FCC SAR Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	XIAOMI
MODEL NAME	:	22071212AG
FCC ID	:	2AFZZ12AG
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.

Si Zhang

Approved by: Si Zhang

ACCREDITED Cert #5145.01

Sporton International Inc. (Shenzhen)
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People's Republic of China

Table of Contents

1. Statement of Compliance 4
2. Administration Data 6
3. Guidance Applied 6
4. Equipment Under Test (EUT) Information 7
4.1 General Information 7
4.2 General LTE SAR Test and Reporting Considerations 10
4.3 General 5G NR SAR Test and Reporting Considerations 12
5. Proximity Sensor Triggering Test 15
5.1 Proximity sensor triggering distances(Per KDB616217§6.2) 15
6. RF Exposure Limits 17
6.1 Uncontrolled Environment 17
6.2 Controlled Environment 17
7. Specific Absorption Rate (SAR) 18
7.1 Introduction 18
7.2 SAR Definition 18
8. System Description and Setup 19
8.1 E-Field Probe 20
8.2 Data Acquisition Electronics (DAE) 20
8.3 Phantom 21
8.4 Device Holder 22
9. Measurement Procedures 23
9.1 Spatial Peak SAR Evaluation 23
9.2 Power Reference Measurement 24
9.3 Area Scan 24
9.4 Zoom Scan 25
9.5 Volume Scan Procedures 25
9.6 Power Drift Monitoring 25
10. Test Equipment List 26
11. System Verification 27
11.1 Tissue Simulating Liquids 27
11.2 Tissue Verification 27
11.3 System Performance Check Results 29
12. RF Exposure Positions 31
12.1 Ear and handset reference point 31
12.2 Definition of the cheek position 32
12.3 Definition of the tilt position 33
12.4 Body Worn Accessory 34
12.5 Product Specific 10g SAR Exposure 35
12.6 Wireless Router 35
13. Conducted RF Output Power (Unit: dBm) 36
14. Antenna Location 53
15. SAR Test Results 54
15.1 Head SAR 57
15.2 Hotspot SAR 83
15.3 Body Worn Accessory SAR 111
15.4 Product Specific SAR 123
15.5 Repeated SAR Measurement 130
16. Simultaneous Transmission Analysis 131
16.1 Head Exposure Conditions 132
16.2 Hotspot Exposure Conditions 133
16.3 Body-Worn Accessory Exposure Conditions 134
16.4 Product specific 10g SAR Exposure Conditions 135
17. Uncertainty Assessment 136
18. References 137
Appendix A. Plots of System Performance Check
Appendix B. Plots of High SAR Measurement
Appendix C. DASY Calibration Certificate
Appendix D. Test Setup Photos
Appendix E. Conducted RF Output Power Table

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA250504	Rev. 01	Initial issue of report.	Jun. 20, 2022

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Xiaomi Communications Co., Ltd., Mobile Phone, 22071212AG,** 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	0.89	0.49	0.30	1.59
		GSM1900	0.96	0.64	0.64	
	WCDMA	Band V	0.73	0.54	0.30	
		Band IV	0.91	**1.09**	0.73	
		Band II	0.89	0.78	**1.09**	
	LTE	Band 12/ Band 17	0.97	0.39	0.33	
		Band 13	0.98	0.56	0.47	
		Band 26	**1.09**	0.61	0.37	
		Band 5	0.79	0.59	0.44	
		Band 4	**1.09**	0.96	0.63	
		Band 66	**1.09**	0.87	0.54	
		Band 2	0.90	1.08	0.55	
		Band 7	1.02	0.66	0.84	
		Band 38	0.94	0.50	0.40	
		Band 41	0.98	0.48	0.48	
	5G NR	n5	0.78	0.45	0.24	
		n66	1.05	0.60	0.74	
		n7	1.07	0.62	0.66	
		n38	0.97	0.72	0.55	
		n41	1.06	0.79	0.58	
		n77	1.04	0.49	**1.09**	
		n78	1.00	0.55	**1.09**	
DTS	WLAN	2.4GHz WLAN	1.05	0.26	0.27	1.59
NII		5GHz WLAN	1.02	0.29	0.48	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.50	0.17	0.06	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	WCDMA	Band IV	2.40	3.68
		Band II	2.37	
	LTE	Band 4	1.88	
		Band 66	1.70	
		Band 2	**2.57**	
		Band 7	1.97	
		Band 41	1.77	
	5G NR	n66	2.45	
		n7	1.38	
		n38	1.89	
		n41	2.09	
		n77	2.53	
		n78	2.56	
NII	WLAN	5GHz WLAN	1.70	3.68
Date of Testing:			2022/5/20 ~ 2022/6/14	

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.
	SAR04-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	XIAOMI
Model Name	22071212AG
FCC ID	2AFZZ12AG
IMEI Code	SIM1: 860232060084389 SIM2: 860232060084397
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 13: 777 MHz ~ 787 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 LTE Band 66: 1710 MHz ~ 1780 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 n66 : 1710 MHz ~ 1780 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 HE20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 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. 802.11n-HT40 is not supported in 2.4GHz WLAN.
2. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
3. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
4. 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).
5. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
6. This device has NFC operations, the NFC antenna is integrated into the device for this model, therefore, all SAR test were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the antenna can be found in the operational description. According to FCC KDB publication 447498 D01v06, transmitters are consider to be operating simultaneously when there is overlapping transmission, with the exception of transmission during network hand-offs with maximum hand-off duration less than 30 seconds.
7. 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.
8. There are two Samples. The difference between them is memory capacity: Sample 1 with 8+128G capacity and Sample 2 with 8+256G capacity. According to the difference, we chose Sample 1 to perform full test.
9. 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 (Default/Full Power; DSI 0: receiver on head power; DSI 1: P-Sensor on Body; DSI 4: hotspot on power; DSI 3: receiver off/ Sensor off).
10. For WLAN SAR testing was performed on dual antenna, due to the single antenna RF power in MIMO mode is larger than the single antenna RF power in SISO mode
11. For WLAN/BT when transmit simultaneous with WWAN, power reduction will be activated to head, body and extremity.
12. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
13. 5GNR n78 supports HPUE, HPUE power and SAR testing performed separately.
14. 5GNR n78 HUPE with higher power, 5GNR n78 HUPE SAR can represent power class 3 level SAR
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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, 25
			30	10, 15, 20, 25
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
			30	10, 15, 20, 25, 30, 40, 50
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
			30	10, 15, 20, 25, 30, 40
	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, 70, 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
SA	n5	FDD	15	5, 10, 15, 20, 25
			30	10, 15, 20, 25
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
			30	10, 15, 20, 25, 30, 40, 50
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
			30	10, 15, 20, 25, 30, 40
	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, 70, 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>2AFZZ12AG</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 13: 777 MHz ~ 787 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
LTE Band 66: 1710 MHz ~ 1780 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 13: 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
LTE Band 66:1.4MHz, 3MHz, 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 intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance.
2. This device supports maximum of 4 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 13

	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	23205	779.5	23230	782
M	23230	782		
H	23255	784.5		

LTE Band 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

LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770

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 n66 :1710 MHz ~ 1780 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	The detail please refers to section 4.1 5GNR FR1 bands table.
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 B7/66
LTE Anchor Bands for n66	LTE B2/5/7/12/66
LTE Anchor Bands for n38	LTE B66
LTE Anchor Bands for n41	LTE B41/66
LTE Anchor Bands for n77	LTE B41
LTE Anchor Bands for n78	LTE B2/5/7/38/41/66

NR Band 5 SCS15KHz										
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz	
	Ch. #	Freq. (MHz)	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	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839		

NR Band 5 SCS30KHz								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz	
	Ch. #	Freq. (MHz)	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	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 66 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	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	346000	1730
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352000	1760

NR Band 66 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	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	346000	1730
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352000	1760

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>

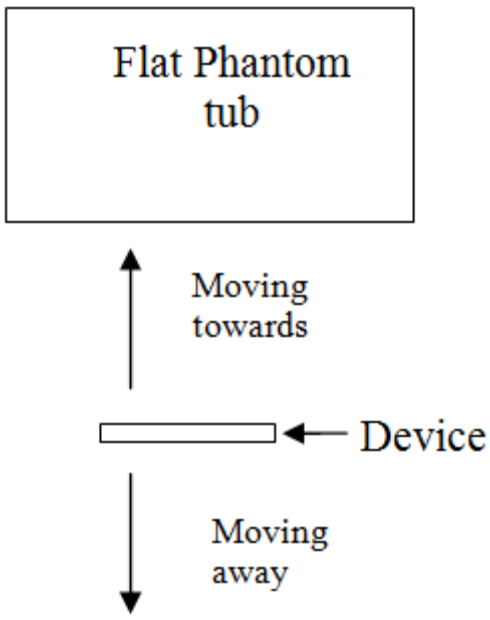
NR Band 77/78(3450MHz ~ 3550MHz)														
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	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		

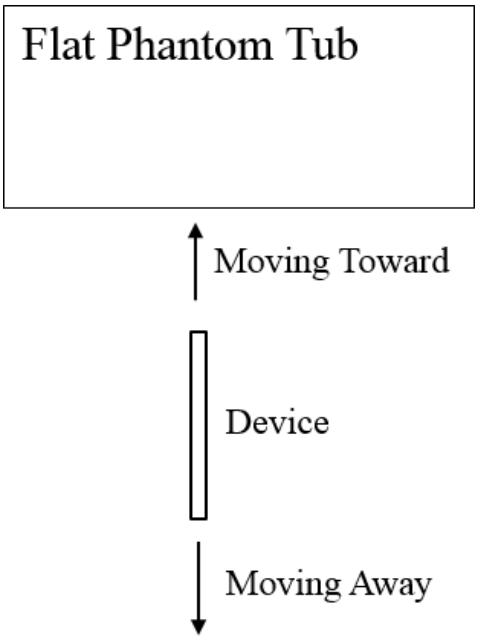
5. Proximity Sensor Triggering Test

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 Ant1/ Ant3/ Ant4 / Ant5 / Ant7 >

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:

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

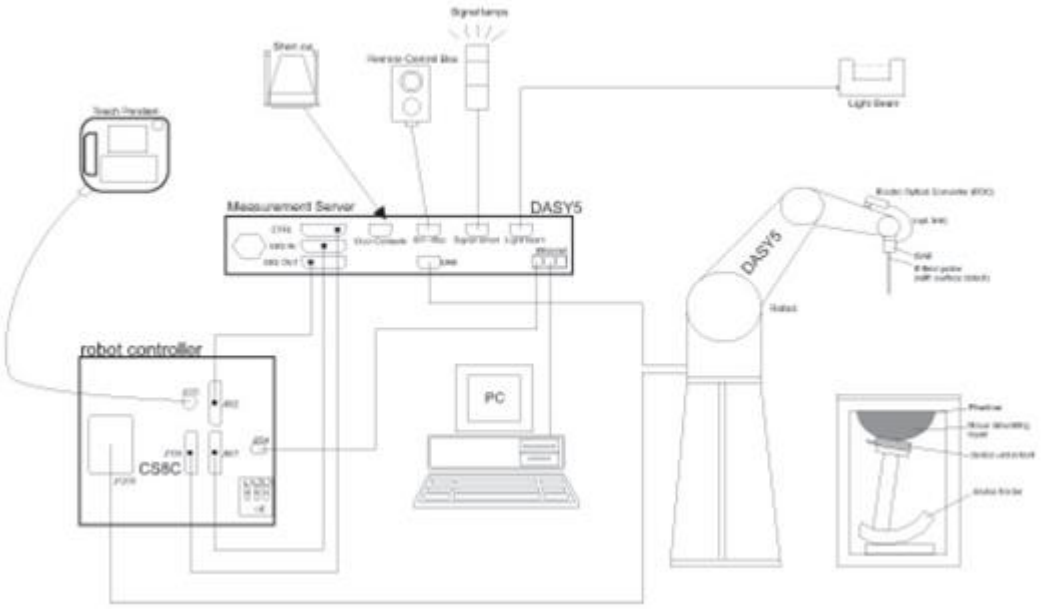
SAR is expressed in units of Watts per kilogram (W/kg)

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

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.

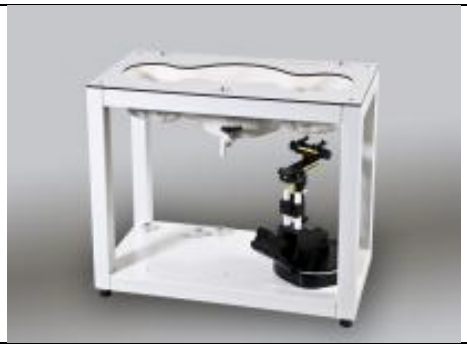
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Photo of DAE

8.3 Phantom

<SAM Twin Phantom>

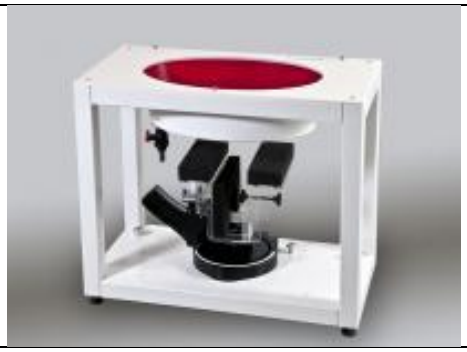
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



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	1099	Dec. 15, 2021	Dec. 14, 2022
SPEAG	835MHz System Validation Kit	D835V2	4d162	Dec. 17, 2021	Dec. 16, 2022
SPEAG	1750MHz System Validation Kit	D1750V2	1137	Oct. 19, 2021	Oct. 18, 2022
SPEAG	1900MHz System Validation Kit	D1900V2	5d182	Dec. 20, 2021	Dec. 19, 2022
SPEAG	2450MHz System Validation Kit	D2450V2	924	Sep. 02, 2020	Sep. 01, 2023
SPEAG	2600MHz System Validation Kit	D2600V2	1070	Dec. 20, 2021	Dec. 19, 2022
SPEAG	3500MHz System Validation Kit	D3500V2	1076	May. 09, 2022	May. 08, 2023
SPEAG	3700MHz System Validation Kit	D3700V2	1037	May. 09, 2022	May. 08, 2023
SPEAG	3900MHz System Validation Kit	D3900V2	1022	Jul. 11, 2019	Jul. 06, 2022
SPEAG	5000MHz System Validation Kit	D5GHzV2	1341	Dec. 13, 2021	Dec. 12, 2022
SPEAG	Data Acquisition Electronics	DAE4	1437	Oct. 26, 2021	Oct. 25, 2022
SPEAG	Dosimetric E-Field Probe	EX3DV4	7346	Mar. 30, 2022	Mar. 29, 2023
SPEAG	SAM Twin Phantom	QD 000 P41 AA	2035	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
Keysight	Network Analyzer	E5071C	MY46523671	Oct. 25, 2021	Oct. 24, 2022
Speag	Dielectric Assessment KIT	DAK-3.5	1071	Jan. 24, 2022	Jan. 23, 2023
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. 07, 2022	Apr. 06, 2023
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	2020062101	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.

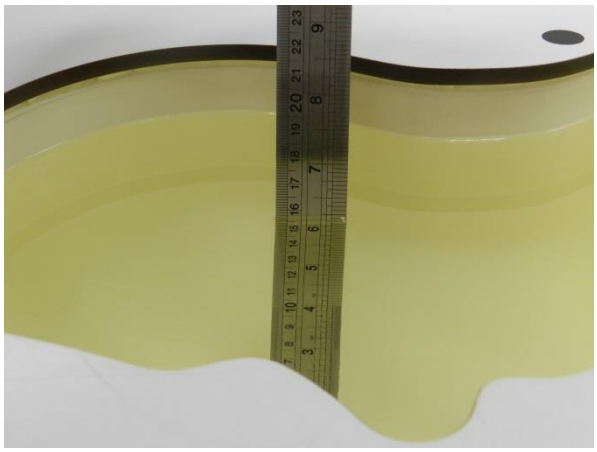


Fig 11.1 Photo of Liquid Height for Head SAR

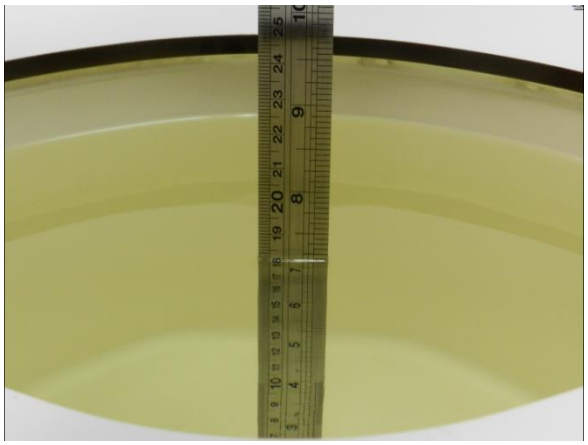


Fig 11.2 Photo of Liquid Height for Body SAR

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	22.4	0.879	40.957	0.89	41.90	-1.24	-2.25	±5	2022/5/20
750	Head	22.7	0.921	41.563	0.89	41.90	3.48	-0.80	±5	2022/6/1
835	Head	22.4	0.894	40.527	0.90	41.50	-0.67	-2.34	±5	2022/5/23
835	Head	22.6	0.925	42.207	0.90	41.50	2.78	1.70	±5	2022/6/3
835	Head	22.5	0.910	42.910	0.90	41.50	1.11	3.40	±5	2022/6/12
1750	Head	22.4	1.378	41.340	1.37	40.10	0.58	3.09	±5	2022/5/21
1750	Head	22.5	1.356	41.842	1.37	40.10	-1.02	4.34	±5	2022/6/4
1750	Head	22.4	1.379	40.838	1.37	40.10	0.66	1.84	±5	2022/6/10
1900	Head	22.5	1.421	38.990	1.40	40.00	1.50	-2.53	±5	2022/5/24
1900	Head	22.5	1.455	39.186	1.40	40.00	3.93	-2.04	±5	2022/6/5
1900	Head	22.6	1.460	40.597	1.40	40.00	4.29	1.49	±5	2022/6/11
2450	Head	22.7	1.821	39.682	1.80	39.20	1.17	1.23	±5	2022/5/28
2450	Head	22.7	1.809	39.716	1.80	39.20	0.50	1.32	±5	2022/6/7
2600	Head	22.5	2.039	37.491	1.96	39.00	4.03	-3.87	±5	2022/5/22
2600	Head	22.8	1.962	38.617	1.96	39.00	0.10	-0.98	±5	2022/6/9
2600	Head	22.4	1.915	39.536	1.96	39.00	-2.30	1.37	±5	2022/6/14
3500	Head	22.7	3.017	39.145	2.91	37.90	3.68	3.28	±5	2022/5/26
3500	Head	22.5	3.020	37.340	2.91	37.90	3.78	-1.48	±5	2022/6/10
3700	Head	22.4	2.967	39.530	3.12	37.70	-4.90	4.85	±5	2022/5/27
3700	Head	22.6	3.042	36.381	3.12	37.70	-2.50	-3.50	±5	2022/6/13
3900	Head	22.8	3.226	39.374	3.33	37.51	-3.12	4.97	±5	2022/5/28
3900	Head	22.4	3.356	36.377	3.33	37.51	0.78	-3.02	±5	2022/6/14
5250	Head	22.8	4.565	35.648	4.71	35.95	-3.08	-0.84	±5	2022/5/21
5250	Head	22.7	4.673	35.938	4.71	35.95	-0.79	-0.03	±5	2022/6/2
5600	Head	22.8	4.948	35.040	5.07	35.50	-2.41	-1.30	±5	2022/5/25
5600	Head	22.7	5.080	35.374	5.07	35.50	0.20	-0.35	±5	2022/6/5
5750	Head	22.5	5.100	34.774	5.22	35.35	-2.30	-1.63	±5	2022/5/23
5750	Head	22.5	5.250	35.137	5.22	35.35	0.57	-0.60	±5	2022/6/7

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 (%)
2022/5/20	750	Head	250	1099	7346	1437	2.180	8.54	8.72	2.11
2022/6/1	750	Head	250	1099	7346	1437	2.100	8.54	8.4	-1.64
2022/5/23	835	Head	250	4d162	7346	1437	2.290	9.64	9.16	-4.98
2022/6/3	835	Head	250	4d162	7346	1437	2.360	9.64	9.44	-2.07
2022/6/12	835	Head	250	4d162	7346	1437	2.410	9.64	9.64	0.00
2022/5/21	1750	Head	250	1137	7346	1437	9.130	36.50	36.52	0.05
2022/6/4	1750	Head	250	1137	7346	1437	8.520	36.50	34.08	-6.63
2022/6/10	1750	Head	250	1137	7346	1437	9.130	36.50	36.52	0.05
2022/5/24	1900	Head	250	5d182	7346	1437	9.860	39.60	39.44	-0.40
2022/6/5	1900	Head	250	5d182	7346	1437	10.100	39.60	40.4	2.02
2022/6/11	1900	Head	250	5d182	7346	1437	9.990	39.60	39.96	0.91
2022/5/28	2450	Head	250	924	7346	1437	11.900	51.40	47.6	-7.39
2022/6/7	2450	Head	250	924	7346	1437	12.300	51.40	49.2	-4.28
2022/5/22	2600	Head	250	1070	7346	1437	13.800	56.20	55.2	-1.78
2022/6/9	2600	Head	250	1070	7346	1437	13.300	56.20	53.2	-5.34
2022/6/14	2600	Head	250	1070	7346	1437	13.000	56.20	52	-7.47
2022/5/26	3500	Head	100	1076	7346	1437	6.290	66.20	62.9	-4.98
2022/6/10	3500	Head	100	1076	7346	1437	6.650	66.20	66.5	0.45
2022/5/27	3700	Head	100	1037	7346	1437	6.190	66.70	61.9	-7.20
2022/6/13	3700	Head	100	1037	7346	1437	6.350	66.70	63.5	-4.80
2022/5/28	3900	Head	100	1022	7346	1437	6.670	70.50	66.7	-5.39
2022/6/14	3900	Head	100	1022	7346	1437	6.560	70.50	65.6	-6.95
2022/5/21	5250	Head	100	1341	7346	1437	7.960	80.70	79.6	-1.36
2022/6/2	5250	Head	100	1341	7346	1437	8.150	80.70	81.5	0.99
2022/5/25	5600	Head	100	1341	7346	1437	8.090	84.50	80.9	-4.26
2022/6/5	5600	Head	100	1341	7346	1437	8.310	84.50	83.1	-1.66
2022/5/23	5750	Head	100	1341	7346	1437	7.770	80.60	77.7	-3.60
2022/6/7	5750	Head	100	1341	7346	1437	7.980	80.60	79.8	-0.99

<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 (%)
2022/5/20	750	Head	250	1099	7346	1437	1.390	5.65	5.56	-1.59
2022/6/1	750	Head	250	1099	7346	1437	1.370	5.65	5.48	-3.01
2022/5/23	835	Head	250	4d162	7346	1437	1.510	6.26	6.04	-3.51
2022/6/3	835	Head	250	4d162	7346	1437	1.560	6.26	6.24	-0.32
2022/6/12	835	Head	250	4d162	7346	1437	1.580	6.26	6.32	0.96
2022/5/21	1750	Head	250	1137	7346	1437	4.850	19.20	19.4	1.04
2022/6/4	1750	Head	250	1137	7346	1437	4.530	19.20	18.12	-5.62
2022/6/10	1750	Head	250	1137	7346	1437	4.850	19.20	19.4	1.04
2022/5/24	1900	Head	250	5d182	7346	1437	5.000	20.20	20	-0.99
2022/6/5	1900	Head	250	5d182	7346	1437	5.120	20.20	20.48	1.39
2022/6/11	1900	Head	250	5d182	7346	1437	5.170	20.20	20.68	2.38
2022/5/28	2450	Head	250	924	7346	1437	6.350	24.00	25.4	5.83
2022/6/7	2450	Head	250	924	7346	1437	5.600	24.00	22.4	-6.67
2022/5/22	2600	Head	250	1070	7346	1437	5.970	24.60	23.88	-2.93
2022/6/9	2600	Head	250	1070	7346	1437	5.750	24.60	23	-6.50
2022/6/14	2600	Head	250	1070	7346	1437	5.630	24.60	22.52	-8.46
2022/5/26	3500	Head	100	1076	7346	1437	2.510	25.50	25.1	-1.57
2022/6/10	3500	Head	100	1076	7346	1437	2.420	25.50	24.2	-5.10
2022/5/27	3700	Head	100	1037	7346	1437	2.250	24.60	22.5	-8.54
2022/6/13	3700	Head	100	1037	7346	1437	2.310	24.60	23.1	-6.10
2022/5/28	3900	Head	100	1022	7346	1437	2.320	24.60	23.2	-5.69
2022/6/14	3900	Head	100	1022	7346	1437	2.310	24.60	23.1	-6.10
2022/5/21	5250	Head	100	1341	7346	1437	2.180	23.10	21.8	-5.63
2022/6/2	5250	Head	100	1341	7346	1437	2.240	23.10	22.4	-3.03
2022/5/25	5600	Head	100	1341	7346	1437	2.190	24.00	21.9	-8.75
2022/6/5	5600	Head	100	1341	7346	1437	2.250	24.00	22.5	-6.25
2022/5/23	5750	Head	100	1341	7346	1437	2.220	22.70	22.2	-2.20
2022/6/7	5750	Head	100	1341	7346	1437	2.340	22.70	23.4	3.08

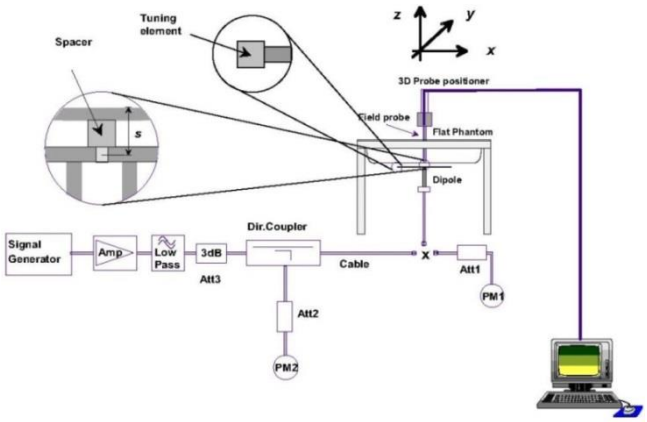


Fig 11.3.1 System Performance Check Setup

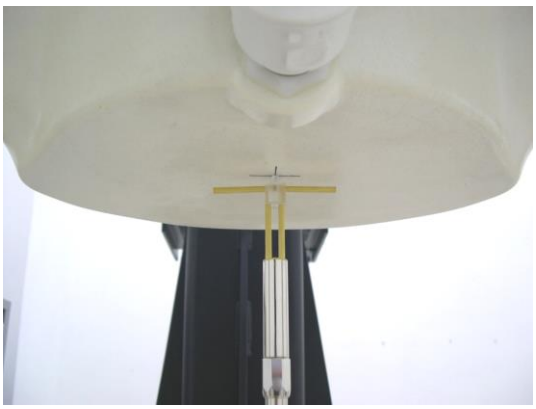


Fig 11.3.2 Setup Photo

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.

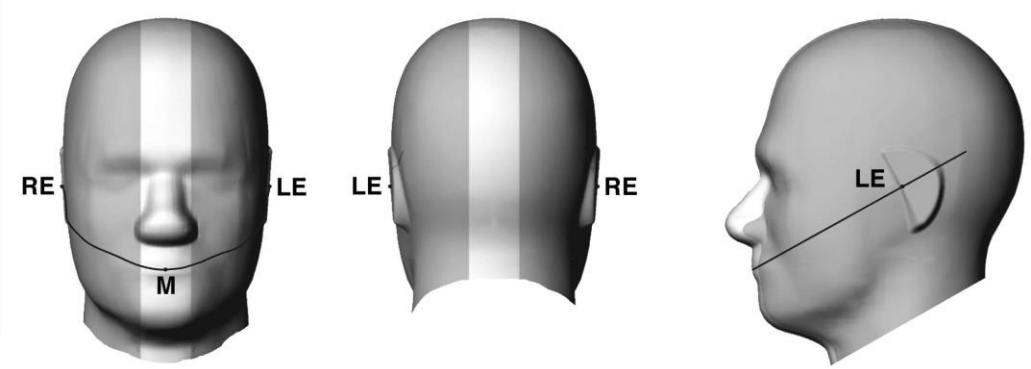


Fig 12.1.1 Front, back, and side views of SAM twin phantom

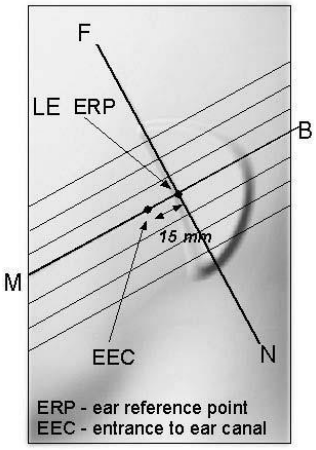


Fig 12.1.2 Close-up side view of phantom showing the ear region.

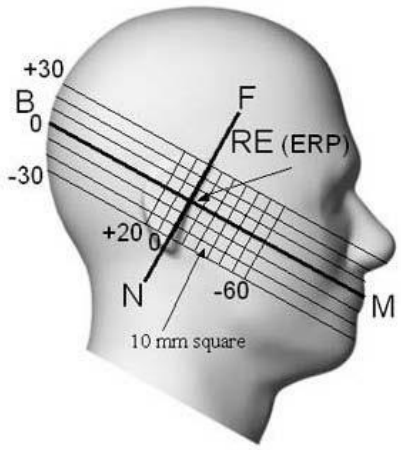


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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.

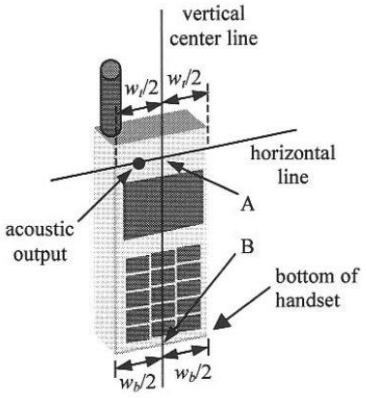


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

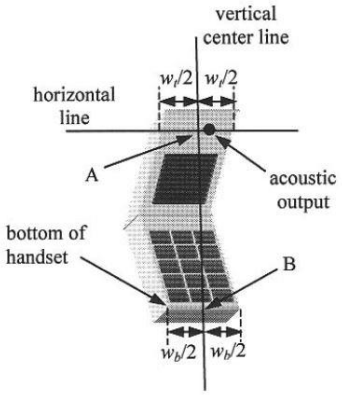


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

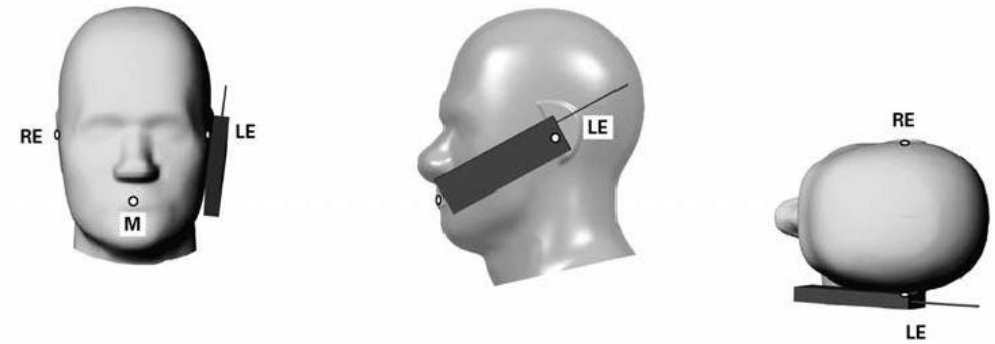


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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

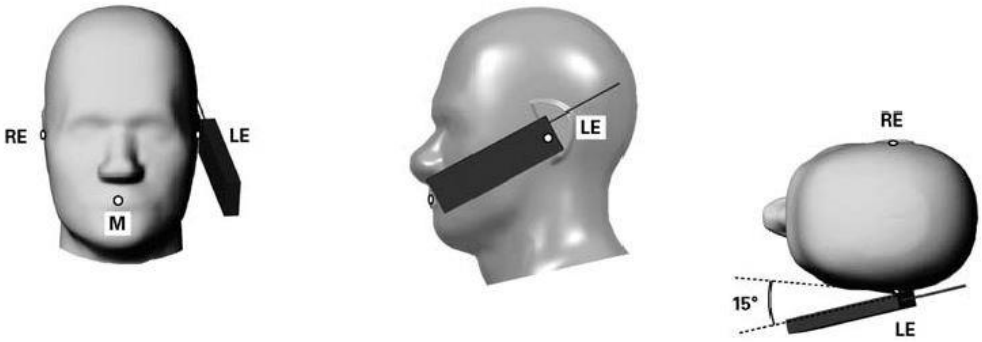


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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.

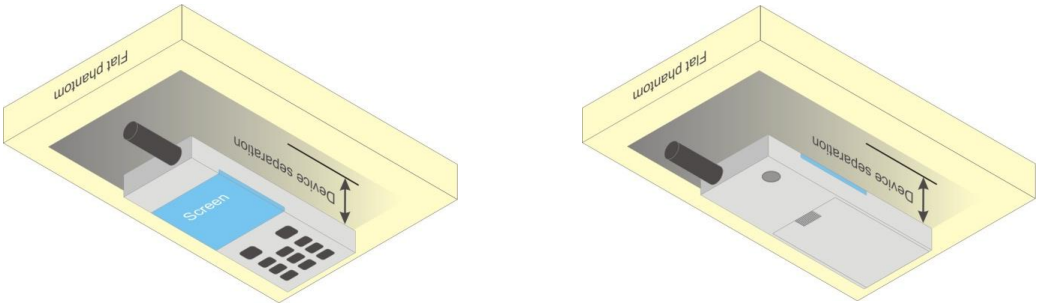


Fig 12.4 Body Worn Position

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.		

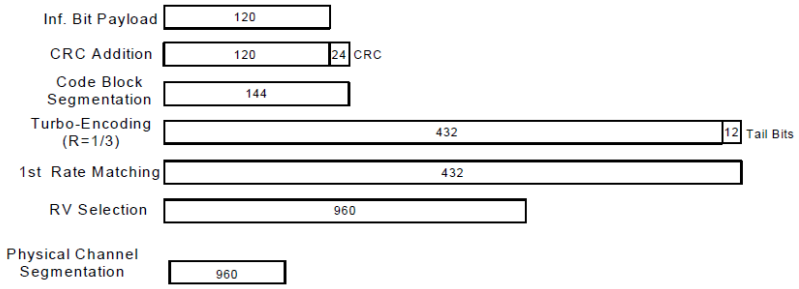


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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 $\beta_{hs} = 30/15 * \beta_c$.
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>

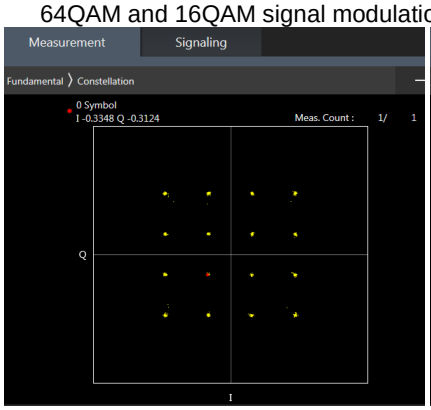
General Note:

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+.

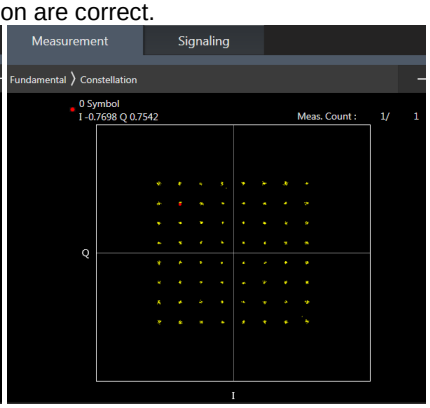
<LTE Conducted Power>

General Note:

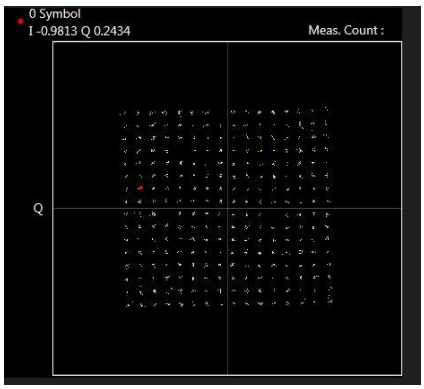
1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested 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. LTE band 17 SAR test was covered by Band 12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
   a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
   b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to 2017 TCB workshop, for 16QAM and 64QAM, 256QAM 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 256QAM, 64QAM and 16QAM signal modulation are correct.



16QAM



64QAM



256QAM

<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.

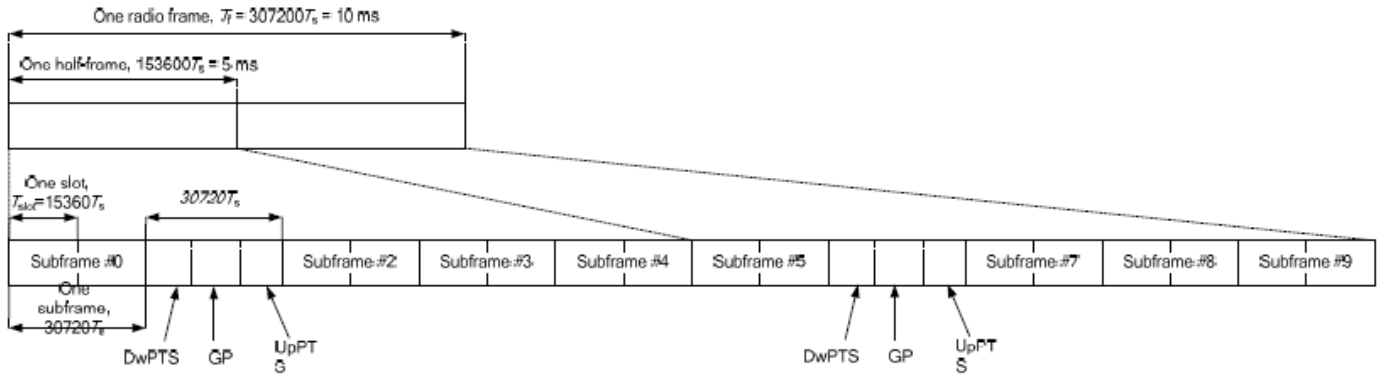


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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				4CC Downlink Carrier Aggregation			
Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset
1	CA_12A-66A	66A		1	CA_2A-4A-5A			1	CA_2A-4A-7C		
2	CA_2A-4A		1-3CC	2	CA_2A-4A-7A		1-4CC				
3	CA_2A-5A		1-3CC	3	CA_2A-7A-7A		1-4CC				
4	CA_2A-66A	66A		4	CA_5A-7A-7A	7A-7A					
5	CA_2A-7A		3-3CC	5	CA_7A-66A-66A	7A,66A-66A					
6	CA_41A-41A	41A-41A	10-3CC	6	CA_5A-7A-66A	7A,66A					
7	CA_4A-12A	4A		7	CA_5A-66A-66A	66A-66A					
8	CA_4A-17A	4A		8	CA_12A-66A-66A	66A-66A					
9	CA_4A-5A	4A	11-3CC	9	CA_41A-41A-41A	41A-41A-41A					
10	CA_4A-7A	4A-7A	11-3CC	10	CA_4A-5A-7A	4A-7A					
11	CA_5A-41A	41A		11	CA_2A-7C	7C	1-4CC				
12	CA_5A-7A	7A	6-3CC	12	CA_5A-7C	7C					
13	CA_66A-66A	66A-66A	5-3CC	13	CA_41A-41C	41A-41C					
14	CA_7A-7A		3-3CC	14	CA_4A-7C	4A-7C	1-4CC				
15	CA_2A-12A										
16	CA_2A-17A										
17	CA_7A-26A	7A									
18	CA_7A-66A	7A,66A	5-3CC								
19	CA_5A-66A	66A	7-3CC								
20	CA_2C										
21	CA_7C	7C									
22	CA_38C	38C									
23	CA_41C	41C									
24	CA_66B	66B									
25	CA_66C	66C									

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 four 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 / 66 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 / B66

LTE Carrier Aggregation Conducted Power (Uplink)

<Intra-band>

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

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	CA_4A-7A	Band 4:ANT2/3, Band 7: ANT0/1

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, n38, n66, n41, n77, n78 supports NSA and SA mode.
2. 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
3. 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.
4. 5GNR n78 supports HPUE, HPUE power and SAR testing performed separately.
5. 5GNR n78 HUPE with higher power, 5GNR n78 HUPE SAR can represent power class 3 level SAR
6. 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.
7. 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.
8. 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.
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.
10. 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.
11. For Inter-band NR CA co-located SAR analysis is performed using standalone SAR summed together and they are more conservatively for inter band NR CA.

<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	LTE TX	NR TX
n5	DC_7A_n5A	Ant 0/1/2/3	Ant 0/1
n7	DC_7A_n7A	Ant 2/3	Ant 0/1
	DC_66A_n7A	Ant 0/1	Ant 2/3
n41	DC_41A_n41A	Ant 2/3	Ant 0/1
	DC_66A_n41A	Ant 0/1	Ant 2/3
n38	DC_66A_n38A	Ant 0/1	Ant 2/3
n66	DC_12A_n66A	Ant 0/1	Ant 0/1/2/3
	DC_2A_n66A	Ant 2/3	Ant 0/1
	DC_5A_n66A	Ant 0/1	Ant 0/1/2/3
	DC_66A_n66A	Ant 2/3	Ant 0/1
	DC_7A_n66A	Ant 0/1	Ant 2/3
n77	DC_41A_n77A	Ant 0/1/2/3	Ant 4/5/6/7
n78	DC_2A_n78A	Ant 2/3	Ant 4/5/6/7
	DC_5A_n78A	Ant 0/1	Ant 4/5/6/7
	DC_7A_n78A	Ant 0/1/2/3	Ant 4/5/6/7
	DC_38A_n78A	Ant 0/1/2/3	Ant 4/5/6/7
	DC_41A_n78A	Ant 0/1/2/3	Ant 4/5/6/7
	DC_66A_n78A	Ant 0/1/2/3	Ant 4/5/6/7

Inter-Band CA Configuration:

Band	NR TX
CA_n5A-n78A	n5:ANT0/1
	n78: ANT6/4/5/7
CA_n38A-n78A	n38:ANT2/3/1/0
	n78: ANT6/4/5/7
CA_n7A-n78A	n7:ANT2/3/1/0
	n78: ANT6/4/5/7
CA_n41A-n78A	n41:ANT2/3/1/0
	n78: ANT6/4/5/7
CA_n41A-n77A	n41:ANT2/3/1/0
	n77: ANT6/4/5/7

<WLAN Conducted Power>

General Note:

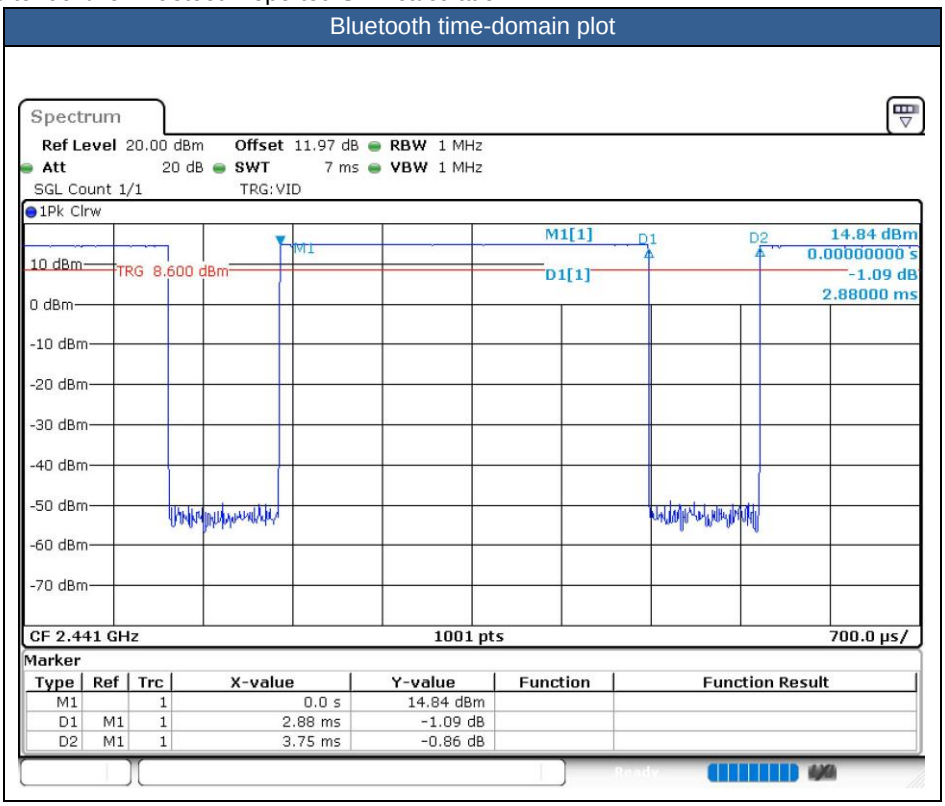
1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. 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 76.8 % 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. 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 (Default/Full Power; DSI 0: receiver on head power; DSI 1: P-Sensor on Body; DSI 4: hotspot on power; DSI 3: receiver off/ Sensor off).
5. For WLAN/BT when transmit simultaneous with WWAN, power reduction will be activated to head, body and extremity.
6. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
7. 5GNR n78 supports HPUE, HPUE power and SAR testing performed separately.
8. 5GNR n78 HUPE with higher power, 5GNR n78 HUPE SAR can represent power class 3 level SAR
9. 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.
10. 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.
11. 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.
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. 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.
15. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.
16. 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 WCDMA Band II/IV, LTE Band 2/4/7/41/66, 5GNR n7/n38/n41/n66/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.

17. 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.
18. For distance SAR and non-distance SAR, always chose higher SAR to do co-located analysis.
19. The following table“n/a”means the measured SAR is too small to find the 1g or 10g cube SAR.
20. Some LTE/NR bands support different PAs for some antennas, Whether it is the maximum power of Main PA is higher than and very close to the other PA, for RF exposure, we choose the main PA and other PA to perform full SAR tested to ensure the RF exposure is compliance.
21. For WLAN 5G distance SAR test at Top side 5mm is only for simultaneous transmission analysis with WWAN.

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 n5/n41/n77/n78 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.
7. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO power to perform SAR testing.
8. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of SISO antenna respectively to calculate sum of the power for MIMO mode.
9. Only chose MIMO power to perform SAR testing.

15.1 Head 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)
750MHz																			
01	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	23.73	25.00	1.340	-0.02	0.727	**0.974**
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	23.73	25.00	1.340	0.16	0.559	0.749
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	23.73	25.00	1.340	-0.02	0.377	0.505
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	23.73	25.00	1.340	0.11	0.319	0.427
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	23.24	24.50	1.337	-0.12	0.559	0.747
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	23.24	24.50	1.337	0.02	0.478	0.639
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	23.24	24.50	1.337	0.11	0.345	0.461
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	23.24	24.50	1.337	-0.05	0.293	0.392
	LTE Band 12	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	23.21	24.50	1.346	0.08	0.569	0.766
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	23095	707.5	24.77	25.70	1.239	-0.12	0.088	0.109
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	23095	707.5	24.77	25.70	1.239	-0.02	0.049	0.061
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	23095	707.5	24.77	25.70	1.239	-0.03	0.131	0.162
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	23095	707.5	24.77	25.70	1.239	-0.02	0.038	0.047
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	23095	707.5	23.84	24.70	1.219	0.1	0.076	0.093
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	23095	707.5	23.84	24.70	1.219	-0.07	0.037	0.045
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	23095	707.5	23.84	24.70	1.219	-0.12	0.082	0.100
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	23095	707.5	23.84	24.70	1.219	0.06	0.027	0.033
02	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Full Power	23230	782	24.00	25.50	1.413	-0.04	0.694	**0.980**
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Full Power	23230	782	24.00	25.50	1.413	0.16	0.561	0.792
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Full Power	23230	782	24.00	25.50	1.413	0.13	0.450	0.636
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Full Power	23230	782	24.00	25.50	1.413	0.15	0.393	0.555
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 0	Full Power	23230	782	22.89	24.50	1.449	0.09	0.554	0.803
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 0	Full Power	23230	782	22.89	24.50	1.449	0.11	0.497	0.720
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	Full Power	23230	782	22.89	24.50	1.449	-0.08	0.378	0.548
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 0	Full Power	23230	782	22.89	24.50	1.449	0.1	0.324	0.469
	LTE Band 13	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Full Power	23230	782	22.98	24.50	1.419	0.07	0.576	0.817
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	23230	782	24.51	25.70	1.315	-0.16	0.132	0.174
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	23230	782	24.51	25.70	1.315	0.02	0.083	0.109
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	23230	782	24.51	25.70	1.315	-0.05	0.186	0.245
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	23230	782	24.51	25.70	1.315	0.1	0.067	0.088
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	23230	782	23.55	24.70	1.303	0.11	0.099	0.129
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	23230	782	23.55	24.70	1.303	-0.11	0.062	0.081
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	23230	782	23.55	24.70	1.303	-0.11	0.108	0.141
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	23230	782	23.55	24.70	1.303	-0.07	0.050	0.065
835MHz																			
03	GSM850	-	-	-	-	GPRS 2 TX slots	Right Cheek	0mm	Ant 1	DSI 0	Reduced	189	836.4	29.30	31.00	1.479	-0.07	0.601	**0.889**
	GSM850	-	-	-	-	GPRS 2 TX slots	Right Tilted	0mm	Ant 1	DSI 0	Reduced	189	836.4	29.30	31.00	1.479	0.16	0.503	0.744
	GSM850	-	-	-	-	GPRS 2 TX slots	Left Cheek	0mm	Ant 1	DSI 0	Reduced	189	836.4	29.30	31.00	1.479	0.14	0.428	0.633
	GSM850	-	-	-	-	GPRS 2 TX slots	Left Tilted	0mm	Ant 1	DSI 0	Reduced	189	836.4	29.30	31.00	1.479	-0.1	0.362	0.535
	GSM850	-	-	-	-	GPRS 2 TX slots	Right Cheek	0mm	Ant 1	DSI 0	Reduced	128	824.2	29.08	31.00	1.556	-0.08	0.531	0.826
	GSM850	-	-	-	-	GPRS 2 TX slots	Right Cheek	0mm	Ant 1	DSI 0	Reduced	251	848.8	29.01	31.00	1.581	0.11	0.512	0.810
	GSM850	-	-	-	-	GPRS 2 TX slots	Right Cheek	0mm	Ant 0	DSI 0	Full Power	189	836.4	30.11	31.00	1.227	-0.02	0.217	0.266
	GSM850	-	-	-	-	GPRS 2 TX slots	Right Tilted	0mm	Ant 0	DSI 0	Full Power	189	836.4	30.11	31.00	1.227	-0.13	0.110	0.135
	GSM850	-	-	-	-	GPRS 2 TX slots	Left Cheek	0mm	Ant 0	DSI 0	Full Power	189	836.4	30.11	31.00	1.227	0.12	0.173	0.212
	GSM850	-	-	-	-	GPRS 2 TX slots	Left Tilted	0mm	Ant 0	DSI 0	Full Power	189	836.4	30.11	31.00	1.227	0.08	0.091	0.112
04	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	Reduced	4182	836.4	21.62	23.00	1.374	-0.09	0.529	**0.727**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 0	Reduced	4182	836.4	21.62	23.00	1.374	-0.12	0.498	0.684
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 0	Reduced	4182	836.4	21.62	23.00	1.374	-0.15	0.421	0.578
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 0	Reduced	4182	836.4	21.62	23.00	1.374	-0.14	0.359	0.493
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 0	Full Power	4182	836.4	24.08	25.00	1.236	0.11	0.220	0.272
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 0	Full Power	4182	836.4	24.08	25.00	1.236	0.16	0.092	0.114

	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 0	Full Power	4182	836.4	24.08	25.00	1.236	-0.16	0.203	0.251
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 0	Full Power	4182	836.4	24.08	25.00	1.236	-0.1	0.098	0.121
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.69	24.20	1.416	0.15	0.711	1.007
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.69	24.20	1.416	-0.12	0.620	0.878
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.69	24.20	1.416	0.15	0.582	0.824
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.69	24.20	1.416	0.16	0.653	0.925
05	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.58	24.20	1.452	-0.11	0.752	**1.092**
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.58	24.20	1.452	0.09	0.646	0.938
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.58	24.20	1.452	0.14	0.660	0.958
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.58	24.20	1.452	0.16	0.585	0.849
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.57	24.20	1.455	0.06	0.675	0.982
	LTE Band 26	15M	QPSK	75	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.57	24.20	1.455	0.02	0.633	0.921
	LTE Band 26	15M	QPSK	75	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.57	24.20	1.455	0.09	0.659	0.959
	LTE Band 26	15M	QPSK	75	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	26865	831.5	22.57	24.20	1.455	-0.08	0.591	0.860
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	26865	831.5	24.33	25.50	1.309	0.06	0.223	0.292
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	26865	831.5	24.33	25.50	1.309	0.09	0.116	0.152
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	26865	831.5	24.33	25.50	1.309	-0.11	0.180	0.236
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	26865	831.5	24.33	25.50	1.309	0.04	0.088	0.115
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	26865	831.5	23.14	24.50	1.368	0.02	0.174	0.238
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	26865	831.5	23.14	24.50	1.368	-0.12	0.098	0.134
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	26865	831.5	23.14	24.50	1.368	0.06	0.151	0.207
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	26865	831.5	23.14	24.50	1.368	0.05	0.074	0.101
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	21.69	22.70	1.262	-0.1	0.601	0.758
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	21.69	22.70	1.262	-0.16	0.525	0.662
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	21.69	22.70	1.262	-0.06	0.458	0.578
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	21.69	22.70	1.262	0.03	0.374	0.472
06	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	21.67	22.70	1.268	-0.13	0.626	**0.794**
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	21.67	22.70	1.268	-0.04	0.546	0.692
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	21.67	22.70	1.268	0.13	0.487	0.617
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	21.67	22.70	1.268	-0.11	0.429	0.544
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	20525	836.5	24.64	25.70	1.276	-0.15	0.269	0.343
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	20525	836.5	24.64	25.70	1.276	-0.13	0.137	0.175
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	20525	836.5	24.64	25.70	1.276	0.1	0.216	0.276
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	20525	836.5	24.64	25.70	1.276	0.09	0.105	0.134
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	20525	836.5	23.58	24.70	1.294	0.09	0.196	0.254
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	20525	836.5	23.58	24.70	1.294	0.1	0.109	0.141
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	20525	836.5	23.58	24.70	1.294	-0.02	0.171	0.221
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	20525	836.5	23.58	24.70	1.294	0.06	0.084	0.109
1750MHz																			
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	Reduced	1413	1732.6	16.45	17.50	1.274	-0.1	0.683	0.870
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 0	Reduced	1413	1732.6	16.45	17.50	1.274	0.02	0.520	0.662
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 0	Reduced	1413	1732.6	16.45	17.50	1.274	-0.03	0.332	0.423
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 0	Reduced	1413	1732.6	16.45	17.50	1.274	-0.08	0.375	0.478
07	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	Reduced	1312	1712.4	16.35	17.50	1.303	-0.17	0.696	**0.907**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	Reduced	1513	1752.6	16.31	17.50	1.315	-0.1	0.584	0.768
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 0	Full Power	1413	1732.6	24.30	25.00	1.175	-0.02	0.070	0.082
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI 0	Full Power	1413	1732.6	24.30	25.00	1.175	-0.03	0.203	0.239
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 0	Full Power	1413	1732.6	24.30	25.00	1.175	0.08	0.127	0.149
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI 0	Full Power	1413	1732.6	24.30	25.00	1.175	-0.01	0.091	0.107
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	16.67	18.00	1.358	0.02	0.754	1.024
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	16.67	18.00	1.358	-0.04	0.569	0.773
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	16.67	18.00	1.358	0.04	0.399	0.542
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	16.67	18.00	1.358	-0.1	0.454	0.617
08	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	16.61	18.00	1.377	0.1	0.793	**1.092**
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	16.61	18.00	1.377	-0.04	0.593	0.817
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	16.61	18.00	1.377	0.05	0.406	0.559

	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	16.61	18.00	1.377	-0.15	0.462	0.636
	LTE Band 4	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	16.45	18.00	1.429	0.1	0.743	1.062
	LTE Band 4	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	16.45	18.00	1.429	-0.04	0.559	0.799
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	20.28	22.00	1.486	0.12	0.610	0.906
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	20.28	22.00	1.486	-0.04	0.100	0.149
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	20.28	22.00	1.486	0.02	0.374	0.556
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	20.28	22.00	1.486	0.07	0.065	0.097
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	20.45	22.00	1.429	-0.06	0.591	0.844
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	20.45	22.00	1.429	-0.05	0.096	0.137
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	20.45	22.00	1.429	-0.15	0.371	0.530
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	20.45	22.00	1.429	0.16	0.062	0.089
	LTE Band 4	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	20.41	22.00	1.442	0.09	0.587	0.847
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.97	24.00	1.268	0.13	0.059	0.075
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.97	24.00	1.268	0.11	0.031	0.039
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.97	24.00	1.268	0.14	0.069	0.087
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.97	24.00	1.268	-0.04	0.016	0.020
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.05	23.00	1.245	0.14	0.049	0.061
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.05	23.00	1.245	0.14	0.021	0.026
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.05	23.00	1.245	-0.04	0.065	0.081
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.05	23.00	1.245	0.14	0.012	0.015
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	24.09	25.00	1.233	-0.13	0.152	0.187
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	24.09	25.00	1.233	0.01	0.069	0.085
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	24.09	25.00	1.233	-0.08	0.127	0.157
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	24.09	25.00	1.233	0.03	0.075	0.092
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	23.15	24.00	1.216	0.16	0.134	0.163
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	23.15	24.00	1.216	0.05	0.054	0.066
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	23.15	24.00	1.216	-0.16	0.112	0.136
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	23.15	24.00	1.216	-0.15	0.064	0.078
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132322	1745	18.05	19.00	1.245	-0.09	0.851	1.059
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132322	1745	18.05	19.00	1.245	0.08	0.660	0.821
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	132322	1745	18.05	19.00	1.245	0.02	0.441	0.549
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	132322	1745	18.05	19.00	1.245	-0.11	0.547	0.681
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132072	1720	17.90	19.00	1.288	0.09	0.751	0.967
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132572	1770	17.89	19.00	1.291	0.01	0.816	1.054
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132072	1720	17.90	19.00	1.288	0.05	0.602	0.776
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132572	1770	17.89	19.00	1.291	0.02	0.619	0.799
09	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132322	1745	18.03	19.00	1.250	0.18	0.874	**1.093**
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132322	1745	18.03	19.00	1.250	0.01	0.690	0.863
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	132322	1745	18.03	19.00	1.250	0.04	0.488	0.610
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	132322	1745	18.03	19.00	1.250	0.06	0.557	0.696
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132072	1720	17.90	19.00	1.288	0.09	0.763	0.983
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132572	1770	17.94	19.00	1.276	0.05	0.851	1.086
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132072	1720	17.90	19.00	1.288	-0.07	0.629	0.810
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132572	1770	17.94	19.00	1.276	0.01	0.657	0.839
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132322	1745	18.00	19.00	1.259	0.01	0.839	1.056
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132322	1745	18.00	19.00	1.259	-0.16	0.673	0.847
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132322	1745	20.59	22.00	1.384	-0.12	0.651	0.901
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	132322	1745	20.59	22.00	1.384	0.07	0.103	0.143
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	132322	1745	20.59	22.00	1.384	-0.08	0.364	0.504
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	132322	1745	20.59	22.00	1.384	-0.1	0.064	0.089
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132072	1720	20.35	22.00	1.462	-0.1	0.600	0.877
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132572	1770	20.56	22.00	1.393	-0.12	0.689	0.960
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132322	1745	20.53	22.00	1.403	-0.02	0.681	0.955
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	132322	1745	20.53	22.00	1.403	0.15	0.109	0.153
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	132322	1745	20.53	22.00	1.403	0.08	0.374	0.525
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	132322	1745	20.53	22.00	1.403	0.08	0.066	0.093

	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132072	1720	20.20	22.00	1.514	0.12	0.606	0.917
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132572	1770	20.49	22.00	1.416	0.19	0.701	0.992
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132322	1745	20.43	22.00	1.435	0.06	0.671	0.963
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	132322	1745	21.96	23.00	1.271	-0.12	0.047	0.060
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	132322	1745	21.96	23.00	1.271	0.13	0.023	0.029
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	132322	1745	21.96	23.00	1.271	0.15	0.051	0.065
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	132322	1745	21.96	23.00	1.271	0.13	0.015	0.019
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	132322	1745	20.95	22.00	1.274	-0.15	0.043	0.055
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	132322	1745	20.95	22.00	1.274	0.11	0.019	0.024
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	132322	1745	20.95	22.00	1.274	0.01	0.043	0.055
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	132322	1745	20.95	22.00	1.274	-0.16	0.011	0.014
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	23.25	24.00	1.189	-0.05	0.119	0.141
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	23.25	24.00	1.189	0.03	0.053	0.063
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	23.25	24.00	1.189	0.13	0.127	0.151
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	23.25	24.00	1.189	0.16	0.065	0.077
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	22.22	23.00	1.197	-0.06	0.093	0.111
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	22.22	23.00	1.197	0.12	0.046	0.055
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	22.22	23.00	1.197	-0.13	0.095	0.114
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	22.22	23.00	1.197	-0.16	0.051	0.061

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)	Reported 1g SAR (W/kg)
1900MHz																					
10	GSM1900	-	-	-	-	GPRS 1 TX slots	Right Cheek	0mm	Ant 1	DSI 0	Reduced	661	1880	24.55	26.00	1.396	-	-	0.11	0.684	**0.955**
	GSM1900	-	-	-	-	GPRS 1 TX slots	Right Tilted	0mm	Ant 1	DSI 0	Reduced	661	1880	24.55	26.00	1.396	-	-	0.07	0.536	0.748
	GSM1900	-	-	-	-	GPRS 1 TX slots	Left Cheek	0mm	Ant 1	DSI 0	Reduced	661	1880	24.55	26.00	1.396	-	-	0.05	0.274	0.383
	GSM1900	-	-	-	-	GPRS 1 TX slots	Left Tilted	0mm	Ant 1	DSI 0	Reduced	661	1880	24.55	26.00	1.396	-	-	0.15	0.318	0.444
	GSM1900	-	-	-	-	GPRS 1 TX slots	Right Cheek	0mm	Ant 1	DSI 0	Reduced	512	1850.2	24.52	26.00	1.406	-	-	0.11	0.566	0.796
	GSM1900	-	-	-	-	GPRS 1 TX slots	Right Cheek	0mm	Ant 1	DSI 0	Reduced	810	1909.8	24.45	26.00	1.429	-	-	0.1	0.525	0.750
	GSM1900	-	-	-	-	GPRS 4 TX slots	Right Cheek	0mm	Ant 2	DSI 0	Full Power	661	1880	23.73	25.00	1.340	-	-	0.1	0.060	0.080
	GSM1900	-	-	-	-	GPRS 4 TX slots	Right Tilted	0mm	Ant 2	DSI 0	Full Power	661	1880	23.73	25.00	1.340	-	-	-0.02	0.034	0.046
	GSM1900	-	-	-	-	GPRS 4 TX slots	Left Cheek	0mm	Ant 2	DSI 0	Full Power	661	1880	23.73	25.00	1.340	-	-	0.02	0.056	0.075
	GSM1900	-	-	-	-	GPRS 4 TX slots	Left Tilted	0mm	Ant 2	DSI 0	Full Power	661	1880	23.73	25.00	1.340	-	-	-0.12	0.045	0.060
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	Reduced	9400	1880	15.06	16.00	1.242	-	-	0.06	0.651	0.808
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 0	Reduced	9400	1880	15.06	16.00	1.242	-	-	-0.07	0.535	0.664
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 0	Reduced	9400	1880	15.06	16.00	1.242	-	-	0.01	0.286	0.355
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 0	Reduced	9400	1880	15.06	16.00	1.242	-	-	0.05	0.313	0.389
11	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	Reduced	9262	1852.4	15.02	16.00	1.253	-	-	0.14	0.707	**0.886**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	Reduced	9538	1907.6	14.93	16.00	1.279	-	-	-0.13	0.555	0.710
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 0	Full Power	9400	1880	24.19	25.00	1.205	-	-	-0.1	0.156	0.188
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI 0	Full Power	9400	1880	24.19	25.00	1.205	-	-	-0.07	0.075	0.090
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 0	Full Power	9400	1880	24.19	25.00	1.205	-	-	0.06	0.145	0.175
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI 0	Full Power	9400	1880	24.19	25.00	1.205	-	-	-0.03	0.115	0.139
12	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18900	1880	18.75	20.00	1.334	-	-	0.08	0.672	**0.896**
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	18900	1880	18.75	20.00	1.334	-	-	0.08	0.107	0.143
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	18900	1880	18.75	20.00	1.334	-	-	0.12	0.342	0.456
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	18900	1880	18.75	20.00	1.334	-	-	0.08	0.070	0.093
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18700	1860	18.67	20.00	1.358	-	-	0.09	0.468	0.636
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	19100	1900	18.61	20.00	1.377	-	-	0.01	0.498	0.686
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18900	1880	18.72	20.00	1.343	-	-	0.04	0.645	0.866
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	18900	1880	18.72	20.00	1.343	-	-	0.02	0.104	0.140
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	18900	1880	18.72	20.00	1.343	-	-	-0.03	0.339	0.455
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	18900	1880	18.72	20.00	1.343	-	-	0.08	0.069	0.093
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18700	1860	18.61	20.00	1.377	-	-	0.13	0.465	0.640
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	19100	1900	18.60	20.00	1.380	-	-	-0.04	0.485	0.669

	LTE Band 2	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18900	1880	18.70	20.00	1.349	-	-	0.01	0.651	0.878
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	18900	1880	22.54	24.00	1.400	-	-	0.12	0.084	0.118
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	18900	1880	22.54	24.00	1.400	-	-	0.08	0.067	0.094
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	18900	1880	22.54	24.00	1.400	-	-	0.04	0.106	0.148
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	18900	1880	22.54	24.00	1.400	-	-	-0.03	0.065	0.091
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	18900	1880	21.60	23.00	1.380	-	-	-0.14	0.070	0.097
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	18900	1880	21.60	23.00	1.380	-	-	-0.04	0.048	0.066
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	18900	1880	21.60	23.00	1.380	-	-	0.06	0.095	0.131
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	18900	1880	21.60	23.00	1.380	-	-	0.13	0.052	0.072
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	21100	2535	16.08	17.50	1.387	-	-	-0.08	0.535	0.742
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	21100	2535	16.08	17.50	1.387	-	-	0.07	0.330	0.458
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	21100	2535	16.08	17.50	1.387	-	-	0.01	0.186	0.258
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	21100	2535	16.08	17.50	1.387	-	-	-0.13	0.189	0.262
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	21100	2535	16.07	17.50	1.390	-	-	-0.13	0.551	0.766
	LTE Band 7C	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	21100+ 20902	2535+ 2515.2	16.02	17.50	1.406	-	-	0.12	0.539	0.758
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	21100	2535	16.07	17.50	1.390	-	-	-0.12	0.347	0.482
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	21100	2535	16.07	17.50	1.390	-	-	-0.13	0.193	0.268
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	21100	2535	16.07	17.50	1.390	-	-	-0.15	0.198	0.275
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.65	19.00	1.365	-	-	-0.05	0.617	0.842
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.65	19.00	1.365	-	-	0.07	0.111	0.151
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.65	19.00	1.365	-	-	0.09	0.250	0.341
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.65	19.00	1.365	-	-	0.14	0.059	0.081
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20850	2510	17.51	19.00	1.409	-	-	-0.11	0.400	0.564
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21350	2560	17.64	19.00	1.368	-	-	0.07	0.711	0.972
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.63	19.00	1.371	-	-	0.16	0.647	0.887
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.63	19.00	1.371	-	-	-0.13	0.123	0.169
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.63	19.00	1.371	-	-	-0.13	0.264	0.362
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.63	19.00	1.371	-	-	-0.02	0.064	0.088
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20850	2510	17.44	19.00	1.432	-	-	0.13	0.420	0.602
13	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21350	2560	17.60	19.00	1.380	-	-	0.09	0.740	**1.021**
	LTE Band 7C	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100+ 20902	2535+ 2515.2	17.55	19.00	1.396	-	-	0.09	0.689	0.962
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	17.61	19.00	1.377	-	-	0.05	0.601	0.828
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	21100	2535	22.14	23.00	1.219	-	-	-0.09	0.105	0.128
	LTE Band 7C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	21100+ 20902	2535+ 2515.2	22.13	23.00	1.222	-	-	0.08	0.100	0.122
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	21100	2535	22.14	23.00	1.219	-	-	0.09	0.041	0.050
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	21100	2535	22.14	23.00	1.219	-	-	-0.05	0.059	0.072
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	21100	2535	22.14	23.00	1.219	-	-	0.04	0.070	0.085
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	21100	2535	21.20	22.00	1.202	-	-	0.16	0.101	0.121
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	21100	2535	21.20	22.00	1.202	-	-	0.15	0.037	0.044
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	21100	2535	21.20	22.00	1.202	-	-	0.03	0.051	0.061
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	21100	2535	21.20	22.00	1.202	-	-	-0.15	0.054	0.065
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	21100	2535	23.63	24.50	1.222	-	-	-0.16	0.164	0.200
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	21100	2535	23.63	24.50	1.222	-	-	0.03	0.134	0.164
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	21100	2535	23.63	24.50	1.222	-	-	0.15	0.359	0.439
	LTE Band 7C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	21100+ 20902	2535+ 2515.2	23.62	24.50	1.225	-	-	0.03	0.346	0.424
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	21100	2535	23.63	24.50	1.222	-	-	-0.05	0.104	0.127
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	21100	2535	22.53	23.50	1.250	-	-	-0.12	0.137	0.171
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	21100	2535	22.53	23.50	1.250	-	-	-0.15	0.109	0.136
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	21100	2535	22.53	23.50	1.250	-	-	0.05	0.286	0.358
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	21100	2535	22.53	23.50	1.250	-	-	0.09	0.079	0.099
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	38000	2595	17.46	19.00	1.426	62.9	1.006	-0.13	0.431	0.618
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	38000	2595	17.46	19.00	1.426	62.9	1.006	0.02	0.298	0.427
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	38000	2595	17.46	19.00	1.426	62.9	1.006	-0.08	0.178	0.255
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	38000	2595	17.46	19.00	1.426	62.9	1.006	0.11	0.180	0.258

	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	38000	2595	17.38	19.00	1.452	62.9	1.006	0.16	0.458	0.669
	LTE Band 38C	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	37901+38099	2585.1+2604.9	17.37	19.00	1.455	62.9	1.006	0.07	0.416	0.609
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	38000	2595	17.38	19.00	1.452	62.9	1.006	-0.08	0.308	0.450
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	38000	2595	17.38	19.00	1.452	62.9	1.006	0.16	0.187	0.273
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	38000	2595	17.38	19.00	1.452	62.9	1.006	0.14	0.189	0.276
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	19.11	20.20	1.285	62.9	1.006	-0.1	0.689	0.891
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	38000	2595	19.11	20.20	1.285	62.9	1.006	-0.16	0.131	0.169
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	19.11	20.20	1.285	62.9	1.006	0.04	0.243	0.314
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	38000	2595	19.11	20.20	1.285	62.9	1.006	0.02	0.063	0.081
14	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	19.03	20.20	1.309	62.9	1.006	0.13	0.714	**0.940**
	LTE Band 38C	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	37901+38099	2585.1+2604.9	19.01	20.20	1.315	62.9	1.006	0.08	0.673	0.890
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	38000	2595	19.03	20.20	1.309	62.9	1.006	0.02	0.141	0.186
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	19.03	20.20	1.309	62.9	1.006	0.08	0.262	0.345
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	38000	2595	19.03	20.20	1.309	62.9	1.006	0.09	0.065	0.086
	LTE Band 38	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	18.97	20.20	1.327	62.9	1.006	0.13	0.700	0.935
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	38000	2595	22.88	24.00	1.294	62.9	1.006	0.15	0.079	0.103
	LTE Band 38C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	37901+38099	2585.1+2604.9	22.83	24.00	1.309	62.9	1.006	0.08	0.071	0.094
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	38000	2595	22.88	24.00	1.294	62.9	1.006	0.01	0.031	0.040
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	38000	2595	22.88	24.00	1.294	62.9	1.006	-0.12	0.045	0.059
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	38000	2595	22.88	24.00	1.294	62.9	1.006	0.08	0.044	0.057
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	38000	2595	21.78	23.00	1.324	62.9	1.006	0.14	0.074	0.099
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.16	0.024	0.032
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.12	0.037	0.049
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	38000	2595	21.78	23.00	1.324	62.9	1.006	0.14	0.030	0.040
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	38000	2595	24.64	25.50	1.219	62.9	1.006	0.16	0.102	0.125
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	38000	2595	24.64	25.50	1.219	62.9	1.006	-0.14	0.081	0.099
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	38000	2595	24.64	25.50	1.219	62.9	1.006	-0.16	0.219	0.269
	LTE Band 38C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	37901+38099	2585.1+2604.9	24.63	25.50	1.222	62.9	1.006	0.06	0.188	0.231
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	38000	2595	24.64	25.50	1.219	62.9	1.006	-0.16	0.066	0.081
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.12	0.088	0.113
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.07	0.063	0.081
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.04	0.171	0.219
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.07	0.050	0.064
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	40620	2593	19.67	21.00	1.358	62.9	1.006	0.03	0.649	0.887
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	40620	2593	19.67	21.00	1.358	62.9	1.006	0.12	0.481	0.657
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	40620	2593	19.67	21.00	1.358	62.9	1.006	0.11	0.330	0.451
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	40620	2593	19.67	21.00	1.358	62.9	1.006	-0.05	0.332	0.454
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	39750	2506	19.58	21.00	1.387	62.9	1.006	0.01	0.585	0.816
15	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	40185	2549.5	19.63	21.00	1.371	62.9	1.006	0.17	0.711	**0.981**
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	41055	2636.5	19.51	21.00	1.409	62.9	1.006	0.16	0.645	0.914
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	41490	2680	19.48	21.00	1.419	62.9	1.006	0.06	0.622	0.888
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	39750	2506	19.58	21.00	1.387	62.9	1.006	0.04	0.381	0.532
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	40185	2549.5	19.63	21.00	1.371	62.9	1.006	0.16	0.469	0.647
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	41055	2636.5	19.51	21.00	1.409	62.9	1.006	-0.06	0.468	0.664
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	41490	2680	19.48	21.00	1.419	62.9	1.006	-0.03	0.471	0.672
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	40620	2593	19.65	21.00	1.365	62.9	1.006	-0.06	0.639	0.877
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	40620	2593	19.65	21.00	1.365	62.9	1.006	-0.13	0.473	0.649
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	40620	2593	19.65	21.00	1.365	62.9	1.006	0.16	0.310	0.426
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	40620	2593	19.65	21.00	1.365	62.9	1.006	-0.04	0.318	0.437
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	39750	2506	19.48	21.00	1.419	62.9	1.006	0.09	0.571	0.815
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	40185	2549.5	19.61	21.00	1.377	62.9	1.006	0.02	0.701	0.971
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	41055	2636.5	19.50	21.00	1.413	62.9	1.006	0.16	0.624	0.887
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	41490	2680	19.44	21.00	1.432	62.9	1.006	0.09	0.594	0.856
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	39750	2506	19.48	21.00	1.419	62.9	1.006	-0.07	0.368	0.525
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	40185	2549.5	19.61	21.00	1.377	62.9	1.006	-0.05	0.446	0.618

	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	41055	2636.5	19.50	21.00	1.413	62.9	1.006	-0.15	0.431	0.612
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	41490	2680	19.44	21.00	1.432	62.9	1.006	0.12	0.421	0.607
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	40620	2593	19.61	21.00	1.377	62.9	1.006	0.06	0.631	0.874
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	40620	2593	19.61	21.00	1.377	62.9	1.006	0.09	0.460	0.637
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	19.33	20.20	1.222	62.9	1.006	0.1	0.731	0.898
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	40620	2593	19.33	20.20	1.222	62.9	1.006	0.12	0.132	0.162
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	19.33	20.20	1.222	62.9	1.006	0.09	0.257	0.316
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	40620	2593	19.33	20.20	1.222	62.9	1.006	0.01	0.072	0.088
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	39750	2506	18.99	20.20	1.321	62.9	1.006	0.04	0.316	0.420
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	19.21	20.20	1.256	62.9	1.006	-0.12	0.396	0.500
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	41055	2636.5	19.19	20.20	1.262	62.9	1.006	0.1	0.504	0.640
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	41490	2680	19.25	20.20	1.245	62.9	1.006	0.06	0.411	0.515
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	19.32	20.20	1.225	62.9	1.006	0.03	0.754	0.929
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.06	0.138	0.170
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	19.32	20.20	1.225	62.9	1.006	0.01	0.268	0.330
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.07	0.074	0.091
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	39750	2506	19.13	20.20	1.279	62.9	1.006	-0.13	0.330	0.425
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40185	2549.5	19.21	20.20	1.256	62.9	1.006	-0.07	0.412	0.521
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	41055	2636.5	19.13	20.20	1.279	62.9	1.006	-0.06	0.509	0.655
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	41490	2680	19.17	20.20	1.268	62.9	1.006	0.02	0.417	0.532
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	19.23	20.20	1.250	62.9	1.006	0.08	0.720	0.906
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	40620	2593	22.90	24.00	1.288	62.9	1.006	0.05	0.080	0.104
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	40620	2593	22.90	24.00	1.288	62.9	1.006	0.11	0.037	0.048
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	40620	2593	22.90	24.00	1.288	62.9	1.006	0.05	0.049	0.064
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	40620	2593	22.90	24.00	1.288	62.9	1.006	0.06	0.051	0.066
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	40620	2593	21.98	23.00	1.265	62.9	1.006	-0.13	0.076	0.097
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	40620	2593	21.98	23.00	1.265	62.9	1.006	-0.05	0.031	0.039
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	40620	2593	21.98	23.00	1.265	62.9	1.006	0.02	0.044	0.056
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	40620	2593	21.98	23.00	1.265	62.9	1.006	-0.12	0.047	0.060
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	40620	2593	24.73	25.70	1.250	62.9	1.006	0.1	0.118	0.148
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	40620	2593	24.73	25.70	1.250	62.9	1.006	0.11	0.088	0.111
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	40620	2593	24.73	25.70	1.250	62.9	1.006	0.12	0.245	0.308
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	40620	2593	24.73	25.70	1.250	62.9	1.006	-0.03	0.073	0.092
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	40620	2593	23.77	24.70	1.239	62.9	1.006	0.01	0.097	0.121
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	40620	2593	23.77	24.70	1.239	62.9	1.006	0.05	0.069	0.086
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	40620	2593	23.77	24.70	1.239	62.9	1.006	0.03	0.221	0.275
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	40620	2593	23.77	24.70	1.239	62.9	1.006	0.07	0.058	0.072

DL CA / Inter-band CA & EN-DC LTE Main PA

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)
750MHz																			
	LTE Band 12_Main PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.24	22.50	1.337	-0.14	0.409	0.547
	LTE Band 12_Main PA	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.24	22.50	1.337	0.13	0.314	0.420
	LTE Band 12_Main PA	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.24	22.50	1.337	-0.16	0.212	0.283
	LTE Band 12_Main PA	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.24	22.50	1.337	0.04	0.179	0.239
	LTE Band 12_Main PA	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.23	22.50	1.340	-0.09	0.314	0.421
	LTE Band 12_Main PA	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.23	22.50	1.340	-0.06	0.269	0.360
	LTE Band 12_Main PA	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.23	22.50	1.340	-0.05	0.194	0.260
	LTE Band 12_Main PA	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	23095	707.5	21.23	22.50	1.340	0.09	0.165	0.221
	LTE Band 12_Main PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	23095	707.5	24.77	25.70	1.239	-0.12	0.088	0.109
	LTE Band 12_Main PA	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	23095	707.5	24.77	25.70	1.239	-0.02	0.049	0.061
	LTE Band 12_Main PA	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	23095	707.5	24.77	25.70	1.239	-0.03	0.131	0.162
	LTE Band 12_Main PA	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	23095	707.5	24.77	25.70	1.239	-0.02	0.038	0.047
	LTE Band 12_Main PA	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	23095	707.5	23.84	24.70	1.219	0.1	0.076	0.093
	LTE Band 12_Main PA	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	23095	707.5	23.84	24.70	1.219	-0.07	0.037	0.045
	LTE Band 12_Main PA	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	23095	707.5	23.84	24.70	1.219	-0.12	0.082	0.100
	LTE Band 12_Main PA	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	23095	707.5	23.84	24.70	1.219	0.06	0.027	0.033
835MHz																			
	LTE Band 5_Main PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.68	20.70	1.265	0.12	0.379	0.479
	LTE Band 5_Main PA	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.68	20.70	1.265	-0.05	0.331	0.419
	LTE Band 5_Main PA	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.68	20.70	1.265	0.08	0.289	0.366
	LTE Band 5_Main PA	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.68	20.70	1.265	0.11	0.236	0.298
	LTE Band 5_Main PA	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.67	20.70	1.268	0.06	0.395	0.501
	LTE Band 5_Main PA	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.67	20.70	1.268	0.09	0.345	0.437
	LTE Band 5_Main PA	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.67	20.70	1.268	0.16	0.307	0.389
	LTE Band 5_Main PA	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20525	836.5	19.67	20.70	1.268	-0.09	0.271	0.344
	LTE Band 5_Main PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	20525	836.5	24.64	25.70	1.276	-0.15	0.269	0.343
	LTE Band 5_Main PA	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	20525	836.5	24.64	25.70	1.276	-0.13	0.137	0.175
	LTE Band 5_Main PA	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	20525	836.5	24.64	25.70	1.276	0.1	0.216	0.276
	LTE Band 5_Main PA	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	20525	836.5	24.64	25.70	1.276	0.09	0.105	0.134
	LTE Band 5_Main PA	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	20525	836.5	23.58	24.70	1.294	0.09	0.196	0.254
	LTE Band 5_Main PA	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	20525	836.5	23.58	24.70	1.294	0.1	0.109	0.141
	LTE Band 5_Main PA	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	20525	836.5	23.58	24.70	1.294	-0.02	0.171	0.221
	LTE Band 5_Main PA	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	20525	836.5	23.58	24.70	1.294	0.06	0.084	0.109
1750MHz																			
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.49	20.00	1.416	-0.16	0.385	0.545
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.49	20.00	1.416	-0.15	0.063	0.089
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.49	20.00	1.416	-0.02	0.236	0.334
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.49	20.00	1.416	-0.03	0.041	0.058
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.45	20.00	1.429	-0.07	0.373	0.533
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.45	20.00	1.429	-0.16	0.061	0.087
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.45	20.00	1.429	-0.09	0.234	0.334
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	20175	1732.5	18.45	20.00	1.429	0.01	0.039	0.056
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	24.09	25.00	1.233	-0.13	0.152	0.187
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	24.09	25.00	1.233	0.01	0.069	0.085
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	24.09	25.00	1.233	-0.08	0.127	0.157
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	24.09	25.00	1.233	0.03	0.075	0.092
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	23.15	24.00	1.216	0.16	0.134	0.163
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	23.15	24.00	1.216	0.05	0.054	0.066
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	23.15	24.00	1.216	-0.16	0.112	0.136
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	20175	1732.5	23.15	24.00	1.216	-0.15	0.064	0.078
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132322	1745	15.08	16.00	1.236	-0.08	0.427	0.528

	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132322	1745	15.08	16.00	1.236	-0.09	0.331	0.409
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	132322	1745	15.08	16.00	1.236	-0.01	0.221	0.273
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	132322	1745	15.08	16.00	1.236	-0.03	0.274	0.339
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132322	1745	15.03	16.00	1.250	-0.02	0.438	0.548
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132322	1745	15.03	16.00	1.250	-0.12	0.346	0.433
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	132322	1745	15.03	16.00	1.250	-0.05	0.245	0.306
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	132322	1745	15.03	16.00	1.250	-0.02	0.279	0.349
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132322	1745	18.11	19.50	1.377	0.09	0.366	0.504
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	132322	1745	18.11	19.50	1.377	-0.16	0.058	0.080
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	132322	1745	18.11	19.50	1.377	0.13	0.205	0.282
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	132322	1745	18.11	19.50	1.377	0.11	0.036	0.050
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132322	1745	18.04	19.50	1.400	-0.16	0.383	0.536
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	132322	1745	18.04	19.50	1.400	0.1	0.061	0.085
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	132322	1745	18.04	19.50	1.400	-0.12	0.210	0.294
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	132322	1745	18.04	19.50	1.400	0.01	0.037	0.052
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	132322	1745	21.96	23.00	1.271	-0.12	0.047	0.060
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	132322	1745	21.96	23.00	1.271	0.13	0.023	0.029
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	132322	1745	21.96	23.00	1.271	0.15	0.051	0.065
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	132322	1745	21.96	23.00	1.271	0.13	0.015	0.019
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	132322	1745	20.95	22.00	1.274	-0.15	0.043	0.055
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	132322	1745	20.95	22.00	1.274	0.11	0.019	0.024
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	132322	1745	20.95	22.00	1.274	0.01	0.043	0.055
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	132322	1745	20.95	22.00	1.274	-0.16	0.011	0.014
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	23.25	24.00	1.189	-0.05	0.119	0.141
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	23.25	24.00	1.189	0.03	0.053	0.063
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	23.25	24.00	1.189	0.13	0.127	0.151
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	23.25	24.00	1.189	0.16	0.065	0.077
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	22.22	23.00	1.197	-0.06	0.093	0.111
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	22.22	23.00	1.197	0.12	0.046	0.055
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	22.22	23.00	1.197	-0.13	0.095	0.114
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	22.22	23.00	1.197	-0.16	0.051	0.061
1900MHz																			
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18900	1880	16.24	17.50	1.337	-0.1	0.378	0.505
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	18900	1880	16.24	17.50	1.337	0.11	0.060	0.080
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	18900	1880	16.24	17.50	1.337	-0.09	0.192	0.257
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	18900	1880	16.24	17.50	1.337	-0.07	0.039	0.052
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	18900	1880	16.23	17.50	1.340	-0.04	0.363	0.486
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	18900	1880	16.23	17.50	1.340	-0.02	0.058	0.078
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	18900	1880	16.23	17.50	1.340	-0.04	0.191	0.256
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	18900	1880	16.23	17.50	1.340	0.11	0.039	0.052
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	18900	1880	22.54	24.00	1.400	0.12	0.084	0.118
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	18900	1880	22.54	24.00	1.400	0.08	0.067	0.094
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	18900	1880	22.54	24.00	1.400	0.04	0.106	0.148
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	18900	1880	22.54	24.00	1.400	-0.03	0.065	0.091
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	18900	1880	21.60	23.00	1.380	-0.14	0.070	0.097
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	18900	1880	21.60	23.00	1.380	-0.04	0.048	0.066
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	18900	1880	21.60	23.00	1.380	0.06	0.095	0.131
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	18900	1880	21.60	23.00	1.380	0.13	0.052	0.072

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)	Reported 1g SAR (W/kg)
2600MHz																					
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	21100	2535	14.60	16.00	1.380	-	-	0.1	0.379	0.523
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	21100	2535	14.60	16.00	1.380	-	-	0.02	0.234	0.323
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	21100	2535	14.60	16.00	1.380	-	-	0.08	0.132	0.182
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	21100	2535	14.60	16.00	1.380	-	-	-0.05	0.134	0.185
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	21100	2535	14.59	16.00	1.384	-	-	0.01	0.390	0.540
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	21100	2535	14.59	16.00	1.384	-	-	0.08	0.246	0.340
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	21100	2535	14.59	16.00	1.384	-	-	0.12	0.137	0.190
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	21100	2535	14.59	16.00	1.384	-	-	0.01	0.140	0.194
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.13	16.50	1.371	-	-	0.04	0.347	0.476
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.13	16.50	1.371	-	-	-0.12	0.062	0.085
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.13	16.50	1.371	-	-	0.04	0.141	0.193
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.13	16.50	1.371	-	-	0.15	0.033	0.045
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.11	16.50	1.377	-	-	0.08	0.364	0.501
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.11	16.50	1.377	-	-	0.04	0.069	0.095
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.11	16.50	1.377	-	-	0.08	0.148	0.204
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21100	2535	15.11	16.50	1.377	-	-	-0.13	0.036	0.050
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	21100	2535	22.14	23.00	1.219	-	-	-0.09	0.105	0.128
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	21100	2535	22.14	23.00	1.219	-	-	0.09	0.041	0.050
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	21100	2535	22.14	23.00	1.219	-	-	-0.05	0.059	0.072
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	21100	2535	22.14	23.00	1.219	-	-	0.04	0.070	0.085
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	21100	2535	21.20	22.00	1.202	-	-	0.16	0.101	0.121
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	21100	2535	21.20	22.00	1.202	-	-	0.15	0.037	0.044
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	21100	2535	21.20	22.00	1.202	-	-	0.03	0.051	0.061
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	21100	2535	21.20	22.00	1.202	-	-	-0.15	0.054	0.065
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	21100	2535	23.63	24.50	1.222	-	-	-0.16	0.164	0.200
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	21100	2535	23.63	24.50	1.222	-	-	0.03	0.134	0.164
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	21100	2535	23.63	24.50	1.222	-	-	0.15	0.359	0.439
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	21100	2535	23.63	24.50	1.222	-	-	-0.05	0.104	0.127
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	21100	2535	22.53	23.50	1.250	-	-	-0.12	0.137	0.171
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	21100	2535	22.53	23.50	1.250	-	-	-0.15	0.109	0.136
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	21100	2535	22.53	23.50	1.250	-	-	0.05	0.286	0.358
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	21100	2535	22.53	23.50	1.250	-	-	0.09	0.079	0.099
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	38000	2595	16.48	18.00	1.419	62.9	1.006	0.06	0.342	0.488
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	38000	2595	16.48	18.00	1.419	62.9	1.006	-0.12	0.237	0.338
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	38000	2595	16.48	18.00	1.419	62.9	1.006	-0.1	0.141	0.201
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	38000	2595	16.48	18.00	1.419	62.9	1.006	0.03	0.143	0.204
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	38000	2595	16.41	18.00	1.442	62.9	1.006	-0.11	0.364	0.528
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	38000	2595	16.41	18.00	1.442	62.9	1.006	-0.06	0.245	0.355
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	38000	2595	16.41	18.00	1.442	62.9	1.006	0.06	0.149	0.216
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	38000	2595	16.41	18.00	1.442	62.9	1.006	-0.16	0.150	0.218
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	16.62	17.70	1.282	62.9	1.006	-0.11	0.387	0.499
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	38000	2595	16.62	17.70	1.282	62.9	1.006	-0.14	0.074	0.095
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	16.62	17.70	1.282	62.9	1.006	0.01	0.137	0.177
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	38000	2595	16.62	17.70	1.282	62.9	1.006	-0.13	0.035	0.045
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	16.57	17.70	1.297	62.9	1.006	0.08	0.402	0.525
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	38000	2595	16.57	17.70	1.297	62.9	1.006	-0.03	0.079	0.103
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	38000	2595	16.57	17.70	1.297	62.9	1.006	-0.08	0.147	0.192
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	38000	2595	16.57	17.70	1.297	62.9	1.006	0.13	0.037	0.048
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	38000	2595	22.88	24.00	1.294	62.9	1.006	0.15	0.079	0.103
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	38000	2595	22.88	24.00	1.294	62.9	1.006	0.01	0.031	0.040
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	38000	2595	22.88	24.00	1.294	62.9	1.006	-0.12	0.045	0.059

	LTE Band 38_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	38000	2595	22.88	24.00	1.294	62.9	1.006	0.08	0.044	0.057
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	38000	2595	21.78	23.00	1.324	62.9	1.006	0.14	0.074	0.099
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.16	0.024	0.032
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.12	0.037	0.049
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	38000	2595	21.78	23.00	1.324	62.9	1.006	0.14	0.030	0.040
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	38000	2595	24.64	25.50	1.219	62.9	1.006	0.16	0.102	0.125
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	38000	2595	24.64	25.50	1.219	62.9	1.006	-0.14	0.081	0.099
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	38000	2595	24.64	25.50	1.219	62.9	1.006	-0.16	0.219	0.269
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	38000	2595	24.64	25.50	1.219	62.9	1.006	-0.16	0.066	0.081
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.12	0.088	0.113
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.07	0.063	0.081
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.04	0.171	0.219
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.07	0.050	0.064
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	40620	2593	17.20	18.50	1.349	62.9	1.006	0.08	0.365	0.495
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	40620	2593	17.20	18.50	1.349	62.9	1.006	-0.07	0.270	0.366
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	40620	2593	17.20	18.50	1.349	62.9	1.006	-0.11	0.186	0.252
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	40620	2593	17.20	18.50	1.349	62.9	1.006	0.02	0.187	0.254
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	Reduced	40620	2593	17.13	18.50	1.371	62.9	1.006	-0.03	0.359	0.495
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	Reduced	40620	2593	17.13	18.50	1.371	62.9	1.006	0.03	0.266	0.367
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	Reduced	40620	2593	17.13	18.50	1.371	62.9	1.006	-0.11	0.174	0.240
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	Reduced	40620	2593	17.13	18.50	1.371	62.9	1.006	-0.05	0.179	0.247
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	16.86	17.70	1.213	62.9	1.006	-0.1	0.411	0.502
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	40620	2593	16.86	17.70	1.213	62.9	1.006	0.05	0.074	0.090
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	16.86	17.70	1.213	62.9	1.006	-0.08	0.145	0.177
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	40620	2593	16.86	17.70	1.213	62.9	1.006	-0.05	0.040	0.049
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	16.85	17.70	1.216	62.9	1.006	0.08	0.424	0.519
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	Reduced	40620	2593	16.85	17.70	1.216	62.9	1.006	-0.14	0.078	0.095
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	Reduced	40620	2593	16.85	17.70	1.216	62.9	1.006	-0.07	0.151	0.185
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	Reduced	40620	2593	16.85	17.70	1.216	62.9	1.006	0.06	0.042	0.051
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	40620	2593	22.90	24.00	1.288	62.9	1.006	0.05	0.080	0.104
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	40620	2593	22.90	24.00	1.288	62.9	1.006	0.11	0.037	0.048
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	40620	2593	22.90	24.00	1.288	62.9	1.006	0.05	0.049	0.064
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	40620	2593	22.90	24.00	1.288	62.9	1.006	0.06	0.051	0.066
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 0	Full Power	40620	2593	21.98	23.00	1.265	62.9	1.006	-0.13	0.076	0.097
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 0	Full Power	40620	2593	21.98	23.00	1.265	62.9	1.006	-0.05	0.031	0.039
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 0	Full Power	40620	2593	21.98	23.00	1.265	62.9	1.006	0.02	0.044	0.056
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 0	Full Power	40620	2593	21.98	23.00	1.265	62.9	1.006	-0.12	0.047	0.060
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	40620	2593	24.73	25.70	1.250	62.9	1.006	0.1	0.118	0.148
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	40620	2593	24.73	25.70	1.250	62.9	1.006	0.11	0.088	0.111
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	40620	2593	24.73	25.70	1.250	62.9	1.006	0.12	0.245	0.308
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	40620	2593	24.73	25.70	1.250	62.9	1.006	-0.03	0.073	0.092
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	Full Power	40620	2593	23.77	24.70	1.239	62.9	1.006	0.01	0.097	0.121
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	Full Power	40620	2593	23.77	24.70	1.239	62.9	1.006	0.05	0.069	0.086
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	Full Power	40620	2593	23.77	24.70	1.239	62.9	1.006	0.03	0.221	0.275
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	Full Power	40620	2593	23.77	24.70	1.239	62.9	1.006	0.07	0.058	0.072

DL CA / Inter-Band CA & EN-DC LTE Other PA

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)
1750MHz																		
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	15.95	17.00	1.274	-0.03	0.321	0.409
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	15.95	17.00	1.274	-0.1	0.280	0.357
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	15.95	17.00	1.274	-0.15	0.135	0.172
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	15.95	17.00	1.274	-0.01	0.156	0.199
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	15.71	17.00	1.346	0.09	0.374	0.503
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	15.71	17.00	1.346	-0.08	0.289	0.389
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	15.71	17.00	1.346	0.04	0.146	0.196
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20175	1732.5	15.71	17.00	1.346	0.01	0.169	0.227
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	23.43	25.00	1.435	0.1	0.065	0.093
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	23.43	25.00	1.435	-0.11	0.016	0.023
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	23.43	25.00	1.435	0.05	0.079	0.113
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	23.43	25.00	1.435	0.14	0.023	0.033
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.31	24.00	1.476	-0.12	0.067	0.099
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.31	24.00	1.476	-0.12	0.021	0.031
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.31	24.00	1.476	-0.07	0.081	0.120
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full Power	20175	1732.5	22.31	24.00	1.476	-0.16	0.026	0.038
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132572	1770	14.57	15.50	1.239	-0.08	0.347	0.430
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132572	1770	14.57	15.50	1.239	-0.09	0.318	0.394
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	132572	1770	14.57	15.50	1.239	-0.03	0.162	0.201
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	132572	1770	14.57	15.50	1.239	0.07	0.188	0.233
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	132572	1770	14.40	15.50	1.288	0.06	0.397	0.511
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	132572	1770	14.40	15.50	1.288	0.02	0.337	0.434
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	132572	1770	14.40	15.50	1.288	0.01	0.174	0.224
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	132572	1770	14.40	15.50	1.288	0.12	0.191	0.246
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132572	1770	19.36	20.50	1.300	0.06	0.068	0.088
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	132572	1770	19.36	20.50	1.300	0.09	0.023	0.030
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	132572	1770	19.36	20.50	1.300	-0.07	0.041	0.053
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	132572	1770	19.36	20.50	1.300	-0.05	0.009	0.012
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	132572	1770	19.30	20.50	1.318	-0.16	0.066	0.087
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	132572	1770	19.30	20.50	1.318	-0.11	0.020	0.026
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	132572	1770	19.30	20.50	1.318	0.06	0.035	0.046
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	132572	1770	19.30	20.50	1.318	-0.16	0.007	0.009
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full Power	132572	1770	22.57	24.00	1.390	-0.16	0.051	0.071
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full Power	132572	1770	22.57	24.00	1.390	0.16	0.021	0.029
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full Power	132572	1770	22.57	24.00	1.390	0.14	0.062	0.086
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full Power	132572	1770	22.57	24.00	1.390	-0.1	0.023	0.032
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full Power	132572	1770	21.56	23.00	1.393	-0.01	0.050	0.070
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full Power	132572	1770	21.56	23.00	1.393	-0.03	0.019	0.026
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full Power	132572	1770	21.56	23.00	1.393	-0.03	0.058	0.081
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full Power	132572	1770	21.56	23.00	1.393	0.07	0.020	0.028
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	21.42	23.00	1.439	-0.01	0.068	0.098
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	21.42	23.00	1.439	-0.14	0.049	0.071
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	21.42	23.00	1.439	-0.01	0.085	0.122
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	21.42	23.00	1.439	-0.05	0.046	0.066
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	20.84	22.50	1.466	0.15	0.073	0.107
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	20.84	22.50	1.466	-0.02	0.051	0.075
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full Power	132322	1745	20.84	22.50	1.466	-0.07	0.092	0.135
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full Power	132322	1745	20.84	22.50	1.466	0.02	0.048	0.070
2600MHz																		
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20850	2510	16.72	17.50	1.197	-0.13	0.409	0.489
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20850	2510	16.72	17.50	1.197	-0.03	0.381	0.456

	LTE Band 7_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20850	2510	16.72	17.50	1.197	-0.01	0.220	0.263
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20850	2510	16.72	17.50	1.197	-0.03	0.217	0.260
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 0	Reduced	20850	2510	16.66	17.50	1.213	0.03	0.427	0.518
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 0	Reduced	20850	2510	16.66	17.50	1.213	0.06	0.402	0.488
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 0	Reduced	20850	2510	16.66	17.50	1.213	-0.03	0.226	0.274
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI 0	Reduced	20850	2510	16.66	17.50	1.213	-0.03	0.221	0.268
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21350	2560	16.25	17.50	1.334	0.04	0.155	0.207
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21350	2560	16.25	17.50	1.334	-0.13	0.045	0.060
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21350	2560	16.25	17.50	1.334	-0.14	0.078	0.104
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21350	2560	16.25	17.50	1.334	0.07	0.021	0.028
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	DSI 0	Reduced	21350	2560	16.20	17.50	1.349	-0.04	0.151	0.204
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	DSI 0	Reduced	21350	2560	16.20	17.50	1.349	0.12	0.032	0.043
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	DSI 0	Reduced	21350	2560	16.20	17.50	1.349	-0.08	0.070	0.094
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	DSI 0	Reduced	21350	2560	16.20	17.50	1.349	0.03	0.018	0.024
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 0	Full Power	21350	2560	22.53	24.00	1.403	0.14	0.112	0.157
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 0	Full Power	21350	2560	22.53	24.00	1.403	0.01	0.031	0.043
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 0	Full Power	21350	2560	22.53	24.00	1.403	0.1	0.057	0.080
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 0	Full Power	21350	2560	22.53	24.00	1.403	0.14	0.048	0.067
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 0	Full Power	21350	2560	22.05	23.50	1.396	-0.13	0.068	0.095
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 0	Full Power	21350	2560	22.05	23.50	1.396	0.06	0.018	0.025
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 0	Full Power	21350	2560	22.05	23.50	1.396	-0.16	0.032	0.045
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 0	Full Power	21350	2560	22.05	23.50	1.396	0.05	0.026	0.036
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 0	Full Power	20850	2510	22.04	23.50	1.400	-0.16	0.105	0.147
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 0	Full Power	20850	2510	22.04	23.50	1.400	-0.16	0.082	0.115
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 0	Full Power	20850	2510	22.04	23.50	1.400	-0.11	0.203	0.284
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 0	Full Power	20850	2510	22.04	23.50	1.400	-0.08	0.064	0.090
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 0	Full Power	20850	2510	21.49	23.00	1.416	0.09	0.109	0.154
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 0	Full Power	20850	2510	21.49	23.00	1.416	0.11	0.084	0.119
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 0	Full Power	20850	2510	21.49	23.00	1.416	0.03	0.206	0.292
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 0	Full Power	20850	2510	21.49	23.00	1.416	-0.02	0.067	0.095

<5GNR 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)
850MHz																			
16	N5	25M	BPSK	1	65	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.96	24.20	1.330	0.05	0.588	**0.782**
	N5	25M	BPSK	1	65	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.96	24.20	1.330	0	0.481	0.640
	N5	25M	BPSK	1	65	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.96	24.20	1.330	0.06	0.421	0.560
	N5	25M	BPSK	1	65	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.96	24.20	1.330	-0.01	0.378	0.503
	N5	25M	BPSK	64	32	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.95	24.20	1.334	-0.08	0.537	0.716
	N5	25M	BPSK	64	32	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.95	24.20	1.334	-0.11	0.459	0.612
	N5	25M	BPSK	64	32	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.95	24.20	1.334	0.16	0.412	0.549
	N5	25M	BPSK	64	32	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	22.95	24.20	1.334	-0.13	0.375	0.500
	N5	25M	BPSK	1	65	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.77	25.50	1.183	-0.03	0.171	0.202
	N5	25M	BPSK	1	65	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.77	25.50	1.183	0.06	0.103	0.122
	N5	25M	BPSK	1	65	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.77	25.50	1.183	-0.02	0.166	0.196
	N5	25M	BPSK	1	65	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.77	25.50	1.183	0.04	0.084	0.099
	N5	25M	BPSK	64	32	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.69	25.50	1.205	0.16	0.173	0.208
	N5	25M	BPSK	64	32	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.69	25.50	1.205	0.01	0.105	0.127
	N5	25M	BPSK	64	32	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.69	25.50	1.205	0.14	0.167	0.201
	N5	25M	BPSK	64	32	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.69	25.50	1.205	-0.01	0.086	0.104
1750MHz																			
	N66	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	349000	1745	16.56	17.50	1.242	0.11	0.811	1.007
	N66	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	349000	1745	16.56	17.50	1.242	0.06	0.675	0.838
	N66	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	349000	1745	16.56	17.50	1.242	-0.02	0.335	0.416
	N66	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	349000	1745	16.56	17.50	1.242	-0.13	0.411	0.510
17	N66	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	349000	1745	16.53	17.50	1.250	-0.02	0.843	**1.054**
	N66	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	349000	1745	16.53	17.50	1.250	0.06	0.701	0.876
	N66	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	349000	1745	16.53	17.50	1.250	0.16	0.357	0.446
	N66	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	349000	1745	16.53	17.50	1.250	0.16	0.429	0.536
	N66	40M	BPSK	216	0	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	349000	1745	16.51	17.50	1.256	0.13	0.801	1.006
	N66	40M	BPSK	216	0	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	349000	1745	16.51	17.50	1.256	-0.12	0.661	0.830
	N66	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Full Power	349000	1745	21.75	23.50	1.496	-0.01	0.550	0.823
	N66	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Full Power	349000	1745	21.75	23.50	1.496	-0.12	0.095	0.142
	N66	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Full Power	349000	1745	21.75	23.50	1.496	-0.07	0.287	0.429
	N66	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Full Power	349000	1745	21.75	23.50	1.496	-0.14	0.055	0.082
	N66	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Full Power	349000	1745	21.62	23.50	1.542	-0.11	0.675	1.041
	N66	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Full Power	349000	1745	21.62	23.50	1.542	0.05	0.116	0.179
	N66	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Full Power	349000	1745	21.62	23.50	1.542	0.04	0.407	0.627
	N66	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Full Power	349000	1745	21.62	23.50	1.542	-0.16	0.076	0.117
	N66	40M	BPSK	216	0	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Full Power	349000	1745	21.38	23.00	1.452	0.03	0.523	0.759
	N66	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.46	24.00	1.426	-0.04	0.054	0.077
	N66	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.46	24.00	1.426	0.07	0.019	0.027
	N66	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.46	24.00	1.426	-0.02	0.061	0.087
	N66	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.46	24.00	1.426	0.16	0.020	0.029
	N66	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.45	24.00	1.429	0.1	0.061	0.087
	N66	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.45	24.00	1.429	0.07	0.020	0.029
	N66	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.45	24.00	1.429	0.09	0.066	0.094
	N66	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.45	24.00	1.429	-0.14	0.023	0.033
	N66	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.09	23.50	1.384	-0.09	0.093	0.129
	N66	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.09	23.50	1.384	0.09	0.046	0.064
	N66	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.09	23.50	1.384	-0.02	0.085	0.118
	N66	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.09	23.50	1.384	0.05	0.045	0.062
	N66	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.08	23.50	1.387	-0.1	0.088	0.122
	N66	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.08	23.50	1.387	-0.12	0.042	0.058
	N66	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.08	23.50	1.387	-0.04	0.076	0.105
	N66	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.08	23.50	1.387	0.14	0.043	0.060

2600MHz																			
	N7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	19.12	20.00	1.225	-0.08	0.835	1.023
	N7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	19.12	20.00	1.225	0.07	0.713	0.873
	N7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	19.12	20.00	1.225	0.11	0.307	0.376
	N7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	19.12	20.00	1.225	-0.16	0.311	0.381
18	N7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	19.06	20.00	1.242	0.02	0.864	**1.073**
	N7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	19.06	20.00	1.242	0.01	0.735	0.913
	N7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	19.06	20.00	1.242	-0.11	0.320	0.397
	N7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	19.06	20.00	1.242	0.03	0.334	0.415
	N7	50M	BPSK	270	0	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	18.96	20.00	1.271	-0.15	0.803	1.020
	N7	50M	BPSK	270	0	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	18.96	20.00	1.271	0.13	0.689	0.875
	N7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	16.81	18.50	1.476	0.05	0.409	0.604
	N7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	16.81	18.50	1.476	-0.03	0.076	0.112
	N7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	16.81	18.50	1.476	0.09	0.205	0.303
	N7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	16.81	18.50	1.476	-0.12	0.042	0.062
	N7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	16.71	18.50	1.510	0.09	0.457	0.690
	N7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	16.71	18.50	1.510	0.01	0.087	0.131
	N7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	16.71	18.50	1.510	0.1	0.241	0.364
	N7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	16.71	18.50	1.510	-0.05	0.048	0.072
	N7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.53	25.00	1.403	0.09	0.149	0.209
	N7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.53	25.00	1.403	-0.16	0.043	0.060
	N7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.53	25.00	1.403	-0.1	0.076	0.107
	N7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.53	25.00	1.403	-0.05	0.073	0.102
	N7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.45	25.00	1.429	0.01	0.157	0.224
	N7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.45	25.00	1.429	0.1	0.050	0.071
	N7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.45	25.00	1.429	0.05	0.079	0.113
	N7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.45	25.00	1.429	0.16	0.074	0.106
	N7	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full Power	507000	2535	23.17	24.50	1.358	-0.05	0.145	0.197
	N7	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full Power	507000	2535	23.17	24.50	1.358	0.05	0.117	0.159
	N7	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full Power	507000	2535	23.17	24.50	1.358	-0.13	0.273	0.371
	N7	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full Power	507000	2535	23.17	24.50	1.358	0.15	0.086	0.117
	N7	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full Power	507000	2535	23.06	24.50	1.393	-0.1	0.155	0.216
	N7	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full Power	507000	2535	23.06	24.50	1.393	-0.14	0.119	0.166
	N7	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full Power	507000	2535	23.06	24.50	1.393	0.04	0.281	0.391
	N7	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full Power	507000	2535	23.06	24.50	1.393	-0.07	0.089	0.124
	N38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	519000	2595	18.66	19.50	1.213	-0.16	0.743	0.902
	N38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	519000	2595	18.66	19.50	1.213	0.14	0.586	0.711
	N38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	DSI 0	Reduced	519000	2595	18.66	19.50	1.213	-0.06	0.307	0.373
	N38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	DSI 0	Reduced	519000	2595	18.66	19.50	1.213	0.09	0.314	0.381
19	N38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	519000	2595	18.61	19.50	1.227	0.03	0.789	**0.968**
	N38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	519000	2595	18.61	19.50	1.227	-0.13	0.599	0.735
	N38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 1	DSI 0	Reduced	519000	2595	18.61	19.50	1.227	0.13	0.347	0.426
	N38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 1	DSI 0	Reduced	519000	2595	18.61	19.50	1.227	-0.11	0.352	0.432
	N38	40M	BPSK	100	0	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	519000	2595	18.58	19.50	1.236	-0.09	0.733	0.906
	N38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.05	17.50	1.396	0.07	0.413	0.577
	N38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.05	17.50	1.396	-0.05	0.089	0.124
	N38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.05	17.50	1.396	-0.04	0.240	0.335
	N38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.05	17.50	1.396	0.09	0.055	0.077
	N38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.03	17.50	1.403	0.06	0.448	0.628
	N38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.03	17.50	1.403	-0.03	0.094	0.132
	N38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.03	17.50	1.403	-0.12	0.247	0.346
	N38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.03	17.50	1.403	-0.11	0.060	0.084
	N38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full Power	519000	2595	24.03	25.50	1.403	-0.16	0.156	0.219
	N38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full Power	519000	2595	24.03	25.50	1.403	-0.03	0.052	0.073
	N38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full Power	519000	2595	24.03	25.50	1.403	0.13	0.082	0.115
	N38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full Power	519000	2595	24.03	25.50	1.403	0.14	0.079	0.111

	N38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full Power	519000	2595	23.92	25.50	1.439	0.03	0.150	0.216
	N38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full Power	519000	2595	23.92	25.50	1.439	-0.15	0.047	0.068
	N38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full Power	519000	2595	23.92	25.50	1.439	0.14	0.076	0.109
	N38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full Power	519000	2595	23.92	25.50	1.439	-0.03	0.072	0.104
	N38	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full Power	519000	2595	23.19	24.50	1.352	-0.15	0.142	0.192
	N38	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full Power	519000	2595	23.19	24.50	1.352	-0.15	0.095	0.128
	N38	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full Power	519000	2595	23.19	24.50	1.352	0.09	0.291	0.393
	N38	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full Power	519000	2595	23.19	24.50	1.352	0.02	0.089	0.120
	N38	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full Power	519000	2595	23.09	24.50	1.384	0.08	0.148	0.205
	N38	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full Power	519000	2595	23.09	24.50	1.384	-0.05	0.099	0.137
	N38	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full Power	519000	2595	23.09	24.50	1.384	0.08	0.307	0.425
	N38	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full Power	519000	2595	23.09	24.50	1.384	-0.04	0.092	0.127
	N41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	19.14	20.00	1.219	0.06	0.823	1.003
	N41	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	19.14	20.00	1.219	-0.09	0.566	0.690
	N41	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	19.14	20.00	1.219	-0.01	0.342	0.417
	N41	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	19.14	20.00	1.219	-0.16	0.389	0.474
20	N41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	19.08	20.00	1.236	0.04	0.859	**1.062**
	N41	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	19.08	20.00	1.236	-0.08	0.611	0.755
	N41	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	19.08	20.00	1.236	0.09	0.389	0.481
	N41	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	19.08	20.00	1.236	-0.04	0.412	0.509
	N41	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	19.05	20.00	1.245	-0.13	0.809	1.007
	N41	100M	BPSK	270	0	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	19.05	20.00	1.245	0.08	0.587	0.731
	N41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	16.50	18.00	1.413	0.02	0.455	0.643
	N41	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	16.50	18.00	1.413	0.01	0.079	0.112
	N41	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	16.50	18.00	1.413	-0.11	0.220	0.311
	N41	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	16.50	18.00	1.413	-0.06	0.045	0.064
	N41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	16.44	18.00	1.432	0.08	0.542	0.776
	N41	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	16.44	18.00	1.432	-0.14	0.105	0.150
	N41	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	16.44	18.00	1.432	0.16	0.276	0.395
	N41	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	16.44	18.00	1.432	0.1	0.060	0.086
	N41	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	16.41	18.00	1.442	0.08	0.525	0.757
	N41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.12	25.50	1.374	0.04	0.162	0.223
	N41	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.12	25.50	1.374	0.01	0.051	0.070
	N41	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.12	25.50	1.374	0.12	0.082	0.113
	N41	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.12	25.50	1.374	-0.05	0.078	0.107
	N41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.10	25.50	1.380	0.14	0.154	0.213
	N41	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.10	25.50	1.380	-0.06	0.044	0.061
	N41	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.10	25.50	1.380	-0.1	0.080	0.110
	N41	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.10	25.50	1.380	0.01	0.075	0.104
	N41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	23.26	24.50	1.330	0.1	0.145	0.193
	N41	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	23.26	24.50	1.330	-0.03	0.094	0.125
	N41	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	23.26	24.50	1.330	0.07	0.288	0.383
	N41	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	23.26	24.50	1.330	-0.02	0.083	0.110
	N41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	23.15	24.50	1.365	0.16	0.147	0.201
	N41	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	23.15	24.50	1.365	0.11	0.098	0.134
	N41	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	23.15	24.50	1.365	0.08	0.293	0.400
	N41	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	23.15	24.50	1.365	-0.13	0.093	0.127

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)
3500-4000MHz																			
	N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.02	19.50	1.406	0.01	0.682	0.959
	N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.02	19.50	1.406	-0.1	0.203	0.285
	N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.02	19.50	1.406	-0.06	0.553	0.778
	N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.02	19.50	1.406	-0.1	0.107	0.150
	N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.01	19.50	1.409	0.09	0.710	1.001
	N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.01	19.50	1.409	0.02	0.205	0.289
	N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.01	19.50	1.409	0.15	0.587	0.827
	N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.01	19.50	1.409	0.08	0.123	0.173
	N77	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	17.99	19.50	1.416	0.09	0.671	0.950
	N77	100M	BPSK	270	0	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	17.99	19.50	1.416	0.07	0.564	0.799
	N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	18.18	19.50	1.355	0.15	0.545	0.739
	N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	18.18	19.50	1.355	-0.14	0.185	0.251
	N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	18.18	19.50	1.355	-0.13	0.474	0.642
	N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	18.18	19.50	1.355	-0.09	0.083	0.112
	N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	18.09	19.50	1.384	-0.09	0.509	0.704
	N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	18.09	19.50	1.384	-0.05	0.174	0.241
	N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	18.09	19.50	1.384	-0.02	0.439	0.607
	N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	18.09	19.50	1.384	0.02	0.076	0.105
	N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.95	17.50	1.429	0.15	0.312	0.446
	N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.95	17.50	1.429	-0.15	0.363	0.519
	N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.95	17.50	1.429	-0.11	0.403	0.576
	N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.95	17.50	1.429	-0.12	0.488	0.697
	N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.94	17.50	1.432	0.11	0.363	0.520
	N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.94	17.50	1.432	0.12	0.385	0.551
	N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.94	17.50	1.432	-0.15	0.469	0.672
	N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.94	17.50	1.432	0.06	0.551	0.789
	N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	656000	3840	16.16	17.50	1.361	-0.1	0.378	0.515
	N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	656000	3840	16.16	17.50	1.361	-0.07	0.505	0.688
	N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	656000	3840	16.16	17.50	1.361	0.13	0.583	0.794
	N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	656000	3840	16.16	17.50	1.361	0.07	0.751	1.022
	N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	656000	3840	16.14	17.50	1.368	0.06	0.360	0.492
	N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	656000	3840	16.14	17.50	1.368	0.11	0.478	0.654
	N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	656000	3840	16.14	17.50	1.368	0.09	0.500	0.684
	N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	656000	3840	16.14	17.50	1.368	0.13	0.688	0.941
	N77	100M	BPSK	270	0	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	656000	3840	16.10	17.50	1.380	0.07	0.666	0.919
	N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.15	16.00	1.216	-0.14	0.141	0.171
	N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.15	16.00	1.216	0.15	0.097	0.118
	N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.15	16.00	1.216	0.05	0.443	0.539
	N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.15	16.00	1.216	0.05	0.227	0.276
	N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.13	16.00	1.222	-0.14	0.154	0.188
	N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.13	16.00	1.222	0.11	0.105	0.128
	N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.13	16.00	1.222	-0.02	0.491	0.600
	N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.13	16.00	1.222	-0.16	0.263	0.321
	N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	15.20	16.00	1.202	-0.04	0.151	0.182
	N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	15.20	16.00	1.202	0.1	0.127	0.153
	N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	15.20	16.00	1.202	0.01	0.617	0.742
	N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	15.20	16.00	1.202	-0.02	0.346	0.416
	N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	15.15	16.00	1.216	-0.06	0.142	0.173
	N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	15.15	16.00	1.216	0.16	0.117	0.142
	N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	15.15	16.00	1.216	-0.16	0.594	0.722
	N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	15.15	16.00	1.216	0.01	0.321	0.390
	N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	19.03	20.50	1.403	0.07	0.488	0.685

	N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	19.03	20.50	1.403	0	0.200	0.281
	N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	19.03	20.50	1.403	-0.13	0.219	0.307
	N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	19.03	20.50	1.403	0.01	0.123	0.173
	N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	18.95	20.50	1.429	0.04	0.541	0.773
	N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	18.95	20.50	1.429	0.12	0.215	0.307
	N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	18.95	20.50	1.429	-0.09	0.245	0.350
	N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	18.95	20.50	1.429	0.08	0.149	0.213
21	N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	19.08	20.50	1.387	0.08	0.751	**1.041**
	N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	19.08	20.50	1.387	0.07	0.277	0.384
	N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	19.08	20.50	1.387	-0.04	0.174	0.241
	N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	19.08	20.50	1.387	-0.09	0.150	0.208
	N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	19.06	20.50	1.393	0.16	0.553	0.770
	N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	19.06	20.50	1.393	0.11	0.183	0.255
	N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	19.06	20.50	1.393	-0.1	0.114	0.159
	N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	19.06	20.50	1.393	-0.15	0.106	0.148
	N77	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	19.03	20.50	1.403	0.09	0.601	0.843
	N78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.48	19.50	1.265	0.06	0.551	0.697
	N78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.48	19.50	1.265	-0.04	0.174	0.220
	N78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.48	19.50	1.265	0.12	0.505	0.639
	N78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.48	19.50	1.265	-0.02	0.099	0.125
	N78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.45	19.50	1.274	-0.14	0.579	0.737
	N78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.45	19.50	1.274	0.09	0.186	0.237
	N78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.45	19.50	1.274	0.15	0.533	0.679
	N78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	18.45	19.50	1.274	-0.11	0.103	0.131
	N78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	18.66	19.50	1.213	-0.07	0.334	0.405
	N78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	18.66	19.50	1.213	-0.13	0.128	0.155
	N78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	18.66	19.50	1.213	-0.14	0.378	0.459
	N78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	18.66	19.50	1.213	0.1	0.064	0.078
	N78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	18.57	19.50	1.239	0.08	0.356	0.441
	N78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	18.57	19.50	1.239	-0.01	0.133	0.165
	N78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	18.57	19.50	1.239	0.1	0.385	0.477
	N78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	18.57	19.50	1.239	-0.03	0.071	0.088
	N78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.54	17.00	1.400	0.1	0.274	0.383
	N78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.54	17.00	1.400	0.1	0.308	0.431
	N78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.54	17.00	1.400	-0.15	0.346	0.484
	N78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.54	17.00	1.400	-0.12	0.459	0.642
	N78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.50	17.00	1.413	0.11	0.309	0.436
	N78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.50	17.00	1.413	0.06	0.345	0.487
	N78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.50	17.00	1.413	-0.14	0.423	0.598
	N78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	15.50	17.00	1.413	0.08	0.517	0.730
	N78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	650000	3750	15.59	17.00	1.384	0.13	0.377	0.522
	N78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	650000	3750	15.59	17.00	1.384	0.05	0.478	0.661
	N78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	650000	3750	15.59	17.00	1.384	0.11	0.568	0.786
22	N78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	650000	3750	15.59	17.00	1.384	0.07	0.719	**0.995**
	N78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	650000	3750	15.55	17.00	1.396	-0.1	0.356	0.497
	N78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	650000	3750	15.55	17.00	1.396	0.07	0.433	0.605
	N78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	650000	3750	15.55	17.00	1.396	-0.05	0.551	0.769
	N78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	650000	3750	15.55	17.00	1.396	0.06	0.693	0.968
	N78	100M	BPSK	270	0	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	650000	3750	15.48	17.00	1.419	0.09	0.669	0.949
	N78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.06	16.00	1.242	-0.14	0.127	0.158
	N78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.06	16.00	1.242	0.04	0.094	0.117
	N78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.06	16.00	1.242	-0.03	0.396	0.492
	N78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.06	16.00	1.242	0.03	0.212	0.263
	N78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.03	16.00	1.250	0.14	0.132	0.165
	N78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.03	16.00	1.250	0.01	0.097	0.121
	N78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.03	16.00	1.250	-0.09	0.425	0.531

	N78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	15.03	16.00	1.250	0.12	0.241	0.301
	N78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	15.05	16.00	1.245	0.08	0.151	0.188
	N78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	15.05	16.00	1.245	-0.02	0.115	0.143
	N78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	15.05	16.00	1.245	-0.06	0.552	0.687
	N78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	15.05	16.00	1.245	-0.14	0.242	0.301
	N78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	15.01	16.00	1.256	-0.03	0.157	0.197
	N78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	15.01	16.00	1.256	0.13	0.117	0.147
	N78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	15.01	16.00	1.256	0.08	0.565	0.710
	N78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	15.01	16.00	1.256	-0.08	0.321	0.403
	N78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	18.02	19.50	1.406	-0.07	0.330	0.464
	N78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	18.02	19.50	1.406	0.01	0.122	0.172
	N78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	18.02	19.50	1.406	-0.02	0.183	0.257
	N78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	18.02	19.50	1.406	0.07	0.075	0.105
	N78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	17.95	19.50	1.429	0.06	0.386	0.552
	N78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	17.95	19.50	1.429	-0.04	0.131	0.187
	N78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	17.95	19.50	1.429	0.14	0.208	0.297
	N78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	17.95	19.50	1.429	-0.01	0.088	0.126
	N78	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	18.20	19.50	1.349	0.09	0.590	0.796
	N78	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	18.20	19.50	1.349	-0.13	0.251	0.339
	N78	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	18.20	19.50	1.349	0.05	0.179	0.241
	N78	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	18.20	19.50	1.349	0.04	0.136	0.183
	N78	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	18.14	19.50	1.368	0.09	0.502	0.687
	N78	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	18.14	19.50	1.368	-0.04	0.199	0.272
	N78	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	18.14	19.50	1.368	-0.06	0.176	0.241
	N78	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	18.14	19.50	1.368	-0.02	0.131	0.179

Inter-band CA & EN-DC NR Main PA

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)
835MHz																			
	N5_Main PA	25M	BPSK	1	65	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	21.47	22.70	1.327	-0.02	0.412	0.547
	N5_Main PA	25M	BPSK	1	65	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	21.47	22.70	1.327	0.06	0.341	0.453
	N5_Main PA	25M	BPSK	1	65	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	21.47	22.70	1.327	0.08	0.298	0.396
	N5_Main PA	25M	BPSK	1	65	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	21.47	22.70	1.327	0.02	0.268	0.356
	N5_Main PA	25M	BPSK	64	32	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	21.43	22.70	1.340	0.02	0.355	0.476
	N5_Main PA	25M	BPSK	64	32	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	21.43	22.70	1.340	0.13	0.325	0.435
	N5_Main PA	25M	BPSK	64	32	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	167300	836.5	21.43	22.70	1.340	-0.16	0.292	0.391
	N5_Main PA	25M	BPSK	64	32	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	167300	836.5	21.43	22.70	1.340	-0.15	0.265	0.355
	N5_Main PA	25M	BPSK	1	65	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.77	25.50	1.183	-0.03	0.171	0.202
	N5_Main PA	25M	BPSK	1	65	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.77	25.50	1.183	0.06	0.103	0.122
	N5_Main PA	25M	BPSK	1	65	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.77	25.50	1.183	-0.02	0.166	0.196
	N5_Main PA	25M	BPSK	1	65	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.77	25.50	1.183	0.04	0.084	0.099
	N5_Main PA	25M	BPSK	64	32	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.69	25.50	1.205	0.16	0.173	0.208
	N5_Main PA	25M	BPSK	64	32	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.69	25.50	1.205	0.01	0.105	0.127
	N5_Main PA	25M	BPSK	64	32	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.69	25.50	1.205	0.14	0.167	0.201
	N5_Main PA	25M	BPSK	64	32	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	167300	836.5	24.69	25.50	1.205	-0.01	0.086	0.104
1750MHz																			
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	349000	1745	13.61	14.50	1.227	-0.05	0.406	0.498
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	349000	1745	13.61	14.50	1.227	0.07	0.338	0.415
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	349000	1745	13.61	14.50	1.227	0.02	0.168	0.206
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	349000	1745	13.61	14.50	1.227	-0.09	0.206	0.253
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	349000	1745	13.50	14.50	1.259	0.13	0.423	0.533
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	349000	1745	13.50	14.50	1.259	0.07	0.351	0.442
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	349000	1745	13.50	14.50	1.259	0.01	0.179	0.225
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	349000	1745	13.50	14.50	1.259	0.02	0.215	0.271
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	349000	1745	18.79	20.50	1.483	0.16	0.276	0.409

	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	349000	1745	18.79	20.50	1.483	0.05	0.048	0.071
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	349000	1745	18.79	20.50	1.483	-0.15	0.144	0.213
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	349000	1745	18.79	20.50	1.483	-0.08	0.028	0.042
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	349000	1745	18.75	20.50	1.496	0.07	0.338	0.506
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	349000	1745	18.75	20.50	1.496	0.04	0.058	0.087
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	349000	1745	18.75	20.50	1.496	-0.05	0.204	0.305
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	349000	1745	18.75	20.50	1.496	-0.06	0.038	0.057
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.46	24.00	1.426	-0.04	0.054	0.077
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.46	24.00	1.426	0.07	0.019	0.027
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.46	24.00	1.426	-0.02	0.061	0.087
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.46	24.00	1.426	0.16	0.020	0.029
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.45	24.00	1.429	0.1	0.061	0.087
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.45	24.00	1.429	0.07	0.020	0.029
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.45	24.00	1.429	0.09	0.066	0.094
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	349000	1745	22.45	24.00	1.429	-0.14	0.023	0.033
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.09	23.50	1.384	-0.09	0.093	0.129
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.09	23.50	1.384	0.09	0.046	0.064
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.09	23.50	1.384	-0.02	0.085	0.118
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.09	23.50	1.384	0.05	0.045	0.062
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.08	23.50	1.387	-0.1	0.088	0.122
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.08	23.50	1.387	-0.12	0.042	0.058
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.08	23.50	1.387	-0.04	0.076	0.105
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	22.08	23.50	1.387	0.14	0.043	0.060
2600MHz																			
	N7_Main PA	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	16.15	17.00	1.216	0.06	0.418	0.508
	N7_Main PA	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	16.15	17.00	1.216	-0.16	0.357	0.434
	N7_Main PA	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	16.15	17.00	1.216	0.03	0.154	0.187
	N7_Main PA	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	16.15	17.00	1.216	-0.04	0.156	0.190
	N7_Main PA	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	16.10	17.00	1.230	-0.05	0.433	0.533
	N7_Main PA	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	16.10	17.00	1.230	-0.09	0.368	0.453
	N7_Main PA	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	16.10	17.00	1.230	0.16	0.160	0.197
	N7_Main PA	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	16.10	17.00	1.230	-0.04	0.167	0.205
	N7_Main PA	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.53	25.00	1.403	0.09	0.149	0.209
	N7_Main PA	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.53	25.00	1.403	-0.16	0.043	0.060
	N7_Main PA	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.53	25.00	1.403	-0.1	0.076	0.107
	N7_Main PA	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.53	25.00	1.403	-0.05	0.073	0.102
	N7_Main PA	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.45	25.00	1.429	0.01	0.157	0.224
	N7_Main PA	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.45	25.00	1.429	0.1	0.050	0.071
	N7_Main PA	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.45	25.00	1.429	0.05	0.079	0.113
	N7_Main PA	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	23.45	25.00	1.429	0.16	0.074	0.106
	N41_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	16.14	17.00	1.219	-0.03	0.412	0.502
	N41_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	16.14	17.00	1.219	-0.06	0.284	0.346
	N41_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	16.14	17.00	1.219	-0.05	0.171	0.208
	N41_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	16.14	17.00	1.219	0.04	0.195	0.238
	N41_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	16.09	17.00	1.233	0.12	0.431	0.531
	N41_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	16.09	17.00	1.233	-0.02	0.306	0.377
	N41_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	16.09	17.00	1.233	-0.09	0.195	0.240
	N41_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	16.09	17.00	1.233	0.05	0.206	0.254
	N41_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.12	25.50	1.374	0.04	0.162	0.223
	N41_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.12	25.50	1.374	0.01	0.051	0.070
	N41_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.12	25.50	1.374	0.12	0.082	0.113
	N41_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.12	25.50	1.374	-0.05	0.078	0.107
	N41_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.10	25.50	1.380	0.14	0.154	0.213
	N41_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.10	25.50	1.380	-0.06	0.044	0.061
	N41_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.10	25.50	1.380	-0.1	0.080	0.110
	N41_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	24.10	25.50	1.380	0.01	0.075	0.104

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)
3500-3900MHz																			
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.03	16.50	1.403	-0.07	0.342	0.480
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.03	16.50	1.403	-0.01	0.102	0.143
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.03	16.50	1.403	-0.15	0.277	0.389
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	15.03	16.50	1.403	-0.08	0.054	0.076
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	14.97	16.50	1.422	-0.11	0.356	0.506
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	14.97	16.50	1.422	-0.14	0.103	0.146
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	14.97	16.50	1.422	0.04	0.294	0.418
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	14.97	16.50	1.422	0	0.062	0.088
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.16	16.50	1.361	-0.02	0.273	0.372
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.16	16.50	1.361	-0.09	0.093	0.127
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.16	16.50	1.361	0.04	0.238	0.324
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.16	16.50	1.361	0.02	0.042	0.057
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.06	16.50	1.393	0.16	0.255	0.355
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.06	16.50	1.393	0.05	0.087	0.121
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.06	16.50	1.393	0.07	0.220	0.306
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	656000	3840	15.06	16.50	1.393	-0.1	0.038	0.053
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	12.95	14.50	1.429	-0.08	0.156	0.223
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	12.95	14.50	1.429	0.1	0.182	0.260
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	12.95	14.50	1.429	-0.08	0.202	0.289
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	12.95	14.50	1.429	0.02	0.245	0.350
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	12.93	14.50	1.435	-0.06	0.182	0.261
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	12.93	14.50	1.435	-0.1	0.193	0.277
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	12.93	14.50	1.435	0.1	0.235	0.337
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	12.93	14.50	1.435	-0.11	0.276	0.396
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	656000	3840	13.17	14.50	1.358	0.04	0.189	0.257
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	656000	3840	13.17	14.50	1.358	0.04	0.253	0.344
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	656000	3840	13.17	14.50	1.358	-0.13	0.292	0.397
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	656000	3840	13.17	14.50	1.358	-0.03	0.376	0.511
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	656000	3840	13.14	14.50	1.368	-0.08	0.180	0.246
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	656000	3840	13.14	14.50	1.368	0.04	0.240	0.328
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	656000	3840	13.14	14.50	1.368	0.04	0.251	0.343
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	656000	3840	13.14	14.50	1.368	0.09	0.345	0.472
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.63	14.50	1.222	0.15	0.100	0.122
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.63	14.50	1.222	0.16	0.069	0.084
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.63	14.50	1.222	-0.05	0.314	0.384
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.63	14.50	1.222	0.04	0.161	0.197
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.62	14.50	1.225	0.08	0.109	0.133
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.62	14.50	1.225	-0.01	0.074	0.091
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.62	14.50	1.225	0.15	0.348	0.426
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.62	14.50	1.225	0	0.186	0.228
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	13.67	14.50	1.211	0.01	0.107	0.130
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	13.67	14.50	1.211	-0.15	0.090	0.109
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	13.67	14.50	1.211	0.04	0.437	0.529
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	13.67	14.50	1.211	0.04	0.245	0.297
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	13.65	14.50	1.216	0.16	0.101	0.123
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	13.65	14.50	1.216	-0.09	0.083	0.101
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	656000	3840	13.65	14.50	1.216	-0.15	0.421	0.512
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	656000	3840	13.65	14.50	1.216	-0.06	0.227	0.276
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.99	17.50	1.416	0.09	0.245	0.347
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.99	17.50	1.416	0.12	0.100	0.142
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.99	17.50	1.416	-0.03	0.110	0.156
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.99	17.50	1.416	0.02	0.062	0.088

	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.94	17.50	1.432	0	0.271	0.388
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.94	17.50	1.432	-0.06	0.108	0.155
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.94	17.50	1.432	0.01	0.123	0.176
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.94	17.50	1.432	0.14	0.075	0.107
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	16.06	17.50	1.393	-0.04	0.376	0.524
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	16.06	17.50	1.393	-0.04	0.139	0.194
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	16.06	17.50	1.393	-0.04	0.087	0.121
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	16.06	17.50	1.393	-0.04	0.075	0.104
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	16.01	17.50	1.409	0.05	0.277	0.390
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	16.01	17.50	1.409	-0.01	0.092	0.130
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	656000	3840	16.01	17.50	1.409	0.11	0.057	0.080
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	656000	3840	16.01	17.50	1.409	0.14	0.053	0.075
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	16.95	18.00	1.274	-0.16	0.390	0.497
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	16.95	18.00	1.274	-0.06	0.123	0.157
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	16.95	18.00	1.274	0.11	0.358	0.456
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	16.95	18.00	1.274	-0.09	0.070	0.089
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	16.92	18.00	1.282	0.07	0.410	0.526
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	16.92	18.00	1.282	0.15	0.132	0.169
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	16.92	18.00	1.282	0	0.377	0.483
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	633334	3500.01	16.92	18.00	1.282	-0.16	0.073	0.094
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	17.15	18.00	1.216	-0.06	0.236	0.287
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	17.15	18.00	1.216	-0.09	0.091	0.111
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	17.15	18.00	1.216	-0.02	0.268	0.326
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	17.15	18.00	1.216	0.16	0.045	0.055
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	17.11	18.00	1.227	0.08	0.252	0.309
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	17.11	18.00	1.227	0.06	0.094	0.115
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 0	Reduced	650000	3750	17.11	18.00	1.227	0.16	0.273	0.335
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 0	Reduced	650000	3750	17.11	18.00	1.227	-0.04	0.050	0.061
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	13.04	14.50	1.400	-0.08	0.154	0.216
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	13.04	14.50	1.400	-0.1	0.173	0.242
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	13.04	14.50	1.400	0	0.195	0.273
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	13.04	14.50	1.400	-0.01	0.258	0.361
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	13.01	14.50	1.409	-0.01	0.174	0.245
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	13.01	14.50	1.409	-0.01	0.194	0.273
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	13.01	14.50	1.409	-0.13	0.238	0.335
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	633334	3500.01	13.01	14.50	1.409	-0.16	0.291	0.410
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	650000	3750	13.06	14.50	1.393	-0.01	0.212	0.295
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	650000	3750	13.06	14.50	1.393	0.15	0.269	0.375
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	650000	3750	13.06	14.50	1.393	0.1	0.319	0.444
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	650000	3750	13.06	14.50	1.393	-0.1	0.388	0.541
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI 0	Reduced	650000	3750	13.03	14.50	1.403	-0.01	0.200	0.281
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI 0	Reduced	650000	3750	13.03	14.50	1.403	-0.12	0.243	0.341
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI 0	Reduced	650000	3750	13.03	14.50	1.403	-0.08	0.310	0.435
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI 0	Reduced	650000	3750	13.03	14.50	1.403	0.02	0.390	0.547
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.53	14.50	1.250	0.1	0.090	0.113
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.53	14.50	1.250	-0.07	0.067	0.084
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.53	14.50	1.250	-0.03	0.280	0.350
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.53	14.50	1.250	-0.04	0.150	0.188
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.51	14.50	1.256	0.04	0.093	0.117
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.51	14.50	1.256	0.09	0.069	0.087
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.51	14.50	1.256	0.03	0.301	0.378
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	633334	3500.01	13.51	14.50	1.256	-0.13	0.171	0.215
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.53	14.50	1.250	-0.11	0.107	0.134
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.53	14.50	1.250	-0.16	0.081	0.101
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.53	14.50	1.250	0.08	0.391	0.489
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.53	14.50	1.250	0.13	0.171	0.214

	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.51	14.50	1.256	-0.03	0.111	0.139
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.51	14.50	1.256	0.02	0.083	0.104
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.51	14.50	1.256	0.06	0.400	0.502
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI 0	Reduced	650000	3750	13.51	14.50	1.256	-0.04	0.227	0.285
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	16.00	17.50	1.413	0.06	0.208	0.294
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	16.00	17.50	1.413	-0.08	0.077	0.109
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	16.00	17.50	1.413	-0.11	0.115	0.162
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	16.00	17.50	1.413	-0.1	0.047	0.066
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.95	17.50	1.429	-0.1	0.244	0.349
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.95	17.50	1.429	0.05	0.083	0.119
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.95	17.50	1.429	0.09	0.131	0.187
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	633334	3500.01	15.95	17.50	1.429	0.14	0.056	0.080
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	16.21	17.50	1.346	-0.13	0.372	0.501
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	16.21	17.50	1.346	-0.05	0.158	0.213
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	16.21	17.50	1.346	-0.09	0.113	0.152
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	16.21	17.50	1.346	0.05	0.086	0.116
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	16.18	17.50	1.355	0.08	0.317	0.430
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	16.18	17.50	1.355	-0.01	0.126	0.171
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI 0	Reduced	650000	3750	16.18	17.50	1.355	-0.03	0.111	0.150
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI 0	Reduced	650000	3750	16.18	17.50	1.355	-0.06	0.083	0.112

Inter-band CA & EN-DC NR Other PA

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)
1750MHz																			
	N66_Other PA	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Full Power	349000	1745	22.57	24.00	1.390	0.04	0.144	0.200
	N66_Other PA	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Full Power	349000	1745	22.57	24.00	1.390	0.11	0.041	0.057
	N66_Other PA	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Full Power	349000	1745	22.57	24.00	1.390	-0.05	0.078	0.108
	N66_Other PA	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Full Power	349000	1745	22.57	24.00	1.390	-0.05	0.016	0.022
	N66_Other PA	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Full Power	349000	1745	22.55	24.00	1.396	0.01	0.129	0.180
	N66_Other PA	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Full Power	349000	1745	22.55	24.00	1.396	-0.09	0.032	0.045
	N66_Other PA	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Full Power	349000	1745	22.55	24.00	1.396	0.05	0.071	0.099
	N66_Other PA	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Full Power	349000	1745	22.55	24.00	1.396	0.02	0.014	0.020
	N66_Other PA	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	23.62	24.50	1.225	0.16	0.023	0.028
	N66_Other PA	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	23.62	24.50	1.225	0.08	0.016	0.020
	N66_Other PA	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	23.62	24.50	1.225	-0.04	0.031	0.038
	N66_Other PA	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	23.62	24.50	1.225	0.04	0.008	0.010
	N66_Other PA	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	23.61	24.50	1.227	0.06	0.020	0.025
	N66_Other PA	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	23.61	24.50	1.227	-0.03	0.015	0.018
	N66_Other PA	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full Power	349000	1745	23.61	24.50	1.227	0.02	0.028	0.034
	N66_Other PA	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full Power	349000	1745	23.61	24.50	1.227	-0.15	0.005	0.006
2600MHz																			
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	14.03	15.50	1.403	0.13	0.362	0.508
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	14.03	15.50	1.403	0.01	0.341	0.478
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	14.03	15.50	1.403	-0.01	0.157	0.220
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	14.03	15.50	1.403	0.03	0.160	0.224
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	13.99	15.50	1.416	0.07	0.372	0.527
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	13.99	15.50	1.416	-0.06	0.353	0.500
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 1	DSI 0	Reduced	507000	2535	13.99	15.50	1.416	0.1	0.162	0.229
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 1	DSI 0	Reduced	507000	2535	13.99	15.50	1.416	-0.13	0.171	0.242
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	18.79	19.70	1.233	0.08	0.265	0.327
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	18.79	19.70	1.233	0.16	0.053	0.065
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	18.79	19.70	1.233	0.14	0.125	0.154
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	18.79	19.70	1.233	0.1	0.031	0.038
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	18.77	19.70	1.239	-0.01	0.289	0.358
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	18.77	19.70	1.239	-0.09	0.057	0.071

	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 3	DSI 0	Reduced	507000	2535	18.77	19.70	1.239	-0.14	0.135	0.167
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 3	DSI 0	Reduced	507000	2535	18.77	19.70	1.239	0.03	0.032	0.040
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	22.69	24.00	1.352	-0.04	0.094	0.127
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	22.69	24.00	1.352	-0.14	0.036	0.049
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	22.69	24.00	1.352	-0.02	0.057	0.077
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	22.69	24.00	1.352	0.13	0.023	0.031
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	22.67	24.00	1.358	0.07	0.122	0.166
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	22.67	24.00	1.358	0.13	0.042	0.057
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 0	DSI 0	Full Power	507000	2535	22.67	24.00	1.358	-0.15	0.067	0.091
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 0	DSI 0	Full Power	507000	2535	22.67	24.00	1.358	-0.08	0.032	0.043
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full Power	507000	2535	24.61	25.50	1.227	0.04	0.175	0.215
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full Power	507000	2535	24.61	25.50	1.227	-0.08	0.140	0.172
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full Power	507000	2535	24.61	25.50	1.227	-0.03	0.358	0.439
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full Power	507000	2535	24.61	25.50	1.227	0.14	0.111	0.136
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Cheek	0mm	Ant 2	DSI 0	Full Power	507000	2535	24.58	25.50	1.236	-0.11	0.199	0.246
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Tilted	0mm	Ant 2	DSI 0	Full Power	507000	2535	24.58	25.50	1.236	-0.11	0.153	0.189
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Cheek	0mm	Ant 2	DSI 0	Full Power	507000	2535	24.58	25.50	1.236	-0.01	0.387	0.478
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Tilted	0mm	Ant 2	DSI 0	Full Power	507000	2535	24.58	25.50	1.236	-0.06	0.129	0.159
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	519000	2595	14.50	16.00	1.413	0	0.310	0.438
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	519000	2595	14.50	16.00	1.413	0.12	0.301	0.425
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	DSI 0	Reduced	519000	2595	14.50	16.00	1.413	0.01	0.140	0.198
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	DSI 0	Reduced	519000	2595	14.50	16.00	1.413	-0.16	0.154	0.218
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	519000	2595	14.48	16.00	1.419	-0.1	0.339	0.481
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	519000	2595	14.48	16.00	1.419	0.02	0.316	0.448
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 1	DSI 0	Reduced	519000	2595	14.48	16.00	1.419	-0.01	0.151	0.214
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 1	DSI 0	Reduced	519000	2595	14.48	16.00	1.419	-0.05	0.166	0.236
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.12	17.20	1.282	0.14	0.349	0.448
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.12	17.20	1.282	0.16	0.075	0.096
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.12	17.20	1.282	0.09	0.162	0.208
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.12	17.20	1.282	0.14	0.044	0.056
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.08	17.20	1.294	-0.04	0.406	0.525
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.08	17.20	1.294	0.12	0.079	0.102
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.08	17.20	1.294	0.15	0.174	0.225
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	519000	2595	16.08	17.20	1.294	-0.14	0.045	0.058
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full Power	519000	2595	22.98	24.50	1.419	0.02	0.100	0.142
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full Power	519000	2595	22.98	24.50	1.419	0.1	0.042	0.060
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full Power	519000	2595	22.98	24.50	1.419	-0.11	0.070	0.099
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full Power	519000	2595	22.98	24.50	1.419	0.08	0.055	0.078
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full Power	519000	2595	22.79	24.50	1.483	0.04	0.108	0.160
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full Power	519000	2595	22.79	24.50	1.483	0.01	0.045	0.067
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full Power	519000	2595	22.79	24.50	1.483	0.04	0.076	0.113
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full Power	519000	2595	22.79	24.50	1.483	-0.09	0.060	0.089
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full Power	519000	2595	24.35	25.50	1.303	-0.03	0.195	0.254
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full Power	519000	2595	24.35	25.50	1.303	0.06	0.158	0.206
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full Power	519000	2595	24.35	25.50	1.303	-0.12	0.366	0.477
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full Power	519000	2595	24.35	25.50	1.303	-0.07	0.127	0.166
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full Power	519000	2595	24.18	25.50	1.355	0.16	0.202	0.274
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full Power	519000	2595	24.18	25.50	1.355	0.16	0.167	0.226
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full Power	519000	2595	24.18	25.50	1.355	-0.02	0.371	0.503
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full Power	519000	2595	24.18	25.50	1.355	0.08	0.131	0.178
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	14.74	16.00	1.337	-0.04	0.387	0.517
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	14.74	16.00	1.337	-0.08	0.362	0.484
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	14.74	16.00	1.337	0.12	0.165	0.221
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	14.74	16.00	1.337	-0.15	0.168	0.225
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	14.66	16.00	1.361	-0.08	0.401	0.546
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	14.66	16.00	1.361	-0.11	0.381	0.519

	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	14.66	16.00	1.361	-0.06	0.189	0.257
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	DSI 0	Reduced	518598	2592.99	14.66	16.00	1.361	-0.16	0.203	0.276
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.77	18.70	1.239	0.12	0.191	0.237
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.77	18.70	1.239	-0.06	0.040	0.050
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.77	18.70	1.239	0.03	0.083	0.103
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.77	18.70	1.239	0.16	0.024	0.030
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.75	18.70	1.245	0.04	0.213	0.265
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.75	18.70	1.245	0.13	0.044	0.055
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.75	18.70	1.245	0.07	0.091	0.113
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	DSI 0	Reduced	518598	2592.99	17.75	18.70	1.245	0.14	0.030	0.037
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	23.23	24.50	1.340	-0.15	0.124	0.166
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	23.23	24.50	1.340	-0.01	0.046	0.062
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	23.23	24.50	1.340	0.06	0.067	0.090
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	23.23	24.50	1.340	-0.16	0.046	0.062
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	23.21	24.50	1.346	-0.14	0.129	0.174
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	23.21	24.50	1.346	0.05	0.049	0.066
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	23.21	24.50	1.346	-0.1	0.072	0.097
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 0	DSI 0	Full Power	518598	2592.99	23.21	24.50	1.346	0.11	0.056	0.075
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	24.65	25.70	1.274	-0.16	0.203	0.259
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	24.65	25.70	1.274	0.06	0.147	0.187
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	24.65	25.70	1.274	0.09	0.374	0.476
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	24.65	25.70	1.274	-0.07	0.125	0.159
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	24.63	25.70	1.279	0.09	0.212	0.271
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	24.63	25.70	1.279	0.07	0.162	0.207
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	24.63	25.70	1.279	0.04	0.393	0.503
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	DSI 0	Full Power	518598	2592.99	24.63	25.70	1.279	-0.04	0.137	0.175

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)
2450MHz																
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 16	Full Power	39	2441	15.10	16.50	1.380	76.8	1.302	0.09	0.169	0.304
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 16	Full Power	39	2441	15.10	16.50	1.380	76.8	1.302	0.06	0.185	0.332
23	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 16	Full Power	39	2441	15.10	16.50	1.380	76.8	1.302	-0.12	0.280	**0.503**
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 16	Full Power	39	2441	15.10	16.50	1.380	76.8	1.302	-0.07	0.261	0.469
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 16	Simultaneous	39	2441	10.90	12.50	1.445	76.8	1.302	0.09	0.074	0.139
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 16	Simultaneous	39	2441	10.90	12.50	1.445	76.8	1.302	0.04	0.081	0.152
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 16	Simultaneous	39	2441	10.90	12.50	1.445	76.8	1.302	-0.08	0.125	0.235
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 16	Simultaneous	39	2441	10.90	12.50	1.445	76.8	1.302	0.06	0.114	0.215
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 16+18	Standalone	1	2412	19.31	20.00	1.172	99.53	1.005	0.09	0.375	0.442
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 16+18	Standalone	1	2412	19.31	20.00	1.172	99.53	1.005	0.07	0.335	0.395
24	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+18	Standalone	1	2412	19.31	20.00	1.172	99.53	1.005	-0.12	0.894	**1.053**
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16+18	Standalone	1	2412	19.31	20.00	1.172	99.53	1.005	0.06	0.512	0.603
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+18	Standalone	6	2437	19.11	20.00	1.227	99.53	1.005	0.01	0.687	0.847
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+18	Standalone	11	2462	18.81	20.00	1.314	99.53	1.005	-0.08	0.767	1.013
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 16+18	Simultaneous	1	2412	13.81	14.50	1.172	99.53	1.005	-0.09	0.106	0.125
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 16+18	Simultaneous	1	2412	13.81	14.50	1.172	99.53	1.005	0.12	0.094	0.111
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 16+18	Simultaneous	1	2412	13.81	14.50	1.172	99.53	1.005	0.07	0.212	0.250
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 16+18	Simultaneous	1	2412	13.81	14.50	1.172	99.53	1.005	0.03	0.144	0.170
5250-5750MHz																
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 17+18	Standalone	54	5270	17.51	18.00	1.119	94.2	1.062	-0.02	0.279	0.332
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 17+18	Standalone	54	5270	17.51	18.00	1.119	94.2	1.062	0.15	0.267	0.317
25	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 17+18	Standalone	54	5270	17.51	18.00	1.119	94.2	1.062	-0.07	0.802	**0.953**
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 17+18	Standalone	54	5270	17.51	18.00	1.119	94.2	1.062	-0.12	0.523	0.622
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 17+18	Standalone	62	5310	15.81	16.50	1.172	94.2	1.062	0.04	0.553	0.688
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 17+18	Simultaneous	58	5290	11.76	12.50	1.186	86.49	1.156	0.04	0.079	0.108
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 17+18	Simultaneous	58	5290	11.76	12.50	1.186	86.49	1.156	0.1	0.075	0.103
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17+18	Simultaneous	58	5290	11.76	12.50	1.186	86.49	1.156	-0.07	0.201	0.275
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	Simultaneous	58	5290	11.76	12.50	1.186	86.49	1.156	-0.02	0.147	0.201
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 17+18	Standalone	138	5690	16.06	17.00	1.241	86.49	1.156	0.04	0.212	0.304
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 17+18	Standalone	138	5690	16.06	17.00	1.241	86.49	1.156	-0.13	0.200	0.287
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17+18	Standalone	138	5690	16.06	17.00	1.241	86.49	1.156	-0.15	0.612	0.878
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	Standalone	138	5690	16.06	17.00	1.241	86.49	1.156	-0.04	0.435	0.624
26	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17+18	Standalone	122	5610	15.71	17.00	1.345	86.49	1.156	0.06	0.654	**1.017**
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17+18	Standalone	106	5530	12.97	14.00	1.268	86.49	1.156	-0.09	0.276	0.405
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 17+18	Simultaneous	138	5690	10.81	11.50	1.172	86.49	1.156	0.15	0.060	0.081
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 17+18	Simultaneous	138	5690	10.81	11.50	1.172	86.49	1.156	0.15	0.056	0.076
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17+18	Simultaneous	138	5690	10.81	11.50	1.172	86.49	1.156	0.06	0.184	0.249
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	Simultaneous	138	5690	10.81	11.50	1.172	86.49	1.156	0	0.123	0.167
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 17+18	Standalone	155	5775	16.06	17.00	1.241	86.49	1.156	0.1	0.181	0.260
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 17+18	Standalone	155	5775	16.06	17.00	1.241	86.49	1.156	0.14	0.168	0.241
27	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17+18	Standalone	155	5775	16.06	17.00	1.324	86.49	1.156	0.05	0.646	**0.989**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	Standalone	155	5775	16.06	17.00	1.241	86.49	1.156	-0.03	0.365	0.524
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 17+18	Simultaneous	155	5775	10.51	11.50	1.255	86.49	1.156	0.14	0.051	0.074
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 17+18	Simultaneous	155	5775	10.51	11.50	1.255	86.49	1.156	0.14	0.047	0.068
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 17+18	Simultaneous	155	5775	10.51	11.50	1.324	86.49	1.156	0.05	0.192	0.294
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 17+18	Simultaneous	155	5775	10.51	11.50	1.255	86.49	1.156	-0.15	0.103	0.149

15.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
750MHz																		
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	23095	707.5	23.73	25.00	1.340	0.06	0.158	0.212
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	23095	707.5	23.73	25.00	1.340	0.14	0.240	0.322
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	23095	707.5	23.73	25.00	1.340	-0.06	0.213	0.285
	LTE Band 12	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 4	23095	707.5	23.73	25.00	1.340	0.15	0.123	0.165
	LTE Band 12	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	23095	707.5	23.73	25.00	1.340	-0.14	0.196	0.263
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 4	23095	707.5	23.24	24.50	1.337	-0.1	0.143	0.191
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 4	23095	707.5	23.24	24.50	1.337	0.02	0.219	0.293
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 4	23095	707.5	23.24	24.50	1.337	0.16	0.209	0.279
	LTE Band 12	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	DSI 4	23095	707.5	23.24	24.50	1.337	-0.03	0.108	0.144
	LTE Band 12	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	DSI 4	23095	707.5	23.24	24.50	1.337	-0.11	0.156	0.208
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	23095	707.5	24.77	25.70	1.239	-0.16	0.306	0.379
28	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	23095	707.5	24.77	25.70	1.239	0.02	0.313	**0.388**
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 4	23095	707.5	24.77	25.70	1.239	0.02	0.132	0.164
	LTE Band 12	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	23095	707.5	24.77	25.70	1.239	0.14	0.243	0.301
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	23095	707.5	24.77	25.70	1.239	0.14	0.159	0.197
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 4	23095	707.5	23.84	24.70	1.219	-0.1	0.277	0.338
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 4	23095	707.5	23.84	24.70	1.219	-0.14	0.304	0.371
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DSI 4	23095	707.5	23.84	24.70	1.219	-0.09	0.117	0.143
	LTE Band 12	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 4	23095	707.5	23.84	24.70	1.219	-0.11	0.208	0.254
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 4	23095	707.5	23.84	24.70	1.219	-0.04	0.120	0.146
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	23230	782	24.00	25.50	1.413	-0.13	0.190	0.268
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	23230	782	24.00	25.50	1.413	0.04	0.297	0.420
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	23230	782	24.00	25.50	1.413	-0.1	0.164	0.232
	LTE Band 13	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 4	23230	782	24.00	25.50	1.413	0.02	0.063	0.089
	LTE Band 13	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	23230	782	24.00	25.50	1.413	-0.08	0.189	0.267
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 4	23230	782	22.89	24.50	1.449	-0.02	0.154	0.223
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 4	23230	782	22.89	24.50	1.449	-0.05	0.249	0.361
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 4	23230	782	22.89	24.50	1.449	-0.13	0.130	0.188
	LTE Band 13	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	DSI 4	23230	782	22.89	24.50	1.449	-0.15	0.051	0.074
	LTE Band 13	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	DSI 4	23230	782	22.89	24.50	1.449	-0.01	0.159	0.230
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	23230	782	24.51	25.70	1.315	0.06	0.411	0.541
29	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	23230	782	24.51	25.70	1.315	-0.03	0.426	**0.560**
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 4	23230	782	24.51	25.70	1.315	0.13	0.091	0.120
	LTE Band 13	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	23230	782	24.51	25.70	1.315	-0.16	0.200	0.263
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	23230	782	24.51	25.70	1.315	0.12	0.192	0.253
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 4	23230	782	23.55	24.70	1.303	0.02	0.344	0.448
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 4	23230	782	23.55	24.70	1.303	0.07	0.349	0.455
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DSI 4	23230	782	23.55	24.70	1.303	0.1	0.082	0.107
	LTE Band 13	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 4	23230	782	23.55	24.70	1.303	0.03	0.152	0.198
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 4	23230	782	23.55	24.70	1.303	0.15	0.145	0.189
835MHz																		
	GSM850	-	-	-	-	GPRS 2 TX slots	Front	10mm	Ant 1	DSI 4	189	836.4	29.30	31.00	1.479	0.05	0.174	0.257
	GSM850	-	-	-	-	GPRS 2 TX slots	Back	10mm	Ant 1	DSI 4	189	836.4	29.30	31.00	1.479	0.07	0.271	0.401
	GSM850	-	-	-	-	GPRS 2 TX slots	Left Side	10mm	Ant 1	DSI 4	189	836.4	29.30	31.00	1.479	-0.15	0.142	0.210
	GSM850	-	-	-	-	GPRS 2 TX slots	Right Side	10mm	Ant 1	DSI 4	189	836.4	29.30	31.00	1.479	0.16	0.056	0.083
	GSM850	-	-	-	-	GPRS 2 TX slots	Top Side	10mm	Ant 1	DSI 4	189	836.4	29.30	31.00	1.479	-0.1	0.177	0.262
	GSM850	-	-	-	-	GPRS 2 TX slots	Front	10mm	Ant 0	DSI 4	189	836.4	30.11	31.00	1.227	0.15	0.386	0.474
30	GSM850	-	-	-	-	GPRS 2 TX slots	Back	10mm	Ant 0	DSI 4	189	836.4	30.11	31.00	1.227	0.04	0.401	**0.492**
	GSM850	-	-	-	-	GPRS 2 TX slots	Left Side	10mm	Ant 0	DSI 4	189	836.4	30.11	31.00	1.227	-0.04	0.143	0.176
	GSM850	-	-	-	-	GPRS 2 TX slots	Right Side	10mm	Ant 0	DSI 4	189	836.4	30.11	31.00	1.227	-0.06	0.211	0.259
	GSM850	-	-	-	-	GPRS 2 TX slots	Bottom Side	10mm	Ant 0	DSI 4	189	836.4	30.11	31.00	1.227	-0.13	0.216	0.265

	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 4	4182	836.4	21.62	23.00	1.374	0.12	0.158	0.217
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 4	4182	836.4	21.62	23.00	1.374	0.07	0.231	0.317
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 4	4182	836.4	21.62	23.00	1.374	-0.09	0.146	0.201
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	DSI 4	4182	836.4	21.62	23.00	1.374	0.03	0.060	0.082
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	DSI 4	4182	836.4	21.62	23.00	1.374	0.07	0.160	0.220
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 4	4182	836.4	24.08	25.00	1.236	0.13	0.418	0.517
31	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 4	4182	836.4	24.08	25.00	1.236	0.05	0.440	**0.544**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	DSI 4	4182	836.4	24.08	25.00	1.236	0.07	0.146	0.180
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI 4	4182	836.4	24.08	25.00	1.236	-0.06	0.216	0.267
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 4	4182	836.4	24.08	25.00	1.236	0.15	0.233	0.288
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	26865	831.5	22.69	24.20	1.416	-0.16	0.172	0.244
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	26865	831.5	22.69	24.20	1.416	0.11	0.290	0.411
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	26865	831.5	22.69	24.20	1.416	-0.04	0.181	0.256
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 4	26865	831.5	22.69	24.20	1.416	0.16	0.057	0.081
	LTE Band 26	15M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	26865	831.5	22.69	24.20	1.416	0.05	0.191	0.270
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	DSI 4	26865	831.5	22.58	24.20	1.452	0.03	0.165	0.240
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	DSI 4	26865	831.5	22.58	24.20	1.452	0.05	0.253	0.367
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	DSI 4	26865	831.5	22.58	24.20	1.452	-0.13	0.177	0.257
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 1	DSI 4	26865	831.5	22.58	24.20	1.452	0	0.060	0.087
	LTE Band 26	15M	QPSK	36	0	-	Top Side	10mm	Ant 1	DSI 4	26865	831.5	22.58	24.20	1.452	0.08	0.199	0.289
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	26865	831.5	24.33	25.50	1.309	0.04	0.407	0.533
32	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	26865	831.5	24.33	25.50	1.309	0.02	0.469	**0.614**
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 4	26865	831.5	24.33	25.50	1.309	0.01	0.168	0.220
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	26865	831.5	24.33	25.50	1.309	0.05	0.220	0.288
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	26865	831.5	24.33	25.50	1.309	-0.15	0.218	0.285
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 0	DSI 4	26865	831.5	23.14	24.50	1.368	-0.02	0.342	0.468
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	DSI 4	26865	831.5	23.14	24.50	1.368	-0.12	0.363	0.496
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 0	DSI 4	26865	831.5	23.14	24.50	1.368	-0.02	0.119	0.163
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 0	DSI 4	26865	831.5	23.14	24.50	1.368	0.16	0.176	0.241
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 0	DSI 4	26865	831.5	23.14	24.50	1.368	0.05	0.176	0.241
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	20525	836.5	21.69	22.70	1.262	0.16	0.271	0.342
33	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	20525	836.5	21.69	22.70	1.262	0.06	0.470	**0.593**
	LTE Band 5	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	20525	836.5	21.69	22.70	1.262	0.05	0.301	0.380
	LTE Band 5	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 4	20525	836.5	21.69	22.70	1.262	-0.14	0.106	0.134
	LTE Band 5	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	20525	836.5	21.69	22.70	1.262	0.01	0.293	0.370
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 4	20525	836.5	21.67	22.70	1.268	-0.02	0.213	0.270
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 4	20525	836.5	21.67	22.70	1.268	-0.14	0.301	0.382
	LTE Band 5	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 4	20525	836.5	21.67	22.70	1.268	0.02	0.208	0.264
	LTE Band 5	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	DSI 4	20525	836.5	21.67	22.70	1.268	0.06	0.082	0.104
	LTE Band 5	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	DSI 4	20525	836.5	21.67	22.70	1.268	-0.02	0.224	0.284
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	20525	836.5	23.15	24.20	1.274	-0.01	0.356	0.453
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	20525	836.5	23.15	24.20	1.274	0.08	0.370	0.471
	LTE Band 5	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 4	20525	836.5	23.15	24.20	1.274	0.13	0.117	0.149
	LTE Band 5	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	20525	836.5	23.15	24.20	1.274	0.07	0.178	0.227
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	20525	836.5	23.15	24.20	1.274	-0.12	0.225	0.287
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 4	20525	836.5	23.06	24.20	1.300	-0.13	0.341	0.443
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 4	20525	836.5	23.06	24.20	1.300	-0.13	0.363	0.472
	LTE Band 5	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DSI 4	20525	836.5	23.06	24.20	1.300	0.14	0.115	0.150
	LTE Band 5	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 4	20525	836.5	23.06	24.20	1.300	0.16	0.171	0.222
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 4	20525	836.5	23.06	24.20	1.300	0.08	0.217	0.282
1750MHz																		
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 4	1413	1732.6	16.45	17.50	1.274	0.08	0.192	0.245
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 4	1413	1732.6	16.45	17.50	1.274	0.05	0.229	0.292
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 4	1413	1732.6	16.45	17.50	1.274	-0.07	0.149	0.190
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	DSI 4	1413	1732.6	16.45	17.50	1.274	-0.16	0.035	0.045
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	DSI 4	1413	1732.6	16.45	17.50	1.274	0.08	0.321	0.409

	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	DSI 4	1413	1732.6	21.83	22.50	1.167	0.06	0.453	0.529
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	DSI 4	1413	1732.6	21.83	22.50	1.167	0.06	0.550	0.642
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI 4	1413	1732.6	21.83	22.50	1.167	0.12	0.202	0.236
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 2	DSI 4	1413	1732.6	21.83	22.50	1.167	0.15	0.118	0.138
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	1413	1732.6	21.83	22.50	1.167	0.08	0.863	1.007
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	1312	1712.4	21.78	22.50	1.180	-0.05	0.705	0.832
34	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	1513	1752.6	21.76	22.50	1.186	0.06	0.915	**1.085**
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	20175	1732.5	16.67	18.00	1.358	-0.13	0.161	0.219
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	20175	1732.5	16.67	18.00	1.358	-0.03	0.225	0.306
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	20175	1732.5	16.67	18.00	1.358	-0.09	0.129	0.175
	LTE Band 4	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 4	20175	1732.5	16.67	18.00	1.358	0.09	0.023	0.031
	LTE Band 4	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	20175	1732.5	16.67	18.00	1.358	0.05	0.245	0.333
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	20175	1732.5	16.61	18.00	1.377	-0.03	0.141	0.194
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	20175	1732.5	16.61	18.00	1.377	0.07	0.216	0.297
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	20175	1732.5	16.61	18.00	1.377	-0.13	0.128	0.176
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 4	20175	1732.5	16.61	18.00	1.377	0.14	0.021	0.029
	LTE Band 4	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	20175	1732.5	16.61	18.00	1.377	-0.09	0.234	0.322
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 4	20175	1732.5	20.28	22.00	1.486	0.01	0.150	0.223
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 4	20175	1732.5	20.28	22.00	1.486	-0.09	0.148	0.220
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	20175	1732.5	20.28	22.00	1.486	-0.16	0.338	0.502
	LTE Band 4	20M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI 4	20175	1732.5	20.28	22.00	1.486	0.06	0.019	0.028
	LTE Band 4	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 4	20175	1732.5	20.28	22.00	1.486	-0.06	0.028	0.042
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 4	20175	1732.5	20.45	22.00	1.429	0.12	0.153	0.219
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 4	20175	1732.5	20.45	22.00	1.429	0.08	0.150	0.214
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	20175	1732.5	20.45	22.00	1.429	0.09	0.352	0.503
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 3	DSI 4	20175	1732.5	20.45	22.00	1.429	-0.02	0.021	0.030
	LTE Band 4	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 4	20175	1732.5	20.45	22.00	1.429	-0.01	0.030	0.043
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	20175	1732.5	22.97	24.00	1.268	0.05	0.300	0.380
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	20175	1732.5	22.97	24.00	1.268	0.08	0.377	0.478
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 4	20175	1732.5	22.97	24.00	1.268	-0.14	0.063	0.080
	LTE Band 4	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	20175	1732.5	22.97	24.00	1.268	-0.04	0.346	0.439
	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	20175	1732.5	22.97	24.00	1.268	0.14	0.202	0.256
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	20175	1732.5	22.05	23.00	1.245	0.04	0.239	0.297
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	20175	1732.5	22.05	23.00	1.245	-0.04	0.315	0.392
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 4	20175	1732.5	22.05	23.00	1.245	-0.06	0.051	0.063
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 4	20175	1732.5	22.05	23.00	1.245	0.02	0.301	0.375
	LTE Band 4	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 4	20175	1732.5	22.05	23.00	1.245	0.13	0.159	0.198
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	20175	1732.5	22.19	23.00	1.205	0.13	0.439	0.529
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	20175	1732.5	22.19	23.00	1.205	0.03	0.516	0.622
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	20175	1732.5	22.19	23.00	1.205	0.1	0.196	0.236
	LTE Band 4	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 4	20175	1732.5	22.19	23.00	1.205	0.14	0.122	0.147
	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	20175	1732.5	22.19	23.00	1.205	0.07	0.730	0.880
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	20175	1732.5	22.12	23.00	1.225	-0.08	0.462	0.566
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	20175	1732.5	22.12	23.00	1.225	-0.08	0.561	0.687
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	20175	1732.5	22.12	23.00	1.225	-0.01	0.220	0.269
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 4	20175	1732.5	22.12	23.00	1.225	0.15	0.132	0.162
35	LTE Band 4	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	20175	1732.5	22.12	23.00	1.225	-0.02	0.785	**0.961**
	LTE Band 4	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	DSI 4	20175	1732.5	21.92	23.00	1.282	0.08	0.741	0.950
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	132322	1745	18.05	19.00	1.245	-0.08	0.169	0.210
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	132322	1745	18.05	19.00	1.245	0.06	0.272	0.339
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	132322	1745	18.05	19.00	1.245	-0.09	0.155	0.193
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 4	132322	1745	18.05	19.00	1.245	0.13	0.031	0.039
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	132322	1745	18.05	19.00	1.245	0.07	0.339	0.422
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	132322	1745	18.03	19.00	1.250	0.1	0.164	0.205
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	132322	1745	18.03	19.00	1.250	0.12	0.268	0.335
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	132322	1745	18.03	19.00	1.250	-0.09	0.151	0.189

	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 4	132322	1745	18.03	19.00	1.250	-0.02	0.028	0.035
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	132322	1745	18.03	19.00	1.250	-0.02	0.329	0.411
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 4	132322	1745	20.59	22.00	1.384	0.1	0.145	0.201
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 4	132322	1745	20.59	22.00	1.384	-0.13	0.162	0.224
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	132322	1745	20.59	22.00	1.384	0.09	0.326	0.451
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI 4	132322	1745	20.59	22.00	1.384	0.07	0.022	0.030
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 4	132322	1745	20.59	22.00	1.384	0.05	0.037	0.051
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 4	132322	1745	20.53	22.00	1.403	-0.14	0.148	0.208
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 4	132322	1745	20.53	22.00	1.403	-0.13	0.164	0.230
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	132322	1745	20.53	22.00	1.403	0.09	0.369	0.518
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 3	DSI 4	132322	1745	20.53	22.00	1.403	-0.12	0.025	0.016
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 4	132322	1745	20.53	22.00	1.403	-0.16	0.039	0.055
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	132322	1745	21.96	23.00	1.271	0.15	0.213	0.271
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	132322	1745	21.96	23.00	1.271	0.09	0.356	0.452
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 4	132322	1745	21.96	23.00	1.271	-0.01	0.046	0.058
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	132322	1745	21.96	23.00	1.271	0.09	0.229	0.291
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	132322	1745	21.96	23.00	1.271	0.16	0.124	0.158
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	132322	1745	20.95	22.00	1.274	0.08	0.161	0.205
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	132322	1745	20.95	22.00	1.274	0.13	0.235	0.299
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 4	132322	1745	20.95	22.00	1.274	0.11	0.035	0.045
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 4	132322	1745	20.95	22.00	1.274	0.14	0.204	0.260
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 4	132322	1745	20.95	22.00	1.274	-0.09	0.099	0.126
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	132322	1745	20.77	21.50	1.183	-0.15	0.245	0.290
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	132322	1745	20.77	21.50	1.183	0.15	0.320	0.379
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	132322	1745	20.77	21.50	1.183	-0.12	0.135	0.160
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 4	132322	1745	20.77	21.50	1.183	-0.01	0.074	0.088
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	132322	1745	20.77	21.50	1.183	-0.03	0.678	0.802
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	132072	1720	20.61	21.50	1.227	0.08	0.568	0.697
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	132572	1770	20.60	21.50	1.230	0.01	0.683	0.840
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	132322	1745	20.76	21.50	1.186	0.03	0.268	0.318
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	132322	1745	20.76	21.50	1.186	-0.14	0.337	0.400
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	132322	1745	20.76	21.50	1.186	-0.09	0.140	0.166
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 4	132322	1745	20.76	21.50	1.186	-0.01	0.082	0.097
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	132322	1745	20.76	21.50	1.186	0.08	0.686	0.813
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	132072	1720	20.69	21.50	1.205	-0.16	0.583	0.703
36	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	132572	1770	20.60	21.50	1.230	-0.04	0.703	**0.865**
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	DSI 4	132572	1770	20.68	21.50	1.208	0.07	0.665	0.803
								1900MHz										
	GSM1900	-	-	-	-	GPRS 1 TX slots	Front	10mm	Ant 1	DSI 4	661	1880	24.55	26.00	1.396	-0.09	0.161	0.225
	GSM1900	-	-	-	-	GPRS 1 TX slots	Back	10mm	Ant 1	DSI 4	661	1880	24.55	26.00	1.396	0.05	0.284	0.397
	GSM1900	-	-	-	-	GPRS 1 TX slots	Left Side	10mm	Ant 1	DSI 4	661	1880	24.55	26.00	1.396	-0.16	0.120	0.168
	GSM1900	-	-	-	-	GPRS 1 TX slots	Right Side	10mm	Ant 1	DSI 4	661	1880	24.55	26.00	1.396	0.15	0.031	0.043
	GSM1900	-	-	-	-	GPRS 1 TX slots	Top Side	10mm	Ant 1	DSI 4	661	1880	24.55	26.00	1.396	0.08	0.250	0.349
	GSM1900	-	-	-	-	GPRS 4 TX slots	Front	10mm	Ant 2	DSI 4	661	1880	23.73	25.00	1.340	-0.04	0.282	0.378
	GSM1900	-	-	-	-	GPRS 4 TX slots	Back	10mm	Ant 2	DSI 4	661	1880	23.73	25.00	1.340	0.15	0.369	0.494
	GSM1900	-	-	-	-	GPRS 4 TX slots	Left Side	10mm	Ant 2	DSI 4	661	1880	23.73	25.00	1.340	0.1	0.131	0.175
	GSM1900	-	-	-	-	GPRS 4 TX slots	Right Side	10mm	Ant 2	DSI 4	661	1880	23.73	25.00	1.340	0.05	0.066	0.088
37	GSM1900	-	-	-	-	GPRS 4 TX slots	Bottom Side	10mm	Ant 2	DSI 4	661	1880	23.73	25.00	1.340	-0.04	0.474	**0.635**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 4	9400	1880	15.06	16.00	1.242	0.02	0.104	0.129
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 4	9400	1880	15.06	16.00	1.242	0.09	0.264	0.328
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 4	9400	1880	15.06	16.00	1.242	-0.15	0.138	0.171
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	DSI 4	9400	1880	15.06	16.00	1.242	-0.03	0.035	0.043
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	DSI 4	9400	1880	15.06	16.00	1.242	-0.04	0.229	0.284
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	DSI 4	9400	1880	21.22	22.00	1.197	0.05	0.370	0.443
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	DSI 4	9400	1880	21.22	22.00	1.197	-0.03	0.414	0.495
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI 4	9400	1880	21.22	22.00	1.197	0.12	0.147	0.176

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 2	DSI 4	9400	1880	21.22	22.00	1.197	0.06	0.087	0.104
38	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	9400	1880	21.22	22.00	1.197	0.12	0.655	**0.784**
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 4	18900	1880	18.75	20.00	1.334	-0.11	0.172	0.229
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 4	18900	1880	18.75	20.00	1.334	0.09	0.220	0.293
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	18900	1880	18.75	20.00	1.334	0.09	0.477	0.636
	LTE Band 2	20M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI 4	18900	1880	18.75	20.00	1.334	-0.16	0.030	0.040
	LTE Band 2	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 4	18900	1880	18.75	20.00	1.334	0.12	0.041	0.055
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 4	18900	1880	18.72	20.00	1.343	-0.14	0.170	0.228
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 4	18900	1880	18.72	20.00	1.343	-0.12	0.208	0.279
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	18900	1880	18.72	20.00	1.343	-0.02	0.451	0.606
	LTE Band 2	20M	QPSK	50	0	-	Right Side	10mm	Ant 3	DSI 4	18900	1880	18.72	20.00	1.343	0.1	0.029	0.039
	LTE Band 2	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 4	18900	1880	18.72	20.00	1.343	-0.12	0.039	0.052
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	18900	1880	20.59	22.00	1.384	-0.01	0.382	0.529
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	18900	1880	20.59	22.00	1.384	-0.01	0.479	0.663
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	18900	1880	20.59	22.00	1.384	0.16	0.146	0.202
	LTE Band 2	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 4	18900	1880	20.59	22.00	1.384	-0.08	0.106	0.147
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	18900	1880	20.59	22.00	1.384	-0.16	0.653	0.903
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	18700	1860	20.50	22.00	1.413	-0.16	0.561	0.792
39	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	19100	1900	20.41	22.00	1.442	0.06	0.748	**1.079**
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	18900	1880	20.58	22.00	1.387	-0.06	0.366	0.508
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	18900	1880	20.58	22.00	1.387	0.05	0.469	0.650
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	18900	1880	20.58	22.00	1.387	-0.04	0.139	0.193
	LTE Band 2	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 4	18900	1880	20.58	22.00	1.387	-0.03	0.094	0.130
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	18900	1880	20.58	22.00	1.387	-0.07	0.621	0.861
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	18700	1860	20.52	22.00	1.406	0.14	0.500	0.703
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	19100	1900	20.40	22.00	1.445	-0.13	0.713	1.031
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	DSI 4	18900	1880	20.53	22.00	1.403	0.09	0.637	0.894

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	21100	2535	16.08	17.50	1.387	-	-	0.05	0.104	0.144
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	21100	2535	16.08	17.50	1.387	-	-	-0.1	0.105	0.146
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	21100	2535	16.08	17.50	1.387	-	-	0.03	0.146	0.202
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 4	21100	2535	16.08	17.50	1.387	-	-	0.09	0.034	0.047
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	21100	2535	16.08	17.50	1.387	-	-	0.12	0.163	0.226
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	21100	2535	16.07	17.50	1.390	-	-	-0.09	0.107	0.149
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	21100	2535	16.07	17.50	1.390	-	-	-0.08	0.111	0.154
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	21100	2535	16.07	17.50	1.390	-	-	-0.07	0.162	0.225
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 4	21100	2535	16.07	17.50	1.390	-	-	-0.14	0.038	0.053
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	21100	2535	16.07	17.50	1.390	-	-	0.09	0.166	0.231
	LTE Band 7C	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	21100+ 20902	2535+ 2515.2	16.02	17.50	1.406	-	-	0.02	0.158	0.222
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 4	21100	2535	17.65	19.00	1.365	-	-	0.08	0.324	0.442
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 4	21100	2535	17.65	19.00	1.365	-	-	0.09	0.288	0.393
40	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	21100	2535	17.65	19.00	1.365	-	-	0.01	0.484	**0.660**
	LTE Band 7C	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	21100+ 20902	2535+ 2515.2	17.55	19.00	1.396	-	-	0.05	0.471	0.658
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI 4	21100	2535	17.65	19.00	1.365	-	-	0.01	0.023	0.031
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 4	21100	2535	17.65	19.00	1.365	-	-	-0.1	0.031	0.042
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 4	21100	2535	17.63	19.00	1.371	-	-	-0.08	0.298	0.409
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 4	21100	2535	17.63	19.00	1.371	-	-	-0.09	0.260	0.356
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	21100	2535	17.63	19.00	1.371	-	-	0.08	0.462	0.633
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 3	DSI 4	21100	2535	17.63	19.00	1.371	-	-	0.15	0.021	0.029
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 4	21100	2535	17.63	19.00	1.371	-	-	0.1	0.028	0.038
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	21100	2535	22.14	23.00	1.219	-	-	-0.07	0.203	0.247
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	21100	2535	22.14	23.00	1.219	-	-	0.08	0.354	0.432

	LTE Band 7C	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	21100+ 20902	2535+ 2515.2	22.13	23.00	1.222	-	-	0.03	0.236	0.288
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 4	21100	2535	22.14	23.00	1.219	-	-	0.02	0.023	0.028
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	21100	2535	22.14	23.00	1.219	-	-	0.15	0.168	0.205
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	21100	2535	22.14	23.00	1.219	-	-	0.13	0.291	0.355
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	21100	2535	21.20	22.00	1.202	-	-	-0.12	0.194	0.233
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	21100	2535	21.20	22.00	1.202	-	-	-0.13	0.320	0.385
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 4	21100	2535	21.20	22.00	1.202	-	-	0.04	0.019	0.023
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 4	21100	2535	21.20	22.00	1.202	-	-	0.03	0.154	0.185
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 4	21100	2535	21.20	22.00	1.202	-	-	0.08	0.266	0.320
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	21100	2535	18.65	19.50	1.216	-	-	0.07	0.269	0.327
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	21100	2535	18.65	19.50	1.216	-	-	0.07	0.325	0.395
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	21100	2535	18.65	19.50	1.216	-	-	-0.04	0.108	0.131
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 4	21100	2535	18.65	19.50	1.216	-	-	0.05	0.034	0.041
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	21100	2535	18.65	19.50	1.216	-	-	0.07	0.347	0.422
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	21100	2535	18.56	19.50	1.242	-	-	0.06	0.274	0.340
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	21100	2535	18.56	19.50	1.242	-	-	-0.07	0.329	0.409
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	21100	2535	18.56	19.50	1.242	-	-	-0.07	0.121	0.150
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 4	21100	2535	18.56	19.50	1.242	-	-	-0.16	0.036	0.045
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	21100	2535	18.56	19.50	1.242	-	-	0.09	0.353	0.438
	LTE Band 7C	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	21100+ 20902	2535+ 2515.2	18.62	19.50	1.225	-	-	0.04	0.334	0.409
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	38000	2595	17.46	19.00	1.426	62.9	1.006	0.04	0.066	0.095
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	38000	2595	17.46	19.00	1.426	62.9	1.006	0.1	0.077	0.110
	LTE Band 38	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	38000	2595	17.46	19.00	1.426	62.9	1.006	-0.14	0.117	0.168
	LTE Band 38	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 4	38000	2595	17.46	19.00	1.426	62.9	1.006	-0.13	0.023	0.033
	LTE Band 38	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	38000	2595	17.46	19.00	1.426	62.9	1.006	-0.12	0.136	0.195
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	38000	2595	17.38	19.00	1.452	62.9	1.006	0.01	0.068	0.099
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	38000	2595	17.38	19.00	1.452	62.9	1.006	0.16	0.082	0.120
	LTE Band 38	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	38000	2595	17.38	19.00	1.452	62.9	1.006	-0.1	0.119	0.174
	LTE Band 38	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 4	38000	2595	17.38	19.00	1.452	62.9	1.006	0.15	0.027	0.039
	LTE Band 38	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	38000	2595	17.38	19.00	1.452	62.9	1.006	0.09	0.202	0.295
	LTE Band 38C	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	37901+ 38099	2585.1+ 2604.9	17.37	19.00	1.455	62.9	1.006	0.07	0.139	0.204
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 4	38000	2595	19.11	20.20	1.285	62.9	1.006	0.02	0.149	0.193
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 4	38000	2595	19.11	20.20	1.285	62.9	1.006	0.15	0.130	0.168
	LTE Band 38	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	38000	2595	19.11	20.20	1.285	62.9	1.006	0.02	0.161	0.208
	LTE Band 38	20M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI 4	38000	2595	19.11	20.20	1.285	62.9	1.006	0.13	0.021	0.027
	LTE Band 38	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 4	38000	2595	19.11	20.20	1.285	62.9	1.006	-0.12	0.069	0.089
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 4	38000	2595	19.03	20.20	1.309	62.9	1.006	-0.14	0.153	0.202
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 4	38000	2595	19.03	20.20	1.309	62.9	1.006	0.02	0.135	0.178
	LTE Band 38	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	38000	2595	19.03	20.20	1.309	62.9	1.006	-0.16	0.198	0.261
	LTE Band 38C	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	37901+ 38099	2585.1+ 2604.9	19.01	20.20	1.315	62.9	1.006	0.08	0.162	0.214
	LTE Band 38	20M	QPSK	50	0	-	Right Side	10mm	Ant 3	DSI 4	38000	2595	19.03	20.20	1.309	62.9	1.006	0.07	0.025	0.033
	LTE Band 38	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 4	38000	2595	19.03	20.20	1.309	62.9	1.006	0.16	0.072	0.095
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	38000	2595	22.88	24.00	1.294	62.9	1.006	-0.16	0.161	0.210
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	38000	2595	22.88	24.00	1.294	62.9	1.006	0.03	0.164	0.214
	LTE Band 38	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 4	38000	2595	22.88	24.00	1.294	62.9	1.006	0.13	0.025	0.033
	LTE Band 38	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	38000	2595	22.88	24.00	1.294	62.9	1.006	0.13	0.149	0.194
	LTE Band 38	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	38000	2595	22.88	24.00	1.294	62.9	1.006	0.1	0.254	0.331
	LTE Band 38C	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	37901+ 38099	2585.1+ 2604.9	22.83	24.00	1.309	62.9	1.006	0.09	0.241	0.317
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.06	0.121	0.161
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	38000	2595	21.78	23.00	1.324	62.9	1.006	0.04	0.133	0.177
	LTE Band 38	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 4	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.11	0.019	0.025
	LTE Band 38	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 4	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.05	0.118	0.157
	LTE Band 38	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 4	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.11	0.202	0.269
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	38000	2595	22.18	23.00	1.208	62.9	1.006	-0.02	0.289	0.351

41	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	38000	2595	22.18	23.00	1.208	62.9	1.006	0.09	0.413	**0.502**
	LTE Band 38C	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	37901+38099	2585.1+2604.9	22.02	23.00	1.253	62.9	1.006	0.06	0.325	0.410
	LTE Band 38	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	38000	2595	22.18	23.00	1.208	62.9	1.006	-0.03	0.127	0.154
	LTE Band 38	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 4	38000	2595	22.18	23.00	1.208	62.9	1.006	0.11	0.038	0.046
	LTE Band 38	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	38000	2595	22.18	23.00	1.208	62.9	1.006	0.08	0.402	0.488
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	38000	2595	21.97	23.00	1.268	62.9	1.006	0.05	0.285	0.363
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	38000	2595	21.97	23.00	1.268	62.9	1.006	-0.08	0.378	0.482
	LTE Band 38	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	38000	2595	21.97	23.00	1.268	62.9	1.006	-0.04	0.119	0.152
	LTE Band 38	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 4	38000	2595	21.97	23.00	1.268	62.9	1.006	-0.05	0.031	0.040
	LTE Band 38	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	38000	2595	21.97	23.00	1.268	62.9	1.006	-0.03	0.373	0.476
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	40620	2593	19.67	21.00	1.358	62.9	1.006	0.07	0.143	0.195
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	40620	2593	19.67	21.00	1.358	62.9	1.006	0.02	0.168	0.230
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	40620	2593	19.67	21.00	1.358	62.9	1.006	0.06	0.192	0.262
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 4	40620	2593	19.67	21.00	1.358	62.9	1.006	0.09	0.033	0.045
42	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	40620	2593	19.67	21.00	1.358	62.9	1.006	0.09	0.352	**0.481**
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	40620	2593	19.65	21.00	1.365	62.9	1.006	0.1	0.136	0.187
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	40620	2593	19.65	21.00	1.365	62.9	1.006	-0.03	0.163	0.224
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	40620	2593	19.65	21.00	1.365	62.9	1.006	0.13	0.185	0.254
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 4	40620	2593	19.65	21.00	1.365	62.9	1.006	-0.05	0.031	0.043
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	40620	2593	19.65	21.00	1.365	62.9	1.006	0.07	0.319	0.438
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 4	40620	2593	19.33	20.20	1.222	62.9	1.006	0.04	0.169	0.208
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 4	40620	2593	19.33	20.20	1.222	62.9	1.006	-0.11	0.137	0.168
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	40620	2593	19.33	20.20	1.222	62.9	1.006	0.07	0.192	0.236
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI 4	40620	2593	19.33	20.20	1.222	62.9	1.006	-0.08	0.019	0.023
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 4	40620	2593	19.33	20.20	1.222	62.9	1.006	0.1	0.075	0.092
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 4	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.05	0.159	0.196
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 4	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.06	0.134	0.165
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.1	0.183	0.225
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 3	DSI 4	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.13	0.018	0.022
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 4	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.09	0.071	0.087
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	40620	2593	22.90	24.00	1.288	62.9	1.006	-0.16	0.183	0.237
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	40620	2593	22.90	24.00	1.288	62.9	1.006	-0.09	0.186	0.241
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 4	40620	2593	22.90	24.00	1.288	62.9	1.006	-0.07	0.021	0.027
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	40620	2593	22.90	24.00	1.288	62.9	1.006	0.05	0.132	0.171
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	40620	2593	22.90	24.00	1.288	62.9	1.006	0.09	0.253	0.328
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	0.12	0.133	0.169
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	-0.16	0.151	0.192
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	0.02	0.017	0.022
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	0.05	0.106	0.135
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	0.06	0.197	0.251
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	40620	2593	20.74	21.70	1.247	62.9	1.006	-0.13	0.240	0.301
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	40620	2593	20.74	21.70	1.247	62.9	1.006	0.13	0.333	0.418
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	40620	2593	20.74	21.70	1.247	62.9	1.006	0.05	0.111	0.139
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 4	40620	2593	20.74	21.70	1.247	62.9	1.006	-0.14	0.035	0.044
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	40620	2593	20.74	21.70	1.247	62.9	1.006	0.07	0.326	0.409
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	40620	2593	20.72	21.70	1.253	62.9	1.006	-0.08	0.232	0.292
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	40620	2593	20.72	21.70	1.253	62.9	1.006	0.12	0.328	0.413
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	40620	2593	20.72	21.70	1.253	62.9	1.006	-0.03	0.095	0.120
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 4	40620	2593	20.72	21.70	1.253	62.9	1.006	0.01	0.032	0.040
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	40620	2593	20.72	21.70	1.253	62.9	1.006	-0.03	0.320	0.403

DL CA / Inter-band CA & EN-DC LTE Main PA

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	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)
750MHz																			
	LTE Band 12_Main PA	10M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	23095	707.5	23.73	25.00	1.340	-	-	0.06	0.158	0.212
	LTE Band 12_Main PA	10M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	23095	707.5	23.73	25.00	1.340	-	-	0.14	0.240	0.322
	LTE Band 12_Main PA	10M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	23095	707.5	23.73	25.00	1.340	-	-	-0.06	0.213	0.285
	LTE Band 12_Main PA	10M	QPSK	1	0	Right Side	10mm	Ant 1	DSI 4	23095	707.5	23.73	25.00	1.340	-	-	0.15	0.123	0.165
	LTE Band 12_Main PA	10M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	23095	707.5	23.73	25.00	1.340	-	-	-0.14	0.196	0.263
	LTE Band 12_Main PA	10M	QPSK	25	0	Front	10mm	Ant 1	DSI 4	23095	707.5	23.24	24.50	1.337	-	-	-0.1	0.143	0.191
	LTE Band 12_Main PA	10M	QPSK	25	0	Back	10mm	Ant 1	DSI 4	23095	707.5	23.24	24.50	1.337	-	-	0.02	0.219	0.293
	LTE Band 12_Main PA	10M	QPSK	25	0	Left Side	10mm	Ant 1	DSI 4	23095	707.5	23.24	24.50	1.337	-	-	0.16	0.209	0.279
	LTE Band 12_Main PA	10M	QPSK	25	0	Right Side	10mm	Ant 1	DSI 4	23095	707.5	23.24	24.50	1.337	-	-	-0.03	0.108	0.144
	LTE Band 12_Main PA	10M	QPSK	25	0	Top Side	10mm	Ant 1	DSI 4	23095	707.5	23.24	24.50	1.337	-	-	-0.11	0.156	0.208
	LTE Band 12_Main PA	10M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	23095	707.5	24.77	25.70	1.239	-	-	-0.16	0.306	0.379
	LTE Band 12_Main PA	10M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	23095	707.5	24.77	25.70	1.239	-	-	0.02	0.313	0.388
	LTE Band 12_Main PA	10M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	23095	707.5	24.77	25.70	1.239	-	-	0.02	0.132	0.164
	LTE Band 12_Main PA	10M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	23095	707.5	24.77	25.70	1.239	-	-	0.14	0.243	0.301
	LTE Band 12_Main PA	10M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	23095	707.5	24.77	25.70	1.239	-	-	0.14	0.159	0.197
	LTE Band 12_Main PA	10M	QPSK	25	0	Front	10mm	Ant 0	DSI 4	23095	707.5	23.84	24.70	1.219	-	-	-0.1	0.277	0.338
	LTE Band 12_Main PA	10M	QPSK	25	0	Back	10mm	Ant 0	DSI 4	23095	707.5	23.84	24.70	1.219	-	-	-0.14	0.304	0.371
	LTE Band 12_Main PA	10M	QPSK	25	0	Left Side	10mm	Ant 0	DSI 4	23095	707.5	23.84	24.70	1.219	-	-	-0.09	0.117	0.143
	LTE Band 12_Main PA	10M	QPSK	25	0	Right Side	10mm	Ant 0	DSI 4	23095	707.5	23.84	24.70	1.219	-	-	-0.11	0.208	0.254
	LTE Band 12_Main PA	10M	QPSK	25	0	Bottom Side	10mm	Ant 0	DSI 4	23095	707.5	23.84	24.70	1.219	-	-	-0.04	0.120	0.146
835MHz																			
	LTE Band 5_Main PA	10M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	20525	836.5	21.21	22.20	1.256	-	-	-0.09	0.242	0.304
	LTE Band 5_Main PA	10M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	20525	836.5	21.21	22.20	1.256	-	-	-0.12	0.419	0.526
	LTE Band 5_Main PA	10M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	20525	836.5	21.21	22.20	1.256	-	-	0.07	0.268	0.337
	LTE Band 5_Main PA	10M	QPSK	1	0	Right Side	10mm	Ant 1	DSI 4	20525	836.5	21.21	22.20	1.256	-	-	0.03	0.094	0.118
	LTE Band 5_Main PA	10M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	20525	836.5	21.21	22.20	1.256	-	-	-0.13	0.261	0.328
	LTE Band 5_Main PA	10M	QPSK	25	0	Front	10mm	Ant 1	DSI 4	20525	836.5	21.19	22.20	1.262	-	-	0.04	0.190	0.240
	LTE Band 5_Main PA	10M	QPSK	25	0	Back	10mm	Ant 1	DSI 4	20525	836.5	21.19	22.20	1.262	-	-	0.04	0.268	0.338
	LTE Band 5_Main PA	10M	QPSK	25	0	Left Side	10mm	Ant 1	DSI 4	20525	836.5	21.19	22.20	1.262	-	-	0.13	0.185	0.233
	LTE Band 5_Main PA	10M	QPSK	25	0	Right Side	10mm	Ant 1	DSI 4	20525	836.5	21.19	22.20	1.262	-	-	-0.06	0.073	0.092
	LTE Band 5_Main PA	10M	QPSK	25	0	Top Side	10mm	Ant 1	DSI 4	20525	836.5	21.19	22.20	1.262	-	-	-0.03	0.200	0.252
	LTE Band 5_Main PA	10M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	20525	836.5	23.15	24.20	1.274	-	-	-0.01	0.356	0.453
	LTE Band 5_Main PA	10M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	20525	836.5	23.15	24.20	1.274	-	-	0.08	0.370	0.471
	LTE Band 5_Main PA	10M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	20525	836.5	23.15	24.20	1.274	-	-	0.13	0.117	0.149
	LTE Band 5_Main PA	10M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	20525	836.5	23.15	24.20	1.274	-	-	0.07	0.178	0.227
	LTE Band 5_Main PA	10M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	20525	836.5	23.15	24.20	1.274	-	-	-0.12	0.225	0.287
	LTE Band 5_Main PA	10M	QPSK	25	0	Front	10mm	Ant 0	DSI 4	20525	836.5	23.06	24.20	1.300	-	-	-0.13	0.341	0.443
	LTE Band 5_Main PA	10M	QPSK	25	0	Back	10mm	Ant 0	DSI 4	20525	836.5	23.06	24.20	1.300	-	-	-0.13	0.363	0.472
	LTE Band 5_Main PA	10M	QPSK	25	0	Left Side	10mm	Ant 0	DSI 4	20525	836.5	23.06	24.20	1.300	-	-	0.14	0.115	0.150
	LTE Band 5_Main PA	10M	QPSK	25	0	Right Side	10mm	Ant 0	DSI 4	20525	836.5	23.06	24.20	1.300	-	-	0.16	0.171	0.222
	LTE Band 5_Main PA	10M	QPSK	25	0	Bottom Side	10mm	Ant 0	DSI 4	20525	836.5	23.06	24.20	1.300	-	-	0.08	0.217	0.282
1750MHz																			
	LTE Band 4_Main PA	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	20175	1732.5	20.28	22.00	1.486	-	-	0.01	0.150	0.223
	LTE Band 4_Main PA	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	20175	1732.5	20.28	22.00	1.486	-	-	-0.09	0.148	0.220
	LTE Band 4_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	20175	1732.5	20.28	22.00	1.486	-	-	-0.16	0.338	0.502
	LTE Band 4_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 3	DSI 4	20175	1732.5	20.28	22.00	1.486	-	-	0.06	0.019	0.028
	LTE Band 4_Main PA	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	20175	1732.5	20.28	22.00	1.486	-	-	-0.06	0.028	0.042
	LTE Band 4_Main PA	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	20175	1732.5	20.45	22.00	1.429	-	-	0.12	0.153	0.219
	LTE Band 4_Main PA	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	20175	1732.5	20.45	22.00	1.429	-	-	0.08	0.150	0.214
	LTE Band 4_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	20175	1732.5	20.45	22.00	1.429	-	-	0.09	0.352	0.503
	LTE Band 4_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 3	DSI 4	20175	1732.5	20.45	22.00	1.429	-	-	-0.02	0.021	0.030
	LTE Band 4_Main PA	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	20175	1732.5	20.45	22.00	1.429	-	-	-0.01	0.030	0.043

	LTE Band 4_Main PA	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	20175	1732.5	19.72	20.50	1.197	-	-	-0.16	0.247	0.296
	LTE Band 4_Main PA	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	20175	1732.5	19.72	20.50	1.197	-	-	0.13	0.290	0.347
	LTE Band 4_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	20175	1732.5	19.72	20.50	1.197	-	-	-0.14	0.110	0.132
	LTE Band 4_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	20175	1732.5	19.72	20.50	1.197	-	-	-0.05	0.069	0.083
	LTE Band 4_Main PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	20175	1732.5	19.72	20.50	1.197	-	-	-0.07	0.411	0.492
	LTE Band 4_Main PA	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	20175	1732.5	19.75	20.50	1.189	-	-	0.13	0.260	0.309
	LTE Band 4_Main PA	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	20175	1732.5	19.75	20.50	1.189	-	-	-0.15	0.315	0.374
	LTE Band 4_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	20175	1732.5	19.75	20.50	1.189	-	-	0.11	0.124	0.147
	LTE Band 4_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	20175	1732.5	19.75	20.50	1.189	-	-	0.01	0.074	0.088
	LTE Band 4_Main PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	20175	1732.5	19.75	20.50	1.189	-	-	-0.01	0.441	0.524
	LTE Band 66_Main PA	20M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	132322	1745	18.05	19.00	1.245	-	-	-0.08	0.169	0.210
	LTE Band 66_Main PA	20M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	132322	1745	18.05	19.00	1.245	-	-	0.06	0.272	0.339
	LTE Band 66_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	132322	1745	18.05	19.00	1.245	-	-	-0.09	0.155	0.193
	LTE Band 66_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 1	DSI 4	132322	1745	18.05	19.00	1.245	-	-	0.13	0.031	0.039
	LTE Band 66_Main PA	20M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	132322	1745	18.05	19.00	1.245	-	-	0.07	0.339	0.422
	LTE Band 66_Main PA	20M	QPSK	50	0	Front	10mm	Ant 1	DSI 4	132322	1745	18.03	19.00	1.250	-	-	0.1	0.164	0.205
	LTE Band 66_Main PA	20M	QPSK	50	0	Back	10mm	Ant 1	DSI 4	132322	1745	18.03	19.00	1.250	-	-	0.12	0.268	0.335
	LTE Band 66_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 1	DSI 4	132322	1745	18.03	19.00	1.250	-	-	-0.09	0.151	0.189
	LTE Band 66_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 1	DSI 4	132322	1745	18.03	19.00	1.250	-	-	-0.02	0.028	0.035
	LTE Band 66_Main PA	20M	QPSK	50	0	Top Side	10mm	Ant 1	DSI 4	132322	1745	18.03	19.00	1.250	-	-	-0.02	0.329	0.411
	LTE Band 66_Main PA	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	132322	1745	20.59	22.00	1.384	-	-	0.1	0.145	0.201
	LTE Band 66_Main PA	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	132322	1745	20.59	22.00	1.384	-	-	-0.13	0.162	0.224
	LTE Band 66_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	132322	1745	20.59	22.00	1.384	-	-	0.09	0.326	0.451
	LTE Band 66_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 3	DSI 4	132322	1745	20.59	22.00	1.384	-	-	0.07	0.022	0.030
	LTE Band 66_Main PA	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	132322	1745	20.59	22.00	1.384	-	-	0.05	0.037	0.051
	LTE Band 66_Main PA	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	132322	1745	20.53	22.00	1.403	-	-	-0.14	0.148	0.208
	LTE Band 66_Main PA	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	132322	1745	20.53	22.00	1.403	-	-	-0.13	0.164	0.230
	LTE Band 66_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	132322	1745	20.53	22.00	1.403	-	-	0.09	0.369	0.518
	LTE Band 66_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 3	DSI 4	132322	1745	20.53	22.00	1.403	-	-	-0.12	0.025	0.035
	LTE Band 66_Main PA	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	132322	1745	20.53	22.00	1.403	-	-	-0.16	0.039	0.055
	LTE Band 66_Main PA	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	132322	1745	21.96	23.00	1.271	-	-	0.15	0.213	0.271
	LTE Band 66_Main PA	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	132322	1745	21.96	23.00	1.271	-	-	0.09	0.356	0.452
	LTE Band 66_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	132322	1745	21.96	23.00	1.271	-	-	-0.01	0.046	0.058
	LTE Band 66_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	132322	1745	21.96	23.00	1.271	-	-	0.09	0.229	0.291
	LTE Band 66_Main PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	132322	1745	21.96	23.00	1.271	-	-	0.16	0.124	0.158
	LTE Band 66_Main PA	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	132322	1745	20.95	22.00	1.274	-	-	0.08	0.161	0.205
	LTE Band 66_Main PA	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	132322	1745	20.95	22.00	1.274	-	-	0.13	0.235	0.299
	LTE Band 66_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	132322	1745	20.95	22.00	1.274	-	-	0.11	0.035	0.045
	LTE Band 66_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	132322	1745	20.95	22.00	1.274	-	-	0.14	0.204	0.260
	LTE Band 66_Main PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	132322	1745	20.95	22.00	1.274	-	-	-0.09	0.099	0.126
	LTE Band 66_Main PA	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	132322	1745	18.77	19.50	1.183	-	-	0.02	0.155	0.183
	LTE Band 66_Main PA	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	132322	1745	18.77	19.50	1.183	-	-	0.07	0.202	0.239
	LTE Band 66_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	132322	1745	18.77	19.50	1.183	-	-	-0.15	0.085	0.101
	LTE Band 66_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	132322	1745	18.77	19.50	1.183	-	-	0.09	0.047	0.056
	LTE Band 66_Main PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	132322	1745	18.77	19.50	1.183	-	-	-0.15	0.428	0.506
	LTE Band 66_Main PA	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	132322	1745	18.75	19.50	1.189	-	-	-0.03	0.169	0.201
	LTE Band 66_Main PA	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	132322	1745	18.75	19.50	1.189	-	-	0.04	0.213	0.253
	LTE Band 66_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	132322	1745	18.75	19.50	1.189	-	-	-0.01	0.088	0.105
	LTE Band 66_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	132322	1745	18.75	19.50	1.189	-	-	0.01	0.052	0.062
	LTE Band 66_Main PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	132322	1745	18.75	19.50	1.189	-	-	-0.11	0.433	0.515
1900MHz																			
	LTE Band 2_Main PA	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	18900	1880	17.73	19.00	1.340	-	-	0.03	0.137	0.184
	LTE Band 2_Main PA	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	18900	1880	17.73	19.00	1.340	-	-	-0.01	0.175	0.234
	LTE Band 2_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	18900	1880	17.73	19.00	1.340	-	-	-0.16	0.379	0.508
	LTE Band 2_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 3	DSI 4	18900	1880	17.73	19.00	1.340	-	-	-0.07	0.024	0.032
	LTE Band 2_Main PA	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	18900	1880	17.73	19.00	1.340	-	-	0.15	0.033	0.044

	LTE Band 2_Main PA	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	18900	1880	17.71	19.00	1.346	-	-	0.04	0.135	0.182
	LTE Band 2_Main PA	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	18900	1880	17.71	19.00	1.346	-	-	-0.04	0.165	0.222
	LTE Band 2_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	18900	1880	17.71	19.00	1.346	-	-	0	0.358	0.482
	LTE Band 2_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 3	DSI 4	18900	1880	17.71	19.00	1.346	-	-	-0.01	0.023	0.031
	LTE Band 2_Main PA	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	18900	1880	17.71	19.00	1.346	-	-	0.09	0.031	0.042
	LTE Band 2_Main PA	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	18900	1880	18.15	19.50	1.365	-	-	0.16	0.215	0.293
	LTE Band 2_Main PA	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	18900	1880	18.15	19.50	1.365	-	-	0.05	0.269	0.367
	LTE Band 2_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	18900	1880	18.15	19.50	1.365	-	-	0.14	0.082	0.112
	LTE Band 2_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	18900	1880	18.15	19.50	1.365	-	-	0	0.060	0.082
	LTE Band 2_Main PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	18900	1880	18.15	19.50	1.365	-	-	-0.05	0.367	0.501
	LTE Band 2_Main PA	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	18900	1880	18.10	19.50	1.380	-	-	-0.02	0.206	0.284
	LTE Band 2_Main PA	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	18900	1880	18.10	19.50	1.380	-	-	-0.09	0.264	0.364
	LTE Band 2_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	18900	1880	18.10	19.50	1.380	-	-	0.11	0.078	0.108
	LTE Band 2_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	18900	1880	18.10	19.50	1.380	-	-	-0.09	0.053	0.073
	LTE Band 2_Main PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	18900	1880	18.10	19.50	1.380	-	-	-0.03	0.349	0.482
2600MHz																			
	LTE Band 7_Main PA	20M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	21100	2535	16.08	17.50	1.387	-	-	0.05	0.104	0.144
	LTE Band 7_Main PA	20M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	21100	2535	16.08	17.50	1.387	-	-	-0.1	0.105	0.146
	LTE Band 7_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	21100	2535	16.08	17.50	1.387	-	-	0.03	0.146	0.202
	LTE Band 7_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 1	DSI 4	21100	2535	16.08	17.50	1.387	-	-	0.09	0.034	0.047
	LTE Band 7_Main PA	20M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	21100	2535	16.08	17.50	1.387	-	-	0.12	0.163	0.226
	LTE Band 7_Main PA	20M	QPSK	50	0	Front	10mm	Ant 1	DSI 4	21100	2535	16.07	17.50	1.390	-	-	-0.09	0.107	0.149
	LTE Band 7_Main PA	20M	QPSK	50	0	Back	10mm	Ant 1	DSI 4	21100	2535	16.07	17.50	1.390	-	-	-0.08	0.111	0.154
	LTE Band 7_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 1	DSI 4	21100	2535	16.07	17.50	1.390	-	-	-0.07	0.162	0.225
	LTE Band 7_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 1	DSI 4	21100	2535	16.07	17.50	1.390	-	-	-0.14	0.038	0.053
	LTE Band 7_Main PA	20M	QPSK	50	0	Top Side	10mm	Ant 1	DSI 4	21100	2535	16.07	17.50	1.390	-	-	0.09	0.166	0.231
	LTE Band 7_Main PA	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	21100	2535	16.68	18.00	1.355	-	-	0.1	0.257	0.348
	LTE Band 7_Main PA	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	21100	2535	16.68	18.00	1.355	-	-	0.16	0.229	0.310
	LTE Band 7_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	21100	2535	16.68	18.00	1.355	-	-	0.01	0.384	0.520
	LTE Band 7_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 3	DSI 4	21100	2535	16.68	18.00	1.355	-	-	-0.02	0.018	0.024
	LTE Band 7_Main PA	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	21100	2535	16.68	18.00	1.355	-	-	0.1	0.025	0.034
	LTE Band 7_Main PA	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	21100	2535	16.67	18.00	1.358	-	-	0.1	0.237	0.322
	LTE Band 7_Main PA	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	21100	2535	16.67	18.00	1.358	-	-	0.16	0.207	0.281
	LTE Band 7_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	21100	2535	16.67	18.00	1.358	-	-	0.05	0.367	0.499
	LTE Band 7_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 3	DSI 4	21100	2535	16.67	18.00	1.358	-	-	-0.03	0.017	0.023
	LTE Band 7_Main PA	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	21100	2535	16.67	18.00	1.358	-	-	0.03	0.022	0.030
	LTE Band 7_Main PA	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	21100	2535	22.14	23.00	1.219	-	-	-0.07	0.203	0.247
	LTE Band 7_Main PA	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	21100	2535	22.14	23.00	1.219	-	-	0.08	0.354	0.432
	LTE Band 7_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	21100	2535	22.14	23.00	1.219	-	-	0.02	0.023	0.028
	LTE Band 7_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	21100	2535	22.14	23.00	1.219	-	-	0.15	0.168	0.205
	LTE Band 7_Main PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	21100	2535	22.14	23.00	1.219	-	-	0.13	0.291	0.355
	LTE Band 7_Main PA	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	21100	2535	21.20	22.00	1.202	-	-	-0.12	0.194	0.233
	LTE Band 7_Main PA	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	21100	2535	21.20	22.00	1.202	-	-	-0.13	0.320	0.385
	LTE Band 7_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	21100	2535	21.20	22.00	1.202	-	-	0.04	0.019	0.023
	LTE Band 7_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	21100	2535	21.20	22.00	1.202	-	-	0.03	0.154	0.185
	LTE Band 7_Main PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	21100	2535	21.20	22.00	1.202	-	-	0.08	0.266	0.320
	LTE Band 7_Main PA	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	21100	2535	18.65	19.50	1.216	-	-	0.07	0.269	0.327
	LTE Band 7_Main PA	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	21100	2535	18.65	19.50	1.216	-	-	0.07	0.325	0.395
	LTE Band 7_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	21100	2535	18.65	19.50	1.216	-	-	-0.04	0.108	0.131
	LTE Band 7_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	21100	2535	18.65	19.50	1.216	-	-	0.05	0.034	0.041
	LTE Band 7_Main PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	21100	2535	18.65	19.50	1.216	-	-	0.07	0.347	0.422
	LTE Band 7_Main PA	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	21100	2535	18.56	19.50	1.242	-	-	0.06	0.274	0.340
	LTE Band 7_Main PA	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	21100	2535	18.56	19.50	1.242	-	-	-0.07	0.329	0.409
	LTE Band 7_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	21100	2535	18.56	19.50	1.242	-	-	-0.07	0.121	0.150
	LTE Band 7_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	21100	2535	18.56	19.50	1.242	-	-	-0.16	0.036	0.045
	LTE Band 7_Main PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	21100	2535	18.56	19.50	1.242	-	-	0.09	0.353	0.438

	LTE Band 38_Main PA	20M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	38000	2595	17.46	19.00	1.426	62.9	1.006	0.04	0.066	0.095
	LTE Band 38_Main PA	20M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	38000	2595	17.46	19.00	1.426	62.9	1.006	0.1	0.077	0.110
	LTE Band 38_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	38000	2595	17.46	19.00	1.426	62.9	1.006	-0.14	0.117	0.168
	LTE Band 38_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 1	DSI 4	38000	2595	17.46	19.00	1.426	62.9	1.006	-0.13	0.023	0.033
	LTE Band 38_Main PA	20M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	38000	2595	17.46	19.00	1.426	62.9	1.006	-0.12	0.136	0.195
	LTE Band 38_Main PA	20M	QPSK	50	0	Front	10mm	Ant 1	DSI 4	38000	2595	17.38	19.00	1.452	62.9	1.006	0.01	0.068	0.099
	LTE Band 38_Main PA	20M	QPSK	50	0	Back	10mm	Ant 1	DSI 4	38000	2595	17.38	19.00	1.452	62.9	1.006	0.16	0.082	0.120
	LTE Band 38_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 1	DSI 4	38000	2595	17.38	19.00	1.452	62.9	1.006	-0.1	0.119	0.174
	LTE Band 38_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 1	DSI 4	38000	2595	17.38	19.00	1.452	62.9	1.006	0.15	0.027	0.039
	LTE Band 38_Main PA	20M	QPSK	50	0	Top Side	10mm	Ant 1	DSI 4	38000	2595	17.38	19.00	1.452	62.9	1.006	0.09	0.202	0.295
	LTE Band 38_Main PA	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	38000	2595	19.11	20.20	1.285	62.9	1.006	0.02	0.149	0.193
	LTE Band 38_Main PA	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	38000	2595	19.11	20.20	1.285	62.9	1.006	0.15	0.130	0.168
	LTE Band 38_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	38000	2595	19.11	20.20	1.285	62.9	1.006	0.02	0.161	0.208
	LTE Band 38_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 3	DSI 4	38000	2595	19.11	20.20	1.285	62.9	1.006	0.13	0.021	0.027
	LTE Band 38_Main PA	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	38000	2595	19.11	20.20	1.285	62.9	1.006	-0.12	0.069	0.089
	LTE Band 38_Main PA	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	38000	2595	19.03	20.20	1.309	62.9	1.006	-0.14	0.153	0.202
	LTE Band 38_Main PA	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	38000	2595	19.03	20.20	1.309	62.9	1.006	0.02	0.135	0.178
	LTE Band 38_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	38000	2595	19.03	20.20	1.309	62.9	1.006	-0.16	0.198	0.261
	LTE Band 38_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 3	DSI 4	38000	2595	19.03	20.20	1.309	62.9	1.006	0.07	0.025	0.033
	LTE Band 38_Main PA	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	38000	2595	19.03	20.20	1.309	62.9	1.006	0.16	0.072	0.095
	LTE Band 38_Main PA	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	38000	2595	22.88	24.00	1.294	62.9	1.006	-0.16	0.161	0.210
	LTE Band 38_Main PA	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	38000	2595	22.88	24.00	1.294	62.9	1.006	0.03	0.164	0.214
	LTE Band 38_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	38000	2595	22.88	24.00	1.294	62.9	1.006	0.13	0.025	0.033
	LTE Band 38_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	38000	2595	22.88	24.00	1.294	62.9	1.006	0.13	0.149	0.194
	LTE Band 38_Main PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	38000	2595	22.88	24.00	1.294	62.9	1.006	0.1	0.254	0.331
	LTE Band 38_Main PA	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.06	0.121	0.161
	LTE Band 38_Main PA	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	38000	2595	21.78	23.00	1.324	62.9	1.006	0.04	0.133	0.177
	LTE Band 38_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.11	0.019	0.025
	LTE Band 38_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.05	0.118	0.157
	LTE Band 38_Main PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.11	0.202	0.269
	LTE Band 38_Main PA	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	38000	2595	22.18	23.00	1.208	62.9	1.006	-0.02	0.289	0.351
	LTE Band 38_Main PA	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	38000	2595	22.18	23.00	1.208	62.9	1.006	0.09	0.413	0.502
	LTE Band 38_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	38000	2595	22.18	23.00	1.208	62.9	1.006	-0.03	0.127	0.154
	LTE Band 38_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	38000	2595	22.18	23.00	1.208	62.9	1.006	0.11	0.038	0.046
	LTE Band 38_Main PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	38000	2595	22.18	23.00	1.208	62.9	1.006	0.08	0.402	0.488
	LTE Band 38_Main PA	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	38000	2595	21.97	23.00	1.268	62.9	1.006	0.05	0.285	0.363
	LTE Band 38_Main PA	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	38000	2595	21.97	23.00	1.268	62.9	1.006	-0.08	0.378	0.482
	LTE Band 38_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	38000	2595	21.97	23.00	1.268	62.9	1.006	-0.04	0.119	0.152
	LTE Band 38_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	38000	2595	21.97	23.00	1.268	62.9	1.006	-0.05	0.031	0.040
	LTE Band 38_Main PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	38000	2595	21.97	23.00	1.268	62.9	1.006	-0.03	0.373	0.476
	LTE Band 41_Main PA	20M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	40620	2593	19.67	21.00	1.358	62.9	1.006	0.07	0.143	0.195
	LTE Band 41_Main PA	20M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	40620	2593	19.67	21.00	1.358	62.9	1.006	0.02	0.168	0.230
	LTE Band 41_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	40620	2593	19.67	21.00	1.358	62.9	1.006	0.06	0.192	0.262
	LTE Band 41_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 1	DSI 4	40620	2593	19.67	21.00	1.358	62.9	1.006	0.09	0.033	0.045
	LTE Band 41_Main PA	20M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	40620	2593	19.67	21.00	1.358	62.9	1.006	0.09	0.352	0.481
	LTE Band 41_Main PA	20M	QPSK	50	0	Front	10mm	Ant 1	DSI 4	40620	2593	19.65	21.00	1.365	62.9	1.006	0.1	0.136	0.187
	LTE Band 41_Main PA	20M	QPSK	50	0	Back	10mm	Ant 1	DSI 4	40620	2593	19.65	21.00	1.365	62.9	1.006	-0.03	0.163	0.224
	LTE Band 41_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 1	DSI 4	40620	2593	19.65	21.00	1.365	62.9	1.006	0.13	0.185	0.254
	LTE Band 41_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 1	DSI 4	40620	2593	19.65	21.00	1.365	62.9	1.006	-0.05	0.031	0.043
	LTE Band 41_Main PA	20M	QPSK	50	0	Top Side	10mm	Ant 1	DSI 4	40620	2593	19.65	21.00	1.365	62.9	1.006	0.07	0.319	0.438
	LTE Band 41_Main PA	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	40620	2593	19.33	20.20	1.222	62.9	1.006	0.04	0.169	0.208
	LTE Band 41_Main PA	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	40620	2593	19.33	20.20	1.222	62.9	1.006	-0.11	0.137	0.168
	LTE Band 41_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	40620	2593	19.33	20.20	1.222	62.9	1.006	0.07	0.192	0.236
	LTE Band 41_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 3	DSI 4	40620	2593	19.33	20.20	1.222	62.9	1.006	-0.08	0.019	0.023
	LTE Band 41_Main PA	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	40620	2593	19.33	20.20	1.222	62.9	1.006	0.1	0.075	0.092
	LTE Band 41_Main PA	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.05	0.159	0.196

	LTE Band 41_Main PA	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.06	0.134	0.165
	LTE Band 41_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.1	0.183	0.225
	LTE Band 41_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 3	DSI 4	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.13	0.018	0.022
	LTE Band 41_Main PA	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	40620	2593	19.32	20.20	1.225	62.9	1.006	-0.09	0.071	0.087
	LTE Band 41_Main PA	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	40620	2593	22.90	24.00	1.288	62.9	1.006	-0.16	0.183	0.237
	LTE Band 41_Main PA	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	40620	2593	22.90	24.00	1.288	62.9	1.006	-0.09	0.186	0.241
	LTE Band 41_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	40620	2593	22.90	24.00	1.288	62.9	1.006	-0.07	0.021	0.027
	LTE Band 41_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	40620	2593	22.90	24.00	1.288	62.9	1.006	0.05	0.132	0.171
	LTE Band 41_Main PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	40620	2593	22.90	24.00	1.288	62.9	1.006	0.09	0.253	0.328
	LTE Band 41_Main PA	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	0.12	0.133	0.169
	LTE Band 41_Main PA	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	-0.16	0.151	0.192
	LTE Band 41_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	0.02	0.017	0.022
	LTE Band 41_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	0.05	0.106	0.135
	LTE Band 41_Main PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	0.06	0.197	0.251
	LTE Band 41_Main PA	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	40620	2593	20.74	21.70	1.247	62.9	1.006	-0.13	0.240	0.301
	LTE Band 41_Main PA	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	40620	2593	20.74	21.70	1.247	62.9	1.006	0.13	0.333	0.418
	LTE Band 41_Main PA	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	40620	2593	20.74	21.70	1.247	62.9	1.006	0.05	0.111	0.139
	LTE Band 41_Main PA	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	40620	2593	20.74	21.70	1.247	62.9	1.006	-0.14	0.035	0.044
	LTE Band 41_Main PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	40620	2593	20.74	21.70	1.247	62.9	1.006	0.07	0.326	0.409
	LTE Band 41_Main PA	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	40620	2593	20.72	21.70	1.253	62.9	1.006	-0.08	0.232	0.292
	LTE Band 41_Main PA	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	40620	2593	20.72	21.70	1.253	62.9	1.006	0.12	0.328	0.413
	LTE Band 41_Main PA	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	40620	2593	20.72	21.70	1.253	62.9	1.006	-0.03	0.095	0.120
	LTE Band 41_Main PA	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	40620	2593	20.72	21.70	1.253	62.9	1.006	0.01	0.032	0.040
	LTE Band 41_Main PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	40620	2593	20.72	21.70	1.253	62.9	1.006	-0.03	0.320	0.403

DL CA / Inter-band CA & EN-DC LTE Other PA

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHz																	
	LTE Band 4_Other PA	20M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	20175	1732.5	16.43	17.50	1.279	-0.1	0.131	0.168
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	20175	1732.5	16.43	17.50	1.279	0.02	0.198	0.253
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	20175	1732.5	16.43	17.50	1.279	0.02	0.108	0.138
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 1	DSI 4	20175	1732.5	16.43	17.50	1.279	0.14	0.041	0.052
	LTE Band 4_Other PA	20M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	20175	1732.5	16.43	17.50	1.279	0.07	0.237	0.303
	LTE Band 4_Other PA	20M	QPSK	50	0	Front	10mm	Ant 1	DSI 4	20175	1732.5	16.21	17.50	1.346	-0.09	0.127	0.171
	LTE Band 4_Other PA	20M	QPSK	50	0	Back	10mm	Ant 1	DSI 4	20175	1732.5	16.21	17.50	1.346	0.03	0.186	0.250
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 1	DSI 4	20175	1732.5	16.21	17.50	1.346	-0.03	0.103	0.139
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 1	DSI 4	20175	1732.5	16.21	17.50	1.346	0.12	0.039	0.052
	LTE Band 4_Other PA	20M	QPSK	50	0	Top Side	10mm	Ant 1	DSI 4	20175	1732.5	16.21	17.50	1.346	0.03	0.224	0.301
	LTE Band 4_Other PA	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	20175	1732.5	22.44	24.00	1.432	0.11	0.253	0.362
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	20175	1732.5	22.44	24.00	1.432	-0.01	0.378	0.541
	LTE Band 4_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	20175	1732.5	22.44	24.00	1.432	-0.03	0.049	0.070
	LTE Band 4_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	20175	1732.5	22.44	24.00	1.432	0.11	0.282	0.404
	LTE Band 4_Other PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	20175	1732.5	22.44	24.00	1.432	-0.11	0.124	0.178
	LTE Band 4_Other PA	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	20175	1732.5	22.33	24.00	1.469	0.12	0.243	0.357
	LTE Band 4_Other PA	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	20175	1732.5	22.33	24.00	1.469	-0.09	0.321	0.472
	LTE Band 4_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	20175	1732.5	22.33	24.00	1.469	0.09	0.046	0.068
	LTE Band 4_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	20175	1732.5	22.33	24.00	1.469	0.16	0.264	0.388
	LTE Band 4_Other PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	20175	1732.5	22.33	24.00	1.469	0.16	0.121	0.178
	LTE Band 66_Other PA	20M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	132572	1770	17.07	18.00	1.239	0.06	0.160	0.198
	LTE Band 66_Other PA	20M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	132572	1770	17.07	18.00	1.239	0.07	0.258	0.320
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	132572	1770	17.07	18.00	1.239	-0.15	0.134	0.166
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 1	DSI 4	132572	1770	17.07	18.00	1.239	-0.11	0.021	0.026
	LTE Band 66_Other PA	20M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	132572	1770	17.07	18.00	1.239	0.14	0.307	0.380
	LTE Band 66_Other PA	20M	QPSK	50	0	Front	10mm	Ant 1	DSI 4	132572	1770	16.96	18.00	1.271	-0.11	0.157	0.199
	LTE Band 66_Other PA	20M	QPSK	50	0	Back	10mm	Ant 1	DSI 4	132572	1770	16.96	18.00	1.271	-0.03	0.226	0.287

	LTE Band 66_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 1	DSI 4	132572	1770	16.96	18.00	1.271	-0.12	0.126	0.160
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 1	DSI 4	132572	1770	16.96	18.00	1.271	-0.14	0.019	0.024
	LTE Band 66_Other PA	20M	QPSK	50	0	Top Side	10mm	Ant 1	DSI 4	132572	1770	16.96	18.00	1.271	0.08	0.259	0.329
	LTE Band 66_Other PA	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	132572	1770	19.36	20.50	1.300	-0.02	0.133	0.173
	LTE Band 66_Other PA	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	132572	1770	19.36	20.50	1.300	0.1	0.131	0.170
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	132572	1770	19.36	20.50	1.300	-0.14	0.269	0.350
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 3	DSI 4	132572	1770	19.36	20.50	1.300	-0.06	0.025	0.033
	LTE Band 66_Other PA	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	132572	1770	19.36	20.50	1.300	-0.07	0.031	0.040
	LTE Band 66_Other PA	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	132572	1770	19.30	20.50	1.318	0.02	0.139	0.183
	LTE Band 66_Other PA	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	132572	1770	19.30	20.50	1.318	-0.11	0.141	0.186
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	132572	1770	19.30	20.50	1.318	0.16	0.287	0.378
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 3	DSI 4	132572	1770	19.30	20.50	1.318	0.08	0.029	0.038
	LTE Band 66_Other PA	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	132572	1770	19.30	20.50	1.318	0.03	0.034	0.045
	LTE Band 66_Other PA	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	132572	1770	22.57	24.00	1.390	0.16	0.259	0.360
	LTE Band 66_Other PA	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	132572	1770	22.57	24.00	1.390	-0.03	0.361	0.502
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	132572	1770	22.57	24.00	1.390	-0.08	0.072	0.100
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	132572	1770	22.57	24.00	1.390	-0.16	0.330	0.459
	LTE Band 66_Other PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	132572	1770	22.57	24.00	1.390	0.03	0.268	0.373
	LTE Band 66_Other PA	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	132572	1770	21.56	23.00	1.393	-0.12	0.244	0.340
	LTE Band 66_Other PA	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	132572	1770	21.56	23.00	1.393	-0.13	0.348	0.485
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	132572	1770	21.56	23.00	1.393	-0.06	0.071	0.099
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	132572	1770	21.56	23.00	1.393	-0.09	0.314	0.437
	LTE Band 66_Other PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	132572	1770	21.56	23.00	1.393	0.08	0.252	0.351
	LTE Band 66_Other PA	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	132322	1745	19.45	21.00	1.429	-0.01	0.016	0.023
	LTE Band 66_Other PA	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	132322	1745	19.45	21.00	1.429	0.06	0.044	0.063
	LTE Band 66_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	132322	1745	19.45	21.00	1.429	0.07	0.009	0.013
	LTE Band 66_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	132322	1745	19.45	21.00	1.429	0.1	0.007	0.010
	LTE Band 66_Other PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	132322	1745	19.45	21.00	1.429	0.06	0.076	0.109
	LTE Band 66_Other PA	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	132322	1745	19.37	21.00	1.455	0.16	0.011	0.016
	LTE Band 66_Other PA	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	132322	1745	19.37	21.00	1.455	-0.09	0.041	0.060
	LTE Band 66_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	132322	1745	19.37	21.00	1.455	0.15	0.007	0.010
	LTE Band 66_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	132322	1745	19.37	21.00	1.455	-0.08	0.005	0.007
	LTE Band 66_Other PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	132322	1745	19.37	21.00	1.455	-0.03	0.077	0.112
2600MHz																		
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	10mm	Ant 1	DSI 4	20850	2510	17.22	18.00	1.197	-0.05	0.078	0.093
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	20850	2510	17.22	18.00	1.197	0.1	0.104	0.124
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSI 4	20850	2510	17.22	18.00	1.197	0.16	0.120	0.144
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 1	DSI 4	20850	2510	17.22	18.00	1.197	0.14	0.021	0.025
	LTE Band 7_Other PA	20M	QPSK	1	0	Top Side	10mm	Ant 1	DSI 4	20850	2510	17.22	18.00	1.197	0.07	0.240	0.287
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	10mm	Ant 1	DSI 4	20850	2510	17.15	18.00	1.216	-0.06	0.077	0.094
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	10mm	Ant 1	DSI 4	20850	2510	17.15	18.00	1.216	-0.13	0.098	0.119
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 1	DSI 4	20850	2510	17.15	18.00	1.216	-0.07	0.114	0.139
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 1	DSI 4	20850	2510	17.15	18.00	1.216	-0.07	0.020	0.024
	LTE Band 7_Other PA	20M	QPSK	50	0	Top Side	10mm	Ant 1	DSI 4	20850	2510	17.15	18.00	1.216	-0.04	0.134	0.163
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	10mm	Ant 3	DSI 4	21350	2560	16.25	17.50	1.334	0.01	0.131	0.175
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	10mm	Ant 3	DSI 4	21350	2560	16.25	17.50	1.334	0.1	0.110	0.147
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 3	DSI 4	21350	2560	16.25	17.50	1.334	-0.01	0.173	0.231
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 3	DSI 4	21350	2560	16.25	17.50	1.334	0.04	0.018	0.024
	LTE Band 7_Other PA	20M	QPSK	1	0	Top Side	10mm	Ant 3	DSI 4	21350	2560	16.25	17.50	1.334	0.02	0.025	0.033
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	10mm	Ant 3	DSI 4	21350	2560	16.20	17.50	1.349	0.14	0.125	0.169
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	10mm	Ant 3	DSI 4	21350	2560	16.20	17.50	1.349	-0.12	0.106	0.143
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 3	DSI 4	21350	2560	16.20	17.50	1.349	-0.08	0.143	0.193
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 3	DSI 4	21350	2560	16.20	17.50	1.349	0.02	0.016	0.022
	LTE Band 7_Other PA	20M	QPSK	50	0	Top Side	10mm	Ant 3	DSI 4	21350	2560	16.20	17.50	1.349	-0.03	0.023	0.031
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	10mm	Ant 0	DSI 4	21350	2560	19.05	20.50	1.396	0.09	0.125	0.175
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	10mm	Ant 0	DSI 4	21350	2560	19.05	20.50	1.396	0.04	0.204	0.285

	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 0	DSI 4	21350	2560	19.05	20.50	1.396	0.08	0.031	0.043
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 0	DSI 4	21350	2560	19.05	20.50	1.396	-0.06	0.144	0.201
	LTE Band 7_Other PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 0	DSI 4	21350	2560	19.05	20.50	1.396	0.01	0.376	0.525
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	10mm	Ant 0	DSI 4	21350	2560	19.04	20.50	1.400	-0.04	0.121	0.169
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	10mm	Ant 0	DSI 4	21350	2560	19.04	20.50	1.400	-0.03	0.200	0.280
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 0	DSI 4	21350	2560	19.04	20.50	1.400	0.05	0.027	0.038
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 0	DSI 4	21350	2560	19.04	20.50	1.400	0.02	0.137	0.192
	LTE Band 7_Other PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 0	DSI 4	21350	2560	19.04	20.50	1.400	-0.03	0.323	0.452
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	10mm	Ant 2	DSI 4	20850	2510	19.08	20.50	1.387	-0.07	0.012	0.017
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	20850	2510	19.08	20.50	1.387	0.1	0.021	0.029
	LTE Band 7_Other PA	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	20850	2510	19.08	20.50	1.387	0.05	0.009	0.012
	LTE Band 7_Other PA	20M	QPSK	1	0	Right Side	10mm	Ant 2	DSI 4	20850	2510	19.08	20.50	1.387	0.05	0.005	0.007
	LTE Band 7_Other PA	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSI 4	20850	2510	19.08	20.50	1.387	0.04	0.028	0.038
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	10mm	Ant 2	DSI 4	20850	2510	19.01	20.50	1.409	-0.07	0.010	0.014
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	20850	2510	19.01	20.50	1.409	-0.07	0.018	0.025
	LTE Band 7_Other PA	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	20850	2510	19.01	20.50	1.409	0.04	0.008	0.011
	LTE Band 7_Other PA	20M	QPSK	50	0	Right Side	10mm	Ant 2	DSI 4	20850	2510	19.01	20.50	1.409	0.05	0.003	0.004
	LTE Band 7_Other PA	20M	QPSK	50	0	Bottom Side	10mm	Ant 2	DSI 4	20850	2510	19.01	20.50	1.409	0.13	0.021	0.030

<5GNR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
850MHz																		
	N5	25M	BPSK	1	65	DFT-15	Front	10mm	Ant 1	DSI 4	167300	836.5	22.96	24.20	1.330	0.16	0.148	0.197
	N5	25M	BPSK	1	65	DFT-15	Back	10mm	Ant 1	DSI 4	167300	836.5	22.96	24.20	1.330	-0.04	0.228	0.303
	N5	25M	BPSK	1	65	DFT-15	Left Side	10mm	Ant 1	DSI 4	167300	836.5	22.96	24.20	1.330	0.09	0.144	0.192
	N5	25M	BPSK	1	65	DFT-15	Right Side	10mm	Ant 1	DSI 4	167300	836.5	22.96	24.20	1.330	0.06	0.058	0.077
	N5	25M	BPSK	1	65	DFT-15	Top Side	10mm	Ant 1	DSI 4	167300	836.5	22.96	24.20	1.330	-0.15	0.163	0.217
	N5	25M	BPSK	64	32	DFT-15	Front	10mm	Ant 1	DSI 4	167300	836.5	22.95	24.20	1.334	0.13	0.143	0.191
	N5	25M	BPSK	64	32	DFT-15	Back	10mm	Ant 1	DSI 4	167300	836.5	22.95	24.20	1.334	-0.09	0.194	0.259
	N5	25M	BPSK	64	32	DFT-15	Left Side	10mm	Ant 1	DSI 4	167300	836.5	22.95	24.20	1.334	-0.07	0.133	0.177
	N5	25M	BPSK	64	32	DFT-15	Right Side	10mm	Ant 1	DSI 4	167300	836.5	22.95	24.20	1.334	-0.04	0.052	0.069
	N5	25M	BPSK	64	32	DFT-15	Top Side	10mm	Ant 1	DSI 4	167300	836.5	22.95	24.20	1.334	-0.1	0.149	0.199
	N5	25M	BPSK	1	65	DFT-15	Front	10mm	Ant 0	DSI 4	167300	836.5	24.77	25.50	1.183	0.07	0.336	0.398
	N5	25M	BPSK	1	65	DFT-15	Back	10mm	Ant 0	DSI 4	167300	836.5	24.77	25.50	1.183	0.05	0.351	0.415
	N5	25M	BPSK	1	65	DFT-15	Left Side	10mm	Ant 0	DSI 4	167300	836.5	24.77	25.50	1.183	0.01	0.102	0.121
	N5	25M	BPSK	1	65	DFT-15	Right Side	10mm	Ant 0	DSI 4	167300	836.5	24.77	25.50	1.183	0.09	0.146	0.173
	N5	25M	BPSK	1	65	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	167300	836.5	24.77	25.50	1.183	-0.11	0.181	0.214
	N5	25M	BPSK	64	32	DFT-15	Front	10mm	Ant 0	DSI 4	167300	836.5	24.69	25.50	1.205	0.08	0.347	0.418
43	N5	25M	BPSK	64	32	DFT-15	Back	10mm	Ant 0	DSI 4	167300	836.5	24.69	25.50	1.205	0.09	0.376	**0.453**
	N5	25M	BPSK	64	32	DFT-15	Left Side	10mm	Ant 0	DSI 4	167300	836.5	24.69	25.50	1.205	-0.16	0.104	0.125
	N5	25M	BPSK	64	32	DFT-15	Right Side	10mm	Ant 0	DSI 4	167300	836.5	24.69	25.50	1.205	-0.15	0.177	0.213
	N5	25M	BPSK	64	32	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	167300	836.5	24.69	25.50	1.205	0.06	0.187	0.225
1750MHz																		
	N66	40M	BPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	349000	1745	16.56	17.50	1.242	-0.02	0.130	0.161
	N66	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	349000	1745	16.56	17.50	1.242	0.15	0.192	0.238
	N66	40M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 1	DSI 4	349000	1745	16.56	17.50	1.242	0.01	0.114	0.142
	N66	40M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 1	DSI 4	349000	1745	16.56	17.50	1.242	-0.11	0.036	0.045
	N66	40M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 1	DSI 4	349000	1745	16.56	17.50	1.242	0.14	0.244	0.303
	N66	40M	BPSK	108	54	DFT-15	Front	10mm	Ant 1	DSI 4	349000	1745	16.53	17.50	1.250	0.05	0.135	0.169
	N66	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 1	DSI 4	349000	1745	16.53	17.50	1.250	-0.05	0.195	0.244
	N66	40M	BPSK	108	54	DFT-15	Left Side	10mm	Ant 1	DSI 4	349000	1745	16.53	17.50	1.250	0.06	0.115	0.144
	N66	40M	BPSK	108	54	DFT-15	Right Side	10mm	Ant 1	DSI 4	349000	1745	16.53	17.50	1.250	-0.01	0.039	0.049
	N66	40M	BPSK	108	54	DFT-15	Top Side	10mm	Ant 1	DSI 4	349000	1745	16.53	17.50	1.250	0.09	0.277	0.346
	N66	40M	BPSK	1	1	DFT-15	Front	10mm	Ant 3	DSI 4	349000	1745	21.27	23.00	1.489	-0.03	0.140	0.209
	N66	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 3	DSI 4	349000	1745	21.27	23.00	1.489	-0.05	0.151	0.225

	N66	40M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 4	349000	1745	21.27	23.00	1.489	-0.05	0.334	0.497
	N66	40M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 3	DSI 4	349000	1745	21.27	23.00	1.489	-0.05	0.026	0.039
	N66	40M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 3	DSI 4	349000	1745	21.27	23.00	1.489	0.11	0.034	0.051
	N66	40M	BPSK	108	54	DFT-15	Front	10mm	Ant 3	DSI 4	349000	1745	21.25	23.00	1.496	0.04	0.160	0.239
	N66	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 3	DSI 4	349000	1745	21.25	23.00	1.496	-0.05	0.174	0.260
	N66	40M	BPSK	108	54	DFT-15	Left Side	10mm	Ant 3	DSI 4	349000	1745	21.25	23.00	1.496	0.1	0.374	0.560
	N66	40M	BPSK	108	54	DFT-15	Right Side	10mm	Ant 3	DSI 4	349000	1745	21.25	23.00	1.496	0.11	0.030	0.045
	N66	40M	BPSK	108	54	DFT-15	Top Side	10mm	Ant 3	DSI 4	349000	1745	21.25	23.00	1.496	0.16	0.038	0.057
	N66	40M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	349000	1745	22.46	24.00	1.426	-0.06	0.255	0.364
	N66	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	349000	1745	22.46	24.00	1.426	0.16	0.308	0.439
	N66	40M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	349000	1745	22.46	24.00	1.426	0.13	0.041	0.058
	N66	40M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	349000	1745	22.46	24.00	1.426	-0.03	0.291	0.415
	N66	40M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	349000	1745	22.46	24.00	1.426	0.12	0.124	0.177
	N66	40M	BPSK	108	54	DFT-15	Front	10mm	Ant 0	DSI 4	349000	1745	22.45	24.00	1.429	-0.08	0.265	0.379
	N66	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 0	DSI 4	349000	1745	22.45	24.00	1.429	0.1	0.355	0.507
	N66	40M	BPSK	108	54	DFT-15	Left Side	10mm	Ant 0	DSI 4	349000	1745	22.45	24.00	1.429	0.16	0.044	0.063
	N66	40M	BPSK	108	54	DFT-15	Right Side	10mm	Ant 0	DSI 4	349000	1745	22.45	24.00	1.429	0.02	0.313	0.447
	N66	40M	BPSK	108	54	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	349000	1745	22.45	24.00	1.429	-0.03	0.152	0.217
	N66	40M	BPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 4	349000	1745	19.63	21.00	1.371	0.15	0.217	0.297
	N66	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 4	349000	1745	19.63	21.00	1.371	0.02	0.284	0.389
	N66	40M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 4	349000	1745	19.63	21.00	1.371	0.1	0.102	0.140
	N66	40M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 2	DSI 4	349000	1745	19.63	21.00	1.371	-0.13	0.058	0.080
	N66	40M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	349000	1745	19.63	21.00	1.371	0.06	0.364	0.499
	N66	40M	BPSK	108	54	DFT-15	Front	10mm	Ant 2	DSI 4	349000	1745	19.58	21.00	1.387	-0.03	0.232	0.322
	N66	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 2	DSI 4	349000	1745	19.58	21.00	1.387	0.1	0.301	0.417
	N66	40M	BPSK	108	54	DFT-15	Left Side	10mm	Ant 2	DSI 4	349000	1745	19.58	21.00	1.387	0.16	0.116	0.161
	N66	40M	BPSK	108	54	DFT-15	Right Side	10mm	Ant 2	DSI 4	349000	1745	19.58	21.00	1.387	-0.05	0.062	0.086
44	N66	40M	BPSK	108	54	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	349000	1745	19.58	21.00	1.387	0.08	0.430	**0.596**
2600MHz																		
	N7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	507000	2535	19.12	20.00	1.225	0.1	0.117	0.143
	N7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	507000	2535	19.12	20.00	1.225	0.12	0.138	0.169
	N7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 1	DSI 4	507000	2535	19.12	20.00	1.225	-0.14	0.191	0.234
	N7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 1	DSI 4	507000	2535	19.12	20.00	1.225	0.16	0.021	0.026
	N7	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 1	DSI 4	507000	2535	19.12	20.00	1.225	-0.03	0.204	0.250
	N7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 1	DSI 4	507000	2535	19.06	20.00	1.242	-0.14	0.126	0.156
	N7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 1	DSI 4	507000	2535	19.06	20.00	1.242	0.1	0.141	0.175
	N7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 1	DSI 4	507000	2535	19.06	20.00	1.242	-0.03	0.223	0.277
	N7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 1	DSI 4	507000	2535	19.06	20.00	1.242	0.07	0.030	0.037
	N7	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 1	DSI 4	507000	2535	19.06	20.00	1.242	0.09	0.237	0.294
	N7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 3	DSI 4	507000	2535	16.81	18.50	1.476	0.16	0.121	0.179
	N7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 3	DSI 4	507000	2535	16.81	18.50	1.476	-0.1	0.115	0.170
	N7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 4	507000	2535	16.81	18.50	1.476	0.01	0.131	0.193
	N7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 3	DSI 4	507000	2535	16.81	18.50	1.476	0.13	0.041	0.061
	N7	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 3	DSI 4	507000	2535	16.81	18.50	1.476	-0.04	0.065	0.096
	N7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 3	DSI 4	507000	2535	16.71	18.50	1.510	0.04	0.129	0.195
	N7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 3	DSI 4	507000	2535	16.71	18.50	1.510	0.11	0.121	0.183
	N7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 3	DSI 4	507000	2535	16.71	18.50	1.510	0.06	0.138	0.208
	N7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 3	DSI 4	507000	2535	16.71	18.50	1.510	0.04	0.044	0.066
	N7	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 3	DSI 4	507000	2535	16.71	18.50	1.510	0.09	0.069	0.104
	N7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	507000	2535	23.53	25.00	1.403	0.02	0.277	0.389
	N7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	507000	2535	23.53	25.00	1.403	0.07	0.304	0.426
	N7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	507000	2535	23.53	25.00	1.403	0.04	0.026	0.036
	N7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	507000	2535	23.53	25.00	1.403	0.07	0.218	0.306
	N7	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	507000	2535	23.53	25.00	1.403	-0.12	0.378	0.530
	N7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 0	DSI 4	507000	2535	23.45	25.00	1.429	-0.12	0.311	0.444
	N7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 0	DSI 4	507000	2535	23.45	25.00	1.429	0.08	0.321	0.459

	N7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 0	DSI 4	507000	2535	23.45	25.00	1.429	-0.06	0.031	0.044
	N7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 0	DSI 4	507000	2535	23.45	25.00	1.429	-0.16	0.235	0.336
45	N7	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	507000	2535	23.45	25.00	1.429	0.05	0.431	**0.616**
	N7	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 4	507000	2535	19.70	21.00	1.349	-0.07	0.279	0.376
	N7	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 4	507000	2535	19.70	21.00	1.349	0.14	0.334	0.451
	N7	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 4	507000	2535	19.70	21.00	1.349	0.03	0.121	0.163
	N7	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 2	DSI 4	507000	2535	19.70	21.00	1.349	0.02	0.036	0.049
	N7	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	507000	2535	19.70	21.00	1.349	0.09	0.398	0.537
	N7	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 2	DSI 4	507000	2535	19.69	21.00	1.352	-0.06	0.291	0.393
	N7	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 2	DSI 4	507000	2535	19.69	21.00	1.352	0.02	0.339	0.458
	N7	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 2	DSI 4	507000	2535	19.69	21.00	1.352	0.11	0.139	0.188
	N7	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 2	DSI 4	507000	2535	19.69	21.00	1.352	-0.07	0.040	0.054
	N7	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	507000	2535	19.69	21.00	1.352	0.09	0.407	0.550
	N38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 1	DSI 4	519000	2595	19.67	20.50	1.211	-0.13	0.168	0.203
	N38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 1	DSI 4	519000	2595	19.67	20.50	1.211	0.1	0.187	0.226
	N38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 1	DSI 4	519000	2595	19.67	20.50	1.211	-0.01	0.280	0.339
	N38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 1	DSI 4	519000	2595	19.67	20.50	1.211	-0.13	0.030	0.036
	N38	40M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 1	DSI 4	519000	2595	19.67	20.50	1.211	-0.12	0.318	0.385
	N38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 1	DSI 4	519000	2595	19.65	20.50	1.216	0.11	0.173	0.210
	N38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 1	DSI 4	519000	2595	19.65	20.50	1.216	-0.05	0.206	0.251
	N38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 1	DSI 4	519000	2595	19.65	20.50	1.216	0.1	0.296	0.360
	N38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 1	DSI 4	519000	2595	19.65	20.50	1.216	0.16	0.037	0.045
	N38	40M	BPSK	50	28	DFT-30	Top Side	10mm	Ant 1	DSI 4	519000	2595	19.65	20.50	1.216	0.09	0.323	0.393
	N38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 3	DSI 4	519000	2595	16.05	17.50	1.396	-0.05	0.120	0.168
	N38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 3	DSI 4	519000	2595	16.05	17.50	1.396	-0.04	0.104	0.145
	N38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 3	DSI 4	519000	2595	16.05	17.50	1.396	-0.03	0.126	0.176
	N38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 3	DSI 4	519000	2595	16.05	17.50	1.396	-0.07	0.024	0.034
	N38	40M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 3	DSI 4	519000	2595	16.05	17.50	1.396	-0.02	0.039	0.054
	N38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 3	DSI 4	519000	2595	16.03	17.50	1.403	0.05	0.141	0.198
	N38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 3	DSI 4	519000	2595	16.03	17.50	1.403	0.11	0.107	0.150
	N38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 3	DSI 4	519000	2595	16.03	17.50	1.403	-0.1	0.147	0.206
	N38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 3	DSI 4	519000	2595	16.03	17.50	1.403	0.13	0.029	0.041
	N38	40M	BPSK	50	28	DFT-30	Top Side	10mm	Ant 3	DSI 4	519000	2595	16.03	17.50	1.403	0.13	0.043	0.060
	N38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 0	DSI 4	519000	2595	23.56	25.00	1.393	0.11	0.360	0.502
	N38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	519000	2595	23.56	25.00	1.393	0.02	0.286	0.398
	N38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 0	DSI 4	519000	2595	23.56	25.00	1.393	-0.01	0.034	0.047
	N38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 0	DSI 4	519000	2595	23.56	25.00	1.393	0.01	0.242	0.337
	N38	40M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	519000	2595	23.56	25.00	1.393	0.05	0.415	0.578
	N38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 0	DSI 4	519000	2595	23.54	25.00	1.400	0.04	0.387	0.542
	N38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 0	DSI 4	519000	2595	23.54	25.00	1.400	-0.04	0.307	0.430
	N38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 0	DSI 4	519000	2595	23.54	25.00	1.400	0.06	0.040	0.056
	N38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 0	DSI 4	519000	2595	23.54	25.00	1.400	-0.06	0.290	0.406
46	N38	40M	BPSK	50	28	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	519000	2595	23.54	25.00	1.400	0.07	0.512	**0.717**
	N38	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 2	DSI 4	519000	2595	18.72	20.00	1.343	-0.13	0.229	0.307
	N38	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 2	DSI 4	519000	2595	18.72	20.00	1.343	-0.07	0.246	0.330
	N38	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 2	DSI 4	519000	2595	18.72	20.00	1.343	0.05	0.093	0.125
	N38	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 2	DSI 4	519000	2595	18.72	20.00	1.343	0.12	0.031	0.042
	N38	40M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	519000	2595	18.72	20.00	1.343	0.05	0.318	0.427
	N38	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 2	DSI 4	519000	2595	18.70	20.00	1.349	-0.13	0.224	0.302
	N38	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 2	DSI 4	519000	2595	18.70	20.00	1.349	0.14	0.236	0.318
	N38	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 2	DSI 4	519000	2595	18.70	20.00	1.349	-0.04	0.085	0.115
	N38	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 2	DSI 4	519000	2595	18.70	20.00	1.349	-0.06	0.027	0.036
	N38	40M	BPSK	50	28	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	519000	2595	18.70	20.00	1.349	0.16	0.275	0.371
	N41	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 1	DSI 4	518598	2592.99	19.65	20.50	1.216	0.12	0.157	0.191
	N41	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 1	DSI 4	518598	2592.99	19.65	20.50	1.216	0.12	0.162	0.197
	N41	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 1	DSI 4	518598	2592.99	19.65	20.50	1.216	-0.13	0.248	0.302

	N41	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 1	DSI 4	518598	2592.99	19.65	20.50	1.216	0.13	0.037	0.045
	N41	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 1	DSI 4	518598	2592.99	19.65	20.50	1.216	-0.02	0.321	0.390
	N41	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 1	DSI 4	518598	2592.99	19.61	20.50	1.227	-0.05	0.171	0.210
	N41	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 1	DSI 4	518598	2592.99	19.61	20.50	1.227	-0.06	0.204	0.250
	N41	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 1	DSI 4	518598	2592.99	19.61	20.50	1.227	0.12	0.299	0.367
	N41	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 1	DSI 4	518598	2592.99	19.61	20.50	1.227	-0.15	0.041	0.050
	N41	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 1	DSI 4	518598	2592.99	19.61	20.50	1.227	0.06	0.341	0.419
	N41	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 3	DSI 4	518598	2592.99	16.50	18.00	1.413	-0.11	0.107	0.151
	N41	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 3	DSI 4	518598	2592.99	16.50	18.00	1.413	-0.02	0.093	0.131
	N41	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 3	DSI 4	518598	2592.99	16.50	18.00	1.413	0.12	0.114	0.161
	N41	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 3	DSI 4	518598	2592.99	16.50	18.00	1.413	0.12	0.019	0.027
	N41	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 3	DSI 4	518598	2592.99	16.50	18.00	1.413	0.05	0.027	0.038
	N41	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 3	DSI 4	518598	2592.99	16.44	18.00	1.432	0.13	0.136	0.195
	N41	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 3	DSI 4	518598	2592.99	16.44	18.00	1.432	-0.13	0.115	0.165
	N41	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 3	DSI 4	518598	2592.99	16.44	18.00	1.432	0.07	0.146	0.209
	N41	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 3	DSI 4	518598	2592.99	16.44	18.00	1.432	-0.09	0.023	0.033
	N41	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 3	DSI 4	518598	2592.99	16.44	18.00	1.432	0.12	0.031	0.044
	N41	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 0	DSI 4	518598	2592.99	24.12	25.50	1.374	-0.07	0.284	0.390
	N41	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	518598	2592.99	24.12	25.50	1.374	0.03	0.276	0.379
	N41	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 0	DSI 4	518598	2592.99	24.12	25.50	1.374	-0.1	0.031	0.043
	N41	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 0	DSI 4	518598	2592.99	24.12	25.50	1.374	0.07	0.205	0.282
	N41	100M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	518598	2592.99	24.12	25.50	1.374	-0.02	0.398	0.547
	N41	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 0	DSI 4	518598	2592.99	24.10	25.50	1.380	0.16	0.320	0.442
	N41	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 0	DSI 4	518598	2592.99	24.10	25.50	1.380	0.07	0.297	0.410
	N41	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 0	DSI 4	518598	2592.99	24.10	25.50	1.380	-0.09	0.047	0.065
	N41	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 0	DSI 4	518598	2592.99	24.10	25.50	1.380	-0.05	0.291	0.402
47	N41	100M	BPSK	135	69	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	518598	2592.99	24.10	25.50	1.380	0.09	0.572	**0.790**
	N41	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 2	DSI 4	518598	2592.99	19.31	20.50	1.315	0.06	0.229	0.301
	N41	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 2	DSI 4	518598	2592.99	19.31	20.50	1.315	-0.16	0.246	0.324
	N41	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 2	DSI 4	518598	2592.99	19.31	20.50	1.315	-0.08	0.116	0.153
	N41	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 2	DSI 4	518598	2592.99	19.31	20.50	1.315	0.13	0.031	0.041
	N41	100M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	518598	2592.99	19.31	20.50	1.315	-0.16	0.358	0.471
	N41	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 2	DSI 4	518598	2592.99	19.29	20.50	1.321	0.08	0.231	0.305
	N41	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 2	DSI 4	518598	2592.99	19.29	20.50	1.321	0.01	0.243	0.321
	N41	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 2	DSI 4	518598	2592.99	19.29	20.50	1.321	0.02	0.105	0.139
	N41	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 2	DSI 4	518598	2592.99	19.29	20.50	1.321	-0.03	0.028	0.037
	N41	100M	BPSK	135	69	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	518598	2592.99	19.29	20.50	1.321	0.14	0.323	0.427

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
3500-4000MHz																		
	N77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	633334	3500.01	17.01	18.50	1.409	-0.11	0.115	0.162
	N77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	633334	3500.01	17.01	18.50	1.409	-0.16	0.146	0.206
48	N77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	633334	3500.01	17.01	18.50	1.409	0.12	0.345	**0.486**
	N77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	633334	3500.01	17.01	18.50	1.409	0.09	0.015	0.021
	N77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	633334	3500.01	17.01	18.50	1.409	-0.02	0.023	0.032
	N77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	633334	3500.01	16.98	18.50	1.419	0.1	0.104	0.148
	N77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	633334	3500.01	16.98	18.50	1.419	0.15	0.141	0.200
	N77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	633334	3500.01	16.98	18.50	1.419	0.14	0.307	0.436
	N77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	633334	3500.01	16.98	18.50	1.419	-0.12	0.013	0.018
	N77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	633334	3500.01	16.98	18.50	1.419	0.1	0.019	0.027
	N77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	656000	3840	17.13	18.50	1.371	0.07	0.104	0.143
	N77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	656000	3840	17.13	18.50	1.371	-0.04	0.124	0.170
	N77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	656000	3840	17.13	18.50	1.371	0.11	0.248	0.340
	N77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	656000	3840	17.13	18.50	1.371	0.16	0.014	0.019
	N77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	656000	3840	17.13	18.50	1.371	-0.02	0.021	0.029

	N77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	656000	3840	17.10	18.50	1.380	-0.02	0.109	0.150
	N77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	656000	3840	17.10	18.50	1.380	-0.14	0.128	0.177
	N77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	656000	3840	17.10	18.50	1.380	-0.12	0.329	0.454
	N77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	656000	3840	17.10	18.50	1.380	-0.04	0.019	0.026
	N77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	656000	3840	17.10	18.50	1.380	-0.1	0.024	0.033
	N77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	633334	3500.01	15.95	17.50	1.429	-0.09	0.120	0.171
	N77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	633334	3500.01	15.95	17.50	1.429	0.1	0.155	0.221
	N77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	15.95	17.50	1.429	0.11	0.071	0.101
	N77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	15.95	17.50	1.429	0.16	0.047	0.067
	N77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	15.95	17.50	1.429	-0.09	0.296	0.423
	N77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 5	DSI 4	633334	3500.01	15.94	17.50	1.432	-0.06	0.093	0.133
	N77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 5	DSI 4	633334	3500.01	15.94	17.50	1.432	0.05	0.127	0.182
	N77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	15.94	17.50	1.432	0.07	0.054	0.077
	N77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	15.94	17.50	1.432	-0.13	0.042	0.060
	N77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	15.94	17.50	1.432	-0.12	0.230	0.329
	N77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	656000	3840	16.16	17.50	1.361	0.09	0.131	0.178
	N77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	656000	3840	16.16	17.50	1.361	0.09	0.153	0.208
	N77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	656000	3840	16.16	17.50	1.361	-0.1	0.120	0.163
	N77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	656000	3840	16.16	17.50	1.361	0.06	0.061	0.083
	N77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	656000	3840	16.16	17.50	1.361	-0.12	0.298	0.406
	N77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 5	DSI 4	656000	3840	16.14	17.50	1.368	-0.13	0.137	0.187
	N77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 5	DSI 4	656000	3840	16.14	17.50	1.368	-0.1	0.162	0.222
	N77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 5	DSI 4	656000	3840	16.14	17.50	1.368	-0.08	0.124	0.170
	N77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 5	DSI 4	656000	3840	16.14	17.50	1.368	0.07	0.073	0.100
	N77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 5	DSI 4	656000	3840	16.14	17.50	1.368	0.14	0.309	0.423
	N77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.00	1.216	0.1	0.112	0.136
	N77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.00	1.216	-0.1	0.118	0.144
	N77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.00	1.216	0.14	0.041	0.050
	N77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.00	1.216	0.02	0.286	0.348
	N77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.00	1.216	0.09	0.060	0.073
	N77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	633334	3500.01	15.13	16.00	1.222	0.15	0.104	0.127
	N77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	633334	3500.01	15.13	16.00	1.222	0.11	0.111	0.136
	N77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	633334	3500.01	15.13	16.00	1.222	-0.01	0.035	0.043
	N77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	15.13	16.00	1.222	-0.14	0.222	0.271
	N77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	15.13	16.00	1.222	-0.04	0.055	0.067
	N77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	656000	3840	15.20	16.00	1.202	-0.01	0.111	0.133
	N77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	656000	3840	15.20	16.00	1.202	0.08	0.123	0.148
	N77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	656000	3840	15.20	16.00	1.202	-0.15	0.031	0.037
	N77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	656000	3840	15.20	16.00	1.202	-0.13	0.294	0.353
	N77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	656000	3840	15.20	16.00	1.202	-0.16	0.024	0.029
	N77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	656000	3840	15.15	16.00	1.216	0.01	0.104	0.126
	N77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	656000	3840	15.15	16.00	1.216	0.05	0.120	0.146
	N77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	656000	3840	15.15	16.00	1.216	0.13	0.024	0.029
	N77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	656000	3840	15.15	16.00	1.216	-0.05	0.215	0.261
	N77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	656000	3840	15.15	16.00	1.216	-0.1	0.019	0.023
	N77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	633334	3500.01	13.01	14.50	1.409	0.09	0.021	0.030
	N77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	633334	3500.01	13.01	14.50	1.409	-0.11	0.174	0.245
	N77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	13.01	14.50	1.409	-0.04	0.105	0.148
	N77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	633334	3500.01	13.01	14.50	1.409	-0.14	0.016	0.023
	N77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	13.01	14.50	1.409	-0.06	0.027	0.038
	N77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	633334	3500.01	12.95	14.50	1.429	0.16	0.031	0.044
	N77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	633334	3500.01	12.95	14.50	1.429	0.07	0.303	0.433
	N77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	12.95	14.50	1.429	-0.03	0.118	0.169
	N77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	633334	3500.01	12.95	14.50	1.429	-0.12	0.018	0.026
	N77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	12.95	14.50	1.429	0.08	0.037	0.053
	N77	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	656000	3840	13.06	14.50	1.393	-0.12	0.030	0.042

	N77	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	656000	3840	13.06	14.50	1.393	0.16	0.181	0.252
	N77	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	656000	3840	13.06	14.50	1.393	-0.1	0.111	0.155
	N77	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	656000	3840	13.06	14.50	1.393	0.09	0.021	0.029
	N77	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	656000	3840	13.06	14.50	1.393	-0.04	0.037	0.052
	N77	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	656000	3840	13.01	14.50	1.409	-0.14	0.039	0.055
	N77	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	656000	3840	13.01	14.50	1.409	0.09	0.276	0.389
	N77	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	656000	3840	13.01	14.50	1.409	0.09	0.131	0.185
	N77	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	656000	3840	13.01	14.50	1.409	-0.01	0.042	0.059
	N77	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	656000	3840	13.01	14.50	1.409	0.16	0.053	0.075
	N78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	633334	3500.01	16.95	18.00	1.274	-0.05	0.097	0.124
	N78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	633334	3500.01	16.95	18.00	1.274	-0.08	0.115	0.146
	N78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	633334	3500.01	16.95	18.00	1.274	0.08	0.276	0.351
	N78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	633334	3500.01	16.95	18.00	1.274	-0.01	0.031	0.039
	N78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	633334	3500.01	16.95	18.00	1.274	-0.12	0.042	0.053
	N78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	633334	3500.01	16.92	18.00	1.282	-0.03	0.091	0.117
	N78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	633334	3500.01	16.92	18.00	1.282	-0.03	0.106	0.136
	N78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	633334	3500.01	16.92	18.00	1.282	-0.07	0.180	0.231
	N78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	633334	3500.01	16.92	18.00	1.282	0.06	0.024	0.031
	N78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	633334	3500.01	16.92	18.00	1.282	0.11	0.037	0.047
	N78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	17.15	18.00	1.216	0.06	0.067	0.081
	N78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	17.15	18.00	1.216	-0.13	0.095	0.116
	N78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	650000	3750	17.15	18.00	1.216	0.16	0.173	0.210
	N78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	650000	3750	17.15	18.00	1.216	-0.08	0.023	0.028
	N78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	650000	3750	17.15	18.00	1.216	0.11	0.035	0.043
	N78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	17.11	18.00	1.227	0.04	0.083	0.102
	N78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	17.11	18.00	1.227	0.04	0.099	0.122
	N78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	650000	3750	17.11	18.00	1.227	0.09	0.270	0.331
	N78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	650000	3750	17.11	18.00	1.227	-0.06	0.027	0.033
	N78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	650000	3750	17.11	18.00	1.227	0.08	0.043	0.053
	N78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	633334	3500.01	16.51	18.00	1.409	-0.03	0.078	0.110
	N78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	633334	3500.01	16.51	18.00	1.409	-0.12	0.118	0.166
	N78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	16.51	18.00	1.409	-0.11	0.034	0.048
	N78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	16.51	18.00	1.409	0.08	0.023	0.032
	N78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	16.51	18.00	1.409	0.09	0.172	0.242
	N78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 5	DSI 4	633334	3500.01	16.47	18.00	1.422	0.07	0.093	0.132
	N78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 5	DSI 4	633334	3500.01	16.47	18.00	1.422	-0.14	0.138	0.196
	N78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	16.47	18.00	1.422	-0.12	0.038	0.054
	N78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	16.47	18.00	1.422	0.02	0.031	0.044
	N78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	16.47	18.00	1.422	0.08	0.243	0.346
	N78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	650000	3750	16.70	18.00	1.349	0.11	0.152	0.205
	N78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	650000	3750	16.70	18.00	1.349	-0.15	0.220	0.297
	N78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	650000	3750	16.70	18.00	1.349	0.06	0.086	0.116
	N78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	650000	3750	16.70	18.00	1.349	0.12	0.060	0.081
	N78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	650000	3750	16.70	18.00	1.349	0.08	0.322	0.434
	N78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 5	DSI 4	650000	3750	16.67	18.00	1.358	-0.05	0.159	0.216
	N78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 5	DSI 4	650000	3750	16.67	18.00	1.358	0.06	0.227	0.308
	N78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 5	DSI 4	650000	3750	16.67	18.00	1.358	-0.1	0.113	0.153
	N78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 5	DSI 4	650000	3750	16.67	18.00	1.358	-0.14	0.072	0.098
49	N78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 5	DSI 4	650000	3750	16.67	18.00	1.358	0.06	0.402	**0.546**
	N78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	633334	3500.01	15.06	16.00	1.242	0.09	0.082	0.102
	N78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	633334	3500.01	15.06	16.00	1.242	-0.03	0.097	0.120
	N78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	633334	3500.01	15.06	16.00	1.242	-0.14	0.027	0.034
	N78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	15.06	16.00	1.242	-0.08	0.193	0.240
	N78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	15.06	16.00	1.242	0.14	0.046	0.057
	N78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	633334	3500.01	15.03	16.00	1.250	-0.07	0.088	0.110
	N78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	633334	3500.01	15.03	16.00	1.250	0.16	0.098	0.123

	N78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	633334	3500.01	15.03	16.00	1.250	0.06	0.032	0.040
	N78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	15.03	16.00	1.250	0.08	0.250	0.313
	N78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	15.03	16.00	1.250	-0.06	0.049	0.061
	N78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	650000	3750	15.05	16.00	1.245	0.13	0.093	0.116
	N78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	650000	3750	15.05	16.00	1.245	0.12	0.108	0.134
	N78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	650000	3750	15.05	16.00	1.245	0.07	0.031	0.039
	N78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	650000	3750	15.05	16.00	1.245	0.08	0.298	0.371
	N78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	650000	3750	15.05	16.00	1.245	-0.01	0.058	0.072
	N78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	650000	3750	15.01	16.00	1.256	-0.14	0.106	0.133
	N78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	650000	3750	15.01	16.00	1.256	-0.15	0.111	0.139
	N78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	650000	3750	15.01	16.00	1.256	-0.12	0.038	0.048
	N78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	650000	3750	15.01	16.00	1.256	-0.12	0.309	0.388
	N78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	650000	3750	15.01	16.00	1.256	0.06	0.061	0.077
	N78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	633334	3500.01	13.49	15.00	1.416	-0.04	0.026	0.037
	N78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	633334	3500.01	13.49	15.00	1.416	0.13	0.209	0.296
	N78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	13.49	15.00	1.416	0.08	0.121	0.171
	N78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	633334	3500.01	13.49	15.00	1.416	0.06	0.019	0.027
	N78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	13.49	15.00	1.416	-0.15	0.032	0.045
	N78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	633334	3500.01	13.48	15.00	1.419	0.12	0.032	0.045
	N78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	633334	3500.01	13.48	15.00	1.419	-0.15	0.303	0.430
	N78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	13.48	15.00	1.419	0.02	0.158	0.224
	N78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	633334	3500.01	13.48	15.00	1.419	0.15	0.023	0.033
	N78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	13.48	15.00	1.419	0.01	0.046	0.065
	N78	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	650000	3750	13.69	15.00	1.352	0.02	0.023	0.031
	N78	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	650000	3750	13.69	15.00	1.352	-0.08	0.205	0.277
	N78	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	650000	3750	13.69	15.00	1.352	0.08	0.117	0.158
	N78	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	650000	3750	13.69	15.00	1.352	-0.16	0.021	0.028
	N78	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	650000	3750	13.69	15.00	1.352	0.02	0.033	0.045
	N78	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	650000	3750	13.59	15.00	1.384	0.15	0.029	0.040
	N78	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	650000	3750	13.59	15.00	1.384	-0.16	0.216	0.299
	N78	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	650000	3750	13.59	15.00	1.384	0.04	0.131	0.181
	N78	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	650000	3750	13.59	15.00	1.384	0.1	0.026	0.036
	N78	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	650000	3750	13.59	15.00	1.384	-0.15	0.039	0.054

Inter-band CA & EN-DC NR Main PA

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
835MHz																		
	N5_Main PA	25M	BPSK	1	65	DFT-15	Front	10mm	Ant 1	DSI 4	167300	836.5	22.96	24.20	1.330	0.16	0.148	0.197
	N5_Main PA	25M	BPSK	1	65	DFT-15	Back	10mm	Ant 1	DSI 4	167300	836.5	22.96	24.20	1.330	-0.04	0.228	0.303
	N5_Main PA	25M	BPSK	1	65	DFT-15	Left Side	10mm	Ant 1	DSI 4	167300	836.5	22.96	24.20	1.330	0.09	0.144	0.192
	N5_Main PA	25M	BPSK	1	65	DFT-15	Right Side	10mm	Ant 1	DSI 4	167300	836.5	22.96	24.20	1.330	0.06	0.058	0.077
	N5_Main PA	25M	BPSK	1	65	DFT-15	Top Side	10mm	Ant 1	DSI 4	167300	836.5	22.96	24.20	1.330	-0.15	0.163	0.217
	N5_Main PA	25M	BPSK	64	32	DFT-15	Front	10mm	Ant 1	DSI 4	167300	836.5	22.95	24.20	1.334	0.13	0.143	0.191
	N5_Main PA	25M	BPSK	64	32	DFT-15	Back	10mm	Ant 1	DSI 4	167300	836.5	22.95	24.20	1.334	-0.09	0.194	0.259
	N5_Main PA	25M	BPSK	64	32	DFT-15	Left Side	10mm	Ant 1	DSI 4	167300	836.5	22.95	24.20	1.334	-0.07	0.133	0.177
	N5_Main PA	25M	BPSK	64	32	DFT-15	Right Side	10mm	Ant 1	DSI 4	167300	836.5	22.95	24.20	1.334	-0.04	0.052	0.069
	N5_Main PA	25M	BPSK	64	32	DFT-15	Top Side	10mm	Ant 1	DSI 4	167300	836.5	22.95	24.20	1.334	-0.1	0.149	0.199
	N5_Main PA	25M	BPSK	1	65	DFT-15	Front	10mm	Ant 0	DSI 4	167300	836.5	24.77	25.50	1.183	0.07	0.336	0.398
	N5_Main PA	25M	BPSK	1	65	DFT-15	Back	10mm	Ant 0	DSI 4	167300	836.5	24.77	25.50	1.183	0.05	0.351	0.415
	N5_Main PA	25M	BPSK	1	65	DFT-15	Left Side	10mm	Ant 0	DSI 4	167300	836.5	24.77	25.50	1.183	0.01	0.102	0.121
	N5_Main PA	25M	BPSK	1	65	DFT-15	Right Side	10mm	Ant 0	DSI 4	167300	836.5	24.77	25.50	1.183	0.09	0.146	0.173
	N5_Main PA	25M	BPSK	1	65	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	167300	836.5	24.77	25.50	1.183	-0.11	0.181	0.214
	N5_Main PA	25M	BPSK	64	32	DFT-15	Front	10mm	Ant 0	DSI 4	167300	836.5	24.69	25.50	1.205	0.08	0.347	0.418
	N5_Main PA	25M	BPSK	64	32	DFT-15	Back	10mm	Ant 0	DSI 4	167300	836.5	24.69	25.50	1.205	0.09	0.376	0.453
	N5_Main PA	25M	BPSK	64	32	DFT-15	Left Side	10mm	Ant 0	DSI 4	167300	836.5	24.69	25.50	1.205	-0.16	0.104	0.125

	N5_Main PA	25M	BPSK	64	32	DFT-15	Right Side	10mm	Ant 0	DSI 4	167300	836.5	24.69	25.50	1.205	-0.15	0.177	0.213
	N5_Main PA	25M	BPSK	64	32	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	167300	836.5	24.69	25.50	1.205	0.06	0.187	0.225
1750MHz																		
	N66_Main PA	40M	BPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	349000	1745	16.56	17.50	1.242	-0.02	0.130	0.161
	N66_Main PA	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	349000	1745	16.56	17.50	1.242	0.15	0.192	0.238
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 1	DSI 4	349000	1745	16.56	17.50	1.242	0.01	0.114	0.142
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 1	DSI 4	349000	1745	16.56	17.50	1.242	-0.11	0.036	0.045
	N66_Main PA	40M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 1	DSI 4	349000	1745	16.56	17.50	1.242	0.14	0.244	0.303
	N66_Main PA	40M	BPSK	108	54	DFT-15	Front	10mm	Ant 1	DSI 4	349000	1745	16.53	17.50	1.250	0.05	0.135	0.169
	N66_Main PA	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 1	DSI 4	349000	1745	16.53	17.50	1.250	-0.05	0.195	0.244
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Side	10mm	Ant 1	DSI 4	349000	1745	16.53	17.50	1.250	0.06	0.115	0.144
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Side	10mm	Ant 1	DSI 4	349000	1745	16.53	17.50	1.250	-0.01	0.039	0.049
	N66_Main PA	40M	BPSK	108	54	DFT-15	Top Side	10mm	Ant 1	DSI 4	349000	1745	16.53	17.50	1.250	0.09	0.277	0.346
	N66_Main PA	40M	BPSK	1	1	DFT-15	Front	10mm	Ant 3	DSI 4	349000	1745	20.76	22.50	1.493	-0.01	0.125	0.187
	N66_Main PA	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 3	DSI 4	349000	1745	20.76	22.50	1.493	0.08	0.135	0.202
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 4	349000	1745	20.76	22.50	1.493	0.15	0.298	0.445
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 3	DSI 4	349000	1745	20.76	22.50	1.493	-0.14	0.023	0.034
	N66_Main PA	40M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 3	DSI 4	349000	1745	20.76	22.50	1.493	0.16	0.030	0.045
	N66_Main PA	40M	BPSK	108	54	DFT-15	Front	10mm	Ant 3	DSI 4	349000	1745	20.71	22.50	1.510	0.09	0.143	0.216
	N66_Main PA	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 3	DSI 4	349000	1745	20.71	22.50	1.510	0.16	0.155	0.234
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Side	10mm	Ant 3	DSI 4	349000	1745	20.71	22.50	1.510	0.05	0.333	0.503
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Side	10mm	Ant 3	DSI 4	349000	1745	20.71	22.50	1.510	-0.01	0.027	0.041
	N66_Main PA	40M	BPSK	108	54	DFT-15	Top Side	10mm	Ant 3	DSI 4	349000	1745	20.71	22.50	1.510	0.08	0.034	0.051
	N66_Main PA	40M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	349000	1745	22.46	24.00	1.426	-0.06	0.255	0.364
	N66_Main PA	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	349000	1745	22.46	24.00	1.426	0.16	0.308	0.439
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	349000	1745	22.46	24.00	1.426	0.13	0.041	0.058
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	349000	1745	22.46	24.00	1.426	-0.03	0.291	0.415
	N66_Main PA	40M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	349000	1745	22.46	24.00	1.426	0.12	0.124	0.177
	N66_Main PA	40M	BPSK	108	54	DFT-15	Front	10mm	Ant 0	DSI 4	349000	1745	22.45	24.00	1.429	-0.08	0.265	0.379
	N66_Main PA	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 0	DSI 4	349000	1745	22.45	24.00	1.429	0.1	0.355	0.507
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Side	10mm	Ant 0	DSI 4	349000	1745	22.45	24.00	1.429	0.16	0.044	0.063
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Side	10mm	Ant 0	DSI 4	349000	1745	22.45	24.00	1.429	0.02	0.313	0.447
	N66_Main PA	40M	BPSK	108	54	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	349000	1745	22.45	24.00	1.429	-0.03	0.152	0.217
	N66_Main PA	40M	BPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 4	349000	1745	19.11	20.50	1.377	-0.16	0.193	0.266
	N66_Main PA	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 4	349000	1745	19.11	20.50	1.377	0.08	0.253	0.348
	N66_Main PA	40M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 4	349000	1745	19.11	20.50	1.377	-0.07	0.091	0.125
	N66_Main PA	40M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 2	DSI 4	349000	1745	19.11	20.50	1.377	-0.11	0.052	0.072
	N66_Main PA	40M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	349000	1745	19.11	20.50	1.377	0.04	0.324	0.446
	N66_Main PA	40M	BPSK	108	54	DFT-15	Front	10mm	Ant 2	DSI 4	349000	1745	19.10	20.50	1.380	-0.05	0.207	0.286
	N66_Main PA	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 2	DSI 4	349000	1745	19.10	20.50	1.380	0.01	0.268	0.370
	N66_Main PA	40M	BPSK	108	54	DFT-15	Left Side	10mm	Ant 2	DSI 4	349000	1745	19.10	20.50	1.380	-0.02	0.103	0.142
	N66_Main PA	40M	BPSK	108	54	DFT-15	Right Side	10mm	Ant 2	DSI 4	349000	1745	19.10	20.50	1.380	-0.14	0.055	0.076
	N66_Main PA	40M	BPSK	108	54	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	349000	1745	19.10	20.50	1.380	-0.03	0.383	0.529
2600MHz																		
	N7_Main PA	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	507000	2535	19.12	20.00	1.225	0.1	0.117	0.143
	N7_Main PA	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	507000	2535	19.12	20.00	1.225	0.12	0.138	0.169
	N7_Main PA	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 1	DSI 4	507000	2535	19.12	20.00	1.225	-0.14	0.191	0.234
	N7_Main PA	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 1	DSI 4	507000	2535	19.12	20.00	1.225	0.16	0.021	0.026
	N7_Main PA	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 1	DSI 4	507000	2535	19.12	20.00	1.225	-0.03	0.204	0.250
	N7_Main PA	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 1	DSI 4	507000	2535	19.06	20.00	1.242	-0.14	0.126	0.156
	N7_Main PA	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 1	DSI 4	507000	2535	19.06	20.00	1.242	0.1	0.141	0.175
	N7_Main PA	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 1	DSI 4	507000	2535	19.06	20.00	1.242	-0.03	0.223	0.277
	N7_Main PA	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 1	DSI 4	507000	2535	19.06	20.00	1.242	0.07	0.030	0.037
	N7_Main PA	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 1	DSI 4	507000	2535	19.06	20.00	1.242	0.09	0.237	0.294
	N7_Main PA	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	507000	2535	23.04	24.50	1.400	-0.12	0.247	0.346
	N7_Main PA	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	507000	2535	23.04	24.50	1.400	0.06	0.271	0.379

	N7_Main PA	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	507000	2535	23.04	24.50	1.400	-0.09	0.023	0.032
	N7_Main PA	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	507000	2535	23.04	24.50	1.400	0.02	0.194	0.272
	N7_Main PA	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	507000	2535	23.04	24.50	1.400	0.07	0.337	0.472
	N7_Main PA	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 0	DSI 4	507000	2535	23.01	24.50	1.409	0.03	0.277	0.390
	N7_Main PA	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 0	DSI 4	507000	2535	23.01	24.50	1.409	-0.04	0.286	0.403
	N7_Main PA	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 0	DSI 4	507000	2535	23.01	24.50	1.409	0.02	0.028	0.039
	N7_Main PA	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 0	DSI 4	507000	2535	23.01	24.50	1.409	-0.01	0.209	0.295
	N7_Main PA	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	507000	2535	23.01	24.50	1.409	0.05	0.384	0.541
	N41_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 1	DSI 4	518598	2592.99	19.65	20.50	1.216	0.12	0.157	0.191
	N41_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 1	DSI 4	518598	2592.99	19.65	20.50	1.216	0.12	0.162	0.197
	N41_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 1	DSI 4	518598	2592.99	19.65	20.50	1.216	-0.13	0.248	0.302
	N41_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 1	DSI 4	518598	2592.99	19.65	20.50	1.216	0.13	0.037	0.045
	N41_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 1	DSI 4	518598	2592.99	19.65	20.50	1.216	-0.02	0.321	0.390
	N41_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 1	DSI 4	518598	2592.99	19.61	20.50	1.227	-0.05	0.171	0.210
	N41_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 1	DSI 4	518598	2592.99	19.61	20.50	1.227	-0.06	0.204	0.250
	N41_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 1	DSI 4	518598	2592.99	19.61	20.50	1.227	0.12	0.299	0.367
	N41_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 1	DSI 4	518598	2592.99	19.61	20.50	1.227	-0.15	0.041	0.050
	N41_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 1	DSI 4	518598	2592.99	19.61	20.50	1.227	0.06	0.341	0.419
	N41_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 0	DSI 4	518598	2592.99	22.13	23.50	1.371	-0.16	0.179	0.245
	N41_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	518598	2592.99	22.13	23.50	1.371	0.09	0.174	0.239
	N41_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 0	DSI 4	518598	2592.99	22.13	23.50	1.371	-0.05	0.020	0.027
	N41_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 0	DSI 4	518598	2592.99	22.13	23.50	1.371	0.13	0.129	0.177
	N41_Main PA	100M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	518598	2592.99	22.13	23.50	1.371	-0.03	0.251	0.344
	N41_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 0	DSI 4	518598	2592.99	22.11	23.50	1.377	-0.1	0.202	0.278
	N41_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 0	DSI 4	518598	2592.99	22.11	23.50	1.377	-0.09	0.187	0.258
	N41_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 0	DSI 4	518598	2592.99	22.11	23.50	1.377	-0.07	0.030	0.041
	N41_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 0	DSI 4	518598	2592.99	22.11	23.50	1.377	0.03	0.184	0.253
	N41_Main PA	100M	BPSK	135	69	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	518598	2592.99	22.11	23.50	1.377	-0.05	0.361	0.497
3500-3900MHz																		
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	633334	3500.01	17.01	18.50	1.409	-0.11	0.115	0.162
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	633334	3500.01	17.01	18.50	1.409	-0.16	0.146	0.206
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	633334	3500.01	17.01	18.50	1.409	0.12	0.345	0.486
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	633334	3500.01	17.01	18.50	1.409	0.09	0.015	0.021
	N77_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	633334	3500.01	17.01	18.50	1.409	-0.02	0.023	0.032
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	633334	3500.01	16.98	18.50	1.419	0.1	0.104	0.148
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	633334	3500.01	16.98	18.50	1.419	0.15	0.141	0.200
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	633334	3500.01	16.98	18.50	1.419	0.14	0.307	0.436
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	633334	3500.01	16.98	18.50	1.419	-0.12	0.013	0.018
	N77_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	633334	3500.01	16.98	18.50	1.419	0.1	0.019	0.027
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	656000	3840	17.13	18.50	1.371	0.07	0.104	0.143
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	656000	3840	17.13	18.50	1.371	-0.04	0.124	0.170
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	656000	3840	17.13	18.50	1.371	0.11	0.248	0.340
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	656000	3840	17.13	18.50	1.371	0.16	0.014	0.019
	N77_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	656000	3840	17.13	18.50	1.371	-0.02	0.021	0.029
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	656000	3840	17.10	18.50	1.380	-0.02	0.109	0.150
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	656000	3840	17.10	18.50	1.380	-0.14	0.128	0.177
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	656000	3840	17.10	18.50	1.380	-0.12	0.329	0.454
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	656000	3840	17.10	18.50	1.380	-0.04	0.019	0.026
	N77_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	656000	3840	17.10	18.50	1.380	-0.1	0.024	0.033
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	633334	3500.01	15.95	17.50	1.429	-0.09	0.120	0.171
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	633334	3500.01	15.95	17.50	1.429	0.1	0.155	0.221
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	15.95	17.50	1.429	0.11	0.071	0.101
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	15.95	17.50	1.429	0.16	0.047	0.067
	N77_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	15.95	17.50	1.429	-0.09	0.296	0.423
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 5	DSI 4	633334	3500.01	15.94	17.50	1.432	-0.06	0.093	0.133
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 5	DSI 4	633334	3500.01	15.94	17.50	1.432	0.05	0.127	0.182

	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	15.94	17.50	1.432	0.07	0.054	0.077
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	15.94	17.50	1.432	-0.13	0.042	0.060
	N77_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	15.94	17.50	1.432	-0.12	0.230	0.329
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	656000	3840	16.16	17.50	1.361	0.09	0.131	0.178
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	656000	3840	16.16	17.50	1.361	0.09	0.153	0.208
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	656000	3840	16.16	17.50	1.361	-0.1	0.120	0.163
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	656000	3840	16.16	17.50	1.361	0.06	0.061	0.083
	N77_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	656000	3840	16.16	17.50	1.361	-0.12	0.298	0.406
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 5	DSI 4	656000	3840	16.14	17.50	1.368	-0.13	0.137	0.187
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 5	DSI 4	656000	3840	16.14	17.50	1.368	-0.1	0.162	0.222
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 5	DSI 4	656000	3840	16.14	17.50	1.368	-0.08	0.124	0.170
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 5	DSI 4	656000	3840	16.14	17.50	1.368	0.07	0.073	0.100
	N77_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 5	DSI 4	656000	3840	16.14	17.50	1.368	0.14	0.309	0.423
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.00	1.216	0.1	0.112	0.136
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.00	1.216	-0.1	0.118	0.144
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.00	1.216	0.14	0.041	0.050
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.00	1.216	0.02	0.286	0.348
	N77_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.00	1.216	0.09	0.060	0.073
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	633334	3500.01	15.13	16.00	1.222	0.15	0.104	0.127
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	633334	3500.01	15.13	16.00	1.222	0.11	0.111	0.136
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	633334	3500.01	15.13	16.00	1.222	-0.01	0.035	0.043
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	15.13	16.00	1.222	-0.14	0.222	0.271
	N77_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	15.13	16.00	1.222	-0.04	0.055	0.067
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	656000	3840	15.20	16.00	1.202	-0.01	0.111	0.133
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	656000	3840	15.20	16.00	1.202	0.08	0.123	0.148
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	656000	3840	15.20	16.00	1.202	-0.15	0.031	0.037
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	656000	3840	15.20	16.00	1.202	-0.13	0.294	0.353
	N77_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	656000	3840	15.20	16.00	1.202	-0.16	0.024	0.029
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	656000	3840	15.15	16.00	1.216	0.01	0.104	0.126
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	656000	3840	15.15	16.00	1.216	0.05	0.120	0.146
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	656000	3840	15.15	16.00	1.216	0.13	0.024	0.029
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	656000	3840	15.15	16.00	1.216	-0.05	0.215	0.261
	N77_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	656000	3840	15.15	16.00	1.216	-0.1	0.019	0.023
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	633334	3500.01	13.01	14.50	1.409	0.09	0.021	0.030
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	633334	3500.01	13.01	14.50	1.409	-0.11	0.174	0.245
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	13.01	14.50	1.409	-0.04	0.105	0.148
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	633334	3500.01	13.01	14.50	1.409	-0.14	0.016	0.023
	N77_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	13.01	14.50	1.409	-0.06	0.027	0.038
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	633334	3500.01	12.95	14.50	1.429	0.16	0.031	0.044
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	633334	3500.01	12.95	14.50	1.429	0.07	0.303	0.433
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	12.95	14.50	1.429	-0.03	0.118	0.169
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	633334	3500.01	12.95	14.50	1.429	-0.12	0.018	0.026
	N77_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	12.95	14.50	1.429	0.08	0.037	0.053
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	656000	3840	13.06	14.50	1.393	-0.12	0.030	0.042
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	656000	3840	13.06	14.50	1.393	0.16	0.181	0.252
	N77_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	656000	3840	13.06	14.50	1.393	-0.1	0.111	0.155
	N77_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	656000	3840	13.06	14.50	1.393	0.09	0.021	0.029
	N77_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	656000	3840	13.06	14.50	1.393	-0.04	0.037	0.052
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	656000	3840	13.01	14.50	1.409	-0.14	0.039	0.055
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	656000	3840	13.01	14.50	1.409	0.09	0.276	0.389
	N77_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	656000	3840	13.01	14.50	1.409	0.09	0.131	0.185
	N77_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	656000	3840	13.01	14.50	1.409	-0.01	0.042	0.059
	N77_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	656000	3840	13.01	14.50	1.409	0.16	0.053	0.075
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	633334	3500.01	16.95	18.00	1.274	-0.05	0.097	0.124
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	633334	3500.01	16.95	18.00	1.274	-0.08	0.115	0.146
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	633334	3500.01	16.95	18.00	1.274	0.08	0.276	0.351

	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	633334	3500.01	16.95	18.00	1.274	-0.01	0.031	0.039
	N78_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	633334	3500.01	16.95	18.00	1.274	-0.12	0.042	0.053
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	633334	3500.01	16.92	18.00	1.282	-0.03	0.091	0.117
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	633334	3500.01	16.92	18.00	1.282	-0.03	0.106	0.136
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	633334	3500.01	16.92	18.00	1.282	-0.07	0.180	0.231
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	633334	3500.01	16.92	18.00	1.282	0.06	0.024	0.031
	N78_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	633334	3500.01	16.92	18.00	1.282	0.11	0.037	0.047
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	17.15	18.00	1.216	0.06	0.067	0.081
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	17.15	18.00	1.216	-0.13	0.095	0.116
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	650000	3750	17.15	18.00	1.216	0.16	0.173	0.210
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 4	DSI 4	650000	3750	17.15	18.00	1.216	-0.08	0.023	0.028
	N78_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 4	DSI 4	650000	3750	17.15	18.00	1.216	0.11	0.035	0.043
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 4	DSI 4	650000	3750	17.11	18.00	1.227	0.04	0.083	0.102
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 4	DSI 4	650000	3750	17.11	18.00	1.227	0.04	0.099	0.122
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	650000	3750	17.11	18.00	1.227	0.09	0.270	0.331
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 4	DSI 4	650000	3750	17.11	18.00	1.227	-0.06	0.027	0.033
	N78_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 4	DSI 4	650000	3750	17.11	18.00	1.227	0.08	0.043	0.053
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	633334	3500.01	16.51	18.00	1.409	-0.03	0.078	0.110
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	633334	3500.01	16.51	18.00	1.409	-0.12	0.118	0.166
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	16.51	18.00	1.409	-0.11	0.034	0.048
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	16.51	18.00	1.409	0.08	0.023	0.032
	N78_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	16.51	18.00	1.409	0.09	0.172	0.242
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 5	DSI 4	633334	3500.01	16.47	18.00	1.422	0.07	0.093	0.132
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 5	DSI 4	633334	3500.01	16.47	18.00	1.422	-0.14	0.138	0.196
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	16.47	18.00	1.422	-0.12	0.038	0.054
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	16.47	18.00	1.422	0.02	0.031	0.044
	N78_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	16.47	18.00	1.422	0.08	0.243	0.346
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI 4	650000	3750	16.70	18.00	1.349	0.11	0.152	0.205
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 5	DSI 4	650000	3750	16.70	18.00	1.349	-0.15	0.220	0.297
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 5	DSI 4	650000	3750	16.70	18.00	1.349	0.06	0.086	0.116
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 5	DSI 4	650000	3750	16.70	18.00	1.349	0.12	0.060	0.081
	N78_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 5	DSI 4	650000	3750	16.70	18.00	1.349	0.08	0.322	0.434
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 5	DSI 4	650000	3750	16.67	18.00	1.358	-0.05	0.159	0.216
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 5	DSI 4	650000	3750	16.67	18.00	1.358	0.06	0.227	0.308
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 5	DSI 4	650000	3750	16.67	18.00	1.358	-0.1	0.113	0.153
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 5	DSI 4	650000	3750	16.67	18.00	1.358	-0.14	0.072	0.098
	N78_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 5	DSI 4	650000	3750	16.67	18.00	1.358	0.06	0.402	0.546
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	633334	3500.01	15.06	16.00	1.242	0.09	0.082	0.102
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	633334	3500.01	15.06	16.00	1.242	-0.03	0.097	0.120
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	633334	3500.01	15.06	16.00	1.242	-0.14	0.027	0.034
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	15.06	16.00	1.242	-0.08	0.193	0.240
	N78_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	15.06	16.00	1.242	0.14	0.046	0.057
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	633334	3500.01	15.03	16.00	1.250	-0.07	0.088	0.110
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	633334	3500.01	15.03	16.00	1.250	0.16	0.098	0.123
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	633334	3500.01	15.03	16.00	1.250	0.06	0.032	0.040
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	15.03	16.00	1.250	0.08	0.250	0.313
	N78_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	15.03	16.00	1.250	-0.06	0.049	0.061
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 6	DSI 4	650000	3750	15.05	16.00	1.245	0.13	0.093	0.116
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 6	DSI 4	650000	3750	15.05	16.00	1.245	0.12	0.108	0.134
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 6	DSI 4	650000	3750	15.05	16.00	1.245	0.07	0.031	0.039
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 6	DSI 4	650000	3750	15.05	16.00	1.245	0.08	0.298	0.371
	N78_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 6	DSI 4	650000	3750	15.05	16.00	1.245	-0.01	0.058	0.072
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 6	DSI 4	650000	3750	15.01	16.00	1.256	-0.14	0.106	0.133
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 6	DSI 4	650000	3750	15.01	16.00	1.256	-0.15	0.111	0.139
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 6	DSI 4	650000	3750	15.01	16.00	1.256	-0.12	0.038	0.048
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 6	DSI 4	650000	3750	15.01	16.00	1.256	-0.12	0.309	0.388

	N78_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 6	DSI 4	650000	3750	15.01	16.00	1.256	0.06	0.061	0.077
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	633334	3500.01	13.49	15.00	1.416	-0.04	0.026	0.037
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	633334	3500.01	13.49	15.00	1.416	0.13	0.209	0.296
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	13.49	15.00	1.416	0.08	0.121	0.171
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	633334	3500.01	13.49	15.00	1.416	0.06	0.019	0.027
	N78_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	13.49	15.00	1.416	-0.15	0.032	0.045
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	633334	3500.01	13.48	15.00	1.419	0.12	0.032	0.045
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	633334	3500.01	13.48	15.00	1.419	-0.15	0.303	0.430
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	13.48	15.00	1.419	0.02	0.158	0.224
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	633334	3500.01	13.48	15.00	1.419	0.15	0.023	0.033
	N78_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	13.48	15.00	1.419	0.01	0.046	0.065
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 7	DSI 4	650000	3750	13.69	15.00	1.352	0.02	0.023	0.031
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 7	DSI 4	650000	3750	13.69	15.00	1.352	-0.08	0.205	0.277
	N78_Main PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 7	DSI 4	650000	3750	13.69	15.00	1.352	0.08	0.117	0.158
	N78_Main PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 7	DSI 4	650000	3750	13.69	15.00	1.352	-0.16	0.021	0.028
	N78_Main PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 7	DSI 4	650000	3750	13.69	15.00	1.352	0.02	0.033	0.045
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 7	DSI 4	650000	3750	13.59	15.00	1.384	0.15	0.029	0.040
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 7	DSI 4	650000	3750	13.59	15.00	1.384	-0.16	0.216	0.299
	N78_Main PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 7	DSI 4	650000	3750	13.59	15.00	1.384	0.04	0.131	0.181
	N78_Main PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 7	DSI 4	650000	3750	13.59	15.00	1.384	0.1	0.026	0.036
	N78_Main PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 7	DSI 4	650000	3750	13.59	15.00	1.384	-0.15	0.039	0.054

Inter-band CA & EN-DC NR Other PA

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHz																		
	N66_Other PA	40M	BPSK	1	1	DFT-15	Front	10mm	Ant 3	DSI 4	349000	1745	22.57	24.00	1.390	0.12	0.044	0.061
	N66_Other PA	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 3	DSI 4	349000	1745	22.57	24.00	1.390	0.06	0.040	0.056
	N66_Other PA	40M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 4	349000	1745	22.57	24.00	1.390	-0.14	0.058	0.081
	N66_Other PA	40M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 3	DSI 4	349000	1745	22.57	24.00	1.390	-0.15	0.012	0.017
	N66_Other PA	40M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 3	DSI 4	349000	1745	22.57	24.00	1.390	0.01	0.021	0.029
	N66_Other PA	40M	BPSK	108	54	DFT-15	Front	10mm	Ant 3	DSI 4	349000	1745	22.55	24.00	1.396	-0.03	0.050	0.070
	N66_Other PA	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 3	DSI 4	349000	1745	22.55	24.00	1.396	-0.03	0.045	0.063
	N66_Other PA	40M	BPSK	108	54	DFT-15	Left Side	10mm	Ant 3	DSI 4	349000	1745	22.55	24.00	1.396	0.04	0.059	0.083
	N66_Other PA	40M	BPSK	108	54	DFT-15	Right Side	10mm	Ant 3	DSI 4	349000	1745	22.55	24.00	1.396	0.14	0.014	0.020
	N66_Other PA	40M	BPSK	108	54	DFT-15	Top Side	10mm	Ant 3	DSI 4	349000	1745	22.55	24.00	1.396	-0.01	0.023	0.032
	N66_Other PA	40M	BPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 4	349000	1745	23.62	24.50	1.225	0.11	0.062	0.076
	N66_Other PA	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 4	349000	1745	23.62	24.50	1.225	0.01	0.087	0.107
	N66_Other PA	40M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 4	349000	1745	23.62	24.50	1.225	0.12	0.012	0.015
	N66_Other PA	40M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 2	DSI 4	349000	1745	23.62	24.50	1.225	0.07	0.009	0.011
	N66_Other PA	40M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	349000	1745	23.62	24.50	1.225	-0.07	0.162	0.198
	N66_Other PA	40M	BPSK	108	54	DFT-15	Front	10mm	Ant 2	DSI 4	349000	1745	23.61	24.50	1.227	-0.15	0.057	0.070
	N66_Other PA	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 2	DSI 4	349000	1745	23.61	24.50	1.227	0.01	0.086	0.106
	N66_Other PA	40M	BPSK	108	54	DFT-15	Left Side	10mm	Ant 2	DSI 4	349000	1745	23.61	24.50	1.227	-0.02	0.010	0.012
	N66_Other PA	40M	BPSK	108	54	DFT-15	Right Side	10mm	Ant 2	DSI 4	349000	1745	23.61	24.50	1.227	-0.16	0.007	0.009
	N66_Other PA	40M	BPSK	108	54	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	349000	1745	23.61	24.50	1.227	0.02	0.155	0.190
2600MHz																		
	N7_Other PA	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 1	DSI 4	507000	2535	18.06	19.50	1.393	-0.16	0.101	0.141
	N7_Other PA	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 1	DSI 4	507000	2535	18.06	19.50	1.393	0.12	0.140	0.195
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 1	DSI 4	507000	2535	18.06	19.50	1.393	0.14	0.106	0.148
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 1	DSI 4	507000	2535	18.06	19.50	1.393	0	0.023	0.032
	N7_Other PA	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 1	DSI 4	507000	2535	18.06	19.50	1.393	-0.06	0.293	0.408
	N7_Other PA	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 1	DSI 4	507000	2535	18.02	19.50	1.406	-0.15	0.105	0.148
	N7_Other PA	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 1	DSI 4	507000	2535	18.02	19.50	1.406	-0.12	0.154	0.217
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 1	DSI 4	507000	2535	18.02	19.50	1.406	0.11	0.109	0.153
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 1	DSI 4	507000	2535	18.02	19.50	1.406	0.09	0.028	0.039

	N7_Other PA	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 1	DSI 4	507000	2535	18.02	19.50	1.406	-0.09	0.375	0.527
	N7_Other PA	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 3	DSI 4	507000	2535	18.79	19.70	1.233	-0.12	0.142	0.175
	N7_Other PA	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 3	DSI 4	507000	2535	18.79	19.70	1.233	-0.15	0.121	0.149
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 3	DSI 4	507000	2535	18.79	19.70	1.233	-0.01	0.158	0.195
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 3	DSI 4	507000	2535	18.79	19.70	1.233	0.07	0.018	0.022
	N7_Other PA	50M	BPSK	1	1	DFT-15	Top Side	10mm	Ant 3	DSI 4	507000	2535	18.79	19.70	1.233	-0.14	0.007	0.009
	N7_Other PA	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 3	DSI 4	507000	2535	18.77	19.70	1.239	0.13	0.137	0.170
	N7_Other PA	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 3	DSI 4	507000	2535	18.77	19.70	1.239	-0.11	0.113	0.140
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 3	DSI 4	507000	2535	18.77	19.70	1.239	-0.08	0.152	0.188
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 3	DSI 4	507000	2535	18.77	19.70	1.239	0.08	0.014	0.017
	N7_Other PA	50M	BPSK	135	68	DFT-15	Top Side	10mm	Ant 3	DSI 4	507000	2535	18.77	19.70	1.239	-0.15	0.005	0.006
	N7_Other PA	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 0	DSI 4	507000	2535	22.69	24.00	1.352	-0.07	0.303	0.410
	N7_Other PA	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 0	DSI 4	507000	2535	22.69	24.00	1.352	-0.15	0.273	0.369
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 0	DSI 4	507000	2535	22.69	24.00	1.352	-0.02	0.050	0.068
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 0	DSI 4	507000	2535	22.69	24.00	1.352	0.11	0.172	0.233
	N7_Other PA	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	507000	2535	22.69	24.00	1.352	0.15	0.310	0.419
	N7_Other PA	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 0	DSI 4	507000	2535	22.67	24.00	1.358	-0.11	0.308	0.418
	N7_Other PA	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 0	DSI 4	507000	2535	22.67	24.00	1.358	0	0.298	0.405
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 0	DSI 4	507000	2535	22.67	24.00	1.358	0.02	0.083	0.113
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 0	DSI 4	507000	2535	22.67	24.00	1.358	-0.04	0.180	0.244
	N7_Other PA	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 0	DSI 4	507000	2535	22.67	24.00	1.358	-0.11	0.330	0.448
	N7_Other PA	50M	BPSK	1	1	DFT-15	Front	10mm	Ant 2	DSI 4	507000	2535	19.65	20.50	1.216	0.15	0.260	0.316
	N7_Other PA	50M	BPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 4	507000	2535	19.65	20.50	1.216	0.05	0.334	0.406
	N7_Other PA	50M	BPSK	1	1	DFT-15	Left Side	10mm	Ant 2	DSI 4	507000	2535	19.65	20.50	1.216	0.03	0.141	0.171
	N7_Other PA	50M	BPSK	1	1	DFT-15	Right Side	10mm	Ant 2	DSI 4	507000	2535	19.65	20.50	1.216	0.13	0.049	0.060
	N7_Other PA	50M	BPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	507000	2535	19.65	20.50	1.216	0.11	0.412	0.501
	N7_Other PA	50M	BPSK	135	68	DFT-15	Front	10mm	Ant 2	DSI 4	507000	2535	19.60	20.50	1.230	0.04	0.270	0.332
	N7_Other PA	50M	BPSK	135	68	DFT-15	Back	10mm	Ant 2	DSI 4	507000	2535	19.60	20.50	1.230	0.03	0.350	0.431
	N7_Other PA	50M	BPSK	135	68	DFT-15	Left Side	10mm	Ant 2	DSI 4	507000	2535	19.60	20.50	1.230	0.02	0.145	0.178
	N7_Other PA	50M	BPSK	135	68	DFT-15	Right Side	10mm	Ant 2	DSI 4	507000	2535	19.60	20.50	1.230	-0.07	0.057	0.070
	N7_Other PA	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	Ant 2	DSI 4	507000	2535	19.60	20.50	1.230	0.03	0.443	0.545
	N38_Other PA	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 1	DSI 4	519000	2595	18.49	20.00	1.416	0.15	0.118	0.167
	N38_Other PA	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 1	DSI 4	519000	2595	18.49	20.00	1.416	0.13	0.240	0.340
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 1	DSI 4	519000	2595	18.49	20.00	1.416	0.1	0.110	0.156
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 1	DSI 4	519000	2595	18.49	20.00	1.416	0	0.023	0.033
	N38_Other PA	40M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 1	DSI 4	519000	2595	18.49	20.00	1.416	-0.11	0.386	0.546
	N38_Other PA	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 1	DSI 4	519000	2595	18.45	20.00	1.429	-0.11	0.113	0.161
	N38_Other PA	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 1	DSI 4	519000	2595	18.45	20.00	1.429	0.01	0.215	0.307
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 1	DSI 4	519000	2595	18.45	20.00	1.429	-0.14	0.101	0.144
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 1	DSI 4	519000	2595	18.45	20.00	1.429	-0.03	0.019	0.027
	N38_Other PA	40M	BPSK	50	28	DFT-30	Top Side	10mm	Ant 1	DSI 4	519000	2595	18.45	20.00	1.429	-0.08	0.333	0.476
	N38_Other PA	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 3	DSI 4	519000	2595	17.15	18.20	1.274	0	0.065	0.083
	N38_Other PA	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 3	DSI 4	519000	2595	17.15	18.20	1.274	-0.14	0.054	0.069
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 3	DSI 4	519000	2595	17.15	18.20	1.274	0.04	0.075	0.096
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 3	DSI 4	519000	2595	17.15	18.20	1.274	0.03	0.023	0.029
	N38_Other PA	40M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 3	DSI 4	519000	2595	17.15	18.20	1.274	0.02	0.014	0.018
	N38_Other PA	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 3	DSI 4	519000	2595	17.10	18.20	1.288	-0.09	0.069	0.089
	N38_Other PA	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 3	DSI 4	519000	2595	17.10	18.20	1.288	0.12	0.058	0.075
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 3	DSI 4	519000	2595	17.10	18.20	1.288	-0.15	0.077	0.099
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 3	DSI 4	519000	2595	17.10	18.20	1.288	-0.01	0.025	0.032
	N38_Other PA	40M	BPSK	50	28	DFT-30	Top Side	10mm	Ant 3	DSI 4	519000	2595	17.10	18.20	1.288	0.16	0.013	0.017
	N38_Other PA	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 0	DSI 4	519000	2595	21.99	23.50	1.416	0.13	0.230	0.326
	N38_Other PA	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	519000	2595	21.99	23.50	1.416	-0.12	0.225	0.319
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 0	DSI 4	519000	2595	21.99	23.50	1.416	0	0.042	0.059
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 0	DSI 4	519000	2595	21.99	23.50	1.416	-0.07	0.217	0.307
	N38_Other PA	40M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	519000	2595	21.99	23.50	1.416	-0.09	0.371	0.525

	N38_Other PA	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 0	DSI 4	519000	2595	21.77	23.50	1.489	0.15	0.205	0.305
	N38_Other PA	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 0	DSI 4	519000	2595	21.77	23.50	1.489	-0.1	0.202	0.301
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 0	DSI 4	519000	2595	21.77	23.50	1.489	-0.12	0.038	0.057
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 0	DSI 4	519000	2595	21.77	23.50	1.489	0.08	0.180	0.268
	N38_Other PA	40M	BPSK	50	28	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	519000	2595	21.77	23.50	1.489	0.13	0.326	0.486
	N38_Other PA	40M	BPSK	1	1	DFT-30	Front	10mm	Ant 2	DSI 4	519000	2595	19.87	21.00	1.297	-0.08	0.300	0.389
	N38_Other PA	40M	BPSK	1	1	DFT-30	Back	10mm	Ant 2	DSI 4	519000	2595	19.87	21.00	1.297	-0.15	0.348	0.451
	N38_Other PA	40M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 2	DSI 4	519000	2595	19.87	21.00	1.297	-0.16	0.131	0.170
	N38_Other PA	40M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 2	DSI 4	519000	2595	19.87	21.00	1.297	0.07	0.065	0.084
	N38_Other PA	40M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	519000	2595	19.87	21.00	1.297	-0.05	0.424	0.550
	N38_Other PA	40M	BPSK	50	28	DFT-30	Front	10mm	Ant 2	DSI 4	519000	2595	19.75	21.00	1.334	-0.06	0.268	0.357
	N38_Other PA	40M	BPSK	50	28	DFT-30	Back	10mm	Ant 2	DSI 4	519000	2595	19.75	21.00	1.334	0.04	0.334	0.445
	N38_Other PA	40M	BPSK	50	28	DFT-30	Left Side	10mm	Ant 2	DSI 4	519000	2595	19.75	21.00	1.334	0.1	0.119	0.159
	N38_Other PA	40M	BPSK	50	28	DFT-30	Right Side	10mm	Ant 2	DSI 4	519000	2595	19.75	21.00	1.334	0.02	0.052	0.069
	N38_Other PA	40M	BPSK	50	28	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	519000	2595	19.75	21.00	1.334	0.04	0.374	0.499
	N41_Other PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 1	DSI 4	518598	2592.99	18.76	20.00	1.330	-0.08	0.130	0.173
	N41_Other PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 1	DSI 4	518598	2592.99	18.76	20.00	1.330	-0.05	0.235	0.313
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 1	DSI 4	518598	2592.99	18.76	20.00	1.330	-0.16	0.131	0.174
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 1	DSI 4	518598	2592.99	18.76	20.00	1.330	-0.03	0.013	0.017
	N41_Other PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 1	DSI 4	518598	2592.99	18.76	20.00	1.330	-0.08	0.396	0.527
	N41_Other PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 1	DSI 4	518598	2592.99	18.73	20.00	1.340	0.12	0.136	0.182
	N41_Other PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 1	DSI 4	518598	2592.99	18.73	20.00	1.340	0.1	0.267	0.358
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 1	DSI 4	518598	2592.99	18.73	20.00	1.340	0.11	0.142	0.190
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 1	DSI 4	518598	2592.99	18.73	20.00	1.340	0.14	0.017	0.023
	N41_Other PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 1	DSI 4	518598	2592.99	18.73	20.00	1.340	-0.11	0.410	0.549
	N41_Other PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 3	DSI 4	518598	2592.99	17.77	18.70	1.239	0.07	0.130	0.161
	N41_Other PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 3	DSI 4	518598	2592.99	17.77	18.70	1.239	-0.1	0.112	0.139
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 3	DSI 4	518598	2592.99	17.77	18.70	1.239	0.1	0.158	0.196
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 3	DSI 4	518598	2592.99	17.77	18.70	1.239	-0.03	0.013	0.016
	N41_Other PA	100M	BPSK	1	1	DFT-30	Top Side	10mm	Ant 3	DSI 4	518598	2592.99	17.77	18.70	1.239	0.1	0.021	0.026
	N41_Other PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 3	DSI 4	518598	2592.99	17.75	18.70	1.245	0.12	0.148	0.184
	N41_Other PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 3	DSI 4	518598	2592.99	17.75	18.70	1.245	0.1	0.116	0.144
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 3	DSI 4	518598	2592.99	17.75	18.70	1.245	0.14	0.165	0.205
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 3	DSI 4	518598	2592.99	17.75	18.70	1.245	0.02	0.016	0.020
	N41_Other PA	100M	BPSK	135	69	DFT-30	Top Side	10mm	Ant 3	DSI 4	518598	2592.99	17.75	18.70	1.245	0.13	0.023	0.029
	N41_Other PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 0	DSI 4	518598	2592.99	22.96	24.00	1.271	-0.16	0.218	0.277
	N41_Other PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 0	DSI 4	518598	2592.99	22.96	24.00	1.271	-0.15	0.181	0.230
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 0	DSI 4	518598	2592.99	22.96	24.00	1.271	-0.07	0.042	0.053
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 0	DSI 4	518598	2592.99	22.96	24.00	1.271	0.01	0.143	0.182
	N41_Other PA	100M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	518598	2592.99	22.96	24.00	1.271	-0.09	0.396	0.503
	N41_Other PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 0	DSI 4	518598	2592.99	22.92	24.00	1.282	-0.1	0.248	0.318
	N41_Other PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 0	DSI 4	518598	2592.99	22.92	24.00	1.282	0.04	0.203	0.260
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 0	DSI 4	518598	2592.99	22.92	24.00	1.282	0.13	0.061	0.078
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 0	DSI 4	518598	2592.99	22.92	24.00	1.282	-0.09	0.220	0.282
	N41_Other PA	100M	BPSK	135	69	DFT-30	Bottom Side	10mm	Ant 0	DSI 4	518598	2592.99	22.92	24.00	1.282	0.13	0.426	0.546
	N41_Other PA	100M	BPSK	1	1	DFT-30	Front	10mm	Ant 2	DSI 4	518598	2592.99	19.70	20.70	1.259	-0.05	0.279	0.351
	N41_Other PA	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 2	DSI 4	518598	2592.99	19.70	20.70	1.259	0.14	0.324	0.408
	N41_Other PA	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 2	DSI 4	518598	2592.99	19.70	20.70	1.259	0.15	0.141	0.178
	N41_Other PA	100M	BPSK	1	1	DFT-30	Right Side	10mm	Ant 2	DSI 4	518598	2592.99	19.70	20.70	1.259	-0.07	0.021	0.026
	N41_Other PA	100M	BPSK	1	1	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	518598	2592.99	19.70	20.70	1.259	-0.1	0.402	0.506
	N41_Other PA	100M	BPSK	135	69	DFT-30	Front	10mm	Ant 2	DSI 4	518598	2592.99	19.66	20.70	1.271	-0.03	0.271	0.344
	N41_Other PA	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 2	DSI 4	518598	2592.99	19.66	20.70	1.271	-0.11	0.311	0.395
	N41_Other PA	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 2	DSI 4	518598	2592.99	19.66	20.70	1.271	0.14	0.132	0.168
	N41_Other PA	100M	BPSK	135	69	DFT-30	Right Side	10mm	Ant 2	DSI 4	518598	2592.99	19.66	20.70	1.271	-0.15	0.018	0.023
	N41_Other PA	100M	BPSK	135	69	DFT-30	Bottom Side	10mm	Ant 2	DSI 4	518598	2592.99	19.66	20.70	1.271	-0.16	0.370	0.470

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
2450MHz																
	Bluetooth	DH5 1Mbps	Front	10mm	Ant 16	Full	39	2441	15.10	16.50	1.380	76.8	1.302	0.05	0.050	0.090
	Bluetooth	DH5 1Mbps	Back	10mm	Ant 16	Full	39	2441	15.10	16.50	1.380	76.8	1.302	-0.13	0.063	0.113
	Bluetooth	DH5 1Mbps	Left Side	10mm	Ant 16	Full	39	2441	15.10	16.50	1.380	76.8	1.302	-0.09	0.011	0.020
	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 16	Full	39	2441	15.10	16.50	1.380	76.8	1.302	-0.14	0.026	0.047
50	Bluetooth	DH5 1Mbps	Top Side	10mm	Ant 16	Full	39	2441	15.10	16.50	1.380	76.8	1.302	-0.1	0.092	**0.166**
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 16+18	hotspot on	1	2412	19.76	20.50	1.186	99.53	1.005	0.1	0.124	0.148
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 16+18	hotspot on	1	2412	19.76	20.50	1.186	99.53	1.005	-0.03	0.186	0.222
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 16+18	hotspot on	1	2412	19.76	20.50	1.186	99.53	1.005	-0.06	0.034	0.041
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 16+18	hotspot on	1	2412	19.76	20.50	1.186	99.53	1.005	-0.1	0.164	0.195
51	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 16+18	hotspot on	1	2412	19.76	20.50	1.186	99.53	1.005	0.09	0.220	**0.262**
5250-5750MHz																
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10mm	Ant 17+18	hotspot on	46	5230	15.76	17.00	1.330	94.2	1.062	-0.09	0.102	0.144
52	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant 17+18	hotspot on	46	5230	15.76	17.00	1.330	94.2	1.062	-0.08	0.202	**0.285**
	WLAN5.2GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 17+18	hotspot on	46	5230	15.76	17.00	1.330	94.2	1.062	0.09	0.026	0.037
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 17+18	hotspot on	46	5230	15.76	17.00	1.330	94.2	1.062	-0.16	0.119	0.168
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 17+18	hotspot on	46	5230	15.76	17.00	1.330	94.2	1.062	0.14	0.093	0.131
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 17+18	hotspot on	155	5775	14.97	16.00	1.268	86.49	1.156	-0.05	0.124	0.182
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 17+18	hotspot on	155	5775	14.97	16.00	1.268	86.49	1.156	-0.02	0.155	0.227
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 17+18	hotspot on	155	5775	14.97	16.00	1.268	86.49	1.156	-0.03	0.016	0.023
53	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 17+18	hotspot on	155	5775	14.97	16.00	1.268	86.49	1.156	0.09	0.159	**0.233**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 17+18	hotspot on	155	5775	14.97	16.00	1.268	86.49	1.156	0.16	0.147	0.216

15.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
750MHz																				
	LTE Band 12	10M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	23095	707.5	24.23	25.50	1.340	-	-	0.13	0.160	0.214
	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	23095	707.5	24.23	25.50	1.340	-	-	-0.02	0.183	0.245
	LTE Band 12	10M	QPSK	25	0	-	Front	15mm	Ant 1	DSI 3	23095	707.5	23.27	24.50	1.327	-	-	-0.07	0.129	0.171
	LTE Band 12	10M	QPSK	25	0	-	Back	15mm	Ant 1	DSI 3	23095	707.5	23.27	24.50	1.327	-	-	-0.07	0.143	0.190
	LTE Band 12	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 3	23095	707.5	24.77	25.70	1.239	-	-	-0.13	0.202	0.250
54	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 3	23095	707.5	24.77	25.70	1.239	-	-	0.06	0.262	**0.325**
	LTE Band 12	10M	QPSK	25	0	-	Front	15mm	Ant 0	DSI 3	23095	707.5	23.84	24.70	1.219	-	-	0.11	0.171	0.208
	LTE Band 12	10M	QPSK	25	0	-	Back	15mm	Ant 0	DSI 3	23095	707.5	23.84	24.70	1.219	-	-	0.01	0.182	0.222
	LTE Band 13	10M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	23230	782	24.00	25.50	1.413	-	-	0.09	0.095	0.134
	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	23230	782	24.00	25.50	1.413	-	-	0.07	0.143	0.202
	LTE Band 13	10M	QPSK	25	0	-	Front	15mm	Ant 1	DSI 3	23230	782	22.89	24.50	1.449	-	-	-0.12	0.080	0.116
	LTE Band 13	10M	QPSK	25	0	-	Back	15mm	Ant 1	DSI 3	23230	782	22.89	24.50	1.449	-	-	-0.09	0.108	0.156
	LTE Band 13	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 3	23230	782	24.51	25.70	1.315	-	-	-0.02	0.257	0.338
55	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 3	23230	782	24.51	25.70	1.315	-	-	0.01	0.356	**0.468**
	LTE Band 13	10M	QPSK	25	0	-	Front	15mm	Ant 0	DSI 3	23230	782	23.55	24.70	1.303	-	-	-0.07	0.196	0.255
	LTE Band 13	10M	QPSK	25	0	-	Back	15mm	Ant 0	DSI 3	23230	782	23.55	24.70	1.303	-	-	0.03	0.305	0.397
835MHz																				
	GSM850	-	-	-	-	GPRS 2 TX slots	Front	15mm	Ant 1	DSI 3	189	836.4	29.75	31.50	1.496	-	-	-0.02	0.093	0.139
	GSM850	-	-	-	-	GPRS 2 TX slots	Back	15mm	Ant 1	DSI 3	189	836.4	29.75	31.50	1.496	-	-	-0.15	0.139	0.208
	GSM850	-	-	-	-	GPRS 2 TX slots	Front	15mm	Ant 0	DSI3	189	836.4	30.11	31.00	1.227	-	-	-0.04	0.198	0.243
56	GSM850	-	-	-	-	GPRS 2 TX slots	Back	15mm	Ant 0	DSI3	189	836.4	30.11	31.00	1.227	-	-	0.01	0.245	**0.301**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	DSI 3	4182	836.4	24.09	25.50	1.384	-	-	0.07	0.146	0.202
57	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 3	4182	836.4	24.09	25.50	1.384	-	-	-0.09	0.218	**0.302**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	DSI3	4182	836.4	24.08	25.00	1.236	-	-	-0.16	0.209	0.258
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DSI3	4182	836.4	24.08	25.00	1.236	-	-	0.1	0.219	0.271
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	26865	831.5	24.18	25.70	1.419	-	-	0.15	0.132	0.187
	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	26865	831.5	24.18	25.70	1.419	-	-	0.11	0.213	0.302
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 1	DSI 3	26865	831.5	23.00	24.70	1.479	-	-	0.09	0.113	0.167
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 1	DSI 3	26865	831.5	23.00	24.70	1.479	-	-	0.07	0.188	0.278
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 3	26865	831.5	24.33	25.50	1.309	-	-	0.07	0.212	0.278
58	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 3	26865	831.5	24.33	25.50	1.309	-	-	0.1	0.283	**0.370**
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 0	DSI 3	26865	831.5	23.14	24.50	1.368	-	-	-0.14	0.191	0.261
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 0	DSI 3	26865	831.5	23.14	24.50	1.368	-	-	0.01	0.202	0.276
	LTE Band 5	10M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	20525	836.5	24.62	25.70	1.282	-	-	-0.15	0.162	0.208
	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	20525	836.5	24.62	25.70	1.282	-	-	-0.06	0.239	0.306
	LTE Band 5	10M	QPSK	25	0	-	Front	15mm	Ant 1	DSI 3	20525	836.5	23.72	24.70	1.253	-	-	0.01	0.125	0.157
	LTE Band 5	10M	QPSK	25	0	-	Back	15mm	Ant 1	DSI 3	20525	836.5	23.72	24.70	1.253	-	-	-0.15	0.198	0.248
	LTE Band 5	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI3	20525	836.5	24.64	25.70	1.276	-	-	-0.1	0.251	0.320
59	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI3	20525	836.5	24.64	25.70	1.276	-	-	-0.08	0.341	**0.435**
	LTE Band 5	10M	QPSK	25	0	-	Front	15mm	Ant 0	DSI3	20525	836.5	23.58	24.70	1.294	-	-	-0.15	0.206	0.267
	LTE Band 5	10M	QPSK	25	0	-	Back	15mm	Ant 0	DSI3	20525	836.5	23.58	24.70	1.294	-	-	-0.1	0.299	0.387
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	DSI 3	1413	1732.6	23.40	24.50	1.288	-	-	-0.09	0.354	0.456
60	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 3	1413	1732.6	23.40	24.50	1.288	-	-	0.14	0.565	**0.728**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	DSI3	1413	1732.6	24.30	25.00	1.175	-	-	-0.02	0.373	0.438
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	DSI3	1413	1732.6	24.30	25.00	1.175	-	-	0.14	0.496	0.583
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	20175	1732.5	23.10	24.50	1.380	-	-	0.06	0.148	0.204
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	20175	1732.5	23.10	24.50	1.380	-	-	0.05	0.270	0.373
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	20175	1732.5	22.15	23.50	1.365	-	-	0.03	0.147	0.201

	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	20175	1732.5	22.15	23.50	1.365	-	-	-0.05	0.226	0.308
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	20175	1732.5	23.25	25.00	1.496	-	-	-0.16	0.126	0.189
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	20175	1732.5	23.25	25.00	1.496	-	-	0.15	0.160	0.239
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	20175	1732.5	22.34	24.00	1.466	-	-	-0.09	0.109	0.160
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 3	20175	1732.5	22.34	24.00	1.466	-	-	0.04	0.117	0.171
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 0	DSI3	20175	1732.5	22.97	24.00	1.268	-	-	-0.11	0.148	0.188
	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI3	20175	1732.5	22.97	24.00	1.268	-	-	-0.02	0.194	0.246
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 0	DSI3	20175	1732.5	22.05	23.00	1.245	-	-	-0.03	0.103	0.128
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI3	20175	1732.5	22.05	23.00	1.245	-	-	-0.08	0.151	0.188
	LTE Band 4	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI3	20175	1732.5	24.09	25.00	1.233	-	-	0.15	0.355	0.438
61	LTE Band 4	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI3	20175	1732.5	24.09	25.00	1.233	-	-	-0.04	0.507	**0.625**
	LTE Band 4	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI3	20175	1732.5	23.15	24.00	1.216	-	-	-0.11	0.289	0.351
	LTE Band 4	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI3	20175	1732.5	23.15	24.00	1.216	-	-	-0.08	0.344	0.418
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	132322	1745	22.52	23.50	1.253	-	-	0.02	0.164	0.206
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	132322	1745	22.52	23.50	1.253	-	-	0.11	0.258	0.323
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	132322	1745	21.61	22.50	1.227	-	-	0.07	0.123	0.151
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	132322	1745	21.61	22.50	1.227	-	-	-0.08	0.204	0.250
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	132322	1745	22.55	24.00	1.396	-	-	-0.07	0.104	0.145
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	132322	1745	22.55	24.00	1.396	-	-	-0.1	0.137	0.191
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	132322	1745	21.43	23.00	1.435	-	-	0.1	0.098	0.141
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 3	132322	1745	21.43	23.00	1.435	-	-	-0.11	0.121	0.174
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 0	DSI3	132322	1745	21.96	23.00	1.271	-	-	-0.13	0.130	0.165
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI3	132322	1745	21.96	23.00	1.271	-	-	0.12	0.186	0.236
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 0	DSI3	132322	1745	20.95	22.00	1.274	-	-	-0.03	0.100	0.127
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI3	132322	1745	20.95	22.00	1.274	-	-	-0.07	0.157	0.200
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI3	132322	1745	23.25	24.00	1.189	-	-	-0.01	0.317	0.377
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI3	132322	1745	23.25	24.00	1.189	-	-	-0.09	0.361	0.429
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI3	132322	1745	22.22	23.00	1.197	-	-	-0.15	0.220	0.263
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI3	132322	1745	22.22	23.00	1.197	-	-	0.06	0.256	0.306
1900MHz																				
	GSM1900	-	-	-	-	GPRS 1 TX slots	Front	15mm	Ant 1	DSI 3	661	1880	29.04	30.50	1.400	-	-	-0.13	0.221	0.309
62	GSM1900	-	-	-	-	GPRS 1 TX slots	Back	15mm	Ant 1	DSI 3	661	1880	29.04	30.50	1.400	-	-	-0.04	0.456	**0.638**
	GSM1900	-	-	-	-	GPRS 4 TX slots	Front	15mm	Ant 2	DSI3	661	1880	23.73	25.00	1.340	-	-	-0.09	0.113	0.151
	GSM1900	-	-	-	-	GPRS 4 TX slots	Back	15mm	Ant 2	DSI3	661	1880	23.73	25.00	1.340	-	-	0.05	0.169	0.226
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	DSI 3	9400	1880	22.07	23.50	1.390	-	-	0.03	0.426	0.592
63	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 3	9400	1880	22.07	23.50	1.390	-	-	-0.15	0.783	**1.088**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 3	9262	1852.4	22.03	23.50	1.403	-	-	0.11	0.673	0.944
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 3	9538	1907.6	21.92	23.50	1.439	-	-	-0.16	0.632	0.909
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	DSI3	9400	1880	24.19	25.00	1.205	-	-	-0.12	0.388	0.468
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	DSI3	9400	1880	24.19	25.00	1.205	-	-	0.05	0.487	0.587
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	18900	1880	22.73	24.00	1.340	-	-	-0.01	0.188	0.252
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	18900	1880	22.73	24.00	1.340	-	-	0.06	0.210	0.281
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	18900	1880	21.65	23.00	1.365	-	-	0.02	0.155	0.212
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 3	18900	1880	21.65	23.00	1.365	-	-	0.06	0.178	0.243
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI3	18900	1880	22.54	24.00	1.400	-	-	-0.02	0.279	0.390
64	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI3	18900	1880	22.54	24.00	1.400	-	-	0.03	0.392	**0.549**
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI3	18900	1880	21.60	23.00	1.380	-	-	0.07	0.218	0.301
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI3	18900	1880	21.60	23.00	1.380	-	-	-0.02	0.311	0.429
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	21100	2535	22.47	24.00	1.422	-	-	0.13	0.134	0.191
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	21100	2535	22.47	24.00	1.422	-	-	-0.09	0.253	0.360
	LTE Band 7C	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	21100+ 20902	2535+ 2515.2	22.43	24.00	1.435	-	-	0.03	0.202	0.290
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	21100	2535	21.55	23.00	1.396	-	-	-0.02	0.130	0.182
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	21100	2535	21.55	23.00	1.396	-	-	-0.15	0.231	0.323

	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	21100	2535	23.60	25.00	1.380	-	-	-0.1	0.207	0.286
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	21100	2535	23.60	25.00	1.380	-	-	-0.15	0.272	0.375
	LTE Band 7C	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	21100+ 20902	2535+ 2515.2	23.45	25.00	1.429	-	-	0.07	0.250	0.357
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	21100	2535	22.75	24.00	1.334	-	-	0.11	0.180	0.240
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 3	21100	2535	22.75	24.00	1.334	-	-	0.13	0.249	0.332
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 0	DSI3	21100	2535	22.14	23.00	1.219	-	-	-0.06	0.091	0.111
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI3	21100	2535	22.14	23.00	1.219	-	-	-0.06	0.140	0.171
	LTE Band 7C	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI3	21100+ 20902	2535+ 2515.2	22.13	23.00	1.222	-	-	0.06	0.124	0.152
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 0	DSI3	21100	2535	21.20	22.00	1.202	-	-	0.02	0.082	0.099
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI3	21100	2535	21.20	22.00	1.202	-	-	0.01	0.131	0.157
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI3	21100	2535	23.63	24.50	1.222	-	-	0.08	0.431	0.527
65	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI3	21100	2535	23.63	24.50	1.222	-	-	-0.15	0.688	**0.841**
	LTE Band 7C	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI3	21100+ 20902	2535+ 2515.2	23.62	24.50	1.225	-	-	0.09	0.663	0.812
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI3	20850	2510	23.57	24.50	1.239	-	-	0.02	0.633	0.784
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI3	21350	2560	23.48	24.50	1.265	-	-	0.09	0.653	0.826
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI3	21100	2535	22.53	23.50	1.250	-	-	0.12	0.363	0.454
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI3	21100	2535	22.53	23.50	1.250	-	-	0.07	0.651	0.814
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI3	20850	2510	22.52	23.50	1.253	-	-	0.08	0.602	0.754
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI3	21350	2560	22.44	23.50	1.276	-	-	-0.13	0.637	0.813
	LTE Band 7	20M	QPSK	100	0		Back	15mm	Ant 2	DSI3	21100	2535	22.47	23.50	1.268	-	-	0.02	0.632	0.801
	LTE Band 38	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	38000	2595	23.35	25.00	1.462	62.9	1.006	-0.02	0.115	0.169
	LTE Band 38	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	38000	2595	23.35	25.00	1.462	62.9	1.006	-0.16	0.127	0.187
	LTE Band 38C	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI3	37901+ 38099	2585.1+ 2604.9	23.29	25.00	1.483	62.9	1.006	0.05	0.109	0.163
	LTE Band 38	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	38000	2595	22.45	24.00	1.429	62.9	1.006	0.13	0.089	0.128
	LTE Band 38	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	38000	2595	22.45	24.00	1.429	62.9	1.006	0.1	0.101	0.145
	LTE Band 38	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	38000	2595	24.59	25.70	1.291	62.9	1.006	-0.15	0.228	0.296
	LTE Band 38	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	38000	2595	24.59	25.70	1.291	62.9	1.006	-0.1	0.258	0.335
	LTE Band 38C	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI3	37901+ 38099	2585.1+ 2604.9	24.55	25.70	1.303	62.9	1.006	0.09	0.206	0.270
	LTE Band 38	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	38000	2595	23.76	24.70	1.242	62.9	1.006	-0.13	0.179	0.224
	LTE Band 38	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 3	38000	2595	23.76	24.70	1.242	62.9	1.006	-0.12	0.198	0.247
	LTE Band 38	20M	QPSK	1	0	-	Front	15mm	Ant 0	DSI3	38000	2595	22.88	24.00	1.294	62.9	1.006	0.14	0.075	0.098
	LTE Band 38	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI3	38000	2595	22.88	24.00	1.294	62.9	1.006	0.06	0.126	0.164
	LTE Band 38C	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI3	37901+ 38099	2585.1+ 2604.9	22.83	24.00	1.309	62.9	1.006	0.09	0.105	0.138
	LTE Band 38	20M	QPSK	50	0	-	Front	15mm	Ant 0	DSI3	38000	2595	21.78	23.00	1.324	62.9	1.006	0.07	0.064	0.085
	LTE Band 38	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI3	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.14	0.111	0.148
	LTE Band 38	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI3	38000	2595	24.64	25.50	1.219	62.9	1.006	-0.15	0.284	0.348
66	LTE Band 38	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI3	38000	2595	24.64	25.50	1.219	62.9	1.006	-0.16	0.327	**0.401**
	LTE Band 38C	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI3	37901+ 38099	2585.1+ 2604.9	24.63	25.50	1.222	62.9	1.006	0.01	0.306	0.376
	LTE Band 38	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI3	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.14	0.226	0.290
	LTE Band 38	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI3	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.06	0.298	0.382
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	40620	2593	23.63	25.00	1.371	62.9	1.006	0.06	0.101	0.139
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	40620	2593	23.63	25.00	1.371	62.9	1.006	0.02	0.147	0.203
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	40620	2593	22.66	24.00	1.361	62.9	1.006	0.05	0.098	0.134
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	40620	2593	22.66	24.00	1.361	62.9	1.006	0.05	0.141	0.193
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	40620	2593	24.75	25.70	1.245	62.9	1.006	0.14	0.243	0.304
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	40620	2593	24.75	25.70	1.245	62.9	1.006	0.02	0.265	0.332
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	40620	2593	23.90	24.70	1.202	62.9	1.006	-0.12	0.197	0.238
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 3	40620	2593	23.90	24.70	1.202	62.9	1.006	-0.14	0.213	0.258
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 0	DSI3	40620	2593	22.90	24.00	1.288	62.9	1.006	0.1	0.073	0.095
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 0	DSI3	40620	2593	22.90	24.00	1.288	62.9	1.006	-0.14	0.126	0.163
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 0	DSI3	40620	2593	21.98	23.00	1.265	62.9	1.006	0.13	0.066	0.084
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 0	DSI3	40620	2593	21.98	23.00	1.265	62.9	1.006	0.01	0.108	0.137
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI3	40620	2593	24.73	25.70	1.250	62.9	1.006	-0.08	0.291	0.366
67	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI3	40620	2593	24.73	25.70	1.250	62.9	1.006	-0.08	0.378	**0.475**

	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI3	40620	2593	23.77	24.70	1.239	62.9	1.006	-0.14	0.223	0.278
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI3	40620	2593	23.77	24.70	1.239	62.9	1.006	-0.03	0.317	0.395

DL CA / Inter-band CA & EN-DC LTE Main PA

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	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)
750MHz																			
	LTE Band 12_Main PA	10M	QPSK	1	0	Front	15mm	Ant 1	DSI 3	23095	707.5	24.23	25.50	1.340	-	-	0.13	0.160	0.214
	LTE Band 12_Main PA	10M	QPSK	1	0	Back	15mm	Ant 1	DSI 3	23095	707.5	24.23	25.50	1.340	-	-	-0.02	0.183	0.245
	LTE Band 12_Main PA	10M	QPSK	25	0	Front	15mm	Ant 1	DSI 3	23095	707.5	23.27	24.50	1.327	-	-	-0.07	0.129	0.171
	LTE Band 12_Main PA	10M	QPSK	25	0	Back	15mm	Ant 1	DSI 3	23095	707.5	23.27	24.50	1.327	-	-	-0.07	0.143	0.190
	LTE Band 12_Main PA	10M	QPSK	1	0	Front	15mm	Ant 0	DSI 3	23095	707.5	24.77	25.70	1.239	-	-	-0.13	0.202	0.250
	LTE Band 12_Main PA	10M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	23095	707.5	24.77	25.70	1.239	-	-	0.06	0.262	0.325
	LTE Band 12_Main PA	10M	QPSK	25	0	Front	15mm	Ant 0	DSI 3	23095	707.5	23.84	24.70	1.219	-	-	0.11	0.171	0.208
	LTE Band 12_Main PA	10M	QPSK	25	0	Back	15mm	Ant 0	DSI 3	23095	707.5	23.84	24.70	1.219	-	-	0.01	0.182	0.222
835MHz																			
	LTE Band 5_Main PA	10M	QPSK	1	0	Front	15mm	Ant 1	DSI 3	20525	836.5	24.62	25.70	1.282	-	-	-0.15	0.162	0.208
	LTE Band 5_Main PA	10M	QPSK	1	0	Back	15mm	Ant 1	DSI 3	20525	836.5	24.62	25.70	1.282	-	-	-0.06	0.239	0.306
	LTE Band 5_Main PA	10M	QPSK	25	0	Front	15mm	Ant 1	DSI 3	20525	836.5	23.72	24.70	1.253	-	-	0.01	0.125	0.157
	LTE Band 5_Main PA	10M	QPSK	25	0	Back	15mm	Ant 1	DSI 3	20525	836.5	23.72	24.70	1.253	-	-	-0.15	0.198	0.248
	LTE Band 5_Main PA	10M	QPSK	1	0	Front	15mm	Ant 0	DSI3	20525	836.5	24.64	25.70	1.276	-	-	-0.1	0.251	0.320
	LTE Band 5_Main PA	10M	QPSK	1	0	Back	15mm	Ant 0	DSI3	20525	836.5	24.64	25.70	1.276	-	-	-0.08	0.341	0.435
	LTE Band 5_Main PA	10M	QPSK	25	0	Front	15mm	Ant 0	DSI3	20525	836.5	23.58	24.70	1.294	-	-	-0.15	0.206	0.267
	LTE Band 5_Main PA	10M	QPSK	25	0	Back	15mm	Ant 0	DSI3	20525	836.5	23.58	24.70	1.294	-	-	-0.1	0.299	0.387
1750MHz																			
	LTE Band 4_Main PA	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	20175	1732.5	23.25	25.00	1.496	-	-	-0.16	0.126	0.189
	LTE Band 4_Main PA	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	20175	1732.5	23.25	25.00	1.496	-	-	0.15	0.160	0.239
	LTE Band 4_Main PA	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	20175	1732.5	22.34	24.00	1.466	-	-	-0.09	0.109	0.160
	LTE Band 4_Main PA	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	20175	1732.5	22.34	24.00	1.466	-	-	0.04	0.117	0.171
	LTE Band 4_Main PA	20M	QPSK	1	0	Front	15mm	Ant 2	DSI3	20175	1732.5	23.66	24.50	1.213	-	-	-0.15	0.316	0.383
	LTE Band 4_Main PA	20M	QPSK	1	0	Back	15mm	Ant 2	DSI3	20175	1732.5	23.66	24.50	1.213	-	-	-0.15	0.452	0.548
	LTE Band 4_Main PA	20M	QPSK	50	0	Front	15mm	Ant 2	DSI3	20175	1732.5	23.21	24.00	1.199	-	-	0.02	0.258	0.309
	LTE Band 4_Main PA	20M	QPSK	50	0	Back	15mm	Ant 2	DSI3	20175	1732.5	23.21	24.00	1.199	-	-	-0.09	0.307	0.368
	LTE Band 66_Main PA	20M	QPSK	1	0	Front	15mm	Ant 1	DSI 3	132322	1745	22.52	23.50	1.253	-	-	0.02	0.164	0.206
	LTE Band 66_Main PA	20M	QPSK	1	0	Back	15mm	Ant 1	DSI 3	132322	1745	22.52	23.50	1.253	-	-	0.11	0.258	0.323
	LTE Band 66_Main PA	20M	QPSK	50	0	Front	15mm	Ant 1	DSI 3	132322	1745	21.61	22.50	1.227	-	-	0.07	0.123	0.151
	LTE Band 66_Main PA	20M	QPSK	50	0	Back	15mm	Ant 1	DSI 3	132322	1745	21.61	22.50	1.227	-	-	-0.08	0.204	0.250
	LTE Band 66_Main PA	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	132322	1745	22.55	24.00	1.396	-	-	-0.07	0.104	0.145
	LTE Band 66_Main PA	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	132322	1745	22.55	24.00	1.396	-	-	-0.1	0.137	0.191
	LTE Band 66_Main PA	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	132322	1745	21.43	23.00	1.435	-	-	0.1	0.098	0.141
	LTE Band 66_Main PA	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	132322	1745	21.43	23.00	1.435	-	-	-0.11	0.121	0.174
	LTE Band 66_Main PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI3	132322	1745	21.96	23.00	1.271	-	-	-0.13	0.130	0.165
	LTE Band 66_Main PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI3	132322	1745	21.96	23.00	1.271	-	-	0.12	0.186	0.236
	LTE Band 66_Main PA	20M	QPSK	50	0	Front	15mm	Ant 0	DSI3	132322	1745	20.95	22.00	1.274	-	-	-0.03	0.100	0.127
	LTE Band 66_Main PA	20M	QPSK	50	0	Back	15mm	Ant 0	DSI3	132322	1745	20.95	22.00	1.274	-	-	-0.07	0.157	0.200
	LTE Band 66_Main PA	20M	QPSK	1	0	Front	15mm	Ant 2	DSI3	132322	1745	23.25	24.00	1.189	-	-	-0.01	0.317	0.377
	LTE Band 66_Main PA	20M	QPSK	1	0	Back	15mm	Ant 2	DSI3	132322	1745	23.25	24.00	1.189	-	-	-0.09	0.361	0.429
	LTE Band 66_Main PA	20M	QPSK	50	0	Front	15mm	Ant 2	DSI3	132322	1745	22.22	23.00	1.197	-	-	-0.15	0.220	0.263
	LTE Band 66_Main PA	20M	QPSK	50	0	Back	15mm	Ant 2	DSI3	132322	1745	22.22	23.00	1.197	-	-	0.06	0.256	0.306
1900MHz																			
	LTE Band 2_Main PA	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	18900	1880	22.73	24.00	1.340	-	-	-0.01	0.188	0.252
	LTE Band 2_Main PA	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	18900	1880	22.73	24.00	1.340	-	-	0.06	0.210	0.281
	LTE Band 2_Main PA	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	18900	1880	21.65	23.00	1.365	-	-	0.02	0.155	0.212
	LTE Band 2_Main PA	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	18900	1880	21.65	23.00	1.365	-	-	0.06	0.178	0.243
	LTE Band 2_Main PA	20M	QPSK	1	0	Front	15mm	Ant 2	DSI3	18700	1860	22.54	24.00	1.400	-	-	-0.02	0.279	0.390

	LTE Band 2_Main PA	20M	QPSK	1	0	Back	15mm	Ant 2	DSI3	18700	1860	22.54	24.00	1.400	-	-	0.03	0.392	0.549
	LTE Band 2_Main PA	20M	QPSK	50	0	Front	15mm	Ant 2	DSI3	18700	1860	21.60	23.00	1.380	-	-	0.07	0.218	0.301
	LTE Band 2_Main PA	20M	QPSK	50	0	Back	15mm	Ant 2	DSI3	18700	1860	21.60	23.00	1.380	-	-	-0.02	0.311	0.429
2600MHz																			
	LTE Band 7_Main PA	20M	QPSK	1	0	Front	15mm	Ant 1	DSI 3	21100	2535	22.47	24.00	1.422	-	-	0.13	0.134	0.191
	LTE Band 7_Main PA	20M	QPSK	1	0	Back	15mm	Ant 1	DSI 3	21100	2535	22.47	24.00	1.422	-	-	-0.09	0.253	0.360
	LTE Band 7_Main PA	20M	QPSK	50	0	Front	15mm	Ant 1	DSI 3	21100	2535	21.55	23.00	1.396	-	-	-0.02	0.130	0.182
	LTE Band 7_Main PA	20M	QPSK	50	0	Back	15mm	Ant 1	DSI 3	21100	2535	21.55	23.00	1.396	-	-	-0.15	0.231	0.323
	LTE Band 7_Main PA	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	21100	2535	23.60	25.00	1.380	-	-	-0.1	0.207	0.286
	LTE Band 7_Main PA	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	21100	2535	23.60	25.00	1.380	-	-	-0.15	0.272	0.375
	LTE Band 7_Main PA	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	21100	2535	22.75	24.00	1.334	-	-	0.11	0.180	0.240
	LTE Band 7_Main PA	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	21100	2535	22.75	24.00	1.334	-	-	0.13	0.249	0.332
	LTE Band 7_Main PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI3	21100	2535	22.14	23.00	1.219	-	-	-0.06	0.091	0.111
	LTE Band 7_Main PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI3	21100	2535	22.14	23.00	1.219	-	-	-0.06	0.140	0.171
	LTE Band 7_Main PA	20M	QPSK	50	0	Front	15mm	Ant 0	DSI3	21100	2535	21.20	22.00	1.202	-	-	0.02	0.082	0.099
	LTE Band 7_Main PA	20M	QPSK	50	0	Back	15mm	Ant 0	DSI3	21100	2535	21.20	22.00	1.202	-	-	0.01	0.131	0.157
	LTE Band 7_Main PA	20M	QPSK	1	0	Front	15mm	Ant 2	DSI3	21100	2535	21.60	22.50	1.230	-	-	-0.14	0.272	0.335
	LTE Band 7_Main PA	20M	QPSK	1	0	Back	15mm	Ant 2	DSI3	21100	2535	21.60	22.50	1.230	-	-	-0.04	0.434	0.534
	LTE Band 7_Main PA	20M	QPSK	50	0	Front	15mm	Ant 2	DSI3	21100	2535	21.58	22.50	1.236	-	-	-0.1	0.229	0.283
	LTE Band 7_Main PA	20M	QPSK	50	0	Back	15mm	Ant 2	DSI3	21100	2535	21.58	22.50	1.236	-	-	-0.08	0.411	0.508
	LTE Band 38_Main PA	20M	QPSK	1	0	Front	15mm	Ant 1	DSI 3	38000	2595	23.35	25.00	1.462	62.9	1.006	-0.02	0.115	0.169
	LTE Band 38_Main PA	20M	QPSK	1	0	Back	15mm	Ant 1	DSI 3	38000	2595	23.35	25.00	1.462	62.9	1.006	-0.16	0.127	0.187
	LTE Band 38_Main PA	20M	QPSK	50	0	Front	15mm	Ant 1	DSI 3	38000	2595	22.45	24.00	1.429	62.9	1.006	0.13	0.089	0.128
	LTE Band 38_Main PA	20M	QPSK	50	0	Back	15mm	Ant 1	DSI 3	38000	2595	22.45	24.00	1.429	62.9	1.006	0.1	0.101	0.145
	LTE Band 38_Main PA	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	38000	2595	24.59	25.70	1.291	62.9	1.006	-0.15	0.228	0.296
	LTE Band 38_Main PA	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	38000	2595	24.59	25.70	1.291	62.9	1.006	-0.1	0.258	0.335
	LTE Band 38_Main PA	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	38000	2595	23.76	24.70	1.242	62.9	1.006	-0.13	0.179	0.224
	LTE Band 38_Main PA	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	38000	2595	23.76	24.70	1.242	62.9	1.006	-0.12	0.198	0.247
	LTE Band 38_Main PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI3	38000	2595	22.88	24.00	1.294	62.9	1.006	0.14	0.075	0.098
	LTE Band 38_Main PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI3	38000	2595	22.88	24.00	1.294	62.9	1.006	0.06	0.126	0.164
	LTE Band 38_Main PA	20M	QPSK	50	0	Front	15mm	Ant 0	DSI3	38000	2595	21.78	23.00	1.324	62.9	1.006	0.07	0.064	0.085
	LTE Band 38_Main PA	20M	QPSK	50	0	Back	15mm	Ant 0	DSI3	38000	2595	21.78	23.00	1.324	62.9	1.006	-0.14	0.111	0.148
	LTE Band 38_Main PA	20M	QPSK	1	0	Front	15mm	Ant 2	DSI3	38000	2595	24.64	25.50	1.219	62.9	1.006	-0.15	0.284	0.348
	LTE Band 38_Main PA	20M	QPSK	1	0	Back	15mm	Ant 2	DSI3	38000	2595	24.64	25.50	1.219	62.9	1.006	-0.16	0.327	0.401
	LTE Band 38_Main PA	20M	QPSK	50	0	Front	15mm	Ant 2	DSI3	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.14	0.226	0.290
	LTE Band 38_Main PA	20M	QPSK	50	0	Back	15mm	Ant 2	DSI3	38000	2595	23.45	24.50	1.274	62.9	1.006	-0.06	0.298	0.382
	LTE Band 41_Main PA	20M	QPSK	1	0	Front	15mm	Ant 1	DSI 3	40620	2593	23.63	25.00	1.371	62.9	1.006	0.06	0.101	0.139
	LTE Band 41_Main PA	20M	QPSK	1	0	Back	15mm	Ant 1	DSI 3	40620	2593	23.63	25.00	1.371	62.9	1.006	0.02	0.147	0.203
	LTE Band 41_Main PA	20M	QPSK	50	0	Front	15mm	Ant 1	DSI 3	40620	2593	22.66	24.00	1.361	62.9	1.006	0.05	0.098	0.134
	LTE Band 41_Main PA	20M	QPSK	50	0	Back	15mm	Ant 1	DSI 3	40620	2593	22.66	24.00	1.361	62.9	1.006	0.05	0.141	0.193
	LTE Band 41_Main PA	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	40620	2593	24.75	25.70	1.245	62.9	1.006	0.14	0.243	0.304
	LTE Band 41_Main PA	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	40620	2593	24.75	25.70	1.245	62.9	1.006	0.02	0.265	0.332
	LTE Band 41_Main PA	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	40620	2593	23.90	24.70	1.202	62.9	1.006	-0.12	0.197	0.238
	LTE Band 41_Main PA	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	40620	2593	23.90	24.70	1.202	62.9	1.006	-0.14	0.213	0.258
	LTE Band 41_Main PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI3	40620	2593	22.90	24.00	1.288	62.9	1.006	0.1	0.073	0.095
	LTE Band 41_Main PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI3	40620	2593	22.90	24.00	1.288	62.9	1.006	-0.14	0.126	0.163
	LTE Band 41_Main PA	20M	QPSK	50	0	Front	15mm	Ant 0	DSI3	40620	2593	21.98	23.00	1.265	62.9	1.006	0.13	0.066	0.084
	LTE Band 41_Main PA	20M	QPSK	50	0	Back	15mm	Ant 0	DSI3	40620	2593	21.98	23.00	1.265	62.9	1.006	0.01	0.108	0.137
	LTE Band 41_Main PA	20M	QPSK	1	0	Front	15mm	Ant 2	DSI3	40620	2593	24.73	25.70	1.250	62.9	1.006	-0.08	0.291	0.366
	LTE Band 41_Main PA	20M	QPSK	1	0	Back	15mm	Ant 2	DSI3	40620	2593	24.73	25.70	1.250	62.9	1.006	-0.08	0.378	0.475
	LTE Band 41_Main PA	20M	QPSK	50	0	Front	15mm	Ant 2	DSI3	40620	2593	23.77	24.70	1.239	62.9	1.006	-0.14	0.223	0.278
	LTE Band 41_Main PA	20M	QPSK	50	0	Back	15mm	Ant 2	DSI3	40620	2593	23.77	24.70	1.239	62.9	1.006	-0.03	0.317	0.395

DL CA / Inter-band CA & EN-DC LTE Other PA

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHz																	
	LTE Band 4_Other PA	20M	QPSK	1	0	Front	15mm	Ant 1	DSI 3	20175	1732.5	23.91	25.00	1.285	0.11	0.271	0.348
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	15mm	Ant 1	DSI 3	20175	1732.5	23.91	25.00	1.285	-0.02	0.422	0.542
	LTE Band 4_Other PA	20M	QPSK	50	0	Front	15mm	Ant 1	DSI 3	20175	1732.5	22.75	24.00	1.334	-0.14	0.247	0.329
	LTE Band 4_Other PA	20M	QPSK	50	0	Back	15mm	Ant 1	DSI 3	20175	1732.5	22.75	24.00	1.334	0.09	0.403	0.537
	LTE Band 4_Other PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 3	20175	1732.5	22.44	24.00	1.432	0.06	0.009	0.013
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	20175	1732.5	22.44	24.00	1.432	0.16	0.017	0.024
	LTE Band 4_Other PA	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 3	20175	1732.5	22.33	24.00	1.469	-0.07	0.007	0.010
	LTE Band 4_Other PA	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 3	20175	1732.5	22.33	24.00	1.469	-0.08	0.015	0.022
	LTE Band 66_Other PA	20M	QPSK	1	0	Front	15mm	Ant 1	DSI 3	132572	1770	23.03	24.00	1.250	0.09	0.245	0.306
68	LTE Band 66_Other PA	20M	QPSK	1	0	Back	15mm	Ant 1	DSI 3	132572	1770	23.03	24.00	1.250	0.01	0.428	**0.535**
	LTE Band 66_Other PA	20M	QPSK	50	0	Front	15mm	Ant 1	DSI 3	132572	1770	21.91	23.00	1.285	0.11	0.237	0.305
	LTE Band 66_Other PA	20M	QPSK	50	0	Back	15mm	Ant 1	DSI 3	132572	1770	21.91	23.00	1.285	0.01	0.406	0.522
	LTE Band 66_Other PA	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	132572	1770	21.32	22.50	1.312	-0.05	0.010	0.013
	LTE Band 66_Other PA	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	132572	1770	21.32	22.50	1.312	-0.15	0.017	0.023
	LTE Band 66_Other PA	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	132572	1770	20.27	21.50	1.327	0.14	0.009	0.012
	LTE Band 66_Other PA	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	132572	1770	20.27	21.50	1.327	0.06	0.015	0.020
	LTE Band 66_Other PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 3	132572	1770	22.57	24.00	1.390	0.08	0.100	0.139
	LTE Band 66_Other PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	132572	1770	22.57	24.00	1.390	-0.09	0.187	0.260
	LTE Band 66_Other PA	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 3	132572	1770	21.56	23.00	1.393	-0.04	0.092	0.128
	LTE Band 66_Other PA	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 3	132572	1770	21.56	23.00	1.393	0.02	0.134	0.187
	LTE Band 66_Other PA	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 3	132322	1745	21.42	23.00	1.439	0.02	0.009	0.013
	LTE Band 66_Other PA	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	132322	1745	21.42	23.00	1.439	-0.03	0.030	0.044
	LTE Band 66_Other PA	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 3	132322	1745	20.84	22.50	1.466	-0.03	0.007	0.010
	LTE Band 66_Other PA	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 3	132322	1745	20.84	22.50	1.466	-0.11	0.028	0.042
2600MHz																	
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 1	DSI 3	20850	2510	23.68	24.50	1.208	0.11	0.223	0.269
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 1	DSI 3	20850	2510	23.68	24.50	1.208	-0.16	0.339	0.409
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	15mm	Ant 1	DSI 3	20850	2510	22.61	23.50	1.227	-0.16	0.200	0.245
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	15mm	Ant 1	DSI 3	20850	2510	22.61	23.50	1.227	0.07	0.281	0.345
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 3	DSI 3	21350	2560	22.24	23.50	1.337	0.15	0.062	0.083
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 3	DSI 3	21350	2560	22.24	23.50	1.337	0	0.078	0.104
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	15mm	Ant 3	DSI 3	21350	2560	21.16	22.50	1.361	0.15	0.058	0.079
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	15mm	Ant 3	DSI 3	21350	2560	21.16	22.50	1.361	0.07	0.072	0.098
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 0	DSI 3	21350	2560	22.53	24.00	1.403	0.1	0.119	0.167
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 0	DSI 3	21350	2560	22.53	24.00	1.403	0.14	0.252	0.354
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	15mm	Ant 0	DSI 3	21350	2560	22.05	23.50	1.396	0.03	0.105	0.147
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	15mm	Ant 0	DSI 3	21350	2560	22.05	23.50	1.396	0.03	0.223	0.311
	LTE Band 7_Other PA	20M	QPSK	1	0	Front	15mm	Ant 2	DSI 3	20850	2510	22.04	23.50	1.400	-0.15	0.239	0.335
	LTE Band 7_Other PA	20M	QPSK	1	0	Back	15mm	Ant 2	DSI 3	20850	2510	22.04	23.50	1.400	-0.11	0.271	0.379
	LTE Band 7_Other PA	20M	QPSK	50	0	Front	15mm	Ant 2	DSI 3	20850	2510	21.49	23.00	1.416	-0.11	0.232	0.328
	LTE Band 7_Other PA	20M	QPSK	50	0	Back	15mm	Ant 2	DSI 3	20850	2510	21.49	23.00	1.416	-0.02	0.259	0.367

<5GNR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
850MHz																		
	N5	25M	BPSK	1	65	DFT-15	Front	15mm	Ant 1	DSI 3	167300	836.5	24.47	25.70	1.327	-0.12	0.118	0.157
	N5	25M	BPSK	1	65	DFT-15	Back	15mm	Ant 1	DSI 3	167300	836.5	24.47	25.70	1.327	-0.04	0.152	0.202
	N5	25M	BPSK	64	32	DFT-15	Front	15mm	Ant 1	DSI 3	167300	836.5	24.44	25.70	1.337	0.1	0.113	0.151
	N5	25M	BPSK	64	32	DFT-15	Back	15mm	Ant 1	DSI 3	167300	836.5	24.44	25.70	1.337	0.08	0.129	0.172
	N5	25M	BPSK	1	65	DFT-15	Front	15mm	Ant 0	DSI 3	167300	836.5	24.77	25.50	1.183	-0.1	0.183	0.216
	N5	25M	BPSK	1	65	DFT-15	Back	15mm	Ant 0	DSI 3	167300	836.5	24.77	25.50	1.183	0.16	0.189	0.224
	N5	25M	BPSK	64	32	DFT-15	Front	15mm	Ant 0	DSI 3	167300	836.5	24.69	25.50	1.205	-0.11	0.185	0.223
69	N5	25M	BPSK	64	32	DFT-15	Back	15mm	Ant 0	DSI 3	167300	836.5	24.69	25.50	1.205	0.15	0.200	**0.241**
1750MHz																		
	N66	40M	BPSK	1	1	DFT-15	Front	15mm	Ant 1	DSI 3	349000	1745	23.55	24.50	1.245	0.03	0.298	0.371
	N66	40M	BPSK	1	1	DFT-15	Back	15mm	Ant 1	DSI 3	349000	1745	23.55	24.50	1.245	-0.08	0.512	0.637
	N66	40M	BPSK	108	54	DFT-15	Front	15mm	Ant 1	DSI 3	349000	1745	23.40	24.50	1.288	0.1	0.323	0.416
70	N66	40M	BPSK	108	54	DFT-15	Back	15mm	Ant 1	DSI 3	349000	1745	23.40	24.50	1.288	-0.05	0.576	**0.742**
	N66	40M	BPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 3	349000	1745	21.75	23.50	1.496	0.05	0.067	0.100
	N66	40M	BPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 3	349000	1745	21.75	23.50	1.496	0.04	0.077	0.115
	N66	40M	BPSK	108	54	DFT-15	Front	15mm	Ant 3	DSI 3	349000	1745	21.62	23.50	1.542	0.07	0.068	0.105
	N66	40M	BPSK	108	54	DFT-15	Back	15mm	Ant 3	DSI 3	349000	1745	21.62	23.50	1.542	0.15	0.108	0.167
	N66	40M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 3	349000	1745	22.46	24.00	1.426	0.03	0.122	0.174
	N66	40M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 3	349000	1745	22.46	24.00	1.426	0.13	0.171	0.244
	N66	40M	BPSK	108	54	DFT-15	Front	15mm	Ant 0	DSI 3	349000	1745	22.45	24.00	1.429	0.06	0.124	0.177
	N66	40M	BPSK	108	54	DFT-15	Back	15mm	Ant 0	DSI 3	349000	1745	22.45	24.00	1.429	-0.01	0.192	0.274
	N66	40M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 3	349000	1745	22.09	23.50	1.384	-0.12	0.198	0.274
	N66	40M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 3	349000	1745	22.09	23.50	1.384	-0.15	0.224	0.310
	N66	40M	BPSK	108	54	DFT-15	Front	15mm	Ant 2	DSI 3	349000	1745	22.08	23.50	1.387	-0.08	0.214	0.297
	N66	40M	BPSK	108	54	DFT-15	Back	15mm	Ant 2	DSI 3	349000	1745	22.08	23.50	1.387	0.11	0.275	0.381
2600MHz																		
	N7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 1	DSI 3	507000	2535	24.61	25.50	1.227	0.01	0.200	0.245
	N7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 1	DSI 3	507000	2535	24.61	25.50	1.227	0.13	0.347	0.426
	N7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 1	DSI 3	507000	2535	24.51	25.50	1.256	-0.12	0.183	0.230
	N7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 1	DSI 3	507000	2535	24.51	25.50	1.256	0.05	0.311	0.391
	N7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 3	507000	2535	22.80	24.50	1.479	-0.12	0.252	0.373
	N7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 3	507000	2535	22.80	24.50	1.479	-0.01	0.181	0.268
	N7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 3	DSI 3	507000	2535	22.77	24.50	1.489	-0.09	0.294	0.438
	N7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 3	DSI 3	507000	2535	22.77	24.50	1.489	-0.06	0.212	0.316
	N7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 3	507000	2535	23.53	25.00	1.403	0.04	0.150	0.210
	N7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 3	507000	2535	23.53	25.00	1.403	-0.14	0.138	0.194
	N7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 0	DSI 3	507000	2535	23.45	25.00	1.429	0.12	0.157	0.224
	N7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 0	DSI 3	507000	2535	23.45	25.00	1.429	0.09	0.145	0.207
	N7	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 3	507000	2535	23.17	24.50	1.358	-0.1	0.335	0.455
	N7	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 3	507000	2535	23.17	24.50	1.358	0.03	0.374	0.508
	N7	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 2	DSI 3	507000	2535	23.06	24.50	1.393	0.1	0.365	0.509
71	N7	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 2	DSI 3	507000	2535	23.06	24.50	1.393	0.06	0.471	**0.656**
	N41	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 1	DSI 3	518598	2592.99	24.60	25.50	1.230	-0.09	0.191	0.235
	N41	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 1	DSI 3	518598	2592.99	24.60	25.50	1.230	0.14	0.422	0.519
	N41	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 1	DSI 3	518598	2592.99	24.52	25.50	1.253	0.13	0.211	0.264
72	N41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 1	DSI 3	518598	2592.99	24.52	25.50	1.253	-0.1	0.465	**0.583**
	N41	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 3	518598	2592.99	23.48	25.00	1.419	0.08	0.319	0.453
	N41	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 3	518598	2592.99	23.48	25.00	1.419	0.06	0.213	0.302
	N41	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 3	518598	2592.99	23.43	25.00	1.435	0.16	0.377	0.541
	N41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 3	518598	2592.99	23.43	25.00	1.435	0.13	0.269	0.386
	N41	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 0	DSI 3	518598	2592.99	24.12	25.50	1.374	0.1	0.201	0.276

	N41	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 0	DSI 3	518598	2592.99	24.12	25.50	1.374	0.02	0.142	0.195
	N41	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 0	DSI 3	518598	2592.99	24.10	25.50	1.380	-0.11	0.211	0.291
	N41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 0	DSI 3	518598	2592.99	24.10	25.50	1.380	0.1	0.143	0.197
	N41	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 3	518598	2592.99	23.26	24.50	1.330	-0.08	0.314	0.418
	N41	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 3	518598	2592.99	23.26	24.50	1.330	-0.09	0.410	0.545
	N41	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 2	DSI 3	518598	2592.99	23.15	24.50	1.365	-0.01	0.307	0.419
	N41	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 3	518598	2592.99	23.15	24.50	1.365	0.13	0.388	0.529
3500-3900MHz																		
	N77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	633334	3500.01	20.48	22.00	1.419	-0.09	0.128	0.182
	N77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	633334	3500.01	20.48	22.00	1.419	-0.01	0.216	0.307
	N77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	633334	3500.01	20.40	22.00	1.445	-0.15	0.123	0.178
	N77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	633334	3500.01	20.40	22.00	1.445	-0.04	0.201	0.291
	N77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	656000	3840	20.62	22.00	1.374	0.02	0.131	0.180
	N77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	656000	3840	20.62	22.00	1.374	-0.14	0.142	0.195
	N77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	656000	3840	20.50	22.00	1.413	0.16	0.126	0.178
	N77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	656000	3840	20.50	22.00	1.413	0.02	0.136	0.192
	N77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	633334	3500.01	23.41	25.00	1.442	-0.04	0.249	0.359
	N77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	633334	3500.01	23.41	25.00	1.442	0.02	0.369	0.532
	N77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	633334	3500.01	23.36	25.00	1.459	0.09	0.285	0.416
	N77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	633334	3500.01	23.36	25.00	1.459	0.03	0.407	0.594
	N77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	656000	3840	23.62	25.00	1.374	0.08	0.426	0.585
	N77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	656000	3840	23.62	25.00	1.374	-0.06	0.643	0.884
	N77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	656000	3840	23.56	25.00	1.393	0.07	0.399	0.556
	N77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	656000	3840	23.56	25.00	1.393	0.1	0.617	0.860
	N77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	633334	3500.01	17.13	18.00	1.222	0.01	0.111	0.136
	N77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	633334	3500.01	17.13	18.00	1.222	-0.07	0.114	0.139
	N77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	633334	3500.01	17.10	18.00	1.230	-0.11	0.119	0.146
	N77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	633334	3500.01	17.10	18.00	1.230	0.01	0.121	0.149
	N77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	656000	3840	17.18	18.00	1.208	0.04	0.110	0.133
	N77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	656000	3840	17.18	18.00	1.208	-0.03	0.168	0.203
	N77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	656000	3840	17.12	18.00	1.225	0.05	0.120	0.147
	N77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	656000	3840	17.12	18.00	1.225	-0.06	0.180	0.220
	N77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 3	633334	3500.01	20.50	22.00	1.413	0.13	0.078	0.110
	N77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 3	633334	3500.01	20.50	22.00	1.413	0.04	0.728	1.028
	N77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 3	633334	3500.01	20.48	22.00	1.419	-0.03	0.093	0.132
73	N77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 3	633334	3500.01	20.48	22.00	1.419	-0.11	0.770	**1.093**
	N77	100M	BPSK	270	0	DFT-30	Back	15mm	Ant 7	DSI 3	633334	3500.01	20.38	21.50	1.294	-0.06	0.695	0.899
	N77	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 3	656000	3840	20.54	22.00	1.400	0.03	0.041	0.057
	N77	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 3	656000	3840	20.54	22.00	1.400	-0.04	0.411	0.575
	N77	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 3	656000	3840	20.51	22.00	1.409	0.09	0.480	0.676
	N77	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 3	656000	3840	20.51	22.00	1.409	-0.15	0.449	0.633
	N78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	633334	3500.01	20.92	22.50	1.439	0.07	0.131	0.188
	N78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	633334	3500.01	20.92	22.50	1.439	-0.09	0.197	0.283
	N78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	633334	3500.01	20.85	22.50	1.462	-0.05	0.120	0.175
	N78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	633334	3500.01	20.85	22.50	1.462	-0.13	0.150	0.219
	N78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	650000	3750	21.06	22.50	1.393	0.12	0.122	0.170
	N78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	650000	3750	21.06	22.50	1.393	0.11	0.126	0.176
	N78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	650000	3750	21.03	22.50	1.403	0.04	0.096	0.135
	N78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	650000	3750	21.03	22.50	1.403	0.09	0.118	0.166
	N78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	633334	3500.01	23.51	25.00	1.409	-0.03	0.268	0.378
	N78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	633334	3500.01	23.51	25.00	1.409	0.13	0.375	0.528
	N78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	633334	3500.01	23.45	25.00	1.429	0.09	0.311	0.444
	N78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	633334	3500.01	23.45	25.00	1.429	0.01	0.444	0.634
	N78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	650000	3750	23.70	25.00	1.349	-0.01	0.447	0.603
	N78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	650000	3750	23.70	25.00	1.349	0.07	0.768	1.036
	N78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	650000	3750	23.68	25.00	1.355	-0.04	0.450	0.610

74	N78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	650000	3750	23.68	25.00	1.355	-0.09	0.803	**1.088**
	N78	100M	BPSK	270	0	DFT-30	Back	15mm	Ant 5	DSI 3	650000	3750	23.66	25.00	1.361	-0.03	0.761	1.036
	N78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	633334	3500.01	18.05	19.00	1.245	-0.08	0.092	0.114
	N78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	633334	3500.01	18.05	19.00	1.245	-0.14	0.095	0.118
	N78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	633334	3500.01	17.98	19.00	1.265	-0.06	0.095	0.120
	N78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	633334	3500.01	17.98	19.00	1.265	0.04	0.102	0.129
	N78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	650000	3750	18.03	19.00	1.250	0.05	0.113	0.141
	N78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	650000	3750	18.03	19.00	1.250	-0.07	0.162	0.203
	N78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	650000	3750	17.99	19.00	1.262	-0.15	0.110	0.139
	N78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	650000	3750	17.99	19.00	1.262	0.14	0.157	0.198
	N78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 3	633334	3500.01	19.03	20.50	1.403	-0.09	0.035	0.049
	N78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 3	633334	3500.01	19.03	20.50	1.403	0.16	0.378	0.530
	N78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 3	633334	3500.01	18.94	20.50	1.432	-0.16	0.038	0.054
	N78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 3	633334	3500.01	18.94	20.50	1.432	-0.12	0.481	0.689
	N78	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 3	650000	3750	19.18	20.50	1.355	0.09	0.017	0.023
	N78	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 3	650000	3750	19.18	20.50	1.355	0.08	0.330	0.447
	N78	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 3	650000	3750	19.14	20.50	1.368	-0.12	0.015	0.021
	N78	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 3	650000	3750	19.14	20.50	1.368	0.09	0.300	0.410

Inter-band CA & EN-DC NR Main PA

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
835MHz																		
	N5_Main PA	25M	BPSK	1	65	DFT-15	Front	15mm	Ant 1	DSI 3	167300	836.5	24.47	25.70	1.327	-0.12	0.118	0.157
	N5_Main PA	25M	BPSK	1	65	DFT-15	Back	15mm	Ant 1	DSI 3	167300	836.5	24.47	25.70	1.327	-0.04	0.152	0.202
	N5_Main PA	25M	BPSK	64	32	DFT-15	Front	15mm	Ant 1	DSI 3	167300	836.5	24.44	25.70	1.337	0.1	0.113	0.151
	N5_Main PA	25M	BPSK	64	32	DFT-15	Back	15mm	Ant 1	DSI 3	167300	836.5	24.44	25.70	1.337	0.08	0.129	0.172
	N5_Main PA	25M	BPSK	1	65	DFT-15	Front	15mm	Ant 0	DSI 3	167300	836.5	24.77	25.50	1.183	-0.1	0.183	0.216
	N5_Main PA	25M	BPSK	1	65	DFT-15	Back	15mm	Ant 0	DSI 3	167300	836.5	24.77	25.50	1.183	0.16	0.189	0.224
	N5_Main PA	25M	BPSK	64	32	DFT-15	Front	15mm	Ant 0	DSI 3	167300	836.5	24.69	25.50	1.205	-0.11	0.185	0.223
	N5_Main PA	25M	BPSK	64	32	DFT-15	Back	15mm	Ant 0	DSI 3	167300	836.5	24.69	25.50	1.205	0.15	0.200	0.241
1750MHz																		
	N66_Main PA	40M	BPSK	1	1	DFT-15	Front	15mm	Ant 1	DSI 3	349000	1745	22.07	23.00	1.239	-0.12	0.211	0.261
	N66_Main PA	40M	BPSK	1	1	DFT-15	Back	15mm	Ant 1	DSI 3	349000	1745	22.07	23.00	1.239	-0.15	0.362	0.448
	N66_Main PA	40M	BPSK	108	54	DFT-15	Front	15mm	Ant 1	DSI 3	349000	1745	22.04	23.00	1.247	-0.04	0.229	0.286
	N66_Main PA	40M	BPSK	108	54	DFT-15	Back	15mm	Ant 1	DSI 3	349000	1745	22.04	23.00	1.247	0.09	0.408	0.509
	N66_Main PA	40M	BPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 3	349000	1745	21.75	23.50	1.496	0.05	0.067	0.100
	N66_Main PA	40M	BPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 3	349000	1745	21.75	23.50	1.496	0.04	0.077	0.115
	N66_Main PA	40M	BPSK	108	54	DFT-15	Front	15mm	Ant 3	DSI 3	349000	1745	21.62	23.50	1.542	0.07	0.068	0.105
	N66_Main PA	40M	BPSK	108	54	DFT-15	Back	15mm	Ant 3	DSI 3	349000	1745	21.62	23.50	1.542	0.15	0.108	0.167
	N66_Main PA	40M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 3	349000	1745	22.46	24.00	1.426	0.03	0.122	0.174
	N66_Main PA	40M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 3	349000	1745	22.46	24.00	1.426	0.13	0.171	0.244
	N66_Main PA	40M	BPSK	108	54	DFT-15	Front	15mm	Ant 0	DSI 3	349000	1745	22.45	24.00	1.429	0.06	0.124	0.177
	N66_Main PA	40M	BPSK	108	54	DFT-15	Back	15mm	Ant 0	DSI 3	349000	1745	22.45	24.00	1.429	-0.01	0.192	0.274
	N66_Main PA	40M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 3	349000	1745	22.09	23.50	1.384	-0.12	0.198	0.274
	N66_Main PA	40M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 3	349000	1745	22.09	23.50	1.384	-0.15	0.224	0.310
	N66_Main PA	40M	BPSK	108	54	DFT-15	Front	15mm	Ant 2	DSI 3	349000	1745	22.08	23.50	1.387	-0.08	0.214	0.297
	N66_Main PA	40M	BPSK	108	54	DFT-15	Back	15mm	Ant 2	DSI 3	349000	1745	22.08	23.50	1.387	0.11	0.275	0.381
2600MHz																		
	N7_Main PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 1	DSI 3	507000	2535	24.61	25.50	1.227	0.01	0.200	0.245
	N7_Main PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 1	DSI 3	507000	2535	24.61	25.50	1.227	0.13	0.347	0.426
	N7_Main PA	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 1	DSI 3	507000	2535	24.51	25.50	1.256	-0.12	0.183	0.230
	N7_Main PA	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 1	DSI 3	507000	2535	24.51	25.50	1.256	0.05	0.311	0.391
	N7_Main PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 3	507000	2535	23.53	25.00	1.403	0.04	0.150	0.210
	N7_Main PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 3	507000	2535	23.53	25.00	1.403	-0.14	0.138	0.194
	N7_Main PA	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 0	DSI 3	507000	2535	23.45	25.00	1.429	0.12	0.157	0.224

	N7_Main PA	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 0	DSI 3	507000	2535	23.45	25.00	1.429	0.09	0.145	0.207
	N41_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 1	DSI 3	518598	2592.99	24.13	25.00	1.222	0.04	0.170	0.208
	N41_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 1	DSI 3	518598	2592.99	24.13	25.00	1.222	0.08	0.376	0.459
	N41_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 1	DSI 3	518598	2592.99	24.12	25.00	1.225	0.07	0.188	0.230
	N41_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 1	DSI 3	518598	2592.99	24.12	25.00	1.225	0.13	0.414	0.507
	N41_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 0	DSI 3	518598	2592.99	24.12	25.50	1.374	0.1	0.201	0.276
	N41_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 0	DSI 3	518598	2592.99	24.12	25.50	1.374	0.02	0.142	0.195
	N41_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 0	DSI 3	518598	2592.99	24.10	25.50	1.380	-0.11	0.211	0.291
	N41_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 0	DSI 3	518598	2592.99	24.10	25.50	1.380	0.1	0.143	0.197
3500-3900MHz																		
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	633334	3500.01	20.48	22.00	1.419	-0.09	0.128	0.182
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	633334	3500.01	20.48	22.00	1.419	-0.01	0.216	0.307
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	633334	3500.01	20.40	22.00	1.445	-0.15	0.123	0.178
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	633334	3500.01	20.40	22.00	1.445	-0.04	0.201	0.291
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	656000	3840	20.62	22.00	1.374	0.02	0.131	0.180
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	656000	3840	20.62	22.00	1.374	-0.14	0.142	0.195
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	656000	3840	20.50	22.00	1.413	0.16	0.132	0.186
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	656000	3840	20.50	22.00	1.413	0.02	0.136	0.192
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	633334	3500.01	21.44	23.00	1.432	0.13	0.157	0.225
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	633334	3500.01	21.44	23.00	1.432	0.03	0.233	0.334
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	633334	3500.01	21.41	23.00	1.442	0.02	0.180	0.260
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	633334	3500.01	21.41	23.00	1.442	-0.01	0.257	0.371
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	656000	3840	21.64	23.00	1.368	0.09	0.269	0.368
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	656000	3840	21.64	23.00	1.368	-0.01	0.393	0.538
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	656000	3840	21.60	23.00	1.380	-0.06	0.252	0.348
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	656000	3840	21.60	23.00	1.380	-0.15	0.389	0.537
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	633334	3500.01	17.13	18.00	1.222	0.01	0.111	0.136
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	633334	3500.01	17.13	18.00	1.222	-0.07	0.114	0.139
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	633334	3500.01	17.10	18.00	1.230	-0.11	0.119	0.146
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	633334	3500.01	17.10	18.00	1.230	0.01	0.121	0.149
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	656000	3840	17.18	18.00	1.208	0.04	0.110	0.133
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	656000	3840	17.18	18.00	1.208	-0.03	0.168	0.203
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	656000	3840	17.12	18.00	1.225	0.05	0.120	0.147
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	656000	3840	17.12	18.00	1.225	-0.06	0.180	0.220
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 3	633334	3500.01	17.53	19.00	1.403	0.12	0.039	0.055
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 3	633334	3500.01	17.53	19.00	1.403	-0.04	0.365	0.512
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 3	633334	3500.01	17.46	19.00	1.426	-0.05	0.047	0.067
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 3	633334	3500.01	17.46	19.00	1.426	0.15	0.380	0.542
	N77_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 3	656000	3840	17.55	19.00	1.396	-0.12	0.021	0.029
	N77_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 3	656000	3840	17.55	19.00	1.396	-0.1	0.206	0.288
	N77_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 3	656000	3840	17.53	19.00	1.403	-0.08	0.241	0.338
	N77_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 3	656000	3840	17.53	19.00	1.403	-0.09	0.225	0.316
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	633334	3500.01	18.44	20.00	1.432	0.11	0.074	0.106
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	633334	3500.01	18.44	20.00	1.432	-0.03	0.111	0.159
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	633334	3500.01	18.39	20.00	1.449	-0.07	0.067	0.097
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	633334	3500.01	18.39	20.00	1.449	0.03	0.084	0.122
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 4	DSI 3	650000	3750	18.68	20.00	1.355	0.05	0.069	0.094
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 4	DSI 3	650000	3750	18.68	20.00	1.355	-0.13	0.071	0.096
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 4	DSI 3	650000	3750	18.66	20.00	1.361	0.04	0.054	0.074
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 4	DSI 3	650000	3750	18.66	20.00	1.361	-0.05	0.066	0.090
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	633334	3500.01	20.52	22.00	1.406	0.13	0.134	0.188
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	633334	3500.01	20.52	22.00	1.406	0.13	0.188	0.264
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	633334	3500.01	20.48	22.00	1.419	-0.07	0.156	0.221
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	633334	3500.01	20.48	22.00	1.419	0.04	0.223	0.316
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 5	DSI 3	650000	3750	20.58	22.00	1.387	0.1	0.224	0.311
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 5	DSI 3	650000	3750	20.58	22.00	1.387	0.03	0.373	0.517

	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 5	DSI 3	650000	3750	20.54	22.00	1.400	-0.05	0.226	0.316
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 5	DSI 3	650000	3750	20.54	22.00	1.400	-0.08	0.377	0.528
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	633334	3500.01	18.05	19.00	1.245	-0.08	0.092	0.114
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	633334	3500.01	18.05	19.00	1.245	-0.14	0.095	0.118
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	633334	3500.01	17.98	19.00	1.265	-0.06	0.095	0.120
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	633334	3500.01	17.98	19.00	1.265	0.04	0.102	0.129
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 6	DSI 3	650000	3750	18.03	19.00	1.250	0.05	0.113	0.141
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 6	DSI 3	650000	3750	18.03	19.00	1.250	-0.07	0.162	0.203
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 6	DSI 3	650000	3750	17.99	19.00	1.262	-0.15	0.110	0.139
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 6	DSI 3	650000	3750	17.99	19.00	1.262	0.14	0.157	0.198
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 3	633334	3500.01	18.02	19.50	1.406	0.07	0.028	0.039
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 3	633334	3500.01	18.02	19.50	1.406	0.05	0.300	0.422
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 3	633334	3500.01	17.95	19.50	1.429	0.06	0.030	0.043
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 3	633334	3500.01	17.95	19.50	1.429	0.05	0.370	0.529
	N78_Main PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 7	DSI 3	650000	3750	18.20	19.50	1.349	-0.12	0.014	0.019
	N78_Main PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 7	DSI 3	650000	3750	18.20	19.50	1.349	0.04	0.262	0.353
	N78_Main PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 7	DSI 3	650000	3750	18.14	19.50	1.368	0.09	0.012	0.016
	N78_Main PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 7	DSI 3	650000	3750	18.14	19.50	1.368	0.06	0.238	0.326

Inter-band CA & EN-DC NR Other PA

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHz																		
	N66_Other PA	40M	BPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 3	349000	1745	22.57	24.00	1.390	-0.16	0.015	0.021
	N66_Other PA	40M	BPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 3	349000	1745	22.57	24.00	1.390	-0.04	0.018	0.024
	N66_Other PA	40M	BPSK	108	54	DFT-15	Front	15mm	Ant 3	DSI 3	349000	1745	22.55	24.00	1.396	-0.04	0.013	0.018
	N66_Other PA	40M	BPSK	108	54	DFT-15	Back	15mm	Ant 3	DSI 3	349000	1745	22.55	24.00	1.396	-0.07	0.016	0.022
	N66_Other PA	40M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 3	349000	1745	23.62	24.50	1.225	-0.1	0.020	0.024
	N66_Other PA	40M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 3	349000	1745	23.62	24.50	1.225	0.04	0.033	0.040
	N66_Other PA	40M	BPSK	108	54	DFT-15	Front	15mm	Ant 2	DSI 3	349000	1745	23.61	24.50	1.227	-0.04	0.015	0.018
	N66_Other PA	40M	BPSK	108	54	DFT-15	Back	15mm	Ant 2	DSI 3	349000	1745	23.61	24.50	1.227	0.15	0.030	0.037
2600MHz																		
	N7_Other PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 1	DSI 3	507000	2535	22.54	24.00	1.400	-0.05	0.146	0.204
	N7_Other PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 1	DSI 3	507000	2535	22.54	24.00	1.400	0.1	0.365	0.511
	N7_Other PA	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 1	DSI 3	507000	2535	22.51	24.00	1.409	-0.15	0.145	0.204
	N7_Other PA	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 1	DSI 3	507000	2535	22.51	24.00	1.409	0.06	0.331	0.466
	N7_Other PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 3	DSI 3	507000	2535	24.76	25.70	1.242	-0.09	0.121	0.150
	N7_Other PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 3	DSI 3	507000	2535	24.76	25.70	1.242	-0.15	0.131	0.163
	N7_Other PA	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 3	DSI 3	507000	2535	24.75	25.70	1.245	0.04	0.092	0.114
	N7_Other PA	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 3	DSI 3	507000	2535	24.75	25.70	1.245	0.07	0.120	0.149
	N7_Other PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 0	DSI 3	507000	2535	22.69	24.00	1.352	-0.11	0.123	0.166
	N7_Other PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 0	DSI 3	507000	2535	22.69	24.00	1.352	-0.06	0.205	0.277
	N7_Other PA	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 0	DSI 3	507000	2535	22.67	24.00	1.358	0.05	0.075	0.102
	N7_Other PA	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 0	DSI 3	507000	2535	22.67	24.00	1.358	-0.14	0.111	0.151
	N7_Other PA	50M	BPSK	1	1	DFT-15	Front	15mm	Ant 2	DSI 3	507000	2535	23.15	24.00	1.216	-0.05	0.313	0.381
	N7_Other PA	50M	BPSK	1	1	DFT-15	Back	15mm	Ant 2	DSI 3	507000	2535	23.15	24.00	1.216	0.01	0.422	0.513
	N7_Other PA	50M	BPSK	135	68	DFT-15	Front	15mm	Ant 2	DSI 3	507000	2535	23.12	24.00	1.225	0.1	0.308	0.377
	N7_Other PA	50M	BPSK	135	68	DFT-15	Back	15mm	Ant 2	DSI 3	507000	2535	23.12	24.00	1.225	0.02	0.412	0.505
	N38_Other PA	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 1	DSI 3	519000	2595	23.45	25.00	1.429	-0.1	0.176	0.251
75	N38_Other PA	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 1	DSI 3	519000	2595	23.45	25.00	1.429	0.06	0.382	**0.546**
	N38_Other PA	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 1	DSI 3	519000	2595	23.22	25.00	1.507	-0.15	0.165	0.249
	N38_Other PA	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 1	DSI 3	519000	2595	23.22	25.00	1.507	0.09	0.354	0.533
	N38_Other PA	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 3	519000	2595	24.61	25.70	1.285	0.02	0.100	0.129
	N38_Other PA	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 3	519000	2595	24.61	25.70	1.285	-0.09	0.106	0.136
	N38_Other PA	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 3	DSI 3	519000	2595	24.50	25.70	1.318	0.04	0.096	0.127
	N38_Other PA	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 3	DSI 3	519000	2595	24.50	25.70	1.318	0.16	0.097	0.128

	N38_Other PA	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 0	DSI 3	519000	2595	22.98	24.50	1.419	-0.02	0.108	0.153
	N38_Other PA	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 0	DSI 3	519000	2595	22.98	24.50	1.419	0.06	0.122	0.173
	N38_Other PA	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 0	DSI 3	519000	2595	22.79	24.50	1.483	-0.01	0.101	0.150
	N38_Other PA	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 0	DSI 3	519000	2595	22.79	24.50	1.483	-0.03	0.111	0.165
	N38_Other PA	40M	BPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 3	519000	2595	22.87	24.00	1.297	-0.04	0.318	0.413
	N38_Other PA	40M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 3	519000	2595	22.87	24.00	1.297	0.05	0.410	0.532
	N38_Other PA	40M	BPSK	50	28	DFT-30	Front	15mm	Ant 2	DSI 3	519000	2595	22.75	24.00	1.334	-0.16	0.305	0.407
	N38_Other PA	40M	BPSK	50	28	DFT-30	Back	15mm	Ant 2	DSI 3	519000	2595	22.75	24.00	1.334	-0.08	0.384	0.512
	N41_Other PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 1	DSI 3	518598	2592.99	23.73	25.00	1.340	0.12	0.162	0.217
	N41_Other PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 1	DSI 3	518598	2592.99	23.73	25.00	1.340	0.05	0.296	0.397
	N41_Other PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 1	DSI 3	518598	2592.99	23.71	25.00	1.346	0.15	0.166	0.223
	N41_Other PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 1	DSI 3	518598	2592.99	23.71	25.00	1.346	0.03	0.301	0.405
	N41_Other PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 3	DSI 3	518598	2592.99	24.75	25.70	1.245	-0.02	0.100	0.124
	N41_Other PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 3	DSI 3	518598	2592.99	24.75	25.70	1.245	0.08	0.115	0.143
	N41_Other PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 3	DSI 3	518598	2592.99	24.74	25.70	1.247	-0.03	0.098	0.122
	N41_Other PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 3	DSI 3	518598	2592.99	24.74	25.70	1.247	-0.1	0.106	0.132
	N41_Other PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 0	DSI 3	518598	2592.99	23.23	24.50	1.340	-0.01	0.133	0.178
	N41_Other PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 0	DSI 3	518598	2592.99	23.23	24.50	1.340	0.01	0.175	0.234
	N41_Other PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 0	DSI 3	518598	2592.99	23.21	24.50	1.346	-0.14	0.121	0.163
	N41_Other PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 0	DSI 3	518598	2592.99	23.21	24.50	1.346	0.03	0.157	0.211
	N41_Other PA	100M	BPSK	1	1	DFT-30	Front	15mm	Ant 2	DSI 3	518598	2592.99	23.19	24.20	1.262	0.1	0.303	0.382
	N41_Other PA	100M	BPSK	1	1	DFT-30	Back	15mm	Ant 2	DSI 3	518598	2592.99	23.19	24.20	1.262	0.03	0.393	0.496
	N41_Other PA	100M	BPSK	135	69	DFT-30	Front	15mm	Ant 2	DSI 3	518598	2592.99	23.17	24.20	1.268	-0.05	0.297	0.376
	N41_Other PA	100M	BPSK	135	69	DFT-30	Back	15mm	Ant 2	DSI 3	518598	2592.99	23.17	24.20	1.268	0.15	0.364	0.461

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
2450MHz																
	Bluetooth	DH5 1Mbps	Front	15mm	Ant 16	full	39	2441	15.10	16.50	1.380	76.8	1.302	0.11	0.029	0.052
76	Bluetooth	DH5 1Mbps	Back	15mm	Ant 16	full	39	2441	15.10	16.50	1.380	76.8	1.302	0.02	0.034	**0.061**
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 16+18	full	1	2412	22.71	23.50	1.199	99.53	1.005	-0.16	0.214	0.258
77	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 16+18	full	1	2412	22.71	23.50	1.199	99.53	1.005	0.02	0.221	**0.266**
5250-5750MHz																
	WLAN 5.3GHz	802.11a 6Mbps	Front	15mm	Ant 17+18	Full	56	5280	20.76	21.50	1.185	97.22	1.029	0.08	0.180	0.219
78	WLAN 5.3GHz	802.11a 6Mbps	Back	15mm	Ant 17+18	Full	56	5280	20.76	21.50	1.185	97.22	1.029	-0.19	0.350	**0.427**
	WLAN 5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 17+18	Simultaneous	54	5270	18.91	19.50	1.146	94.2	1.062	0.03	0.120	0.146
	WLAN 5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 17+18	Simultaneous	54	5270	18.91	19.50	1.146	94.2	1.062	-0.01	0.191	0.232
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 17+18	Full	138	5690	16.61	17.50	1.227	86.49	1.156	-0.02	0.102	0.145
79	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 17+18	Full	138	5690	16.61	17.50	1.227	86.49	1.156	0.03	0.142	**0.201**
	WLAN 5.8GHz	802.11a 6Mbps	Front	15mm	Ant 17+18	Full	149	5745	20.91	21.50	1.145	97.22	1.029	0.06	0.283	0.333
80	WLAN 5.8GHz	802.11a 6Mbps	Back	15mm	Ant 17+18	Full	149	5745	20.91	21.50	1.145	97.22	1.029	-0.16	0.408	**0.481**
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 17+18	Simultaneous	155	5775	14.97	16.00	1.268	86.49	1.156	0.03	0.089	0.130
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 17+18	Simultaneous	155	5775	14.97	16.00	1.268	86.49	1.156	-0.02	0.107	0.157

15.4 Product Specific SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 1	1413	1732.6	20.44	21.50	1.276	-	-	0.07	1.270	1.621
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 1	1413	1732.6	20.44	21.50	1.276	-	-	0.07	1.580	2.017
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 1	1312	1712.4	20.30	21.50	1.318	-	-	-0.16	1.620	2.136
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 1	1513	1752.6	20.25	21.50	1.334	-	-	0.03	1.610	2.147
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 1	1413	1732.6	20.44	21.50	1.276	-	-	0.03	1.610	2.055
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 1	1312	1712.4	20.30	21.50	1.318	-	-	-0.13	1.510	1.991
81	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 1	1513	1752.6	20.25	21.50	1.334	-	-	0.08	1.800	**2.400**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3	1413	1732.6	23.40	24.50	1.288	-	-	0.06	0.923	1.189
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	1513	1752.6	23.25	24.50	1.334	-	-	0.01	0.900	1.200
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	1513	1752.6	23.25	24.50	1.334	-	-	0.05	1.460	1.947
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 1	1413	1732.6	22.31	23.00	1.172	-	-	-0.09	1.650	1.934
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	15mm	Ant 2	DSI 3	1413	1732.6	24.30	25.00	1.175	-	-	0.09	0.352	0.414
82	LTE Band 4	20M	QPSK	1	0	-	Back	0mm	Ant 1	DSI 1	20175	1732.5	19.63	21.00	1.371	-	-	0.04	1.370	**1.878**
	LTE Band 4	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	20175	1732.5	19.63	21.00	1.371	-	-	0.04	1.270	1.741
	LTE Band 4	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3	20175	1732.5	23.10	24.50	1.380	-	-	0.05	1.150	1.587
	LTE Band 4	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	20175	1732.5	23.10	24.50	1.380	-	-	0.05	1.210	1.670
	LTE Band 4	20M	QPSK	50	0	-	Back	0mm	Ant 1	DSI 1	20175	1732.5	19.61	21.00	1.377	-	-	-0.09	1.350	1.859
	LTE Band 4	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	20175	1732.5	19.61	21.00	1.377	-	-	0.09	1.250	1.722
	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 1	20175	1732.5	22.65	23.50	1.216	-	-	0.09	1.450	1.763
	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 2	DSI 3	20175	1732.5	24.09	25.00	1.233	-	-	0.01	0.322	0.397
	LTE Band 4	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 1	20175	1732.5	22.61	23.50	1.227	-	-	0.04	1.410	1.731
83	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 1	132322	1745	22.78	23.50	1.180	-	-	-0.13	1.440	**1.700**
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 2	DSI 3	132322	1745	23.25	24.00	1.189	-	-	0.06	0.248	0.295
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 1	132322	1745	22.26	23.00	1.186	-	-	-0.04	1.380	1.636
1900MHZ																				
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 1	9400	1880	19.08	20.50	1.387	-	-	-0.06	1.563	2.167
84	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 1	9262	1852.4	19.05	20.50	1.396	-	-	-0.03	1.700	**2.374**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 1	9538	1907.6	18.95	20.50	1.429	-	-	-0.04	1.513	2.162
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 1	9400	1880	19.08	20.50	1.387	-	-	0.13	1.023	1.419
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 1	9400	1880	19.08	20.50	1.387	-	-	0.1	1.110	1.539
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	9262	1852.4	22.03	23.50	1.403	-	-	0.03	1.500	2.104
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3	9400	1880	22.07	23.50	1.390	-	-	0.05	0.944	1.312
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 3	9400	1880	22.07	23.50	1.390	-	-	0.08	1.010	1.404
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 1	9400	1880	21.22	22.00	1.197	-	-	0.05	1.730	2.070
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 1	9262	1852.4	21.19	22.00	1.205	-	-	0.09	1.590	1.916
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 1	9538	1907.6	21.16	22.00	1.213	-	-	0.01	1.640	1.990
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	15mm	Ant 2	DSI 3	9400	1880	24.19	25.00	1.205	-	-	0.09	0.386	0.465
	LTE Band 2	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 1	18900	1880	21.75	23.00	1.334	-	-	0.13	1.810	2.414
	LTE Band 2	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 1	18700	1860	21.63	23.00	1.371	-	-	0.08	1.710	2.344
	LTE Band 2	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 1	19100	1900	21.62	23.00	1.374	-	-	-0.04	1.680	2.308
	LTE Band 2	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	DSI 3	18900	1880	22.73	24.00	1.340	-	-	0.09	0.919	1.231
85	LTE Band 2	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 1	18900	1880	21.66	23.00	1.361	-	-	-0.06	1.890	**2.573**
	LTE Band 2	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 1	18700	1860	21.63	23.00	1.371	-	-	-0.13	1.780	2.440
	LTE Band 2	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 1	19100	1900	21.55	23.00	1.396	-	-	0.06	1.660	2.318
	LTE Band 2	20M	QPSK	50	0	-	Left Side	5mm	Ant 3	DSI 3	18900	1880	21.65	23.00	1.365	-	-	0.05	0.872	1.190
	LTE Band 2	20M	QPSK	100	0	-	Left Side	0mm	Ant 3	DSI 1	18900	1880	21.58	23.00	1.387	-	-	0.06	1.740	2.413
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 1	18900	1880	21.59	23.00	1.384	-	-	-0.16	1.730	2.394
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 1	18700	1860	21.51	23.00	1.409	-	-	0.1	1.530	2.156
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 1	19100	1900	21.44	23.00	1.432	-	-	-0.1	1.610	2.306
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 2	DSI 3	18900	1880	22.54	24.00	1.400	-	-	0.09	0.286	0.400

	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 1	18900	1880	21.57	23.00	1.390	-	-	0.01	1.850	2.571
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 1	18700	1860	21.48	23.00	1.419	-	-	-0.02	1.590	2.256
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 1	19100	1900	21.39	23.00	1.449	-	-	-0.02	1.700	2.463
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	15mm	Ant 2	DSI 3	18900	1880	21.60	23.00	1.380	-	-	0.01	0.244	0.337
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 2	DSI 1	18900	1880	21.55	23.00	1.396	-	-	0.13	1.730	2.416
2600MHZ																				
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 1	21100	2535	19.14	20.50	1.368	-	-	0.02	0.856	1.171
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 1	21100	2535	19.14	20.50	1.368	-	-	0	0.821	1.123
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 1	21100	2535	19.14	20.50	1.368	-	-	-0.07	1.310	1.792
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 3	DSI 3	21100	2535	23.60	25.00	1.380	-	-	0.09	0.667	0.921
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 3	DSI 3	21100	2535	23.60	25.00	1.380	-	-	0.05	0.608	0.839
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	DSI 3	21100	2535	23.60	25.00	1.380	-	-	0	0.725	1.001
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 1	21100	2535	19.12	20.50	1.374	-	-	0.12	0.954	1.311
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 3	DSI 1	21100	2535	19.12	20.50	1.374	-	-	0.05	0.876	1.204
86	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 1	21100	2535	19.12	20.50	1.374	-	-	0.09	1.430	**1.965**
	LTE Band 7C	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 1	21100+ 20902	2535+ 2515.2	18.86	20.50	1.459	-	-	0.06	1.270	1.853
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 3	DSI 3	21100	2535	22.75	24.00	1.334	-	-	0.09	0.599	0.799
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 3	DSI 3	21100	2535	22.75	24.00	1.334	-	-	0.01	0.526	0.701
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 3	DSI 3	21100	2535	22.75	24.00	1.334	-	-	0.05	0.616	0.821
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	18.65	19.50	1.216	-	-	-0.03	1.230	1.496
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 1	21100	2535	18.65	19.50	1.216	-	-	0.13	0.710	0.863
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 3	21100	2535	23.63	24.50	1.222	-	-	-0.15	0.391	0.478
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 2	DSI 3	21100	2535	23.63	24.50	1.222	-	-	0.09	0.296	0.362
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	18.56	19.50	1.242	-	-	-0.12	1.300	1.614
	LTE Band 7C	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	21100+ 20902	2535+ 2515.2	18.62	19.50	1.225	-	-	0.07	1.220	1.494
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 1	21100	2535	18.56	19.50	1.242	-	-	-0.02	0.736	0.914
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 3	21100	2535	22.53	23.50	1.250	-	-	0.07	0.373	0.466
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	15mm	Ant 2	DSI 3	21100	2535	22.53	23.50	1.250	-	-	0.01	0.235	0.294
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	40620	2593	21.16	22.50	1.361	62.9	1.006	-0.03	1.240	1.698
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	39750	2506	21.10	22.50	1.380	62.9	1.006	0.06	1.160	1.611
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	40185	2549.5	21.13	22.50	1.371	62.9	1.006	0.08	1.200	1.655
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	41055	2636.5	21.01	22.50	1.409	62.9	1.006	0.01	1.130	1.602
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	41490	2680	21.01	22.50	1.409	62.9	1.006	-0.06	1.170	1.659
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	40620	2593	23.63	25.00	1.371	62.9	1.006	0.09	0.685	0.945
87	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	40620	2593	21.15	22.50	1.365	62.9	1.006	-0.14	1.290	**1.771**
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	39750	2506	20.82	22.50	1.472	62.9	1.006	0.06	1.180	1.748
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	40185	2549.5	21.03	22.50	1.403	62.9	1.006	0.01	1.230	1.736
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	41055	2636.5	20.94	22.50	1.432	62.9	1.006	0.09	1.180	1.700
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	41490	2680	21.06	22.50	1.393	62.9	1.006	-0.05	1.220	1.710
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	40620	2593	22.66	24.00	1.361	62.9	1.006	0.05	0.657	0.900
	LTE Band 41	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	DSI 1	40620	2593	21.11	22.50	1.377	62.9	1.006	0.03	1.130	1.566

DL CA / Inter-band CA & EN-DC LTE Main PA

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHz																				
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 1	20175	1732.5	21.68	22.50	1.208	-	-	-0.06	1.152	1.391
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 2	DSI 3	20175	1732.5	23.66	24.50	1.213	-	-	0.01	0.322	0.391
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 1	20175	1732.5	21.71	22.50	1.199	-	-	-0.04	1.120	1.343
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 1	132322	1745	21.76	22.50	1.186	-	-	0.14	1.140	1.352
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 2	DSI 3	132322	1745	23.25	24.00	1.189	-	-	0.06	0.248	0.295
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 1	132322	1745	21.69	22.50	1.205	-	-	-0.15	1.090	1.313
1900MHZ																				
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 1	18900	1880	18.75	20.00	1.334	-	-	-0.05	0.907	1.210
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	DSI 3	18900	1880	22.73	24.00	1.340	-	-	0.09	0.919	1.231
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 1	18900	1880	18.72	20.00	1.343	-	-	0.12	0.947	1.272
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Left Side	5mm	Ant 3	DSI 3	18900	1880	21.65	23.00	1.365	-	-	0.05	0.872	1.190
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 1	18900	1880	19.12	20.50	1.374	-	-	0.12	0.867	1.191
	LTE Band 2_Main PA	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 2	DSI 3	18900	1880	22.54	24.00	1.400	-	-	0.09	0.286	0.400
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 1	18900	1880	19.06	20.50	1.393	-	-	0.06	0.927	1.291
	LTE Band 2_Main PA	20M	QPSK	50	0	-	Bottom Side	15mm	Ant 2	DSI 3	18900	1880	21.60	23.00	1.380	-	-	0.01	0.244	0.337
2600MHZ																				
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Front	0mm	Ant 3	DSI 1	21100	2535	17.65	19.00	1.365	-	-	-0.07	0.606	0.827
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Back	0mm	Ant 3	DSI 1	21100	2535	17.65	19.00	1.365	-	-	0.12	0.581	0.793
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI 1	21100	2535	17.65	19.00	1.365	-	-	0.08	0.927	1.265
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Front	5mm	Ant 3	DSI 3	21100	2535	23.60	25.00	1.380	-	-	0.09	0.667	0.921
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Back	5mm	Ant 3	DSI 3	21100	2535	23.60	25.00	1.380	-	-	0.05	0.608	0.839
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	DSI 3	21100	2535	23.60	25.00	1.380	-	-	0	0.725	1.001
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Front	0mm	Ant 3	DSI 1	21100	2535	17.63	19.00	1.371	-	-	-0.05	0.675	0.925
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Back	0mm	Ant 3	DSI 1	21100	2535	17.63	19.00	1.371	-	-	-0.04	0.620	0.850
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSI 1	21100	2535	17.63	19.00	1.371	-	-	0.14	1.010	1.385
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Front	5mm	Ant 3	DSI 3	21100	2535	22.75	24.00	1.334	-	-	0.09	0.599	0.799
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Back	5mm	Ant 3	DSI 3	21100	2535	22.75	24.00	1.334	-	-	0.01	0.526	0.701
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Side	5mm	Ant 3	DSI 3	21100	2535	22.75	24.00	1.334	-	-	0.05	0.616	0.821
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	17.64	18.50	1.219	-	-	0.16	0.977	1.191
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	DSI 1	21100	2535	17.64	18.50	1.219	-	-	0.12	0.564	0.688
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 3	21100	2535	21.60	22.50	1.230	-	-	-0.15	0.391	0.481
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Bottom Side	15mm	Ant 2	DSI 3	21100	2535	21.60	22.50	1.230	-	-	0.09	0.296	0.364
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Back	0mm	Ant 2	DSI 1	21100	2535	17.61	18.50	1.227	-	-	0.04	1.030	1.264
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	DSI 1	21100	2535	17.61	18.50	1.227	-	-	-0.06	0.585	0.718
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 3	21100	2535	21.58	22.50	1.236	-	-	0.07	0.241	0.298
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Bottom Side	15mm	Ant 2	DSI 3	21100	2535	21.58	22.50	1.236	-	-	0.01	0.184	0.227
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	DSI 1	40620	2593	20.20	21.50	1.349	62.9	1.006	-0.06	0.985	1.337
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI 3	40620	2593	23.63	25.00	1.371	62.9	1.006	0.09	0.685	0.945
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	DSI 1	40620	2593	20.15	21.50	1.365	62.9	1.006	0.15	1.020	1.400
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI 3	40620	2593	22.66	24.00	1.361	62.9	1.006	0.05	0.657	0.900

DL CA / Inter-band CA & EN-DC LTE Other PA

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHZ																	
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 1	20175	1732.5	20.45	21.50	1.274	0.06	0.995	1.267
	LTE Band 4_Other PA	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 1	20175	1732.5	20.45	21.50	1.274	0.01	0.842	1.072
	LTE Band 4_Other PA	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	20175	1732.5	23.91	25.00	1.285	0.06	0.852	1.095
	LTE Band 4_Other PA	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 3	20175	1732.5	23.91	25.00	1.285	0.01	0.783	1.006
	LTE Band 4_Other PA	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 1	20175	1732.5	20.22	21.50	1.343	-0.04	1.030	1.383
	LTE Band 4_Other PA	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSI 1	20175	1732.5	20.22	21.50	1.343	0.08	0.889	1.194
	LTE Band 4_Other PA	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3	20175	1732.5	22.75	24.00	1.334	0.02	0.935	1.247
	LTE Band 4_Other PA	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI 3	20175	1732.5	22.75	24.00	1.334	0.09	0.814	1.085
	LTE Band 66_Other PA	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 1	132572	1770	20.57	21.50	1.239	0.05	1.100	1.363
	LTE Band 66_Other PA	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 1	132572	1770	20.57	21.50	1.239	0.09	0.843	1.044
	LTE Band 66_Other PA	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	132572	1770	23.03	24.00	1.250	-0.08	0.876	1.095
	LTE Band 66_Other PA	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 3	132572	1770	23.03	24.00	1.250	-0.11	0.746	0.933
	LTE Band 66_Other PA	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 1	132572	1770	20.48	21.50	1.265	0.05	1.050	1.328
	LTE Band 66_Other PA	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSI 1	132572	1770	20.48	21.50	1.265	0.05	0.821	1.038
	LTE Band 66_Other PA	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3	132572	1770	21.91	23.00	1.285	0.08	0.921	1.184
	LTE Band 66_Other PA	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI 3	132572	1770	21.91	23.00	1.285	0.16	0.786	1.010

<5GNR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHZ																		
	N66	40M	BPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 1	349000	1745	21.57	22.50	1.239	-0.1	1.910	2.366
	N66	40M	BPSK	1	1	DFT-15	Top Side	0mm	Ant 1	DSI 1	349000	1745	21.57	22.50	1.239	-0.1	1.730	2.143
	N66	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 3	349000	1745	23.55	24.50	1.245	0.08	1.040	1.294
	N66	40M	BPSK	1	1	DFT-15	Top Side	5mm	Ant 1	DSI 3	349000	1745	23.55	24.50	1.245	0.01	1.380	1.717
88	N66	40M	BPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI 1	349000	1745	21.49	22.50	1.262	0.03	1.940	**2.448**
	N66	40M	BPSK	108	54	DFT-15	Top Side	0mm	Ant 1	DSI 1	349000	1745	21.49	22.50	1.262	-0.07	1.770	2.233
	N66	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 1	DSI 3	349000	1745	23.40	24.50	1.288	0.09	1.170	1.507
	N66	40M	BPSK	108	54	DFT-15	Top Side	5mm	Ant 1	DSI 3	349000	1745	23.40	24.50	1.288	0.01	1.360	1.752
	N66	40M	BPSK	216	0	DFT-15	Back	0mm	Ant 1	DSI 1	349000	1745	21.44	22.50	1.276	0.01	1.840	2.349
	N66	40M	BPSK	216	0	DFT-15	Top Side	0mm	Ant 1	DSI 1	349000	1745	21.44	22.50	1.276	0.09	1.710	2.183
2600MHZ																		
	N7	50M	BPSK	1	1	DFT-15	Bottom Side	0mm	Ant 2	DSI 1	507000	2535	18.20	19.50	1.349	-0.1	0.636	0.858
	N7	50M	BPSK	1	1	DFT-15	Bottom Side	15mm	Ant 2	DSI 3	507000	2535	23.17	24.50	1.358	0.09	0.253	0.344
	N7	50M	BPSK	135	68	DFT-15	Bottom Side	0mm	Ant 2	DSI 1	507000	2535	18.15	19.50	1.365	-0.16	0.611	0.834
	N7	50M	BPSK	135	68	DFT-15	Bottom Side	15mm	Ant 2	DSI 3	507000	2535	23.06	24.50	1.393	0.08	0.241	0.336
	N38	40M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 1	DSI 1	519000	2595	20.69	21.50	1.205	0.06	1.260	1.518
	N38	40M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 1	DSI 3	519000	2595	24.65	25.50	1.216	0.01	1.190	1.447
	N38	40M	BPSK	50	28	DFT-30	Top Side	0mm	Ant 1	DSI 1	519000	2595	20.63	21.50	1.222	-0.15	1.110	1.356
	N38	40M	BPSK	50	28	DFT-30	Top Side	5mm	Ant 1	DSI 3	519000	2595	24.53	25.50	1.250	0.08	1.070	1.338
	N38	40M	BPSK	1	1	DFT-30	Bottom Side	0mm	Ant 2	DSI 1	519000	2595	18.72	20.00	1.343	0.16	0.530	0.712
	N38	40M	BPSK	1	1	DFT-30	Bottom Side	15mm	Ant 2	DSI 3	519000	2595	23.19	24.50	1.352	0.09	0.231	0.312
	N38	40M	BPSK	50	28	DFT-30	Bottom Side	0mm	Ant 2	DSI 1	519000	2595	18.70	20.00	1.349	0.15	0.484	0.653
	N38	40M	BPSK	50	28	DFT-30	Bottom Side	15mm	Ant 2	DSI 3	519000	2595	23.09	24.50	1.384	0.07	0.223	0.309
	N41	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 1	DSI 1	518598	2592.99	20.11	21.00	1.227	0.07	1.210	1.485
	N41	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 1	DSI 3	518598	2592.99	24.60	25.50	1.230	-0.08	1.020	1.255
	N41	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 1	DSI 1	518598	2592.99	20.03	21.00	1.250	-0.15	1.280	1.600
	N41	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 1	DSI 3	518598	2592.99	24.52	25.50	1.253	0.01	1.110	1.391
	N41	100M	BPSK	270	0	DFT-30	Top Side	0mm	Ant 1	DSI 1	518598	2592.99	20.01	21.00	1.256	0.07	1.240	1.557
3500-4000MHZ																		
	N77	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 5	DSI 1	633334	3500.01	16.43	18.00	1.435	-0.05	0.340	0.488