170	1.378
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	0mm	Ant 3	DSI 1	Reduced	519000	2595	20.30	20.70	1.096	-0.18	1.220	1.338
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 3	DSI 1	Reduced	519000	2595	20.30	20.70	1.096	-0.04	0.923	1.012
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	0mm	Ant 3	DSI 1	Reduced	519000	2595	20.24	20.70	1.112	0.06	1.340	1.490
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	0mm	Ant 3	DSI 1	Reduced	519000	2595	20.24	20.70	1.112	0.03	0.947	1.053
	FR1 n38	40M	BPSK	1	1	DFT-30	Front	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.68	19.50	1.208	-0.14	1.330	1.606
	FR1 n38	40M	BPSK	1	1	DFT-30	Back	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.68	19.50	1.208	0.05	1.180	1.425
	FR1 n38	40M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.68	19.50	1.208	-0.01	0.906	1.094
	FR1 n38	40M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.68	19.50	1.208	0.02	1.162	1.403
	FR1 n38	40M	BPSK	50	28	DFT-30	Front	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.62	19.50	1.225	-0.08	1.230	1.506
	FR1 n38	40M	BPSK	50	28	DFT-30	Back	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.62	19.50	1.225	0.15	1.125	1.378
	FR1 n38	40M	BPSK	50	28	DFT-30	Left Side	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.62	19.50	1.225	0.03	0.885	1.084
	FR1 n38	40M	BPSK	50	28	DFT-30	Top Side	0mm	Ant 5	DSI 1	Reduced	519000	2595	18.62	19.50	1.225	-0.16	1.150	1.408
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.49	18.00	1.125	0.09	0.591	0.665
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.49	18.00	1.125	-0.02	0.850	0.956
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.49	18.00	1.125	0.11	0.902	1.014
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.33	18.00	1.167	0.04	0.603	0.704
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.33	18.00	1.167	-0.09	0.912	1.064
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.33	18.00	1.167	0.01	1.020	1.190
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	650000	3750	17.20	18.00	1.202	-0.03	0.690	0.830
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	650000	3750	17.20	18.00	1.202	0.09	0.856	1.029
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	650000	3750	17.17	18.00	1.211	0.11	0.702	0.850
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	650000	3750	17.17	18.00	1.211	0.1	0.952	1.152
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	633334	3500.01	14.06	15.00	1.242	0.11	0.795	0.987
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	633334	3500.01	14.05	15.00	1.245	0.05	0.789	0.982
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	650000	3750	13.95	15.00	1.274	0.07	0.840	1.070
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	650000	3750	13.94	15.00	1.276	0.04	0.852	1.088
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.36	17.50	1.300	-0.15	1.020	1.326
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.36	17.50	1.300	-0.05	0.279	0.363
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.25	17.50	1.334	0.16	1.100	1.467
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.25	17.50	1.334	0.05	0.415	0.553
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	650000	3750	16.23	17.50	1.340	0.12	1.010	1.353
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	650000	3750	16.20	17.50	1.349	0.1	1.080	1.457

<EN-DC SAR>

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
93	LTE Band 5	10M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.22	22.20	1.253	0.02	1.680	**2.105**
	LTE Band 5	10M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	20450	829	21.09	22.20	1.291	0.04	1.190	1.537
	LTE Band 5	10M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	20600	844	20.76	22.20	1.393	0.11	0.892	1.243
	LTE Band 5	10M	QPSK	25	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.10	22.20	1.288	-0.02	1.560	2.010
	LTE Band 5	10M	QPSK	25	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	20450	829	21.04	22.20	1.306	0.03	0.955	1.247
	LTE Band 5	10M	QPSK	25	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	20600	844	20.88	22.20	1.355	0.05	0.604	0.819
	LTE Band 5	10M	QPSK	50	0	Left Side	0mm	Ant 1	DSI 1/3	Reduced	20525	836.5	21.08	22.20	1.294	0.11	1.480	1.915
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	0mm	Ant 3	DSI1	Reduced	21100	2535	18.88	20.00	1.294	-0.04	0.993	1.285
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	0mm	Ant 3	DSI1	Reduced	21100	2535	18.65	20.00	1.365	0.17	1.050	1.433
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	0mm	Ant 5	DSI1	Reduced	21100	2535	19.05	20.00	1.245	0.05	1.150	1.431
	LTE Band 7_Other PA	20M	QPSK	1	0	Top Side	0mm	Ant 5	DSI1	Reduced	21100	2535	19.05	20.00	1.245	-0.04	1.130	1.406
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	0mm	Ant 5	DSI1	Reduced	21100	2535	18.83	20.00	1.309	0.08	1.170	1.532
	LTE Band 7_Other PA	20M	QPSK	50	0	Top Side	0mm	Ant 5	DSI1	Reduced	21100	2535	18.83	20.00	1.309	0.01	1.150	1.506
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	21100	2535	19.66	20.00	1.081	0.11	0.853	0.922
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 1	Reduced	21100	2535	19.60	20.00	1.096	-0.13	1.130	1.239
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.22	20.20	1.253	0.1	0.953	1.194
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.22	20.20	1.253	-0.08	0.837	1.049
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.21	20.20	1.256	-0.08	0.937	1.177
	LTE Band 7	20M	QPSK	50	0	Left Side	0mm	Ant 3	DSI 1	Reduced	21100	2535	19.21	20.20	1.256	0.17	0.639	0.803
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 5	DSI 1	Reduced	21100	2535	19.57	20.50	1.239	-0.17	1.180	1.462
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 5	DSI 1	Reduced	21100	2535	19.46	20.50	1.271	0.12	0.931	1.183

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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)
	LTE Band 38	20M	QPSK	1	99	Back	0mm	Ant 3	DSI 1	Reduced	37850	2580	21.91	22.20	1.069	62.9	1.006	0.04	0.712	0.766
	LTE Band 38	20M	QPSK	1	99	Left Side	0mm	Ant 3	DSI 1	Reduced	37850	2580	21.91	22.20	1.069	62.9	1.006	0.17	0.869	0.935
	LTE Band 38	20M	QPSK	50	0	Back	0mm	Ant 3	DSI 1	Reduced	37850	2580	21.86	22.20	1.081	62.9	1.006	0.02	0.689	0.750
	LTE Band 38	20M	QPSK	50	0	Left Side	0mm	Ant 3	DSI 1	Reduced	37850	2580	21.86	22.20	1.081	62.9	1.006	-0.1	0.645	0.702

<5G NR NSA SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	FR1 n5	20M	BPSK	1	1	DFT-15	Left Side	0mm	Ant 1	DSI 1/3	Reduced	167300	836.5	21.12	21.70	1.143	0.04	1.040	1.189
	FR1 n5	20M	BPSK	50	28	DFT-15	Left Side	0mm	Ant 1	DSI 1/3	Reduced	167300	836.5	20.95	21.70	1.189	-0.18	1.027	1.221
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Left Side	0mm	Ant 3	DSI1	Reduced	507000	2535	19.54	20.50	1.247	0.03	1.276	1.592
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Left Side	0mm	Ant 3	DSI1	Reduced	507000	2535	19.52	20.50	1.253	-0.19	1.317	1.650
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Back	0mm	Ant 5	DSI 1	Reduced	507000	2535	19.60	20.50	1.230	0.19	1.510	1.858
	FR1 n7_Other PA	50M	BPSK	1	1	DFT-15	Top Side	0mm	Ant 5	DSI 1	Reduced	507000	2535	19.60	20.50	1.230	-0.11	1.440	1.772
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Back	0mm	Ant 5	DSI 1	Reduced	507000	2535	19.58	20.50	1.236	-0.12	1.470	1.817
	FR1 n7_Other PA	50M	BPSK	135	68	DFT-15	Top Side	0mm	Ant 5	DSI 1	Reduced	507000	2535	19.58	20.50	1.236	0.12	1.410	1.743
	FR1 n78	100M	BPSK	1	1	DFT-30	Front	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.49	18.00	1.125	0.09	0.591	0.665
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.49	18.00	1.125	-0.02	0.850	0.956
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.49	18.00	1.125	0.11	0.902	1.014
	FR1 n78	100M	BPSK	135	69	DFT-30	Front	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.33	18.00	1.167	0.04	0.603	0.704
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.33	18.00	1.167	-0.09	0.912	1.064
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	633334	3500.01	17.33	18.00	1.167	0.01	1.020	1.190
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	650000	3750	17.20	18.00	1.202	-0.03	0.690	0.830
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	650000	3750	17.20	18.00	1.202	0.09	0.856	1.029
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 1	Reduced	650000	3750	17.17	18.00	1.211	0.11	0.702	0.850
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 1	Reduced	650000	3750	17.17	18.00	1.211	0.1	0.952	1.152
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	633334	3500.01	14.06	15.00	1.242	0.11	0.795	0.987
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	633334	3500.01	14.05	15.00	1.245	0.05	0.789	0.982
	FR1 n78	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	650000	3750	13.95	15.00	1.274	0.07	0.840	1.070
	FR1 n78	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 6	DSI 1	Reduced	650000	3750	13.94	15.00	1.276	0.04	0.852	1.088
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.36	17.50	1.300	-0.15	1.020	1.326
	FR1 n78	100M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.36	17.50	1.300	-0.05	0.279	0.363
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.25	17.50	1.334	0.16	1.100	1.467
	FR1 n78	100M	BPSK	135	69	DFT-30	Left Side	0mm	Ant 8	DSI 1	Reduced	633334	3500.01	16.25	17.50	1.334	0.05	0.415	0.553
	FR1 n78	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	650000	3750	16.23	17.50	1.340	0.12	1.010	1.353
	FR1 n78	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 1	Reduced	650000	3750	16.20	17.50	1.349	0.1	1.080	1.457

<WLAN5G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 17	Full	60	5300	14.50	15.50	1.259	97	1.031	0.16	0.382	0.496
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 17	Full	60	5300	14.50	15.50	1.259	97	1.031	0.04	0.060	0.078
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 17	Full	60	5300	14.50	15.50	1.259	97	1.031	-0.18	0.118	0.153
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 17	Full	60	5300	14.50	15.50	1.259	97	1.031	0.14	0.360	0.467
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 18	Full	60	5300	14.10	15.00	1.230	97	1.031	-0.16	0.336	0.426
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 18	Full	60	5300	14.10	15.00	1.230	97	1.031	0.11	0.149	0.189
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 18	Full	60	5300	14.10	15.00	1.230	97	1.031	0.01	0.872	1.106
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 18	Full	60	5300	14.10	15.00	1.230	97	1.031	-	n/a	n/a
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 17+18	Full	60	5300	17.31	18.50	1.315	97	1.031	0.05	0.429	0.582
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 17+18	Full	60	5300	17.31	18.50	1.315	97	1.031	-0.07	0.169	0.229
90	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 17+18	Full	60	5300	17.31	18.50	1.315	97	1.031	0.01	0.877	**1.189**
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 17+18	Full	60	5300	17.31	18.50	1.315	97	1.031	-0.1	0.410	0.556
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 17	Full	100	5500	15.90	16.50	1.148	97	1.031	0.04	0.615	0.728
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 17	Full	100	5500	15.90	16.50	1.148	97	1.031	-0.17	0.109	0.129
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 17	Full	100	5500	15.90	16.50	1.148	97	1.031	-0.07	0.183	0.217
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 17	Full	100	5500	15.90	16.50	1.148	97	1.031	0.08	0.950	1.125
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 18	Full	100	5500	15.10	16.00	1.230	97	1.031	0.07	0.321	0.407
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 18	Full	100	5500	15.10	16.00	1.230	97	1.031	-0.16	0.166	0.211
91	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 18	Full	100	5500	15.10	16.00	1.230	97	1.031	0.05	1.160	**1.471**
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 18	Full	100	5500	15.10	16.00	1.230	97	1.031	0.19	0.030	0.038
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 17+18	Full	100	5500	18.53	19.00	1.114	97	1.031	-0.18	0.508	0.584
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 17+18	Full	100	5500	18.53	19.00	1.114	97	1.031	-0.09	0.167	0.192
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 17+18	Full	100	5500	18.53	19.00	1.114	97	1.031	-0.12	1.200	1.379
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 17+18	Full	100	5500	18.53	19.00	1.114	97	1.031	-0.02	0.799	0.918

15.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	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	LTE Band 17	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23800	711	21.67	22.20	1.130	-	1.000	0.01	0.972	1	1.098
2nd	LTE Band 17	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23800	711	21.67	22.20	1.130	-	1.000	0.07	0.965	1.007	1.090
1st	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20600	844	20.40	21.20	1.202	-	1.000	-0.05	0.892	1	1.072
2nd	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20600	844	20.40	21.20	1.202	-	1.000	0.08	0.881	1.012	1.059
1st	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	17.96	18.20	1.057	-	1.000	-0.13	0.872	1	0.922
2nd	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	17.96	18.20	1.057	-	1.000	0.11	0.861	1.013	0.910
1st	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.16	20.20	1.009	62.9	1.006	-0.03	0.933	1	0.947
2nd	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	37850	2580	20.16	20.20	1.009	62.9	1.006	0.11	0.912	1.023	0.926
1st	FR1 n77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.95	16.20	1.059	-	1.000	0.02	0.940	1	0.996
2nd	FR1 n77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.95	16.20	1.059	-	1.000	0.06	0.934	1.006	0.989

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 1	Reduced	1312	1712.4	21.09	22.00	1.233	-0.1	2.140	1	2.639
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 1	Reduced	1312	1712.4	21.09	22.00	1.233	0.08	2.020	1.059	2.491
1st	LTE Band 12	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23095	707.5	24.69	25.20	1.125	0.19	2.280	1	2.564
2nd	LTE Band 12	10M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 1/3	Reduced	23095	707.5	24.69	25.20	1.125	0.17	2.150	1.060	2.418
1st	LTE Band 26	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 1/3	Full	26865	831.5	25.09	25.70	1.151	-0.13	2.090	1	2.405
2nd	LTE Band 26	15M	QPSK	1	0	-	Left Side	0mm	Ant 1	DSI 1/3	Full	26865	831.5	25.09	25.70	1.151	0.05	1.980	1.056	2.279
1st	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	DSI 3	Full	21100	2535	24.62	25.70	1.282	-0.02	2.050	1	2.629
2nd	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	DSI 3	Full	21100	2535	24.62	25.70	1.282	-0.09	1.980	1.035	2.539

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/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.

16. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product Specific
1.	WWAN + 2.4GHz WLAN SISO/MIMO	Yes	Yes	Yes	Yes
2.	WWAN + 5GHz WLAN SISO/MIMO	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
4.	5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
5.	WWAN + 5GHz WLAN SISO/MIMO + Bluetooth	Yes	Yes	Yes	Yes
6.	2.4GHz WLAN SISO(Ant.18) + Bluetooth	Yes	Yes	Yes	Yes
7.	WWAN + 2.4GHz WLAN SISO(Ant.18) + Bluetooth	Yes	Yes	Yes	Yes

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands.
3. EN-DC SAR summed the standalone 5GNR SAR and LTE standalone SAR more conservatively.
4. EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
5. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment.
6. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
7. This device 2.4GHz WLAN/ 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
8. WLAN2.4GHz SISO (Ant.16) and Bluetooth share the same antenna, so can't transmit simultaneously.
9. According to the characteristic of EUT, WLAN5GHz and Bluetooth can transmit simultaneously.
10. According to the characteristic of EUT, WLAN2.4GHz SISO (Ant.18) and Bluetooth can transmit simultaneously.
11. For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
12. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
13. Chose the worst zoom scan SAR of WLAN correspondingly for co-located with WWAN analysis.
14. The reported SAR summation is calculated based on the same configuration and test position.
15. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
    i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
    ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
    iii) If SPLSR ≤ 0.04 for 1g SAR and SPLSR≤ 0.10 for 10g SAR , simultaneously transmission SAR measurement is not necessary.
    iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.

16.1 Head Exposure Conditions

WWAN Band	Exposure Position	1	3	4	5	6	7	8	9	1+3	1+4+9	1+5	1+6	1+7	1+8+9
		WWAN	2.4GHz WLAN Ant 16	2.4GHz WLAN Ant 18	2.4GHz WLAN Ant 16+18	5GHz WLAN Ant 17	5GHz WLAN Ant 18	5GHz WLAN Ant 16+18	Bluetooth Ant 16	Summed	Summed	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM850Ant 0	Right Cheek	0.207	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.524	0.641	0.650	0.604	0.525	0.670
	Right Tilted	0.116	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.433	0.550	0.559	0.513	0.434	0.579
	Left Cheek	0.298	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.615	0.732	0.741	0.619	0.616	0.743
	Left Tilted	0.106	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.416	0.250	0.481	0.503	0.260	0.569
GSM850Ant 1	Right Cheek	0.541	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.858	0.975	0.984	0.938	0.859	1.004
	Right Tilted	0.071	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.388	0.505	0.514	0.468	0.389	0.534
	Left Cheek	0.799	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.116	1.233	1.242	1.120	1.117	1.244
	Left Tilted	0.094	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.404	0.238	0.469	0.491	0.248	0.557
GSM1900Ant 2	Right Cheek	0.113	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.430	0.547	0.556	0.510	0.431	0.576
	Right Tilted	0.061	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.378	0.495	0.504	0.458	0.379	0.524
	Left Cheek	0.082	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.399	0.516	0.525	0.403	0.400	0.527
	Left Tilted	0.057	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.367	0.201	0.432	0.454	0.211	0.520
GSM1900Ant 5	Right Cheek	0.981	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.298	1.415	1.424	1.378	1.299	1.444
	Right Tilted	0.704	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.021	1.138	1.147	1.101	1.022	1.167
	Left Cheek	0.552	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.869	0.986	0.995	0.873	0.870	0.997
	Left Tilted	0.608	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.918	0.752	0.983	1.005	0.762	1.071
WCDMA VAnt 0	Right Cheek	0.258	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.575	0.692	0.701	0.655	0.576	0.721
	Right Tilted	0.147	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.464	0.581	0.590	0.544	0.465	0.610
	Left Cheek	0.225	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.542	0.659	0.668	0.546	0.543	0.670
	Left Tilted	0.105	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.415	0.249	0.480	0.502	0.259	0.568
WCDMA VAnt 1	Right Cheek	0.438	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.755	0.872	0.881	0.835	0.756	0.901
	Right Tilted	0.009	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.326	0.443	0.452	0.406	0.327	0.472
	Left Cheek	0.933	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.250	1.367	1.376	1.254	1.251	1.378
	Left Tilted	0.069	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.379	0.213	0.444	0.466	0.223	0.532
WCDMA IVAnt 2	Right Cheek	0.329	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.646	0.763	0.772	0.726	0.647	0.792
	Right Tilted	0.115	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.432	0.549	0.558	0.512	0.433	0.578
	Left Cheek	0.188	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.505	0.622	0.631	0.509	0.506	0.633
	Left Tilted	0.110	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.420	0.254	0.485	0.507	0.264	0.573
WCDMA IVAnt 5	Right Cheek	0.929	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.246	1.363	1.372	1.326	1.247	1.392
	Right Tilted	0.766	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.083	1.200	1.209	1.163	1.084	1.229
	Left Cheek	0.538	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.855	0.972	0.981	0.859	0.856	0.983
	Left Tilted	0.573	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.883	0.717	0.948	0.970	0.727	1.036
WCDMA IIAnt 2	Right Cheek	0.365	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.682	0.799	0.808	0.762	0.683	0.828
	Right Tilted	0.155	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.472	0.589	0.598	0.552	0.473	0.618
	Left Cheek	0.214	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.531	0.648	0.657	0.535	0.532	0.659
	Left Tilted	0.163	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.473	0.307	0.538	0.560	0.317	0.626
WCDMA IIAnt 5	Right Cheek	0.842	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.159	1.276	1.285	1.239	1.160	1.305
	Right Tilted	0.651	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.968	1.085	1.094	1.048	0.969	1.114
	Left Cheek	0.461	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.778	0.895	0.904	0.782	0.779	0.906
	Left Tilted	0.524	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.834	0.668	0.899	0.921	0.678	0.987
LTE Band 12Ant 0	Right Cheek	0.090	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.407	0.524	0.533	0.487	0.408	0.553
	Right Tilted	0.057	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.374	0.491	0.500	0.454	0.375	0.520
	Left Cheek	0.109	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.426	0.543	0.552	0.430	0.427	0.554
	Left Tilted	0.074	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.384	0.218	0.449	0.471	0.228	0.537
LTE Band 12Ant 1	Right Cheek	0.588	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.905	1.022	1.031	0.985	0.906	1.051
	Right Tilted	0.083	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.400	0.517	0.526	0.480	0.401	0.546
	Left Cheek	0.996	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.313	1.430	1.439	1.317	1.314	1.441

	Left Tilted	0.124	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.434	0.268	0.499	0.521	0.278	0.587
LTE Band 17Ant 0	Right Cheek	0.090	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.407	0.524	0.533	0.487	0.408	0.553
	Right Tilted	0.051	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.368	0.485	0.494	0.448	0.369	0.514
	Left Cheek	0.121	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.438	0.555	0.564	0.442	0.439	0.566
	Left Tilted	0.053	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.363	0.197	0.428	0.450	0.207	0.516
LTE Band 17Ant 1	Right Cheek	0.442	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.759	0.876	0.885	0.839	0.760	0.905
	Right Tilted	0.070	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.387	0.504	0.513	0.467	0.388	0.533
	Left Cheek	1.098	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.415	1.532	**1.541**	1.419	1.416	1.543
	Left Tilted	0.087	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.397	0.231	0.462	0.484	0.241	0.550
LTE Band 26Ant 0	Right Cheek	0.218	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.535	0.652	0.661	0.615	0.536	0.681
	Right Tilted	0.139	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.456	0.573	0.582	0.536	0.457	0.602
	Left Cheek	0.242	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.559	0.676	0.685	0.563	0.560	0.687
	Left Tilted	0.110	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.420	0.254	0.485	0.507	0.264	0.573
LTE Band 26Ant 1	Right Cheek	0.465	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.782	0.899	0.908	0.862	0.783	0.928
	Right Tilted	0.058	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.375	0.492	0.501	0.455	0.376	0.521
	Left Cheek	0.925	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.242	1.359	1.368	1.246	1.243	1.370
	Left Tilted	0.075	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.385	0.219	0.450	0.472	0.229	0.538
LTE Band 5Ant 0	Right Cheek	0.232	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.549	0.666	0.675	0.629	0.550	0.695
	Right Tilted	0.144	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.461	0.578	0.587	0.541	0.462	0.607
	Left Cheek	0.269	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.586	0.703	0.712	0.590	0.587	0.714
	Left Tilted	0.117	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.427	0.261	0.492	0.514	0.271	0.580
LTE Band 5Ant 1	Right Cheek	0.371	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.688	0.805	0.814	0.768	0.689	0.834
	Right Tilted	0.054	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.371	0.488	0.497	0.451	0.372	0.517
	Left Cheek	1.072	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.389	1.506	1.515	1.393	1.390	1.517
	Left Tilted	0.079	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.389	0.223	0.454	0.476	0.233	0.542
LTE Band 4Ant 0	Right Cheek	0.176	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.493	0.610	0.619	0.573	0.494	0.639
	Right Tilted	0.104	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.421	0.538	0.547	0.501	0.422	0.567
	Left Cheek	0.143	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.460	0.577	0.586	0.464	0.461	0.588
	Left Tilted	0.071	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.381	0.215	0.446	0.468	0.225	0.534
LTE Band 4Ant 2	Right Cheek	0.236	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.553	0.670	0.679	0.633	0.554	0.699
	Right Tilted	0.124	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.441	0.558	0.567	0.521	0.442	0.587
	Left Cheek	0.235	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.552	0.669	0.678	0.556	0.553	0.680
	Left Tilted	0.092	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.402	0.236	0.467	0.489	0.246	0.555
LTE Band 4Ant 3	Right Cheek	0.922	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.239	1.356	1.365	1.319	1.240	1.385
	Right Tilted	0.212	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.529	0.646	0.655	0.609	0.530	0.675
	Left Cheek	0.205	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.522	0.639	0.648	0.526	0.523	0.650
	Left Tilted	0.101	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.411	0.245	0.476	0.498	0.255	0.564
LTE Band 4Ant 5	Right Cheek	0.853	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.170	1.287	1.296	1.250	1.171	1.316
	Right Tilted	0.581	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.898	1.015	1.024	0.978	0.899	1.044
	Left Cheek	0.507	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.824	0.941	0.950	0.828	0.825	0.952
	Left Tilted	0.497	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.807	0.641	0.872	0.894	0.651	0.960
LTE Band 2Ant 2	Right Cheek	0.154	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.471	0.588	0.597	0.551	0.472	0.617
	Right Tilted	0.122	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.439	0.556	0.565	0.519	0.440	0.585
	Left Cheek	0.128	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.445	0.562	0.571	0.449	0.446	0.573
	Left Tilted	0.114	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.424	0.258	0.489	0.511	0.268	0.577
LTE Band 2Ant 3	Right Cheek	0.920	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.237	1.354	1.363	1.317	1.238	1.383
	Right Tilted	0.227	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.544	0.661	0.670	0.624	0.545	0.690
	Left Cheek	0.406	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.723	0.840	0.849	0.727	0.724	0.851
	Left Tilted	0.131	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.441	0.275	0.506	0.528	0.285	0.594
LTE Band 7Ant 0	Right Cheek	0.221	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.538	0.655	0.664	0.618	0.539	0.684
	Right Tilted	0.148	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.465	0.582	0.591	0.545	0.466	0.611
	Left Cheek	0.308	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.625	0.742	0.751	0.629	0.626	0.753
	Left Tilted	0.067	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.377	0.211	0.442	0.464	0.221	0.530
LTE Band 7Ant 2	Right Cheek	0.213	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.530	0.647	0.656	0.610	0.531	0.676
	Right Tilted	0.130	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.447	0.564	0.573	0.527	0.448	0.593

	Left Cheek	0.249	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.566	0.683	0.692	0.570	0.567	0.694
	Left Tilted	0.070	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.380	0.214	0.445	0.467	0.224	0.533
LTE Band 7Ant 3	Right Cheek	0.937	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.254	1.371	1.380	1.334	1.255	1.400
	Right Tilted	0.254	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.571	0.688	0.697	0.651	0.572	0.717
	Left Cheek	0.212	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.529	0.646	0.655	0.533	0.530	0.657
	Left Tilted	0.107	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.417	0.251	0.482	0.504	0.261	0.570
LTE Band 7Ant 5	Right Cheek	0.831	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.148	1.265	1.274	1.228	1.149	1.294
	Right Tilted	0.448	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.765	0.882	0.891	0.845	0.766	0.911
	Left Cheek	0.246	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.563	0.680	0.689	0.567	0.564	0.691
	Left Tilted	0.283	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.593	0.427	0.658	0.680	0.437	0.746
LTE Band 38Ant 0	Right Cheek	0.082	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.399	0.516	0.525	0.479	0.400	0.545
	Right Tilted		0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.317	0.434	0.443	0.397	0.318	0.463
	Left Cheek		0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.317	0.434	0.443	0.321	0.318	0.445
	Left Tilted		0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.310	0.144	0.375	0.397	0.154	0.463
LTE Band 38Ant 2	Right Cheek	0.143	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.460	0.577	0.586	0.540	0.461	0.606
	Right Tilted	0.065	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.382	0.499	0.508	0.462	0.383	0.528
	Left Cheek	0.239	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.556	0.673	0.682	0.560	0.557	0.684
	Left Tilted		0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.310	0.144	0.375	0.397	0.154	0.463
LTE Band 38Ant 3	Right Cheek	0.947	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.264	1.381	1.390	1.344	1.265	1.410
	Right Tilted	0.348	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.665	0.782	0.791	0.745	0.666	0.811
	Left Cheek	0.259	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.576	0.693	0.702	0.580	0.577	0.704
	Left Tilted	0.113	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.423	0.257	0.488	0.510	0.267	0.576
LTE Band 38Ant 5	Right Cheek	0.869	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.186	1.303	1.312	1.266	1.187	1.332
	Right Tilted	0.455	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.772	0.889	0.898	0.852	0.773	0.918
	Left Cheek	0.253	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.570	0.687	0.696	0.574	0.571	0.698
	Left Tilted	0.280	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.590	0.424	0.655	0.677	0.434	0.743
LTE Band 41Ant 0	Right Cheek	0.135	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.452	0.569	0.578	0.532	0.453	0.598
	Right Tilted	0.102	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.419	0.536	0.545	0.499	0.420	0.565
	Left Cheek	0.256	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.573	0.690	0.699	0.577	0.574	0.701
	Left Tilted	0.046	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.356	0.190	0.421	0.443	0.200	0.509
LTE Band 41Ant 2	Right Cheek	0.126	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.443	0.560	0.569	0.523	0.444	0.589
	Right Tilted	0.085	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.402	0.519	0.528	0.482	0.403	0.548
	Left Cheek	0.237	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.554	0.671	0.680	0.558	0.555	0.682
	Left Tilted	0.051	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.361	0.195	0.426	0.448	0.205	0.514
LTE Band 41Ant 3	Right Cheek	0.919	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.236	1.353	1.362	1.316	1.237	1.382
	Right Tilted	0.368	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.685	0.802	0.811	0.765	0.686	0.831
	Left Cheek	0.201	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.518	0.635	0.644	0.522	0.519	0.646
	Left Tilted	0.080	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.390	0.224	0.455	0.477	0.234	0.543
LTE Band 41Ant 5	Right Cheek	0.930	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.247	1.364	1.373	1.327	1.248	1.393
	Right Tilted	0.512	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.829	0.946	0.955	0.909	0.830	0.975
	Left Cheek	0.294	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.611	0.728	0.737	0.615	0.612	0.739
	Left Tilted	0.293	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.603	0.437	0.668	0.690	0.447	0.756
FR1 n5Ant 0	Right Cheek	0.243	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.560	0.677	0.686	0.640	0.561	0.706
	Right Tilted	0.156	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.473	0.590	0.599	0.553	0.474	0.619
	Left Cheek	0.285	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.602	0.719	0.728	0.606	0.603	0.730
	Left Tilted	0.134	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.444	0.278	0.509	0.531	0.288	0.597
FR1 n5Ant 1	Right Cheek	0.437	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.754	0.871	0.880	0.834	0.755	0.900
	Right Tilted	0.067	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.384	0.501	0.510	0.464	0.385	0.530
	Left Cheek	0.738	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.055	1.172	1.181	1.059	1.056	1.183
	Left Tilted	0.108	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.418	0.252	0.483	0.505	0.262	0.571
FR1 n7Ant 0	Right Cheek	0.398	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.715	0.832	0.841	0.795	0.716	0.861
	Right Tilted	0.093	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.410	0.527	0.536	0.490	0.411	0.556
	Left Cheek	0.180	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.497	0.614	0.623	0.501	0.498	0.625
	Left Tilted	0.084	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.394	0.228	0.459	0.481	0.238	0.547
FR1 n7Ant 2	Right Cheek	0.231	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.548	0.665	0.674	0.628	0.549	0.694

	Right Tilted	0.111	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.428	0.545	0.554	0.508	0.429	0.574
	Left Cheek	0.291	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.608	0.725	0.734	0.612	0.609	0.736
	Left Tilted	0.075	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.385	0.219	0.450	0.472	0.229	0.538
FR1 n7Ant 3	Right Cheek	0.713	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.030	1.147	1.156	1.110	1.031	1.176
	Right Tilted	0.215	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.532	0.649	0.658	0.612	0.533	0.678
	Left Cheek	0.240	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.557	0.674	0.683	0.561	0.558	0.685
	Left Tilted	0.115	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.425	0.259	0.490	0.512	0.269	0.578
FR1 n7Ant 5	Right Cheek	0.912	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.229	1.346	1.355	1.309	1.230	1.375
	Right Tilted	0.553	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.870	0.987	0.996	0.950	0.871	1.016
	Left Cheek	0.316	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.633	0.750	0.759	0.637	0.634	0.761
	Left Tilted	0.353	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.663	0.497	0.728	0.750	0.507	0.816
FR1 n38Ant 0	Right Cheek	0.175	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.492	0.609	0.618	0.572	0.493	0.638
	Right Tilted	0.050	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.367	0.484	0.493	0.447	0.368	0.513
	Left Cheek	0.083	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.400	0.517	0.526	0.404	0.401	0.528
	Left Tilted		0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.310	0.144	0.375	0.397	0.154	0.463
FR1 n38Ant 2	Right Cheek	0.234	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.551	0.668	0.677	0.631	0.552	0.697
	Right Tilted	0.126	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.443	0.560	0.569	0.523	0.444	0.589
	Left Cheek	0.387	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.704	0.821	0.830	0.708	0.705	0.832
	Left Tilted	0.120	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.430	0.264	0.495	0.517	0.274	0.583
FR1 n38Ant 3	Right Cheek	0.708	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.025	1.142	1.151	1.105	1.026	1.171
	Right Tilted	0.249	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.566	0.683	0.692	0.646	0.567	0.712
	Left Cheek	0.227	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.544	0.661	0.670	0.548	0.545	0.672
	Left Tilted	0.115	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.425	0.259	0.490	0.512	0.269	0.578
FR1 n38Ant 5	Right Cheek	0.971	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.288	1.405	1.414	1.368	1.289	1.434
	Right Tilted	0.494	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.811	0.928	0.937	0.891	0.812	0.957
	Left Cheek	0.317	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.634	0.751	0.760	0.638	0.635	0.762
	Left Tilted	0.340	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.650	0.484	0.715	0.737	0.494	0.803
FR1 n41Ant 0	Right Cheek	0.147	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.464	0.581	0.590	0.544	0.465	0.610
	Right Tilted	0.054	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.371	0.488	0.497	0.451	0.372	0.517
	Left Cheek	0.094	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.411	0.528	0.537	0.415	0.412	0.539
	Left Tilted	0.058	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.368	0.202	0.433	0.455	0.212	0.521
FR1 n41Ant 2	Right Cheek	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.569	0.686	0.695	0.649	0.570	0.715
	Right Tilted	0.139	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.456	0.573	0.582	0.536	0.457	0.602
	Left Cheek	0.429	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.746	0.863	0.872	0.750	0.747	0.874
	Left Tilted	0.132	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.442	0.276	0.507	0.529	0.286	0.595
FR1 n41Ant 3	Right Cheek	0.807	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.124	1.241	1.250	1.204	1.125	1.270
	Right Tilted	0.204	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.521	0.638	0.647	0.601	0.522	0.667
	Left Cheek	0.206	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.523	0.640	0.649	0.527	0.524	0.651
	Left Tilted	0.108	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.418	0.252	0.483	0.505	0.262	0.571
FR1 n41Ant 5	Right Cheek	0.816	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.133	1.250	1.259	1.213	1.134	1.279
	Right Tilted	0.562	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.879	0.996	1.005	0.959	0.880	1.025
	Left Cheek	0.354	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.671	0.788	0.797	0.675	0.672	0.799
	Left Tilted	0.362	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.672	0.506	0.737	0.759	0.516	0.825
FR1 n77Ant 4	Right Cheek	0.642	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.959	1.076	1.085	1.039	0.960	1.105
	Right Tilted	0.996	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.313	1.430	1.439	1.393	1.314	1.459
	Left Cheek	0.340	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.657	0.774	0.783	0.661	0.658	0.785
	Left Tilted	0.403	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.713	0.547	0.778	0.800	0.557	0.866
FR1 n77Ant 6	Right Cheek	0.468	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.785	0.902	0.911	0.865	0.786	0.931
	Right Tilted	0.540	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.857	0.974	0.983	0.937	0.858	1.003
	Left Cheek	0.596	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.913	1.030	1.039	0.917	0.914	1.041
	Left Tilted	1.092	0.310	0.046	0.375	0.397	0.154	0.365	0.098	1.402	1.236	1.467	1.489	1.246	1.555
FR1 n77Ant 7	Right Cheek	0.170	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.487	0.604	0.613	0.567	0.488	0.633
	Right Tilted	0.168	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.485	0.602	0.611	0.565	0.486	0.631
	Left Cheek	0.724	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.041	1.158	1.167	1.045	1.042	1.169
	Left Tilted	0.330	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.640	0.474	0.705	0.727	0.484	0.793

FR1 n77Ant 8	Right Cheek	0.579	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.896	1.013	1.022	0.976	0.897	1.042
	Right Tilted	0.349	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.666	0.783	0.792	0.746	0.667	0.812
	Left Cheek	0.230	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.547	0.664	0.673	0.551	0.548	0.675
	Left Tilted	0.302	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.612	0.446	0.677	0.699	0.456	0.765
FR1 n78Ant 4	Right Cheek	0.764	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.081	1.198	1.207	1.161	1.082	1.227
	Right Tilted	0.790	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.107	1.224	1.233	1.187	1.108	1.253
	Left Cheek	0.512	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.829	0.946	0.955	0.833	0.830	0.957
	Left Tilted	0.588	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.898	0.732	0.963	0.985	0.742	1.051
FR1 n78Ant 6	Right Cheek	0.737	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.054	1.171	1.180	1.134	1.055	1.200
	Right Tilted	0.740	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.057	1.174	1.183	1.137	1.058	1.203
	Left Cheek	0.743	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.060	1.177	1.186	1.064	1.061	1.188
	Left Tilted	0.842	0.310	0.046	0.375	0.397	0.154	0.365	0.098	1.152	0.986	1.217	1.239	0.996	1.305
FR1 n78Ant 7	Right Cheek	0.300	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.617	0.734	0.743	0.697	0.618	0.763
	Right Tilted	0.221	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.538	0.655	0.664	0.618	0.539	0.684
	Left Cheek	0.959	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.276	1.393	1.402	1.280	1.277	1.404
	Left Tilted	0.888	0.310	0.046	0.375	0.397	0.154	0.365	0.098	1.198	1.032	1.263	1.285	1.042	1.351
FR1 n78Ant 8	Right Cheek	0.619	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.936	1.053	1.062	1.016	0.937	1.082
	Right Tilted	0.336	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.653	0.770	0.779	0.733	0.654	0.799
	Left Cheek	0.222	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.539	0.656	0.665	0.543	0.540	0.667
	Left Tilted	0.307	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.617	0.451	0.682	0.704	0.461	0.770

<Inter-Band UL CA>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+2	1+2+3	1+2+4+9	1+2+5	1+2+6	1+2+7	1+2+8+9	1+2+9
			WWAN	FR1	2.4GHz WLAN Ant 6	2.4GHz WLAN Ant 18	2.4GHz WLAN Ant 16+18	5GHz WLAN Ant 17	5GHz WLAN Ant 18	5GHz WLAN Ant 17+18	Bluetooth Ant 16	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 4_Other PAAnt 0	LTE Band 7Ant 2	Right Cheek	0.133	0.213	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.346	0.663	0.780	0.789	0.743	0.664	0.809	0.444
		Right Tilted	0.107	0.130	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.237	0.554	0.671	0.680	0.634	0.555	0.700	0.335
		Left Cheek	0.143	0.249	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.392	0.709	0.826	0.835	0.713	0.710	0.837	0.490
		Left Tilted	0.076	0.070	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.146	0.456	0.290	0.521	0.543	0.300	0.609	0.244
LTE Band 4_Other PAAnt 0	LTE Band 7Ant 3	Right Cheek	0.133	0.516	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.649	0.966	1.083	1.092	1.046	0.967	1.112	0.747
		Right Tilted	0.107	0.174	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.281	0.598	0.715	0.724	0.678	0.599	0.744	0.379
		Left Cheek	0.143	0.148	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.291	0.608	0.725	0.734	0.612	0.609	0.736	0.389
		Left Tilted	0.076	0.079	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.155	0.465	0.299	0.530	0.552	0.309	0.618	0.253
LTE Band 4_Other PAAnt 5	LTE Band 7Ant 2	Right Cheek	0.479	0.213	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.692	1.009	1.126	1.135	1.089	1.010	1.155	0.790
		Right Tilted	0.424	0.130	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.554	0.871	0.988	0.997	0.951	0.872	1.017	0.652
		Left Cheek	0.262	0.249	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.511	0.828	0.945	0.954	0.832	0.829	0.956	0.609
		Left Tilted	0.289	0.070	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.359	0.669	0.503	0.734	0.756	0.513	0.822	0.457
LTE Band 4_Other PAAnt 5	LTE Band 7Ant 3	Right Cheek	0.479	0.516	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.995	1.312	1.429	1.438	1.392	1.313	1.458	1.093
		Right Tilted	0.424	0.174	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.598	0.915	1.032	1.041	0.995	0.916	1.061	0.696
		Left Cheek	0.262	0.148	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.410	0.727	0.844	0.853	0.731	0.728	0.855	0.508
		Left Tilted	0.289	0.079	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.368	0.678	0.512	0.743	0.765	0.522	0.831	0.466
LTE Band 4Ant 2	LTE Band 7_Other PAAnt 0	Right Cheek	0.236	0.319	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.555	0.872	0.989	0.998	0.952	0.873	1.018	0.653
		Right Tilted	0.124	0.072	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.196	0.513	0.630	0.639	0.593	0.514	0.659	0.294
		Left Cheek	0.235	0.141	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.376	0.693	0.810	0.819	0.697	0.694	0.821	0.474
		Left Tilted	0.092	0.053	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.145	0.455	0.289	0.520	0.542	0.299	0.608	0.243
LTE Band 4Ant 2	LTE Band 7_Other PAAnt 5	Right Cheek	0.236	0.538	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.774	1.091	1.208	1.217	1.171	1.092	1.237	0.872
		Right Tilted	0.124	0.339	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.463	0.780	0.897	0.906	0.860	0.781	0.926	0.561
		Left Cheek	0.235	0.179	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.414	0.731	0.848	0.857	0.735	0.732	0.859	0.512
		Left Tilted	0.092	0.209	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.301	0.611	0.445	0.676	0.698	0.455	0.764	0.399
LTE Band 4Ant 3	LTE Band 7_Other PAAnt 0	Right Cheek	0.480	0.319	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.799	1.116	1.233	1.242	1.196	1.117	1.262	0.897
		Right Tilted	0.167	0.072	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.239	0.556	0.673	0.682	0.636	0.557	0.702	0.337
		Left Cheek	0.134	0.141	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.275	0.592	0.709	0.718	0.596	0.593	0.720	0.373
		Left Tilted	0.066	0.053	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.119	0.429	0.263	0.494	0.516	0.273	0.582	0.217

LTE Band 4Ant 3	LTE Band 7_Other PAAnt 5	Right Cheek	0.480	0.538	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.018	1.335	1.452	1.461	1.415	1.336	1.481	1.116
		Right Tilted	0.167	0.339	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.506	0.823	0.940	0.949	0.903	0.824	0.969	0.604
		Left Cheek	0.134	0.179	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.313	0.630	0.747	0.756	0.634	0.631	0.758	0.411
		Left Tilted	0.066	0.209	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.275	0.585	0.419	0.650	0.672	0.429	0.738	0.373
FR1 n5Ant 0	FR1 n78Ant 4	Right Cheek	0.243	0.327	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.570	0.887	1.004	1.013	0.967	0.888	1.033	0.668
		Right Tilted	0.156	0.488	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.644	0.961	1.078	1.087	1.041	0.962	1.107	0.742
		Left Cheek	0.285	0.181	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.466	0.783	0.900	0.909	0.787	0.784	0.911	0.564
		Left Tilted	0.134	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.363	0.673	0.507	0.738	0.760	0.517	0.826	0.461
FR1 n5Ant 0	FR1 n78Ant 6	Right Cheek	0.243	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.495	0.812	0.929	0.938	0.892	0.813	0.958	0.593
		Right Tilted	0.156	0.322	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.478	0.795	0.912	0.921	0.875	0.796	0.941	0.576
		Left Cheek	0.285	0.302	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.587	0.904	1.021	1.030	0.908	0.905	1.032	0.685
		Left Tilted	0.134	0.495	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.629	0.939	0.773	1.004	1.026	0.783	1.092	0.727
FR1 n5Ant 0	FR1 n78Ant 7	Right Cheek	0.243	0.133	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.376	0.693	0.810	0.819	0.773	0.694	0.839	0.474
		Right Tilted	0.156	0.091	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.247	0.564	0.681	0.690	0.644	0.565	0.710	0.345
		Left Cheek	0.285	0.541	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.826	1.143	1.260	1.269	1.147	1.144	1.271	0.924
		Left Tilted	0.134	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.363	0.673	0.507	0.738	0.760	0.517	0.826	0.461
FR1 n5Ant 0	FR1 n78Ant 8	Right Cheek	0.243	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.779	1.096	1.213	1.222	1.176	1.097	1.242	0.877
		Right Tilted	0.156	0.369	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.525	0.842	0.959	0.968	0.922	0.843	0.988	0.623
		Left Cheek	0.285	0.243	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.528	0.845	0.962	0.971	0.849	0.846	0.973	0.626
		Left Tilted	0.134	0.341	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.475	0.785	0.619	0.850	0.872	0.629	0.938	0.573
FR1 n5Ant 1	FR1 n78Ant 4	Right Cheek	0.290	0.327	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.617	0.934	1.051	1.060	1.014	0.935	1.080	0.715
		Right Tilted		0.488	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.488	0.805	0.922	0.931	0.885	0.806	0.951	0.586
		Left Cheek	0.538	0.181	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.719	1.036	1.153	1.162	1.040	1.037	1.164	0.817
		Left Tilted	0.063	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.292	0.602	0.436	0.667	0.689	0.446	0.755	0.390
FR1 n5Ant 1	FR1 n78Ant 6	Right Cheek	0.290	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.542	0.859	0.976	0.985	0.939	0.860	1.005	0.640
		Right Tilted		0.322	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.322	0.639	0.756	0.765	0.719	0.640	0.785	0.420
		Left Cheek	0.538	0.302	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.840	1.157	1.274	1.283	1.161	1.158	1.285	0.938
		Left Tilted	0.063	0.495	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.558	0.868	0.702	0.933	0.955	0.712	1.021	0.656
FR1 n5Ant 1	FR1 n78Ant 7	Right Cheek	0.290	0.133	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.423	0.740	0.857	0.866	0.820	0.741	0.886	0.521
		Right Tilted		0.091	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.091	0.408	0.525	0.534	0.488	0.409	0.554	0.189
		Left Cheek	0.538	0.541	0.317	0.336	0.443	0.321	0.318	0.347	0.098	1.079	1.396	1.513	1.522	1.400	1.397	1.524	1.177
		Left Tilted	0.063	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.292	0.602	0.436	0.667	0.689	0.446	0.755	0.390
FR1 n5Ant 1	FR1 n78Ant 8	Right Cheek	0.290	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.826	1.143	1.260	1.269	1.223	1.144	1.289	0.924
		Right Tilted		0.369	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.369	0.686	0.803	0.812	0.766	0.687	0.832	0.467
		Left Cheek	0.538	0.243	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.781	1.098	1.215	1.224	1.102	1.099	1.226	0.879
		Left Tilted	0.063	0.341	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.404	0.714	0.548	0.779	0.801	0.558	0.867	0.502
FR1 n7Ant 0	FR1 n78Ant 4	Right Cheek	0.398	0.327	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.725	1.042	1.159	1.168	1.122	1.043	1.188	0.823
		Right Tilted	0.093	0.488	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.581	0.898	1.015	1.024	0.978	0.899	1.044	0.679
		Left Cheek	0.180	0.181	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.361	0.678	0.795	0.804	0.682	0.679	0.806	0.459
		Left Tilted	0.084	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.313	0.623	0.457	0.688	0.710	0.467	0.776	0.411
FR1 n7Ant 0	FR1 n78Ant 6	Right Cheek	0.398	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.650	0.967	1.084	1.093	1.047	0.968	1.113	0.748
		Right Tilted	0.093	0.322	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.415	0.732	0.849	0.858	0.812	0.733	0.878	0.513
		Left Cheek	0.180	0.302	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.482	0.799	0.916	0.925	0.803	0.800	0.927	0.580
		Left Tilted	0.084	0.495	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.579	0.889	0.723	0.954	0.976	0.733	1.042	0.677
FR1 n7Ant 0	FR1 n78Ant 7	Right Cheek	0.398	0.133	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.531	0.848	0.965	0.974	0.928	0.849	0.994	0.629
		Right Tilted	0.093	0.091	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.184	0.501	0.618	0.627	0.581	0.502	0.647	0.282
		Left Cheek	0.180	0.541	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.721	1.038	1.155	1.164	1.042	1.039	1.166	0.819
		Left Tilted	0.084	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.313	0.623	0.457	0.688	0.710	0.467	0.776	0.411
FR1 n7Ant 0	FR1 n78Ant 8	Right Cheek	0.398	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.934	1.251	1.368	1.377	1.331	1.252	1.397	1.032
		Right Tilted	0.093	0.369	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.462	0.779	0.896	0.905	0.859	0.780	0.925	0.560
		Left Cheek	0.180	0.243	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.423	0.740	0.857	0.866	0.744	0.741	0.868	0.521
		Left Tilted	0.084	0.341	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.425	0.735	0.569	0.800	0.822	0.579	0.888	0.523
FR1 n7Ant 2	FR1 n78Ant 4	Right Cheek	0.231	0.327	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.558	0.875	0.992	1.001	0.955	0.876	1.021	0.656
		Right Tilted	0.111	0.488	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.599	0.916	1.033	1.042	0.996	0.917	1.062	0.697
		Left Cheek	0.291	0.181	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.472	0.789	0.906	0.915	0.793	0.790	0.917	0.570
		Left Tilted	0.075	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.304	0.614	0.448	0.679	0.701	0.458	0.767	0.402

FR1 n7Ant 2	FR1 n78Ant 6	Right Cheek	0.231	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.483	0.800	0.917	0.926	0.880	0.801	0.946	0.581
		Right Tilted	0.111	0.322	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.433	0.750	0.867	0.876	0.830	0.751	0.896	0.531
		Left Cheek	0.291	0.302	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.593	0.910	1.027	1.036	0.914	0.911	1.038	0.691
		Left Tilted	0.075	0.495	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.570	0.880	0.714	0.945	0.967	0.724	1.033	0.668
FR1 n7Ant 2	FR1 n78Ant 7	Right Cheek	0.231	0.133	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.364	0.681	0.798	0.807	0.761	0.682	0.827	0.462
		Right Tilted	0.111	0.091	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.202	0.519	0.636	0.645	0.599	0.520	0.665	0.300
		Left Cheek	0.291	0.541	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.832	1.149	1.266	1.275	1.153	1.150	1.277	0.930
		Left Tilted	0.075	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.304	0.614	0.448	0.679	0.701	0.458	0.767	0.402
FR1 n7Ant 2	FR1 n78Ant 8	Right Cheek	0.231	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.767	1.084	1.201	1.210	1.164	1.085	1.230	0.865
		Right Tilted	0.111	0.369	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.480	0.797	0.914	0.923	0.877	0.798	0.943	0.578
		Left Cheek	0.291	0.243	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.534	0.851	0.968	0.977	0.855	0.852	0.979	0.632
		Left Tilted	0.075	0.341	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.416	0.726	0.560	0.791	0.813	0.570	0.879	0.514
FR1 n7Ant 3	FR1 n78Ant 4	Right Cheek	0.543	0.327	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.870	1.187	1.304	1.313	1.267	1.188	1.333	0.968
		Right Tilted	0.179	0.488	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.667	0.984	1.101	1.110	1.064	0.985	1.130	0.765
		Left Cheek	0.152	0.181	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.333	0.650	0.767	0.776	0.654	0.651	0.778	0.431
		Left Tilted	0.079	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.308	0.618	0.452	0.683	0.705	0.462	0.771	0.406
FR1 n7Ant 3	FR1 n78Ant 6	Right Cheek	0.543	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.795	1.112	1.229	1.238	1.192	1.113	1.258	0.893
		Right Tilted	0.179	0.322	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.501	0.818	0.935	0.944	0.898	0.819	0.964	0.599
		Left Cheek	0.231	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.767	1.084	1.201	1.210	1.164	1.085	1.230	0.865
		Left Tilted	0.079	0.495	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.574	0.884	0.718	0.949	0.971	0.728	1.037	0.672
FR1 n7Ant 3	FR1 n78Ant 7	Right Cheek	0.543	0.133	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.676	0.993	1.110	1.119	1.073	0.994	1.139	0.774
		Right Tilted	0.179	0.091	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.270	0.587	0.704	0.713	0.667	0.588	0.733	0.368
		Left Cheek	0.152	0.541	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.693	1.010	1.127	1.136	1.014	1.011	1.138	0.791
		Left Tilted	0.079	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.308	0.618	0.452	0.683	0.705	0.462	0.771	0.406
FR1 n7Ant 3	FR1 n78Ant 8	Right Cheek	0.543	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.079	1.396	1.513	1.522	1.476	1.397	1.542	1.177
		Right Tilted	0.179	0.369	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.548	0.865	0.982	0.991	0.945	0.866	1.011	0.646
		Left Cheek	0.152	0.243	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.395	0.712	0.829	0.838	0.716	0.713	0.840	0.493
		Left Tilted	0.079	0.341	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.420	0.730	0.564	0.795	0.817	0.574	0.883	0.518
FR1 n7Ant 5	FR1 n78Ant 4	Right Cheek	0.524	0.327	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.851	1.168	1.285	1.294	1.248	1.169	1.314	0.949
		Right Tilted	0.362	0.488	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.850	1.167	1.284	1.293	1.247	1.168	1.313	0.948
		Left Cheek	0.196	0.181	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.377	0.694	0.811	0.820	0.698	0.695	0.822	0.475
		Left Tilted	0.220	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.449	0.759	0.593	0.824	0.846	0.603	0.912	0.547
FR1 n7Ant 5	FR1 n78Ant 6	Right Cheek	0.524	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.776	1.093	1.210	1.219	1.173	1.094	1.239	0.874
		Right Tilted	0.362	0.322	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.684	1.001	1.118	1.127	1.081	1.002	1.147	0.782
		Left Cheek	0.196	0.302	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.498	0.815	0.932	0.941	0.819	0.816	0.943	0.596
		Left Tilted	0.220	0.495	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.715	1.025	0.859	1.090	1.112	0.869	1.178	0.813
FR1 n7Ant 5	FR1 n78Ant 7	Right Cheek	0.524	0.133	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.657	0.974	1.091	1.100	1.054	0.975	1.120	0.755
		Right Tilted	0.362	0.091	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.453	0.770	0.887	0.896	0.850	0.771	0.916	0.551
		Left Cheek	0.196	0.541	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.737	1.054	1.171	1.180	1.058	1.055	1.182	0.835
		Left Tilted	0.220	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.449	0.759	0.593	0.824	0.846	0.603	0.912	0.547

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+2	1+2+3	1+2+4+9	1+2+5	1+2+6	1+2+7	1+2+8+9	1+2+9
			WWAN	FR1	2.4GHz WLAN Ant 6	2.4GHz WLAN Ant 18	2.4GHz WLAN Ant 16+18	5GHz WLAN Ant 17	5GHz WLAN Ant 18	5GHz WLAN Ant 17+18	Bluetooth Ant 16	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n7Ant 5	FR1 n78Ant 8	Right Cheek	0.524	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.060	1.377	1.494	1.503	1.457	1.378	1.523	1.158
		Right Tilted	0.362	0.369	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.731	1.048	1.165	1.174	1.128	1.049	1.194	0.829
		Left Cheek	0.196	0.243	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.439	0.756	0.873	0.882	0.760	0.757	0.884	0.537
		Left Tilted	0.220	0.341	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.561	0.871	0.705	0.936	0.958	0.715	1.024	0.659
FR1 n38Ant 0	FR1 n78Ant 4	Right Cheek	0.175	0.327	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.502	0.819	0.936	0.945	0.899	0.820	0.965	0.600
		Right Tilted	0.050	0.488	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.538	0.855	0.972	0.981	0.935	0.856	1.001	0.636
		Left Cheek	0.083	0.181	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.264	0.581	0.698	0.707	0.585	0.582	0.709	0.362
		Left Tilted		0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.229	0.539	0.373	0.604	0.626	0.383	0.692	0.327
FR1 n38Ant 0	FR1 n78Ant 6	Right Cheek	0.175	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.427	0.744	0.861	0.870	0.824	0.745	0.890	0.525
		Right Tilted	0.050	0.322	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.372	0.689	0.806	0.815	0.769	0.690	0.835	0.470
		Left Cheek	0.083	0.302	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.385	0.702	0.819	0.828	0.706	0.703	0.830	0.483
		Left Tilted		0.495	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.495	0.805	0.639	0.870	0.892	0.649	0.958	0.593
FR1 n38Ant 0	FR1 n78Ant 7	Right Cheek	0.175	0.133	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.308	0.625	0.742	0.751	0.705	0.626	0.771	0.406
		Right Tilted	0.050	0.091	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.141	0.458	0.575	0.584	0.538	0.459	0.604	0.239
		Left Cheek	0.083	0.541	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.624	0.941	1.058	1.067	0.945	0.942	1.069	0.722
		Left Tilted		0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.229	0.539	0.373	0.604	0.626	0.383	0.692	0.327
FR1 n38Ant 0	FR1 n78Ant 8	Right Cheek	0.175	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.711	1.028	1.145	1.154	1.108	1.029	1.174	0.809
		Right Tilted	0.050	0.369	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.419	0.736	0.853	0.862	0.816	0.737	0.882	0.517
		Left Cheek	0.083	0.243	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.326	0.643	0.760	0.769	0.647	0.644	0.771	0.424
		Left Tilted		0.341	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.341	0.651	0.485	0.716	0.738	0.495	0.804	0.439
FR1 n38Ant 2	FR1 n78Ant 4	Right Cheek	0.234	0.327	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.561	0.878	0.995	1.004	0.958	0.879	1.024	0.659
		Right Tilted	0.126	0.488	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.614	0.931	1.048	1.057	1.011	0.932	1.077	0.712
		Left Cheek	0.387	0.181	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.568	0.885	1.002	1.011	0.889	0.886	1.013	0.666
		Left Tilted	0.120	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.349	0.659	0.493	0.724	0.746	0.503	0.812	0.447
FR1 n38Ant 2	FR1 n78Ant 6	Right Cheek	0.234	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.486	0.803	0.920	0.929	0.883	0.804	0.949	0.584
		Right Tilted	0.126	0.322	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.448	0.765	0.882	0.891	0.845	0.766	0.911	0.546
		Left Cheek	0.387	0.302	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.689	1.006	1.123	1.132	1.010	1.007	1.134	0.787
		Left Tilted	0.120	0.495	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.615	0.925	0.759	0.990	1.012	0.769	1.078	0.713
FR1 n38Ant 2	FR1 n78Ant 7	Right Cheek	0.234	0.133	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.367	0.684	0.801	0.810	0.764	0.685	0.830	0.465
		Right Tilted	0.126	0.091	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.217	0.534	0.651	0.660	0.614	0.535	0.680	0.315
		Left Cheek	0.387	0.541	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.928	1.245	1.362	1.371	1.249	1.246	1.373	1.026
		Left Tilted	0.120	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.349	0.659	0.493	0.724	0.746	0.503	0.812	0.447
FR1 n38Ant 2	FR1 n78Ant 8	Right Cheek	0.234	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.770	1.087	1.204	1.213	1.167	1.088	1.233	0.868
		Right Tilted	0.126	0.369	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.495	0.812	0.929	0.938	0.892	0.813	0.958	0.593
		Left Cheek	0.387	0.243	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.630	0.947	1.064	1.073	0.951	0.948	1.075	0.728
		Left Tilted	0.120	0.341	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.461	0.771	0.605	0.836	0.858	0.615	0.924	0.559
FR1 n38Ant 3	FR1 n78Ant 4	Right Cheek	0.482	0.327	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.809	1.126	1.243	1.252	1.206	1.127	1.272	0.907
		Right Tilted	0.165	0.488	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.653	0.970	1.087	1.096	1.050	0.971	1.116	0.751
		Left Cheek	0.168	0.181	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.349	0.666	0.783	0.792	0.670	0.667	0.794	0.447
		Left Tilted	0.073	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.302	0.612	0.446	0.677	0.699	0.456	0.765	0.400
FR1 n38Ant 3	FR1 n78Ant 6	Right Cheek	0.482	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.734	1.051	1.168	1.177	1.131	1.052	1.197	0.832
		Right Tilted	0.165	0.322	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.487	0.804	0.921	0.930	0.884	0.805	0.950	0.585
		Left Cheek	0.168	0.302	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.470	0.787	0.904	0.913	0.791	0.788	0.915	0.568
		Left Tilted	0.073	0.495	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.568	0.878	0.712	0.943	0.965	0.722	1.031	0.666
FR1 n38Ant 3	FR1 n78Ant 7	Right Cheek	0.482	0.133	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.615	0.932	1.049	1.058	1.012	0.933	1.078	0.713
		Right Tilted	0.165	0.091	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.256	0.573	0.690	0.699	0.653	0.574	0.719	0.354
		Left Cheek	0.168	0.541	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.709	1.026	1.143	1.152	1.030	1.027	1.154	0.807
		Left Tilted	0.073	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.302	0.612	0.446	0.677	0.699	0.456	0.765	0.400
FR1 n38Ant	FR1 n78Ant	Right Cheek	0.482	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.018	1.335	1.452	1.461	1.415	1.336	1.481	1.116
		Right Tilted	0.165	0.369	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.534	0.851	0.968	0.977	0.931	0.852	0.997	0.632

3	8	Left Cheek	0.168	0.243	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.411	0.728	0.845	0.854	0.732	0.729	0.856	0.509
		Left Tilted	0.073	0.341	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.414	0.724	0.558	0.789	0.811	0.568	0.877	0.512
FR1 n38Ant 5	FR1 n78Ant 4	Right Cheek	0.500	0.327	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.827	1.144	1.261	1.270	1.224	1.145	1.290	0.925
		Right Tilted	0.357	0.488	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.845	1.162	1.279	1.288	1.242	1.163	1.308	0.943
		Left Cheek	0.206	0.181	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.387	0.704	0.821	0.830	0.708	0.705	0.832	0.485
		Left Tilted	0.216	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.445	0.755	0.589	0.820	0.842	0.599	0.908	0.543
FR1 n38Ant 5	FR1 n78Ant 6	Right Cheek	0.500	0.252	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.752	1.069	1.186	1.195	1.149	1.070	1.215	0.850
		Right Tilted	0.357	0.322	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.679	0.996	1.113	1.122	1.076	0.997	1.142	0.777
		Left Cheek	0.206	0.302	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.508	0.825	0.942	0.951	0.829	0.826	0.953	0.606
		Left Tilted	0.216	0.495	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.711	1.021	0.855	1.086	1.108	0.865	1.174	0.809
FR1 n38Ant 5	FR1 n78Ant 7	Right Cheek	0.500	0.133	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.633	0.950	1.067	1.076	1.030	0.951	1.096	0.731
		Right Tilted	0.357	0.091	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.448	0.765	0.882	0.891	0.845	0.766	0.911	0.546
		Left Cheek	0.206	0.541	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.747	1.064	1.181	1.190	1.068	1.065	1.192	0.845
		Left Tilted	0.216	0.229	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.445	0.755	0.589	0.820	0.842	0.599	0.908	0.543
FR1 n38Ant 5	FR1 n78Ant 8	Right Cheek	0.500	0.536	0.317	0.336	0.443	0.397	0.318	0.365	0.098	1.036	1.353	1.470	1.479	1.433	1.354	1.499	1.134
		Right Tilted	0.357	0.369	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.726	1.043	1.160	1.169	1.123	1.044	1.189	0.824
		Left Cheek	0.206	0.243	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.449	0.766	0.883	0.892	0.770	0.767	0.894	0.547
		Left Tilted	0.216	0.341	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.557	0.867	0.701	0.932	0.954	0.711	1.020	0.655

<5G NR ENDC>

FR1 Band	WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+2	1+2+3	1+2+4+9	1+2+5	1+2+6	1+2+7	1+2+8+9	1+2+9
			FR1	WWAN	2.4GHz WLAN Ant 6	2.4GHz WLAN Ant 18	2.4GHz WLAN Ant 16+18	5GHz WLAN Ant 17	5GHz WLAN Ant 18	5GHz WLAN Ant 17+18	Bluetooth Ant 16	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n5Ant 0	LTE Band 7_Other PAAnt 2	Right Cheek	0.243	0.111	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.354	0.671	0.788	0.797	0.751	0.672	0.817	0.452
		Right Tilted	0.156	0.087	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.243	0.560	0.677	0.686	0.640	0.561	0.706	0.341
		Left Cheek	0.285	0.188	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.473	0.790	0.907	0.916	0.794	0.791	0.918	0.571
		Left Tilted	0.134	0.058	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.192	0.502	0.336	0.567	0.589	0.346	0.655	0.290
FR1 n5Ant 0	LTE Band 7_Other PAAnt 3	Right Cheek	0.243	0.542	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.785	1.102	1.219	1.228	1.182	1.103	1.248	0.883
		Right Tilted	0.156	0.107	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.263	0.580	0.697	0.706	0.660	0.581	0.726	0.361
		Left Cheek	0.285	0.105	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.390	0.707	0.824	0.833	0.711	0.708	0.835	0.488
		Left Tilted	0.134		0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.134	0.444	0.278	0.509	0.531	0.288	0.597	0.232
FR1 n5Ant 0	LTE Band 7_Other PAAnt 5	Right Cheek	0.243	0.538	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.781	1.098	1.215	1.224	1.178	1.099	1.244	0.879
		Right Tilted	0.156	0.339	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.495	0.812	0.929	0.938	0.892	0.813	0.958	0.593
		Left Cheek	0.285	0.179	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.464	0.781	0.898	0.907	0.785	0.782	0.909	0.562
		Left Tilted	0.134	0.209	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.343	0.653	0.487	0.718	0.740	0.497	0.806	0.441
FR1 n5Ant 1	LTE Band 7_Other PAAnt 0	Right Cheek	0.290	0.319	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.609	0.926	1.043	1.052	1.006	0.927	1.072	0.707
		Right Tilted		0.072	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.072	0.389	0.506	0.515	0.469	0.390	0.535	0.170
		Left Cheek	0.538	0.141	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.679	0.996	1.113	1.122	1.000	0.997	1.124	0.777
		Left Tilted	0.063	0.053	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.116	0.426	0.260	0.491	0.513	0.270	0.579	0.214
FR1 n5Ant 1	LTE Band 7_Other PAAnt 2	Right Cheek	0.290	0.111	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.401	0.718	0.835	0.844	0.798	0.719	0.864	0.499
		Right Tilted		0.087	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.087	0.404	0.521	0.530	0.484	0.405	0.550	0.185
		Left Cheek	0.538	0.188	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.726	1.043	1.160	1.169	1.047	1.044	1.171	0.824
		Left Tilted	0.063	0.058	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.121	0.431	0.265	0.496	0.518	0.275	0.584	0.219
FR1 n5Ant 1	LTE Band 7_Other PAAnt 3	Right Cheek	0.290	0.542	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.832	1.149	1.266	1.275	1.229	1.150	1.295	0.930
		Right Tilted		0.107	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.107	0.424	0.541	0.550	0.504	0.425	0.570	0.205
		Left Cheek	0.538	0.105	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.643	0.960	1.077	1.086	0.964	0.961	1.088	0.741
		Left Tilted	0.063		0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.063	0.373	0.207	0.438	0.460	0.217	0.526	0.161
FR1 n5Ant 1	LTE Band 7_Other PAAnt 5	Right Cheek	0.290	0.538	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.828	1.145	1.262	1.271	1.225	1.146	1.291	0.926
		Right Tilted		0.339	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.339	0.656	0.773	0.782	0.736	0.657	0.802	0.437
		Left Cheek	0.538	0.179	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.717	1.034	1.151	1.160	1.038	1.035	1.162	0.815
		Left Tilted	0.063	0.209	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.272	0.582	0.416	0.647	0.669	0.426	0.735	0.370
FR1 n7_Other PAAnt 0	LTE Band 5Ant 1	Right Cheek	0.356	0.187	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.543	0.860	0.977	0.986	0.940	0.861	1.006	0.641
		Right Tilted	0.109		0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.109	0.426	0.543	0.552	0.506	0.427	0.572	0.207
		Left Cheek	0.196	0.546	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.742	1.059	1.176	1.185	1.063	1.060	1.187	0.840
		Left Tilted	0.108		0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.108	0.418	0.252	0.483	0.505	0.262	0.571	0.206
FR1 n7_Other PAAnt 2	LTE Band 5Ant 0	Right Cheek	0.120	0.232	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.352	0.669	0.786	0.795	0.749	0.670	0.815	0.450
		Right Tilted	0.100	0.144	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.244	0.561	0.678	0.687	0.641	0.562	0.707	0.342
		Left Cheek	0.182	0.269	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.451	0.768	0.885	0.894	0.772	0.769	0.896	0.549
		Left Tilted	0.064	0.117	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.181	0.491	0.325	0.556	0.578	0.335	0.644	0.279
FR1 n7_Other PAAnt 2	LTE Band 5Ant 1	Right Cheek	0.120	0.187	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.307	0.624	0.741	0.750	0.704	0.625	0.770	0.405
		Right Tilted	0.100		0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.100	0.417	0.534	0.543	0.497	0.418	0.563	0.198
		Left Cheek	0.182	0.546	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.728	1.045	1.162	1.171	1.049	1.046	1.173	0.826
		Left Tilted	0.064		0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.064	0.374	0.208	0.439	0.461	0.218	0.527	0.162
FR1 n7_Other PAAnt 3	LTE Band 5Ant 0	Right Cheek	0.494	0.232	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.726	1.043	1.160	1.169	1.123	1.044	1.189	0.824
		Right Tilted	0.146	0.144	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.290	0.607	0.724	0.733	0.687	0.608	0.753	0.388
		Left Cheek	0.143	0.269	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.412	0.729	0.846	0.855	0.733	0.730	0.857	0.510
		Left Tilted	0.066	0.117	0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.183	0.493	0.327	0.558	0.580	0.337	0.646	0.281
FR1 n7_Other PAAnt 3	LTE Band 5Ant 1	Right Cheek	0.494	0.187	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.681	0.998	1.115	1.124	1.078	0.999	1.144	0.779
		Right Tilted	0.146		0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.146	0.463	0.580	0.589	0.543	0.464	0.609	0.244
		Left Cheek	0.143	0.546	0.317	0.336	0.443	0.321	0.318	0.347	0.098	0.689	1.006	1.123	1.132	1.010	1.007	1.134	0.787
		Left Tilted	0.066		0.310	0.046	0.375	0.397	0.154	0.365	0.098	0.066	0.376	0.210	0.441	0.463	0.220	0.529	0.164
FR1	LTE	Right Cheek	0.523	0.232	0.317	0.336	0.443	0.397	0.318	0.365	0.098	0.755	1.072	1.189	1.198	1.152	1.073	1.218	0.853