

FCC SAR Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2603-1, XT2603-2
FCC ID : IHDT56AW1
STANDARD : FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Kunshan), 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. (Kunshan), the test report shall not be reproduced except in full.



Approved by: Si Zhang



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA591906	Rev. 01	Initial issue of report.	Dec. 05, 2025

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2603-1, XT2603-2**, are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	1.27	1.18	1.18	1.59
		GSM1900	1.27	1.29	1.29	
	WCDMA	WCDMA V	1.17	1.25	1.25	
		WCDMA II	1.30	1.28	1.28	
		WCDMA IV	1.29	1.28	1.28	
	LTE	LTE Band 7	1.28	1.30	1.30	
		LTE Band 12/17	0.95	1.23	0.99	
		LTE Band 13	0.21	1.13	1.13	
		LTE Band 25/2	1.28	1.29	1.29	
		LTE Band 26/5	1.28	1.30	1.30	
		LTE Band 41/38	1.29	1.29	1.29	
		LTE Band 48/43	1.30	1.30	1.29	
		LTE Band 66/4	1.28	1.29	1.29	
		LTE Band 71	0.63	0.79	0.76	
		LTE Band 42	1.30	1.30	1.28	
	5G NR	FR1 n7	1.28	1.29	1.29	
		FR1 n25/n2	1.28	1.28	1.28	
		FR1 n26/n5/n89	1.06	1.19	1.19	
		FR1 n41/n38	1.28	1.30	1.30	
		FR1 n66	1.28	1.30	1.29	
		FR1 n70	1.28	1.29	1.29	
		FR1 n71	0.67	0.71	0.71	
		FR1 n77/n78	1.29	1.29	1.29	
DTS	WLAN	2.4GHz WLAN	1.44	1.44	1.26	1.59
NII		5GHz WLAN	1.17	1.18	1.16	1.59
6XD		WLAN 6GHz	1.08		0.64	1.59
DSS	Bluetooth	2.4GHz Bluetooth	1.29	1.26	0.96	1.59
Highest Total Exposure Ratio			Ratio ≤ 1.0			
			0.994			

Highest 10g SAR Summary				
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)
Licensed	GSM	GSM1900	3.15	3.98
	WCDMA	WCDMA V	1.75	
		WCDMA II	3.19	
		WCDMA IV	3.19	
	LTE	LTE Band 7	3.16	
		LTE Band 25/2	3.18	
		LTE Band 41/38	3.18	
		LTE Band 48/43	3.18	
		LTE Band 66/4	3.15	

	5G NR	LTE Band 42	3.13	
		FR1 n7	3.18	
		FR1 n25/n2	3.18	
		FR1 n41/n38	3.18	
		FR1 n66	3.19	
		FR1 n70	3.20	
		FR1 n77/n78	3.19	
DTS	WLAN	2.4GHz WLAN	3.16	3.98
NII		5GHz WLAN	3.09	3.98
6XD		WLAN 6GHz	0.69	3.98
DSS	Bluetooth	2.4GHz Bluetooth	2.42	3.98
Highest Total Exposure Ratio			Ratio ≤ 1.0	
			0.995	

Equipment Class	Frequency Band	Measured APD			Reported PD
		Head (W/m ²)	Body Worn (W/m ²)	Phablet (W/m ²)	psPD (W/m ²)
6XD	6GHz WLAN	4.92	3.16	10.90	7.85
Date of Testing:		2025/10/29 ~ 2025/11/21			

Remark:

1. This device supports LTE B2 / B4 / B5 / B17 / B38/ B42 (3550MHz~3600 MHz)/B43 and B25 / B66 / B26 / B12 / B41/ B48. Since the supported frequency span for LTE B2 /B4 / B5 / B17 / B38/B42 (3550MHz~3600 MHz)/ B43 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12 / B41/ B48, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25 / B66 / B26 / B12 / B41/ B48.
2. This device supports 5GNR n38/n5&n89/n78/n2 and n41/n26/n77/n25. Since the supported frequency span for 5GNR n38/n5/n78/n2 falls completely within the supports frequency span for n41/n26/n77/n25, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n41/n26/n77/n25.

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 Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

2. Administration Data

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR04-KS SAR07-KS	CN1257	314309

Applicant	
Company Name	Motorola Mobility LLC
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

Manufacturer	
Company Name	Motorola Mobility LLC
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

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
- IEC/IEEE 62209-1528:2020
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- IEC TR 63170:2018
- IEC 62479:2010
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2603-1, XT2603-2
FCC ID	IHDT56AW1
IMEI Code	Sample 1: 350158880023512/350158880023520, 350158880024031/350158880024049 350158880023611/350158880023629, 350158880023595/350158880023603 Sample 2: 350158880037975/350158880037983
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 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70: 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz 5G NR n89: 824 MHz ~ 849 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 WLAN U-NII 5: 5925 MHz ~ 6425 MHz WLAN U-NII 6: 6425 MHz ~ 6525 MHz WLAN U-NII 7: 6525 MHz ~ 6875 MHz WLAN U-NII 8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz WPT: 115kHz~ 145 kHz UWB: 6489.6 MHz & 7987.2 MHz

Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA/HSUPA DC-HSDPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax/be HE20/HE40/EHT20/EHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax/be HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160 WLAN 6GHz 802.11a/ax/be HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE /GFSK/ASK NFC: ASK WPT: ASK UWB: BPM-BPSK
HW Version	DVT2
SW Version	W2WV36.22
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark: 1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5G NR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. 2. This device WLAN 2.4GHz support hotspot operation and Bluetooth support tethering applications. 3. This device 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). WLAN 6GHz has no hotspot function. 4. This device supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). 5. This device does not support DTM operation and support GRPS/EGRPS mode up to multi-slot class 12. 6. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO/MIMO mode. 7. The Bluetooth can transmit in MIMO/SISO mode. 8. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E. 9. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head exposure condition. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and extremity exposure conditions. 10. This device implements antenna tuning techniques for several WWAN (cellular) operating modes and frequencies for the purpose of improving antenna efficiency over a broad range of frequencies. Specifically, these techniques are employed in the LTE and 5G NR modes. In this report SAR was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing. The detail descriptions of the antenna tuner and supplemental data for additional information on section18 and appendix H. 11. This device supports HPUE mode for LTE Band 41 and 5G NR n41/n77/n78 with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so power class 3 was chosen to perform full SAR testing and power class 2 verified the worst case of power class 3 SAR. 12. For 5G NR n41/n77/n78 HPUE, 5G NR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing. 13. The UWB output power is -9.1 dBm and it is less than 1mW and exempt from power density testing. 14. 5G NR n89 is only operated in band combination for SUL mode. 15. 5G NR n2/n7/n66/n41/n77/n78 supports UL MIMO mode. 16. The device supports HPUE (power class 2) under SISO mode and HPUE (power class 1.5) under UL MIMO mode for 5G NR n78/n77. 17. This device will be equipped with one Magnetic Protective Cover that does not contain metal components and any	

- electronic circuitry, so Magnetic Protective Cover spot check the worst case of each exposure condition.
18. There are two samples: XT2603-1 is Sample1, XT2603-2 is Sample2. For details different between them refer to the XT2603-1, XT2603-2_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, so sample 1 was chosen to perform full SAR testing and sample 2 verified the worst case of sample 1.
19. This device has NFC function and the NFC SAR report will be separately submitted.
20. RF exposure report for WPC (Wireless power charging) will be separately submitted.
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)
SA	n2	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 50
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n70	FDD	15	5, 10, 15
	n71	FDD	15	5, 10, 15, 20, 25, 30, 35
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
NSA	n2	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 50
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n71	FDD	15	5, 10, 15, 20, 25, 30, 35
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
SUL	n89	FDD	15	5, 10, 15, 20

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																													
FCC ID	IHDT56AW1																																																																												
Equipment Name	Mobile Cellular Phone																																																																												
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																																												
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz 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 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 43: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																																												
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																																												
LTE Voice / Data requirements	Voice and Data																																																																												
LTE Release Version	R18																																																																												
CA Support	Supported, Uplink and Downlink																																																																												
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3																																																																													
Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)																																																																						
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																																							
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																																						
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																						
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																																						
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																																						
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																																						
256 QAM	≥ 1						≤ 5																																																																						
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																												
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																												
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body-worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 14.																																																																												
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.																																																																												
LTE Carrier Aggregation Additional Information	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 2 carriers in the uplink.																																																																												

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		Bandwidth 20 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23780		709	
M	23790		710		23790		710		23790		710	
H	23825		713.5		23800		711		23800		711	
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23230		782	
M	23230		782		23230		782		23230		782	
H	23255		784.5		23230		782		23230		782	
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	26790	824
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5	26940	838
LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905

LTE Band 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	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715
M	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775
LTE Band 42								
	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	42115	3452.5	42140	3455	42165	3457.5	42190	3460
M	42590	3500	42590	3500	42590	3500	42590	3500
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540
LTE Band 42								
	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	43115	3552.5	43140	3555	43165	3557.5	43190	3560
M	43340	3575	43340	3575	43340	3575	43340	3575
H	43565	3597.5	43540	3595	43515	3592.5	43490	3590
LTE Band 71								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133147	665.5	133172	668	133197	670.5	133222	673
M	133247	675.5	133272	678	133297	680.5	133322	683
H	133447	695.5	133422	693	133397	690.5	133372	688
LTE Band 43								
	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	43615	3602.5	43640	3605	43665	3607.5	43690	3610
M	44090	3650	44090	3650	44090	3650	44090	3650
H	44565	3697.5	44540	3695	44515	3692.5	44490	3690
LTE Band 48								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560
LM	55810	3607	55815	3607.5	55820	3608	55830	3609
MH	56170	3643	56165	3642.5	56160	3642	56150	3641
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690

<For LTE Overlap Bands Description>

1) LTE Bands BW

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 2	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 25	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 4	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 66	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 5	Yes	Yes	Yes	Yes		
LTE Band 26	Yes	Yes	Yes	Yes	Yes	
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 17			Yes	Yes		
LTE Band 38			Yes	Yes	Yes	Yes
LTE Band 41			Yes	Yes	Yes	Yes
LTE Band 42			Yes	Yes	Yes	Yes
LTE Band 43			Yes	Yes	Yes	Yes
LTE Band 48			Yes	Yes	Yes	Yes

2) LTE Bands tune up:

Note: For some bands/antennas at some exposure conditions which cannot be covered were fully tested for RF exposure compliance.

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
LTE Band 2	Ant 0	23	22	21	22.8	23	23
LTE Band 25	Ant 0	23	22	21	22.8	23	23
LTE Band 4	Ant 0	23	21.1	19.9	23	23	23
LTE Band 66	Ant 0	23	21.1	19.9	23	23	23
LTE Band 4 PA (Reference Designator)	Ant 0	21	21	19.9	21	21	21
LTE Band 66 PA (Reference Designator)	Ant 0	21	21	19.9	21	21	21
LTE Band 5	Ant 0	24	23.6	23.6	24	24	24
LTE Band 26	Ant 0	24	23.6	23.6	24	24	24
LTE Band 12	Ant 0	24	24	24	24	24	24
LTE Band 17	Ant 0	24	24	24	24	24	24
LTE Band 38	Ant 0	23	23	23	23	23	23
LTE Band 41	Ant 0	23	23	23	23	23	23
LTE Band 41 HPUE	Ant 0	26	26	26	26	26	26

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
LTE Band 2	Ant 1	16.9	17.8	17.8	21.8	24	24
LTE Band 25	Ant 1	16.9	17.8	17.8	21.8	24	24
LTE Band 4	Ant 1	17.1	18	18	21.7	24	24
LTE Band 66	Ant 1	17.1	18	18	21.7	24	24
LTE Band 4 PA (Reference Designator)	Ant 1	17.1	18	18	21.7	23	23
LTE Band 66 PA (Reference Designator)	Ant 1	17.1	18	18	21.7	23	23
LTE Band 5	Ant 1	23.9	23.9	23.9	24	24	24
LTE Band 26	Ant 1	23.9	23.9	23.9	24	24	24
LTE Band 12	Ant 1	24	24	24	24	24	24
LTE Band 17	Ant 1	24	24	24	24	24	24
LTE Band 38	Ant 1	20.8	21.3	20.7	23.5	24	24
LTE Band 41	Ant 1	20.8	21.3	20.7	23.5	24	24
LTE Band 41 HPUE	Ant 1	22.4	22.9	22.3	25.1	27	27

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
LTE Band 2	Ant 2	24	22.1	19.9	24	24	24
LTE Band 25	Ant 2	24	22.1	19.9	24	24	24
LTE Band 2 PA (Reference Designator)	Ant 2	22	22	19.9	22	22	22
LTE Band 25 PA (Reference Designator)	Ant 2	22	22	19.9	22	22	22
LTE Band 4	Ant 2	24	22.8	22.5	24	24	24
LTE Band 66	Ant 2	24	22.8	22.5	24	24	24
LTE Band 4 PA (Reference Designator)	Ant 2	22	22	22	22	22	22
LTE Band 66 PA (Reference Designator)	Ant 2	22	22	22	22	22	22
LTE Band 38	Ant 2	24	21.7	20.5	23.6	24	24
LTE Band 41	Ant 2	24	21.7	20.5	23.6	24	24
LTE Band 41 HPUE	Ant 2	27	23.3	22.1	25.2	27	27

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
LTE Band 42 Part27Q	Ant 5	20.3	24	22.7	24	24	24
LTE Band 43	Ant 5	20.8	24	23.1	24	24	24
LTE Band 48(B42part96)	Ant 5	20.8	24	23.1	24	24	24
LTE Band 48 PA (Reference Designator)	Ant 5	20.8	21	21	21	21	21

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
LTE Band 2	Ant 6	22	22	20.6	22	22	22
LTE Band 25	Ant 6	22	22	20.6	22	22	22
LTE Band 2 PA (Reference Designator)	Ant 6	20	20	20	20	20	20
LTE Band 25 PA (Reference Designator)	Ant 6	20	20	20	20	20	20
LTE Band 4	Ant 6	22	22	20.4	22	22	22
LTE Band 66	Ant 6	22	22	20.4	22	22	22
LTE Band 4 PA (Reference Designator)	Ant 6	20	20	20	20	20	20
LTE Band 66 PA (Reference Designator)	Ant 6	20	20	20	20	20	20
LTE Band 38	Ant 6	22	22	21.1	22	22	22
LTE Band 41	Ant 6	22	22	21.1	22	22	22
LTE Band 41 HPUE	Ant 6	24.5	25	22.7	25	25	25

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
LTE Band 42 Part27Q	Ant 7	20.3	23.2	21.6	23.3	24	24
LTE Band 43	Ant 7	20.3	23.2	21.7	23.3	24	24
LTE Band 48(B42part96)	Ant 7	20.3	23.2	21.7	23.3	24	24
LTE Band 48 PA (Reference Designator)	Ant 7	20.3	22	21.7	22	22	22

Note: For some bands/antennas at some exposure conditions which cannot be covered were fully tested for RF exposure compliance.

4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70: 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz 5G NR n89: 824 MHz ~ 849 MHz
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B4/5/7/12/13/48/66/71
LTE Anchor Bands for n5	LTE B2/4/7/48/66
LTE Anchor Bands for n7	LTE B2/4/5/12/66
LTE Anchor Bands for n25	LTE B7/12/26/66
LTE Anchor Bands for n38	LTE B2/4/5/12/66
LTE Anchor Bands for n41	LTE B2/4/5/12/25/66/71
LTE Anchor Bands for n66	LTE B2/5/7/12/13/48/71
LTE Anchor Bands for n71	LTE B2/7/48/66
LTE Anchor Bands for n77	LTE B2/5/7/12/13/25/41/66/71
LTE Anchor Bands for n78	LTE B2/4/5/7/12/13/25/38/41/66/71

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band															
NR Band 2															
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
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 370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000	1870
M 376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880
H 381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895	378500	1892.5	378000	1890

NR Band 5								
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L 165300	826.5			165800	829	166300	831.5	166800
M 167300	836.5			167300	836.5	167300	836.5	167300
H 169300	846.5			168800	844	168300	841.5	167800

NR Band 7															
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
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	503500	2517.5	504000	2520
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	510500	2552.5	510000	2550

NR Band 25															
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
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 370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000	1870
M 376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5
H 382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895



NR Band 26								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	163300	816.5	163800	819	164300	821.5	164800	824
M	166300	831.5	166300	831.5	166300	831.5	166300	831.5
H	169300	846.5	168800	844	168300	841.5	167800	839

NR Band 66																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
	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	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000	1730
M	349000	1745	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	352500	1762.5	352000	1760

NR Band 71														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133100	665.5	133600	668	134100	670.5	134600	673	135100	675.5	135600	678		
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5
H	139100	695.5	138600	693	138100	690.5	137600	688	137100	685.5	136600	683		

NR Band 38												
	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	515000	2575	515500	2577.5	516000	2580	516500	2582.5	517000	2585	518000	2590
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	523000	2615	522500	2612.5	522000	2610	521500	2607.5	521000	2605	520000	2600

NR Band 41																												
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 45MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	500202	2501.01	500700	2503.5	501204	2506.02	501702	2508.51	502200	2511	502704	2513.52	503202	2516.01	503700	2518.5	504204	2521.02	505200	2526	500202	2501.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	535500	2677.5	534996	2674.98	534498	2672.49	534000	2670	533496	2667.48	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

NR Band 77 SCS30KHz																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	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	3840.00	656000	3840.00	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 SCS30KHz																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	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		
M	650000	3750	650000	3750	650000	3750	650000	3750.00	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.5	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		

NR Band 89								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165300	826.5	165800	829	166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839

NR Band 70						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	339500	1697.5	340000	1700	340500	1702.5
M	340500	1702.5	340500	1702.5		
H	341500	1707.5	341000	1705		

<For NR Overlap Bands Description>
1) NR Bands BW

Band	5 MHz	10 MHz	15 MHz	20 MHz	25 MHz	30 MHz	35 MHz	40 MHz	45 MHz	50 MHz	60 MHz	70 MHz	80 MHz	90 MHz	100 MHz
FR1 n2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes							
FR1 n25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes							
FR1 n5	Yes	Yes	Yes	Yes											
FR1 n26	Yes	Yes	Yes	Yes											
FR1 n38		Yes	Yes	Yes	Yes	Yes		Yes							
FR1 n41		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FR1 n77		Yes	Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes	Yes	Yes	Yes
FR1 n78		Yes	Yes	Yes	Yes	Yes		Yes		Yes	Yes	Yes	Yes	Yes	Yes

2) NR Bands Tune up:

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
5G NR n5	Ant 0	24	24	24	24	24	24
5G NR n89	Ant 0	24	24	24	24	24	24
5G NR n26	Ant 0	24	24	24	24	24	24
5G NR n38	Ant 0	23	23	22.3	23	23	23
5G NR n41	Ant 0	23	23	22.3	23	23	23
FR1 n41 PA (Reference Designator)	Ant 0	23	23	22.3	23	23	23

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
5G NR n2	Ant 1	17.3	18.3	18.3	21.8	24	24
5G NR n25	Ant 1	17.3	18.3	18.3	21.8	24	24
5G NR n5	Ant 1	24	24	24	24	24	24
5G NR n89	Ant 1	24	24	24	24	24	24
5G NR n26	Ant 1	24	24	24	24	24	24
5G NR n38	Ant 1	18	19.2	18.6	21.6	24	24
5G NR n41	Ant 1	18	19.2	18.6	21.6	24	24
FR1 n41 PA (Reference Designator)	Ant 1	18	19.2	18.6	21.6	24	24
5G NR n41 HPUE	Ant 1	21	22.2	21.6	24.6	27	27
FR1 n41 HPUE PA (Reference Designator)	Ant 1	21	22.2	21.6	24.6	27	27

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
5G NR n2	Ant 2	24	21.9	19.6	24	24	24
5G NR n25	Ant 2	24	21.9	19.6	24	24	24
FR1 n25 PA (Reference Designator)	Ant 2	23	21.9	19.6	23	23	23
5G NR n38	Ant 2	24	21.8	19.8	22.5	24	24
5G NR n41	Ant 2	24	21.8	19.8	22.5	24	24
5G NR n41 HPUE	Ant 2	27	24.8	22.8	25.5	27	27

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
5G NR n77	Ant 4	20.7	24	20	21.7	24	24
5G NR n78	Ant 4	20.7	24	20	21.7	24	24
FR1 n77 Part 270 PA (Reference Designator)	Ant 4	20.7	24	20	21.7	24	24
FR1 n78 Part 270 PA (Reference Designator)	Ant 4	20.7	24	20	21.7	24	24
5G NR n77 HPUE	Ant 4	23.7	27	23	24.7	27	27
5G NR n78 HPUE	Ant 4	23.7	27	23	24.7	27	27

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
5G NR n77	Ant 5	19.2	21.1	19.6	22.9	24	24
5G NR n78	Ant 5	19.2	21.1	19.6	22.9	24	24
FR1 n77 Part 270 PA (Reference Designator)	Ant 5	19.2	21.1	19.6	22.9	24	24
FR1 n78 Part 270 PA (Reference Designator)	Ant 5	19.2	21.1	19.6	22.9	24	24
5G NR n77 HPUE	Ant 5	22.2	24.1	22.6	25.9	27	27
5G NR n78 HPUE	Ant 5	22.2	24.1	22.6	25.9	27	27

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
5G NR n38	Ant 6	18.1	18.7	16.1	20.7	22	22
5G NR n41	Ant 6	18.1	18.7	16.1	20.7	23	23
5G NR n41 HPUE	Ant 6	21.1	21.7	19.1	23.7	25	25

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
5G NR n77	Ant 7	18.1	20.5	18.4	20.5	24	24
5G NR n78	Ant 7	18.1	20.5	18.4	20.5	24	24
FR1 n77 Part 270 PA (Reference Designator)	Ant 7	18.1	20.5	18.4	20.5	23	23
FR1 n78 Part 270 PA (Reference Designator)	Ant 7	18.1	20.5	18.4	20.5	23	23
5G NR n77 HPUE	Ant 7	21.1	23.5	21.4	23.5	27	27
5G NR n78 HPUE	Ant 7	21.1	23.5	21.4	23.5	27	27
FR1 n77 Part 270 HPUE PA (Reference Designator)	Ant 7	21.1	23.5	21.4	23.5	25	25
FR1 n78 Part 270 HPUE PA (Reference Designator)	Ant 7	21.1	23.5	21.4	23.5	25	25

Band	Antenna	Head	Body-worn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
5G NR n77	Ant 8	21	21	17.4	21.2	21.2	24
5G NR n78	Ant 8	21	21	17.4	21.2	21.2	24
FR1 n77 Part 270 PA (Reference Designator)	Ant 8	21	21	17.4	21.2	21.2	22.5
FR1 n78 Part 270 PA (Reference Designator)	Ant 8	21	21	17.4	21.2	21.2	22.5
5G NR n77 HPUE	Ant 8	24	24	20.4	24.2	24.2	27
5G NR n78 HPUE	Ant 8	24	24	20.4	24.2	24.2	27
FR1 n77 Part 270 HPUE PA (Reference Designator)	Ant 8	24	24	20.4	24.2	24.2	25.5
FR1 n78 Part 270 HPUE PA (Reference Designator)	Ant 8	24	24	20.4	24.2	24.2	25.5

Note: For some bands/antennas at some exposure conditions which cannot be covered were fully tested for RF exposure compliance.

5. Smart Transmit feature for RF Exposure compliance

The Qualcomm® Smart Transmit™ Plus of Smart Transmit (GEN2) Feature operates based on pre-defined sub6 antenna groups (AG). This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature. The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN and WLAN/BT transmitter to ensure the product in compliance with RF exposure limit over a defined time window. To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) version 24 to enable the Smart Transmit GEN2 Feature.

<Terminologies in this report>

P_{limit}	The time-averaged RF power which corresponds to SAR_design_target.
P_{max}	Maximum target power level
SAR_design_target:	The design target for SAR compliance. It should be less than regulatory SAR limit to account for all device design related uncertainty.
SAR char	P _{limit} for all the technologies/bands for all applicable DSI

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at WWAN and WLAN/BT bands. It will then be used as input for Smart Transmit to control and manage RF exposure for WWAN and WLAN/BT bands.

<SAR design target and uncertainty>

Item	Uncertainty dB (k=2)
Total uncertainty	1.5

To account for total uncertainty, SAR_design_target should be determined as:

$$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

Antenna Group:

Antenna Group 0 (AG0)	ANT1 & ANT4 & ANT5 & ANT6 & ANT7 & ANT3
Antenna Group 1 (AG1)	ANT0 & ANT2 & ANT8



The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit EFS settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Device State Index DSI).

<P_{limit} for supported technologies and bands (P_{limit} in EFS file)>

Band	Antenna	Head DSI 2	Body-worn DSI 3	Hotspot DSI 7	Extremity DSI 6	Sensor off DSI 4	Pmax
GSM850	Ant 0	30.7	24.6	24.6	24.2	24.2	24.2
GSM850	Ant 1	23.5	25.8	25.8	24.7	24.7	24.7
GSM1900	Ant 1	16.5	18.1	18.1	19.9	21.0	21.0
GSM1900	Ant 2	30.9	20.5	19.7	22.1	20.5	20.5
WCDMA II	Ant 1	16.5	17.4	17.4	20.9	22.0	22.0
WCDMA II	Ant 2	32.1	21.6	19.3	22.7	23.0	23.0
WCDMA IV	Ant 1	17	17.6	17.6	21.3	22.0	22.0
WCDMA IV	Ant 2	32	21.2	18.7	22.8	23.0	23.0
WCDMA V	Ant 0	29.2	23.4	23.4	25.6	23.0	23.0
WCDMA V	Ant 1	23.4	23.1	23.1	27.3	23.0	23.0
LTE Band 25(2)	Ant 0	33.5	21.0	20.0	21.8	22.0	22.0
LTE Band 25(2)	Ant 1	15.9	16.8	16.8	20.8	23.0	23.0
LTE Band 25(2)	Ant 2	31.3	21.1	18.9	23.1	23.0	23.0
LTE Band 25(2) PA (Reference Designator)	Ant 2	31.3	21.1	18.9	23.1	23.0	21.0
LTE Band 25(2)	Ant 6	21.3	22.1	19.6	21.1	21.0	21.0
LTE Band 25(2) PA (Reference Designator)	Ant 6	21.3	22.1	19.6	21.1	21.0	19.0
LTE Band 66(4)	Ant 0	33.8	20.1	18.9	22.4	22.0	22.0
LTE Band 66(4) PA (Reference Designator)	Ant 0	33.8	20.1	18.9	22.4	22.0	20.0
LTE Band 66(4)	Ant 1	16.1	17.0	17.0	20.7	23.0	23.0
LTE Band 66(4) PA (Reference Designator)	Ant 1	16.1	17.0	17.0	20.7	23.0	22.0
LTE Band 66(4)	Ant 2	32	21.8	21.5	23.1	23.0	23.0
LTE Band 66(4) PA (Reference Designator)	Ant 2	32	21.8	21.5	23.1	23.0	21.0
LTE Band 66(4)	Ant 6	21.1	22.1	19.4	21.4	21.0	21.0
LTE Band 66(4) PA (Reference Designator)	Ant 6	21.1	22.1	19.4	21.4	21.0	19.0
LTE Band 26(5)	Ant 0	29.1	22.6	22.6	23.0	23.0	23.0
LTE Band 26(5)	Ant 1	22.9	22.9	22.9	23.0	23.0	23.0
LTE Band 7	Ant 0	33.2	25.6	20.4	28.3	22.0	22.0
LTE Band 7 PA (Reference Designator)	Ant 0	33.2	25.6	20.4	28.3	22.0	19.0
LTE Band 7	Ant 1	17.6	18.9	18.9	20.9	23.0	23.0
LTE Band 7 PA (Reference Designator)	Ant 1	17.6	18.9	18.9	20.9	23.0	21.0
LTE Band 7	Ant 2	31.3	20.3	18.8	21.0	23.0	23.0
LTE Band 7 PA (Reference Designator)	Ant 2	31.3	20.3	18.8	21.0	23.0	21.0
LTE Band 7	Ant 6	20.8	21.6	19.1	21.3	21.0	21.0
LTE Band 7 PA (Reference Designator)	Ant 6	20.8	21.6	19.1	21.3	21.0	19.0
LTE Band 12(17)	Ant 0	31.7	25.1	23.4	23.0	23.0	23.0
LTE Band 12(17)	Ant 1	24.3	23.9	23.9	23.0	23.0	23.0
LTE Band 13	Ant 0	30.5	23.4	23.4	23.0	23.0	23.0
LTE Band 71	Ant 0	32.5	25.3	25.1	23.0	23.0	23.0
LTE Band 71	Ant 1	26.1	25.9	27.4	23.0	23.0	23.0
LTE Band 41(38)	Ant 0	31.8	24.2	21.5	21.4	21.4	20.0
LTE Band 41 HPUE	Ant 0	31.8	24.2	21.5	21.4	21.4	21.4
LTE Band 41(38)	Ant 1	17.8	18.3	17.7	20.5	22.4	21.0
LTE Band 41 HPUE	Ant 1	17.8	18.3	17.7	20.5	22.4	22.4
LTE Band 41(38)	Ant 2	30.7	18.7	17.5	20.6	22.4	21.0
LTE Band 41 HPUE	Ant 2	30.7	18.7	17.5	20.6	22.4	22.4
LTE Band 41(38)	Ant 6	19.9	21.0	18.1	20.7	20.4	19.0
LTE Band 41 HPUE	Ant 6	19.9	21.0	18.1	20.7	20.4	20.4



LTE Band 42 Part27Q	Ant 5	17.3	22.5	19.7	21.5	21.0	21.0
LTE Band 42 Part27Q	Ant 7	17.3	20.2	18.6	20.3	21.0	21.0
LTE Band 48/(B43)/(B42part96)	Ant 5	17.8	21.0	20.1	21.1	21.0	21.0
LTE Band 48 PA (Reference Designator)	Ant 5	17.8	21.0	20.1	21.1	21.0	18.0
LTE Band 48/(B43)(B42part96)	Ant 7	17.3	20.2	18.7	20.3	21.0	21.0
LTE Band 48 PA (Reference Designator)	Ant 7	17.3	20.2	18.7	20.3	21.0	19.0
FR1 n25(2)	Ant 1	16.3	17.3	17.3	20.8	23.0	23.0
FR1 n25(2)	Ant 2	33.2	20.9	18.6	23.0	23.0	23.0
FR1 n25 PA (Reference Designator)	Ant 2	33.2	20.9	18.6	23.0	23.0	22.0
FR1 n26(5)(89)	Ant 0	30.1	23.3	23.3	23.0	23.0	23.0
FR1 n26(5)(89)	Ant 1	23.8	23.6	23.6	23.0	23.0	23.0
FR1 n7	Ant 1	18.0	18.7	18.7	20.6	23.0	23.0
FR1 n7 PA (Reference Designator)	Ant 1	18.0	18.7	18.7	20.6	23.0	22.0
FR1 n7	Ant 2	31.3	18.7	18.2	20.6	23.0	23.0
FR1 n66	Ant 1	16.2	17.1	17.1	19.9	23.0	23.0
FR1 n66	Ant 2	33.0	20.7	18.9	23.7	23.0	23.0
FR1 n66 PA (Reference Designator)	Ant 2	33.0	20.7	18.9	23.7	23.0	22.0
FR1 n70	Ant 1	16.2	17.4	17.4	20.4	23.0	23.0
FR1 n70	Ant 2	32.7	21.0	19.1	24.4	23.0	23.0
FR1 n71	Ant 0	33.3	25.6	25.6	23.0	23.0	23.0
FR1 n71	Ant 1	25.8	27.9	27.8	23.0	23.0	23.0
FR1 n41(38)	Ant 0	31.8	24.4	21.3	26.0	22.0	22.0
FR1 n41 PA (Reference Designator)	Ant 0	31.8	24.4	21.3	26.0	22.0	22.0
FR1 n41(38)	Ant 1	17.0	18.2	17.6	20.6	23.0	23.0
FR1 n41 PA (Reference Designator)	Ant 1	17.0	18.2	17.6	20.6	23.0	23.0
FR1 n41 HPUE	Ant 1	17.0	18.2	17.6	20.6	23.0	23.0
FR1 n41 HPUE PA (Reference Designator)	Ant 1	17.0	18.2	17.6	20.6	23.0	23.0
FR1 n41(38)	Ant 2	32.6	20.8	18.8	21.5	23.0	23.0
FR1 n41 HPUE	Ant 2	32.6	20.8	18.8	21.5	23.0	23.0
FR1 n38	Ant 6	17.1	17.7	15.1	19.7	21.0	21.0
FR1 n41	Ant 6	17.1	17.7	15.1	19.7	22.0	22.0
FR1 n41 HPUE	Ant 6	17.1	17.7	15.1	19.7	22.0	21.0
FR1 n77(78) Part 27O	Ant 4	19.7	23.2	19.0	20.7	23.0	23.0
FR1 n77(78) Part 27O PA (Reference Designator)	Ant 4	19.7	23.2	19.0	20.7	23.0	23.0
FR1 n77(78) Part 27O HPUE	Ant 4	19.7	23.2	19.0	20.7	23.0	23.0
FR1 n77(78) Part 27O	Ant 5	18.2	20.1	18.6	21.9	23.0	23.0
FR1 n77(78) Part 27O PA (Reference Designator)	Ant 5	18.2	20.1	18.6	21.9	23.0	23.0
FR1 n77(78) Part 27O HPUE	Ant 5	18.2	20.1	18.6	21.9	23.0	23.0
FR1 n77(78) Part 27O	Ant 7	17.1	19.5	17.4	19.5	23.0	23.0
FR1 n77(78) Part 27O PA (Reference Designator)	Ant 7	17.1	19.5	17.4	19.5	23.0	22.0
FR1 n77(78) Part 27O HPUE	Ant 7	17.1	19.5	17.4	19.5	23.0	23.0
FR1 n77(78) Part 27O HPUE PA (Reference Designator)	Ant 7	17.1	19.5	17.4	19.5	23.0	21.0
FR1 n77(78) Part 27O	Ant 8	20.0	20.0	16.4	20.2	20.2	23.0
FR1 n77(78) Part 27O PA (Reference Designator)	Ant 8	20.0	20.0	16.4	20.2	20.2	21.5
FR1 n77(78) Part 27O HPUE	Ant 8	20.0	20.0	16.4	20.2	20.2	23.0
FR1 n77(78) Part 27O HPUE PA (Reference Designator)	Ant 8	20.0	20.0	16.4	20.2	20.2	21.5
WLAN2.4G Ant 3	Ant 3	17.0	20.0	17.5	20.0	20.0	20.0
WLAN2.4G Ant 6	Ant 6	17.0	20.0	17.5	20.0	20.0	20.0
WLAN2.4G Ant 3+6	Ant 3+6	17,17	20,20	17.5,17.5	20,20	20,20	23.0
WLAN5.2G Ant 4	Ant 4	15.0	19.5	16.0	19.5	19.5	19.5
WLAN5.2G Ant 5	Ant 5	15.0	19.5	16.0	19.5	19.5	19.5
WLAN5.2G Ant 4+5	Ant 4+5	15,15	19.5,19.5	16,16	19.5,19.5	19.5,19.5	22.5
WLAN5.3G Ant 4	Ant 4	15.0	19.5		19.5	19.5	19.5
WLAN5.3G Ant 5	Ant 5	15.0	19.5		19.5	19.5	19.5
WLAN5.3G Ant 4+5	Ant 4+5	15,15	19.5,19.5		19.5,19.5	19.5,19.5	22.5
WLAN5.5G Ant 4	Ant 4	15.0	18.5		19.5	20.0	20.0

WLAN5.5G Ant 5	Ant 5	15.0	18.5		19.0	20.0	20.0
WLAN5.5G Ant 4+5	Ant 4+5	15,15	18.5,18.5		19.5,19.5	20,20	23.0
WLAN5.8G Ant 4	Ant 4	15.0	18.0	15.5	19.0	20.0	20.0
WLAN5.8G Ant 5	Ant 5	15.0	18.0	15.5	19.0	19.5	19.5
WLAN5.8G Ant 4+5	Ant 4+5	15,15	18,18	15.5,15.5	19,19	20,20	23.0
WLAN6G Band 5 Ant 4	Ant 4	15.0	16.5		16.0	17.0	17.0
WLAN6G Band 5 Ant 5	Ant 5	15.0	16.5		16.0	17.0	17.0
WLAN6G Band 5 Ant 4+5	Ant 4+5	15,15	16.5,16.5		16,16	17,17	20.0
WLAN6G Band 6 Ant 4	Ant 4	13.5	16.0		16.0	16.0	16.0
WLAN6G Band 6 Ant 5	Ant 5	13.5	16.0		16.0	16.0	16.0
WLAN6G Band 6 Ant 4+5	Ant 4+5	13.5,13.5	16,16		16,16	16,16	19.0
WLAN6G Band 7 Ant 4	Ant 4	16.5	16.5		16.5	16.5	16.5
WLAN6G Band 7 Ant 5	Ant 5	16.0	16.0		16.0	16.0	16.0
WLAN6G Band 7 Ant 4+5	Ant 4+5	16.5,16.5	16.5,16.5		16.5,16.5	16.5,16.5	19.5
WLAN6G Band 8 Ant 4	Ant 4	16.0	16.0		16.0	16.0	16.0
WLAN6G Band 8 Ant 5	Ant 5	15.5	15.5		15.5	15.5	15.5
WLAN6G Band 8 Ant 4+5	Ant 4+5	16,16	16,16		16,16	16,16	19.0
Bluetooth	Ant 3	19.3	24.4	20.8	17.0	17.0	16.5
Bluetooth	Ant 6	20.0	21.2	20.1	21.2	20.0	19.5
Bluetooth	Ant 6+3	19.3,19.3	21.2,21.2	20.1,20.1	17,17	17,17	16.4
FR1 n2 PC2	Ant 2+1	16.3,16.3	17.3,17.3	17.3,17.3	20.8,20.8	23,23	23.0
FR1 n7 PC2	Ant 2+1	18,18	18.7,18.7	18.2,18.2	20.6,20.6	23,23	23.0
FR1 n66 PC2	Ant 2+1	16.2,16.2	17.1,17.1	17.1,17.1	19.9,19.9	23,23	23.0
FR1 n41 PC2	Ant 2+1	17,17	18.2,18.2	17.6,17.6	20.6,20.6	23,23	23.0
FR1 n41 PC2	Ant 6+0	17.1,17.1	17.7,17.7	15.1,15.1	19.7,19.7	22,22	22.0
FR1 n77(78) Part 27O PC2	Ant 8+4	19.7,19.7	20,20	16.4,16.4	20.2,20.2	20.2,20.2	23.0
FR1 n77(78) Part 27O PC1.5	Ant 8+4	19.7,19.7	20,20	16.4,16.4	20.2,20.2	20.2,20.2	23.0
FR1 n77(78) Part 27O PC2	Ant 7+5	17.1,17.1	19.5,19.5	17.4,17.4	19.5,19.5	23,23	23.0
FR1 n77(78) Part 27O PC1.5	Ant 7+5	17.1,17.1	19.5,19.5	17.4,17.4	19.5,19.5	23,23	23.0

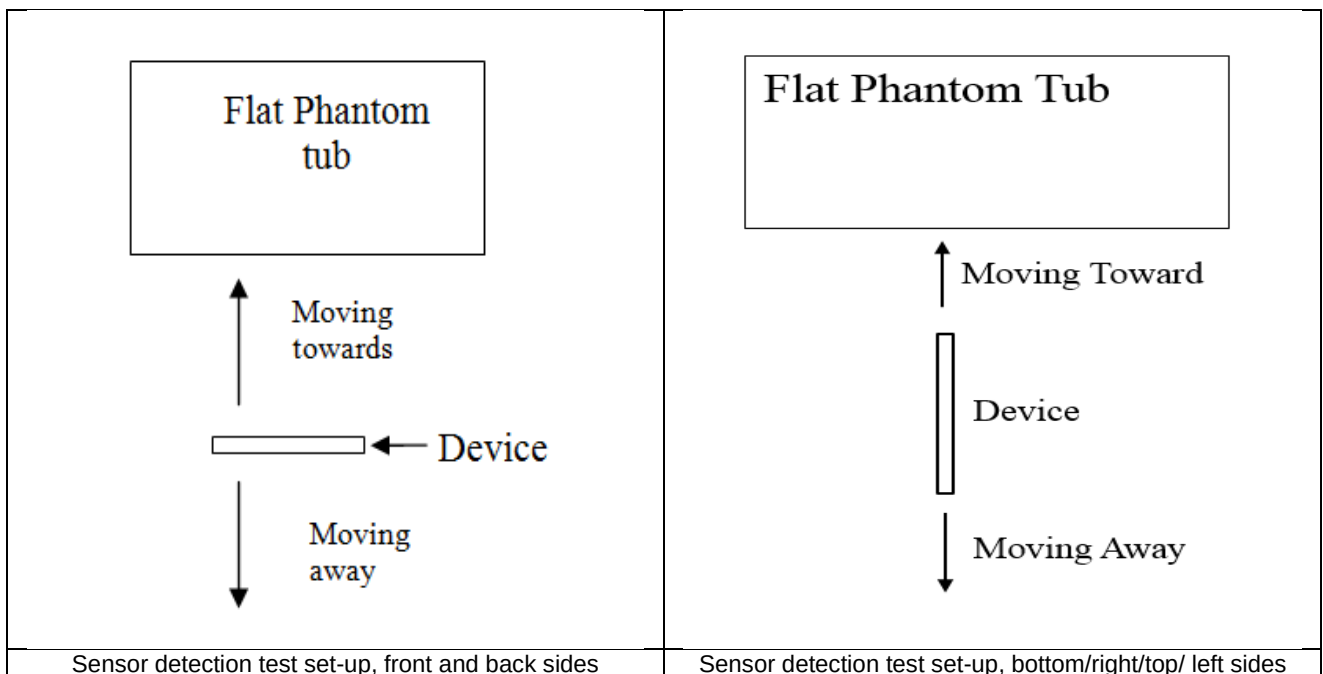
Note:

- 1) *Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + Total uncertainty. (The DUT's device uncertainty is 1.0 dB for Sub-6GHz WWAN and 1.5 dB for WLAN/BT bands.)
- 2) All Plimit power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD & WLAN/BT).
- 3) The max allowed output power is the Plimit + Total uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.

6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

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 and the tissue-equivalent medium for highest frequency (7125MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
3. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/top/bottom/left/right sides of the device. When front/back/top/bottom/left/right sides of handheld condition is detected reduced power will be active.
4. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or top or right or left side of the device use a detection threshold distance. When front/back/top/right/left sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
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.



<P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	15	19	18	23

<Handheld for ANT 0&2>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	10	15	13	17	14	19	11	16

<Handheld for ANT 1&7>

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	7	12	9	14	11	16	8	14

<Handheld for ANT 3&4&5&6>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	9	14	3	7	12	17	8	14

7. RF Exposure Limits

7.1 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.

7.2 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.

7.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310. The unit of power density evaluation is W/m² or mW/cm².

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

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

Note: 1.0 mW/cm² is 10 W/m²

8. Specific Absorption Rate (SAR)

8.1 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.

8.2 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:

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

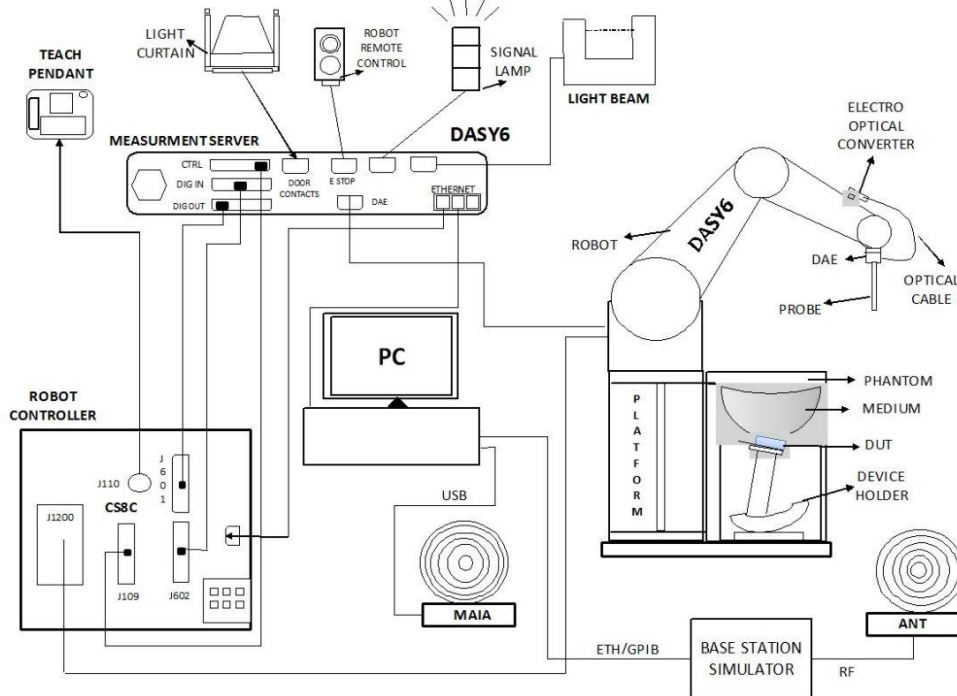
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

9. 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 Win7 or Win10 and the DASY5 or DASY6 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.

Note: 1. DASY6 software used: DASY6 mmWave V3.2.0.1840 and older generations and used the developed Plane-to-Plane Phase Reconstruction (PTP-PR) Algorithm which was used in PD measurement.

9.1 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	4 MHz – 10 GHz Linearity: ± 0.2 dB (30 MHz – 10 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically <1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

9.2 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

9.3 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 or for evaluating transmitters operating at low frequencies. ELI is fully compatible with standard and all known tissue simulating liquids.

9.4 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 head, 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

10. 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

10.1 *Spatial Peak SAR Evaluation*

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

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

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

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

10.2 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.

10.3 Area Scan

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

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

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

10.4 Zoom Scan

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

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

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

10.5 Volume Scan Procedures

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

10.6 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.

11. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	Mar. 12, 2025	Mar. 11, 2026
SPEAG	835MHz System Validation Kit	D835V2	4d162	Dec. 13, 2024	Dec. 12, 2025
SPEAG	1750MHz System Validation Kit	D1750V2	1090	Mar. 12, 2025	Mar. 11, 2026
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	Mar. 13, 2025	Mar. 12, 2026
SPEAG	2450MHz System Validation Kit	D2450V2	1095	Feb. 08, 2024	Feb. 06, 2026
SPEAG	2600MHz System Validation Kit	D2600V2	1112	Dec. 18, 2023	Dec. 16, 2025
SPEAG	3500MHz System Validation Kit	D3500V2	1037	Nov. 20, 2023	Nov. 18, 2025
SPEAG	3700MHz System Validation Kit	D3700V2	1008	Nov. 20, 2023	Nov. 18, 2025
SPEAG	3900MHz System Validation Kit	D3900V2	1048	Mar. 09, 2023	Mar. 06, 2026
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	Sep. 17, 2025	Sep. 16, 2026
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1026	Jan. 28, 2025	Jan. 27, 2026
SPEAG	5G Verification Source	10GHz	2005	Dec. 04, 2024	Dec. 03, 2025
SPEAG	Data Acquisition Electronics	DAE4	1338	Mar. 18, 2025	Mar. 17, 2026
SPEAG	Data Acquisition Electronics	DAE4	1358	Jul. 15, 2025	Jul. 14, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7706	May. 22, 2025	May. 21, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7630	Sep. 30, 2025	Sep. 29, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7918	Mar. 24, 2025	Mar. 23, 2026
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9553	Nov. 15, 2024	Nov. 14, 2025
SPEAG	mmWave Phantom	mmWave	1065	NCR	NCR
SPEAG	SAM Twin Phantom	SAM Twin	TP-2024	None	None
Beichuang	Thermo-Hygrometer	HTC-1	1959634	May. 27, 2025	May. 26, 2026
Testo	Thermo-Hygrometer	HTC-1	55011	2025/1/2	2026/1/1
SPEAG	Phone Positioner	N/A	N/A	None	None
Rohde & Schwarz	Signal Generator	SMB100A	100455	Jan. 02, 2025	Jan. 01, 2026
Keysight	Preamplifier	83017A	MY57280106	Apr. 18, 2025	Apr. 17, 2026
Anritsu	Radio Communication Analyzer	MT8820C	6201563900	Jul. 02, 2025	Jul. 01, 2026
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	Jul. 02, 2025	Jul. 01, 2026
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	Feb. 24, 2025	Feb. 23, 2026
Anritsu	Vector Signal Generator	MG3710A	6201682672	Jan. 03, 2025	Jan. 02, 2026
Rohde & Schwarz	Power Meter	NRVD	102081	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRP50S	101385	Oct. 14, 2025	Oct. 13, 2026
R&S	BLUETOOTH TESTER	CBT	101246	Jul. 03, 2025	Jul. 02, 2026
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	Oct. 11, 2025	Oct. 10, 2026
TES	DIGITAC THERMOMETER	TYPE-K	220305411	Jan. 02, 2025	Jan. 01, 2026
ARRA	Power Divider	A3200-2	N/A	Note 1	
mini-circuits	amplifier	ZVE-3W-83+	162601250	Note 1	
MCL	Attenuation1	BW-S10W5+	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	
ET Industries	Dual Directional Coupler	C-058-10	N/A	Note 1	
ATM	Dual Directional Coupler	C122H-10	P610410z-02	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.

12. System Verification

12.1 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.

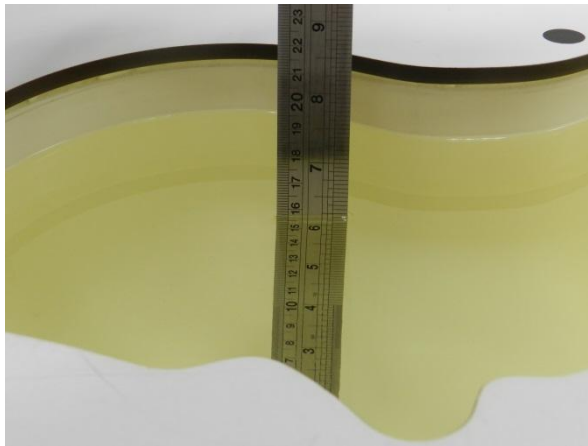


Fig 11.1 Photo of Liquid Height for Head SAR

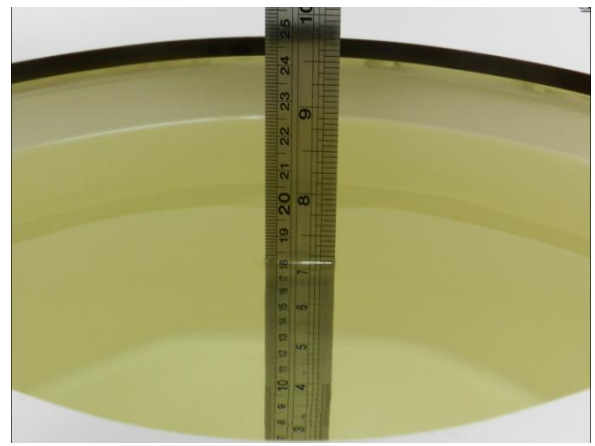


Fig 11.2 Photo of Liquid Height for Body SAR

12.2 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 (ϵ_r)
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)	Liquid Temp (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	22.6	0.886	43	0.89	41.9	-0.45	2.63	±5.0	2025/10/29
750	22.8	0.892	43	0.89	41.9	0.22	2.63	±5.0	2025/10/30
835	22.6	0.918	42.5	0.9	41.5	2	2.41	±5.0	2025/10/31
835	22.9	0.915	42.5	0.9	41.5	1.67	2.41	±5.0	2025/11/1
1750	22.9	1.37	40.8	1.37	40.1	0	1.75	±5.0	2025/11/2
1750	22.9	1.36	40.8	1.37	40.1	-0.73	1.75	±5.0	2025/11/3
1900	22.7	1.44	39.2	1.4	40	2.86	-2	±5.0	2025/11/4
1900	22.6	1.44	39.1	1.4	40	2.86	-2.25	±5.0	2025/11/5
2450	22.7	1.76	39.3	1.8	39.2	-2.22	0.26	±5.0	2025/11/14
2450	22.6	1.76	39.2	1.8	39.2	-2.22	0	±5.0	2025/11/15
2600	22.8	1.92	38.8	1.96	39	-2.04	-0.51	±5.0	2025/11/6
2600	22.9	1.91	38.7	1.96	39	-2.55	-0.77	±5.0	2025/11/7
3500	22.8	2.97	37.6	2.91	37.9	2.06	-0.79	±5.0	2025/11/8
3500	22.7	2.98	37.8	2.91	37.9	2.41	-0.26	±5.0	2025/11/9
3700	22.8	3.19	37.6	3.12	37.7	2.24	-0.27	±5.0	2025/11/10
3700	22.8	3.16	37.5	3.12	37.7	1.28	-0.53	±5.0	2025/11/11
3900	22.6	3.4	37.3	3.33	37.51	2.1	-0.56	±5.0	2025/11/12
3900	22.7	3.37	37.3	3.33	37.51	1.2	-0.56	±5.0	2025/11/13
5250	22.6	4.65	36.3	4.71	35.95	-1.27	0.97	±5.0	2025/11/16
5250	22.8	4.69	36.5	4.71	35.95	-0.42	1.53	±5.0	2025/11/17
5600	22.8	5.05	36	5.07	35.5	-0.39	1.41	±5.0	2025/11/18
5600	22.6	5.08	35.9	5.07	35.5	0.2	1.13	±5.0	2025/11/19
5800	22.7	5.19	35.5	5.27	35.3	-1.52	0.57	±5.0	2025/11/20
5800	22.9	5.28	35.6	5.27	35.3	0.19	0.85	±5.0	2025/11/21
6500	22.8	6.12	34	6.07	34.5	0.82	-1.45	±5.0	2025/11/18

12.3 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.

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 (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2025/10/29	750	Head	50	D750V3 - 1087	EX3DV4 - SN7630	DAE4 Sn1338	0.442	8.68	8.84	1.84	0.292	5.61	5.84	4.1
2025/10/30	750	Head	50	D750V3 - 1087	EX3DV4 - SN7630	DAE4 Sn1338	0.445	8.68	8.9	2.53	0.294	5.61	5.88	4.81
2025/10/31	835	Head	50	D835V2 - 4d162	EX3DV4 - SN7630	DAE4 Sn1338	0.432	9.08	8.64	-4.85	0.288	5.85	5.76	-1.54
2025/11/1	835	Head	50	D835V2 - 4d162	EX3DV4 - SN7630	DAE4 Sn1338	0.419	9.08	8.38	-7.71	0.277	5.85	5.54	-5.3
2025/11/2	1750	Head	50	D1750V2 - 1090	EX3DV4 - SN7630	DAE4 Sn1338	1.98	36.6	39.6	8.2	1.07	19.5	21.4	9.74
2025/11/3	1750	Head	50	D1750V2 - 1090	EX3DV4 - SN7630	DAE4 Sn1338	1.96	36.6	39.2	7.1	1.05	19.5	21	7.69
2025/11/4	1900	Head	50	D1900V2 - 5d170	EX3DV4 - SN7630	DAE4 Sn1338	2.12	39.1	42.4	8.44	1.11	20.6	22.2	7.77
2025/11/5	1900	Head	50	D1900V2 - 5d170	EX3DV4 - SN7630	DAE4 Sn1338	2.13	39.1	42.6	8.95	1.11	20.6	22.2	7.77
2025/11/14	2450	Head	50	D2450V2 - 1095	EX3DV4 - SN7630	DAE4 Sn1338	2.64	52.6	52.8	0.38	1.23	24.7	24.6	-0.4
2025/11/15	2450	Head	50	D2450V2 - 1095	EX3DV4 - SN7630	DAE4 Sn1338	2.63	52.6	52.6	0	1.23	24.7	24.6	-0.4
2025/11/6	2600	Head	50	D2600V2 - 1112	EX3DV4 - SN7630	DAE4 Sn1338	2.7	55.1	54	-2	1.22	24.8	24.4	-1.61
2025/11/7	2600	Head	50	D2600V2 - 1112	EX3DV4 - SN7630	DAE4 Sn1338	2.7	55.1	54	-2	1.22	24.8	24.4	-1.61
2025/11/8	3500	Head	50	D3500V2 - 1037	EX3DV4 - SN7630	DAE4 Sn1338	3.59	65.4	71.8	9.79	1.35	24.7	27	9.31
2025/11/9	3500	Head	50	D3500V2 - 1037	EX3DV4 - SN7630	DAE4 Sn1338	3.58	65.4	71.6	9.48	1.32	24.7	26.4	6.88
2025/11/10	3700	Head	50	D3700V2 - 1008	EX3DV4 - SN7630	DAE4 Sn1338	3.55	67.2	71	5.65	1.3	24.4	26	6.56
2025/11/11	3700	Head	50	D3700V2 - 1008	EX3DV4 - SN7630	DAE4 Sn1338	3.67	67.2	73.4	9.23	1.32	24.4	26.4	8.2
2025/11/12	3900	Head	50	D3900V2 - 1048	EX3DV4 - SN7918	DAE4 Sn1358	3.76	69.1	75.2	8.83	1.31	24.1	26.2	8.71
2025/11/13	3900	Head	50	D3900V2 - 1048	EX3DV4 - SN7918	DAE4 Sn1358	3.67	69.1	73.4	6.22	1.26	24.1	25.2	4.56
2025/11/16	5250	Head	50	D5GHzV2 - 1113	EX3DV4 - SN7630	DAE4 Sn1338	3.74	78.1	74.8	-4.23	1.07	22.4	21.4	-4.46
2025/11/17	5250	Head	50	D5GHzV2 - 1113	EX3DV4 - SN7630	DAE4 Sn1338	3.76	78.1	75.2	-3.71	1.07	22.4	21.4	-4.46
2025/11/18	5600	Head	50	D5GHzV2 - 1113	EX3DV4 - SN7630	DAE4 Sn1338	4.04	80	80.8	1	1.14	23	22.8	-0.87
2025/11/19	5600	Head	50	D5GHzV2 - 1113	EX3DV4 - SN7630	DAE4 Sn1338	4.07	80	81.4	1.75	1.15	23	23	0
2025/11/20	5800	Head	50	D5GHzV2 - 1113	EX3DV4 - SN7630	DAE4 Sn1338	3.64	77.9	72.8	-6.55	1.03	22.3	20.6	-7.62
2025/11/21	5800	Head	50	D5GHzV2 - 1113	EX3DV4 - SN7630	DAE4 Sn1338	3.7	77.9	74	-5.01	1.05	22.3	21	-5.83
2025/11/18	6500	Head	50	D6.5GHzV2 - 1026	EX3DV4 - SN7706	DAE4 Sn1358	14.9	296	298	0.68	2.77	54.8	55.4	1.09

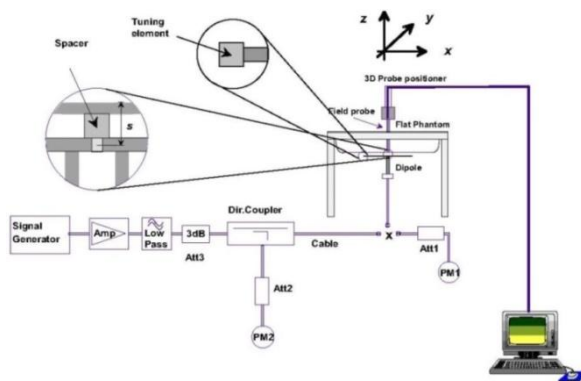


Fig 11.3.1 System Performance Check Setup



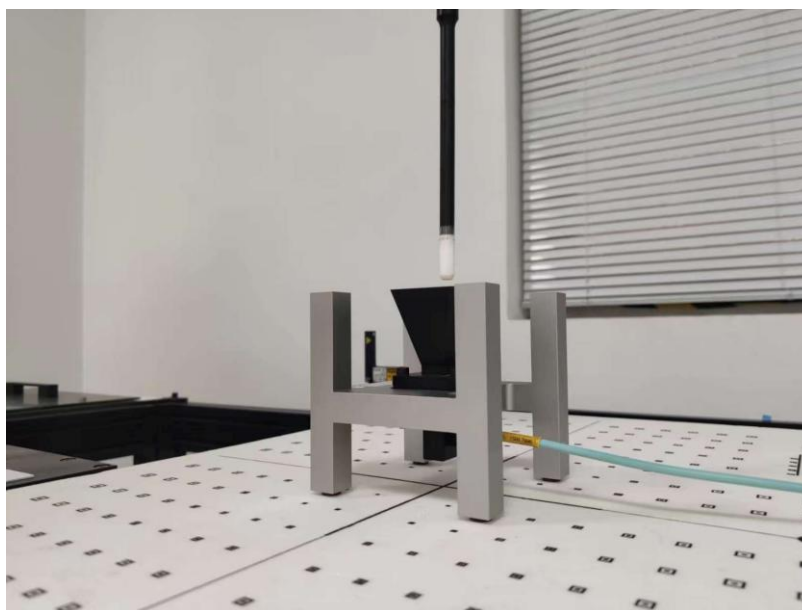
Fig 11.3.2 Setup Photo

12.4 PD System Verification Results

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

Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured psPDn+ 4 cm ² (W/m ²)	Normalized 4 cm ² (W/m ²)	Targeted psPDn+ 4 cm ² (W/m ²)	Deviation (dB)	Measured psPDtot+ 4 cm ² (W/m ²)	Normalized 4 cm ² (W/m ²)	Targeted psPDtot+ 4 cm ² (W/m ²)	Deviation (dB)	Measured psPDmod+ 4 cm ² (W/m ²)	Normalized 4 cm ² (W/m ²)	Targeted psPDmod+ 4 cm ² (W/m ²)	Deviation (dB)	Test date
10	10GHz_2005	9553	1338	10	100	95.3	151.0	171	-0.54	96.7	153.2	172	-0.50	98.5	156.1	177	-0.55	2025/11/10

Note: (1) means the measured PD was normalized to Prad power which can be referred to DASY Calibration Certificate in appendix C.



System Verification Setup Photo

13. RF Exposure Positions

13.1 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.

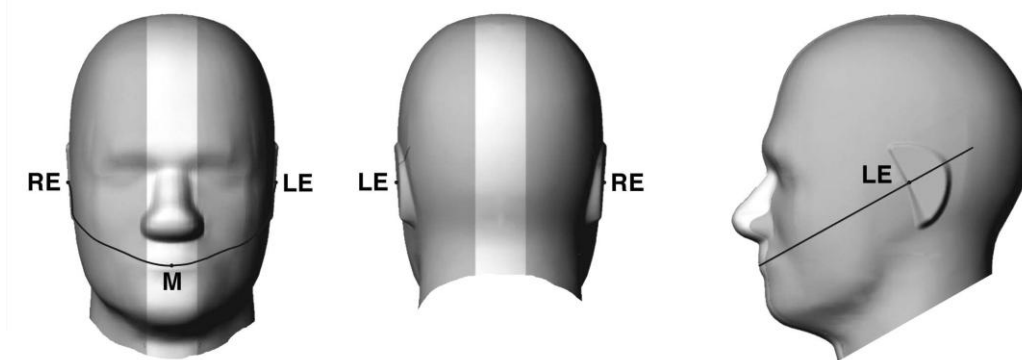


Fig 12.1.1 Front, back, and side views of SAM twin phantom

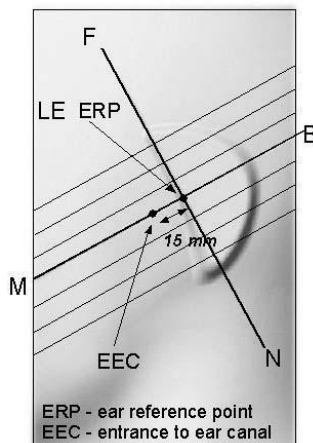


Fig 12.1.2 Close-up side view of phantom showing the ear region.

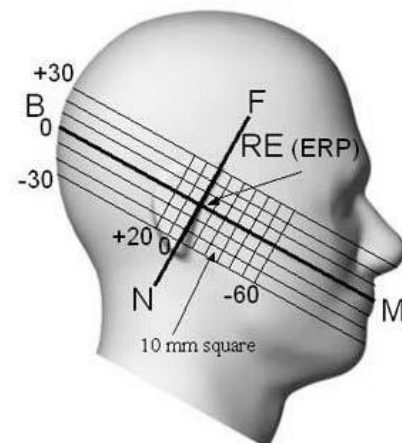


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

13.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 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 handset. 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.

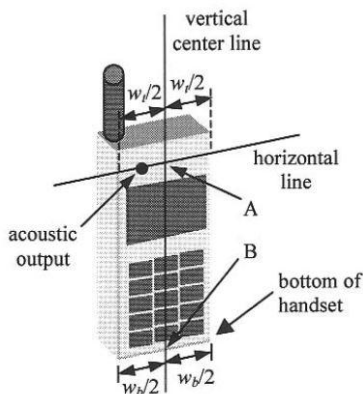


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

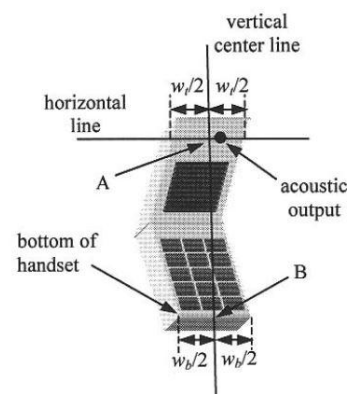


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

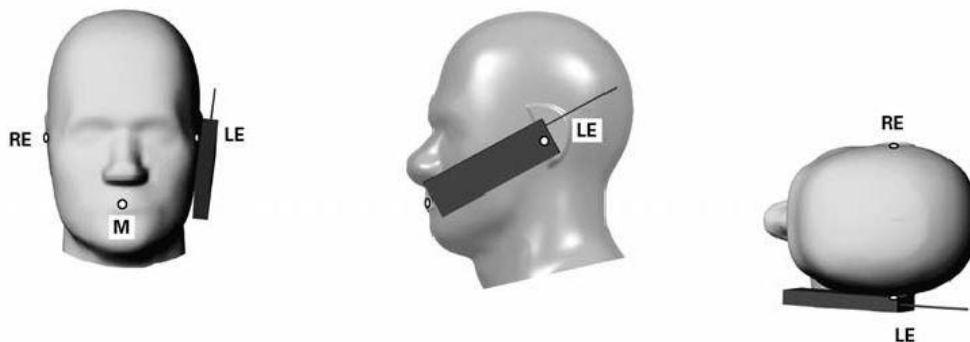


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

13.3 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

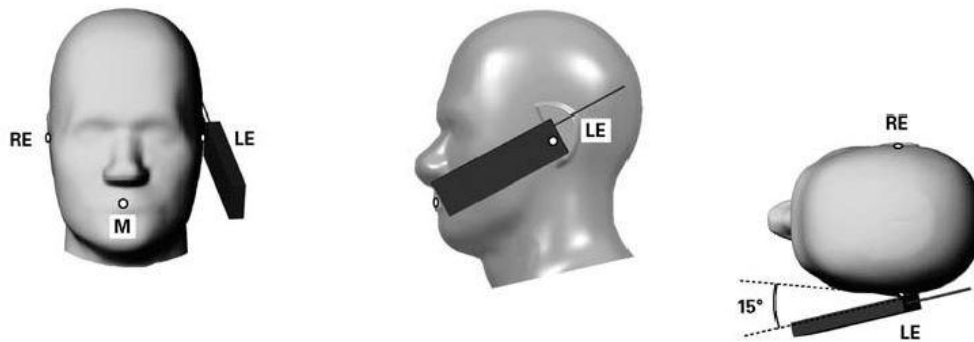


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 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 11.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

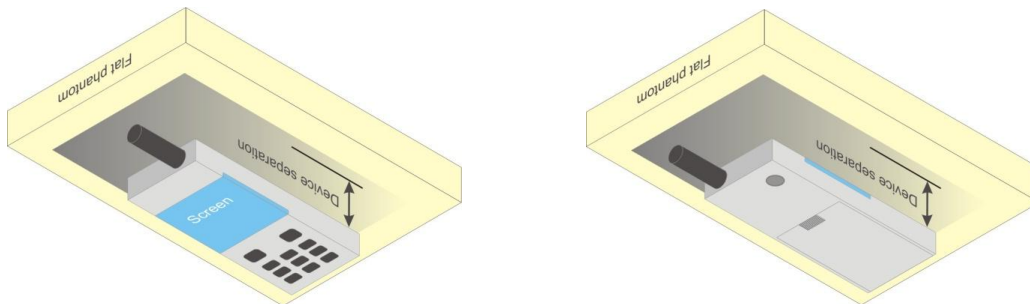


Fig 12.4 Body Worn Position

13.5 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 can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and 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.

13.6 Wireless Router

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

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

13.7 Miscellaneous Testing Considerations

- Evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020.
- Per procedures of KDB Pubs. 447498 and 248227, and applicable product-specific procedures among KDB Pubs. 648474 (handsets/phablets).
- Where supported by the test system, also report estimated absorbed (epithelial) power density (for reference purposes only, not specifically for compliance) and estimated incident PD, derived from measured SAR.
- In addition, for the highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane)
 - Adjust measured results per amount that measurement uncertainty exceeds 30 % (see e.g. IEC 62479:2010)

14. 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 $\leq 1/4$ 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 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} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

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

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

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

Setup Configuration

HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - 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
 - Set Cell Power = -86 dBm
 - Set Channel Type = 12.2k + HSPA
 - Set UE Target Power
 - Power Ctrl Mode= Alternating bits
 - Set and observe the E-TFCI
 - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- 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} (Note 1)	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	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

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

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

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

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C 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: $\beta_c/\beta_d=2/15$
 - b). Subtest 2: $\beta_c/\beta_d=12/15$
 - c). Subtest 3: $\beta_c/\beta_d=15/8$
 - d). Subtest 4: $\beta_c/\beta_d=15/4$
 - 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	Processes	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.		

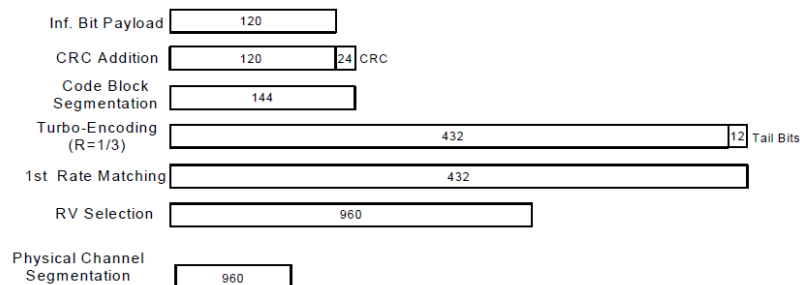


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

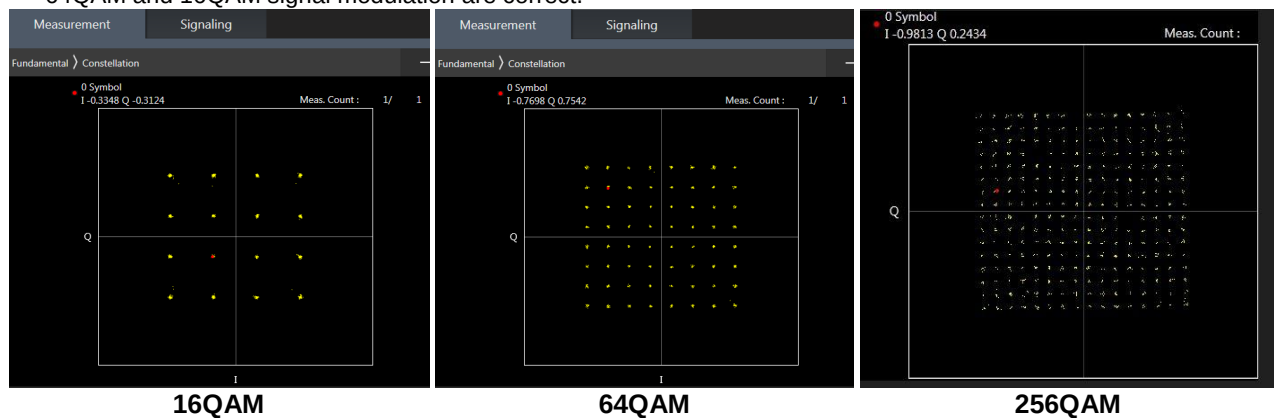
<WCDMA Conducted Power>**General Note:**

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 $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA 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 $\frac{1}{4}$ 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 MT8821C 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 $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 /B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B2 / B4 / B5 / B17 / B38/B42(3550MHz~3600 MHz)/ B43 SAR test was covered by B25 / B66 / B26 / B12 / B41/ B48; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to May 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.



<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.

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

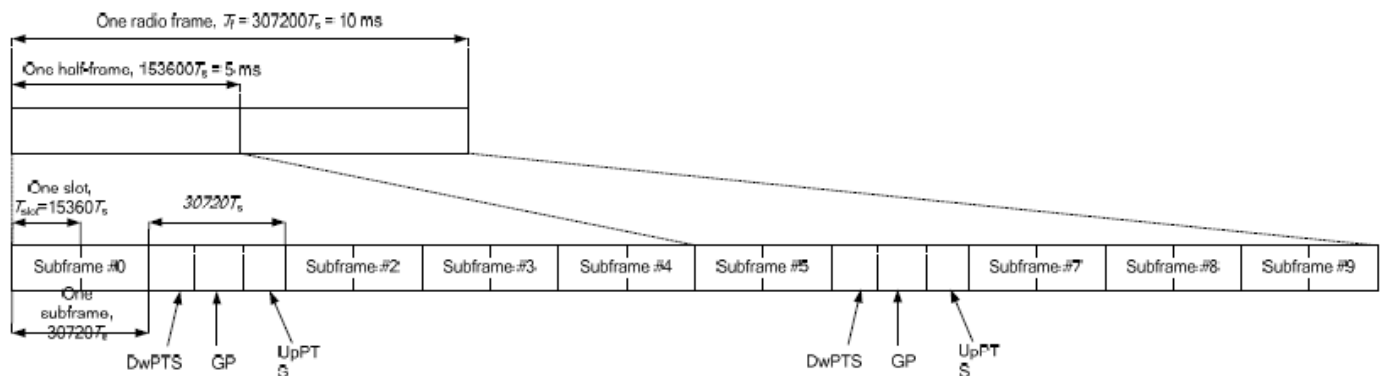


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$	-	-
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-	-	-

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

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

The highest duty factor is resulted from:

For LTE TDD Power class 2

- Uplink-downlink configuration: 1. In a half-frame consisted of 5 subframes, uplink operation is in 2 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(2+0.167)/5 = 43.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(2+0.143)/5 = 42.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $43.3\%/42.9\% = 1.009$ 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.

For LTE TDD Power class 3

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- 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.

The device can adjust uplink/downlink configuration automatically according to the transmitting power class level, as follows:

LTE TDD Band	Power Class level	support uplink/downlink configuration
LTE Band 41	> 23	1,2,3,4,5
	=23	0,1,2,3,4,5,6
	< 23	0,1,2,3,4,5,6

<LTE Carrier Aggregation>

The detailed LTE Carrier Aggregation conducted power table can refer to Appendix F.

General Note:

1. Per Oct. 2024 TCB workshop, the downlink (DL) pertains to receiver functionality, thus it is not related to RF exposure compliance limits related to cumulative effects of different transmitters.
2. Per Oct. 2024 TCB workshop, equipment authorization applications shall refer to the worst-case UL powers resulting from all the possible modes of operations. Accordingly, CA-DL cases do not need to be analyzed separately, unless pertinent to establishing UL power setting.
3. Per Oct. 2024 TCB workshop, Manufacturer declares that TX power measurement for multiple DL CA configurations is deemed not required as the DL CA has no impact on the TX power according to preliminary scan. TX power measured in LTE standalone operation represents the worst case.
4. This device supports LTE carrier aggregation in the downlink. All 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.

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation			
Intra-band	Main Antenna Tx	ASDiv-1 Tx	ASDiv-2 Tx	ASDiv-3 Tx
CA_2C	Ant2	Ant6	Ant1	Ant0
CA_5B	Ant0	Ant1	/	/
CA_7C	Ant2	Ant6	Ant1	Ant0
CA_38C	Ant2	Ant6	Ant1	Ant0
CA_41C	Ant2	Ant6	Ant1	Ant0
CA_42C	Ant7	Ant5	/	/
CA_48C	Ant7	Ant5	/	/

<Intra-band>
General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B2/5/7/38/41/42/48 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iii. Additional SAR measurement for LTE UL CA with 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 CA Configuration>

LTE Uplink CA	PCC ANT	SCC ANT
Inter-band		
CA_2A-4A	Ant2	Ant1
	Ant1	Ant2
	Ant1	Ant6
	Ant0	Ant2
	Ant0	Ant6
	Ant6	Ant0
	Ant6	Ant1
CA_2A-7A	Ant2	Ant1
	Ant1	Ant2
	Ant2	Ant0
	Ant1	Ant6
	Ant0	Ant2
	Ant0	Ant6
	Ant6	Ant0
CA_2A-66A	Ant6	Ant1
	Ant2	Ant1
	Ant1	Ant2
	Ant2	Ant0
	Ant1	Ant6
	Ant0	Ant2
	Ant0	Ant6
CA_2A-5A	Ant6	Ant0
	Ant6	Ant1
	Ant0	Ant1
	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
CA_2A-12A	Ant6	Ant1
	Ant6	Ant0
	Ant1	Ant0
	Ant2	Ant0
	Ant2	Ant1
CA_2A-13A	Ant0	Ant1
	Ant6	Ant0
	Ant1	Ant0
CA_2A-71A	Ant2	Ant0
	Ant2	Ant1
	Ant1	Ant0
	Ant6	Ant1
	Ant6	Ant0
CA_4A-7A	Ant0	Ant1
	Ant2	Ant1
	Ant1	Ant2
	Ant2	Ant0
	Ant1	Ant6
	Ant0	Ant2
	Ant0	Ant6
	Ant6	Ant0
	Ant6	Ant1

CA_4A-5A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
	Ant6	Ant1
	Ant6	Ant0
	Ant0	Ant1
CA_4A-13A	Ant2	Ant0
	Ant1	Ant0
	Ant6	Ant0
CA_4A-71A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
	Ant6	Ant1
	Ant6	Ant0
	Ant0	Ant1
CA_5A-66A	Ant1	Ant2
	Ant0	Ant2
	Ant1	Ant6
	Ant0	Ant6
	Ant1	Ant0
	Ant0	Ant1
CA_13A-66A	Ant0	Ant2
	Ant0	Ant6
	Ant0	Ant1
CA_7A-12A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
	Ant0	Ant1
CA_7A-26A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
	Ant0	Ant1
CA_25A-26A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
	Ant0	Ant1
CA_66A-71A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
	Ant0	Ant1
CA_7A-5A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
	Ant0	Ant1

General Note:

1. The single carrier of inter band CA uplink power level is the same as Non-CA standalone LTE power level.
2. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window. To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.
3. For LTE inter-band CA mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure between two LTE bands. Smart Transmit algorithm controls the total RF exposure base on LTE inter CA bands to not exceed FCC limit.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n25/n26/n38/n41/n66/n70/n71/n77/n78 is NSA mode.
2. 5G NR n2/n5/n7/n25/n26/n38/n41/n66/n71/n77/n78 is SA mode.
3. 5G NR n89 is only operated in band combination for SUL mode.
4. 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 QPSK and the reported SAR for the DFT-s QPSK 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 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
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. 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
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /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
5. For 5G NR n41/n77/n78 HPUE, 5G NR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
6. 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.
7. 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.
8. 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.
9. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
10. For NR inter-band CA mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure between two NR bands. Smart Transmit algorithm controls the total RF exposure base on NR inter band ULCA bands to not exceed FCC limit.
11. 5G NR n2/n7/n41/n66/n77/n78 supports UL MIMO. If UL MIMO antenna operating on different antenna groups, therefore TAS validation is not required. And if MIMO antennas are in the same AGs, the detail analysis results please referred to section 16.

<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	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

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

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

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

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

<EN-DC combination>

ENDC mode	LTE ANT	NR ANT
DC_2A_n5A	Ant2	Ant1
	Ant2	Ant0
	Ant6	Ant1
	Ant6	Ant0
	Ant1	Ant0
	Ant0	Ant1
DC_2A_n7A	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
	Ant6	Ant2
	Ant0	Ant2
DC_2A_n66A	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
	Ant6	Ant2
	Ant0	Ant2
DC_2A_n38A	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
	Ant6	Ant2
	Ant0	Ant2
DC_2A_n41A	Ant1	Ant2
	Ant1	Ant6
	Ant1	Ant0
	Ant2	Ant1
	Ant2	Ant0
	Ant2	Ant6



	Ant6	Ant2
DC_2A_n71A	Ant2	Ant1
	Ant2	Ant0
	Ant6	Ant1
	Ant6	Ant0
	Ant1	Ant0
	Ant0	Ant1
	Ant2	Ant7
DC_2A_n77A	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant5
	Ant1	Ant7
	Ant1	Ant8
	Ant1	Ant4
DC_2A_n78A	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant5
	Ant1	Ant7
	Ant1	Ant8
DC_4A_n2A	Ant1	Ant4
	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
DC_4A_n5A	Ant6	Ant2
	Ant0	Ant2
	Ant2	Ant1
	Ant2	Ant0
	Ant6	Ant1
	Ant6	Ant0
DC_4A_n7A	Ant1	Ant0
	Ant0	Ant1
	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
DC_4A_n38A	Ant6	Ant2
	Ant0	Ant2
	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
DC_4A_n41A	Ant6	Ant2
	Ant0	Ant2
	Ant1	Ant2
	Ant1	Ant6
	Ant1	Ant0
	Ant2	Ant1
	Ant2	Ant0
	Ant2	Ant6
	Ant6	Ant1
DC_4A_n78A	Ant6	Ant2
	Ant6	Ant0
	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant5



	Ant1	Ant7
	Ant1	Ant8
	Ant1	Ant4
DC_5A_n2A	Ant1	Ant2
	Ant0	Ant2
	Ant0	Ant1
DC_5A_n7A	Ant1	Ant2
	Ant0	Ant2
	Ant0	Ant1
DC_5A_n38A	Ant1	Ant2
	Ant0	Ant2
	Ant0	Ant1
DC_5A_n41A	Ant1	Ant2
	Ant1	Ant6
	Ant1	Ant0
	Ant0	Ant2
	Ant0	Ant1
	Ant0	Ant6
DC_5A_n66A	Ant1	Ant2
	Ant0	Ant2
	Ant0	Ant1
DC_5A_n77A	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8
	Ant0	Ant4
	Ant1	Ant5
	Ant1	Ant7
	Ant1	Ant8
	Ant1	Ant4
DC_5A_n78A	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8
	Ant0	Ant4
	Ant1	Ant5
	Ant1	Ant7
	Ant1	Ant8
	Ant1	Ant4
DC_7A_n2A	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
	Ant6	Ant2
	Ant0	Ant2
DC_7A_n5A	Ant2	Ant1
	Ant2	Ant0
	Ant6	Ant1
	Ant6	Ant0
	Ant1	Ant0
	Ant0	Ant1
DC_7A_n25A	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
	Ant6	Ant2
	Ant0	Ant2
DC_7A_n66A	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
	Ant6	Ant2
	Ant0	Ant2



DC_7A_n71A	Ant2	Ant1
	Ant2	Ant0
	Ant6	Ant1
	Ant6	Ant0
	Ant1	Ant0
DC_7A_n77A	Ant0	Ant1
	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant5
	Ant1	Ant7
DC_7A_n78A	Ant1	Ant8
	Ant1	Ant4
	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant5
DC_12A_n2A	Ant1	Ant7
	Ant1	Ant8
	Ant1	Ant4
	Ant1	Ant5
DC_12A_n7A	Ant1	Ant2
	Ant0	Ant2
	Ant0	Ant1
DC_12A_n25A	Ant0	Ant2
	Ant0	Ant2
	Ant0	Ant1
DC_12A_n38A	Ant1	Ant2
	Ant1	Ant6
	Ant1	Ant0
	Ant0	Ant2
	Ant0	Ant1
DC_12A_n41A	Ant0	Ant6
	Ant1	Ant2
	Ant1	Ant6
	Ant1	Ant0
	Ant0	Ant2
DC_12A_n66A	Ant0	Ant1
	Ant0	Ant2
	Ant1	Ant2
DC_12A_n77A	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8
	Ant0	Ant4
	Ant1	Ant5
	Ant1	Ant7
	Ant1	Ant8
DC_12A_n78A	Ant1	Ant4
	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8



	Ant1	Ant5
	Ant1	Ant7
	Ant1	Ant8
	Ant1	Ant4
DC_13A_n2A	Ant0	Ant2
	Ant0	Ant1
DC_13A_n66A	Ant0	Ant2
	Ant0	Ant1
DC_13A_n77A	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8
	Ant0	Ant4
DC_13A_n78A	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8
	Ant0	Ant4
DC_25A_n41A	Ant1	Ant2
	Ant1	Ant6
	Ant1	Ant0
	Ant2	Ant1
	Ant2	Ant0
	Ant2	Ant6
DC_25A_n77A	Ant6	Ant2
	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant5
	Ant1	Ant7
	Ant1	Ant8
DC_25A_n78A	Ant1	Ant4
	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant5
	Ant1	Ant7
DC_26A_n25A	Ant1	Ant8
	Ant1	Ant4
	Ant1	Ant2
	Ant0	Ant2
DC_38A_n78A	Ant0	Ant1
	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant5
	Ant1	Ant7
	Ant1	Ant8
	Ant1	Ant4
DC_41A_n77A	Ant2	Ant7
	Ant2	Ant8
	Ant1	Ant5
	Ant1	Ant4
	Ant6	Ant7
	Ant6	Ant8
	Ant0	Ant5
	Ant0	Ant4



DC_41A_n78A	Ant2	Ant7
	Ant2	Ant8
	Ant1	Ant5
	Ant1	Ant4
	Ant6	Ant7
	Ant6	Ant8
	Ant0	Ant5
	Ant0	Ant4
DC_48A_n2A	Ant7	Ant2
	Ant5	Ant1
DC_48A_n5A	Ant7	Ant0
	Ant5	Ant1
DC_48A_n66A	Ant7	Ant2
	Ant5	Ant2
	Ant7	Ant1
	Ant5	Ant1
DC_48A_n71A	Ant7	Ant0
	Ant5	Ant1
	Ant7	Ant0
	Ant5	Ant1
DC_66A_n2A	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
	Ant6	Ant2
	Ant0	Ant2
DC_66A_n5A	Ant2	Ant1
	Ant2	Ant0
	Ant6	Ant1
	Ant6	Ant0
	Ant1	Ant0
	Ant0	Ant1
DC_66A_n7A	Ant2	Ant1
	Ant1	Ant2
	Ant0	Ant2
DC_66A_n25A	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
	Ant0	Ant2
DC_66A_n38A	Ant2	Ant1
	Ant1	Ant2
	Ant6	Ant1
	Ant0	Ant2
DC_66A_n41A	Ant1	Ant2
	Ant0	Ant6
DC_66A_n71A	Ant2	Ant1
	Ant2	Ant0
	Ant6	Ant1
	Ant6	Ant0
	Ant1	Ant0
	Ant0	Ant1
DC_66A_n77A	Ant2	Ant7
	Ant2	Ant8
	Ant1	Ant5
	Ant1	Ant4
DC_66A_n78A	Ant2	Ant7
	Ant2	Ant8
	Ant1	Ant5
	Ant1	Ant4



DC_71A_n2A	Ant1	Ant2
	Ant0	Ant2
	Ant0	Ant1
DC_71A_n41A	Ant1	Ant2
	Ant1	Ant6
	Ant1	Ant0
	Ant0	Ant2
DC_71A_n66A	Ant1	Ant2
	Ant0	Ant2
	Ant0	Ant1
DC_71A_n77A	Ant0	Ant7
	Ant0	Ant8
	Ant1	Ant5
	Ant1	Ant8
DC_71A_n78A	Ant0	Ant7
	Ant0	Ant8
	Ant1	Ant5
	Ant1	Ant8

Inter-Band CA Configuration:

CA mode	Antenna /	Antenna /
NR UL CA mode	NR ANT	NR ANT
CA_n2A-n5A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
CA_n2A-n71A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
CA_n2A-n7A	Ant2	Ant1
	Ant1	Ant2
CA_n2A-n66A	Ant2	Ant1
	Ant1	Ant2
CA_n2A-n71A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
CA_n2A-n77A	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
CA_n2A-n78A	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
CA_n5A-n25A	Ant1	Ant2
	Ant1	Ant2
	Ant0	Ant2
	Ant0	Ant1



CA_n5A-n66A	Ant1	Ant2
	Ant1	Ant2
	Ant0	Ant2
	Ant0	Ant1
CA_n5A-n78A	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8
	Ant0	Ant4
CA_n5A-n77A	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8
	Ant0	Ant4
CA_n7A-n25A	ANT2	Ant1
	ANT1	ANT2
CA_n7A-n77A	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
CA_n7A-n78A	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
CA_n25A-n41A	Ant1	Ant2
	Ant1	Ant6
	Ant1	Ant0
	Ant2	Ant1
	Ant2	Ant6
	Ant2	Ant0
CA_n25A-n66A	Ant2	Ant1
	Ant1	Ant2
CA_n25A-n71A	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0
CA_n25A-n78A	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
CA_n41A-n66A	Ant2	Ant1



	Ant6	Ant1
	Ant0	Ant1
	Ant1	Ant2
	Ant6	Ant2
	Ant0	Ant2
CA_n41A-n71A	Ant2	Ant1
	Ant6	Ant1
	Ant0	Ant1
	Ant2	Ant0
	Ant1	Ant0
CA_n38A-n78A	Ant6	Ant0
	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant7
	Ant1	Ant5
CA_n41A-n77A	Ant1	Ant8
	Ant1	Ant4
	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
	Ant6	Ant7
	Ant6	Ant5
	Ant6	Ant8
	Ant6	Ant4
CA_n41A-n78A	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8
	Ant0	Ant4
	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
	Ant6	Ant7
	Ant6	Ant5
CA_n66A-n7A	Ant6	Ant8
	Ant6	Ant4
	Ant0	Ant7
	Ant0	Ant5
CA_n66A-n71A	Ant0	Ant8
	Ant0	Ant4
	Ant2	Ant1
	Ant1	Ant2
	Ant2	Ant1
	Ant2	Ant0
	Ant1	Ant0

CA_n66A-n78A	Ant2	Ant7
	Ant2	Ant5
	Ant2	Ant8
	Ant2	Ant4
	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
CA_n71A-n77A	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8
	Ant0	Ant4
CA_n71A-n78A	Ant1	Ant7
	Ant1	Ant5
	Ant1	Ant8
	Ant1	Ant4
	Ant0	Ant7
	Ant0	Ant5
	Ant0	Ant8
	Ant0	Ant4

SUL combination:

SUL mode	NR ANT	NR ANT
CA_n78A-n89A	Ant7	Ant0
	Ant5	Ant0
	Ant8	Ant0
	Ant4	Ant0
	Ant7	Ant1
	Ant5	Ant1
	Ant8	Ant1
	Ant4	Ant1

UL MIMO combination:

ULMIMO mode	NR ANT	NR ANT
n2	Ant2	Ant1
n7	Ant2	Ant1
n41	Ant2	Ant1
	Ant6	Ant0
n66	Ant2	Ant1
n77	Ant7	Ant5
	Ant8	Ant4
n78	Ant7	Ant5
	Ant8	Ant4

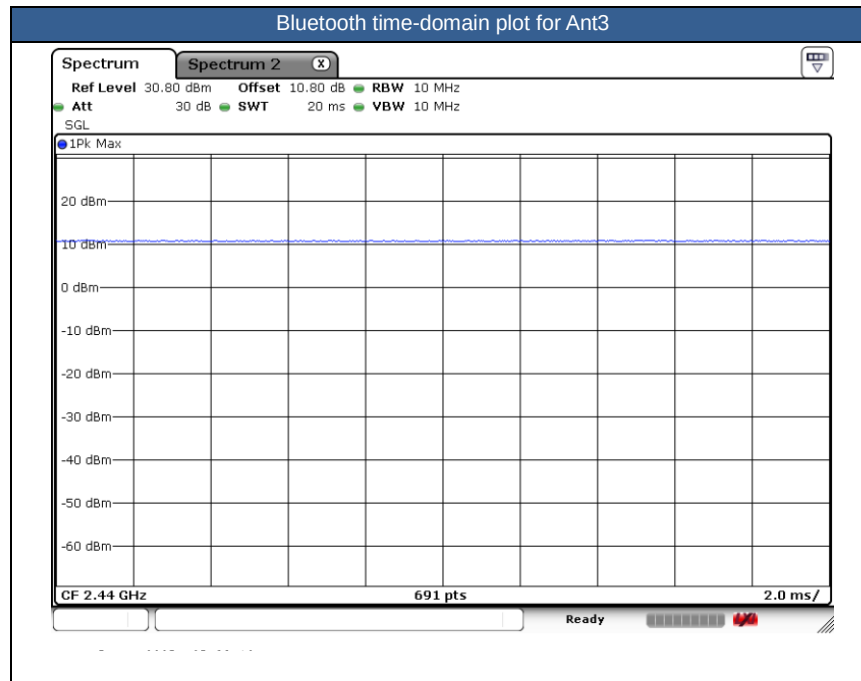
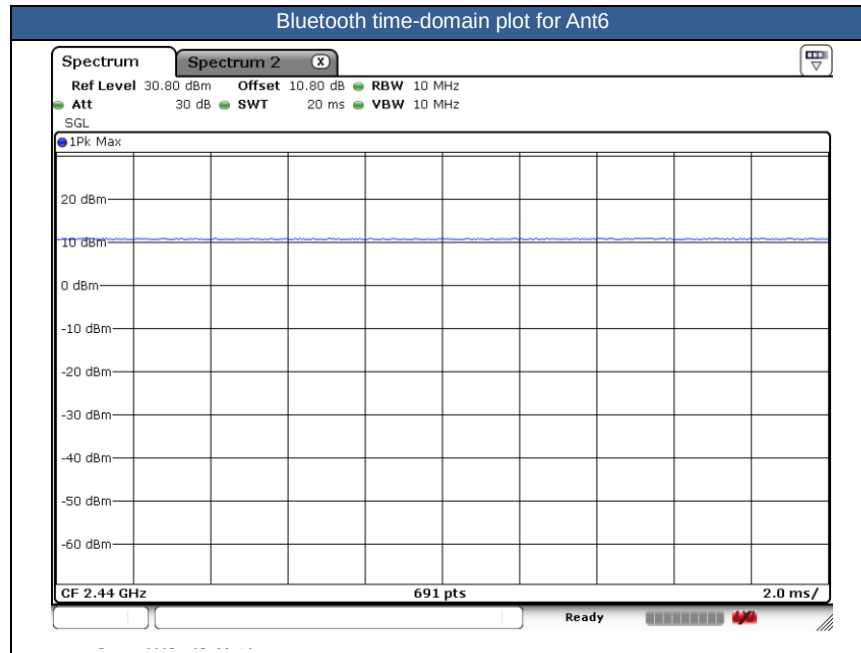
<WLAN Conducted Power>**General Note:**

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.
2. 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.
3. 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).
4. 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.
5. 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.
6. 802.11 ax/be supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.
7. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz/WLAN6GHz, 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 mode 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 two antennas respectively to calculate sum of the power for MIMO 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 are 100% for Ant6 and Ant3 as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 100%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.





15. Antenna Location

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

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN/Bluetooth 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 of power class 3, 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 (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
 - f. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = 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 ≥ 0.8 W/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 the power management, proximity sensor/receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
5. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
6. 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 GSM1900, WCDMA Band II/IV/V, LTE Band 2/4/7/25/38/41/66/42/43/48, 5G NR n2/n7/n25/n66/n38/n41/n70/n77/n78 and WLAN 2.4GHz/WLAN 5.2/5.8GHz/BT therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5/6GHz 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.
7. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
8. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
9. LTE B7/66 at ant0/1/2/6, LTE B25/2 at ant2/6, LTE B48 at ant5/7, and 5G NR n7 at ant1, 5G NR n41 at ant0/1, 5G NR n25/n66 at ant2, 5G NR n77/78 at ant4/5/7/8 support different PAs for same antennas. And some LTE/NR bands support PA (Reference Designator) only under ENDC& UL CA. 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 PA (Reference Designator), for RF exposure, after verification all PAs in a same position, so the worst-case PA was chosen to perform full SAR testing to ensure the RF exposure is compliance and another PA verified the worst case.

10. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
11. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.
12. For WLAN 6GHz doesn't support wireless router capability.
13. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors.
14. Per October 2020 TCB Workshop Interim procedures, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02.
15. Absorbed power density (APD) using a 4cm^2 averaging area is reported based on SAR measurements.
16. Per October 2022 TCB Workshop, IPD and SAR test frequencies for 5.85-7.125 GHz portable devices, continue with adapt and apply conducted power-based channel picks and test reduction procedures of KDB 248227 (v02r02), also in case of 320 MHz (pre-802.11be).
17. For testing the WLAN 6GHz of this DUT, the selection of test channels was based on FCC guidance, with five channels selected across the entire WLAN 6GHz Bands.

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. Both primary and secondary modes must be in the same frequency band. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, 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 $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / 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 $\frac{1}{4}$ 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 $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping

channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

7. LTE B2 / B4 / B5 / B17 / B38 /B42(3550MHz~3600 MHz)/ B43 SAR test was covered by B25 / B66 / B26 / B12 / B41/ B48; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

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 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.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. 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.
 - d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - f. For 5G FR1 n2/n5/n7/n25/n26/n66/n38/n41/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth 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. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.

Power Density General Notes:

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements.
3. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
4. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
6. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
7. Per April 2021 TCB Workshop and KDB 388624 D02v18r08, For the highest SAR test configurations also measure incident PD (total) using power-density reconstruction method in 2 mm closest measurement plane.
8. Per October 2020 TCB Workshop, PTP-PR algorithm was used during psPD measurement and calculations.
9. Since this device is considered a phablet and there is no different PD limit on different exposure conditions, therefore select highest phablet SAR at 0 mm test distance and configurations evaluate power density. Since there is no different PD limit on different exposure conditions, therefore the PD test was performed of a 2mm separation between Probe sensor and EUT surface to cover Head exposure conditions (Front) at head power level and other exposure conditions at body power level of Phone respectively
10. The measurement procedure consists of measuring the PDinc at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPDn fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

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

DSI status description:

The device has the following DSI state which used at different exposure condition.

This WWAN/WLAN/BT bands enabled with Qualcomm Smart Transmit feature which located at chapter 5. The default power is Pmax power, When Plimit power higher than Pmax power, the output power will be limited at Pmax, and so the SAR will use Pmax power to do the testing.

Exposure Condition	Main PA	PA (Reference Designator)	Trigger Conditions
Head SAR	DSI 2	DSI 2-1	Earpiece On
Body worn SAR	DSI 3	DSI 3-1	Sensor On
Hotspot SAR	DSI 7	DSI 7-1	Hotspot On
Extremity SAR	DSI 6	DSI 6-1	Sensor On
Body Worn / Extremity Sensor Off	DSI 4	DSI 4-1	Sensor Off



16.1 Head SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 3 Tx slots	Right Cheek	0mm	Ant 0	DSI2	189	836.4	1	28.60	29.50	1.23	0.13	0.136	0.167
	GSM850	GPRS 3 Tx slots	Right Tilted	0mm	Ant 0	DSI2	189	836.4	1	28.60	29.50	1.23	0.03	0.066	0.081
	GSM850	GPRS 3 Tx slots	Left Cheek	0mm	Ant 0	DSI2	189	836.4	1	28.60	29.50	1.23	0.08	0.233	0.287
	GSM850	GPRS 3 Tx slots	Left Tilted	0mm	Ant 0	DSI2	189	836.4	1	28.60	29.50	1.23	-0.11	0.131	0.161
01	GSM850	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	DSI2	189	836.4	1	26.55	27.50	1.245	0.02	1.020	1.270
	GSM850	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	DSI2	128	824.2	1	26.48	27.50	1.265	-0.17	0.877	1.109
	GSM850	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	DSI2	251	848.8	1	26.49	27.50	1.262	0.09	0.964	1.217
	GSM850	GPRS 4 Tx slots	Right Tilted	0mm	Ant 1	DSI2	189	836.4	1	26.55	27.50	1.245	-0.19	0.964	1.200
	GSM850	GPRS 4 Tx slots	Right Tilted	0mm	Ant 1	DSI2	128	824.2	1	26.48	27.50	1.265	0.14	0.885	1.119
	GSM850	GPRS 4 Tx slots	Right Tilted	0mm	Ant 1	DSI2	251	848.8	1	26.49	27.50	1.262	-0.10	0.996	1.257
	GSM850	GPRS 4 Tx slots	Left Cheek	0mm	Ant 1	DSI2	189	836.4	1	26.55	27.50	1.245	0.13	0.508	0.632
	GSM850	GPRS 4 Tx slots	Left Tilted	0mm	Ant 1	DSI2	189	836.4	1	26.55	27.50	1.245	-0.08	0.483	0.601
	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	DSI2	661	1880	1	19.49	20.50	1.262	-0.08	0.950	1.199
	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	DSI2	512	1850.2	1	19.43	20.50	1.279	0.08	0.794	1.015
02	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	DSI2	810	1909.8	1	19.45	20.50	1.274	0.01	0.998	1.271
	GSM1900	GPRS 4 Tx slots	Right Tilted	0mm	Ant 1	DSI2	661	1880	1	19.49	20.50	1.262	-0.04	0.786	0.991
	GSM1900	GPRS 4 Tx slots	Right Tilted	0mm	Ant 1	DSI2	512	1850.2	1	19.43	20.50	1.279	-0.16	0.633	0.810
	GSM1900	GPRS 4 Tx slots	Right Tilted	0mm	Ant 1	DSI2	810	1909.8	1	19.45	20.50	1.274	-0.10	0.810	1.031
	GSM1900	GPRS 4 Tx slots	Left Cheek	0mm	Ant 1	DSI2	661	1880	1	19.49	20.50	1.262	-0.08	0.251	0.316
	GSM1900	GPRS 4 Tx slots	Left Tilted	0mm	Ant 1	DSI2	661	1880	1	19.49	20.50	1.262	0.17	0.304	0.384
	GSM1900	GPRS 2 Tx slots	Right Cheek	0mm	Ant 2	DSI2	661	1880	1	26.24	27.50	1.337	0.03	0.087	0.116
	GSM1900	GPRS 2 Tx slots	Right Tilted	0mm	Ant 2	DSI2	661	1880	1	26.24	27.50	1.337	-0.01	0.066	0.088
	GSM1900	GPRS 2 Tx slots	Left Cheek	0mm	Ant 2	DSI2	661	1880	1	26.24	27.50	1.337	0.17	0.069	0.092
	GSM1900	GPRS 2 Tx slots	Left Tilted	0mm	Ant 2	DSI2	661	1880	1	26.24	27.50	1.337	0.02	0.059	0.079

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
03	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	9400	1880	1	16.59	17.50	1.233	-0.11	1.050	1.295
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	9262	1852.4	1	16.54	17.50	1.247	-0.05	1.020	1.272
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	9538	1907.6	1	16.53	17.50	1.25	-0.16	0.885	1.107
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2	9400	1880	1	16.59	17.50	1.233	-0.08	0.846	1.043
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2	9262	1852.4	1	16.54	17.50	1.247	-0.08	0.820	1.022
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2	9538	1907.6	1	16.53	17.50	1.25	0.10	0.727	0.909
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI2	9400	1880	1	16.59	17.50	1.233	0.14	0.282	0.348
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI2	9400	1880	1	16.59	17.50	1.233	-0.09	0.327	0.403
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	9400	1880	2	16.59	17.50	1.233	0.06	0.985	1.215
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	9400	1880	Cover	16.59	17.50	1.233	0.01	0.946	1.166
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI2	9400	1880	1	22.75	24.00	1.334	-0.01	0.119	0.159
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI2	9400	1880	1	22.75	24.00	1.334	-0.16	0.073	0.097
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI2	9400	1880	1	22.75	24.00	1.334	0.06	0.102	0.136
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI2	9400	1880	1	22.75	24.00	1.334	0.09	0.091	0.121
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	1413	1732.6	1	17.16	18.00	1.213	0.06	1.040	1.262
04	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	1312	1712.4	1	17.15	18.00	1.216	-0.01	1.060	1.289
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	1513	1752.6	1	17.13	18.00	1.222	0.19	0.991	1.211
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2	1413	1732.6	1	17.16	18.00	1.213	0.02	0.834	1.011
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2	1312	1712.4	1	17.15	18.00	1.216	0.09	0.870	1.058
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2	1513	1752.6	1	17.13	18.00	1.222	-0.07	0.791	0.966
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI2	1413	1732.6	1	17.16	18.00	1.213	-0.17	0.249	0.302
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI2	1413	1732.6	1	17.16	18.00	1.213	0.06	0.278	0.337
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	1312	1712.4	2	17.15	18.00	1.216	0.06	0.879	1.069
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	1312	1712.4	Cover	17.15	18.00	1.216	0.03	0.966	1.175
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI2	1413	1732.6	1	22.72	24.00	1.343	-0.10	0.119	0.160
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI2	1413	1732.6	1	22.72	24.00	1.343	0.01	0.094	0.126
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI2	1413	1732.6	1	22.72	24.00	1.343	0.03	0.120	0.161
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI2	1413	1732.6	1	22.72	24.00	1.343	-0.11	0.114	0.153
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI2	4182	836.4	1	23.10	24.00	1.23	-0.17	0.147	0.181
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI2	4182	836.4	1	23.10	24.00	1.23	0.11	0.106	0.130
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI2	4182	836.4	1	23.10	24.00	1.23	0.07	0.249	0.306
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI2	4182	836.4	1	23.10	24.00	1.23	0.01	0.118	0.145
05	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	4182	836.4	1	23.22	24.00	1.197	0.01	0.973	1.165
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	4132	826.4	1	23.15	24.00	1.216	0.15	0.905	1.100
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2	4233	846.6	1	23.18	24.00	1.208	0.13	0.939	1.134
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2	4182	836.4	1	23.22	24.00	1.197	0.19	0.932	1.116



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	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2	4132	826.4	1	23.15	24.00	1.216	0.03	0.857	1.043
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2	4233	846.6	1	23.18	24.00	1.208	0.01	0.925	1.118
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI2	4182	836.4	1	23.22	24.00	1.197	0.16	0.471	0.564
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI2	4182	836.4	1	23.22	24.00	1.197	-0.17	0.451	0.540

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI2	21100	2535	1	22.29	23.00	1.178			0.10	0.056	0.066
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI2	21100	2535	1	21.23	22.00	1.194			0.17	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI2	21100	2535	1	22.29	23.00	1.178			0.16	0.047	0.055
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI2	21100	2535	1	21.23	22.00	1.194			-0.14	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	21100	2535	1	22.29	23.00	1.178			0.09	0.083	0.098
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI2	21100	2535	1	21.23	22.00	1.194			0.02	0.050	0.060
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI2	21100	2535	1	22.29	23.00	1.178			0.16	0.030	0.035
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI2	21100	2535	1	21.23	22.00	1.194			0.15	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	21100+20902	2535+2515.2	1	22.13	23.00	1.222			0.03	0.077	0.094
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	21100	2535	1	17.91	18.60	1.172			0.07	0.978	1.146
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	20850	2510	1	17.88	18.60	1.18			0.03	0.936	1.105
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	21350	2560	1	17.86	18.60	1.186			0.01	1.070	1.269
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2	21100	2535	1	17.86	18.60	1.186			0.16	0.627	0.744
	LTE Band 7	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	DSI2	21100	2535	1	17.76	18.60	1.213			0.19	0.631	0.765
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	21100	2535	1	17.91	18.60	1.172			-0.06	0.818	0.959
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	20850	2510	1	17.88	18.60	1.18			-0.07	0.809	0.954
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	21350	2560	1	17.86	18.60	1.186			0.13	0.853	1.012
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI2	21100	2535	1	17.86	18.60	1.186			-0.02	0.525	0.623
	LTE Band 7	20M	QPSK	100	0	Right Tilted	0mm	Ant 1	DSI2	21100	2535	1	17.76	18.60	1.213			-0.11	0.525	0.637
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2	21100	2535	1	17.91	18.60	1.172			0.06	0.427	0.500
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI2	21100	2535	1	17.86	18.60	1.186			0.04	0.268	0.318
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2	21100	2535	1	17.91	18.60	1.172			0.05	0.560	0.657
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI2	21100	2535	1	17.86	18.60	1.186			0.01	0.357	0.423
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	21350+21152	2560+2540.2	1	17.46	18.60	1.3			0.06	0.912	1.186
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI2	21100	2535	1	22.91	24.00	1.285			-0.03	0.147	0.189
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI2	21100	2535	1	21.85	23.00	1.303			-0.16	0.107	0.139
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI2	21100	2535	1	22.91	24.00	1.285			-0.13	0.066	0.085
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI2	21100	2535	1	21.85	23.00	1.303			0.18	0.040	0.052
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI2	21100	2535	1	22.91	24.00	1.285			-0.11	0.117	0.150
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI2	21100	2535	1	21.85	23.00	1.303			-0.06	0.081	0.106
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI2	21100	2535	1	22.91	24.00	1.285			0.13	0.102	0.131
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI2	21100	2535	1	21.85	23.00	1.303			-0.08	0.067	0.087
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI2	21100+20902	2535+2515.2	1	22.33	24.00	1.469			0.01	0.105	0.154
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 6	DSI2	21100	2535	1	20.83	21.80	1.25			-0.00	0.577	0.722
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 6	DSI2	21100	2535	1	19.88	21.00	1.294			0.14	0.366	0.473
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 6	DSI2	21100	2535	1	20.83	21.80	1.25			0.06	0.142	0.178
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 6	DSI2	21100	2535	1	19.88	21.00	1.294			0.06	0.092	0.119
06	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	21100	2535	1	20.83	21.80	1.25			0.07	1.020	1.275
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	20850	2510	1	20.74	21.80	1.276			-0.10	0.996	1.271
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	21350	2560	1	20.77	21.80	1.268			0.09	0.957	1.214
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	DSI2	21100	2535	1	19.88	21.00	1.294			0.02	0.649	0.840
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	DSI2	20850	2510	1	19.73	21.00	1.34			0.08	0.647	0.867
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	DSI2	21350	2560	1	19.78	21.00	1.324			0.09	0.617	0.818
	LTE Band 7	20M	QPSK	100	0	Left Cheek	0mm	Ant 6	DSI2	21100	2535	1	19.78	21.00	1.324			-0.01	0.644	0.853
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	DSI2	21100	2535	1	20.83	21.80	1.25			0.16	0.340	0.425
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	DSI2	21100	2535	1	19.88	21.00	1.294			0.01	0.221	0.286
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	21100+20902	2535+2515.2	1	20.75	21.80	1.274			0.06	0.911	1.161
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	21100	2535	2	20.83	21.80	1.25			0.06	0.866	1.083
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	21100	2535	Cover	20.83	21.80	1.25			0.01	0.978	1.222
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI2	23095	707.5	1	22.30	24.00	1.479			0.08	0.093	0.138
	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	DSI2	23095	707.5	1	21.28	23.00	1.486			0.02	0.055	0.082
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI2	23095	707.5	1	22.30	24.00	1.479			-0.07	0.049	0.072
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	DSI2	23095	707.5	1	21.28	23.00	1.486			0.07	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	23095	707.5	1	22.30	24.00	1.479			-0.05	0.118	0.175
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	DSI2	23095	707.5	1	21.28	23.00	1.486			0.10	0.078	0.116
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI2	23095	707.5	1	22.30	24.00	1.479			0.07	0.065	0.096
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	DSI2	23095	707.5	1	21.28	23.00	1.486			0.11	0.001	0.001
07	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	23095	707.5	1	22.78	24.00	1.324			-0.03	0.717	0.949
	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI2	23095	707.5	1	21.85	23.00	1.303			0.18	0.448	0.583
	LTE Band 12	10M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2	23095	707.5	1	21.68	23.00	1.355			-0.07	0.439	0.595
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	23095	707.5	1	22.78	24.00	1.324			-0.06	0.637	0.843
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI2	23095	707.5	1	21.85	23.00	1.303			-0.16	0.393	0.512



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	LTE Band 12	10M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI2	23095	707.5	1	21.68	23.00	1.355			-0.09	0.389	0.527
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2	23095	707.5	1	22.78	24.00	1.324			-0.15	0.298	0.395
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI2	23095	707.5	1	21.85	23.00	1.303			-0.09	0.184	0.240
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2	23095	707.5	1	22.78	24.00	1.324			-0.02	0.281	0.372
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI2	23095	707.5	1	21.85	23.00	1.303			0.13	0.175	0.228
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	23095	707.5	2	22.78	24.00	1.324			0.06	0.548	0.726
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	23095	707.5	Cover	22.78	24.00	1.324			0.04	0.659	0.873
	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI2	23230	782	1	22.23	24.00	1.503			-0.04	0.081	0.122
	LTE Band 13	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	DSI2	23230	782	1	21.28	23.00	1.486			-0.17	0.053	0.079
	LTE Band 13	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI2	23230	782	1	22.23	24.00	1.503			0.04	0.051	0.077
	LTE Band 13	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	DSI2	23230	782	1	21.28	23.00	1.486			0.17	0.001	0.001
08	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	23230	782	1	22.23	24.00	1.503			-0.01	0.140	0.210
	LTE Band 13	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	DSI2	23230	782	1	21.28	23.00	1.486			0.10	0.099	0.147
	LTE Band 13	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI2	23230	782	1	22.23	24.00	1.503			-0.06	0.074	0.111
	LTE Band 13	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	DSI2	23230	782	1	21.28	23.00	1.486			-0.16	0.049	0.074
	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	23230	782	2	22.23	24.00	1.503			0.06	0.104	0.156
	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	23230	782	Cover	22.23	24.00	1.503			0.09	0.129	0.194
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI2	26340	1880	1	22.05	23.00	1.245			0.16	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI2	26340	1880	1	20.92	22.00	1.282			0.07	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI2	26340	1880	1	22.05	23.00	1.245			0.07	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI2	26340	1880	1	20.92	22.00	1.282			-0.18	0.001	0.001
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	26340	1880	1	22.05	23.00	1.245			0.05	0.073	0.091
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI2	26340	1880	1	20.92	22.00	1.282			0.01	0.043	0.055
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI2	26340	1880	1	22.05	23.00	1.245			0.15	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI2	26340	1880	1	20.92	22.00	1.282			0.02	0.001	0.001
	LTE Band 2	20M	QPSK	1	99	Left Cheek	0mm	Ant 0	DSI2	18900+19098	1880+1899.8	1	21.68	23.00	1.355			0.06	0.055	0.075
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	26340	1880	2	22.05	23.00	1.245			0.06	0.059	0.073
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	26340	1880	Cover	22.05	23.00	1.245			0.01	0.066	0.082
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	26340	1880	1	16.10	16.90	1.202			0.13	1.050	1.262
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	26140	1860	1	16.06	16.90	1.213			0.12	1.010	1.225
09	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	26590	1905	1	16.08	16.90	1.208			0.10	1.060	1.280
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2	26340	1880	1	16.07	16.90	1.211			0.10	0.624	0.755
	LTE Band 25	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	DSI2	26340	1880	1	16.05	16.90	1.216			-0.05	0.640	0.778
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	26340	1880	1	16.10	16.90	1.202			-0.16	0.815	0.980
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	26140	1860	1	16.06	16.90	1.213			-0.10	0.792	0.961
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	26590	1905	1	16.08	16.90	1.208			0.15	0.815	0.985
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI2	26340	1880	1	16.07	16.90	1.211			-0.05	0.486	0.588
	LTE Band 25	20M	QPSK	100	0	Right Tilted	0mm	Ant 1	DSI2	26340	1880	1	16.05	16.90	1.216			0.00	0.475	0.578
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2	26340	1880	1	16.10	16.90	1.202			-0.07	0.282	0.339
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI2	26340	1880	1	16.07	16.90	1.211			-0.06	0.172	0.209
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2	26340	1880	1	16.10	16.90	1.202			-0.03	0.323	0.388
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI2	26340	1880	1	16.07	16.90	1.211			-0.17	0.200	0.243
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	19100+18902	1900+1880.2	1	15.66	16.90	1.33			0.06	0.885	1.177
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI2	26340	1880	1	23.02	24.00	1.253			-0.12	0.153	0.192
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI2	26340	1880	1	22.11	23.00	1.227			-0.10	0.095	0.117
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI2	26340	1880	1	23.02	24.00	1.253			0.03	0.103	0.129
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI2	26340	1880	1	22.11	23.00	1.227			-0.16	0.063	0.077
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI2	26340	1880	1	23.02	24.00	1.253			-0.05	0.122	0.153
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI2	26340	1880	1	22.11	23.00	1.227			-0.07	0.077	0.094
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI2	26340	1880	1	23.02	24.00	1.253			-0.17	0.106	0.133
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI2	26340	1880	1	22.11	23.00	1.227			0.08	0.063	0.077
	LTE Band 2	20M	QPSK	1	99	Right Cheek	0mm	Ant 2	DSI2	18900+19098	1880+1899.8	1	22.46	24.00	1.426			0.01	0.116	0.165
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI2	26340	1880	2	23.02	24.00	1.253			0.06	0.136	0.170
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI2	26340	1880	Cover	23.02	24.00	1.253			0.03	0.142	0.178
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 6	DSI2	26340	1880	1	21.11	22.00	1.227			-0.15	0.520	0.638
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 6	DSI2	26340	1880	1	20.21	21.00	1.199			0.06	0.324	0.388
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 6	DSI2	26340	1880	1	21.11	22.00	1.227			-0.15	0.092	0.112
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 6	DSI2	26340	1880	1	20.21	21.00	1.199			-0.02	0.059	0.070
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	26340	1880	1	21.11	22.00	1.227			0.17	0.924	1.134
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	26140	1860	1	21.08	22.00	1.236			-0.09	0.961	1.188
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	26590	1905	1	21.05	22.00	1.245			0.05	0.891	1.109
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	DSI2	26340	1880	1	20.21	21.00	1.199			-0.01	0.564	0.676
	LTE Band 25	20M	QPSK	100	0	Left Cheek	0mm	Ant 6	DSI2	26340	1880	1	20.13	21.00	1.222			-0.05	0.567	0.692
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	DSI2	26340	1880	1	21.11	22.00	1.227			0.03	0.142	0.174
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	DSI2	26340	1880	1	20.21	21.00	1.199			0.13	0.085	0.102
	LTE Band 2	20M	QPSK	1	99	Left Cheek	0mm	Ant 6	DSI2	18700+18898	1860+1879.8	1	20.97	22.00	1.268			0.06	0.922	1.169
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	26140	1860	2	21.08	22.00	1.236			0.06	0.913	1.128
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	26140	1860	Cover	21.08	22.00	1.236			0.01	0.888	1.098
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI2	26865	831.5	1	22.33	24.00	1.469			0.08	0.108	0.159
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 0	DSI2	26865	831.5	1	21.44	23.00	1.432			0.06	0.069	0.099
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI2	26865	831.5	1	22.33	24.00	1.469			-0.06	0.069	0.101
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 0	DSI2	26865	831.5	1	21.44	23.00	1.432</					



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	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 0	DSI2	26865	831.5	1	21.44	23.00	1.432			-0.09	0.127	0.182
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI2	26865	831.5	1	22.33	24.00	1.469			0.03	0.107	0.157
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 0	DSI2	26865	831.5	1	21.44	23.00	1.432			0.11	0.071	0.102
	LTE Band 5	10M	QPSK	1	49	Left Cheek	0mm	Ant 0	DSI2	20475+20574	831.5+841.4	1	22.19	24.00	1.517			0.06	0.189	0.287
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	26865	831.5	2	22.33	24.00	1.469			0.01	0.185	0.272
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	26865	831.5	Cover	22.33	24.00	1.469			0.06	0.198	0.291
10	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	26865	831.5	1	22.94	23.90	1.247			-0.09	1.030	1.284
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 1	DSI2	26865	831.5	1	21.78	23.00	1.324			-0.14	0.630	0.834
	LTE Band 26	15M	QPSK	75	0	Right Cheek	0mm	Ant 1	DSI2	26865	831.5	1	21.83	23.00	1.309			0.06	0.612	0.801
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	26865	831.5	1	22.94	23.90	1.247			0.08	0.969	1.209
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 1	DSI2	26865	831.5	1	21.78	23.00	1.324			-0.15	0.585	0.775
	LTE Band 26	15M	QPSK	75	0	Right Tilted	0mm	Ant 1	DSI2	26865	831.5	1	21.83	23.00	1.309			0.04	0.572	0.749
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2	26865	831.5	1	22.94	23.90	1.247			0.10	0.495	0.617
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 1	DSI2	26865	831.5	1	21.78	23.00	1.324			-0.12	0.299	0.395
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2	26865	831.5	1	22.94	23.90	1.247			-0.10	0.454	0.566
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 1	DSI2	26865	831.5	1	21.78	23.00	1.324			-0.10	0.275	0.364
	LTE Band 5	10M	QPSK	1	49	Right Cheek	0mm	Ant 1	DSI2	20475+20574	831.5+841.4	1	22.54	23.90	1.368			0.06	0.853	1.167
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	26865	831.5	2	22.94	23.90	1.247			0.03	0.849	1.059
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	26865	831.5	Cover	22.94	23.90	1.247			-0.03	0.955	1.191
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI2	132322	1745	1	21.86	23.00	1.3			-0.17	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI2	132322	1745	1	20.88	22.00	1.294			0.10	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI2	132322	1745	1	21.86	23.00	1.3			0.14	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI2	132322	1745	1	20.88	22.00	1.294			0.14	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	132322	1745	1	21.86	23.00	1.3			-0.03	0.065	0.085
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI2	132322	1745	1	20.88	22.00	1.294			-0.13	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI2	132322	1745	1	21.86	23.00	1.3			-0.08	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI2	132322	1745	1	20.88	22.00	1.294			-0.07	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	132322	1745	2	21.86	23.00	1.3			0.03	0.058	0.075
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	132322	1745	Cover	21.86	23.00	1.3			0.01	0.060	0.078
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	132322	1745	1	16.01	17.10	1.285			0.14	0.923	1.187
11	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	132072	1720	1	15.90	17.10	1.318			0.03	0.970	1.278
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	132572	1770	1	15.93	17.10	1.309			0.15	0.708	0.927
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2	132322	1745	1	15.96	17.10	1.3			0.19	0.584	0.759
	LTE Band 66	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	DSI2	132322	1745	1	15.89	17.10	1.321			0.06	0.582	0.768
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	132322	1745	1	16.01	17.10	1.285			-0.07	0.730	0.938
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	132072	1720	1	15.90	17.10	1.318			0.01	0.777	1.024
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	132572	1770	1	15.93	17.10	1.309			0.09	0.555	0.726
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI2	132322	1745	1	15.96	17.10	1.3			-0.11	0.464	0.603
	LTE Band 66	20M	QPSK	100	0	Right Tilted	0mm	Ant 1	DSI2	132322	1745	1	15.89	17.10	1.321			-0.10	0.459	0.607
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2	132322	1745	1	16.01	17.10	1.285			0.06	0.220	0.283
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI2	132322	1745	1	15.96	17.10	1.3			-0.02	0.134	0.174
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2	132322	1745	1	16.01	17.10	1.285			-0.06	0.235	0.302
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI2	132322	1745	1	15.96	17.10	1.3			0.02	0.149	0.194
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI2	132322	1745	1	23.06	24.00	1.242			0.03	0.107	0.133
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI2	132322	1745	1	22.02	23.00	1.253			0.03	0.069	0.086
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI2	132322	1745	1	23.06	24.00	1.242			0.04	0.084	0.104
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI2	132322	1745	1	22.02	23.00	1.253			-0.15	0.054	0.068
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI2	132322	1745	1	23.06	24.00	1.242			-0.03	0.131	0.163
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI2	132322	1745	1	22.02	23.00	1.253			-0.02	0.083	0.104
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI2	132322	1745	1	23.06	24.00	1.242			-0.02	0.084	0.104
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI2	132322	1745	1	22.02	23.00	1.253			0.09	0.056	0.070
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI2	132322	1745	2	23.06	24.00	1.242			-0.03	0.098	0.122
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI2	132322	1745	Cover	23.06	24.00	1.242			0.01	0.125	0.155
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 6	DSI2	132322	1745	1	21.24	22.00	1.191			-0.12	0.593	0.706
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 6	DSI2	132322	1745	1	20.15	21.00	1.216			0.01	0.372	0.453
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 6	DSI2	132322	1745	1	21.24	22.00	1.191			0.08	0.101	0.121
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 6	DSI2	132322	1745	1	20.15	21.00	1.216			-0.11	0.066	0.080
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	132322	1745	1	21.24	22.00	1.191			-0.05	1.050	1.251
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	132072	1720	1	21.19	22.00	1.205			-0.18	0.907	1.092
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	132572	1770	1	21.15	22.00	1.216			0.07	1.010	1.228
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	DSI2	132322	1745	1	20.15	21.00	1.216			0.07	0.633	0.769
	LTE Band 66	20M	QPSK	100	0	Left Cheek	0mm	Ant 6	DSI2	132322	1745	1	20.03	21.00	1.25			-0.06	0.625	0.782
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	DSI2	132322	1745	1	21.24	22.00	1.191			0.11	0.145	0.173
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	DSI2	132322	1745	1	20.15	21.00	1.216			0.07	0.093	0.113
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	132322	1745	2	21.24	22.00	1.191			0.09	0.922	1.098
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	132322	1745	Cover	21.24	22.00	1.191			0.03	0.948	1.129
	LTE Band 71	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI2	133297	680.5	1	22.37	24.00	1.455			-0.10	0.057	0.083
	LTE Band 71	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI2	133297	680.5	1	21.32	23.00	1.472			0.02	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI2	133297	680.5	1	22.37	24.00	1.455			0.18	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI2	133297	680.5	1	21.32	23.00	1.472			0.12	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	133297	680.5	1	22.37	24.00	1.455			-0.05	0.099	0.144
	LTE Band 71	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI2	133297	680.5									



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	LTE Band 71	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI2	133297	680.5	1	21.32	23.00	1.472			-0.12	0.001	0.001
12	LTE Band 71	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	133297	680.5	1	22.72	24.00	1.343			0.04	0.472	0.634
	LTE Band 71	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2	133297	680.5	1	21.75	23.00	1.334			0.15	0.301	0.402
	LTE Band 71	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	133297	680.5	1	22.72	24.00	1.343			0.07	0.452	0.607
	LTE Band 71	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI2	133297	680.5	1	21.75	23.00	1.334			0.10	0.288	0.385
	LTE Band 71	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2	133297	680.5	1	22.72	24.00	1.343			-0.11	0.197	0.265
	LTE Band 71	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI2	133297	680.5	1	21.75	23.00	1.334			0.06	0.130	0.173
	LTE Band 71	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2	133297	680.5	1	22.72	24.00	1.343			0.11	0.197	0.264
	LTE Band 71	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI2	133297	680.5	1	21.75	23.00	1.334			0.04	0.127	0.170
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI2	40620	2593	1	21.93	23.00	1.279	62.9	1.006	-0.11	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI2	40620	2593	1	20.99	22.00	1.262	62.9	1.006	0.03	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI2	40620	2593	1	21.93	23.00	1.279	62.9	1.006	-0.03	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI2	40620	2593	1	20.99	22.00	1.262	62.9	1.006	0.03	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	40620	2593	1	21.93	23.00	1.279	62.9	1.006	0.18	0.046	0.059
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI2	40620	2593	1	20.99	22.00	1.262	62.9	1.006	0.12	0.035	0.044
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI2	40620	2593	1	21.93	23.00	1.279	62.9	1.006	-0.10	0.034	0.044
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI2	40620	2593	1	20.99	22.00	1.262	62.9	1.006	-0.18	0.001	0.001
	LTE Band 41_HPUE	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	40620	2593	1	24.95	26.00	1.274	42.9	1.009	0.03	0.061	0.078
	LTE Band 41_HPUE	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI2	40620+40422	2593+2573.2	1	24.26	26.00	1.493	42.9	1.009	0.05	0.048	0.072
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	40620	2593	1	19.45	20.80	1.365	62.9	1.006	-0.01	0.909	1.248
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	39750	2506	1	19.38	20.80	1.387	62.9	1.006	-0.16	0.818	1.142
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	40185	2549.5	1	19.36	20.80	1.393	62.9	1.006	0.16	0.811	1.136
13	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	41055	2636.5	1	19.41	20.80	1.377	62.9	1.006	-0.01	0.932	1.291
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	41490	2680	1	19.43	20.80	1.371	62.9	1.006	0.14	0.728	1.005
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2	40620	2593	1	19.40	20.80	1.38	62.9	1.006	-0.02	0.591	0.821
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2	39750	2506	1	19.32	20.80	1.406	62.9	1.006	0.13	0.521	0.737
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2	40185	2549.5	1	19.28	20.80	1.419	62.9	1.006	-0.17	0.517	0.738
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2	41055	2636.5	1	19.34	20.80	1.4	62.9	1.006	0.01	0.595	0.838
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2	41490	2680	1	19.36	20.80	1.393	62.9	1.006	0.09	0.482	0.675
	LTE Band 41	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	DSI2	40620	2593	1	19.33	20.80	1.403	62.9	1.006	-0.02	0.583	0.824
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	40620	2593	1	19.45	20.80	1.365	62.9	1.006	0.16	0.615	0.844
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	39750	2506	1	19.38	20.80	1.387	62.9	1.006	0.05	0.728	1.016
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	40185	2549.5	1	19.36	20.80	1.393	62.9	1.006	-0.03	0.650	0.911
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	41055	2636.5	1	19.41	20.80	1.377	62.9	1.006	0.02	0.392	0.542
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2	41490	2680	1	19.43	20.80	1.371	62.9	1.006	-0.04	0.709	0.978
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI2	40620	2593	1	19.40	20.80	1.38	62.9	1.006	-0.02	0.396	0.549
	LTE Band 41	20M	QPSK	100	0	Right Tilted	0mm	Ant 1	DSI2	40620	2593	1	19.33	20.80	1.403	62.9	1.006	0.15	0.399	0.564
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2	40620	2593	1	19.45	20.80	1.365	62.9	1.006	0.13	0.269	0.369
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI2	40620	2593	1	19.40	20.80	1.38	62.9	1.006	0.08	0.172	0.239
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2	40620	2593	1	19.45	20.80	1.365	62.9	1.006	0.08	0.343	0.471
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI2	40620	2593	1	19.40	20.80	1.38	62.9	1.006	0.10	0.224	0.311
	LTE Band 41_HPUE	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	41055	2636.5	1	20.95	22.40	1.396	42.9	1.009	-0.05	0.896	1.262
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	41055+40857	2636.5+2616.7	1	19.08	20.80	1.486	62.9	1.006	0.03	0.785	1.174
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	41055	2636.5	2	19.41	20.80	1.377	62.9	1.006	0.06	0.811	1.123
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2	41055	2636.5	Cover	19.41	20.80	1.377	62.9	1.006	-0.06	0.883	1.223
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI2	40620	2593	1	22.26	24.00	1.493	62.9	1.006	-0.11	0.052	0.078
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI2	40620	2593	1	21.25	23.00	1.496	62.9	1.006	0.04	0.033	0.050
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI2	40620	2593	1	22.26	24.00	1.493	62.9	1.006	0.13	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI2	40620	2593	1	21.25	23.00	1.496	62.9	1.006	-0.03	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI2	40620	2593	1	22.26	24.00	1.493	62.9	1.006	-0.04	0.032	0.048
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI2	40620	2593	1	21.25	23.00	1.496	62.9	1.006	-0.11	0.023	0.034
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI2	40620	2593	1	22.26	24.00	1.493	62.9	1.006	0.12	0.031	0.047
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI2	40620	2593	1	21.25	23.00	1.496	62.9	1.006	-0.18	0.001	0.001
	LTE Band 41_HPUE	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI2	40620	2593	1	25.28	27.00	1.486	42.9	1.009	-0.12	0.076	0.114
	LTE Band 41_HPUE	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI2	40620+40422	2593+2573.2	1	25.25	27.00	1.496	42.9	1.009	0.04	0.065	0.098
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 6	DSI2	40620	2593	1	20.75	22.00	1.334	62.9	1.006	0.14	0.320	0.429
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 6	DSI2	40620	2593	1	19.81	21.00	1.315	62.9	1.006	0.05	0.203	0.269
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 6	DSI2	40620	2593	1	20.75	22.00	1.334	62.9	1.006	-0.09	0.060	0.081
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 6	DSI2	40620	2593	1	19.81	21.00	1.315	62.9	1.006	-0.10	0.038	0.051
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	40620	2593	1	20.75	22.00	1.334	62.9	1.006	-0.14	0.532	0.714
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	39750	2506	1	20.66	22.00	1.361	62.9	1.006	0.02	0.669	0.915
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	40185	2549.5	1	20.69	22.00	1.352	62.9	1.006	-0.05	0.679	0.924
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	41055	2636.5	1	20.70	22.00	1.349	62.9	1.006	-0.06	0.316	0.428
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DSI2	41490	2680	1	20.63	22.00	1.371	62.9	1.006	-0.18	0.283	0.391
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	DSI2	40620	2593	1	19.81	21.00	1.315	62.9	1.006	0.13	0.336	0.444
	LTE Band 41	20M	QPSK	100	0	Left Cheek	0mm	Ant 6	DSI2	40620	2593	1	19.66	21.00	1.361	62.9	1.006	0.01	0.334	0.457
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	DSI2	40620	2593	1	20.75	22.00	1.334	62.9	1.006	0.03	0.167	0.225
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	DSI2	40620	2593	1	19.81	21.00	1.315	62				



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	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSi2	42590	3500	1	20.18	21.10	1.236	62.9	1.006	0.09	0.673	0.837
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSi2	42190	3460	1	20.15	21.10	1.245	62.9	1.006	-0.02	0.600	0.751
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSi2	42990	3540	1	20.11	21.10	1.256	62.9	1.006	-0.15	0.658	0.831
	LTE Band 42	20M	QPSK	100	0	Right Cheek	0mm	Ant 7	DSi2	42590	3500	1	20.09	21.10	1.262	62.9	1.006	-0.07	0.635	0.806
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 7	DSi2	42590	3500	1	20.20	21.10	1.23	62.9	1.006	-0.01	0.304	0.376
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 7	DSi2	42590	3500	1	20.18	21.10	1.236	62.9	1.006	-0.11	0.188	0.234
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 7	DSi2	42590	3500	1	20.20	21.10	1.23	62.9	1.006	0.00	0.297	0.367
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 7	DSi2	42590	3500	1	20.18	21.10	1.236	62.9	1.006	-0.12	0.193	0.241
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 7	DSi2	42590	3500	1	20.20	21.10	1.23	62.9	1.006	0.05	0.107	0.132
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 7	DSi2	42590	3500	1	20.18	21.10	1.236	62.9	1.006	0.08	0.069	0.086
	LTE Band 42	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSi2	42590+42788	3500+3519.8	1	20.03	21.10	1.279	62.9	1.006	0.01	0.911	1.172
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSi2	42590	3500	2	20.20	21.10	1.23	62.9	1.006	0.06	0.878	1.086
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSi2	42590	3500	Cover	20.20	21.10	1.23	62.9	1.006	-0.03	0.949	1.174
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSi2	42590	3500	1	19.30	20.30	1.259	62.9	1.006	0.19	0.244	0.309
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSi2	42590	3500	1	19.26	20.30	1.271	62.9	1.006	-0.11	0.155	0.199
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	DSi2	42590	3500	1	19.30	20.30	1.259	62.9	1.006	-0.14	0.234	0.297
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSi2	42590	3500	1	19.26	20.30	1.271	62.9	1.006	0.00	0.147	0.189
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSi2	42590	3500	1	19.30	20.30	1.259	62.9	1.006	0.08	0.941	1.191
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSi2	42190	3460	1	19.25	20.30	1.274	62.9	1.006	0.01	1.000	1.282
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSi2	42990	3540	1	19.21	20.30	1.285	62.9	1.006	-0.15	0.936	1.210
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSi2	42590	3500	1	19.26	20.30	1.271	62.9	1.006	0.02	0.607	0.777
	LTE Band 42	20M	QPSK	100	0	Left Cheek	0mm	Ant 5	DSi2	42590	3500	1	19.18	20.30	1.294	62.9	1.006	0.05	0.603	0.785
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSi2	42590	3500	1	19.30	20.30	1.259	62.9	1.006	0.07	0.749	0.948
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSi2	42190	3460	1	19.25	20.30	1.274	62.9	1.006	0.16	0.703	0.901
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSi2	42990	3540	1	19.21	20.30	1.285	62.9	1.006	0.19	0.731	0.944
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	DSi2	42590	3500	1	19.26	20.30	1.271	62.9	1.006	-0.13	0.466	0.596
	LTE Band 42	20M	QPSK	100	0	Left Tilted	0mm	Ant 5	DSi2	42590	3500	1	19.18	20.30	1.294	62.9	1.006	0.01	0.461	0.600
	LTE Band 42	20M	QPSK	1	99	Left Cheek	0mm	Ant 5	DSi2	42190+42388	3460+3479.8	1	19.08	20.30	1.324	62.9	1.006	0.06	0.875	1.165
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSi2	55990	3625	1	19.10	20.30	1.318	62.9	1.006	0.13	0.871	1.155
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSi2	55340	3560	1	19.01	20.30	1.346	62.9	1.006	-0.00	0.818	1.108
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSi2	55830	3609	1	19.06	20.30	1.33	62.9	1.006	0.06	0.885	1.184
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSi2	56150	3641	1	18.98	20.30	1.355	62.9	1.006	-0.03	0.917	1.250
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSi2	56640	3690	1	19.05	20.30	1.334	62.9	1.006	-0.07	0.959	1.287
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSi2	55990	3625	1	19.06	20.30	1.33	62.9	1.006	-0.09	0.555	0.743
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSi2	55340	3560	1	18.83	20.30	1.403	62.9	1.006	-0.03	0.506	0.714
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSi2	55830	3609	1	18.94	20.30	1.368	62.9	1.006	-0.11	0.544	0.749
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSi2	56150	3641	1	18.88	20.30	1.387	62.9	1.006	-0.08	0.580	0.809
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSi2	56640	3690	1	18.89	20.30	1.384	62.9	1.006	0.17	0.604	0.841
	LTE Band 48	20M	QPSK	100	0	Right Cheek	0mm	Ant 7	DSi2	55990	3625	1	18.91	20.30	1.377	62.9	1.006	-0.12	0.559	0.774
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 7	DSi2	55990	3625	1	19.10	20.30	1.318	62.9	1.006	-0.04	0.257	0.341
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 7	DSi2	55990	3625	1	19.06	20.30	1.33	62.9	1.006	-0.04	0.149	0.200
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 7	DSi2	55990	3625	1	19.10	20.30	1.318	62.9	1.006	-0.02	0.288	0.382
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 7	DSi2	55990	3625	1	19.06	20.30	1.33	62.9	1.006	0.14	0.182	0.244
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 7	DSi2	55990	3625	1	19.10	20.30	1.318	62.9	1.006	-0.08	0.086	0.114
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 7	DSi2	55990	3625	1	19.06	20.30	1.33	62.9	1.006	0.00	0.054	0.072
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSi2	56640+56442	3690+3670.2	1	18.91	20.30	1.377	62.9	1.006	0.03	0.846	1.172
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSi2	56640	3690	2	19.05	20.30	1.334	62.9	1.006	0.01	0.789	1.059
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSi2	56640	3690	Cover	19.05	20.30	1.334	62.9	1.006	-0.03	0.846	1.135
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	DSi2	55990	3625	1	19.53	20.80	1.34	62.9	1.006	0.02	0.214	0.289
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	DSi2	55990	3625	1	19.48	20.80	1.355	62.9	1.006	0.14	0.145	0.198
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	DSi2	55990	3625	1	19.53	20.80	1.34	62.9	1.006	0.14	0.209	0.282
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	DSi2	55990	3625	1	19.48	20.80	1.355	62.9	1.006	-0.14	0.142	0.193
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSi2	55990	3625	1	19.53	20.80	1.34	62.9	1.006	-0.16	0.909	1.225
15	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSi2	55340	3560	1	19.49	20.80	1.352	62.9	1.006	-0.04	0.953	1.296
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSi2	55830	3609	1	19.46	20.80	1.361	62.9	1.006	-0.05	0.933	1.278
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSi2	56150	3641	1	19.50	20.80	1.349	62.9	1.006	-0.08	0.875	1.187
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DSi2	56640	3690	1	19.45	20.80	1.365	62.9	1.006	-0.02	0.885	1.215
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSi2	55990	3625	1	19.48	20.80	1.355	62.9	1.006	0.11	0.567	0.773
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSi2	55340	3560	1	19.33	20.80	1.403	62.9	1.006	0.14	0.621	0.876
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSi2	55830	3609	1	19.37	20.80	1.39	62.9	1.006	0.17	0.577	0.806
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSi2	56150	3641	1	19.38	20.80	1.387	62.9	1.006	-0.05	0.562	0.784
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	DSi2	56640	3690	1	19.33	20.80	1.403	62.9	1.006	-0.00	0.547	0.773
	LTE Band 48	20M	QPSK	100	0	Left Cheek	0mm	Ant 5	DSi2	55990	3625	1	19.45	20.80	1.365	62.9	1.006	0.12	0.562	0.772
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSi2	55990	3625	1	19.53	20.80	1.34	62.9	1.006	-0.10	0.709	0.955
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSi2	55340	3560	1	19.49	20.80	1.352	62.9	1.006	0.12	0.728	0.990
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSi2	55830	3609	1	19.46	20.80	1.361	62.9	1.006	0.05	0.694	0.950
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSi2	56150	3641	1	19.50	20.80	1.349	62.9	1.006	0.06	0.665	0.902
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	DSi2	56640	3690	1								



【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)
16	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI2	507000	2535	1	18.35	19.00	1.161			0.16	0.879	1.021
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 1	DSI2	507000	2535	1	18.31	19.00	1.172			0.04	1.090	1.277
	FR1 n7	50M	BPSK	270	0	Right Cheek	0mm	Ant 1	DSI2	507000	2535	1	18.25	19.00	1.189			0.10	0.901	1.071
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI2	507000	2535	1	18.35	19.00	1.161			0.19	0.650	0.755
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 1	DSI2	507000	2535	1	18.31	19.00	1.172			0.10	0.730	0.856
	FR1 n7	50M	BPSK	270	0	Right Tilted	0mm	Ant 1	DSI2	507000	2535	1	18.25	19.00	1.189			-0.13	0.642	0.763
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI2	507000	2535	1	18.35	19.00	1.161			-0.03	0.292	0.339
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 1	DSI2	507000	2535	1	18.31	19.00	1.172			-0.02	0.330	0.387
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 1	DSI2	507000	2535	1	18.35	19.00	1.161			-0.13	0.389	0.452
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 1	DSI2	507000	2535	1	18.31	19.00	1.172			0.14	0.416	0.488
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 2	DSI2	507000	2535	1	22.17	24.00	1.524			0.08	0.125	0.191
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 2	DSI2	507000	2535	1	22.12	24.00	1.542			-0.09	0.121	0.187
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 2	DSI2	507000	2535	1	22.17	24.00	1.524			-0.05	0.043	0.066
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 2	DSI2	507000	2535	1	22.12	24.00	1.542			0.14	0.039	0.060
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 2	DSI2	507000	2535	1	22.17	24.00	1.524			0.00	0.073	0.111
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 2	DSI2	507000	2535	1	22.12	24.00	1.542			0.13	0.089	0.137
17	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 2	DSI2	507000	2535	1	22.17	24.00	1.524			0.19	0.063	0.096
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 2	DSI2	507000	2535	1	22.12	24.00	1.542			-0.07	0.059	0.091
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 2	DSI2	507000	2535	2	22.17	24.00	1.524			0.06	0.095	0.145
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 2	DSI2	507000	2535	Cover	22.17	24.00	1.524			0.03	0.110	0.168
	FR1 n25	40M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI2	376500	1882.5	1	16.43	17.30	1.222			-0.15	0.982	1.200
	FR1 n25	40M	BPSK	108	54	Right Cheek	0mm	Ant 1	DSI2	376500	1882.5	1	16.39	17.30	1.233			0.10	1.040	1.282
	FR1 n25	40M	BPSK	216	0	Right Cheek	0mm	Ant 1	DSI2	376500	1882.5	1	16.31	17.30	1.256			0.02	0.947	1.189
	FR1 n25	40M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI2	376500	1882.5	1	16.43	17.30	1.222			-0.01	0.824	1.007
	FR1 n25	40M	BPSK	108	54	Right Tilted	0mm	Ant 1	DSI2	376500	1882.5	1	16.39	17.30	1.233			-0.04	0.853	1.052
	FR1 n25	40M	BPSK	216	0	Right Tilted	0mm	Ant 1	DSI2	376500	1882.5	1	16.31	17.30	1.256			0.15	0.770	0.967
	FR1 n25	40M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI2	376500	1882.5	1	16.43	17.30	1.222			-0.04	0.277	0.338
	FR1 n25	40M	BPSK	108	54	Left Cheek	0mm	Ant 1	DSI2	376500	1882.5	1	16.39	17.30	1.233			-0.06	0.300	0.370
	FR1 n25	40M	BPSK	1	1	Left Tilted	0mm	Ant 1	DSI2	376500	1882.5	1	16.43	17.30	1.222			0.14	0.321	0.392
	FR1 n25	40M	BPSK	108	54	Left Tilted	0mm	Ant 1	DSI2	376500	1882.5	1	16.39	17.30	1.233			-0.04	0.345	0.425
	FR1 n25	40M	BPSK	1	1	Right Cheek	0mm	Ant 2	DSI2	376500	1882.5	1	22.48	24.00	1.419			0.10	0.088	0.125
	FR1 n25	40M	BPSK	108	54	Right Cheek	0mm	Ant 2	DSI2	376500	1882.5	1	22.32	24.00	1.472			0.16	0.087	0.128
18	FR1 n25	40M	BPSK	1	1	Right Tilted	0mm	Ant 2	DSI2	376500	1882.5	1	22.48	24.00	1.419			-0.11	0.052	0.073
	FR1 n25	40M	BPSK	108	54	Right Tilted	0mm	Ant 2	DSI2	376500	1882.5	1	22.32	24.00	1.472			0.12	0.052	0.076
	FR1 n25	40M	BPSK	1	1	Left Cheek	0mm	Ant 2	DSI2	376500	1882.5	1	22.48	24.00	1.419			0.12	0.067	0.095
	FR1 n25	40M	BPSK	108	54	Left Cheek	0mm	Ant 2	DSI2	376500	1882.5	1	22.32	24.00	1.472			0.07	0.063	0.092
	FR1 n25	40M	BPSK	1	1	Left Tilted	0mm	Ant 2	DSI2	376500	1882.5	1	22.48	24.00	1.419			0.17	0.055	0.078
	FR1 n25	40M	BPSK	108	54	Left Tilted	0mm	Ant 2	DSI2	376500	1882.5	1	22.32	24.00	1.472			-0.07	0.059	0.086
	FR1 n26	20M	BPSK	1	1	Right Cheek	0mm	Ant 0	DSI2	166300	831.5	1	22.54	24.00	1.4			-0.09	0.095	0.133
	FR1 n26	20M	BPSK	50	28	Right Cheek	0mm	Ant 0	DSI2	166300	831.5	1	22.43	24.00	1.435			-0.09	0.098	0.141
	FR1 n26	20M	BPSK	1	1	Right Tilted	0mm	Ant 0	DSI2	166300	831.5	1	22.54	24.00	1.4			0.01	0.057	0.080
	FR1 n26	20M	BPSK	50	28	Right Tilted	0mm	Ant 0	DSI2	166300	831.5	1	22.43	24.00	1.435			-0.14	0.059	0.085
	FR1 n26	20M	BPSK	1	1	Left Cheek	0mm	Ant 0	DSI2	166300	831.5	1	22.54	24.00	1.4			0.06	0.164	0.230
	FR1 n26	20M	BPSK	50	28	Left Cheek	0mm	Ant 0	DSI2	166300	831.5	1	22.43	24.00	1.435			0.10	0.176	0.253
	FR1 n26	20M	BPSK	1	1	Left Tilted	0mm	Ant 0	DSI2	166300	831.5	1	22.54	24.00	1.4			-0.16	0.097	0.136
	FR1 n26	20M	BPSK	50	28	Left Tilted	0mm	Ant 0	DSI2	166300	831.5	1	22.43	24.00	1.435			0.04	0.098	0.141
	FR1 n26	20M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI2	166300	831.5	1	22.66	24.00	1.361			-0.01	0.778	1.059
	FR1 n26	20M	BPSK	50	28	Right Cheek	0mm	Ant 1	DSI2	166300	831.5	1	22.55	24.00	1.396			-0.14	0.748	1.045
19	FR1 n26	20M	BPSK	100	0	Right Cheek	0mm	Ant 1	DSI2	166300	831.5	1	22.04	23.50	1.4			0.02	0.660	0.924
	FR1 n26	20M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI2	166300	831.5	1	22.66	24.00	1.361			-0.11	0.744	1.013
	FR1 n26	20M	BPSK	50	28	Right Tilted	0mm	Ant 1	DSI2	166300	831.5	1	22.55	24.00	1.396			0.06	0.735	1.026
	FR1 n26	20M	BPSK	100	0	Right Tilted	0mm	Ant 1	DSI2	166300	831.5	1	22.04	23.50	1.4			0.16	0.662	0.927
	FR1 n26	20M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI2	166300	831.5	1	22.66	24.00	1.361			0.18	0.387	0.527
	FR1 n26	20M	BPSK	50	28	Left Cheek	0mm	Ant 1	DSI2	166300	831.5	1	22.55	24.00	1.396			0.06	0.394	0.550
	FR1 n26	20M	BPSK	1	1	Left Tilted	0mm	Ant 1	DSI2	166300	831.5	1	22.66	24.00	1.361			-0.03	0.339	0.462
	FR1 n26	20M	BPSK	50	28	Left Tilted	0mm	Ant 1	DSI2	166300	831.5	1	22.55	24.00	1.396			-0.05	0.354	0.494
	FR1 n66	40M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI2	349000	1745	1	16.49	17.20	1.178			0.12	1.090	1.284
	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 1	DSI2	349000	1745	1	16.45	17.20	1.189			-0.04	0.968	1.151
	FR1 n66	40M	BPSK	216	0	Right Cheek	0mm	Ant 1	DSI2	349000	1745	1	16.33	17.20	1.222			0.04	0.858	1.048
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI2	349000	1745	1	16.49	17.20	1.178			0.03	0.878	1.034
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 1	DSI2	349000	1745	1	16.45	17.20	1.189			0.07	0.801	0.952
	FR1 n66	40M	BPSK	216	0	Right Tilted	0mm	Ant 1	DSI2	349000	1745	1	16.33	17.20	1.222			0.05	0.688	0.841
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI2	349000	1745	1	16.49	17.20	1.178			-0.10	0.269	0.317
	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 1	DSI2	349000	1745	1	16.45	17.20	1.189			0.17	0.236	0.281
	FR1 n66	40M	BPSK	1	1	Left Tilted	0mm	Ant 1	DSI2	349000	1745	1	16.49	17.20	1.178			0.11	0.289	0.340
	FR1 n66	40M	BPSK	108	54	Left Tilted	0mm	Ant 1	DSI2	349000	1745	1	16.45	17.20	1.189			0.09	0.260	0.309
	FR1 n66	40M	BPSK	1	1	Right Cheek	0mm	Ant 2	DSI2	349000	1745	1	22.95	24.00	1.274			0.14	0.097	0.124



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	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 2	DSI2	349000	1745	1	22.75	24.00	1.334			0.03	0.091	0.121
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 2	DSI2	349000	1745	1	22.95	24.00	1.274			-0.17	0.072	0.092
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 2	DSI2	349000	1745	1	22.75	24.00	1.334			0.16	0.071	0.095
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 2	DSI2	349000	1745	1	22.95	24.00	1.274			0.06	0.101	0.129
	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 2	DSI2	349000	1745	1	22.75	24.00	1.334			0.06	0.095	0.127
	FR1 n66	40M	BPSK	1	1	Left Tilted	0mm	Ant 2	DSI2	349000	1745	1	22.95	24.00	1.274			-0.09	0.076	0.097
	FR1 n66	40M	BPSK	108	54	Left Tilted	0mm	Ant 2	DSI2	349000	1745	1	22.75	24.00	1.334			0.07	0.073	0.097
	FR1 n70	15M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI2	340500	1702.5	1	16.25	17.20	1.245			-0.06	0.989	1.231
20	FR1 n70	15M	BPSK	36	22	Right Cheek	0mm	Ant 1	DSI2	340500	1702.5	1	16.20	17.20	1.259			-0.02	1.020	1.284
	FR1 n70	15M	BPSK	75	0	Right Cheek	0mm	Ant 1	DSI2	340500	1702.5	1	16.13	17.20	1.279			-0.04	0.924	1.182
	FR1 n70	15M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI2	340500	1702.5	1	16.25	17.20	1.245			0.10	0.828	1.031
	FR1 n70	15M	BPSK	36	22	Right Tilted	0mm	Ant 1	DSI2	340500	1702.5	1	16.20	17.20	1.259			0.18	0.880	1.109
	FR1 n70	15M	BPSK	75	0	Right Tilted	0mm	Ant 1	DSI2	340500	1702.5	1	16.13	17.20	1.279			0.02	0.747	0.956
	FR1 n70	15M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI2	340500	1702.5	1	16.25	17.20	1.245			-0.17	0.263	0.327
	FR1 n70	15M	BPSK	36	22	Left Cheek	0mm	Ant 1	DSI2	340500	1702.5	1	16.20	17.20	1.259			-0.16	0.260	0.327
	FR1 n70	15M	BPSK	1	1	Left Tilted	0mm	Ant 1	DSI2	340500	1702.5	1	16.25	17.20	1.245			0.03	0.292	0.363
	FR1 n70	15M	BPSK	36	22	Left Tilted	0mm	Ant 1	DSI2	340500	1702.5	1	16.20	17.20	1.259			-0.18	0.295	0.371
	FR1 n70	15M	BPSK	1	1	Right Cheek	0mm	Ant 2	DSI2	340500	1702.5	1	22.95	24.00	1.274			0.00	0.086	0.110
	FR1 n70	15M	BPSK	36	22	Right Cheek	0mm	Ant 2	DSI2	340500	1702.5	1	22.85	24.00	1.303			0.04	0.088	0.115
	FR1 n70	15M	BPSK	1	1	Right Tilted	0mm	Ant 2	DSI2	340500	1702.5	1	22.95	24.00	1.274			-0.05	0.065	0.083
	FR1 n70	15M	BPSK	36	22	Right Tilted	0mm	Ant 2	DSI2	340500	1702.5	1	22.85	24.00	1.303			0.19	0.062	0.081
	FR1 n70	15M	BPSK	1	1	Left Cheek	0mm	Ant 2	DSI2	340500	1702.5	1	22.95	24.00	1.274			-0.14	0.102	0.130
	FR1 n70	15M	BPSK	36	22	Left Cheek	0mm	Ant 2	DSI2	340500	1702.5	1	22.85	24.00	1.303			-0.03	0.106	0.138
	FR1 n70	15M	BPSK	1	1	Left Tilted	0mm	Ant 2	DSI2	340500	1702.5	1	22.95	24.00	1.274			0.11	0.068	0.087
	FR1 n70	15M	BPSK	36	22	Left Tilted	0mm	Ant 2	DSI2	340500	1702.5	1	22.85	24.00	1.303			0.13	0.071	0.093
	FR1 n71	35M	BPSK	1	1	Right Cheek	0mm	Ant 0	DSI2	136100	680.5	1	22.65	24.00	1.365			-0.01	0.001	0.001
	FR1 n71	35M	BPSK	90	45	Right Cheek	0mm	Ant 0	DSI2	136100	680.5	1	22.64	24.00	1.368			0.09	0.052	0.071
	FR1 n71	35M	BPSK	1	1	Right Tilted	0mm	Ant 0	DSI2	136100	680.5	1	22.65	24.00	1.365			0.06	0.001	0.001
	FR1 n71	35M	BPSK	90	45	Right Tilted	0mm	Ant 0	DSI2	136100	680.5	1	22.64	24.00	1.368			-0.03	0.001	0.001
	FR1 n71	35M	BPSK	1	1	Left Cheek	0mm	Ant 0	DSI2	136100	680.5	1	22.65	24.00	1.365			-0.13	0.063	0.086
	FR1 n71	35M	BPSK	90	45	Left Cheek	0mm	Ant 0	DSI2	136100	680.5	1	22.64	24.00	1.368			0.01	0.087	0.119
	FR1 n71	35M	BPSK	1	1	Left Tilted	0mm	Ant 0	DSI2	136100	680.5	1	22.65	24.00	1.365			0.04	0.001	0.001
	FR1 n71	35M	BPSK	90	45	Left Tilted	0mm	Ant 0	DSI2	136100	680.5	1	22.64	24.00	1.368			0.06	0.049	0.067
21	FR1 n71	35M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI2	136100	680.5	1	22.65	24.00	1.365			0.09	0.492	0.672
	FR1 n71	35M	BPSK	90	45	Right Cheek	0mm	Ant 1	DSI2	136100	680.5	1	22.64	24.00	1.368			-0.05	0.480	0.657
	FR1 n71	35M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI2	136100	680.5	1	22.65	24.00	1.365			0.16	0.483	0.660
	FR1 n71	35M	BPSK	90	45	Right Tilted	0mm	Ant 1	DSI2	136100	680.5	1	22.64	24.00	1.368			-0.07	0.472	0.646
	FR1 n71	35M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI2	136100	680.5	1	22.65	24.00	1.365			-0.15	0.195	0.266
	FR1 n71	35M	BPSK	90	45	Left Cheek	0mm	Ant 1	DSI2	136100	680.5	1	22.64	24.00	1.368			-0.11	0.207	0.283
	FR1 n71	35M	BPSK	1	1	Left Tilted	0mm	Ant 1	DSI2	136100	680.5	1	22.65	24.00	1.365			-0.18	0.184	0.251
	FR1 n71	35M	BPSK	90	45	Left Tilted	0mm	Ant 1	DSI2	136100	680.5	1	22.64	24.00	1.368			0.05	0.200	0.274
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 0	DSI2	518598	2592.99	1	22.34	23.00	1.164			0.08	0.065	0.076
	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 0	DSI2	518598	2592.99	1	22.30	23.00	1.175			-0.12	0.060	0.070
	FR1 n41	100M	BPSK	1	1	Right Tilted	0mm	Ant 0	DSI2	518598	2592.99	1	22.34	23.00	1.164			0.16	0.060	0.070
	FR1 n41	100M	BPSK	135	69	Right Tilted	0mm	Ant 0	DSI2	518598	2592.99	1	22.30	23.00	1.175			0.02	0.051	0.060
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 0	DSI2	518598	2592.99	1	22.34	23.00	1.164			0.03	0.115	0.134
	FR1 n41	100M	BPSK	135	69	Left Cheek	0mm	Ant 0	DSI2	518598	2592.99	1	22.30	23.00	1.175			-0.03	0.091	0.107
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 0	DSI2	518598	2592.99	1	22.34	23.00	1.164			0.14	0.029	0.034
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 0	DSI2	518598	2592.99	1	22.30	23.00	1.175			-0.04	0.030	0.035
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 0	DSI2	518598	2592.99	2	22.34	23.00	1.164			0.06	0.084	0.098
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 0	DSI2	518598	2592.99	Cover	22.34	23.00	1.164			0.01	0.099	0.115
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI2	518598	2592.99	1	17.36	18.00	1.159			0.02	0.873	1.012
22	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	DSI2	518598	2592.99	1	17.33	18.00	1.167			0.04	1.100	1.284
	FR1 n41	100M	BPSK	270	0	Right Cheek	0mm	Ant 1	DSI2	518598	2592.99	1	17.24	18.00	1.191			-0.09	0.945	1.125
	FR1 n41	100M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI2	518598	2592.99	1	17.36	18.00	1.159			-0.01	0.545	0.631
	FR1 n41	100M	BPSK	135	69	Right Tilted	0mm	Ant 1	DSI2	518598	2592.99	1	17.33	18.00	1.167			0.07	0.584	0.682
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI2	518598	2592.99	1	17.36	18.00	1.159			-0.12	0.240	0.278
	FR1 n41	100M	BPSK	135	69	Left Cheek	0mm	Ant 1	DSI2	518598	2592.99	1	17.33	18.00	1.167			0.08	0.300	0.351
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 1	DSI2	518598	2592.99	1	17.36	18.00	1.159			-0.12	0.314	0.364
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 1	DSI2	518598	2592.99	1	17.33	18.00	1.167			0.12	0.364	0.425
	FR1 n41_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	DSI2	518598	2592.99	1	20.26	21.00	1.186	50.0	1.0	0.06	1.020	1.210
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 2	DSI2	518598	2592.99	1	23.01	24.00	1.256			0.06	0.111	0.139
	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 2	DSI2	518598	2592.99	1	22.76	24.00	1.33			-0.12	0.099	0.132
	FR1 n41	100M	BPSK	1	1	Right Tilted	0mm	Ant 2	DSI2	518598	2592.99	1	23.01	24.00	1.256			0.18	0.053	0.067
	FR1 n41	100M	BPSK	135	69	Right Tilted	0mm	Ant 2	DSI2	518598	2592.99	1	22.76	24.00	1.33			0.01	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 2	DSI2	518598	2592.99	1	23.01	24.00	1.256			0.04	0.072	0.090
	FR1 n41	100M	BPSK	135	69	Left Cheek	0mm	Ant 2	DSI2	518598	2592.99	1	22.76	24.00	1.33			0.14	0.089	0.118
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 2	DSI2	518598	2592.99	1	23.01	24.00	1.256			0.11	0.054	0.068
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 2	DSI2	518598	2592.99	1	22.76	24.00	1.33			-0.03	0.051	0.068
	FR1 n41_HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 2	DSI2	518598	2592.99	1	25.99	27.00	1.262	50.0	1.0	0.12	0.111	0.140
	FR1 n41	100M	BPSK	1	1	Right Cheek	0mm	Ant 6	DSI2	518598	2592.99									



FCC SAR Test Report

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	FR1 n41	100M	BPSK	135	69	Right Tilted	0mm	Ant 6	DSI2	518598	2592.99	1	17.90	18.10	1.047			0.02	0.087	0.091
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	DSI2	518598	2592.99	1	17.95	18.10	1.035			-0.19	1.030	1.066
	FR1 n41	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	DSI2	518598	2592.99	1	17.90	18.10	1.047			0.14	0.741	0.776
	FR1 n41	100M	BPSK	270	0	Left Cheek	0mm	Ant 6	DSI2	518598	2592.99	1	17.85	18.10	1.059			0.10	0.729	0.772
	FR1 n41	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	DSI2	518598	2592.99	1	17.95	18.10	1.035			-0.12	0.340	0.352
	FR1 n41	100M	BPSK	135	69	Left Tilted	0mm	Ant 6	DSI2	518598	2592.99	1	17.90	18.10	1.047			-0.16	0.214	0.224
	FR1 n41_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	DSI2	518598	2592.99	1	19.99	21.10	1.291	50.0	1.0	0.03	0.836	1.079
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	DSI2	656000	3840	1	16.99	18.10	1.291			0.03	1.000	1.291
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 7	DSI2	656000	3840	1	16.95	18.10	1.303			0.15	0.913	1.190
	FR1 n77	100M	BPSK	270	0	Right Cheek	0mm	Ant 7	DSI2	656000	3840	1	16.87	18.10	1.327			0.09	0.947	1.257
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 7	DSI2	656000	3840	1	16.99	18.10	1.291			-0.18	0.303	0.392
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 7	DSI2	656000	3840	1	16.95	18.10	1.303			-0.01	0.263	0.342
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 7	DSI2	656000	3840	1	16.99	18.10	1.291			0.08	0.282	0.364
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 7	DSI2	656000	3840	1	16.95	18.10	1.303			0.06	0.274	0.358
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 7	DSI2	656000	3840	1	16.99	18.10	1.291			-0.03	0.116	0.150
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 7	DSI2	656000	3840	1	16.95	18.10	1.303			0.15	0.102	0.133
	FR1 n77_HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	DSI2	656000	3840	1	20.03	21.10	1.279	50.0	1.0	0.06	0.974	1.246
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	DSI2	656000	3840	2	16.99	18.10	1.291			0.06	0.846	1.092
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	DSI2	656000	3840	Cover	16.99	18.10	1.291			0.01	0.926	1.195
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 5	DSI2	656000	3840	1	17.89	19.20	1.352			0.01	0.242	0.327
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 5	DSI2	656000	3840	1	17.85	19.20	1.365			-0.06	0.222	0.303
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 5	DSI2	656000	3840	1	17.89	19.20	1.352			0.09	0.214	0.290
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 5	DSI2	656000	3840	1	17.85	19.20	1.365			-0.10	0.219	0.300
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	DSI2	656000	3840	1	17.89	19.20	1.352			-0.09	0.956	1.293
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 5	DSI2	656000	3840	1	17.85	19.20	1.365			0.09	0.910	1.242
	FR1 n77	100M	BPSK	270	0	Left Cheek	0mm	Ant 5	DSI2	656000	3840	1	17.79	19.20	1.384			-0.05	0.898	1.242
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 5	DSI2	656000	3840	1	17.89	19.20	1.352			-0.19	0.658	0.889
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 5	DSI2	656000	3840	1	17.85	19.20	1.365			-0.01	0.593	0.810
	FR1 n77	100M	BPSK	270	0	Left Tilted	0mm	Ant 5	DSI2	656000	3840	1	17.79	19.20	1.384			0.17	0.636	0.881
	FR1 n77_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	DSI2	656000	3840	1	20.94	22.20	1.337	50.0	1.0	0.06	0.922	1.233
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	DSI2	656000	3840	2	17.89	19.20	1.352			0.03	0.826	1.117
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	DSI2	656000	3840	Cover	17.89	19.20	1.352			0.01	0.896	1.211
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI2	656000	3840	1	19.95	21.00	1.274			-0.13	0.269	0.343
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	DSI2	656000	3840	1	19.91	21.00	1.285			0.12	0.292	0.375
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI2	656000	3840	1	19.95	21.00	1.274			0.17	0.114	0.145
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 8	DSI2	656000	3840	1	19.91	21.00	1.285			-0.02	0.113	0.145
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	DSI2	656000	3840	1	19.95	21.00	1.274			-0.10	0.195	0.248
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 8	DSI2	656000	3840	1	19.91	21.00	1.285			-0.03	0.198	0.254
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI2	656000	3840	1	19.95	21.00	1.274			0.13	0.162	0.206
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 8	DSI2	656000	3840	1	19.91	21.00	1.285			-0.13	0.177	0.227
	FR1 n77_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	DSI2	656000	3840	1	22.95	24.00	1.274	50.0	1.0	0.03	0.299	0.381
	FR1 n77_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	DSI2	656000	3840	2	22.95	24.00	1.274	50.0	1.0	0.06	0.206	0.262
	FR1 n77_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	DSI2	656000	3840	Cover	22.95	24.00	1.274	50.0	1.0	0.01	0.262	0.334
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 4	DSI2	656000	3840	1	19.92	20.70	1.197			-0.17	0.659	0.788
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 4	DSI2	656000	3840	1	19.85	20.70	1.216			-0.00	0.643	0.782
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 4	DSI2	656000	3840	1	19.92	20.70	1.197			-0.17	0.843	1.009
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 4	DSI2	656000	3840	1	19.85	20.70	1.216			0.13	0.743	0.903
	FR1 n77	100M	BPSK	270	0	Right Tilted	0mm	Ant 4	DSI2	656000	3840	1	19.75	20.70	1.245			0.11	0.732	0.912
23	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI2	656000	3840	1	19.92	20.70	1.197			-0.03	1.080	1.293
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 4	DSI2	656000	3840	1	19.85	20.70	1.216			0.02	0.932	1.134
	FR1 n77	100M	BPSK	270	0	Left Cheek	0mm	Ant 4	DSI2	656000	3840	1	19.75	20.70	1.245			-0.02	0.864	1.076
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 4	DSI2	656000	3840	1	19.92	20.70	1.197			0.01	0.922	1.104
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 4	DSI2	656000	3840	1	19.85	20.70	1.216			0.05	0.764	0.929
	FR1 n77	100M	BPSK	270	0	Left Tilted	0mm	Ant 4	DSI2	656000	3840	1	19.75	20.70	1.245			-0.03	0.848	1.056
	FR1 n77_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI2	656000	3840	1	22.94	23.70	1.191	50.0	1.0	0.06	1.030	1.227
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI2	656000	3840	2	19.92	20.70	1.197			0.09	0.749	0.897
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DSI2	656000	3840	Cover	19.92	20.70	1.197			0.06	0.942	1.128

<MIMO SAR>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)
	FR1 n77 PC2	100M	BPSK	1	1	Right Cheek	0mm	Ant 7+5	DSI2	656000	3840	1	19.94	21.1	1.306	50.000	1	-0.08	0.950	1.241
	FR1 n77 PC2	100M	BPSK	135	69	Right Cheek	0mm	Ant 7+5	DSI2	656000	3840	1	19.92	21.1	1.314	50.000	1	0.05	0.765	1.005
	FR1 n77 PC2	100M	BPSK	270	0	Right Cheek	0mm	Ant 7+5	DSI2	656000	3840	1	19.84	21.1	1.336	50.000	1	0.06	0.818	1.093
	FR1 n77 PC2	100M	BPSK	1	1	Right Tilted	0mm	Ant 7+5	DSI2	656000	3840	1	19.94	21.1	1.306	50.000	1	-0.09	0.213	0.278
	FR1 n77 PC2	100M	BPSK	135	69	Right Tilted	0mm	Ant 7+5	DSI2	656000	3840	1	19.92	21.1	1.314	50.000	1	-0.08	0.134	0.176
	FR1 n77 PC2	100M	BPSK	1	1	Left Cheek	0mm	Ant 7+5	DSI2	656000	3840	1	19.94	21.1	1.306	50.000	1	0.13	0.516	0.674
	FR1 n77 PC2	100M	BPSK	135	69	Left Cheek	0mm	Ant 7+5	DSI2	656000	3840	1	19.92	21.1	1.314	50.000	1	0.12	0.445	0.585
	FR1 n77 PC2	100M	BPSK	1	1	Left Tilted	0mm	Ant 7+5	DSI2	656000	3840	1	19.94	21.1	1.306	50.000	1	0.03	0.286	0.374
	FR1 n77 PC2	100M	BPSK	135	69	Left Tilted	0mm	Ant 7+5	DSI2	656000	3840	1	19.92	21.1	1.314	50.000	1	0.18	0.301	0.396
	FR1 n77_PC1.5	100M	BPSK	1	1	Right Cheek	0mm	Ant 7+5	DSI2	656000	3840	1	22.98	24.1	1.294	25.000	1	0.16	0.960	1.242



<PA (Reference Designator)>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)	Note
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DS12	21100	2535	1	19.35	20	1.161	100	1.000	-0.01	0.070	0.081	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DS12	21350	2560	1	17.68	18.6	1.236	100	1.000	0.02	0.297	0.367	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DS12	21100	2535	1	21.17	22	1.211	100	1.000	0.02	0.080	0.097	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DS12	21100	2535	1	18.76	20	1.330	100	1.000	0.09	0.406	0.54	PA (Reference Designator)
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DS12	26340	1880	1	20.99	22	1.262	100	1.000	0.01	0.067	0.085	PA (Reference Designator)
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DS12	26140	1860	1	19.19	20	1.205	100	1.000	-0.02	0.406	0.489	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DS12	132322	1745	1	20.49	21	1.125	100	1.000	0.01	0.027	0.03	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DS12	132072	1720	1	15.68	17.1	1.387	100	1.000	0.08	0.378	0.524	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DS12	132322	1745	1	20.97	22	1.268	100	1.000	-0.02	0.040	0.051	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	DS12	132322	1745	1	19.15	20	1.216	100	1.000	-0.07	0.506	0.615	PA (Reference Designator)
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DS12	56640	3690	1	18.81	20.3	1.409	62.9	1.006	-0.05	0.546	0.774	PA (Reference Designator)
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	DS12	55340	3560	1	19.95	20.8	1.216	62.9	1.006	-0.07	0.419	0.513	PA (Reference Designator)
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 1	DS12	507000	2535	1	17.38	19	1.452	100	1.000	-0.14	0.477	0.693	PA (Reference Designator)
	FR1 n25	40M	BPSK	108	54	Right Cheek	0mm	Ant 2	DS12	376500	1882.5	1	21.49	23	1.416	100	1.000	-0.07	0.066	0.093	PA (Reference Designator)
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 2	DS12	349000	1745	1	22.02	23	1.253	100	1.000	-0.01	0.055	0.069	PA (Reference Designator)
	FR1 n41	100M	BPSK	1	1	Left Cheek	0mm	Ant 0	DS12	518598	2592.99	1	22.19	23	1.205	100	1.000	0.05	0.100	0.121	PA (Reference Designator)
	FR1 n41	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	DS12	518598	2592.99	1	17.16	18	1.213	100	1.000	-0.09	0.650	0.788	PA (Reference Designator)
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	DS12	656000	3840	1	17.6	18.1	1.122	100	1.000	-0.09	0.986	1.106	PA (Reference Designator)
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	DS12	656000	3840	1	17.88	19.2	1.355	100	1.000	0.03	0.877	1.188	PA (Reference Designator)
	FR1 n77_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	DS12	656000	3840	1	22.63	24	1.371	50	1.000	-0.08	0.263	0.361	PA (Reference Designator)
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 4	DS12	656000	3840	1	19.39	20.7	1.352	100	1.000	0.02	0.796	1.076	PA (Reference Designator)

【WLAN 2.4GHz_5GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 6+3(6)	Head Standalone	1	2412	1	17.21	18.50	1.346	97.03	1.031	-0.10	0.551	0.765
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 6+3(6)	Head Standalone	1	2412	1	17.21	18.50	1.346	97.03	1.031	0.07	0.393	0.545
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+3(6)	Head Standalone	1	2412	1	17.21	18.50	1.346	97.03	1.031	0.18	0.895	1.242
24	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+3(6)	Head Standalone	6	2437	1	16.76	18.50	1.493	97.03	1.031	0.17	0.936	1.441
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6+3(6)	Head Standalone	1	2412	1	17.21	18.50	1.346	97.03	1.031	-0.15	0.782	1.085
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6+3(6)	Head Standalone	6	2437	1	16.76	18.50	1.493	97.03	1.031	0.01	0.685	1.054
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+3(6)	Head Standalone	6	2437	2	16.76	18.50	1.493	97.03	1.031	0.01	0.811	1.248
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+3(6)	Head Standalone	6	2437	Cover	16.76	18.50	1.493	97.03	1.031	0.05	0.896	1.379
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+3(3)	Head Standalone	11	2462	1	16.91	18.50	1.442	97.03	1.031	0.01	0.870	1.293
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6+3(3)	Head Standalone	6	2437	1	16.96	18.50	1.426	100.0	1.0	0.04	0.832	1.186
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 5+4(5)	Head Standalone	50	5250	1	14.89	16.50	1.449	100.0	1.0	0.05	0.317	0.459
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 5+4(5)	Head Standalone	50	5250	1	14.89	16.50	1.449	100.0	1.0	-0.03	0.378	0.548
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4(5)	Head Standalone	50	5250	1	14.89	16.50	1.449	100.0	1.0	0.03	0.635	0.920
25	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+4(5)	Head Standalone	50	5250	1	14.89	16.50	1.449	100.0	1.0	0.02	0.807	1.169
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+4(5)	Head Standalone	50	5250	2	14.89	16.50	1.449	100.0	1.0	0.06	0.632	0.916
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+4(5)	Head Standalone	50	5250	Cover	14.89	16.50	1.449	100.0	1.0	0.01	0.748	1.084
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 5+4(4)	Head Standalone	114	5570	1	15.06	16.50	1.393	100.0	1.0	0.01	0.323	0.450
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 5+4(4)	Head Standalone	114	5570	1	15.06	16.50	1.393	100.0	1.0	0.03	0.416	0.579
26	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4(4)	Head Standalone	114	5570	1	15.06	16.50	1.393	100.0	1.0	-0.06	0.817	1.138
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+4(4)	Head Standalone	114	5570	1	15.06	16.50	1.393	100.0	1.0	0.02	0.645	0.898
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4(4)	Head Standalone	114	5570	2	15.06	16.50	1.393	100.0	1.0	0.09	0.666	0.928
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+4(4)	Head Standalone	114	5570	Cover	15.06	16.50	1.393	100.0	1.0	0.01	0.748	1.042
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+4(4)	Head Standalone	155	5775	1	15.08	16.50	1.387	100.0	1.0	0.01	0.276	0.383
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+4(4)	Head Standalone	155	5775	1	15.08	16.50	1.387	100.0	1.0	-0.01	0.322	0.447
27	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+4(4)	Head Standalone	155	5775	1	15.08	16.50	1.387	100.0	1.0	-0.08	0.764	1.060
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+4(4)	Head Standalone	155	5775	1	15.08	16.50	1.387	100.0	1.0	0.01	0.606	0.841
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+4(4)	Head Standalone	155	5775	2	15.08	16.50	1.387	100.0	1.0	0.09	0.616	0.854
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+4(4)	Head Standalone	155	5775	Cover	15.08	16.50	1.387	100.0	1.0	0.05	0.711	0.986



【WLAN 6GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m ²)
	WLAN6GHz	802.11be-EHT320 MCS0	Right Cheek	0mm	Ant 5+4(4)	Head Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	0.08	0.439	0.630	3.480
	WLAN6GHz	802.11be-EHT320 MCS0	Right Tilted	0mm	Ant 5+4(4)	Head Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	0.01	0.481	0.690	3.530
	WLAN6GHz	802.11be-EHT320 MCS0	Left Cheek	0mm	Ant 5+4(4)	Head Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	-0.18	0.536	0.769	3.570
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 5+4(4)	Head Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	0.10	0.570	0.818	3.930
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 5+4(4)	Head Standalone	31	6105	1	13.68	15.50	1.521	100.0	1.0	-0.08	0.681	1.036	4.620
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 5+4(4)	Head Standalone	63	6265	1	13.33	15.00	1.469	100.0	1.0	-0.08	0.703	1.033	4.890
28	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 5+4(4)	Head Standalone	95	6425	1	14.66	16.50	1.528	100.0	1.0	-0.05	0.704	1.076	4.920
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 5+4(4)	Head Standalone	127	6585	1	13.25	15.00	1.496	100.0	1.0	0.10	0.532	0.796	4.060
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 5+4(4)	Head Standalone	191	6905	1	15.48	17.00	1.419	100.0	1.0	0.03	0.478	0.678	3.280
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 5+4(4)	Head Standalone	95	6425	2	14.66	16.50	1.528	100.0	1.0	0.03	0.588	0.898	4.010
	WLAN6GHz	802.11be-EHT320 MCS0	Left Tilted	0mm	Ant 5+4(4)	Head Standalone	95	6425	Cover	14.66	16.50	1.528	100.0	1.0	0.01	0.645	0.986	4.550

【Bluetooth SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	BT6.0 ASK 1Mbps	Right Cheek	0mm	Ant 6	Head Standalone	38	2440	1	19.88	21.00	1.294	100.0	1.0	0.10	0.503	0.651
	Bluetooth	BT6.0 ASK 1Mbps	Right Tilted	0mm	Ant 6	Head Standalone	38	2440	1	19.88	21.00	1.294	100.0	1.0	0.12	0.128	0.166
29	Bluetooth	BT6.0 ASK 1Mbps	Left Cheek	0mm	Ant 6	Head Standalone	38	2440	1	19.88	21.00	1.294	100.0	1.0	0.08	0.996	1.289
	Bluetooth	BT6.0 ASK 1Mbps	Left Cheek	0mm	Ant 6	Head Standalone	2	2404	1	18.12	20.00	1.542	100.0	1.0	0.08	0.628	0.968
	Bluetooth	BT6.0 ASK 1Mbps	Left Cheek	0mm	Ant 6	Head Standalone	76	2478	1	18.49	20.00	1.416	100.0	1.0	-0.17	0.638	0.903
	Bluetooth	BT6.0 ASK 1Mbps	Left Tilted	0mm	Ant 6	Head Standalone	38	2440	1	19.88	21.00	1.294	100.0	1.0	-0.03	0.293	0.379
	Bluetooth	BT6.0 ASK 1Mbps	Right Cheek	0mm	Ant 3	Head Standalone	38	2440	1	16.71	18	1.346	100	1.000	-0.07	0.111	0.149
	Bluetooth	BT6.0 ASK 1Mbps	Right Tilted	0mm	Ant 3	Head Standalone	38	2440	1	16.71	18	1.346	100	1.000	0.05	0.144	0.194
	Bluetooth	BT6.0 ASK 1Mbps	Left Cheek	0mm	Ant 3	Head Standalone	38	2440	1	16.71	18	1.346	100	1.000	-0.11	0.104	0.14
	Bluetooth	BT6.0 ASK 1Mbps	Left Tilted	0mm	Ant 3	Head Standalone	38	2440	1	16.71	18	1.346	100	1.000	0.08	0.263	0.354

16.2 Hotspot SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
30	GSM850	GPRS 3 Tx slots	Front	5mm	Ant 0	DSI7	189	836.4	1	28.60	29.50	1.23	-0.07	0.593	0.730
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI7	189	836.4	1	28.60	29.50	1.23	-0.06	0.774	0.952
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI7	128	824.2	1	28.48	29.50	1.265	-0.15	0.768	0.971
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI7	251	848.8	1	28.53	29.50	1.25	0.03	0.946	1.182
	GSM850	GPRS 3 Tx slots	Left Side	5mm	Ant 0	DSI7	189	836.4	1	28.60	29.50	1.23	0.14	0.692	0.851
	GSM850	GPRS 3 Tx slots	Left Side	5mm	Ant 0	DSI7	128	824.2	1	28.48	29.50	1.265	0.16	0.641	0.811
	GSM850	GPRS 3 Tx slots	Left Side	5mm	Ant 0	DSI7	251	848.8	1	28.53	29.50	1.25	-0.06	0.771	0.964
	GSM850	GPRS 3 Tx slots	Right Side	5mm	Ant 0	DSI7	189	836.4	1	28.60	29.50	1.23	-0.07	0.098	0.121
	GSM850	GPRS 3 Tx slots	Bottom Side	5mm	Ant 0	DSI7	189	836.4	1	28.60	29.50	1.23	-0.13	0.496	0.610
	GSM850	GPRS 3 Tx slots	Front	5mm	Ant 1	DSI7	189	836.4	1	28.62	30.00	1.374	-0.14	0.534	0.734
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI7	189	836.4	1	28.62	30.00	1.374	-0.01	0.725	0.996
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI7	128	824.2	1	28.54	30.00	1.4	-0.12	0.593	0.830
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI7	251	848.8	1	28.46	30.00	1.426	-0.13	0.676	0.963
	GSM850	GPRS 3 Tx slots	Left Side	5mm	Ant 1	DSI7	189	836.4	1	28.62	30.00	1.374	-0.18	0.539	0.740
	GSM850	GPRS 3 Tx slots	Right Side	5mm	Ant 1	DSI7	189	836.4	1	28.62	30.00	1.374	0.11	0.086	0.119
	GSM850	GPRS 3 Tx slots	Top Side	5mm	Ant 1	DSI7	189	836.4	1	28.62	30.00	1.374	-0.17	0.669	0.919
31	GSM850	GPRS 3 Tx slots	Top Side	5mm	Ant 1	DSI7	128	824.2	1	28.54	30.00	1.4	0.01	0.536	0.750
	GSM850	GPRS 3 Tx slots	Top Side	5mm	Ant 1	DSI7	251	848.8	1	28.46	30.00	1.426	-0.03	0.618	0.881
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 1	DSI7	661	1880	1	21.36	22.10	1.186	0.04	0.692	0.820
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 1	DSI7	512	1850.2	1	21.31	22.10	1.199	0.10	0.599	0.719
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 1	DSI7	810	1909.8	1	21.33	22.10	1.194	-0.16	0.619	0.740
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 1	DSI7	661	1880	1	21.36	22.10	1.186	-0.09	1.090	1.293
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 1	DSI7	512	1850.2	1	21.31	22.10	1.199	-0.18	0.929	1.114
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 1	DSI7	810	1909.8	1	21.33	22.10	1.194	0.15	1.010	1.206
	GSM1900	GPRS 4 Tx slots	Left Side	5mm	Ant 1	DSI7	661	1880	1	21.36	22.10	1.186	0.18	0.720	0.854
	GSM1900	GPRS 4 Tx slots	Left Side	5mm	Ant 1	DSI7	512	1850.2	1	21.31	22.10	1.199	0.16	0.668	0.801
	GSM1900	GPRS 4 Tx slots	Left Side	5mm	Ant 1	DSI7	810	1909.8	1	21.33	22.10	1.194	0.14	0.821	0.980
	GSM1900	GPRS 4 Tx slots	Right Side	5mm	Ant 1	DSI7	661	1880	1	21.36	22.10	1.186	-0.16	0.029	0.035
	GSM1900	GPRS 4 Tx slots	Top Side	5mm	Ant 1	DSI7	661	1880	1	21.36	22.10	1.186	0.15	0.752	0.892
	GSM1900	GPRS 4 Tx slots	Top Side	5mm	Ant 1	DSI7	512	1850.2	1	21.31	22.10	1.199	0.16	0.627	0.752
	GSM1900	GPRS 4 Tx slots	Top Side	5mm	Ant 1	DSI7	810	1909.8	1	21.33	22.10	1.194	-0.04	0.776	0.927
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 2	DSI7	661	1880	1	22.66	23.70	1.271	0.16	0.765	0.972
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 2	DSI7	512	1850.2	1	22.61	23.70	1.285	-0.07	0.570	0.733
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 2	DSI7	810	1909.8	1	22.60	23.70	1.288	0.10	0.786	1.012
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 2	DSI7	661	1880	1	22.66	23.70	1.271	0.09	0.884	1.123
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 2	DSI7	512	1850.2	1	22.61	23.70	1.285	0.02	0.676	0.869
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 2	DSI7	810	1909.8	1	22.60	23.70	1.288	-0.13	0.849	1.093
	GSM1900	GPRS 4 Tx slots	Left Side	5mm	Ant 2	DSI7	661	1880	1	22.66	23.70	1.271	-0.16	0.353	0.448
	GSM1900	GPRS 4 Tx slots	Right Side	5mm	Ant 2	DSI7	661	1880	1	22.66	23.70	1.271	-0.09	0.473	0.602
	GSM1900	GPRS 4 Tx slots	Bottom Side	5mm	Ant 2	DSI7	661	1880	1	22.66	23.70	1.271	0.01	1.010	1.284
	GSM1900	GPRS 4 Tx slots	Bottom Side	5mm	Ant 2	DSI7	512	1850.2	1	22.61	23.70	1.285	0.00	0.884	1.136
	GSM1900	GPRS 4 Tx slots	Bottom Side	5mm	Ant 2	DSI7	810	1909.8	1	22.60	23.70	1.288	0.06	0.891	1.147
	GSM1900	GPRS 4 Tx slots	Bottom Side	5mm	Ant 2	DSI7	661	1880	2	22.66	23.70	1.271	0.06	0.846	1.075
	GSM1900	GPRS 4 Tx slots	Bottom Side	5mm	Ant 2	DSI7	661	1880	Cover	22.66	23.70	1.271	0.01	0.965	1.227



【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
32	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 1	DS17	9400	1880	1	17.57	18.40	1.211	-0.14	0.628	0.761
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DS17	9400	1880	1	17.57	18.40	1.211	0.05	1.010	1.223
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DS17	9262	1852.4	1	17.55	18.40	1.216	0.01	1.050	1.277
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DS17	9538	1907.6	1	17.54	18.40	1.219	-0.01	0.786	0.958
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	Ant 1	DS17	9400	1880	1	17.57	18.40	1.211	0.12	0.731	0.886
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	Ant 1	DS17	9262	1852.4	1	17.55	18.40	1.216	-0.16	0.716	0.871
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	Ant 1	DS17	9538	1907.6	1	17.54	18.40	1.219	-0.06	0.610	0.744
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	Ant 1	DS17	9400	1880	1	17.57	18.40	1.211	-0.17	0.036	0.044
	WCDMA II	RMC 12.2Kbps	Top Side	5mm	Ant 1	DS17	9400	1880	1	17.57	18.40	1.211	0.13	0.649	0.786
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 2	DS17	9400	1880	1	19.42	20.30	1.225	0.00	0.518	0.635
33	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DS17	9400	1880	1	19.42	20.30	1.225	0.13	0.581	0.712
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	Ant 2	DS17	9400	1880	1	19.42	20.30	1.225	-0.02	0.198	0.242
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	Ant 2	DS17	9400	1880	1	19.42	20.30	1.225	-0.15	0.251	0.308
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DS17	9400	1880	1	19.42	20.30	1.225	-0.03	0.763	0.935
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DS17	9262	1852.4	1	19.35	20.30	1.245	-0.06	0.986	1.228
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DS17	9538	1907.6	1	19.38	20.30	1.236	-0.04	1.030	1.273
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 1	DS17	1413	1732.6	1	17.59	18.60	1.262	-0.06	0.599	0.755
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DS17	1413	1732.6	1	17.59	18.60	1.262	0.16	1.000	1.262
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DS17	1312	1712.4	1	17.56	18.60	1.271	-0.06	1.010	1.284
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DS17	1513	1752.6	1	17.51	18.60	1.285	0.03	0.970	1.246
34	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	Ant 1	DS17	1413	1732.6	1	17.59	18.60	1.262	0.18	0.688	0.868
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	Ant 1	DS17	1312	1712.4	1	17.56	18.60	1.271	-0.12	0.728	0.925
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	Ant 1	DS17	1513	1752.6	1	17.51	18.60	1.285	0.05	0.645	0.828
	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	Ant 1	DS17	1413	1732.6	1	17.59	18.60	1.262	0.07	0.017	0.021
	WCDMA IV	RMC 12.2Kbps	Top Side	5mm	Ant 1	DS17	1413	1732.6	1	17.59	18.60	1.262	-0.10	0.581	0.734
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 2	DS17	1413	1732.6	1	18.95	19.70	1.189	0.17	0.646	0.768
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DS17	1413	1732.6	1	18.95	19.70	1.189	-0.16	0.721	0.857
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DS17	1312	1712.4	1	18.90	19.70	1.202	-0.13	0.708	0.851
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DS17	1513	1752.6	1	18.92	19.70	1.197	0.01	0.705	0.843
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	Ant 2	DS17	1413	1732.6	1	18.95	19.70	1.189	-0.11	0.155	0.184
35	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	Ant 2	DS17	1413	1732.6	1	18.95	19.70	1.189	0.15	0.322	0.383
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DS17	1413	1732.6	1	18.95	19.70	1.189	0.10	1.040	1.237
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DS17	1312	1712.4	1	18.90	19.70	1.202	-0.16	1.020	1.226
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DS17	1513	1752.6	1	18.92	19.70	1.197	-0.03	1.070	1.281
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 0	DS17	4182	836.4	1	23.10	24.00	1.23	-0.02	0.693	0.852
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 0	DS17	4132	826.4	1	23.05	24.00	1.245	0.08	0.658	0.820
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 0	DS17	4233	846.6	1	23.03	24.00	1.25	0.19	0.672	0.840
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DS17	4182	836.4	1	23.10	24.00	1.23	-0.06	0.947	1.165
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DS17	4132	826.4	1	23.05	24.00	1.245	-0.04	0.895	1.114
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DS17	4233	846.6	1	23.03	24.00	1.25	0.10	0.897	1.121
36	WCDMA V	RMC 12.2Kbps	Left Side	5mm	Ant 0	DS17	4182	836.4	1	23.10	24.00	1.23	-0.01	0.714	0.878
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	Ant 0	DS17	4132	826.4	1	23.05	24.00	1.245	0.09	0.688	0.857
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	Ant 0	DS17	4233	846.6	1	23.03	24.00	1.25	-0.13	0.799	0.998
	WCDMA V	RMC 12.2Kbps	Right Side	5mm	Ant 0	DS17	4182	836.4	1	23.10	24.00	1.23	-0.08	0.101	0.124
	WCDMA V	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DS17	4182	836.4	1	23.10	24.00	1.23	-0.09	0.560	0.689
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	DS17	4182	836.4	1	23.22	24.00	1.197	-0.12	0.658	0.787
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DS17	4182	836.4	1	23.22	24.00	1.197	0.16	1.040	1.245
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DS17	4132	826.4	1	23.15	24.00	1.216	-0.11	0.984	1.196
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DS17	4233	846.6	1	23.18	24.00	1.208	-0.06	1.000	1.208
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	Ant 1	DS17	4182	836.4	1	23.22	24.00	1.197	-0.00	0.935	1.119
37	WCDMA V	RMC 12.2Kbps	Left Side	5mm	Ant 1	DS17	4132	826.4	1	23.15	24.00	1.216	-0.02	0.974	1.185
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	Ant 1	DS17	4233	846.6	1	23.18	24.00	1.208	-0.13	0.869	1.049
	WCDMA V	RMC 12.2Kbps	Right Side	5mm	Ant 1	DS17	4182	836.4	1	23.22	24.00	1.197	-0.01	0.113	0.136
	WCDMA V	RMC 12.2Kbps	Top Side	5mm	Ant 1	DS17	4182	836.4	1	23.22	24.00	1.197	-0.16	0.760	0.910
	WCDMA V	RMC 12.2Kbps	Top Side	5mm	Ant 1	DS17	4132	826.4	1	23.15	24.00	1.216	0.08	0.679	0.826
	WCDMA V	RMC 12.2Kbps	Top Side	5mm	Ant 1	DS17	4233	846.6	1	23.18	24.00	1.208	-0.10	0.758	0.916



[LTE SAR]

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 0	DSI7	21100	2535	1	20.22	21.40	1.312			0.12	0.331	0.434
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 0	DSI7	21100	2535	1	20.20	21.40	1.318			0.01	0.216	0.285
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI7	21100	2535	1	20.22	21.40	1.312			-0.19	0.357	0.468
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 0	DSI7	21100	2535	1	20.20	21.40	1.318			-0.02	0.220	0.290
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	21100	2535	1	20.22	21.40	1.312			-0.18	0.627	0.822
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	20850	2510	1	20.19	21.40	1.321			-0.01	0.970	1.281
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	21350	2560	1	20.16	21.40	1.33			-0.16	0.866	1.151
	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	Ant 0	DSI7	21100	2535	1	20.20	21.40	1.318			0.18	0.388	0.511
	LTE Band 7	20M	QPSK	100	0	Left Side	5mm	Ant 0	DSI7	21350	2560	1	20.14	21.40	1.337			0.15	0.386	0.516
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 0	DSI7	21100	2535	1	20.22	21.40	1.312			0.05	0.040	0.053
	LTE Band 7	20M	QPSK	50	0	Right Side	5mm	Ant 0	DSI7	21100	2535	1	20.20	21.40	1.318			-0.03	0.032	0.042
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI7	21100	2535	1	20.22	21.40	1.312			-0.04	0.384	0.503
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	Ant 0	DSI7	21100	2535	1	20.20	21.40	1.318			0.16	0.240	0.316
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	20850+21048	2510+2529.8	1	20.06	21.40	1.361			0.06	0.857	1.166
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 1	DSI7	21100	2535	1	18.76	19.90	1.3			-0.10	0.598	0.778
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 1	DSI7	21100	2535	1	18.73	19.90	1.309			-0.10	0.380	0.498
35	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	21100	2535	1	18.76	19.90	1.3			0.03	0.997	1.296
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	20850	2510	1	18.72	19.90	1.312			0.18	0.971	1.274
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	21350	2560	1	18.70	19.90	1.318			0.05	0.939	1.238
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	21100	2535	1	18.73	19.90	1.309			-0.02	0.627	0.821
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	20850	2510	1	18.72	19.90	1.312			0.04	0.632	0.830
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	21350	2560	1	18.69	19.90	1.321			-0.08	0.617	0.814
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 1	DSI7	21100	2535	1	18.69	19.90	1.321			0.08	0.622	0.821
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	21100	2535	1	18.76	19.90	1.3			0.01	0.963	1.252
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	20850	2510	1	18.72	19.90	1.312			-0.13	0.863	1.133
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	21350	2560	1	18.70	19.90	1.318			0.05	0.979	1.290
	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI7	21100	2535	1	18.73	19.90	1.309			-0.18	0.601	0.786
	LTE Band 7	20M	QPSK	100	0	Left Side	5mm	Ant 1	DSI7	21100	2535	1	18.69	19.90	1.321			0.11	0.596	0.787
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 1	DSI7	21100	2535	1	18.76	19.90	1.3			-0.13	0.031	0.041
	LTE Band 7	20M	QPSK	50	0	Right Side	5mm	Ant 1	DSI7	21100	2535	1	18.73	19.90	1.309			0.00	0.019	0.025
	LTE Band 7	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI7	21100	2535	1	18.76	19.90	1.3			-0.17	0.601	0.781
	LTE Band 7	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI7	21100	2535	1	18.73	19.90	1.309			0.14	0.380	0.498
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	21100+20902	2535+2515.2	1	18.66	19.90	1.33			0.06	0.875	1.164
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 2	DSI7	21100	2535	1	18.36	19.80	1.393			0.14	0.436	0.607
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 2	DSI7	21100	2535	1	18.31	19.80	1.409			0.01	0.268	0.378
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	21100	2535	1	18.36	19.80	1.393			0.14	0.717	0.999
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	20850	2510	1	18.34	19.80	1.4			0.04	0.648	0.907
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	21350	2560	1	18.33	19.80	1.403			-0.13	0.754	1.057
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	DSI7	21100	2535	1	18.31	19.80	1.409			-0.02	0.457	0.644
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 2	DSI7	21100	2535	1	18.21	19.80	1.442			0.19	0.457	0.659
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI7	21100	2535	1	18.36	19.80	1.393			-0.06	0.120	0.167
	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI7	21100	2535	1	18.31	19.80	1.409			0.18	0.073	0.103
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 2	DSI7	21100	2535	1	18.36	19.80	1.393			0.15	0.154	0.214
	LTE Band 7	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI7	21100	2535	1	18.31	19.80	1.409			0.04	0.099	0.139
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	21100	2535	1	18.36	19.80	1.393			-0.06	0.844	1.176
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	20850	2510	1	18.34	19.80	1.4			-0.13	0.732	1.025
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	21350	2560	1	18.33	19.80	1.403			-0.01	0.914	1.282
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI7	21100	2535	1	18.31	19.80	1.409			-0.06	0.539	0.759
	LTE Band 7	20M	QPSK	100	0	Bottom Side	5mm	Ant 2	DSI7	21100	2535	1	18.21	19.80	1.442			0.14	0.542	0.781
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	21350+21152	2560+2540.2	1	18.19	19.80	1.449			0.03	0.816	1.182
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 6	DSI7	21100	2535	1	19.36	20.10	1.186			-0.02	0.461	0.546
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 6	DSI7	21100	2535	1	19.33	20.10	1.194			0.18	0.290	0.346
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 6	DSI7	21100	2535	1	19.36	20.10	1.186			0.08	0.511	0.606
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 6	DSI7	21100	2535	1	19.33	20.10	1.194			-0.19	0.326	0.389
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 6	DSI7	21100	2535	1	19.36	20.10	1.186			0.06	0.003	0.003
	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	Ant 6	DSI7	21100	2535	1	19.33	20.10	1.194			0.03	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	21100	2535	1	19.36	20.10	1.186			0.02	1.090	1.293
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	20850	2510	1	19.31	20.10	1.199			0.02	1.030	1.235
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	21350	2560	1	19.33	20.10	1.194			0.07	0.999	1.193
	LTE Band 7	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI7	21100	2535	1	19.33	20.10	1.194			-0.05	0.670	0.800
	LTE Band 7	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI7	20850	2510	1	19.26	20.10	1.213			0.10	0.648	0.786
	LTE Band 7	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI7	21350	2560	1	19.20	20.10	1.23			-0.17	0.657	0.808
	LTE Band 7	20M	QPSK	100	0	Right Side	5mm	Ant 6	DSI7	21100	2535	1	19.25	20.10	1.216			-0.05	0.670	0.815
	LTE Band 7	20M	QPSK	1	0	Top Side	5mm	Ant 6	DSI7	21100	2535	1	19.36	20.10	1.186			-0.14	0.121	0.143
	LTE Band 7	20M	QPSK	50	0	Top Side	5mm	Ant 6	DSI7	21100	2535	1	19.33	20.10	1.194			0.16	0.077	0.092
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	21100+20902	2535+2515.2	1	19.25	20.10	1.216			0.06	0.948	1.153
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	21100	2535	2	19.36	20.10	1.186			0.06	0.819	0.971
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	21100	2535	Cover	19.36	20.10	1.186			0.01	0.958	1.136
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 0	DSI7	23095	707.5	1	22.30	24.00	1.479			0.14	0.553	0.818



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	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 0	DSI7	23095	707.5	1	21.28	23.00	1.486			-0.08	0.333	0.494
	LTE Band 12	10M	QPSK	50	0	Front	5mm	Ant 0	DSI7	23095	707.5	1	21.16	23.00	1.528			0.10	0.317	0.484
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 0	DSI7	23095	707.5	1	22.30	24.00	1.479			-0.02	0.744	1.100
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 0	DSI7	23095	707.5	1	21.28	23.00	1.486			-0.01	0.454	0.675
	LTE Band 12	10M	QPSK	50	0	Back	5mm	Ant 0	DSI7	23095	707.5	1	21.16	23.00	1.528			-0.04	0.452	0.690
36	LTE Band 12	10M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	23095	707.5	1	22.30	24.00	1.479			-0.01	0.834	1.233
	LTE Band 12	10M	QPSK	25	0	Left Side	5mm	Ant 0	DSI7	23095	707.5	1	21.28	23.00	1.486			0.06	0.505	0.750
	LTE Band 12	10M	QPSK	50	0	Left Side	5mm	Ant 0	DSI7	23095	707.5	1	21.16	23.00	1.528			-0.14	0.494	0.755
	LTE Band 12	10M	QPSK	1	0	Right Side	5mm	Ant 0	DSI7	23095	707.5	1	22.30	24.00	1.479			-0.14	0.099	0.147
	LTE Band 12	10M	QPSK	25	0	Right Side	5mm	Ant 0	DSI7	23095	707.5	1	21.28	23.00	1.486			-0.03	0.060	0.089
	LTE Band 12	10M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI7	23095	707.5	1	22.30	24.00	1.479			0.02	0.542	0.801
	LTE Band 12	10M	QPSK	25	0	Bottom Side	5mm	Ant 0	DSI7	23095	707.5	1	21.28	23.00	1.486			-0.19	0.328	0.487
	LTE Band 12	10M	QPSK	50	0	Bottom Side	5mm	Ant 0	DSI7	23095	707.5	1	21.16	23.00	1.528			-0.04	0.306	0.468
	LTE Band 12	10M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	23095	707.5	2	22.30	24.00	1.479			0.06	0.711	1.052
	LTE Band 12	10M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	23095	707.5	Cover	22.30	24.00	1.479			0.01	0.803	1.188
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 1	DSI7	23095	707.5	1	22.78	24.00	1.324			-0.06	0.412	0.546
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 1	DSI7	23095	707.5	1	21.85	23.00	1.303			-0.13	0.253	0.330
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	DSI7	23095	707.5	1	22.78	24.00	1.324			0.04	0.748	0.990
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 1	DSI7	23095	707.5	1	21.85	23.00	1.303			0.15	0.466	0.607
	LTE Band 12	10M	QPSK	50	0	Back	5mm	Ant 1	DSI7	23095	707.5	1	21.68	23.00	1.355			-0.17	0.458	0.621
	LTE Band 12	10M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	23095	707.5	1	22.78	24.00	1.324			0.03	0.550	0.728
	LTE Band 12	10M	QPSK	25	0	Left Side	5mm	Ant 1	DSI7	23095	707.5	1	21.85	23.00	1.303			0.01	0.339	0.442
	LTE Band 12	10M	QPSK	1	0	Right Side	5mm	Ant 1	DSI7	23095	707.5	1	22.78	24.00	1.324			0.18	0.114	0.152
	LTE Band 12	10M	QPSK	25	0	Right Side	5mm	Ant 1	DSI7	23095	707.5	1	21.85	23.00	1.303			0.04	0.070	0.091
	LTE Band 12	10M	QPSK	1	0	Top Side	5mm	Ant 1	DSI7	23095	707.5	1	22.78	24.00	1.324			-0.15	0.691	0.915
	LTE Band 12	10M	QPSK	25	0	Top Side	5mm	Ant 1	DSI7	23095	707.5	1	21.85	23.00	1.303			-0.12	0.419	0.546
	LTE Band 12	10M	QPSK	50	0	Top Side	5mm	Ant 1	DSI7	23095	707.5	1	21.68	23.00	1.355			0.03	0.398	0.539
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 0	DSI7	23230	782	1	22.23	24.00	1.503			0.04	0.523	0.786
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 0	DSI7	23230	782	1	21.28	23.00	1.486			0.06	0.333	0.495
37	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 0	DSI7	23230	782	1	22.23	24.00	1.503			-0.14	0.754	1.133
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 0	DSI7	23230	782	1	21.28	23.00	1.486			0.15	0.482	0.717
	LTE Band 13	10M	QPSK	50	0	Back	5mm	Ant 0	DSI7	23230	782	1	21.19	23.00	1.517			-0.10	0.480	0.729
	LTE Band 13	10M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	23230	782	1	22.23	24.00	1.503			-0.04	0.726	1.091
	LTE Band 13	10M	QPSK	25	0	Left Side	5mm	Ant 0	DSI7	23230	782	1	21.28	23.00	1.486			0.13	0.462	0.686
	LTE Band 13	10M	QPSK	50	0	Left Side	5mm	Ant 0	DSI7	23230	782	1	21.19	23.00	1.517			0.15	0.460	0.697
	LTE Band 13	10M	QPSK	1	0	Right Side	5mm	Ant 0	DSI7	23230	782	1	22.23	24.00	1.503			0.01	0.070	0.105
	LTE Band 13	10M	QPSK	25	0	Right Side	5mm	Ant 0	DSI7	23230	782	1	21.28	23.00	1.486			-0.12	0.046	0.068
	LTE Band 13	10M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI7	23230	782	1	22.23	24.00	1.503			-0.03	0.461	0.692
	LTE Band 13	10M	QPSK	25	0	Bottom Side	5mm	Ant 0	DSI7	23230	782	1	21.28	23.00	1.486			0.00	0.303	0.450
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 0	DSI7	26340	1880	1	19.98	21.00	1.265			-0.08	0.557	0.705
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 0	DSI7	26340	1880	1	19.92	21.00	1.282			-0.17	0.336	0.431
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 0	DSI7	26340	1880	1	19.98	21.00	1.265			-0.06	0.687	0.869
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 0	DSI7	26140	1860	1	19.91	21.00	1.285			-0.05	0.652	0.837
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 0	DSI7	26590	1905	1	19.96	21.00	1.271			0.09	0.796	1.012
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 0	DSI7	26340	1880	1	19.92	21.00	1.282			0.17	0.429	0.550
	LTE Band 25	20M	QPSK	100	0	Back	5mm	Ant 0	DSI7	26340	1880	1	19.85	21.00	1.303			0.12	0.434	0.566
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	26340	1880	1	19.98	21.00	1.265			0.04	0.950	1.202
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	26140	1860	1	19.91	21.00	1.285			0.06	0.980	1.259
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	26590	1905	1	19.96	21.00	1.271			-0.06	1.000	1.271
	LTE Band 25	20M	QPSK	50	0	Left Side	5mm	Ant 0	DSI7	26340	1880	1	19.92	21.00	1.282			0.15	0.592	0.759
	LTE Band 25	20M	QPSK	100	0	Left Side	5mm	Ant 0	DSI7	26340	1880	1	19.85	21.00	1.303			-0.06	0.597	0.778
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 0	DSI7	26340	1880	1	19.98	21.00	1.265			-0.07	0.030	0.038
	LTE Band 25	20M	QPSK	50	0	Right Side	5mm	Ant 0	DSI7	26340	1880	1	19.92	21.00	1.282			0.06	0.022	0.028
	LTE Band 25	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI7	26340	1880	1	19.98	21.00	1.265			0.04	0.142	0.180
	LTE Band 25	20M	QPSK	50	0	Bottom Side	5mm	Ant 0	DSI7	26340	1880	1	19.92	21.00	1.282			-0.17	0.091	0.116
	LTE Band 2	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	19100+18902	1900+1880.2	1	19.73	21.00	1.34			0.03	0.849	1.138
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	26590	1905	2	19.96	21.00	1.271			0.01	0.849	1.079
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	26590	1905	Cover	19.96	21.00	1.271			0.05	0.955	1.214
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 1	DSI7	26340	1880	1	17.02	17.80	1.197			-0.17	0.624	0.747
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 1	DSI7	26340	1880	1	16.97	17.80	1.211			-0.02	0.403	0.488
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	26340	1880	1	17.02	17.80	1.197			0.19	1.010	1.209
38	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	26140	1860	1	16.98	17.80	1.208			-0.06	1.070	1.293
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	26590	1905	1	16.91	17.80	1.227			-0.12	1.010	1.239
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	26340	1880	1	16.97	17.80	1.211			-0.12	0.610	0.738
	LTE Band 25	20M	QPSK	100	0	Back	5mm	Ant 1	DSI7	26140	1860	1	16.78	17.80	1.265			0.10	0.626	0.792
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	26340	1880	1	17.02	17.80	1.197			-0.09	0.737	0.882
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	26140	1860	1	16.98	17.80	1.208			-0.10	0.765	0.924
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	26590	1905	1	16.91	17.80	1.227			0.06	0.796	0.977
	LTE Band 25	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI7	26340	1880	1	16.97	17.80	1.211			-0.01	0.444	0.538
	LTE Band 25	20M	QPSK	100	0	Left Side	5mm	Ant 1	DSI7	26140	1860	1	16.78	17.80	1.265			0.16	0.444	0.562
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 1	DSI7	26340	1880	1	17.02	17.80	1.197			-0.12	0.036	0.043
	LTE Band 25	20M	QPSK	50	0	Right Side	5mm	Ant 1	DSI7	26340	1880	1	16.97	17.80	1.211			-0.13	0.021	0.026
	LTE Band 25	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI7	26340	1880	1								



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	LTE Band 25	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI7	26590	1905	1	16.91	17.80	1.227			0.06	0.769	0.944
	LTE Band 25	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI7	26340	1880	1	16.97	17.80	1.211			-0.04	0.446	0.540
	LTE Band 25	20M	QPSK	100	0	Top Side	5mm	Ant 1	DSI7	26140	1860	1	16.78	17.80	1.265			-0.06	0.417	0.528
	LTE Band 2	20M	QPSK	1	99	Back	5mm	Ant 1	DSI7	18700+18898	1860+1879.8	1	16.78	17.80	1.265			0.01	0.931	1.178
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 2	DSI7	26340	1880	1	19.12	19.90	1.197			-0.18	0.639	0.765
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 2	DSI7	26340	1880	1	19.07	19.90	1.211			-0.03	0.398	0.482
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	26340	1880	1	19.12	19.90	1.197			0.14	0.777	0.930
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	26140	1860	1	19.08	19.90	1.208			0.14	0.804	0.971
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	26590	1905	1	19.06	19.90	1.213			0.11	0.827	1.003
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 2	DSI7	26340	1880	1	19.07	19.90	1.211			-0.03	0.475	0.575
	LTE Band 25	20M	QPSK	100	0	Back	5mm	Ant 2	DSI7	26140	1860	1	19.03	19.90	1.222			0.09	0.467	0.571
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI7	26340	1880	1	19.12	19.90	1.197			-0.09	0.198	0.237
	LTE Band 25	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI7	26340	1880	1	19.07	19.90	1.211			0.10	0.122	0.148
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 2	DSI7	26340	1880	1	19.12	19.90	1.197			0.11	0.364	0.435
	LTE Band 25	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI7	26340	1880	1	19.07	19.90	1.211			0.07	0.225	0.273
	LTE Band 25	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	26340	1880	1	19.12	19.90	1.197			0.01	0.999	1.196
	LTE Band 25	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	26140	1860	1	19.08	19.90	1.208			-0.01	1.060	1.280
	LTE Band 25	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	26590	1905	1	19.06	19.90	1.213			0.03	1.040	1.262
	LTE Band 25	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI7	26340	1880	1	19.07	19.90	1.211			-0.19	0.635	0.769
	LTE Band 25	20M	QPSK	100	0	Bottom Side	5mm	Ant 2	DSI7	26140	1860	1	19.03	19.90	1.222			-0.00	0.620	0.758
	LTE Band 2	20M	QPSK	1	99	Bottom Side	5mm	Ant 2	DSI7	18700+18898	1860+1879.8	1	18.90	19.90	1.259			0.06	0.926	1.166
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 6	DSI7	26340	1880	1	19.76	20.60	1.213			0.12	0.446	0.542
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 6	DSI7	26340	1880	1	19.74	20.60	1.219			-0.13	0.280	0.341
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 6	DSI7	26340	1880	1	19.76	20.60	1.213			-0.06	0.477	0.578
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 6	DSI7	26340	1880	1	19.74	20.60	1.219			0.10	0.298	0.363
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 6	DSI7	26340	1880	1	19.76	20.60	1.213			0.19	0.030	0.037
	LTE Band 25	20M	QPSK	50	0	Left Side	5mm	Ant 6	DSI7	26340	1880	1	19.74	20.60	1.219			0.15	0.022	0.027
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	26340	1880	1	19.76	20.60	1.213			-0.16	1.020	1.237
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	26140	1860	1	19.74	20.60	1.219			0.01	1.040	1.268
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	26590	1905	1	19.71	20.60	1.227			-0.12	0.965	1.184
	LTE Band 25	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI7	26340	1880	1	19.74	20.60	1.219			-0.15	0.626	0.763
	LTE Band 25	20M	QPSK	100	0	Right Side	5mm	Ant 6	DSI7	26340	1880	1	19.68	20.60	1.236			0.08	0.626	0.774
	LTE Band 25	20M	QPSK	1	0	Top Side	5mm	Ant 6	DSI7	26340	1880	1	19.76	20.60	1.213			0.15	0.049	0.060
	LTE Band 25	20M	QPSK	50	0	Top Side	5mm	Ant 6	DSI7	26340	1880	1	19.74	20.60	1.219			0.04	0.032	0.039
	LTE Band 2	20M	QPSK	1	99	Right Side	5mm	Ant 6	DSI7	18700+18898	1860+1879.8	1	19.49	20.60	1.291			0.06	0.916	1.183
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	26140	1860	2	19.74	20.60	1.219			0.01	0.849	1.035
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	26140	1860	Cover	19.74	20.60	1.219			0.05	0.936	1.141
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 0	DSI7	26865	831.5	1	22.33	23.60	1.34			0.16	0.698	0.935
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 0	DSI7	26865	831.5	1	21.44	23.00	1.432			0.17	0.437	0.626
	LTE Band 26	15M	QPSK	75	0	Front	5mm	Ant 0	DSI7	26865	831.5	1	21.27	23.00	1.489			-0.00	0.416	0.620
39	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 0	DSI7	26865	831.5	1	22.33	23.60	1.34			-0.01	0.967	1.296
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 0	DSI7	26865	831.5	1	21.44	23.00	1.432			-0.07	0.588	0.842
	LTE Band 26	15M	QPSK	75	0	Back	5mm	Ant 0	DSI7	26865	831.5	1	21.27	23.00	1.489			0.03	0.583	0.868
	LTE Band 26	15M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	26865	831.5	1	22.33	23.60	1.34			0.18	0.782	1.048
	LTE Band 26	15M	QPSK	36	0	Left Side	5mm	Ant 0	DSI7	26865	831.5	1	21.44	23.00	1.432			-0.12	0.478	0.684
	LTE Band 26	15M	QPSK	75	0	Left Side	5mm	Ant 0	DSI7	26865	831.5	1	21.27	23.00	1.489			-0.11	0.473	0.705
	LTE Band 26	15M	QPSK	1	0	Right Side	5mm	Ant 0	DSI7	26865	831.5	1	22.33	23.60	1.34			0.16	0.091	0.122
	LTE Band 26	15M	QPSK	36	0	Right Side	5mm	Ant 0	DSI7	26865	831.5	1	21.44	23.00	1.432			0.05	0.049	0.071
	LTE Band 26	15M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI7	26865	831.5	1	22.33	23.60	1.34			0.04	0.568	0.761
	LTE Band 26	15M	QPSK	36	0	Bottom Side	5mm	Ant 0	DSI7	26865	831.5	1	21.44	23.00	1.432			0.07	0.354	0.507
	LTE Band 5	10M	QPSK	1	49	Back	5mm	Ant 0	DSI7	20475+20574	831.5+841.4	1	22.19	23.60	1.384			0.06	0.855	1.183
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 1	DSI7	26865	831.5	1	22.94	23.90	1.247			0.12	0.718	0.895
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 1	DSI7	26865	831.5	1	21.78	23.00	1.324			0.08	0.453	0.600
	LTE Band 26	15M	QPSK	75	0	Front	5mm	Ant 1	DSI7	26865	831.5	1	21.83	23.00	1.309			0.02	0.441	0.578
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	DSI7	26865	831.5	1	22.94	23.90	1.247			0.03	1.030	1.284
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 1	DSI7	26865	831.5	1	21.78	23.00	1.324			-0.11	0.644	0.852
	LTE Band 26	15M	QPSK	75	0	Back	5mm	Ant 1	DSI7	26865	831.5	1	21.83	23.00	1.309			-0.00	0.628	0.822
	LTE Band 26	15M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	26865	831.5	1	22.94	23.90	1.247			-0.07	0.830	1.036
	LTE Band 26	15M	QPSK	36	0	Left Side	5mm	Ant 1	DSI7	26865	831.5	1	21.78	23.00	1.324			0.16	0.516	0.683
	LTE Band 26	15M	QPSK	75	0	Left Side	5mm	Ant 1	DSI7	26865	831.5	1	21.83	23.00	1.309			0.04	0.504	0.660
	LTE Band 26	15M	QPSK	1	0	Right Side	5mm	Ant 1	DSI7	26865	831.5	1	22.94	23.90	1.247			0.05	0.109	0.136
	LTE Band 26	15M	QPSK	36	0	Right Side	5mm	Ant 1	DSI7	26865	831.5	1	21.78	23.00	1.324			-0.04	0.060	0.080
	LTE Band 26	15M	QPSK	1	0	Top Side	5mm	Ant 1	DSI7	26865	831.5	1	22.94	23.90	1.247			-0.05	0.997	1.243
	LTE Band 26	15M	QPSK	36	0	Top Side	5mm	Ant 1	DSI7	26865	831.5	1	21.78	23.00	1.324			-0.16	0.627	0.830
	LTE Band 26	15M	QPSK	75	0	Top Side	5mm	Ant 1	DSI7	26865	831.5	1	21.83	23.00	1.309			-0.12	0.615	0.806
	LTE Band 5	10M	QPSK	1	49	Back	5mm	Ant 1	DSI7	20475+20574	831.5+841.4	1	22.54	23.90	1.368			0.06	0.853	1.167
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 0	DSI7	132322	1745	1	18.46	19.90	1.393			-0.07	0.425	0.591
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 0	DSI7	132322	1745	1	18.43	19.90	1.403			-0.19	0.246	0.346
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 0	DSI7	132322	1745	1	18.46	19.90	1.393			0.19	0.596	0.831
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 0	DSI7	132072	1720	1	18.41	19.90	1.409			0.03	0.694	0.977
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 0	DSI7	132572	1770	1	18.43	19.90	1.403			0.18	0.710	0.996
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 0	DSI7	132322	1745	1	18.43	19.90	1.403			-0.13	0.373	0.523
	LTE Band 66	20M	QPSK	100	0															



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	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	132322	1745	1	18.46	19.90	1.393			-0.08	0.778	1.084
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	132072	1720	1	18.41	19.90	1.409			0.13	0.872	1.228
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	132572	1770	1	18.43	19.90	1.403			0.04	0.914	1.282
	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	Ant 0	DSI7	132322	1745	1	18.43	19.90	1.403			0.06	0.493	0.691
	LTE Band 66	20M	QPSK	100	0	Left Side	5mm	Ant 0	DSI7	132322	1745	1	18.39	19.90	1.416			-0.10	0.496	0.702
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 0	DSI7	132322	1745	1	18.46	19.90	1.393			-0.05	0.003	0.005
	LTE Band 66	20M	QPSK	50	0	Right Side	5mm	Ant 0	DSI7	132322	1745	1	18.43	19.90	1.403			-0.19	0.002	0.003
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI7	132322	1745	1	18.46	19.90	1.393			-0.01	0.065	0.090
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	Ant 0	DSI7	132322	1745	1	18.43	19.90	1.403			-0.08	0.041	0.057
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	132572	1770	2	18.43	19.90	1.403			0.03	0.785	1.101
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	132572	1770	Cover	18.43	19.90	1.403			0.01	0.866	1.215
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 1	DSI7	132322	1745	1	16.92	18.00	1.282			0.08	0.597	0.765
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 1	DSI7	132322	1745	1	16.89	18.00	1.291			0.12	0.383	0.494
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	132322	1745	1	16.92	18.00	1.282			0.04	0.948	1.215
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	132072	1720	1	16.89	18.00	1.291			0.03	0.989	1.277
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	132572	1770	1	16.83	18.00	1.309			0.15	0.652	0.854
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	132322	1745	1	16.89	18.00	1.291			-0.10	0.597	0.771
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 1	DSI7	132322	1745	1	16.78	18.00	1.324			0.03	0.609	0.806
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	132322	1745	1	16.92	18.00	1.282			-0.01	0.728	0.934
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	132072	1720	1	16.89	18.00	1.291			-0.17	0.761	0.982
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	132572	1770	1	16.83	18.00	1.309			-0.10	0.588	0.770
	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI7	132322	1745	1	16.89	18.00	1.291			-0.11	0.456	0.589
	LTE Band 66	20M	QPSK	100	0	Left Side	5mm	Ant 1	DSI7	132322	1745	1	16.78	18.00	1.324			0.01	0.468	0.620
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 1	DSI7	132322	1745	1	16.92	18.00	1.282			0.15	0.018	0.022
	LTE Band 66	20M	QPSK	50	0	Right Side	5mm	Ant 1	DSI7	132322	1745	1	16.89	18.00	1.291			-0.19	0.011	0.014
	LTE Band 66	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI7	132322	1745	1	16.92	18.00	1.282			-0.15	0.590	0.757
	LTE Band 66	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI7	132322	1745	1	16.89	18.00	1.291			0.09	0.364	0.470
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	DSI7	132322	1745	1	21.12	22.50	1.374			-0.05	0.598	0.822
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	DSI7	132072	1720	1	21.09	22.50	1.384			0.15	0.602	0.833
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	DSI7	132572	1770	1	21.08	22.50	1.387			0.18	0.556	0.771
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 2	DSI7	132322	1745	1	21.08	22.50	1.387			-0.10	0.372	0.515
	LTE Band 66	20M	QPSK	100	0	Front	5mm	Ant 2	DSI7	132322	1745	1	21.01	22.50	1.409			-0.15	0.375	0.529
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	132322	1745	1	21.12	22.50	1.374			-0.03	0.690	0.948
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	132072	1720	1	21.09	22.50	1.384			0.05	0.680	0.941
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	132572	1770	1	21.08	22.50	1.387			0.06	0.644	0.894
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	DSI7	132322	1745	1	21.08	22.50	1.387			-0.02	0.439	0.609
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 2	DSI7	132322	1745	1	21.01	22.50	1.409			-0.09	0.442	0.623
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI7	132322	1745	1	21.12	22.50	1.374			-0.11	0.164	0.225
	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI7	132322	1745	1	21.08	22.50	1.387			-0.18	0.105	0.146
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 2	DSI7	132322	1745	1	21.12	22.50	1.374			-0.12	0.321	0.441
	LTE Band 66	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI7	132322	1745	1	21.08	22.50	1.387			-0.07	0.204	0.283
40	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	132322	1745	1	21.12	22.50	1.374			0.01	0.938	1.289
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	132072	1720	1	21.09	22.50	1.384			0.13	0.924	1.279
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	132572	1770	1	21.08	22.50	1.387			0.13	0.903	1.252
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI7	132322	1745	1	21.08	22.50	1.387			0.10	0.605	0.840
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI7	132072	1720	1	21.06	22.50	1.393			0.16	0.612	0.853
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI7	132572	1770	1	20.99	22.50	1.416			-0.07	0.595	0.842
	LTE Band 66	20M	QPSK	100	0	Bottom Side	5mm	Ant 2	DSI7	132322	1745	1	21.01	22.50	1.409			-0.14	0.605	0.853
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 6	DSI7	132322	1745	1	19.12	20.40	1.343			0.04	0.402	0.540
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 6	DSI7	132322	1745	1	19.09	20.40	1.352			0.18	0.268	0.363
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 6	DSI7	132322	1745	1	19.12	20.40	1.343			0.12	0.409	0.549
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 6	DSI7	132322	1745	1	19.09	20.40	1.352			0.14	0.283	0.382
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 6	DSI7	132322	1745	1	19.12	20.40	1.343			0.17	0.035	0.047
	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	Ant 6	DSI7	132322	1745	1	19.09	20.40	1.352			0.00	0.022	0.030
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	132322	1745	1	19.12	20.40	1.343			0.03	0.922	1.238
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	132072	1720	1	19.08	20.40	1.355			0.04	0.853	1.156
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	132572	1770	1	19.06	20.40	1.361			-0.02	0.945	1.286
	LTE Band 66	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI7	132322	1745	1	19.09	20.40	1.352			-0.13	0.581	0.785
	LTE Band 66	20M	QPSK	100	0	Right Side	5mm	Ant 6	DSI7	132572	1770	1	18.96	20.40	1.393			-0.06	0.581	0.809
	LTE Band 66	20M	QPSK	1	0	Top Side	5mm	Ant 6	DSI7	132322	1745	1	19.12	20.40	1.343			-0.12	0.061	0.082
	LTE Band 66	20M	QPSK	50	0	Top Side	5mm	Ant 6	DSI7	132322	1745	1	19.09	20.40	1.352			0.06	0.038	0.052
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	132572	1770	2	19.06	20.40	1.361			0.03	0.849	1.155
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	132572	1770	Cover	19.06	20.40	1.361			0.04	0.912	1.241
	LTE Band 71	20M	QPSK	1	0	Front	5mm	Ant 0	DSI7	133297	680.5	1	22.37	24.00	1.455			-0.02	0.331	0.482
	LTE Band 71	20M	QPSK	50	0	Front	5mm	Ant 0	DSI7	133297	680.5	1	21.32	23.00	1.472			0.07	0.210	0.308
	LTE Band 71	20M	QPSK	1	0	Back	5mm	Ant 0	DSI7	133297	680.5	1	22.37	24.00	1.455			-0.10	0.459	0.668
	LTE Band 71	20M	QPSK	50	0	Back	5mm	Ant 0	DSI7	133297	680.5	1	21.32	23.00	1.472			0.18	0.296	0.435
41	LTE Band 71	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	133297	680.5	1	22.37	24.00	1.455			-0.02	0.545	0.793
	LTE Band 71	20M	QPSK	50	0	Left Side	5mm	Ant 0	DSI7	133297	680.5	1	21.32	23.00	1.472			-0.12	0.341	0.501
	LTE Band 71	20M	QPSK	1	0	Right Side	5mm	Ant 0	DSI7	133297	680.5	1	22.37	24.00	1.455			0.04	0.070	0.102
	LTE Band 71	20M	QPSK	50	0	Right Side	5mm	Ant 0	DSI7	133297	680.5	1	21.32	23.00	1.472			-0.04	0.044	0.065
	LTE Band 71	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI7	133297	680.5	1	22.37	24.00	1.455			0.12	0.334	0.486
	LTE Band 71	20M	QPSK	50	0															



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	LTE Band 71	20M	QPSK	1	0	Front	5mm	Ant 1	DSI7	133297	680.5	1	22.72	24.00	1.343			-0.12	0.165	0.222
	LTE Band 71	20M	QPSK	50	0	Front	5mm	Ant 1	DSI7	133297	680.5	1	21.75	23.00	1.334			0.04	0.106	0.141
	LTE Band 71	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	133297	680.5	1	22.72	24.00	1.343			-0.15	0.301	0.405
	LTE Band 71	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	133297	680.5	1	21.75	23.00	1.334			0.11	0.194	0.259
	LTE Band 71	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	133297	680.5	1	22.72	24.00	1.343			-0.08	0.344	0.462
	LTE Band 71	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI7	133297	680.5	1	21.75	23.00	1.334			0.06	0.222	0.296
	LTE Band 71	20M	QPSK	1	0	Right Side	5mm	Ant 1	DSI7	133297	680.5	1	22.72	24.00	1.343			-0.12	0.053	0.071
	LTE Band 71	20M	QPSK	50	0	Right Side	5mm	Ant 1	DSI7	133297	680.5	1	21.75	23.00	1.334			-0.04	0.033	0.044
	LTE Band 71	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI7	133297	680.5	1	22.72	24.00	1.343			-0.05	0.282	0.379
	LTE Band 71	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI7	133297	680.5	1	21.75	23.00	1.334			-0.07	0.180	0.240
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 0	DSI7	40620	2593	1	21.93	23.00	1.279	62.9	1.006	-0.16	0.338	0.434
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 0	DSI7	40620	2593	1	20.99	22.00	1.262	62.9	1.006	0.17	0.213	0.270
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI7	40620	2593	1	21.93	23.00	1.279	62.9	1.006	-0.11	0.339	0.437
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI7	40620	2593	1	20.99	22.00	1.262	62.9	1.006	-0.05	0.204	0.259
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	40620	2593	1	21.93	23.00	1.279	62.9	1.006	-0.09	0.526	0.676
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	39750	2506	1	21.85	23.00	1.303	62.9	1.006	-0.11	0.569	0.746
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	40185	2549.5	1	21.82	23.00	1.312	62.9	1.006	0.06	0.592	0.781
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	41055	2636.5	1	21.84	23.00	1.306	62.9	1.006	-0.08	0.478	0.628
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	41490	2680	1	21.87	23.00	1.297	62.9	1.006	-0.01	0.709	0.925
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 0	DSI7	40620	2593	1	20.99	22.00	1.262	62.9	1.006	-0.13	0.341	0.433
	LTE Band 41	20M	QPSK	100	0	Left Side	5mm	Ant 0	DSI7	40620	2593	1	20.90	22.00	1.288	62.9	1.006	-0.10	0.334	0.433
	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 0	DSI7	40620	2593	1	21.93	23.00	1.279	62.9	1.006	-0.06	0.011	0.014
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 0	DSI7	40620	2593	1	20.99	22.00	1.262	62.9	1.006	0.00	0.007	0.009
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI7	40620	2593	1	21.93	23.00	1.279	62.9	1.006	-0.11	0.305	0.392
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 0	DSI7	40620	2593	1	20.99	22.00	1.262	62.9	1.006	0.18	0.183	0.232
	LTE Band 41_HPUE	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	41490	2680	1	24.86	26.00	1.3	42.9	1.009	0.03	0.905	1.187
	LTE Band 41_HPUE	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	41490+41292	2680+2660.2	1	24.16	26.00	1.528	42.9	1.009	0.06	0.711	1.096
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	DSI7	40620	2593	1	19.95	20.70	1.189	62.9	1.006	-0.16	0.557	0.666
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	DSI7	39750	2506	1	19.86	20.70	1.213	62.9	1.006	0.11	0.454	0.554
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	DSI7	40185	2549.5	1	19.91	20.70	1.199	62.9	1.006	0.18	0.561	0.677
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	DSI7	41055	2636.5	1	19.89	20.70	1.205	62.9	1.006	-0.07	0.474	0.575
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	DSI7	41490	2680	1	19.83	20.70	1.222	62.9	1.006	-0.05	0.381	0.469
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 1	DSI7	40620	2593	1	19.90	20.70	1.202	62.9	1.006	-0.07	0.365	0.441
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	40620	2593	1	19.95	20.70	1.189	62.9	1.006	0.13	0.920	1.100
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	39750	2506	1	19.86	20.70	1.213	62.9	1.006	-0.07	0.895	1.092
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	40185	2549.5	1	19.91	20.70	1.199	62.9	1.006	0.14	0.907	1.094
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	41055	2636.5	1	19.89	20.70	1.205	62.9	1.006	0.13	0.771	0.935
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	41490	2680	1	19.83	20.70	1.222	62.9	1.006	-0.07	0.689	0.847
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	40620	2593	1	19.90	20.70	1.202	62.9	1.006	-0.05	0.627	0.758
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	39750	2506	1	19.73	20.70	1.25	62.9	1.006	0.12	0.569	0.716
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	40185	2549.5	1	19.79	20.70	1.233	62.9	1.006	0.13	0.635	0.788
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	41055	2636.5	1	19.78	20.70	1.236	62.9	1.006	-0.07	0.573	0.713
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI7	41490	2680	1	19.76	20.70	1.242	62.9	1.006	0.07	0.470	0.587
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 1	DSI7	40620	2593	1	19.86	20.70	1.213	62.9	1.006	-0.11	0.577	0.705
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	40620	2593	1	19.95	20.70	1.189	62.9	1.006	0.08	1.020	1.220
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	39750	2506	1	19.86	20.70	1.213	62.9	1.006	-0.17	0.874	1.067
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	40185	2549.5	1	19.91	20.70	1.199	62.9	1.006	-0.10	0.978	1.179
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	41055	2636.5	1	19.89	20.70	1.205	62.9	1.006	-0.06	1.060	1.285
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	41490	2680	1	19.83	20.70	1.222	62.9	1.006	0.01	0.887	1.090
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI7	40620	2593	1	19.90	20.70	1.202	62.9	1.006	-0.03	0.627	0.758
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI7	39750	2506	1	19.73	20.70	1.25	62.9	1.006	-0.01	0.524	0.659
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI7	40185	2549.5	1	19.79	20.70	1.233	62.9	1.006	-0.01	0.565	0.701
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI7	41055	2636.5	1	19.78	20.70	1.236	62.9	1.006	-0.14	0.652	0.810
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI7	41490	2680	1	19.76	20.70	1.242	62.9	1.006	0.16	0.569	0.711
	LTE Band 41	20M	QPSK	100	0	Left Side	5mm	Ant 1	DSI7	40620	2593	1	19.86	20.70	1.213	62.9	1.006	0.17	0.606	0.740
	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 1	DSI7	40620	2593	1	19.95	20.70	1.189	62.9	1.006	-0.03	0.027	0.032
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 1	DSI7	40620	2593	1	19.90	20.70	1.202	62.9	1.006	0.18	0.023	0.027
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI7	40620	2593	1	19.95	20.70	1.189	62.9	1.006	0.10	0.450	0.538
	LTE Band 41	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI7	40620	2593	1	19.90	20.70	1.202	62.9	1.006	0.01	0.280	0.339
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	41055+40857	2636.5+2616.7	1	19.83	20.70	1.222	62.9	1.006	0.06	0.958	1.178
	LTE Band 41_HPUE	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI7	41055	2636.5	1	21.55	22.30	1.189	42.9	1.009	-0.03	0.997	1.196
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI7	40620	2593	1	19.66	20.50	1.213	62.9	1.006	0.05	0.499	0.609
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI7	39750	2506	1	19.57	20.50	1.239	62.9	1.006	-0.14	0.354	0.441
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI7	40185	2549.5	1	19.61	20.50	1.227	62.9	1.006	0.06	0.416	0.513
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI7	41055	2636.5	1	19.58	20.50	1.236	62.9	1.006	0.10	0.486	0.605
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI7	41490	2680	1	19.60	20.50	1.23	62.9	1.006	-0.17	0.515	0.637
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 2	DSI7	40620	2593	1	19.62	20.50	1.225	62.9	1.006	0.11	0.320	0.394
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	40620	2593	1	19.66	20.50	1.213	62.9	1.006	-0.12	0.732	0.893
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI7	39750	2506	1	19.5							



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	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI7	40620	2593	1	19.66	20.50	1.213	62.9	1.006	0.00	0.079	0.097
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI7	40620	2593	1	19.62	20.50	1.225	62.9	1.006	0.08	0.060	0.073
	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 2	DSI7	40620	2593	1	19.66	20.50	1.213	62.9	1.006	-0.11	0.153	0.187
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI7	40620	2593	1	19.62	20.50	1.225	62.9	1.006	-0.08	0.102	0.126
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	40620	2593	1	19.66	20.50	1.213	62.9	1.006	0.08	0.974	1.189
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	39750	2506	1	19.57	20.50	1.239	62.9	1.006	0.11	0.722	0.900
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	40185	2549.5	1	19.61	20.50	1.227	62.9	1.006	-0.01	0.843	1.041
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	41055	2636.5	1	19.58	20.50	1.236	62.9	1.006	0.07	1.010	1.256
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	41490	2680	1	19.60	20.50	1.23	62.9	1.006	-0.03	1.040	1.287
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI7	40620	2593	1	19.62	20.50	1.225	62.9	1.006	0.06	0.626	0.771
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI7	39750	2506	1	19.51	20.50	1.256	62.9	1.006	0.05	0.483	0.610
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI7	40185	2549.5	1	19.54	20.50	1.247	62.9	1.006	-0.03	0.545	0.684
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI7	41055	2636.5	1	19.53	20.50	1.25	62.9	1.006	-0.13	0.641	0.806
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI7	41490	2680	1	19.55	20.50	1.245	62.9	1.006	0.16	0.661	0.828
	LTE Band 41	20M	QPSK	100	0	Bottom Side	5mm	Ant 2	DSI7	40620	2593	1	19.58	20.50	1.236	62.9	1.006	-0.09	0.611	0.760
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	41490+41292	2680+2660.2	1	19.48	20.50	1.265	62.9	1.006	0.06	0.924	1.176
	LTE Band 41_HPUE	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	41490	2680	1	21.27	22.10	1.211	42.9	1.009	0.03	0.990	1.210
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 6	DSI7	40620	2593	1	20.18	21.10	1.236	62.9	1.006	-0.02	0.350	0.435
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 6	DSI7	40620	2593	1	19.81	21.00	1.315	62.9	1.006	0.03	0.212	0.281
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 6	DSI7	40620	2593	1	20.18	21.10	1.236	62.9	1.006	0.10	0.387	0.481
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 6	DSI7	40620	2593	1	19.81	21.00	1.315	62.9	1.006	0.06	0.246	0.325
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 6	DSI7	40620	2593	1	20.18	21.10	1.236	62.9	1.006	0.07	0.007	0.009
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 6	DSI7	40620	2593	1	19.81	21.00	1.315	62.9	1.006	0.17	0.004	0.006
	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	40620	2593	1	20.18	21.10	1.236	62.9	1.006	-0.03	0.864	1.075
	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	39750	2506	1	20.11	21.10	1.256	62.9	1.006	0.17	0.965	1.220
42	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	40185	2549.5	1	20.15	21.10	1.245	62.9	1.006	0.01	1.030	1.290
	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	41055	2636.5	1	20.12	21.10	1.253	62.9	1.006	-0.05	0.679	0.855
	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	41490	2680	1	20.09	21.10	1.262	62.9	1.006	-0.13	0.560	0.711
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI7	40620	2593	1	19.81	21.00	1.315	62.9	1.006	0.17	0.543	0.718
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI7	39750	2506	1	19.63	21.00	1.371	62.9	1.006	0.08	0.622	0.857
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI7	40185	2549.5	1	19.70	21.00	1.349	62.9	1.006	-0.00	0.644	0.874
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI7	41055	2636.5	1	19.66	21.00	1.361	62.9	1.006	-0.12	0.436	0.598
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 6	DSI7	41490	2680	1	19.60	21.00	1.38	62.9	1.006	0.04	0.348	0.483
	LTE Band 41	20M	QPSK	100	0	Right Side	5mm	Ant 6	DSI7	40620	2593	1	19.66	21.00	1.361	62.9	1.006	-0.13	0.546	0.748
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 6	DSI7	40620	2593	1	20.18	21.10	1.236	62.9	1.006	-0.05	0.061	0.076
	LTE Band 41	20M	QPSK	50	0	Top Side	5mm	Ant 6	DSI7	40620	2593	1	19.81	21.00	1.315	62.9	1.006	-0.09	0.039	0.051
	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	40185+39987	2549.5+2529.7	1	20.03	21.10	1.279	62.9	1.006	0.06	0.925	1.190
	LTE Band 41_HPUE	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	40185	2549.5	1	21.78	22.70	1.236	42.9	1.009	-0.02	1.010	1.260
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 7	DSI7	42590	3500	1	20.74	21.60	1.219	62.9	1.006	0.07	0.578	0.709
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 7	DSI7	42590	3500	1	20.68	21.60	1.236	62.9	1.006	-0.06	0.452	0.562
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	DSI7	42590	3500	1	20.74	21.60	1.219	62.9	1.006	-0.01	0.619	0.759
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 7	DSI7	42590	3500	1	20.68	21.60	1.236	62.9	1.006	0.07	0.401	0.498
	LTE Band 42	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	42590	3500	1	20.74	21.60	1.219	62.9	1.006	-0.02	1.050	1.288
	LTE Band 42	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	42190	3460	1	20.71	21.60	1.227	62.9	1.006	0.05	1.040	1.284
	LTE Band 42	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	42990	3540	1	20.68	21.60	1.236	62.9	1.006	-0.16	1.000	1.243
	LTE Band 42	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI7	42590	3500	1	20.68	21.60	1.236	62.9	1.006	-0.08	0.696	0.865
	LTE Band 42	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI7	42190	3460	1	20.63	21.60	1.25	62.9	1.006	-0.02	0.663	0.834
	LTE Band 42	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI7	42990	3540	1	20.61	21.60	1.256	62.9	1.006	-0.16	0.680	0.859
	LTE Band 42	20M	QPSK	100	0	Left Side	5mm	Ant 7	DSI7	42590	3500	1	20.61	21.60	1.256	62.9	1.006	-0.02	0.737	0.931
	LTE Band 42	20M	QPSK	1	0	Right Side	5mm	Ant 7	DSI7	42590	3500	1	20.74	21.60	1.219	62.9	1.006	0.02	0.024	0.030
	LTE Band 42	20M	QPSK	50	0	Right Side	5mm	Ant 7	DSI7	42590	3500	1	20.68	21.60	1.236	62.9	1.006	0.01	0.016	0.020
	LTE Band 42	20M	QPSK	1	0	Top Side	5mm	Ant 7	DSI7	42590	3500	1	20.74	21.60	1.219	62.9	1.006	-0.09	0.063	0.078
	LTE Band 42	20M	QPSK	50	0	Top Side	5mm	Ant 7	DSI7	42590	3500	1	20.68	21.60	1.236	62.9	1.006	-0.09	0.044	0.054
	LTE Band 42	20M	QPSK	1	99	Left Side	5mm	Ant 7	DSI7	42590+42788	3500+3519.8	1	20.69	21.60	1.233	62.9	1.006	0.02	0.934	1.159
	LTE Band 42	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	42590	3500	2	20.74	21.60	1.219	62.9	1.006	0.03	0.842	1.033
	LTE Band 42	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	42590	3500	Cover	20.74	21.60	1.219	62.9	1.006	0.01	0.956	1.172
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 5	DSI7	42590	3500	1	21.82	22.70	1.225	62.9	1.006	-0.12	0.603	0.743
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 5	DSI7	42590	3500	1	21.75	22.70	1.245	62.9	1.006	-0.19	0.416	0.521
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 5	DSI7	42590	3500	1	21.82	22.70	1.225	62.9	1.006	0.13	0.599	0.738
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 5	DSI7	42590	3500	1	21.75	22.70	1.245	62.9	1.006	0.15	0.403	0.505
	LTE Band 42	20M	QPSK	1	0	Left Side	5mm	Ant 5	DSI7	42590	3500	1	21.82	22.70	1.225	62.9	1.006	0.14	0.025	0.031
	LTE Band 42	20M	QPSK	50	0	Left Side	5mm	Ant 5	DSI7	42590	3500	1	21.75	22.70	1.245	62.9	1.006	0.14	0.014	0.018
	LTE Band 42	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	42590	3500	1	21.82	22.70	1.225	62.9	1.006	0.08	0.962	1.185
43	LTE Band 42	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	42190	3460	1	21.77	22.70	1.239	62.9	1.006	-0.08	1.040	1.296
	LTE Band 42	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	42990	3540	1	21.76	22.70	1.242	62.9	1.006	0.02	1.010	1.262
	LTE Band 42	20M	QPSK	50	0	Right Side	5mm	Ant 5	DSI7	42590	3500	1	21.75	22.70	1.245	62.9	1.006	-0.12	0.798	0.999
	LTE Band 42	20M	QPSK	50	0	Right Side	5mm	Ant 5	DSI7	42190	3460	1	21.72	22.70	1.253	62.9	1.006	-0.00	0.890	1.121
	LTE Band 42	20M	QPSK	50	0	Right Side	5mm	Ant 5	DSI7	42990	3540	1	21.69	22.70	1.262	62.9	1.006	-0.06	0.	



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	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 7	DSI7	55990	3625	1	20.62	21.70	1.282	62.9	1.006	-0.06	0.596	0.768
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 7	DSI7	55340	3560	1	20.54	21.70	1.306	62.9	1.006	0.11	0.609	0.800
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 7	DSI7	55830	3609	1	20.57	21.70	1.297	62.9	1.006	-0.17	0.596	0.777
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 7	DSI7	56150	3641	1	20.53	21.70	1.309	62.9	1.006	0.09	0.613	0.807
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 7	DSI7	56640	3690	1	20.58	21.70	1.294	62.9	1.006	-0.06	0.587	0.764
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 7	DSI7	55990	3625	1	20.59	21.70	1.291	62.9	1.006	0.07	0.463	0.602
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 7	DSI7	55340	3560	1	20.53	21.70	1.309	62.9	1.006	-0.09	0.472	0.622
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 7	DSI7	55830	3609	1	20.57	21.70	1.297	62.9	1.006	0.05	0.476	0.622
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 7	DSI7	56150	3641	1	20.51	21.70	1.315	62.9	1.006	-0.05	0.468	0.619
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 7	DSI7	56640	3690	1	20.52	21.70	1.312	62.9	1.006	-0.03	0.454	0.600
	LTE Band 48	20M	QPSK	100	0	Front	5mm	Ant 7	DSI7	55990	3625	1	20.49	21.70	1.321	62.9	1.006	0.10	0.476	0.633
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	DSI7	55990	3625	1	20.62	21.70	1.282	62.9	1.006	-0.13	0.648	0.836
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	DSI7	55340	3560	1	20.54	21.70	1.306	62.9	1.006	-0.10	0.644	0.846
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	DSI7	55830	3609	1	20.57	21.70	1.297	62.9	1.006	0.05	0.640	0.835
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	DSI7	56150	3641	1	20.53	21.70	1.309	62.9	1.006	0.07	0.631	0.831
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	DSI7	56640	3690	1	20.58	21.70	1.294	62.9	1.006	0.03	0.631	0.821
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 7	DSI7	55990	3625	1	20.59	21.70	1.291	62.9	1.006	0.19	0.399	0.519
	LTE Band 48	20M	QPSK	100	0	Back	5mm	Ant 7	DSI7	55990	3625	1	20.49	21.70	1.321	62.9	1.006	-0.04	0.416	0.553
	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	55990	3625	1	20.62	21.70	1.282	62.9	1.006	0.05	0.975	1.257
	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	55340	3560	1	20.54	21.70	1.306	62.9	1.006	0.09	0.693	0.910
	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	55830	3609	1	20.57	21.70	1.297	62.9	1.006	-0.15	0.979	1.278
	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	56150	3641	1	20.53	21.70	1.309	62.9	1.006	-0.07	0.944	1.243
44	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	56640	3690	1	20.58	21.70	1.294	62.9	1.006	-0.11	0.997	1.298
	LTE Band 48	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI7	55990	3625	1	20.59	21.70	1.291	62.9	1.006	-0.01	0.684	0.888
	LTE Band 48	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI7	55340	3560	1	20.53	21.70	1.309	62.9	1.006	-0.03	0.697	0.918
	LTE Band 48	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI7	55830	3609	1	20.57	21.70	1.297	62.9	1.006	0.00	0.715	0.932
	LTE Band 48	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI7	56150	3641	1	20.51	21.70	1.315	62.9	1.006	0.08	0.723	0.957
	LTE Band 48	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI7	56640	3690	1	20.52	21.70	1.312	62.9	1.006	-0.06	0.759	1.001
	LTE Band 48	20M	QPSK	100	0	Left Side	5mm	Ant 7	DSI7	55990	3625	1	20.49	21.70	1.321	62.9	1.006	0.09	0.679	0.903
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 7	DSI7	55990	3625	1	20.62	21.70	1.282	62.9	1.006	-0.18	0.029	0.038
	LTE Band 48	20M	QPSK	50	0	Right Side	5mm	Ant 7	DSI7	55990	3625	1	20.59	21.70	1.291	62.9	1.006	0.16	0.026	0.033
	LTE Band 48	20M	QPSK	1	0	Top Side	5mm	Ant 7	DSI7	55990	3625	1	20.62	21.70	1.282	62.9	1.006	0.10	0.074	0.095
	LTE Band 48	20M	QPSK	50	0	Top Side	5mm	Ant 7	DSI7	55990	3625	1	20.59	21.70	1.291	62.9	1.006	-0.01	0.043	0.056
	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	56640+56442	3690+3670.2	1	20.40	21.70	1.349	62.9	1.006	0.08	0.859	1.166
	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	56640	3690	2	20.58	21.70	1.294	62.9	1.006	0.06	0.789	1.027
	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	56640	3690	Cover	20.58	21.70	1.294	62.9	1.006	0.01	0.886	1.153
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 5	DSI7	55990	3625	1	22.13	23.10	1.25	62.9	1.006	0.13	0.657	0.826
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 5	DSI7	55340	3560	1	22.09	23.10	1.262	62.9	1.006	-0.15	0.598	0.759
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 5	DSI7	55830	3609	1	22.12	23.10	1.253	62.9	1.006	0.03	0.663	0.836
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 5	DSI7	56150	3641	1	22.08	23.10	1.265	62.9	1.006	-0.06	0.676	0.860
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 5	DSI7	56640	3690	1	22.09	23.10	1.262	62.9	1.006	0.05	0.644	0.817
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 5	DSI7	55990	3625	1	22.10	23.00	1.23	62.9	1.006	-0.19	0.417	0.515
	LTE Band 48	20M	QPSK	100	0	Front	5mm	Ant 5	DSI7	55990	3625	1	22.01	23.00	1.256	62.9	1.006	-0.01	0.414	0.523
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 5	DSI7	55990	3625	1	22.13	23.10	1.25	62.9	1.006	0.07	0.604	0.759
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 5	DSI7	55340	3560	1	22.09	23.10	1.262	62.9	1.006	-0.03	0.609	0.773
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 5	DSI7	55830	3609	1	22.12	23.10	1.253	62.9	1.006	0.10	0.611	0.770
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 5	DSI7	56150	3641	1	22.08	23.10	1.265	62.9	1.006	-0.11	0.583	0.741
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 5	DSI7	56640	3690	1	22.09	23.10	1.262	62.9	1.006	0.05	0.552	0.700
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 5	DSI7	55990	3625	1	22.10	23.00	1.23	62.9	1.006	0.18	0.390	0.483
	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 5	DSI7	55990	3625	1	22.13	23.10	1.25	62.9	1.006	0.12	0.013	0.016
	LTE Band 48	20M	QPSK	50	0	Left Side	5mm	Ant 5	DSI7	55990	3625	1	22.10	23.00	1.23	62.9	1.006	-0.13	0.011	0.014
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	55990	3625	1	22.13	23.10	1.25	62.9	1.006	0.02	1.030	1.295
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	55340	3560	1	22.09	23.10	1.262	62.9	1.006	-0.00	1.020	1.295
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	55830	3609	1	22.12	23.10	1.253	62.9	1.006	-0.16	0.747	0.941
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	56150	3641	1	22.08	23.10	1.265	62.9	1.006	0.10	0.985	1.253
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	56640	3690	1	22.09	23.10	1.262	62.9	1.006	0.16	0.901	1.144
	LTE Band 48	20M	QPSK	50	0	Right Side	5mm	Ant 5	DSI7	55990	3625	1	22.10	23.00	1.23	62.9	1.006	-0.10	0.792	0.980
	LTE Band 48	20M	QPSK	50	0	Right Side	5mm	Ant 5	DSI7	55340	3560	1	21.92	23.00	1.282	62.9	1.006	-0.08	0.824	1.063
	LTE Band 48	20M	QPSK	50	0	Right Side	5mm	Ant 5	DSI7	55830	3609	1	21.91	23.00	1.285	62.9	1.006	0.07	0.830	1.074
	LTE Band 48	20M	QPSK	50	0	Right Side	5mm	Ant 5	DSI7	56150	3641	1	21.88	23.00	1.294	62.9	1.006	0.16	0.779	1.014
	LTE Band 48	20M	QPSK	50	0	Right Side	5mm	Ant 5	DSI7	56640	3690	1	22.02	23.00	1.253	62.9	1.006	-0.12	0.689	0.868
	LTE Band 48	20M	QPSK	100	0	Right Side	5mm	Ant 5	DSI7	55990	3625	1	22.01	23.00	1.256	62.9	1.006	-0.02	0.785	0.992
	LTE Band 48	20M	QPSK	1	0	Top Side	5mm	Ant 5	DSI7	55990	3625	1	22.13	23.10	1.25	62.9	1.006	-0.15	0.438	0.550
	LTE Band 48	20M	QPSK	50	0	Top Side	5mm	Ant 5	DSI7	55990	3625	1	22.10	23.00	1.23	62.9	1.006	0.03	0.281	0.348
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	56150+55952	3641+3621.2	1	21.98	23.10	1.294	62.9	1.006	0.06	0.904	1.177
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	55990	3625	2	22.13	23.10	1.25	62.9	1.006	0.06	0.859	1.080
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	55990	3625	Cover	22.13	23.10	1.25	62.9	1.006	0.01	0.967	1.215



[FR1 SAR]

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 1	DSI7	507000	2535	1	18.35	19.70	1.365			-0.01	0.344	0.470
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 1	DSI7	507000	2535	1	18.31	19.70	1.377			-0.03	0.458	0.631
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 1	DSI7	507000	2535	1	18.35	19.70	1.365			-0.15	0.775	1.058
45	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 1	DSI7	507000	2535	1	18.31	19.70	1.377			-0.02	0.939	1.293
	FR1 n7	50M	BPSK	270	0	Back	5mm	Ant 1	DSI7	507000	2535	1	18.21	19.70	1.409			0.18	0.733	1.033
	FR1 n7	50M	BPSK	1	1	Left Side	5mm	Ant 1	DSI7	507000	2535	1	18.35	19.70	1.365			-0.15	0.794	1.084
	FR1 n7	50M	BPSK	135	68	Left Side	5mm	Ant 1	DSI7	507000	2535	1	18.31	19.70	1.377			-0.05	0.840	1.157
	FR1 n7	50M	BPSK	270	0	Left Side	5mm	Ant 1	DSI7	507000	2535	1	18.21	19.70	1.409			-0.08	0.809	1.140
	FR1 n7	50M	BPSK	1	1	Right Side	5mm	Ant 1	DSI7	507000	2535	1	18.35	19.70	1.365			-0.08	0.023	0.031
	FR1 n7	50M	BPSK	135	68	Right Side	5mm	Ant 1	DSI7	507000	2535	1	18.31	19.70	1.377			0.10	0.024	0.033
	FR1 n7	50M	BPSK	1	1	Top Side	5mm	Ant 1	DSI7	507000	2535	1	18.35	19.70	1.365			0.02	0.511	0.698
	FR1 n7	50M	BPSK	135	68	Top Side	5mm	Ant 1	DSI7	507000	2535	1	18.31	19.70	1.377			0.01	0.634	0.873
	FR1 n7	50M	BPSK	270	0	Top Side	5mm	Ant 1	DSI7	507000	2535	1	18.21	19.70	1.409			0.07	0.462	0.651
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 2	DSI7	507000	2535	1	18.22	19.20	1.253			-0.11	0.410	0.514
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 2	DSI7	507000	2535	1	18.18	19.20	1.265			0.04	0.437	0.553
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 2	DSI7	507000	2535	1	18.22	19.20	1.253			-0.10	0.660	0.827
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 2	DSI7	507000	2535	1	18.18	19.20	1.265			0.17	0.679	0.859
	FR1 n7	50M	BPSK	270	0	Back	5mm	Ant 2	DSI7	507000	2535	1	18.14	19.20	1.276			-0.13	0.602	0.768
	FR1 n7	50M	BPSK	1	1	Left Side	5mm	Ant 2	DSI7	507000	2535	1	18.22	19.20	1.253			0.14	0.100	0.125
	FR1 n7	50M	BPSK	135	68	Left Side	5mm	Ant 2	DSI7	507000	2535	1	18.18	19.20	1.265			0.13	0.105	0.133
	FR1 n7	50M	BPSK	1	1	Right Side	5mm	Ant 2	DSI7	507000	2535	1	18.22	19.20	1.253			-0.17	0.179	0.224
	FR1 n7	50M	BPSK	135	68	Right Side	5mm	Ant 2	DSI7	507000	2535	1	18.18	19.20	1.265			-0.02	0.182	0.230
	FR1 n7	50M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI7	507000	2535	1	18.22	19.20	1.253			0.02	0.959	1.202
	FR1 n7	50M	BPSK	135	68	Bottom Side	5mm	Ant 2	DSI7	507000	2535	1	18.18	19.20	1.265			-0.01	1.020	1.290
	FR1 n7	50M	BPSK	270	0	Bottom Side	5mm	Ant 2	DSI7	507000	2535	1	18.14	19.20	1.276			-0.10	0.997	1.272
	FR1 n7	50M	BPSK	135	68	Bottom Side	5mm	Ant 2	DSI7	507000	2535	2	18.18	19.20	1.265			0.03	0.844	1.068
	FR1 n7	50M	BPSK	135	68	Bottom Side	5mm	Ant 2	DSI7	507000	2535	Cover	18.18	19.20	1.265			0.09	0.958	1.212
	FR1 n25	40M	BPSK	1	1	Front	5mm	Ant 1	DSI7	376500	1882.5	1	16.88	18.30	1.387			0.00	0.513	0.711
	FR1 n25	40M	BPSK	108	54	Front	5mm	Ant 1	DSI7	376500	1882.5	1	16.84	18.30	1.4			0.08	0.544	0.762
	FR1 n25	40M	BPSK	1	1	Back	5mm	Ant 1	DSI7	376500	1882.5	1	16.88	18.30	1.387			-0.01	0.851	1.180
46	FR1 n25	40M	BPSK	108	54	Back	5mm	Ant 1	DSI7	376500	1882.5	1	16.84	18.30	1.4			-0.05	0.916	1.282
	FR1 n25	40M	BPSK	216	0	Back	5mm	Ant 1	DSI7	376500	1882.5	1	16.73	18.30	1.435			-0.02	0.872	1.251
	FR1 n25	40M	BPSK	1	1	Left Side	5mm	Ant 1	DSI7	376500	1882.5	1	16.88	18.30	1.387			-0.16	0.649	0.900
	FR1 n25	40M	BPSK	108	54	Left Side	5mm	Ant 1	DSI7	376500	1882.5	1	16.84	18.30	1.4			-0.07	0.720	1.008
	FR1 n25	40M	BPSK	216	0	Left Side	5mm	Ant 1	DSI7	376500	1882.5	1	16.73	18.30	1.435			0.13	0.628	0.901
	FR1 n25	40M	BPSK	1	1	Right Side	5mm	Ant 1	DSI7	376500	1882.5	1	16.88	18.30	1.387			0.13	0.020	0.028
	FR1 n25	40M	BPSK	108	54	Right Side	5mm	Ant 1	DSI7	376500	1882.5	1	16.84	18.30	1.4			0.12	0.024	0.034
	FR1 n25	40M	BPSK	1	1	Top Side	5mm	Ant 1	DSI7	376500	1882.5	1	16.88	18.30	1.387			0.07	0.612	0.849
	FR1 n25	40M	BPSK	108	54	Top Side	5mm	Ant 1	DSI7	376500	1882.5	1	16.84	18.30	1.4			0.12	0.657	0.920
	FR1 n25	40M	BPSK	216	0	Top Side	5mm	Ant 1	DSI7	376500	1882.5	1	16.73	18.30	1.435			-0.07	0.620	0.890
	FR1 n25	40M	BPSK	1	1	Front	5mm	Ant 2	DSI7	376500	1882.5	1	18.88	19.60	1.18			-0.05	0.744	0.878
	FR1 n25	40M	BPSK	108	54	Front	5mm	Ant 2	DSI7	376500	1882.5	1	18.85	19.60	1.189			0.08	0.778	0.925
	FR1 n25	40M	BPSK	216	0	Front	5mm	Ant 2	DSI7	376500	1882.5	1	18.73	19.60	1.222			-0.09	0.629	0.769
	FR1 n25	40M	BPSK	1	1	Back	5mm	Ant 2	DSI7	376500	1882.5	1	18.88	19.60	1.18			-0.00	0.715	0.844
	FR1 n25	40M	BPSK	108	54	Back	5mm	Ant 2	DSI7	376500	1882.5	1	18.85	19.60	1.189			-0.03	0.801	0.952
	FR1 n25	40M	BPSK	216	0	Back	5mm	Ant 2	DSI7	376500	1882.5	1	18.73	19.60	1.222			-0.02	0.669	0.818
	FR1 n25	40M	BPSK	1	1	Left Side	5mm	Ant 2	DSI7	376500	1882.5	1	18.88	19.60	1.18			0.06	0.267	0.315
	FR1 n25	40M	BPSK	108	54	Left Side	5mm	Ant 2	DSI7	376500	1882.5	1	18.85	19.60	1.189			0.11	0.296	0.352
	FR1 n25	40M	BPSK	1	1	Right Side	5mm	Ant 2	DSI7	376500	1882.5	1	18.88	19.60	1.18			0.10	0.449	0.529
	FR1 n25	40M	BPSK	108	54	Right Side	5mm	Ant 2	DSI7	376500	1882.5	1	18.85	19.60	1.189			0.13	0.430	0.511
	FR1 n25	40M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI7	376500	1882.5	1	18.88	19.60	1.18			0.02	1.060	1.251
	FR1 n25	40M	BPSK	108	54	Bottom Side	5mm	Ant 2	DSI7	376500	1882.5	1	18.85	19.60	1.189			-0.08	1.070	1.272
	FR1 n25	40M	BPSK	216	0	Bottom Side	5mm	Ant 2	DSI7	376500	1882.5	1	18.73	19.60	1.222			-0.16	0.938	1.147
	FR1 n26	20M	BPSK	1	1	Front	5mm	Ant 0	DSI7	166300	831.5	1	22.54	24.00	1.4			-0.19	0.643	0.900
	FR1 n26	20M	BPSK	50	28	Front	5mm	Ant 0	DSI7	166300	831.5	1	22.43	24.00	1.435			0.12	0.639	0.918
	FR1 n26	20M	BPSK	100	0	Front	5mm	Ant 0	DSI7	166300	831.5	1	22.05	23.50	1.396			0.06	0.618	0.863
	FR1 n26	20M	BPSK	1	1	Back	5mm	Ant 0	DSI7	166300	831.5	1	22.54	24.00	1.4			-0.17	0.824	1.154
47	FR1 n26	20M	BPSK	50	28	Back	5mm	Ant 0	DSI7	166300	831.5	1	22.43	24.00	1.435			-0.12	0.828	1.188
	FR1 n26	20M	BPSK	100	0	Back	5mm	Ant 0	DSI7	166300	831.5	1	22.05	23.50	1.396			-0.18	0.727	1.015
	FR1 n26	20M	BPSK	1	1	Left Side	5mm	Ant 0	DSI7	166300	831.5	1	22.54	24.00	1.4			-0.02	0.843	1.181
	FR1 n26	20M	BPSK	50	28	Left Side	5mm	Ant 0	DSI7	166300	831.5	1	22.43	24.00	1.435			0.03	0.764	1.096
	FR1 n26	20M	BPSK	100	0	Left Side	5mm	Ant 0	DSI7	166300	831.5	1	22.05	23.50	1.396			-0.09	0.696	0.971
	FR1 n26	20M	BPSK	1	1	Right Side	5mm	Ant 0	DSI7	166300	831.5	1	22.54	24.00	1.4			0.03	0.068	0.095
	FR1 n26	20M	BPSK	50	28	Right Side	5mm	Ant 0	DSI7	166300	831.5	1	22.43	24.00	1.435			0.17	0.071	0.103
	FR1 n26	20M	BPSK	1	1	Bottom Side	5mm	Ant 0	DSI7	166300	831.5	1	22.54	24.00	1.4			0.12	0.511	0.715
	FR1 n26	20M	BPSK	50	28	Bottom Side	5mm	Ant 0	DSI7	166300	831.5	1	22.43	24.00	1.435			0.18	0.526	0.755
	FR1 n26	20M	BPSK	1	1	Front	5mm	Ant 1	DSI7	166300	831.5	1	22.66	24.00	1.361			0.04	0.494	0.672
	FR1 n26	20M	BPSK	50	28	Front	5mm	Ant 1	DSI7	166300	831.5	1	22.55	24.00	1.396			0.00	0.483	0.674
	FR1 n26	20M	BPSK	1	1	Back	5mm	Ant 1	DSI7	166300	831.5	1	22.66	24.00	1.361			0.03	0.822	1.119



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	FR1 n26	20M	BPSK	50	28	Back	5mm	Ant 1	DSI7	166300	831.5	1	22.55	24.00	1.396			-0.15	0.798	1.113
	FR1 n26	20M	BPSK	100	0	Back	5mm	Ant 1	DSI7	166300	831.5	1	22.04	23.50	1.4			-0.04	0.691	0.967
	FR1 n26	20M	BPSK	1	1	Left Side	5mm	Ant 1	DSI7	166300	831.5	1	22.66	24.00	1.361			0.16	0.448	0.610
	FR1 n26	20M	BPSK	50	28	Left Side	5mm	Ant 1	DSI7	166300	831.5	1	22.55	24.00	1.396			0.01	0.497	0.694
	FR1 n26	20M	BPSK	1	1	Right Side	5mm	Ant 1	DSI7	166300	831.5	1	22.66	24.00	1.361			-0.11	0.059	0.080
	FR1 n26	20M	BPSK	50	28	Right Side	5mm	Ant 1	DSI7	166300	831.5	1	22.55	24.00	1.396			-0.07	0.062	0.087
	FR1 n26	20M	BPSK	1	1	Top Side	5mm	Ant 1	DSI7	166300	831.5	1	22.66	24.00	1.361			0.03	0.568	0.774
	FR1 n26	20M	BPSK	50	28	Top Side	5mm	Ant 1	DSI7	166300	831.5	1	22.55	24.00	1.396			-0.11	0.626	0.874
	FR1 n26	20M	BPSK	100	0	Top Side	5mm	Ant 1	DSI7	166300	831.5	1	22.04	23.50	1.4			0.07	0.607	0.850
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 1	DSI7	349000	1745	1	16.96	18.10	1.3			-0.15	0.577	0.750
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 1	DSI7	349000	1745	1	16.94	18.10	1.306			0.16	0.509	0.665
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 1	DSI7	349000	1745	1	16.96	18.10	1.3			-0.05	0.985	1.280
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 1	DSI7	349000	1745	1	16.94	18.10	1.306			0.03	0.859	1.122
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 1	DSI7	349000	1745	1	16.83	18.10	1.34			-0.19	0.798	1.069
	FR1 n66	40M	BPSK	1	1	Left Side	5mm	Ant 1	DSI7	349000	1745	1	16.96	18.10	1.3			-0.04	0.575	0.747
	FR1 n66	40M	BPSK	108	54	Left Side	5mm	Ant 1	DSI7	349000	1745	1	16.94	18.10	1.306			-0.17	0.539	0.704
	FR1 n66	40M	BPSK	1	1	Right Side	5mm	Ant 1	DSI7	349000	1745	1	16.96	18.10	1.3			-0.18	0.021	0.027
	FR1 n66	40M	BPSK	108	54	Right Side	5mm	Ant 1	DSI7	349000	1745	1	16.94	18.10	1.306			0.08	0.019	0.025
	FR1 n66	40M	BPSK	1	1	Top Side	5mm	Ant 1	DSI7	349000	1745	1	16.96	18.10	1.3			0.00	0.531	0.690
	FR1 n66	40M	BPSK	108	54	Top Side	5mm	Ant 1	DSI7	349000	1745	1	16.94	18.10	1.306			0.16	0.519	0.678
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 2	DSI7	349000	1745	1	18.99	19.90	1.233			-0.06	0.693	0.854
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 2	DSI7	349000	1745	1	18.95	19.90	1.245			0.09	0.624	0.777
	FR1 n66	40M	BPSK	216	0	Front	5mm	Ant 2	DSI7	349000	1745	1	18.83	19.90	1.279			-0.03	0.559	0.715
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 2	DSI7	349000	1745	1	18.99	19.90	1.233			0.18	0.719	0.887
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	DSI7	349000	1745	1	18.95	19.90	1.245			-0.07	0.658	0.819
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 2	DSI7	349000	1745	1	18.83	19.90	1.279			-0.18	0.633	0.810
	FR1 n66	40M	BPSK	1	1	Left Side	5mm	Ant 2	DSI7	349000	1745	1	18.99	19.90	1.233			0.12	0.182	0.224
	FR1 n66	40M	BPSK	108	54	Left Side	5mm	Ant 2	DSI7	349000	1745	1	18.95	19.90	1.245			-0.07	0.179	0.223
	FR1 n66	40M	BPSK	1	1	Right Side	5mm	Ant 2	DSI7	349000	1745	1	18.99	19.90	1.233			-0.03	0.315	0.388
	FR1 n66	40M	BPSK	108	54	Right Side	5mm	Ant 2	DSI7	349000	1745	1	18.95	19.90	1.245			-0.19	0.333	0.415
48	FR1 n66	40M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI7	349000	1745	1	18.99	19.90	1.233			0.01	1.050	1.295
	FR1 n66	40M	BPSK	108	54	Bottom Side	5mm	Ant 2	DSI7	349000	1745	1	18.95	19.90	1.245			0.00	0.947	1.179
	FR1 n66	40M	BPSK	216	0	Bottom Side	5mm	Ant 2	DSI7	349000	1745	1	18.83	19.90	1.279			-0.16	0.861	1.101
	FR1 n66	40M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI7	349000	1745	2	18.99	19.90	1.233			0.01	0.855	1.054
	FR1 n66	40M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI7	349000	1745	Cover	18.99	19.90	1.233			0.09	0.946	1.166
	FR1 n70	15M	BPSK	1	1	Front	5mm	Ant 1	DSI7	340500	1702.5	1	17.73	18.40	1.167			-0.19	0.610	0.712
	FR1 n70	15M	BPSK	36	22	Front	5mm	Ant 1	DSI7	340500	1702.5	1	17.69	18.40	1.178			-0.12	0.688	0.810
	FR1 n70	15M	BPSK	75	0	Front	5mm	Ant 1	DSI7	340500	1702.5	1	17.59	18.40	1.205			0.08	0.587	0.707
	FR1 n70	15M	BPSK	1	1	Back	5mm	Ant 1	DSI7	340500	1702.5	1	17.73	18.40	1.167			-0.17	0.936	1.092
	FR1 n70	15M	BPSK	36	22	Back	5mm	Ant 1	DSI7	340500	1702.5	1	17.69	18.40	1.178			-0.03	1.080	1.272
	FR1 n70	15M	BPSK	75	0	Back	5mm	Ant 1	DSI7	340500	1702.5	1	17.59	18.40	1.205			0.03	0.865	1.043
	FR1 n70	15M	BPSK	1	1	Left Side	5mm	Ant 1	DSI7	340500	1702.5	1	17.73	18.40	1.167			0.17	0.802	0.935
	FR1 n70	15M	BPSK	36	22	Left Side	5mm	Ant 1	DSI7	340500	1702.5	1	17.69	18.40	1.178			-0.19	0.882	1.039
	FR1 n70	15M	BPSK	75	0	Left Side	5mm	Ant 1	DSI7	340500	1702.5	1	17.59	18.40	1.205			0.10	0.647	0.780
	FR1 n70	15M	BPSK	1	1	Right Side	5mm	Ant 1	DSI7	340500	1702.5	1	17.73	18.40	1.167			-0.15	0.020	0.023
	FR1 n70	15M	BPSK	36	22	Right Side	5mm	Ant 1	DSI7	340500	1702.5	1	17.69	18.40	1.178			0.06	0.024	0.028
	FR1 n70	15M	BPSK	1	1	Top Side	5mm	Ant 1	DSI7	340500	1702.5	1	17.73	18.40	1.167			0.05	0.631	0.736
	FR1 n70	15M	BPSK	36	22	Top Side	5mm	Ant 1	DSI7	340500	1702.5	1	17.69	18.40	1.178			-0.15	0.651	0.767
	FR1 n70	15M	BPSK	1	1	Front	5mm	Ant 2	DSI7	340500	1702.5	1	18.90	20.10	1.318			0.01	0.628	0.828
	FR1 n70	15M	BPSK	36	22	Front	5mm	Ant 2	DSI7	340500	1702.5	1	18.88	20.10	1.324			0.01	0.647	0.857
	FR1 n70	15M	BPSK	75	0	Front	5mm	Ant 2	DSI7	340500	1702.5	1	18.80	20.10	1.349			-0.07	0.599	0.808
	FR1 n70	15M	BPSK	1	1	Back	5mm	Ant 2	DSI7	340500	1702.5	1	18.90	20.10	1.318			-0.17	0.691	0.911
	FR1 n70	15M	BPSK	36	22	Back	5mm	Ant 2	DSI7	340500	1702.5	1	18.88	20.10	1.324			-0.16	0.744	0.985
	FR1 n70	15M	BPSK	75	0	Back	5mm	Ant 2	DSI7	340500	1702.5	1	18.80	20.10	1.349			0.12	0.633	0.854
	FR1 n70	15M	BPSK	1	1	Left Side	5mm	Ant 2	DSI7	340500	1702.5	1	18.90	20.10	1.318			-0.06	0.140	0.184
	FR1 n70	15M	BPSK	36	22	Left Side	5mm	Ant 2	DSI7	340500	1702.5	1	18.88	20.10	1.324			-0.05	0.173	0.229
	FR1 n70	15M	BPSK	1	1	Right Side	5mm	Ant 2	DSI7	340500	1702.5	1	18.90	20.10	1.318			-0.06	0.360	0.475
	FR1 n70	15M	BPSK	36	22	Right Side	5mm	Ant 2	DSI7	340500	1702.5	1	18.88	20.10	1.324			0.12	0.351	0.465
	FR1 n70	15M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI7	340500	1702.5	1	18.90	20.10	1.318			0.00	0.933	1.229
49	FR1 n70	15M	BPSK	36	22	Bottom Side	5mm	Ant 2	DSI7	340500	1702.5	1	18.88	20.10	1.324			0.01	0.976	1.292
	FR1 n70	15M	BPSK	75	0	Bottom Side	5mm	Ant 2	DSI7	340500	1702.5	1	18.80	20.10	1.349			0.00	0.879	1.186
	FR1 n71	35M	BPSK	1	1	Front	5mm	Ant 0	DSI7	136100	680.5	1	22.65	24.00	1.365			-0.09	0.274	0.374
	FR1 n71	35M	BPSK	90	45	Front	5mm	Ant 0	DSI7	136100	680.5	1	22.64	24.00	1.368			-0.05	0.357	0.489
	FR1 n71	35M	BPSK	1	1	Back	5mm	Ant 0	DSI7	136100	680.5	1	22.65	24.00	1.365			0.07	0.379	0.518
50	FR1 n71	35M	BPSK	90	45	Back	5mm	Ant 0	DSI7	136100	680.5	1	22.64	24.00	1.368			-0.06	0.516	0.706
	FR1 n71	35M	BPSK	1	1	Left Side	5mm	Ant 0	DSI7	136100	680.5	1	22.65	24.00	1.365			-0.15	0.483	0.660
	FR1 n71	35M	BPSK	90	45	Left Side	5mm	Ant 0	DSI7	136100	680.5	1	22.64	24.00	1.368			-0.12	0.506	0.693
	FR1 n71	35M	BPSK	1	1	Right Side	5mm	Ant 0	DSI7	136100	680.5	1	22.65	24.00	1.365			-0.12	0.059	0.080
	FR1 n71	35M	BPSK	90	45	Right Side	5mm	Ant 0	DSI7	136100	680.5	1	22.64	24.00	1.368			0.18	0.081	0.111
	FR1 n71	35M	BPSK	1	1	Bottom Side	5mm	Ant 0	DSI7	136100	680.5	1	22.65	24.00	1.365			0.18	0.261	0.356
	FR1 n71	35M	BPSK	90	45	Bottom Side	5mm	Ant 0	DSI7	136100	680.5	1	22.64	24.00	1.368			-0.16	0.351	0.480
	FR1 n71	35M	BPSK	1	1	Front	5mm	Ant 1	DSI7	136100	680.5	1	22.65	24.00	1.365			-0.07	0.102	0.139
	FR1 n71	35M																		



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	FR1 n71	35M	BPSK	1	1	Back	5mm	Ant 1	DSI7	136100	680.5	1	22.65	24.00	1.365			0.07	0.230	0.314
	FR1 n71	35M	BPSK	90	45	Back	5mm	Ant 1	DSI7	136100	680.5	1	22.64	24.00	1.368			0.15	0.259	0.354
	FR1 n71	35M	BPSK	1	1	Left Side	5mm	Ant 1	DSI7	136100	680.5	1	22.65	24.00	1.365			-0.01	0.147	0.200
	FR1 n71	35M	BPSK	90	45	Left Side	5mm	Ant 1	DSI7	136100	680.5	1	22.64	24.00	1.368			0.06	0.310	0.424
	FR1 n71	35M	BPSK	1	1	Right Side	5mm	Ant 1	DSI7	136100	680.5	1	22.65	24.00	1.365			-0.11	0.037	0.051
	FR1 n71	35M	BPSK	90	45	Right Side	5mm	Ant 1	DSI7	136100	680.5	1	22.64	24.00	1.368			-0.17	0.042	0.057
	FR1 n71	35M	BPSK	1	1	Top Side	5mm	Ant 1	DSI7	136100	680.5	1	22.65	24.00	1.365			-0.05	0.178	0.243
	FR1 n71	35M	BPSK	90	45	Top Side	5mm	Ant 1	DSI7	136100	680.5	1	22.64	24.00	1.368			0.08	0.268	0.367
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 0	DSI7	518598	2592.99	1	21.38	22.30	1.236			0.17	0.598	0.739
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 0	DSI7	518598	2592.99	1	21.35	22.30	1.245			0.13	0.552	0.688
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 0	DSI7	518598	2592.99	1	21.38	22.30	1.236			-0.03	0.569	0.703
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 0	DSI7	518598	2592.99	1	21.35	22.30	1.245			0.15	0.560	0.697
	FR1 n41	100M	BPSK	1	1	Left Side	5mm	Ant 0	DSI7	518598	2592.99	1	21.38	22.30	1.236			-0.02	1.040	1.285
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 0	DSI7	518598	2592.99	1	21.35	22.30	1.245			-0.08	0.870	1.083
	FR1 n41	100M	BPSK	270	0	Left Side	5mm	Ant 0	DSI7	518598	2592.99	1	21.24	22.30	1.276			-0.14	0.788	1.005
	FR1 n41	100M	BPSK	1	1	Right Side	5mm	Ant 0	DSI7	518598	2592.99	1	21.38	22.30	1.236			0.02	0.055	0.068
	FR1 n41	100M	BPSK	135	69	Right Side	5mm	Ant 0	DSI7	518598	2592.99	1	21.35	22.30	1.245			0.06	0.062	0.077
	FR1 n41	100M	BPSK	1	1	Bottom Side	5mm	Ant 0	DSI7	518598	2592.99	1	21.38	22.30	1.236			0.01	0.741	0.916
	FR1 n41	100M	BPSK	135	69	Bottom Side	5mm	Ant 0	DSI7	518598	2592.99	1	21.35	22.30	1.245			-0.07	0.650	0.809
	FR1 n41	100M	BPSK	270	0	Bottom Side	5mm	Ant 0	DSI7	518598	2592.99	1	21.24	22.30	1.276			-0.07	0.584	0.745
	FR1 n41	100M	BPSK	1	1	Left Side	5mm	Ant 0	DSI7	518598	2592.99	2	21.38	22.30	1.236			0.06	0.796	0.984
	FR1 n41	100M	BPSK	1	1	Left Side	5mm	Ant 0	DSI7	518598	2592.99	Cover	21.38	22.30	1.236			0.01	0.896	1.107
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 1	DSI7	518598	2592.99	1	17.88	18.60	1.18			-0.18	0.489	0.577
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 1	DSI7	518598	2592.99	1	17.85	18.60	1.189			0.07	0.538	0.640
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 1	DSI7	518598	2592.99	1	17.88	18.60	1.18			0.00	0.776	0.915
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 1	DSI7	518598	2592.99	1	17.85	18.60	1.189			0.02	1.040	1.237
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 1	DSI7	518598	2592.99	1	17.81	18.60	1.199			0.17	0.800	0.959
	FR1 n41	100M	BPSK	1	1	Left Side	5mm	Ant 1	DSI7	518598	2592.99	1	17.88	18.60	1.18			0.01	0.793	0.936
51	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 1	DSI7	518598	2592.99	1	17.85	18.60	1.189			-0.10	1.090	1.296
	FR1 n41	100M	BPSK	270	0	Left Side	5mm	Ant 1	DSI7	518598	2592.99	1	17.81	18.60	1.199			-0.14	0.877	1.051
	FR1 n41	100M	BPSK	1	1	Right Side	5mm	Ant 1	DSI7	518598	2592.99	1	17.88	18.60	1.18			0.09	0.019	0.023
	FR1 n41	100M	BPSK	135	69	Right Side	5mm	Ant 1	DSI7	518598	2592.99	1	17.85	18.60	1.189			0.06	0.026	0.031
	FR1 n41	100M	BPSK	1	1	Top Side	5mm	Ant 1	DSI7	518598	2592.99	1	17.88	18.60	1.18			-0.09	0.402	0.474
	FR1 n41	100M	BPSK	135	69	Top Side	5mm	Ant 1	DSI7	518598	2592.99	1	17.85	18.60	1.189			-0.08	0.416	0.494
	FR1 n41_HPUE	100M	BPSK	135	69	Left Side	5mm	Ant 1	DSI7	518598	2592.99	1	20.90	21.60	1.175	50.0	1.0	0.04	1.050	1.234
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 2	DSI7	518598	2592.99	1	18.55	19.80	1.334			-0.18	0.400	0.533
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 2	DSI7	518598	2592.99	1	18.51	19.80	1.346			0.13	0.470	0.633
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 2	DSI7	518598	2592.99	1	18.55	19.80	1.334			-0.16	0.580	0.774
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 2	DSI7	518598	2592.99	1	18.51	19.80	1.346			-0.10	0.586	0.789
	FR1 n41	100M	BPSK	1	1	Left Side	5mm	Ant 2	DSI7	518598	2592.99	1	18.55	19.80	1.334			0.12	0.051	0.067
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 2	DSI7	518598	2592.99	1	18.51	19.80	1.346			-0.06	0.061	0.082
	FR1 n41	100M	BPSK	1	1	Right Side	5mm	Ant 2	DSI7	518598	2592.99	1	18.55	19.80	1.334			-0.07	0.150	0.199
	FR1 n41	100M	BPSK	135	69	Right Side	5mm	Ant 2	DSI7	518598	2592.99	1	18.51	19.80	1.346			0.11	0.145	0.196
	FR1 n41	100M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI7	518598	2592.99	1	18.55	19.80	1.334			-0.05	0.957	1.277
	FR1 n41	100M	BPSK	135	69	Bottom Side	5mm	Ant 2	DSI7	518598	2592.99	1	18.51	19.80	1.346			0.05	0.854	1.149
	FR1 n41	100M	BPSK	270	0	Bottom Side	5mm	Ant 2	DSI7	518598	2592.99	1	18.41	19.80	1.377			-0.13	0.867	1.194
	FR1 n41_HPUE	100M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI7	518598	2592.99	1	21.53	22.80	1.34	50.0	1.0	0.01	0.934	1.252
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 6	DSI7	518598	2592.99	1	15.98	16.10	1.028			0.03	0.385	0.396
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 6	DSI7	518598	2592.99	1	15.95	16.10	1.035			-0.05	0.275	0.284
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 6	DSI7	518598	2592.99	1	15.98	16.10	1.028			0.15	0.575	0.592
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 6	DSI7	518598	2592.99	1	15.95	16.10	1.035			0.01	0.442	0.457
	FR1 n41	100M	BPSK	1	1	Left Side	5mm	Ant 6	DSI7	518598	2592.99	1	15.98	16.10	1.028			-0.15	0.002	0.002
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 6	DSI7	518598	2592.99	1	15.95	16.10	1.035			-0.15	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Right Side	5mm	Ant 6	DSI7	518598	2592.99	1	15.98	16.10	1.028			-0.11	1.010	1.038
	FR1 n41	100M	BPSK	135	69	Right Side	5mm	Ant 6	DSI7	518598	2592.99	1	15.95	16.10	1.035			0.01	0.698	0.722
	FR1 n41	100M	BPSK	270	0	Right Side	5mm	Ant 6	DSI7	518598	2592.99	1	15.83	16.10	1.064			-0.15	0.707	0.752
	FR1 n41	100M	BPSK	1	1	Top Side	5mm	Ant 6	DSI7	518598	2592.99	1	15.98	16.10	1.028			0.04	0.119	0.122
	FR1 n41	100M	BPSK	135	69	Top Side	5mm	Ant 6	DSI7	518598	2592.99	1	15.95	16.10	1.035			0.03	0.064	0.067
	FR1 n41_HPUE	100M	BPSK	1	1	Right Side	5mm	Ant 6	DSI7	518598	2592.99	1	17.95	19.10	1.303	50.0	1.0	0.06	0.785	1.023
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 7	DSI7	656000	3840	1	16.99	18.40	1.384			-0.17	0.452	0.625
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 7	DSI7	656000	3840	1	16.95	18.40	1.396			0.14	0.388	0.542
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 7	DSI7	656000	3840	1	16.99	18.40	1.384			0.14	0.542	0.750
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 7	DSI7	656000	3840	1	16.95	18.40	1.396			-0.11	0.480	0.671
52	FR1 n77	100M	BPSK	1	1	Left Side	5mm	Ant 7	DSI7	656000	3840	1	16.99	18.40	1.384			-0.07	0.934	1.293
	FR1 n77	100M	BPSK	135	69	Left Side	5mm	Ant 7	DSI7	656000	3840	1	16.95	18.40	1.396			-0.01	0.772	1.077
	FR1 n77	100M	BPSK	270	0	Left Side	5mm	Ant 7	DSI7	656000	3840	1	16.87	18.40	1.422			0.16	0.817	1.162
	FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 7	DSI7	656000	3840	1	16.99	18.40	1.384			-0.16	0.008	0.011
	FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 7	DSI7	656000	3840	1	16.95	18.40	1.396			0.19	0.005	0.007
	FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 7	DSI7	656000	3840	1	16.99	18.40	1.384			-0.07	0.060	0.082
	FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 7	DSI7	656000	3840	1	16.95	18.40	1.396			0.05	0.045	0.063
	FR1 n77_HPUE	100M	BPSK	1	1	Left Side	5mm	Ant 7	DSI7	656000	3840	1	20.03	21.40	1.371	50.0	1.0			



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FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 5	DSI7	656000	3840	1	18.89	19.60	1.178			-0.14	0.613	0.722
FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 5	DSI7	656000	3840	1	18.85	19.60	1.189			0.18	0.554	0.659
FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 5	DSI7	656000	3840	1	18.89	19.60	1.178			0.04	0.734	0.865
FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 5	DSI7	656000	3840	1	18.85	19.60	1.189			-0.12	0.572	0.680
FR1 n77	100M	BPSK	270	0	Back	5mm	Ant 5	DSI7	656000	3840	1	18.80	19.60	1.202			-0.14	0.640	0.769
FR1 n77	100M	BPSK	1	1	Left Side	5mm	Ant 5	DSI7	656000	3840	1	18.89	19.60	1.178			-0.07	0.005	0.005
FR1 n77	100M	BPSK	135	69	Left Side	5mm	Ant 5	DSI7	656000	3840	1	18.85	19.60	1.189			0.06	0.002	0.003
FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 5	DSI7	656000	3840	1	18.89	19.60	1.178			-0.03	1.090	1.284
FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 5	DSI7	656000	3840	1	18.85	19.60	1.189			0.06	0.959	1.141
FR1 n77	100M	BPSK	270	0	Right Side	5mm	Ant 5	DSI7	656000	3840	1	18.80	19.60	1.202			0.16	0.919	1.104
FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 5	DSI7	656000	3840	1	18.89	19.60	1.178			-0.04	0.536	0.631
FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 5	DSI7	656000	3840	1	18.85	19.60	1.189			0.06	0.468	0.557
FR1 n77_HPUE	100M	BPSK	1	1	Right Side	5mm	Ant 5	DSI7	656000	3840	1	21.93	22.60	1.167	50.0	1.0	0.04	1.030	1.202
FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 5	DSI7	656000	3840	2	18.89	19.60	1.178			0.09	0.855	1.007
FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 5	DSI7	656000	3840	Cover	18.89	19.60	1.178			0.01	0.978	1.152
FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 8	DSI7	656000	3840	1	16.05	17.40	1.365			-0.05	0.448	0.611
FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 8	DSI7	656000	3840	1	15.99	17.40	1.384			0.13	0.493	0.682
FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 8	DSI7	656000	3840	1	16.05	17.40	1.365			-0.15	0.427	0.583
FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 8	DSI7	656000	3840	1	15.99	17.40	1.384			0.11	0.455	0.629
FR1 n77	100M	BPSK	1	1	Left Side	5mm	Ant 8	DSI7	656000	3840	1	16.05	17.40	1.365			0.05	0.002	0.003
FR1 n77	100M	BPSK	135	69	Left Side	5mm	Ant 8	DSI7	656000	3840	1	15.99	17.40	1.384			-0.15	0.001	0.002
FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 8	DSI7	656000	3840	1	16.05	17.40	1.365			-0.11	0.764	1.043
FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 8	DSI7	656000	3840	1	15.99	17.40	1.384			-0.06	0.934	1.293
FR1 n77	100M	BPSK	270	0	Right Side	5mm	Ant 8	DSI7	656000	3840	1	15.88	17.40	1.419			-0.02	0.907	1.287
FR1 n77	100M	BPSK	1	1	Bottom Side	5mm	Ant 8	DSI7	656000	3840	1	16.05	17.40	1.365			0.02	0.068	0.092
FR1 n77	100M	BPSK	135	69	Bottom Side	5mm	Ant 8	DSI7	656000	3840	1	15.99	17.40	1.384			0.00	0.068	0.094
FR1 n77_HPUE	100M	BPSK	135	69	Right Side	5mm	Ant 8	DSI7	656000	3840	1	19.01	20.40	1.377	50.0	1.0	0.01	0.918	1.264
FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 8	DSI7	656000	3840	2	15.99	17.40	1.384			0.09	0.876	1.212
FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 8	DSI7	656000	3840	Cover	15.99	17.40	1.384			0.05	0.886	1.226
FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 4	DSI7	656000	3840	1	18.90	20.00	1.288			0.08	0.343	0.442
FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 4	DSI7	656000	3840	1	18.88	20.00	1.294			-0.14	0.403	0.521
FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 4	DSI7	656000	3840	1	18.90	20.00	1.288			-0.11	0.444	0.572
FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 4	DSI7	656000	3840	1	18.88	20.00	1.294			0.11	0.449	0.581
FR1 n77	100M	BPSK	1	1	Left Side	5mm	Ant 4	DSI7	656000	3840	1	18.90	20.00	1.288			0.04	0.048	0.062
FR1 n77	100M	BPSK	135	69	Left Side	5mm	Ant 4	DSI7	656000	3840	1	18.88	20.00	1.294			0.08	0.049	0.063
FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 4	DSI7	656000	3840	1	18.90	20.00	1.288			0.10	0.170	0.219
FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 4	DSI7	656000	3840	1	18.88	20.00	1.294			-0.09	0.187	0.242
FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 4	DSI7	656000	3840	1	18.90	20.00	1.288			0.06	0.906	1.167
FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 4	DSI7	656000	3840	1	18.88	20.00	1.294			0.03	0.989	1.280
FR1 n77	100M	BPSK	270	0	Top Side	5mm	Ant 4	DSI7	656000	3840	1	18.77	20.00	1.327			-0.14	0.789	1.046
FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 4	DSI7	656000	3840	2	18.88	20.00	1.294			0.06	0.788	1.020
FR1 n77_HPUE	100M	BPSK	135	69	Top Side	5mm	Ant 4	DSI7	656000	3840	1	21.85	23.00	1.303	50.0	1.0	0.01	0.955	1.244
FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 4	DSI7	656000	3840	Cover	18.88	20.00	1.294			0.04	0.901	1.166

<PA (Reference Designator)>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Actual Duty Cycle %	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Note
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	20850	2510	1	19.28	20	1.180	100	1.000	100	-0.1	0.148	0.175	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	21100	2535	1	18.74	19.9	1.306	100	1.000	100	0.15	0.485	0.633	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	21350	2560	1	18.89	19.8	1.233	100	1.000	100	-0.17	0.342	0.422	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	21100	2535	1	18.76	20	1.330	100	1.000	100	-0.04	0.563	0.749	PA (Reference Designator)
	LTE Band 25	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	26140	1860	1	18.76	19.9	1.300	100	1.000	100	-0.05	0.445	0.579	PA (Reference Designator)
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	26140	1860	1	19.19	20	1.205	100	1.000	100	-0.13	0.413	0.498	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI7	132572	1770	1	19.34	19.9	1.138	100	1.000	100	-0.01	0.469	0.534	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI7	132072	1720	1	16.52	18	1.406	100	1.000	100	-0.09	0.569	0.8	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI7	132322	1745	1	20.97	22	1.268	100	1.000	100	0.05	0.502	0.637	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 6	DSI7	132572	1770	1	19.1	20	1.230	100	1.000	100	0.02	0.455	0.56	PA (Reference Designator)
	LTE Band 48	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI7	56640	3690	1	20.49	21.7	1.321	62.9	1.006	63.3	-0.13	0.482	0.641	PA (Reference Designator)
	LTE Band 48	20M	QPSK	1	0	Right Side	5mm	Ant 5	DSI7	55990	3625	1	20.24	21	1.191	62.9	1.006	63.3	0.17	0.526	0.63	PA (Reference Designator)
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 1	DSI7	507000	2535	1	18.05	19.7	1.462	100	1.000	100	0.06	0.628	0.918	PA (Reference Designator)
	FR1 n25	40M	BPSK	108	54	Bottom Side	5mm	Ant 2	DSI7	376500	1882.5	1	18.11	19.6	1.409	100	1.000	100	-0.04	0.566	0.797	PA (Reference Designator)
	FR1 n66	40M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI7	349000	1745	1	18.91	19.9	1.256	100	1.000	100	-0.15	0.659	0.828	PA (Reference Designator)
	FR1 n41	100M	BPSK	1	1	Left Side	5mm	Ant 0	DSI7	518598	2592.99	1	21.53	22.3	1.194	100	1.000	100	0.11	0.818	0.977	PA (Reference Designator)
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 1	DSI7	518598	2592.99	1	16.78	18.6	1.521	100	1.000	100	-0.02	0.810	1.232	PA (Reference Designator)
	FR1 n77	100M	BPSK	1	1	Left Side	5mm	Ant 7	DSI7	656000	3840	1	17.89	18.4	1.125	100	1.000	100	0.04	0.695	0.782	PA (Reference Designator)
	FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 5	DSI7	656000	3840	1	18.3	19.6	1.349	100	1.000	100	-0.18	0.840	1.133	PA (Reference Designator)



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FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 8	DS17	656000	3840	1	15.99	17.4	1.384	100	1.000	100	-0.16	0.660	0.913	PA (Reference Designator)
FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 4	DS17	656000	3840	1	18.7	20	1.349	100	1.000	100	-0.06	0.797	1.075	PA (Reference Designator)

<MIMO SAR>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)
	FR1 n77 PC2	100M	BPSK	1	1	Front	5mm	Ant 7+5	DS17	656000	3840	1	19.94	21.4	1.399	50.000	1	0.07	0.345	0.483
	FR1 n77 PC2	100M	BPSK	135	69	Front	5mm	Ant 7+5	DS17	656000	3840	1	19.92	21.4	1.407	50.000	1	0.18	0.304	0.428
	FR1 n77 PC2	100M	BPSK	1	1	Back	5mm	Ant 7+5	DS17	656000	3840	1	19.94	21.4	1.399	50.000	1	-0.1	0.455	0.637
	FR1 n77 PC2	100M	BPSK	135	69	Back	5mm	Ant 7+5	DS17	656000	3840	1	19.92	21.4	1.407	50.000	1	0.01	0.421	0.592
	FR1 n77 PC2	100M	BPSK	1	1	Left Side	5mm	Ant 7+5	DS17	656000	3840	1	19.94	21.4	1.399	50.000	1	-0.15	0.751	1.051
	FR1 n77 PC2	100M	BPSK	135	69	Left Side	5mm	Ant 7+5	DS17	656000	3840	1	19.92	21.4	1.407	50.000	1	0.19	0.599	0.843
	FR1 n77 PC2	100M	BPSK	270	0	Left Side	5mm	Ant 7+5	DS17	656000	3840	1	19.84	21.4	1.432	50.000	1	0.07	0.679	0.972
	FR1 n77 PC2	100M	BPSK	1	1	Right Side	5mm	Ant 7+5	DS17	656000	3840	1	19.94	21.4	1.399	50.000	1	-0.18	0.384	0.537
	FR1 n77 PC2	100M	BPSK	135	69	Right Side	5mm	Ant 7+5	DS17	656000	3840	1	19.92	21.4	1.407	50.000	1	0.03	0.294	0.414
	FR1 n77 PC2	100M	BPSK	1	1	Top Side	5mm	Ant 7+5	DS17	656000	3840	1	19.94	21.4	1.399	50.000	1	-0.15	0.190	0.266
	FR1 n77 PC2	100M	BPSK	135	69	Top Side	5mm	Ant 7+5	DS17	656000	3840	1	19.92	21.4	1.407	50.000	1	-0.15	0.094	0.132
	FR1 n77_PC1.5	100M	BPSK	1	1	Left Side	5mm	Ant 7+5	DS17	656000	3840	1	22.98	24.4	1.387	25.000	1	0.11	0.723	1.003

[WLAN 2.4GHz_5GHz SAR]

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6+3(6)	Hotspot	1	2412	1	17.75	19.00	1.334	97.03	1.031	0.06	0.413	0.568
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6+3(6)	Hotspot	1	2412	1	17.75	19.00	1.334	97.03	1.031	0.01	0.501	0.689
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 6+3(6)	Hotspot	1	2412	1	17.75	19.00	1.334	97.03	1.031	0.03	0.948	1.304
53	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 6+3(6)	Hotspot	6	2437	1	17.49	19.00	1.416	97.03	1.031	-0.17	0.988	1.442
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 6+3(6)	Hotspot	1	2412	1	17.75	19.00	1.334	97.03	1.031	0.01	0.478	0.657
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 6+3(6)	Hotspot	6	2437	2	17.49	19.00	1.416	97.03	1.031	0.06	0.822	1.200
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 6+3(6)	Hotspot	6	2437	Cover	17.49	19.00	1.416	97.03	1.031	0.01	0.921	1.345
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 6+3(3)	Hotspot	11	2462	1	17.39	19.00	1.449	97.03	1.031	0.09	0.945	1.412
	WLAN2.4GHz	802.11n-HT40 MCS0	Right Side	5mm	Ant 6+3(3)	Hotspot	3	2422	1	17.48	19.00	1.419	100.0	1.0	0.02	0.835	1.185
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(4)	Hotspot	42	5210	1	15.83	17.50	1.469	100.0	1.0	0.01	0.293	0.430
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	Hotspot	42	5210	1	15.83	17.50	1.469	100.0	1.0	0.10	0.453	0.665
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+4(4)	Hotspot	42	5210	1	15.83	17.50	1.469	100.0	1.0	-0.17	0.042	0.062
54	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+4(4)	Hotspot	42	5210	1	15.83	17.50	1.469	100.0	1.0	-0.14	0.802	1.178
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+4(4)	Hotspot	42	5210	1	15.83	17.50	1.469	100.0	1.0	-0.01	0.133	0.195
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+4(4)	Hotspot	42	5210	2	15.83	17.50	1.469	100.0	1.0	0.09	0.689	1.012
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+4(4)	Hotspot	42	5210	Cover	15.83	17.50	1.469	100.0	1.0	0.01	0.758	1.114
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+4(4)	Hotspot	155	5775	1	15.60	17.00	1.38	100.0	1.0	0.18	0.449	0.620
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+4(4)	Hotspot	155	5775	1	15.60	17.00	1.38	100.0	1.0	0.14	0.560	0.773
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+4(4)	Hotspot	155	5775	1	15.60	17.00	1.38	100.0	1.0	-0.17	0.090	0.124
55	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+4(4)	Hotspot	155	5775	1	15.60	17.00	1.38	100.0	1.0	0.02	0.843	1.163
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+4(4)	Hotspot	155	5775	1	15.60	17.00	1.38	100.0	1.0	-0.05	0.519	0.716
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+4(4)	Hotspot	155	5775	2	15.60	17.00	1.38	100.0	1.0	-0.03	0.712	0.983
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+4(4)	Hotspot	155	5775	Cover	15.60	17.00	1.38	100.0	1.0	0.09	0.806	1.112

[Bluetooth SAR]

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	BT6.0 ASK 1Mbps	Front	5mm	Ant 6	Hotspot	38	2440	1	19.88	21.00	1.294	100.0	1.0	0.08	0.467	0.604
	Bluetooth	BT6.0 ASK 1Mbps	Back	5mm	Ant 6	Hotspot	38	2440	1	19.88	21.00	1.294	100.0	1.0	0.01	0.641	0.829
56	Bluetooth	BT6.0 ASK 1Mbps	Right Side	5mm	Ant 6	Hotspot	38	2440	1	19.88	21.00	1.294	100.0	1.0	-0.07	0.972	1.258
	Bluetooth	BT6.0 ASK 1Mbps	Right Side	5mm	Ant 6	Hotspot	2	2404	1	18.12	20.00	1.542	100.0	1.0	-0.08	0.713	1.099
	Bluetooth	BT6.0 ASK 1Mbps	Right Side	5mm	Ant 6	Hotspot	76	2478	1	18.49	20.00	1.416	100.0	1.0	0.10	0.691	0.978
	Bluetooth	BT6.0 ASK 1Mbps	Top Side	5mm	Ant 6	Hotspot	38	2440	1	19.88	21.00	1.294	100.0	1.0	-0.18	0.110	0.142
	Bluetooth	BT6.0 ASK 1Mbps	Front	5mm	Ant 3	Hotspot	38	2440	1	16.71	18.00	1.346	100.0	1.0	-0.03	0.225	0.303
	Bluetooth	BT6.0 ASK 1Mbps	Back	5mm	Ant 3	Hotspot	38	2440	1	16.71	18.00	1.346	100.0	1.0	-0.03	0.189	0.254
	Bluetooth	BT6.0 ASK 1Mbps	Right Side	5mm	Ant 3	Hotspot	38	2440	1	16.71	18.00	1.346	100.0	1.0	0.08	0.100	0.135
	Bluetooth	BT6.0 ASK 1Mbps	Top Side	5mm	Ant 3	Hotspot	38	2440	1	16.71	18.00	1.346	100.0	1.0	0.02	0.393	0.529



16.3 Body Worn Accessory SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
57	GSM850	GPRS 3 Tx slots	Front	5mm		Ant 0	DSI3	189	836.4	1	28.60	29.50	1.23	0.03	0.593	0.730
	GSM850	GPRS 3 Tx slots	Back	5mm		Ant 0	DSI3	189	836.4	1	28.60	29.50	1.23	0.16	0.774	0.952
	GSM850	GPRS 3 Tx slots	Back	5mm		Ant 0	DSI3	128	824.2	1	28.48	29.50	1.265	0.05	0.768	0.971
	GSM850	GPRS 3 Tx slots	Back	5mm		Ant 0	DSI3	251	848.8	1	28.53	29.50	1.25	0.03	0.946	1.182
	GSM850	GPRS 3 Tx slots	Front	5mm		Ant 1	DSI3	189	836.4	1	28.62	30.00	1.374	0.03	0.534	0.734
	GSM850	GPRS 3 Tx slots	Back	5mm		Ant 1	DSI3	189	836.4	1	28.62	30.00	1.374	-0.01	0.725	0.996
	GSM850	GPRS 3 Tx slots	Back	5mm		Ant 1	DSI3	128	824.2	1	28.54	30.00	1.4	0.09	0.593	0.830
	GSM850	GPRS 3 Tx slots	Back	5mm		Ant 1	DSI3	251	848.8	1	28.46	30.00	1.426	0.06	0.676	0.963
58	GSM1900	GPRS 4 Tx slots	Front	5mm		Ant 1	DSI3	661	1880	1	21.36	22.10	1.186	0.09	0.692	0.820
	GSM1900	GPRS 4 Tx slots	Front	5mm		Ant 1	DSI3	512	1850.2	1	21.31	22.10	1.199	0.17	0.599	0.719
	GSM1900	GPRS 4 Tx slots	Front	5mm		Ant 1	DSI3	810	1909.8	1	21.33	22.10	1.194	0.11	0.619	0.740
	GSM1900	GPRS 4 Tx slots	Front	14mm		Ant 1	DSI4	661	1880	1	23.78	25.00	1.324	0.03	0.385	0.510
	GSM1900	GPRS 4 Tx slots	Back	5mm		Ant 1	DSI3	661	1880	1	21.36	22.10	1.186	-0.09	1.090	1.293
	GSM1900	GPRS 4 Tx slots	Back	5mm		Ant 1	DSI3	512	1850.2	1	21.31	22.10	1.199	0.13	0.929	1.114
	GSM1900	GPRS 4 Tx slots	Back	5mm		Ant 1	DSI3	810	1909.8	1	21.33	22.10	1.194	-0.03	1.010	1.206
	GSM1900	GPRS 4 Tx slots	Back	5mm	Headset	Ant 1	DSI3	661	1880	1	21.36	22.10	1.186	0.03	1.050	1.245
	GSM1900	GPRS 4 Tx slots	Back	17mm		Ant 1	DSI4	661	1880	1	23.78	25.00	1.324	0.03	0.452	0.598
	GSM1900	GPRS 4 Tx slots	Back	5mm		Ant 1	DSI3	661	1880	2	21.36	22.10	1.186	0.01	0.855	1.014
	GSM1900	GPRS 4 Tx slots	Back	5mm		Ant 1	DSI3	661	1880	Cover	21.36	22.10	1.186	0.05	0.956	1.134
	GSM1900	GPRS 2 Tx slots	Front	5mm		Ant 2	DSI3	661	1880	1	26.24	27.50	1.337	-0.18	0.827	1.106
	GSM1900	GPRS 2 Tx slots	Front	5mm		Ant 2	DSI3	512	1850.2	1	26.15	27.50	1.365	0.03	0.617	0.842
	GSM1900	GPRS 2 Tx slots	Front	5mm		Ant 2	DSI3	810	1909.8	1	26.08	27.50	1.387	-0.16	0.850	1.179
	GSM1900	GPRS 2 Tx slots	Back	5mm		Ant 2	DSI3	661	1880	1	26.24	27.50	1.337	0.01	0.956	1.278
	GSM1900	GPRS 2 Tx slots	Back	5mm		Ant 2	DSI3	512	1850.2	1	26.15	27.50	1.365	-0.17	0.731	0.998
	GSM1900	GPRS 2 Tx slots	Back	5mm		Ant 2	DSI3	810	1909.8	1	26.08	27.50	1.387	0.01	0.918	1.273
	GSM1900	GPRS 2 Tx slots	Back	5mm	Headset	Ant 2	DSI3	661	1880	1	26.24	27.50	1.337	0.03	0.933	1.247

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
59	WCDMA II	RMC 12.2Kbps	Front	5mm		Ant 1	DSI3	9400	1880	1	17.57	18.40	1.211	0.16	0.628	0.761
	WCDMA II	RMC 12.2Kbps	Front	14mm		Ant 1	DSI4	9400	1880	1	21.48	23.00	1.419	0.03	0.377	0.535
	WCDMA II	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	9400	1880	1	17.57	18.40	1.211	0.06	1.010	1.223
	WCDMA II	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	9262	1852.4	1	17.55	18.40	1.216	0.01	1.050	1.277
	WCDMA II	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	9538	1907.6	1	17.54	18.40	1.219	0.19	0.786	0.958
	WCDMA II	RMC 12.2Kbps	Back	5mm	Headset	Ant 1	DSI3	9400	1880	1	17.57	18.40	1.211	0.03	0.989	1.198
	WCDMA II	RMC 12.2Kbps	Back	17mm		Ant 1	DSI4	9400	1880	1	21.48	23.00	1.419	0.01	0.469	0.666
	WCDMA II	RMC 12.2Kbps	Front	5mm		Ant 2	DSI3	9400	1880	1	21.52	22.60	1.282	-0.05	0.828	1.061
	WCDMA II	RMC 12.2Kbps	Front	5mm		Ant 2	DSI3	9262	1852.4	1	21.43	22.60	1.309	0.08	0.858	1.123
	WCDMA II	RMC 12.2Kbps	Front	5mm		Ant 2	DSI3	9538	1907.6	1	21.47	22.60	1.297	-0.12	0.908	1.177
	WCDMA II	RMC 12.2Kbps	Front	14mm		Ant 2	DSI4	9400	1880	1	22.75	24.00	1.334	0.04	0.285	0.380
	WCDMA II	RMC 12.2Kbps	Back	5mm		Ant 2	DSI3	9400	1880	1	21.52	22.60	1.282	0.05	0.928	1.189
60	WCDMA II	RMC 12.2Kbps	Back	5mm		Ant 2	DSI3	9262	1852.4	1	21.43	22.60	1.309	-0.14	0.963	1.260
	WCDMA II	RMC 12.2Kbps	Back	5mm		Ant 2	DSI3	9538	1907.6	1	21.47	22.60	1.297	0.09	0.983	1.275
	WCDMA II	RMC 12.2Kbps	Back	5mm	Headset	Ant 2	DSI3	9400	1880	1	21.52	22.60	1.282	0.03	0.911	1.168
	WCDMA II	RMC 12.2Kbps	Back	17mm		Ant 2	DSI4	9400	1880	1	22.75	24.00	1.334	0.01	0.218	0.291
	WCDMA IV	RMC 12.2Kbps	Front	5mm		Ant 1	DSI3	1413	1732.6	1	17.59	18.60	1.262	0.05	0.599	0.755
	WCDMA IV	RMC 12.2Kbps	Front	14mm		Ant 1	DSI4	1413	1732.6	1	21.48	23.00	1.419	0.09	0.525	0.745
	WCDMA IV	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	1413	1732.6	1	17.59	18.60	1.262	-0.05	1.000	1.262
	WCDMA IV	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	1312	1712.4	1	17.56	18.60	1.271	-0.06	1.010	1.284
	WCDMA IV	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	1513	1752.6	1	17.51	18.60	1.285	0.03	0.970	1.246
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Headset	Ant 1	DSI3	1413	1732.6	1	17.59	18.60	1.262	0.02	0.988	1.247
	WCDMA IV	RMC 12.2Kbps	Back	17mm		Ant 1	DSI4	1413	1732.6	1	21.48	23.00	1.419	0.01	0.529	0.751
	WCDMA IV	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	1312	1712.4	2	17.56	18.60	1.271	0.01	0.789	1.003
	WCDMA IV	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	1312	1712.4	Cover	17.56	18.60	1.271	0.06	0.945	1.201
	WCDMA IV	RMC 12.2Kbps	Front	5mm		Ant 2	DSI3	1413	1732.6	1	21.48	22.20	1.18	0.12	0.968	1.142
	WCDMA IV	RMC 12.2Kbps	Front	5mm		Ant 2	DSI3	1312	1712.4	1	21.43	22.20	1.194	0.01	0.958	1.144
	WCDMA IV	RMC 12.2Kbps	Front	5mm		Ant 2	DSI3	1513	1752.6	1	21.41	22.20	1.199	0.09	0.948	1.137
	WCDMA IV	RMC 12.2Kbps	Front	14mm		Ant 2	DSI4	1413	1732.6	1	22.72	24.00	1.343	0.05	0.209	0.281
	WCDMA IV	RMC 12.2Kbps	Back	5mm		Ant 2	DSI3	1413	1732.6	1	21.48	22.20	1.18	0.13	1.080	1.274
	WCDMA IV	RMC 12.2Kbps	Back	5mm		Ant 2	DSI3	1312	1712.4	1	21.43	22.20	1.194	-0.03	1.060	1.266
	WCDMA IV	RMC 12.2Kbps	Back	5mm		Ant 2	DSI3	1513	1752.6	1	21.41	22.20	1.199	-0.06	1.060	1.271
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Headset	Ant 2	DSI3	1413	1732.6	1	21.48	22.20	1.18	0.03	1.030	1.215



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	WCDMA IV	RMC 12.2Kbps	Back	17mm		Ant 2	DSI4	1413	1732.6	1	22.72	24.00	1.343	0.02	0.185	0.248
	WCDMA V	RMC 12.2Kbps	Front	5mm		Ant 0	DSI3	4182	836.4	1	23.10	24.00	1.23	0.07	0.693	0.852
	WCDMA V	RMC 12.2Kbps	Front	5mm		Ant 0	DSI3	4132	826.4	1	23.05	24.00	1.245	0.01	0.658	0.820
	WCDMA V	RMC 12.2Kbps	Front	5mm		Ant 0	DSI3	4233	846.6	1	23.03	24.00	1.25	-0.04	0.672	0.840
	WCDMA V	RMC 12.2Kbps	Front	14mm		Ant 0	DSI4	4182	836.4	1	23.10	24.00	1.23	0.01	0.264	0.325
	WCDMA V	RMC 12.2Kbps	Back	5mm		Ant 0	DSI3	4182	836.4	1	23.10	24.00	1.23	-0.06	0.947	1.165
	WCDMA V	RMC 12.2Kbps	Back	5mm		Ant 0	DSI3	4132	826.4	1	23.05	24.00	1.245	0.07	0.895	1.114
	WCDMA V	RMC 12.2Kbps	Back	5mm		Ant 0	DSI3	4233	846.6	1	23.03	24.00	1.25	-0.11	0.897	1.121
	WCDMA V	RMC 12.2Kbps	Back	17mm		Ant 0	DSI4	4182	836.4	1	23.10	24.00	1.23	-0.03	0.188	0.231
	WCDMA V	RMC 12.2Kbps	Front	5mm		Ant 1	DSI3	4182	836.4	1	23.22	24.00	1.197	0.03	0.658	0.787
	WCDMA V	RMC 12.2Kbps	Front	14mm		Ant 1	DSI4	4182	836.4	1	23.22	24.00	1.197	0.02	0.475	0.569
61	WCDMA V	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	4182	836.4	1	23.22	24.00	1.197	0.16	1.040	1.245
	WCDMA V	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	4132	826.4	1	23.15	24.00	1.216	-0.14	0.984	1.196
	WCDMA V	RMC 12.2Kbps	Back	5mm		Ant 1	DSI3	4233	846.6	1	23.18	24.00	1.208	-0.13	1.000	1.208
	WCDMA V	RMC 12.2Kbps	Back	5mm	Headset	Ant 1	DSI3	4182	836.4	1	23.22	24.00	1.197	0.03	1.010	1.209
	WCDMA V	RMC 12.2Kbps	Back	17mm		Ant 1	DSI4	4182	836.4	1	23.22	24.00	1.197	0.03	0.492	0.589

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Headset	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	5mm		Ant 0	DSI3	21100	2535	1	22.29	23.00	1.178			0.13	0.443	0.522
	LTE Band 7	20M	QPSK	50	0	Front	5mm		Ant 0	DSI3	21100	2535	1	21.23	22.00	1.194			0.09	0.290	0.346
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	21100	2535	1	22.29	23.00	1.178			0.01	0.478	0.563
	LTE Band 7	20M	QPSK	50	0	Back	5mm		Ant 0	DSI3	21100	2535	1	21.23	22.00	1.194			0.10	0.295	0.352
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	21100+20902	2535+2515.2	1	22.13	23.00	1.222			0.03	0.421	0.514
	LTE Band 7	20M	QPSK	1	0	Front	5mm		Ant 1	DSI3	21100	2535	1	18.76	19.90	1.3			0.12	0.598	0.778
	LTE Band 7	20M	QPSK	50	0	Front	5mm		Ant 1	DSI3	21100	2535	1	18.73	19.90	1.309			-0.13	0.380	0.498
	LTE Band 7	20M	QPSK	1	0	Front	14mm		Ant 1	DSI4	21100	2535	1	22.88	24.00	1.294			0.02	0.255	0.330
62	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	21100	2535	1	18.76	19.90	1.3			0.03	0.997	1.296
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	20850	2510	1	18.72	19.90	1.312			0.18	0.971	1.274
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	21350	2560	1	18.70	19.90	1.318			0.09	0.939	1.238
	LTE Band 7	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	21100	2535	1	18.73	19.90	1.309			-0.16	0.627	0.821
	LTE Band 7	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	20850	2510	1	18.72	19.90	1.312			-0.17	0.632	0.830
	LTE Band 7	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	21350	2560	1	18.69	19.90	1.321			0.13	0.617	0.814
	LTE Band 7	20M	QPSK	100	0	Back	5mm		Ant 1	DSI3	21100	2535	1	18.69	19.90	1.321			-0.04	0.622	0.821
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Headset	Ant 1	DSI3	21100	2535	1	18.76	19.90	1.3			0.03	0.966	1.256
	LTE Band 7	20M	QPSK	1	0	Back	17mm		Ant 1	DSI4	21100	2535	1	22.88	24.00	1.294			-0.03	0.319	0.413
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	21100+20902	2535+2515.2	1	18.66	19.90	1.33			0.05	0.876	1.165
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	21100	2535	2	18.76	19.90	1.3			0.06	0.842	1.095
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	21100	2535	Cover	18.76	19.90	1.3			-0.03	0.914	1.188
	LTE Band 7	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	21100	2535	1	20.45	21.30	1.216			-0.09	0.601	0.731
	LTE Band 7	20M	QPSK	50	0	Front	5mm		Ant 2	DSI3	21100	2535	1	20.40	21.30	1.23			-0.19	0.370	0.455
	LTE Band 7	20M	QPSK	1	0	Front	14mm		Ant 2	DSI4	21100	2535	1	22.91	24.00	1.285			-0.03	0.218	0.280
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	21100	2535	1	20.45	21.30	1.216			0.12	0.990	1.204
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	20850	2510	1	20.38	21.30	1.236			0.01	0.894	1.105
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	21350	2560	1	20.42	21.30	1.225			0.07	1.040	1.274
	LTE Band 7	20M	QPSK	50	0	Back	5mm		Ant 2	DSI3	21100	2535	1	20.40	21.30	1.23			0.19	0.631	0.776
	LTE Band 7	20M	QPSK	100	0	Back	5mm		Ant 2	DSI3	21100	2535	1	20.36	21.30	1.242			0.12	0.631	0.783
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Headset	Ant 2	DSI3	21100	2535	1	20.45	21.30	1.216			0.03	0.966	1.175
	LTE Band 7	20M	QPSK	1	0	Back	17mm		Ant 2	DSI4	21100	2535	1	22.91	24.00	1.285			0.02	0.254	0.326
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	21350+21152	2560+2540.2	1	20.26	21.30	1.271			0.02	0.926	1.177
	LTE Band 7	20M	QPSK	1	0	Front	5mm		Ant 6	DSI3	21100	2535	1	20.83	22.00	1.309			-0.16	0.775	1.014
	LTE Band 7	20M	QPSK	1	0	Front	5mm		Ant 6	DSI3	20850	2510	1	20.74	22.00	1.337			0.11	0.752	1.005
	LTE Band 7	20M	QPSK	1	0	Front	5mm		Ant 6	DSI3	21350	2560	1	20.77	22.00	1.327			-0.03	0.705	0.935
	LTE Band 7	20M	QPSK	50	0	Front	5mm		Ant 6	DSI3	21100	2535	1	19.88	21.00	1.294			0.13	0.488	0.631
	LTE Band 7	20M	QPSK	100	0	Front	5mm		Ant 6	DSI3	21100	2535	1	19.78	21.00	1.324			0.17	0.492	0.651
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	21100	2535	1	20.83	22.00	1.309			-0.01	0.859	1.124
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	20850	2510	1	20.74	22.00	1.337			0.01	0.775	1.036
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	21350	2560	1	20.77	22.00	1.327			-0.13	0.805	1.069
	LTE Band 7	20M	QPSK	50	0	Back	5mm		Ant 6	DSI3	21100	2535	1	19.88	21.00	1.294			0.04	0.548	0.710
	LTE Band 7	20M	QPSK	100	0	Back	5mm		Ant 6	DSI3	21100	2535	1	19.78	21.00	1.324			-0.17	0.548	0.726
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	21100+20902	2535+2515.2	1	20.51	22.00	1.409			0.06	0.763	1.075
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	21100	2535	2	20.83	22.00	1.309			0.09	0.749	0.980
	LTE Band 7	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	21100	2535	Cover	20.83	22.00	1.309			0.01	0.811	1.062
	LTE Band 12	10M	QPSK	1	0	Front	5mm		Ant 0	DSI3	23095	707.5	1	22.30	24.00	1.479			0.14	0.396	0.585
	LTE Band 12	10M	QPSK	25	0	Front	5mm		Ant 0	DSI3	23095	707.5	1	21.28	23.00	1.486			-0.18	0.238	0.354
	LTE Band 12	10M	QPSK	1	0	Back	5mm		Ant 0	DSI3	23095	707.5	1	22.30	24.00	1.479			-0.01	0.532	0.787
	LTE Band 12	10M	QPSK	25	0	Back	5mm		Ant 0	DSI3	23095	707.5	1	21.28	23.00	1.486			-0.13	0.325	0.482
	LTE Band 12	10M	QPSK	1	0	Front	5mm		Ant 1	DSI3	23095	707.5	1	22.78	24.00	1.324			0.14	0.412	0.546
	LTE Band 12	10M	QPSK	25	0	Front	5mm		Ant 1	DSI3	23095	707.5	1	21.85	23.00	1.303			-0.01	0.253	0.330



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63	LTE Band 12	10M	QPSK	1	0	Back	5mm		Ant 1	DSI3	23095	707.5	1	22.78	24.00	1.324			0.04	0.748	0.990
	LTE Band 12	10M	QPSK	25	0	Back	5mm		Ant 1	DSI3	23095	707.5	1	21.85	23.00	1.303			-0.17	0.466	0.607
	LTE Band 12	10M	QPSK	50	0	Back	5mm		Ant 1	DSI3	23095	707.5	1	21.68	23.00	1.355			-0.02	0.458	0.621
	LTE Band 12	10M	QPSK	1	0	Back	5mm		Ant 1	DSI3	23095	707.5	2	22.78	24.00	1.324			0.06	0.655	0.867
	LTE Band 12	10M	QPSK	1	0	Back	5mm		Ant 1	DSI3	23095	707.5	Cover	22.78	24.00	1.324			0.01	0.713	0.944
	LTE Band 13	10M	QPSK	1	0	Front	5mm		Ant 0	DSI3	23230	782	1	22.23	24.00	1.503			0.02	0.523	0.786
	LTE Band 13	10M	QPSK	25	0	Front	5mm		Ant 0	DSI3	23230	782	1	21.28	23.00	1.486			-0.18	0.333	0.495
64	LTE Band 13	10M	QPSK	1	0	Back	5mm		Ant 0	DSI3	23230	782	1	22.23	24.00	1.503			-0.14	0.754	1.133
	LTE Band 13	10M	QPSK	25	0	Back	5mm		Ant 0	DSI3	23230	782	1	21.28	23.00	1.486			0.10	0.482	0.717
	LTE Band 13	10M	QPSK	50	0	Back	5mm		Ant 0	DSI3	23230	782	1	21.19	23.00	1.517			0.05	0.480	0.729
	LTE Band 13	10M	QPSK	1	0	Back	5mm		Ant 0	DSI3	23230	782	2	22.23	24.00	1.503			0.06	0.685	1.030
	LTE Band 13	10M	QPSK	1	0	Back	5mm		Ant 0	DSI3	23230	782	Cover	22.23	24.00	1.503			0.01	0.721	1.084
	LTE Band 25	20M	QPSK	1	0	Front	5mm		Ant 0	DSI3	26340	1880	1	20.99	22.00	1.262			-0.03	0.714	0.901
	LTE Band 25	20M	QPSK	1	0	Front	5mm		Ant 0	DSI3	26140	1860	1	20.93	22.00	1.279			-0.03	0.657	0.840
	LTE Band 25	20M	QPSK	1	0	Front	5mm		Ant 0	DSI3	26590	1905	1	20.98	22.00	1.265			0.00	0.810	1.024
	LTE Band 25	20M	QPSK	50	0	Front	5mm		Ant 0	DSI3	26340	1880	1	20.92	22.00	1.282			-0.10	0.431	0.552
	LTE Band 25	20M	QPSK	100	0	Front	5mm		Ant 0	DSI3	26340	1880	1	20.75	22.00	1.334			0.15	0.426	0.569
	LTE Band 25	20M	QPSK	1	0	Front	14mm		Ant 0	DSI4	26340	1880	1	22.05	23.00	1.245			0.03	0.312	0.388
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	26340	1880	1	20.99	22.00	1.262			-0.11	0.880	1.110
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	26140	1860	1	20.93	22.00	1.279			0.17	0.835	1.068
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	26590	1905	1	20.98	22.00	1.265			-0.08	1.020	1.290
	LTE Band 25	20M	QPSK	50	0	Back	5mm		Ant 0	DSI3	26340	1880	1	20.92	22.00	1.282			-0.08	0.550	0.705
	LTE Band 25	20M	QPSK	100	0	Back	5mm		Ant 0	DSI3	26340	1880	1	20.75	22.00	1.334			-0.10	0.557	0.742
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Headset	Ant 0	DSI3	26340	1880	1	20.99	22.00	1.262			0.03	0.866	1.093
	LTE Band 25	20M	QPSK	1	0	Back	17mm		Ant 0	DSI4	26340	1880	1	22.05	23.00	1.245			0.05	0.285	0.355
	LTE Band 2	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	19100+18902	1900+1880.2	1	20.59	22.00	1.384			0.03	0.836	1.157
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	26590	1905	2	20.98	22.00	1.265			0.03	0.846	1.070
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	26590	1905	Cover	20.98	22.00	1.265			0.05	0.955	1.208
	LTE Band 25	20M	QPSK	1	0	Front	5mm		Ant 1	DSI3	26340	1880	1	17.02	17.80	1.197			-0.13	0.624	0.747
	LTE Band 25	20M	QPSK	50	0	Front	5mm		Ant 1	DSI3	26340	1880	1	16.97	17.80	1.211			0.10	0.403	0.488
	LTE Band 25	20M	QPSK	1	0	Front	14mm		Ant 1	DSI4	26340	1880	1	22.95	24.00	1.274			0.01	0.388	0.494
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	26340	1880	1	17.02	17.80	1.197			0.10	1.010	1.209
65	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	26140	1860	1	16.98	17.80	1.208			-0.06	1.070	1.293
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	26590	1905	1	16.91	17.80	1.227			0.01	1.010	1.239
	LTE Band 25	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	26340	1880	1	16.97	17.80	1.211			0.09	0.610	0.738
	LTE Band 25	20M	QPSK	100	0	Back	5mm		Ant 1	DSI3	26140	1860	1	16.78	17.80	1.265			0.18	0.626	0.792
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Headset	Ant 1	DSI3	26340	1880	1	17.02	17.80	1.197			0.02	0.993	1.189
	LTE Band 25	20M	QPSK	1	0	Back	17mm		Ant 1	DSI4	26340	1880	1	22.95	24.00	1.274			0.06	0.489	0.623
	LTE Band 2	20M	QPSK	1	99	Back	5mm		Ant 1	DSI3	18700+18898	1860+1879.8	1	16.78	17.80	1.265			0.03	0.936	1.184
	LTE Band 25	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	26340	1880	1	21.13	22.10	1.25			0.03	0.781	0.976
	LTE Band 25	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	26140	1860	1	21.06	22.10	1.271			-0.04	0.851	1.082
	LTE Band 25	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	26590	1905	1	21.09	22.10	1.262			-0.03	0.846	1.068
	LTE Band 25	20M	QPSK	50	0	Front	5mm		Ant 2	DSI3	26340	1880	1	21.08	22.10	1.265			0.18	0.486	0.615
	LTE Band 25	20M	QPSK	100	0	Front	5mm		Ant 2	DSI3	26340	1880	1	20.98	22.10	1.294			-0.05	0.491	0.635
	LTE Band 25	20M	QPSK	1	0	Front	14mm		Ant 2	DSI4	26340	1880	1	23.02	24.00	1.253			0.03	0.299	0.375
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	26340	1880	1	21.13	22.10	1.25			0.11	0.949	1.187
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	26140	1860	1	21.06	22.10	1.271			-0.14	0.982	1.248
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	26590	1905	1	21.09	22.10	1.262			-0.03	1.010	1.275
	LTE Band 25	20M	QPSK	50	0	Back	5mm		Ant 2	DSI3	26340	1880	1	21.08	22.10	1.265			-0.16	0.580	0.733
	LTE Band 25	20M	QPSK	100	0	Back	5mm		Ant 2	DSI3	26340	1880	1	20.98	22.10	1.294			-0.07	0.570	0.738
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Headset	Ant 2	DSI3	26340	1880	1	21.13	22.10	1.25			0.03	0.933	1.166
	LTE Band 25	20M	QPSK	1	0	Back	17mm		Ant 2	DSI4	26340	1880	1	23.02	24.00	1.253			-0.01	0.248	0.311
	LTE Band 2	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	19100+18902	1900+1880.2	1	20.89	22.10	1.321			0.06	0.876	1.157
	LTE Band 25	20M	QPSK	1	0	Front	5mm		Ant 6	DSI3	26340	1880	1	21.11	22.00	1.227			0.08	0.719	0.882
	LTE Band 25	20M	QPSK	1	0	Front	5mm		Ant 6	DSI3	26140	1860	1	21.08	22.00	1.236			-0.15	0.772	0.954
	LTE Band 25	20M	QPSK	1	0	Front	5mm		Ant 6	DSI3	26590	1905	1	21.05	22.00	1.245			-0.18	0.708	0.882
	LTE Band 25	20M	QPSK	50	0	Front	5mm		Ant 6	DSI3	26340	1880	1	20.21	21.00	1.199			-0.09	0.451	0.540
	LTE Band 25	20M	QPSK	100	0	Front	5mm		Ant 6	DSI3	26340	1880	1	20.13	21.00	1.222			0.02	0.461	0.563
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	26340	1880	1	21.11	22.00	1.227			-0.17	0.768	0.943
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	26140	1860	1	21.08	22.00	1.236			-0.04	0.808	0.999
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	26590	1905	1	21.05	22.00	1.245			-0.18	0.734	0.914
	LTE Band 25	20M	QPSK	50	0	Back	5mm		Ant 6	DSI3	26340	1880	1	20.21	21.00	1.199			-0.18	0.479	0.575
	LTE Band 25	20M	QPSK	100	0	Back	5mm		Ant 6	DSI3	26340	1880	1	20.13	21.00	1.222			0.14	0.475	0.580
	LTE Band 2	20M	QPSK	1	99	Back	5mm		Ant 6	DSI3	18700+18898	1860+1879.8	1	20.97	22.00	1.268			0.03	0.736	0.933
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	26140	1860	2	21.08	22.00	1.236			0.09	0.722	0.892
	LTE Band 25	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	26140	1860	Cover	21.08	22.00	1.236			0.01	0.785	0.970
	LTE Band 26	15M	QPSK	1	0	Front	5mm		Ant 0	DSI3	26865	831.5	1	22.33	23.60	1.34			-0.05	0.698	0.935
	LTE Band 26	15M	QPSK	36	0	Front	5mm		Ant 0	DSI3	26865	831.5	1	21.44	23.00	1.432			0.14	0.437	0.626
	LTE Band 26	15M	QPSK	75	0	Front	5mm		Ant 0	DSI3	26865	831.5	1	21.27	23.00	1.489			0.01	0.416	0.620
	LTE Band 26	15M	QPSK	1	0	Front	14mm		Ant 0	DSI4	26865	831.5	1	22.33	24.00	1.469			0.03	0.245	0.360
66	LTE Band 26	15M	QPSK	1	0	Back	5mm		Ant 0	DSI3	26865	831.5	1	22.33	23.60	1.34			-0.04	0.967	1.296



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	LTE Band 26	15M	QPSK	1	0	Back	5mm	Headset	Ant 0	DSI3	26865	831.5	1	22.33	23.60	1.34			0.03	0.946	1.268
	LTE Band 26	15M	QPSK	1	0	Back	17mm		Ant 0	DSI4	26865	831.5	1	22.33	24.00	1.469			-0.06	0.185	0.272
	LTE Band 5	10M	QPSK	1	49	Back	5mm		Ant 0	DSI3	20475+20574	831.5+841.4	1	22.19	23.60	1.384			0.03	0.854	1.182
	LTE Band 26	15M	QPSK	1	0	Back	5mm		Ant 0	DSI3	26865	831.5	2	22.33	23.60	1.34			0.01	0.826	1.107
	LTE Band 26	15M	QPSK	1	0	Back	5mm		Ant 0	DSI3	26865	831.5	Cover	22.33	23.60	1.34			-0.02	0.913	1.223
	LTE Band 26	15M	QPSK	1	0	Front	5mm		Ant 1	DSI3	26865	831.5	1	22.94	23.90	1.247			-0.08	0.718	0.895
	LTE Band 26	15M	QPSK	36	0	Front	5mm		Ant 1	DSI3	26865	831.5	1	21.78	23.00	1.324			-0.06	0.453	0.600
	LTE Band 26	15M	QPSK	75	0	Front	5mm		Ant 1	DSI3	26865	831.5	1	21.83	23.00	1.309			0.01	0.439	0.575
	LTE Band 26	15M	QPSK	1	0	Front	14mm		Ant 1	DSI4	26865	831.5	1	22.94	24.00	1.276			0.06	0.486	0.620
	LTE Band 26	15M	QPSK	1	0	Back	5mm		Ant 1	DSI3	26865	831.5	1	22.94	23.90	1.247			0.03	1.030	1.284
	LTE Band 26	15M	QPSK	36	0	Back	5mm		Ant 1	DSI3	26865	831.5	1	21.78	23.00	1.324			0.13	0.644	0.852
	LTE Band 26	15M	QPSK	75	0	Back	5mm		Ant 1	DSI3	26865	831.5	1	21.83	23.00	1.309			0.05	0.628	0.822
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Headset	Ant 1	DSI3	26865	831.5	1	22.94	23.90	1.247			0.03	1.010	1.259
	LTE Band 26	15M	QPSK	1	0	Back	17mm		Ant 1	DSI4	26865	831.5	1	22.94	24.00	1.276			-0.02	0.511	0.652
	LTE Band 5	10M	QPSK	1	49	Back	5mm		Ant 1	DSI3	20475+20574	831.5+841.4	1	22.54	23.90	1.368			0.06	0.856	1.171
	LTE Band 26	15M	QPSK	1	0	Back	5mm		Ant 1	DSI3	26865	831.5	2	22.94	23.90	1.247			0.06	0.946	1.180
	LTE Band 26	15M	QPSK	1	0	Back	5mm		Ant 1	DSI3	26865	831.5	Cover	22.94	23.90	1.247			0.04	0.918	1.145
	LTE Band 66	20M	QPSK	1	0	Front	5mm		Ant 0	DSI3	132322	1745	1	19.81	21.10	1.346			0.13	0.566	0.762
	LTE Band 66	20M	QPSK	50	0	Front	5mm		Ant 0	DSI3	132322	1745	1	19.77	21.10	1.358			-0.06	0.329	0.446
	LTE Band 66	20M	QPSK	1	0	Front	14mm		Ant 0	DSI4	132322	1745	1	21.86	23.00	1.3			0.03	0.241	0.313
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	132322	1745	1	19.81	21.10	1.346			0.10	0.796	1.071
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	132072	1720	1	19.73	21.10	1.371			-0.08	0.925	1.269
67	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	132572	1770	1	19.77	21.10	1.358			-0.02	0.947	1.286
	LTE Band 66	20M	QPSK	50	0	Back	5mm		Ant 0	DSI3	132322	1745	1	19.77	21.10	1.358			0.11	0.497	0.675
	LTE Band 66	20M	QPSK	100	0	Back	5mm		Ant 0	DSI3	132322	1745	1	19.67	21.10	1.39			0.17	0.502	0.697
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Headset	Ant 0	DSI3	132322	1745	1	19.81	21.10	1.346			0.03	0.788	1.061
	LTE Band 66	20M	QPSK	1	0	Back	17mm		Ant 0	DSI4	132322	1745	1	21.86	23.00	1.3			0.01	0.198	0.257
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	132572	1770	2	19.77	21.10	1.358			0.02	0.823	1.118
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	132572	1770	Cover	19.77	21.10	1.358			0.08	0.911	1.237
	LTE Band 66	20M	QPSK	1	0	Front	5mm		Ant 1	DSI3	132322	1745	1	16.92	18.00	1.282			-0.13	0.597	0.765
	LTE Band 66	20M	QPSK	50	0	Front	5mm		Ant 1	DSI3	132322	1745	1	16.89	18.00	1.291			-0.12	0.383	0.494
	LTE Band 66	20M	QPSK	1	0	Front	14mm		Ant 1	DSI4	132322	1745	1	22.41	24.00	1.442			0.05	0.508	0.733
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	132322	1745	1	16.92	18.00	1.282			-0.15	0.948	1.215
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	132072	1720	1	16.89	18.00	1.291			0.03	0.989	1.277
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	132572	1770	1	16.83	18.00	1.309			-0.10	0.652	0.854
	LTE Band 66	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	132322	1745	1	16.89	18.00	1.291			-0.06	0.597	0.771
	LTE Band 66	20M	QPSK	100	0	Back	5mm		Ant 1	DSI3	132322	1745	1	16.78	18.00	1.324			-0.05	0.609	0.806
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Headset	Ant 1	DSI3	132322	1745	1	16.92	18.00	1.282			0.02	0.933	1.196
	LTE Band 66	20M	QPSK	1	0	Back	17mm		Ant 1	DSI4	132322	1745	1	22.41	24.00	1.442			0.03	0.511	0.737
	LTE Band 66	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	132322	1745	1	21.53	22.80	1.34			-0.12	0.827	1.108
	LTE Band 66	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	132072	1720	1	21.50	22.80	1.349			-0.16	0.832	1.122
	LTE Band 66	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	132572	1770	1	21.48	22.80	1.355			-0.18	0.768	1.041
	LTE Band 66	20M	QPSK	50	0	Front	5mm		Ant 2	DSI3	132322	1745	1	21.50	22.80	1.349			0.11	0.514	0.693
	LTE Band 66	20M	QPSK	100	0	Front	5mm		Ant 2	DSI3	132322	1745	1	21.48	22.80	1.355			-0.12	0.519	0.703
	LTE Band 66	20M	QPSK	1	0	Front	14mm		Ant 2	DSI4	132322	1745	1	23.06	24.00	1.242			0.06	0.209	0.260
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	132322	1745	1	21.53	22.80	1.34			-0.11	0.954	1.278
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	132072	1720	1	21.50	22.80	1.349			-0.18	0.939	1.267
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	132572	1770	1	21.48	22.80	1.355			0.13	0.890	1.206
	LTE Band 66	20M	QPSK	50	0	Back	5mm		Ant 2	DSI3	132322	1745	1	21.50	22.80	1.349			-0.02	0.607	0.818
	LTE Band 66	20M	QPSK	50	0	Back	5mm		Ant 2	DSI3	132072	1720	1	21.43	22.80	1.371			0.13	0.616	0.845
	LTE Band 66	20M	QPSK	50	0	Back	5mm		Ant 2	DSI3	132572	1770	1	21.31	22.80	1.409			-0.02	0.582	0.820
	LTE Band 66	20M	QPSK	100	0	Back	5mm		Ant 2	DSI3	132322	1745	1	21.48	22.80	1.355			-0.15	0.612	0.829
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Headset	Ant 2	DSI3	132322	1745	1	21.53	22.80	1.34			0.02	0.939	1.258
	LTE Band 66	20M	QPSK	1	0	Back	17mm		Ant 2	DSI4	132322	1745	1	23.06	24.00	1.242			-0.01	0.179	0.222
	LTE Band 66	20M	QPSK	1	0	Front	5mm		Ant 6	DSI3	132322	1745	1	21.24	22.00	1.191			0.06	0.745	0.887
	LTE Band 66	20M	QPSK	1	0	Front	5mm		Ant 6	DSI3	132072	1720	1	21.19	22.00	1.205			0.11	0.727	0.876
	LTE Band 66	20M	QPSK	1	0	Front	5mm		Ant 6	DSI3	132572	1770	1	21.15	22.00	1.216			-0.07	0.785	0.955
	LTE Band 66	20M	QPSK	50	0	Front	5mm		Ant 6	DSI3	132322	1745	1	20.15	21.00	1.216			-0.10	0.497	0.605
	LTE Band 66	20M	QPSK	100	0	Front	5mm		Ant 6	DSI3	132322	1745	1	20.03	21.00	1.25			0.01	0.495	0.619
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	132322	1745	1	21.24	22.00	1.191			-0.18	0.758	0.902
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	132072	1720	1	21.19	22.00	1.205			0.14	0.805	0.971
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	132572	1770	1	21.15	22.00	1.216			-0.01	0.826	1.004
	LTE Band 66	20M	QPSK	50	0	Back	5mm		Ant 6	DSI3	132322	1745	1	20.15	21.00	1.216			0.00	0.524	0.637
	LTE Band 66	20M	QPSK	100	0	Back	5mm		Ant 6	DSI3	132322	1745	1	20.03	21.00	1.25			-0.15	0.524	0.656
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	132572	1770	2	21.15	22.00	1.216			0.03	0.718	0.873
	LTE Band 66	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	132572	1770	Cover	21.15	22.00	1.216			0.01	0.795	0.967
	LTE Band 71	20M	QPSK	1	0	Front	5mm		Ant 0	DSI3	133297	680.5	1	22.37	24.00	1.455			0.10	0.375	0.546
	LTE Band 71	20M	QPSK	50	0	Front	5mm		Ant 0	DSI3	133297	680.5	1	21.32	23.00	1.472			0.01	0.237	0.350
68	LTE Band 71	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	133297	680.5	1	22.37	24.00	1.455			-0.09	0.520	0.757
	LTE Band 71	20M	QPSK	50	0	Back	5mm		Ant 0	DSI3	133297	680.5	1	21.32	23.00	1.472			0.10	0.335	0.493
	LTE Band 71	20M	QPSK	1	0	Front	5mm		Ant 1	DSI3	133297	680.5	1	22.72	24.00	1.34					



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	LTE Band 71	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	133297	680.5	1	21.75	23.00	1.334			-0.08	0.316	0.422
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 0	DSI3	40620	2593	1	21.93	23.00	1.279	62.9	1.006	-0.14	0.376	0.484
	LTE Band 41	20M	QPSK	50	0	Front	5mm		Ant 0	DSI3	40620	2593	1	20.99	22.00	1.262	62.9	1.006	0.14	0.237	0.301
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	40620	2593	1	21.93	23.00	1.279	62.9	1.006	-0.02	0.378	0.486
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 0	DSI3	40620	2593	1	20.99	22.00	1.262	62.9	1.006	0.03	0.227	0.288
	LTE Band 41 HPUE	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	40620	2593	1	24.95	26.00	1.274	42.9	1.009	-0.06	0.521	0.670
	LTE Band 41 HPUE	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	39750	2506	1	24.82	26.00	1.312	42.9	1.009	0.03	0.501	0.663
	LTE Band 41 HPUE	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	40185	2549.5	1	24.87	26.00	1.297	42.9	1.009	0.01	0.488	0.639
	LTE Band 41 HPUE	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	41055	2636.5	1	24.85	26.00	1.303	42.9	1.009	0.02	0.469	0.617
	LTE Band 41 HPUE	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	41490	2680	1	24.86	26.00	1.3	42.9	1.009	0.05	0.495	0.649
	LTE Band 41 HPUE	20M	QPSK	1	0	Back	5mm		Ant 0	DSI3	40620+40422	2593+2573.2	1	24.26	26.00	1.493	42.9	1.009	0.03	0.433	0.652
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 1	DSI3	40620	2593	1	20.40	21.30	1.23	62.9	1.006	0.04	0.630	0.779
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 1	DSI3	39750	2506	1	20.35	21.30	1.245	62.9	1.006	-0.08	0.513	0.643
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 1	DSI3	40185	2549.5	1	20.31	21.30	1.256	62.9	1.006	0.12	0.634	0.801
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 1	DSI3	41055	2636.5	1	20.36	21.30	1.242	62.9	1.006	0.16	0.536	0.670
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 1	DSI3	41490	2680	1	20.33	21.30	1.25	62.9	1.006	0.02	0.431	0.542
	LTE Band 41	20M	QPSK	50	0	Front	5mm		Ant 1	DSI3	40620	2593	1	20.35	21.30	1.245	62.9	1.006	-0.09	0.412	0.516
	LTE Band 41	20M	QPSK	100	0	Front	5mm		Ant 1	DSI3	40620	2593	1	20.26	21.30	1.271	62.9	1.006	-0.11	0.405	0.518
	LTE Band 41	20M	QPSK	1	0	Front	14mm		Ant 1	DSI4	40620	2593	1	22.90	24.00	1.288	62.9	1.006	0.03	0.255	0.330
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	40620	2593	1	20.40	21.30	1.23	62.9	1.006	-0.02	1.040	1.287
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	39750	2506	1	20.35	21.30	1.245	62.9	1.006	-0.05	1.010	1.265
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	40185	2549.5	1	20.31	21.30	1.256	62.9	1.006	0.04	0.989	1.249
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	41055	2636.5	1	20.36	21.30	1.242	62.9	1.006	-0.13	0.872	1.090
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	41490	2680	1	20.33	21.30	1.25	62.9	1.006	0.01	0.779	0.979
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	40620	2593	1	20.35	21.30	1.245	62.9	1.006	-0.08	0.709	0.888
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	39750	2506	1	20.21	21.30	1.285	62.9	1.006	-0.07	0.644	0.832
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	40185	2549.5	1	20.19	21.30	1.291	62.9	1.006	-0.15	0.718	0.933
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	41055	2636.5	1	20.23	21.30	1.279	62.9	1.006	0.13	0.648	0.834
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 1	DSI3	41490	2680	1	20.17	21.30	1.297	62.9	1.006	-0.10	0.532	0.694
	LTE Band 41	20M	QPSK	100	0	Back	5mm		Ant 1	DSI3	40620	2593	1	20.26	21.30	1.271	62.9	1.006	0.13	0.653	0.835
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Headset	Ant 1	DSI3	40620	2593	1	20.40	21.30	1.23	62.9	1.006	0.03	1.010	1.250
	LTE Band 41 HPUE	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	40620	2593	1	22.12	22.90	1.197	42.9	1.009	-0.04	1.010	1.220
	LTE Band 41	20M	QPSK	1	0	Back	17mm		Ant 1	DSI4	40620	2593	1	22.90	24.00	1.288	62.9	1.006	-0.09	0.312	0.404
	LTE Band 41 HPUE	20M	QPSK	1	0	Back	17mm		Ant 1	DSI4	40620	2593	1	25.97	27.00	1.268	42.9	1.009	0.03	0.434	0.555
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 1	DSI3	40620+40422	2593+2573.2	1	20.33	21.30	1.25	62.9	1.006	0.01	0.895	1.125
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	40620	2593	1	20.20	21.70	1.413	62.9	1.006	-0.06	0.562	0.799
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	39750	2506	1	20.11	21.70	1.442	62.9	1.006	0.17	0.399	0.579
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	40185	2549.5	1	20.15	21.70	1.429	62.9	1.006	0.00	0.469	0.674
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	41055	2636.5	1	20.08	21.70	1.452	62.9	1.006	-0.14	0.548	0.800
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 2	DSI3	41490	2680	1	20.16	21.70	1.426	62.9	1.006	0.01	0.580	0.833
	LTE Band 41	20M	QPSK	50	0	Front	5mm		Ant 2	DSI3	40620	2593	1	20.15	21.70	1.429	62.9	1.006	-0.01	0.360	0.518
	LTE Band 41	20M	QPSK	100	0	Front	5mm		Ant 2	DSI3	40620	2593	1	20.08	21.70	1.452	62.9	1.006	-0.10	0.350	0.512
	LTE Band 41	20M	QPSK	1	0	Front	14mm		Ant 2	DSI4	40620	2593	1	22.26	24.00	1.493	62.9	1.006	0.01	0.258	0.388
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	40620	2593	1	20.20	21.70	1.413	62.9	1.006	-0.09	0.825	1.173
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	39750	2506	1	20.11	21.70	1.442	62.9	1.006	-0.14	0.671	0.974
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	40185	2549.5	1	20.15	21.70	1.429	62.9	1.006	0.09	0.774	1.112
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	41055	2636.5	1	20.08	21.70	1.452	62.9	1.006	-0.14	0.859	1.255
69	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	41490	2680	1	20.16	21.70	1.426	62.9	1.006	0.02	0.899	1.290
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 2	DSI3	40620	2593	1	20.15	21.70	1.429	62.9	1.006	-0.18	0.518	0.745
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 2	DSI3	39750	2506	1	20.05	21.70	1.462	62.9	1.006	-0.02	0.410	0.603
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 2	DSI3	40185	2549.5	1	20.02	21.70	1.472	62.9	1.006	0.16	0.469	0.694
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 2	DSI3	41055	2636.5	1	19.97	21.70	1.489	62.9	1.006	-0.16	0.523	0.784
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 2	DSI3	41490	2680	1	19.98	21.70	1.486	62.9	1.006	-0.01	0.556	0.832
	LTE Band 41	20M	QPSK	100	0	Back	5mm		Ant 2	DSI3	40620	2593	1	20.08	21.70	1.452	62.9	1.006	-0.04	0.523	0.764
	LTE Band 41 HPUE	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	41490	2680	1	21.78	23.30	1.419	42.9	1.009	0.03	0.878	1.257
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Headset	Ant 2	DSI3	40620	2593	1	20.20	21.70	1.413	62.9	1.006	0.02	0.816	1.160
	LTE Band 41	20M	QPSK	1	0	Back	17mm		Ant 2	DSI4	40620	2593	1	22.26	24.00	1.493	62.9	1.006	0.01	0.222	0.333
	LTE Band 41 HPUE	20M	QPSK	1	0	Front	14mm		Ant 2	DSI4	40620	2593	1	25.28	27.00	1.486	42.9	1.009	0.03	0.369	0.553
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 2	DSI3	41490+41292	2680+2660.2	1	19.96	21.70	1.493	62.9	1.006	0.06	0.786	1.181
	LTE Band 41	20M	QPSK	1	0	Front	5mm		Ant 6	DSI3	40620	2593	1	20.75	22.00	1.334	62.9	1.006	-0.11	0.406	0.545
	LTE Band 41	20M	QPSK	50	0	Front	5mm		Ant 6	DSI3	40620	2593	1	19.81	21.00	1.315	62.9	1.006	-0.04	0.246	0.326
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	40620	2593	1	20.75	22.00	1.334	62.9	1.006	0.05	0.449	0.602
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	39750	2506	1	20.66	22.00	1.361	62.9	1.006	0.01	0.599	0.820
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	40185	2549.5	1	20.69	22.00	1.352	62.9	1.006	0.06	0.581	0.790
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	41055	2636.5	1	20.70	22.00	1.349	62.9	1.006	0.07	0.336	0.456
	LTE Band 41	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	41490	2680	1	20.63	22.00	1.371	62.9	1.006	-0.10	0.252	0.348
	LTE Band 41	20M	QPSK	50	0	Back	5mm		Ant 6	DSI3	40620	2593	1	19.81	21.						



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	LTE Band 41 HPUE	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	39750	2506	1	23.67	25.00	1.358	42.9	1.009	0.07	0.763	1.045
	LTE Band 41 HPUE	20M	QPSK	1	0	Back	5mm		Ant 6	DSI3	39750+39948	2506+2525.8	1	23.28	25.00	1.486	42.9	1.009	0.06	0.666	0.999
	LTE Band 42	20M	QPSK	1	0	Front	5mm		Ant 7	DSI3	42590	3500	1	22.73	23.70	1.25	62.9	1.006	0.18	0.925	1.164
	LTE Band 42	20M	QPSK	1	0	Front	5mm		Ant 7	DSI3	42190	3460	1	22.66	23.70	1.271	62.9	1.006	-0.07	0.899	1.150
	LTE Band 42	20M	QPSK	1	0	Front	5mm		Ant 7	DSI3	42990	3540	1	22.69	23.70	1.262	62.9	1.006	-0.18	0.925	1.175
	LTE Band 42	20M	QPSK	50	0	Front	5mm		Ant 7	DSI3	42590	3500	1	22.05	23.00	1.245	62.9	1.006	0.14	0.723	0.906
	LTE Band 42	20M	QPSK	50	0	Front	5mm		Ant 7	DSI3	42190	3460	1	21.95	23.00	1.274	62.9	1.006	0.16	0.710	0.910
	LTE Band 42	20M	QPSK	50	0	Front	5mm		Ant 7	DSI3	42990	3540	1	21.87	23.00	1.297	62.9	1.006	0.11	0.710	0.927
	LTE Band 42	20M	QPSK	100	0	Front	5mm		Ant 7	DSI3	42590	3500	1	21.95	23.00	1.274	62.9	1.006	-0.10	0.736	0.944
	LTE Band 42	20M	QPSK	1	0	Front	14mm		Ant 7	DSI4	42590	3500	1	23.25	24.00	1.189	62.9	1.006	0.06	0.366	0.438
	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	42590	3500	1	22.73	23.70	1.25	62.9	1.006	0.06	0.990	1.245
	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	42190	3460	1	22.66	23.70	1.271	62.9	1.006	-0.12	0.977	1.250
70	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	42990	3540	1	22.69	23.70	1.262	62.9	1.006	-0.16	1.010	1.282
	LTE Band 42	20M	QPSK	50	0	Back	5mm		Ant 7	DSI3	42590	3500	1	22.05	23.00	1.245	62.9	1.006	0.05	0.642	0.804
	LTE Band 42	20M	QPSK	50	0	Back	5mm		Ant 7	DSI3	42190	3460	1	21.95	23.00	1.274	62.9	1.006	0.09	0.623	0.798
	LTE Band 42	20M	QPSK	50	0	Back	5mm		Ant 7	DSI3	42990	3540	1	21.87	23.00	1.297	62.9	1.006	-0.13	0.635	0.829
	LTE Band 42	20M	QPSK	100	0	Back	5mm		Ant 7	DSI3	42590	3500	1	21.95	23.00	1.274	62.9	1.006	0.08	0.648	0.831
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Headset	Ant 7	DSI3	42590	3500	1	22.73	23.70	1.25	62.9	1.006	0.03	0.978	1.230
	LTE Band 42	20M	QPSK	1	0	Back	17mm		Ant 7	DSI4	42590	3500	1	23.25	24.00	1.189	62.9	1.006	0.01	0.345	0.413
	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	42990+42792	3540+3520.2	1	22.59	23.70	1.291	62.9	1.006	0.05	0.879	1.142
	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	42990	3540	2	22.69	23.70	1.262	62.9	1.006	0.01	0.846	1.074
	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	42990	3540	Cover	22.69	23.70	1.262	62.9	1.006	-0.03	0.925	1.174
	LTE Band 42	20M	QPSK	1	0	Front	5mm		Ant 5	DSI3	42590	3500	1	23.28	24.00	1.18	62.9	1.006	0.01	0.698	0.829
	LTE Band 42	20M	QPSK	1	0	Front	5mm		Ant 5	DSI3	42190	3460	1	23.21	24.00	1.199	62.9	1.006	0.02	0.733	0.884
	LTE Band 42	20M	QPSK	1	0	Front	5mm		Ant 5	DSI3	42990	3540	1	23.25	24.00	1.189	62.9	1.006	0.12	0.691	0.827
	LTE Band 42	20M	QPSK	50	0	Front	5mm		Ant 5	DSI3	42590	3500	1	22.30	23.00	1.175	62.9	1.006	0.18	0.481	0.569
	LTE Band 42	20M	QPSK	100	0	Front	5mm		Ant 5	DSI3	42590	3500	1	22.25	23.00	1.189	62.9	1.006	0.08	0.481	0.575
	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 5	DSI3	42590	3500	1	23.28	24.00	1.18	62.9	1.006	-0.03	0.693	0.823
	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 5	DSI3	42190	3460	1	23.21	24.00	1.199	62.9	1.006	-0.01	0.757	0.913
	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 5	DSI3	42990	3540	1	23.25	24.00	1.189	62.9	1.006	0.17	0.678	0.811
	LTE Band 42	20M	QPSK	50	0	Back	5mm		Ant 5	DSI3	42590	3500	1	22.30	23.00	1.175	62.9	1.006	0.19	0.466	0.551
	LTE Band 42	20M	QPSK	100	0	Back	5mm		Ant 5	DSI3	42590	3500	1	22.25	23.00	1.189	62.9	1.006	-0.12	0.386	0.462
	LTE Band 42	20M	QPSK	1	99	Back	5mm		Ant 5	DSI3	42190+42388	3460+3479.8	1	23.08	24.00	1.236	62.9	1.006	0.06	0.712	0.885
	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 5	DSI3	42190	3460	2	23.21	24.00	1.199	62.9	1.006	0.05	0.666	0.803
	LTE Band 42	20M	QPSK	1	0	Back	5mm		Ant 5	DSI3	42190	3460	Cover	23.21	24.00	1.199	62.9	1.006	0.01	0.694	0.837
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 7	DSI3	55990	3625	1	22.52	23.20	1.169	62.9	1.006	0.05	1.000	1.176
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 7	DSI3	55340	3560	1	22.48	23.20	1.18	62.9	1.006	-0.03	1.020	1.211
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 7	DSI3	55830	3609	1	22.46	23.20	1.186	62.9	1.006	0.08	1.000	1.193
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 7	DSI3	56150	3641	1	22.49	23.20	1.178	62.9	1.006	-0.15	1.030	1.221
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 7	DSI3	56640	3690	1	22.43	23.20	1.194	62.9	1.006	0.05	0.986	1.185
	LTE Band 48	20M	QPSK	50	0	Front	5mm		Ant 7	DSI3	55990	3625	1	22.36	23.00	1.159	62.9	1.006	-0.03	0.779	0.908
	LTE Band 48	20M	QPSK	50	0	Front	5mm		Ant 7	DSI3	55340	3560	1	22.20	23.00	1.202	62.9	1.006	0.04	0.793	0.959
	LTE Band 48	20M	QPSK	50	0	Front	5mm		Ant 7	DSI3	55830	3609	1	22.26	23.00	1.186	62.9	1.006	0.06	0.801	0.955
	LTE Band 48	20M	QPSK	50	0	Front	5mm		Ant 7	DSI3	56150	3641	1	22.24	23.00	1.191	62.9	1.006	0.10	0.786	0.942
	LTE Band 48	20M	QPSK	50	0	Front	5mm		Ant 7	DSI3	56640	3690	1	22.27	23.00	1.183	62.9	1.006	0.03	0.764	0.909
	LTE Band 48	20M	QPSK	100	0	Front	5mm		Ant 7	DSI3	55990	3625	1	22.28	23.00	1.18	62.9	1.006	0.07	0.801	0.951
	LTE Band 48	20M	QPSK	1	0	Front	14mm		Ant 7	DSI4	55990	3625	1	23.09	24.00	1.233	62.9	1.006	0.06	0.329	0.408
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	55990	3625	1	22.52	23.20	1.169	62.9	1.006	-0.02	1.090	1.282
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	55340	3560	1	22.48	23.20	1.18	62.9	1.006	0.03	1.040	1.235
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	55830	3609	1	22.46	23.20	1.186	62.9	1.006	-0.17	1.050	1.253
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	56150	3641	1	22.49	23.20	1.178	62.9	1.006	0.02	1.060	1.256
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	56640	3690	1	22.43	23.20	1.194	62.9	1.006	0.06	1.060	1.273
	LTE Band 48	20M	QPSK	50	0	Back	5mm		Ant 7	DSI3	55990	3625	1	22.36	23.00	1.159	62.9	1.006	0.01	0.671	0.782
	LTE Band 48	20M	QPSK	50	0	Back	5mm		Ant 7	DSI3	55340	3560	1	22.20	23.00	1.202	62.9	1.006	-0.13	0.696	0.841
	LTE Band 48	20M	QPSK	50	0	Back	5mm		Ant 7	DSI3	55830	3609	1	22.26	23.00	1.186	62.9	1.006	-0.12	0.690	0.823
	LTE Band 48	20M	QPSK	50	0	Back	5mm		Ant 7	DSI3	56150	3641	1	22.24	23.00	1.191	62.9	1.006	0.07	0.673	0.807
	LTE Band 48	20M	QPSK	50	0	Back	5mm		Ant 7	DSI3	56640	3690	1	22.27	23.00	1.183	62.9	1.006	-0.08	0.667	0.794
	LTE Band 48	20M	QPSK	100	0	Back	5mm		Ant 7	DSI3	55990	3625	1	22.28	23.00	1.18	62.9	1.006	-0.09	0.699	0.830
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Headset	Ant 7	DSI3	55990	3625	1	22.52	23.20	1.169	62.9	1.006	0.03	0.985	1.158
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Headset	Ant 7	DSI3	55990	3625	1	22.52	23.20	1.169	62.9	1.006	0.01	1.060	1.247
	LTE Band 48	20M	QPSK	1	0	Back	17mm		Ant 7	DSI4	55990	3625	1	23.09	24.00	1.233	62.9	1.006	-0.03	0.353	0.438
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	56150+55952	3641+3621.2	1	22.39	23.20	1.205	62.9	1.006	0.01	0.956	1.159
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	55990	3625	2	22.52	23.20	1.169	62.9	1.006	0.05	0.956	1.124
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 7	DSI3	55990	3625	Cover	22.52	23.20	1.169	62.9	1.006	0.01	0.988	1.162
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 5	DSI3	55990	3625	1	23.09	24.00	1.233	62.9	1.006	-0.06	0.991	1.229
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 5	DSI3	55340	3560	1	23.01	24.00	1.256	62.9	1.006	-0.10	0.902	1.140
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 5	DSI3	55830	3609	1	23.04	24.00	1.247	62.				



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	LTE Band 48	20M	QPSK	50	0	Front	5mm		Ant 5	DSI3	56150	3641	1	22.02	23.00	1.253	62.9	1.006	0.13	0.625	0.787
	LTE Band 48	20M	QPSK	50	0	Front	5mm		Ant 5	DSI3	56640	3690	1	22.09	23.00	1.233	62.9	1.006	0.02	0.602	0.747
	LTE Band 48	20M	QPSK	100	0	Front	5mm		Ant 5	DSI3	55990	3625	1	22.05	23.00	1.245	62.9	1.006	-0.14	0.625	0.782
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 5	DSI3	55990	3625	1	23.09	24.00	1.233	62.9	1.006	-0.06	0.911	1.130
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 5	DSI3	55340	3560	1	23.01	24.00	1.256	62.9	1.006	0.11	0.919	1.161
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 5	DSI3	55830	3609	1	23.04	24.00	1.247	62.9	1.006	0.14	0.922	1.156
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 5	DSI3	56150	3641	1	23.02	24.00	1.253	62.9	1.006	0.11	0.879	1.108
	LTE Band 48	20M	QPSK	1	0	Back	5mm		Ant 5	DSI3	56640	3690	1	23.06	24.00	1.242	62.9	1.006	0.11	0.833	1.040
	LTE Band 48	20M	QPSK	50	0	Back	5mm		Ant 5	DSI3	55990	3625	1	22.13	23.00	1.222	62.9	1.006	0.10	0.589	0.724
	LTE Band 48	20M	QPSK	50	0	Back	5mm		Ant 5	DSI3	55340	3560	1	22.01	23.00	1.256	62.9	1.006	-0.05	0.625	0.789
	LTE Band 48	20M	QPSK	50	0	Back	5mm		Ant 5	DSI3	55830	3609	1	22.06	23.00	1.242	62.9	1.006	-0.17	0.621	0.776
	LTE Band 48	20M	QPSK	50	0	Back	5mm		Ant 5	DSI3	56150	3641	1	22.02	23.00	1.253	62.9	1.006	0.10	0.579	0.730
	LTE Band 48	20M	QPSK	50	0	Back	5mm		Ant 5	DSI3	56640	3690	1	22.09	23.00	1.233	62.9	1.006	-0.03	0.558	0.692
	LTE Band 48	20M	QPSK	100	0	Back	5mm		Ant 5	DSI3	55990	3625	1	22.05	23.00	1.245	62.9	1.006	-0.15	0.514	0.644
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Headset	Ant 5	DSI3	55990	3625	1	23.09	24.00	1.233	62.9	1.006	0.03	0.983	1.219
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 5	DSI3	56150+55952	3641+3621.2	1	22.94	24.00	1.276	62.9	1.006	0.01	0.921	1.182
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 5	DSI3	56150	3641	2	23.02	24.00	1.253	62.9	1.006	0.05	0.945	1.191
	LTE Band 48	20M	QPSK	1	0	Front	5mm		Ant 5	DSI3	56150	3641	Cover	23.02	24.00	1.253	62.9	1.006	0.04	0.936	1.180

【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Headset	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)
	FR1 n7	50M	BPSK	1	1	Front	5mm		Ant 1	DSI3	507000	2535	1	18.35	19.70	1.365			-0.05	0.344	0.470
	FR1 n7	50M	BPSK	135	68	Front	5mm		Ant 1	DSI3	507000	2535	1	18.31	19.70	1.377			0.14	0.458	0.631
	FR1 n7	50M	BPSK	1	1	Front	14mm		Ant 1	DSI4	507000	2535	1	22.30	24.00	1.479			0.03	0.243	0.359
	FR1 n7	50M	BPSK	1	1	Back	5mm		Ant 1	DSI3	507000	2535	1	18.35	19.70	1.365			-0.18	0.775	1.058
72	FR1 n7	50M	BPSK	135	68	Back	5mm		Ant 1	DSI3	507000	2535	1	18.31	19.70	1.377			-0.02	0.939	1.293
	FR1 n7	50M	BPSK	270	0	Back	5mm		Ant 1	DSI3	507000	2535	1	18.21	19.70	1.409			0.17	0.733	1.033
	FR1 n7	50M	BPSK	1	1	Back	17mm		Ant 1	DSI4	507000	2535	1	22.30	24.00	1.479			0.06	0.298	0.441
	FR1 n7	50M	BPSK	1	1	Back	5mm	Headset	Ant 1	DSI3	507000	2535	1	18.35	19.70	1.365			0.03	0.746	1.018
	FR1 n7	50M	BPSK	1	1	Front	5mm		Ant 2	DSI3	507000	2535	1	18.69	19.70	1.262			-0.16	0.611	0.771
	FR1 n7	50M	BPSK	135	68	Front	5mm		Ant 2	DSI3	507000	2535	1	18.66	19.70	1.271			-0.08	0.651	0.827
	FR1 n7	50M	BPSK	270	0	Front	5mm		Ant 2	DSI3	507000	2535	1	18.60	19.70	1.288			-0.07	0.599	0.772
	FR1 n7	50M	BPSK	1	1	Front	14mm		Ant 2	DSI4	507000	2535	1	22.17	24.00	1.524			0.03	0.237	0.361
	FR1 n7	50M	BPSK	1	1	Back	5mm		Ant 2	DSI3	507000	2535	1	18.69	19.70	1.262			-0.13	0.981	1.238
	FR1 n7	50M	BPSK	135	68	Back	5mm		Ant 2	DSI3	507000	2535	1	18.66	19.70	1.271			-0.08	1.010	1.284
	FR1 n7	50M	BPSK	270	0	Back	5mm		Ant 2	DSI3	507000	2535	1	18.60	19.70	1.288			-0.13	0.896	1.154
	FR1 n7	50M	BPSK	1	1	Back	17mm		Ant 2	DSI4	507000	2535	1	22.17	24.00	1.524			-0.09	0.234	0.357
	FR1 n7	50M	BPSK	1	1	Back	5mm	Headset	Ant 2	DSI3	507000	2535	1	18.69	19.70	1.262			0.01	0.966	1.219
	FR1 n25	40M	BPSK	1	1	Front	5mm		Ant 1	DSI3	376500	1882.5	1	16.88	18.30	1.387			-0.11	0.513	0.711
	FR1 n25	40M	BPSK	108	54	Front	5mm		Ant 1	DSI3	376500	1882.5	1	16.84	18.30	1.4			0.10	0.544	0.762
	FR1 n25	40M	BPSK	1	1	Front	14mm		Ant 1	DSI4	376500	1882.5	1	22.41	24.00	1.442			-0.06	0.370	0.534
	FR1 n25	40M	BPSK	1	1	Back	5mm		Ant 1	DSI3	376500	1882.5	1	16.88	18.30	1.387			0.13	0.851	1.180
	FR1 n25	40M	BPSK	108	54	Back	5mm		Ant 1	DSI3	376500	1882.5	1	16.84	18.30	1.4			-0.05	0.916	1.282
	FR1 n25	40M	BPSK	216	0	Back	5mm		Ant 1	DSI3	376500	1882.5	1	16.73	18.30	1.435			-0.08	0.872	1.251
	FR1 n25	40M	BPSK	1	1	Back	5mm	Headset	Ant 1	DSI3	376500	1882.5	1	16.88	18.30	1.387			0.03	0.823	1.142
	FR1 n25	40M	BPSK	1	1	Back	17mm		Ant 1	DSI4	376500	1882.5	1	22.41	24.00	1.442			0.02	0.464	0.669
	FR1 n25	40M	BPSK	1	1	Front	5mm		Ant 2	DSI3	376500	1882.5	1	20.90	21.90	1.259			0.08	0.938	1.181
	FR1 n25	40M	BPSK	108	54	Front	5mm		Ant 2	DSI3	376500	1882.5	1	20.86	21.90	1.271			-0.17	0.981	1.247
	FR1 n25	40M	BPSK	216	0	Front	5mm		Ant 2	DSI3	376500	1882.5	1	20.81	21.90	1.285			-0.11	0.794	1.020
	FR1 n25	40M	BPSK	1	1	Front	14mm		Ant 2	DSI4	376500	1882.5	1	22.48	24.00	1.419			0.03	0.272	0.386
	FR1 n25	40M	BPSK	1	1	Back	5mm		Ant 2	DSI3	376500	1882.5	1	20.90	21.90	1.259			0.14	0.902	1.135
73	FR1 n25	40M	BPSK	108	54	Back	5mm		Ant 2	DSI3	376500	1882.5	1	20.86	21.90	1.271			-0.07	1.010	1.284
	FR1 n25	40M	BPSK	216	0	Back	5mm		Ant 2	DSI3	376500	1882.5	1	20.81	21.90	1.285			-0.18	0.844	1.085
	FR1 n25	40M	BPSK	1	1	Front	5mm	Headset	Ant 2	DSI3	376500	1882.5	1	20.90	21.90	1.259			0.01	0.921	1.160
	FR1 n25	40M	BPSK	1	1	Back	5mm	Headset	Ant 2	DSI3	376500	1882.5	1	20.90	21.90	1.259			0.03	0.889	1.119
	FR1 n25	40M	BPSK	1	1	Back	17mm		Ant 2	DSI4	376500	1882.5	1	22.48	24.00	1.419			0.04	0.235	0.333
	FR1 n25	40M	BPSK	108	54	Back	5mm		Ant 2	DSI3	376500	1882.5	2	20.86	21.90	1.271			0.03	0.955	1.214
	FR1 n25	40M	BPSK	108	54	Back	5mm		Ant 2	DSI3	376500	1882.5	Cover	20.86	21.90	1.271			0.01	0.916	1.164
	FR1 n26	20M	BPSK	1	1	Front	5mm		Ant 0	DSI3	166300	831.5	1	22.54	24.00	1.4			0.09	0.643	0.900
	FR1 n26	20M	BPSK	50	28	Front	5mm		Ant 0	DSI3	166300	831.5	1	22.43	24.00	1.435			-0.07	0.639	0.918
	FR1 n26	20M	BPSK	100	0	Front	5mm		Ant 0	DSI3	166300	831.5	1	22.05	23.50	1.396			0.10	0.620	0.865
	FR1 n26	20M	BPSK	1	1	Back	5mm		Ant 0	DSI3	166300	831.5	1	22.54	24.00	1.4			0.01	0.824	1.154
74	FR1 n26	20M	BPSK	50	28	Back	5mm		Ant 0	DSI3	166300	831.5	1	22.43	24.00	1.435			-0.12	0.828	1.188
	FR1 n26	20M	BPSK	100	0	Back	5mm		Ant 0	DSI3	166300	831.5	1	22.05	23.50	1.396			0.11	0.727	1.015
	FR1 n26	20M	BPSK	1	1	Front	5mm		Ant 1	DSI3	166300	831.5	1	22.66	24.00	1.361			0.07	0.494	0.672
	FR1 n26	20M	BPSK	50	28	Front	5mm		Ant 1	DSI3	166300	831.5	1	22.55	24.00	1.396			-0.13	0.483	0.674
	FR1 n26	20M	BPSK	1	1	Back	5mm		Ant 1	DSI3	166300	831.5	1	22.66	24.00	1.361			0.03	0.822	1.119
	FR1 n26	20M	BPSK	50	28	Back	5mm		Ant 1	DSI3	166300	831.5	1	22.55	24.00	1.396			0.10	0.798	1.113
	FR1 n26	20M	BPSK	100	0	Back	5mm		Ant 1	DSI3	166300	831.5	1	22.04	23.50	1.4			-0.14	0.691	0.967



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	FR1 n66	40M	BPSK	1	1	Front	5mm		Ant 1	DSI3	349000	1745	1	16.96	18.10	1.3			-0.02	0.577	0.750
	FR1 n66	40M	BPSK	108	54	Front	5mm		Ant 1	DSI3	349000	1745	1	16.94	18.10	1.306			-0.03	0.509	0.665
	FR1 n66	40M	BPSK	1	1	Front	14mm		Ant 1	DSI4	349000	1745	1	22.43	24.00	1.435			0.01	0.514	0.738
	FR1 n66	40M	BPSK	1	1	Back	5mm		Ant 1	DSI3	349000	1745	1	16.96	18.10	1.3			-0.05	0.985	1.280
	FR1 n66	40M	BPSK	108	54	Back	5mm		Ant 1	DSI3	349000	1745	1	16.94	18.10	1.306			0.11	0.859	1.122
	FR1 n66	40M	BPSK	216	0	Back	5mm		Ant 1	DSI3	349000	1745	1	16.83	18.10	1.34			0.15	0.798	1.069
	FR1 n66	40M	BPSK	1	1	Back	17mm		Ant 1	DSI4	349000	1745	1	22.43	24.00	1.435			0.03	0.506	0.726
	FR1 n66	40M	BPSK	1	1	Back	5mm	Headset	Ant 1	DSI3	349000	1745	1	16.96	18.10	1.3			0.03	0.966	1.256
	FR1 n66	40M	BPSK	1	1	Front	5mm		Ant 2	DSI3	349000	1745	1	20.53	21.70	1.309			-0.17	0.949	1.242
	FR1 n66	40M	BPSK	108	54	Front	5mm		Ant 2	DSI3	349000	1745	1	20.50	21.70	1.318			0.07	0.854	1.126
	FR1 n66	40M	BPSK	216	0	Front	5mm		Ant 2	DSI3	349000	1745	1	20.41	21.70	1.346			0.05	0.766	1.031
	FR1 n66	40M	BPSK	1	1	Front	14mm		Ant 2	DSI4	349000	1745	1	22.95	24.00	1.274			-0.04	0.195	0.248
75	FR1 n66	40M	BPSK	1	1	Back	5mm		Ant 2	DSI3	349000	1745	1	20.53	21.70	1.309			0.07	0.984	1.288
	FR1 n66	40M	BPSK	108	54	Back	5mm		Ant 2	DSI3	349000	1745	1	20.50	21.70	1.318			-0.17	0.902	1.189
	FR1 n66	40M	BPSK	216	0	Back	5mm		Ant 2	DSI3	349000	1745	1	20.41	21.70	1.346			-0.08	0.866	1.166
	FR1 n66	40M	BPSK	1	1	Back	17mm		Ant 2	DSI4	349000	1745	1	22.95	24.00	1.274			0.02	0.170	0.217
	FR1 n66	40M	BPSK	1	1	Front	5mm	Headset	Ant 2	DSI3	349000	1745	1	20.53	21.70	1.309			0.03	0.933	1.221
	FR1 n66	40M	BPSK	1	1	Back	5mm	Headset	Ant 2	DSI3	349000	1745	1	20.53	21.70	1.309			0.01	0.977	1.279
	FR1 n66	40M	BPSK	1	1	Back	5mm		Ant 2	DSI3	349000	1745	2	20.53	21.70	1.309			0.01	0.866	1.134
	FR1 n66	40M	BPSK	1	1	Back	5mm		Ant 2	DSI3	349000	1745	Cover	20.53	21.70	1.309			-0.06	0.921	1.206
	FR1 n70	15M	BPSK	1	1	Front	5mm		Ant 1	DSI3	340500	1702.5	1	17.73	18.40	1.167			-0.13	0.610	0.712
	FR1 n70	15M	BPSK	36	22	Front	5mm		Ant 1	DSI3	340500	1702.5	1	17.69	18.40	1.178			0.17	0.688	0.810
	FR1 n70	15M	BPSK	75	0	Front	5mm		Ant 1	DSI3	340500	1702.5	1	17.59	18.40	1.205			-0.15	0.587	0.707
	FR1 n70	15M	BPSK	1	1	Front	14mm		Ant 1	DSI4	340500	1702.5	1	22.23	24.00	1.503			-0.03	0.437	0.657
	FR1 n70	15M	BPSK	1	1	Back	5mm		Ant 1	DSI3	340500	1702.5	1	17.73	18.40	1.167			-0.19	0.936	1.092
	FR1 n70	15M	BPSK	36	22	Back	5mm		Ant 1	DSI3	340500	1702.5	1	17.69	18.40	1.178			-0.03	1.080	1.272
	FR1 n70	15M	BPSK	75	0	Back	5mm		Ant 1	DSI3	340500	1702.5	1	17.59	18.40	1.205			-0.13	0.865	1.043
	FR1 n70	15M	BPSK	1	1	Back	5mm	Headset	Ant 1	DSI3	340500	1702.5	1	17.73	18.40	1.167			0.03	0.922	1.076
	FR1 n70	15M	BPSK	1	1	Back	17mm		Ant 1	DSI4	340500	1702.5	1	22.23	24.00	1.503			0.02	0.521	0.783
	FR1 n70	15M	BPSK	1	1	Front	5mm		Ant 2	DSI3	340500	1702.5	1	20.90	22.00	1.288			0.02	0.838	1.080
	FR1 n70	15M	BPSK	36	22	Front	5mm		Ant 2	DSI3	340500	1702.5	1	20.88	22.00	1.294			-0.17	0.864	1.118
	FR1 n70	15M	BPSK	75	0	Front	5mm		Ant 2	DSI3	340500	1702.5	1	20.83	22.00	1.309			0.14	0.800	1.047
	FR1 n70	15M	BPSK	1	1	Front	14mm		Ant 2	DSI4	340500	1702.5	1	22.95	24.00	1.274			-0.06	0.336	0.428
	FR1 n70	15M	BPSK	1	1	Back	5mm		Ant 2	DSI3	340500	1702.5	1	20.90	22.00	1.288			0.04	0.922	1.188
76	FR1 n70	15M	BPSK	36	22	Back	5mm		Ant 2	DSI3	340500	1702.5	1	20.88	22.00	1.294			-0.02	0.993	1.285
	FR1 n70	15M	BPSK	75	0	Back	5mm		Ant 2	DSI3	340500	1702.5	1	20.83	22.00	1.309			0.17	0.845	1.106
	FR1 n70	15M	BPSK	1	1	Back	5mm	Headset	Ant 2	DSI3	340500	1702.5	1	20.90	22.00	1.288			0.01	0.913	1.176
	FR1 n70	15M	BPSK	1	1	Back	17mm		Ant 2	DSI4	340500	1702.5	1	22.95	24.00	1.274			0.06	0.302	0.385
	FR1 n71	35M	BPSK	1	1	Front	5mm		Ant 0	DSI3	136100	680.5	1	22.65	24.00	1.365			-0.01	0.274	0.374
	FR1 n71	35M	BPSK	90	45	Front	5mm		Ant 0	DSI3	136100	680.5	1	22.64	24.00	1.368			-0.17	0.357	0.489
	FR1 n71	35M	BPSK	1	1	Back	5mm		Ant 0	DSI3	136100	680.5	1	22.65	24.00	1.365			-0.06	0.379	0.518
77	FR1 n71	35M	BPSK	90	45	Back	5mm		Ant 0	DSI3	136100	680.5	1	22.64	24.00	1.368			-0.06	0.516	0.706
	FR1 n71	35M	BPSK	1	1	Front	5mm		Ant 1	DSI3	136100	680.5	1	22.65	24.00	1.365			-0.17	0.119	0.163
	FR1 n71	35M	BPSK	90	45	Front	5mm		Ant 1	DSI3	136100	680.5	1	22.64	24.00	1.368			-0.11	0.178	0.244
	FR1 n71	35M	BPSK	1	1	Back	5mm		Ant 1	DSI3	136100	680.5	1	22.65	24.00	1.365			-0.05	0.270	0.368
	FR1 n71	35M	BPSK	90	45	Back	5mm		Ant 1	DSI3	136100	680.5	1	22.64	24.00	1.368			-0.07	0.304	0.416
	FR1 n41	100M	BPSK	1	1	Front	5mm		Ant 0	DSI3	518598	2592.99	1	22.34	23.00	1.164			0.03	0.630	0.733
	FR1 n41	100M	BPSK	135	69	Front	5mm		Ant 0	DSI3	518598	2592.99	1	22.30	23.00	1.175			0.07	0.582	0.684
	FR1 n41	100M	BPSK	1	1	Back	5mm		Ant 0	DSI3	518598	2592.99	1	22.34	23.00	1.164			0.18	0.599	0.698
	FR1 n41	100M	BPSK	135	69	Back	5mm		Ant 0	DSI3	518598	2592.99	1	22.30	23.00	1.175			0.15	0.590	0.694
	FR1 n41	100M	BPSK	1	1	Front	5mm		Ant 0	DSI3	518598	2592.99	2	22.34	23.00	1.164			0.02	0.588	0.684
	FR1 n41	100M	BPSK	1	1	Front	5mm		Ant 0	DSI3	518598	2592.99	Cover	22.34	23.00	1.164			0.01	0.601	0.700
	FR1 n41	100M	BPSK	1	1	Front	5mm		Ant 1	DSI3	518598	2592.99	1	17.89	19.20	1.352			0.03	0.444	0.600
	FR1 n41	100M	BPSK	135	69	Front	5mm		Ant 1	DSI3	518598	2592.99	1	17.85	19.20	1.365			0.16	0.488	0.666
	FR1 n41	100M	BPSK	1	1	Front	14mm		Ant 1	DSI4	518598	2592.99		22.36	24.00	1.459			0.01	0.285	0.416
	FR1 n41	100M	BPSK	1	1	Back	5mm		Ant 1	DSI3	518598	2592.99	1	17.89	19.20	1.352			-0.01	0.704	0.952
	FR1 n41	100M	BPSK	135	69	Back	5mm		Ant 1	DSI3	518598	2592.99	1	17.85	19.20	1.365			-0.12	0.948	1.294
	FR1 n41	100M	BPSK	270	0	Back	5mm		Ant 1	DSI3	518598	2592.99	1	17.84	19.20	1.368			-0.05	0.726	0.993
	FR1 n41	100M	BPSK	1	1	Back	5mm	Headset	Ant 1	DSI3	518598	2592.99	1	17.89	19.20	1.352			0.03	0.695	0.940
	FR1 n41_HPUE	100M	BPSK	135	69	Back	5mm		Ant 1	DSI3	518598	2592.99	1	20.90	22.20	1.349	50.0	1.0	0.01	0.933	1.259
	FR1 n41	100M	BPSK	1	1	Back	17mm		Ant 1	DSI4	518598	2592.99	1	22.36	24.00	1.459			0.03	0.378	0.552
	FR1 n41_HPUE	100M	BPSK	1	1	Back	17mm		Ant 1	DSI4	518598	2592.99	1	25.43	27.00	1.435	50.0	1.0	0.05	0.369	0.530
	FR1 n41	100M	BPSK	1	1	Front	5mm		Ant 2	DSI3	518598	2592.99	1	20.58	21.80	1.324			0.10	0.660	0.874
	FR1 n41	100M	BPSK	135	69	Front	5mm		Ant 2	DSI3	518598	2592.99	1	20.54	21.80	1.337			-0.13	0.777	1.039
	FR1 n41	100M	BPSK	270	0	Front	5mm		Ant 2	DSI3	518598	2592.99	1	20.46	21.80	1.361			-0.07	0.777	1.058
	FR1 n41	100M	BPSK	1	1	Front	14mm		Ant 2	DSI4	518598	2592.99	1	23.01	24.00	1.256			0.06	0.245	0.308
	FR1 n41	100M	BPSK	1	1	Back	5mm		Ant 2	DSI3	518598	2592.99	1	20.58	21.80	1.324			0.14	0.958	1.269
78	FR1 n41	100M	BPSK	135	69	Back	5mm		Ant 2	DSI3	518598	2592.99	1	20.54	21.80	1.337			-0.02	0.969	1.296
	FR1 n41_HPUE	100M	BPSK	135	69	Back	5mm		Ant 2	DSI3	518598	2592.99	1	23.51	24.80	1.346	50.0	1.0	0.06	0.946	1.273
	FR1 n41	100M	BPSK	270	0	Back	5mm		Ant 2	DSI3	518598	2592.99	1	20.46	21.80	1.361			-0.07	0.937	1.275



FCC SAR Test Report

Report No. : FA591906

	FR1 n41	100M	BPSK	135	69	Back	5mm		Ant 2	DSI3	518598	2592.99	2	20.54	21.80	1.337			0.06	0.845	1.130
	FR1 n41	100M	BPSK	135	69	Back	5mm		Ant 2	DSI3	518598	2592.99	Cover	20.54	21.80	1.337			0.01	0.901	1.205
	FR1 n41	100M	BPSK	1	1	Front	5mm		Ant 6	DSI3	518598	2592.99	1	18.48	18.70	1.052			0.01	0.660	0.694
	FR1 n41	100M	BPSK	135	69	Front	5mm		Ant 6	DSI3	518598	2592.99	1	18.45	18.70	1.059			-0.10	0.471	0.499
	FR1 n41	100M	BPSK	1	1	Front	14mm		Ant 6	DSI4	518598	2592.99	1	22.43	23.00	1.14			0.06	0.426	0.486
	FR1 n41	100M	BPSK	1	1	Back	5mm		Ant 6	DSI3	518598	2592.99	1	18.48	18.70	1.052			-0.13	0.986	1.037
	FR1 n41	100M	BPSK	135	69	Back	5mm		Ant 6	DSI3	518598	2592.99	1	18.45	18.70	1.059			-0.17	0.757	0.801
	FR1 n41	100M	BPSK	270	0	Back	5mm		Ant 6	DSI3	518598	2592.99	1	18.33	18.70	1.089			-0.03	0.732	0.798
	FR1 n41_HPUE	100M	BPSK	1	1	Back	5mm		Ant 6	DSI3	518598	2592.99	1	20.46	21.70	1.33	50.0	1.0	0.03	0.752	1.000
	FR1 n41	100M	BPSK	1	1	Back	17mm		Ant 6	DSI4	518598	2592.99	1	22.43	23.00	1.14			0.05	0.301	0.343
	FR1 n41_HPUE	100M	BPSK	1	1	Front	14mm		Ant 6	DSI4	518598	2592.99	1	24.44	25.00	1.138	50.0	1.0	0.03	0.316	0.360
	FR1 n77	100M	BPSK	1	1	Front	5mm		Ant 7	DSI3	656000	3840	1	19.49	20.50	1.262			-0.15	0.842	1.062
	FR1 n77	100M	BPSK	135	69	Front	5mm		Ant 7	DSI3	656000	3840	1	19.46	20.50	1.271			0.19	0.723	0.919
	FR1 n77	100M	BPSK	270	0	Front	5mm		Ant 7	DSI3	656000	3840	1	19.38	20.50	1.294			-0.14	0.681	0.881
	FR1 n77	100M	BPSK	1	1	Front	14mm		Ant 7	DSI4	656000	3840	1	23.46	24.00	1.132			0.03	0.379	0.429
	FR1 n77	100M	BPSK	1	1	Back	5mm		Ant 7	DSI3	656000	3840	1	19.49	20.50	1.262			-0.03	1.010	1.275
	FR1 n77	100M	BPSK	135	69	Back	5mm		Ant 7	DSI3	656000	3840	1	19.46	20.50	1.271			0.01	0.895	1.138
	FR1 n77	100M	BPSK	270	0	Back	5mm		Ant 7	DSI3	656000	3840	1	19.38	20.50	1.294			0.19	0.876	1.134
	FR1 n77_HPUE	100M	BPSK	1	1	Back	5mm		Ant 7	DSI3	656000	3840	1	22.53	23.50	1.25	50.0	1.0	0.01	0.974	1.218
	FR1 n77	100M	BPSK	1	1	Back	5mm	Headset	Ant 7	DSI3	656000	3840	1	19.49	20.50	1.262			0.05	0.993	1.253
	FR1 n77	100M	BPSK	1	1	Back	17mm		Ant 7	DSI4	656000	3840	1	23.46	24.00	1.132			-0.05	0.322	0.365
	FR1 n77_HPUE	100M	BPSK	1	1	Front	14mm		Ant 7	DSI4	656000	3840	1	26.50	27.00	1.122	50.0	1.0	0.06	0.373	0.419
	FR1 n77	100M	BPSK	1	1	Back	5mm		Ant 7	DSI3	656000	3840	2	19.49	20.50	1.262			0.06	0.889	1.122
	FR1 n77	100M	BPSK	1	1	Back	5mm		Ant 7	DSI3	656000	3840	Cover	19.49	20.50	1.262			0.01	0.923	1.165
	FR1 n77	100M	BPSK	1	1	Front	5mm		Ant 5	DSI3	656000	3840	1	20.38	21.10	1.18			0.15	0.909	1.073
	FR1 n77	100M	BPSK	135	69	Front	5mm		Ant 5	DSI3	656000	3840	1	20.35	21.10	1.189			-0.01	0.823	0.978
	FR1 n77	100M	BPSK	270	0	Front	5mm		Ant 5	DSI3	656000	3840	1	20.24	21.10	1.219			0.17	0.836	1.019
	FR1 n77	100M	BPSK	1	1	Front	14mm		Ant 5	DSI4	656000	3840	1	22.85	24.00	1.303			-0.03	0.315	0.410
79	FR1 n77	100M	BPSK	1	1	Back	5mm		Ant 5	DSI3	656000	3840	1	20.38	21.10	1.18			-0.03	1.090	1.286
	FR1 n77	100M	BPSK	135	69	Back	5mm		Ant 5	DSI3	656000	3840	1	20.35	21.10	1.189			-0.12	0.849	1.010
	FR1 n77	100M	BPSK	270	0	Back	5mm		Ant 5	DSI3	656000	3840	1	20.24	21.10	1.219			-0.09	0.950	1.158
	FR1 n77_HPUE	100M	BPSK	1	1	Back	5mm		Ant 5	DSI3	656000	3840	1	23.36	24.10	1.186	50.0	1.0	0.03	1.040	1.233
	FR1 n77	100M	BPSK	1	1	Back	5mm	Headset	Ant 5	DSI3	656000	3840	1	20.38	21.10	1.18			0.01	1.050	1.239
	FR1 n77	100M	BPSK	1	1	Back	17mm		Ant 5	DSI4	656000	3840	1	22.85	24.00	1.303			0.06	0.274	0.357
	FR1 n77_HPUE	100M	BPSK	1	1	Front	14mm		Ant 5	DSI4	656000	3840	1	25.89	27.00	1.291	50.0	1.0	0.06	0.326	0.421
	FR1 n77	100M	BPSK	1	1	Back	5mm		Ant 5	DSI3	656000	3840	2	20.38	21.10	1.18			0.09	0.859	1.014
	FR1 n77	100M	BPSK	1	1	Back	5mm		Ant 5	DSI3	656000	3840	Cover	20.38	21.10	1.18			0.01	0.966	1.140
	FR1 n77	100M	BPSK	1	1	Front	5mm		Ant 8	DSI3	656000	3840	1	19.95	21.00	1.274			0.00	0.907	1.156
	FR1 n77	100M	BPSK	135	69	Front	5mm		Ant 8	DSI3	656000	3840	1	19.91	21.00	1.285			-0.07	0.999	1.284
	FR1 n77	100M	BPSK	270	0	Front	5mm		Ant 8	DSI3	656000	3840	1	19.83	21.00	1.309			0.13	0.742	0.972
	FR1 n77	100M	BPSK	1	1	Front	5mm	Headset	Ant 8	DSI3	656000	3840	1	19.95	21.00	1.274			0.06	0.900	1.147
	FR1 n77	100M	BPSK	1	1	Front	14mm		Ant 8	DSI4	656000	3840	1	20.03	21.20	1.309			0.06	0.271	0.355
	FR1 n77_HPUE	100M	BPSK	135	69	Front	5mm		Ant 8	DSI3	656000	3840	1	22.95	24.00	1.274	50.0	1.0	0.01	0.948	1.208
	FR1 n77	100M	BPSK	1	1	Back	5mm		Ant 8	DSI3	656000	3840	1	19.95	21.00	1.274			-0.03	0.866	1.103
	FR1 n77	100M	BPSK	135	69	Back	5mm		Ant 8	DSI3	656000	3840	1	19.91	21.00	1.285			-0.16	0.921	1.184
	FR1 n77	100M	BPSK	270	0	Back	5mm		Ant 8	DSI3	656000	3840	1	19.83	21.00	1.309			0.03	0.866	1.134
	FR1 n77	100M	BPSK	1	1	Back	17mm		Ant 8	DSI4	656000	3840	1	20.03	21.20	1.309			0.06	0.201	0.263
	FR1 n77_HPUE	100M	BPSK	1	1	Front	14mm		Ant 8	DSI4	656000	3840	1	23.06	24.20	1.3	50.0	1.0	0.06	0.263	0.342
	FR1 n77	100M	BPSK	135	69	Front	5mm		Ant 8	DSI3	656000	3840	2	19.91	21.00	1.285			0.06	0.866	1.113
	FR1 n77	100M	BPSK	135	69	Front	5mm		Ant 8	DSI3	656000	3840	Cover	19.91	21.00	1.285			0.01	0.948	1.218
	FR1 n77	100M	BPSK	1	1	Front	5mm		Ant 4	DSI3	656000	3840	1	22.89	24.00	1.291			0.03	0.721	0.930
	FR1 n77	100M	BPSK	135	69	Front	5mm		Ant 4	DSI3	656000	3840	1	22.85	24.00	1.303			0.01	0.847	1.103
	FR1 n77	100M	BPSK	270	0	Front	5mm		Ant 4	DSI3	656000	3840	1	22.34	23.50	1.306			-0.01	0.718	0.937
	FR1 n77	100M	BPSK	1	1	Back	5mm		Ant 4	DSI3	656000	3840	1	22.89	24.00	1.291			-0.08	0.934	1.206
	FR1 n77	100M	BPSK	135	69	Back	5mm		Ant 4	DSI3	656000	3840	1	22.85	24.00	1.303			-0.09	0.943	1.229
	FR1 n77	100M	BPSK	270	0	Back	5mm		Ant 4	DSI3	656000	3840	1	22.34	23.50	1.306			-0.10	0.854	1.116
	FR1 n77_HPUE	100M	BPSK	135	69	Back	5mm		Ant 4	DSI3	656000	3840	1	25.83	27.00	1.309	50.0	1.0	0.01	0.935	1.224
	FR1 n77	100M	BPSK	1	1	Back	5mm	Headset	Ant 4	DSI3	656000	3840	1	22.89	24.00	1.291			0.05	0.922	1.190
	FR1 n77	100M	BPSK	135	69	Back	5mm		Ant 4	DSI3	656000	3840	2	22.85	24.00	1.303			0.02	0.900	1.173
	FR1 n77	100M	BPSK	135	69	Back	5mm		Ant 4	DSI3	656000	3840	Cover	22.85	24.00	1.303			0.04	0.876	1.141



<PA (Reference Designator)>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Actual Duty Cycle %	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Note
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI3	21100	2535	1	19.35	20	1.161	100	1.000	100	-0.02	0.290	0.337	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI3	21100	2535	1	18.74	19.9	1.306	100	1.000	100	0.15	0.485	0.633	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI3	21350	2560	1	20.4	21.3	1.230	100	1.000	100	-0.09	0.587	0.722	PA (Reference Designator)
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 6	DSI3	21100	2535	1	18.76	20	1.330	100	1.000	100	0.11	0.816	1.085	PA (Reference Designator)
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	DSI3	26590	1905	1	20.96	22	1.271	100	1.000	100	-0.05	0.804	1.022	PA (Reference Designator)
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 6	DSI3	26140	1860	1	19.19	20	1.205	100	1.000	100	-0.08	0.458	0.552	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 0	DSI3	132572	1770	1	20.45	21	1.135	100	1.000	100	0.16	0.829	0.941	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI3	132072	1720	1	16.52	18	1.406	100	1.000	100	0.05	0.569	0.8	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI3	132322	1745	1	20.97	22	1.268	100	1.000	100	0.05	0.819	1.038	PA (Reference Designator)
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 6	DSI3	132572	1770	1	19.1	20	1.230	100	1.000	100	-0.03	0.509	0.626	PA (Reference Designator)
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 7	DSI3	55990	3625	1	20.98	22	1.265	62.9	1.006	63.3	-0.15	0.878	1.117	PA (Reference Designator)
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 5	DSI3	56150	3641	1	20.19	21	1.205	62.9	1.006	63.3	0.02	0.531	0.644	PA (Reference Designator)
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 1	DSI3	507000	2535	1	18.05	19.7	1.462	100	1.000	100	0.07	0.628	0.918	PA (Reference Designator)
	FR1 n25	40M	BPSK	108	54	Back	5mm	Ant 2	DSI3	376500	1882.5	1	20.28	21.9	1.452	100	1.000	100	0.16	0.561	0.815	PA (Reference Designator)
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 2	DSI3	349000	1745	1	20.64	21.7	1.276	100	1.000	100	0.13	0.520	0.664	PA (Reference Designator)
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 0	DSI3	518598	2592.99	1	22.19	23	1.205	100	1.000	100	-0.18	0.490	0.59	PA (Reference Designator)
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 1	DSI3	518598	2592.99	1	17.38	19.2	1.521	100	1.000	100	0.02	0.812	1.235	PA (Reference Designator)
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 7	DSI3	656000	3840	1	19.96	20.5	1.132	100	1.000	100	-0.03	0.896	1.014	PA (Reference Designator)
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 5	DSI3	656000	3840	1	19.83	21.1	1.340	100	1.000	100	-0.01	0.719	0.963	PA (Reference Designator)
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 8	DSI3	656000	3840	1	19.65	21	1.365	100	1.000	100	-0.06	0.704	0.961	PA (Reference Designator)
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 4	DSI3	656000	3840	1	22.64	24	1.368	100	1.000	100	-0.09	0.621	0.85	PA (Reference Designator)

<MIMO SAR>

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Headset	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)
	FR1 n77 PC2	100M	BPSK	1	1	Front	5mm		Ant 7+5	DSI3	656000	3840	1	22.44	23.5	1.278	50.000	1	-0.17	0.753	0.962
	FR1 n77 PC2	100M	BPSK	135	69	Front	5mm		Ant 7+5	DSI3	656000	3840	1	22.43	23.5	1.281	50.000	1	-0.08	0.611	0.783
	FR1 n77 PC2	100M	BPSK	270	0	Front	5mm		Ant 7+5	DSI3	656000	3840	1	22.34	23.5	1.307	50.000	1	-0.04	0.677	0.885
	FR1 n77 PC2	100M	BPSK	1	1	Back	5mm		Ant 7+5	DSI3	656000	3840	1	22.44	23.5	1.278	50.000	1	-0.08	0.980	1.252
	FR1 n77 PC2	100M	BPSK	135	69	Back	5mm		Ant 7+5	DSI3	656000	3840	1	22.43	23.5	1.281	50.000	1	0.17	0.753	0.965
	FR1 n77 PC2	100M	BPSK	270	0	Back	5mm		Ant 7+5	DSI3	656000	3840	1	22.34	23.5	1.307	50.000	1	0.18	0.898	1.174
	FR1 n77_PC1.5	100M	BPSK	1	1	Back	5mm		Ant 7+5	DSI3	656000	3840	1	25.51	26.5	1.256	25.000	1	-0.04	0.862	1.083
	FR1 n77 PC2	100M	BPSK	1	1	Back	5mm	Headset	Ant 7+5	DSI3	656000	3840	1	22.44	23.5	1.278	50.000	1	-0.08	0.900	1.150

【WLAN 2.4GHz_5GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Headset	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm		Ant 6+3(6)	Body-worn Standalone	1	2412	1	20.21	21.50	1.346	97.03	1.031	-0.01	0.542	0.752
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm		Ant 6+3(6)	Body-worn Standalone	1	2412	1	20.21	21.50	1.346	97.03	1.031	-0.08	0.704	0.977
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm		Ant 6+3(6)	Body-worn Standalone	6	2437	1	19.84	21.50	1.466	97.03	1.031	0.03	0.796	1.203
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Headset	Ant 6+3(6)	Body-worn Standalone	1	2412	1	20.21	21.50	1.346	97.03	1.031	0.02	0.689	0.956
80	WLAN2.4GHz	802.11b 1Mbps	Back	5mm		Ant 6+3(3)	Body-worn Standalone	11	2462	1	19.89	21.50	1.449	97.03	1.031	0.07	0.843	1.259
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm		Ant 6+3(6)	Body-worn Standalone	11	2462	2	20.09	21.50	1.384	97.03	1.031	0.02	0.755	1.077
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm		Ant 6+3(6)	Body-worn Standalone	11	2462	Cover	20.09	21.50	1.384	97.03	1.031	0.09	0.796	1.136
	WLAN2.4GHz	802.11g 6Mbps	Back	5mm		Ant 6+3(6)	Body-worn Standalone	6	2437	1	19.98	21.50	1.419	98.63	1.014	0.06	0.759	1.092
	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm		Ant 5+4(5)	Body-worn Standalone	54	5270	1	19.37	21.00	1.455	100.0	1.0	0.03	0.517	0.752
81	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm		Ant 5+4(5)	Body-worn Standalone	54	5270	1	19.37	21.00	1.455	100.0	1.0	-0.07	0.760	1.106
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm		Ant 5+4(4)	Body-worn Standalone	62	5310	1	16.48	18.00	1.419	100.0	1.0	0.01	0.512	0.727
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm		Ant 5+4(5)	Body-worn Standalone	54	5270	2	19.37	21.00	1.455	100.0	1.0	0.06	0.688	1.001
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm		Ant 5+4(5)	Body-worn Standalone	54	5270	Cover	19.37	21.00	1.455	100.0	1.0	-0.03	0.616	0.896
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm		Ant 5+4(4)	Body-worn Standalone	122	5610	1	18.28	20.00	1.486	100.0	1.0	0.01	0.507	0.753
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	14mm		Ant 5+4(5)	Full Power	138	5690	1	19.68	21.50	1.521	100.0	1.0	0.01	0.362	0.551
82	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm		Ant 5+4(4)	Body-worn Standalone	122	5610	1	18.28	20.00	1.486	100.0	1.0	-0.06	0.781	1.161
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm		Ant 5+4(5)	Body-worn Standalone	138	5690	1	18.23	20.00	1.503	100.0	1.0	0.03	0.711	1.069
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	17mm		Ant 5+4(5)	Full Power	138	5690	1	19.68	21.50	1.521	100.0	1.0	0.06	0.203	0.309
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm		Ant 5+4(4)	Body-worn Standalone	122	5610	2	18.28	20.00	1.486	100.0	1.0	0.01	0.685	1.018



FCC SAR Test Report

Report No. : FA591906

	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm		Ant 5+4(4)	Body-worn Standalone	122	5610	Cover	18.28	20.00	1.486	100.0	1.0	-0.06	0.724	1.076
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm		Ant 5+4(4)	Body-worn Standalone	155	5775	1	18.03	19.50	1.403	100.0	1.0	0.01	0.462	0.648
	WLAN5GHz	802.11n-HT40 MCS0	Front	14mm		Ant 5+4(5)	Full Power	159	5795	1	19.92	21.50	1.439	100.0	1.0	-0.06	0.329	0.473
83	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm		Ant 5+4(4)	Body-worn Standalone	155	5775	1	18.03	19.50	1.403	100.0	1.0	0.13	0.825	1.157
	WLAN5GHz	802.11n-HT40 MCS0	Back	17mm		Ant 5+4(5)	Full Power	159	5795	1	19.92	21.50	1.439	100.0	1.0	0.06	0.264	0.380
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm		Ant 5+4(4)	Body-worn Standalone	155	5775	2	18.03	19.50	1.403	100.0	1.0	0.09	0.774	1.086
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm		Ant 5+4(4)	Body-worn Standalone	155	5775	Cover	18.03	19.50	1.403	100.0	1.0	0.02	0.759	1.065

【WLAN 6GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11be-EHT320 MCS0	Front	5mm	Ant 5+4(4)	Body-worn Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	0.03	0.123	0.177	1.250
	WLAN6GHz	802.11be-EHT320 MCS0	Front	14mm	Ant 5+4(4)	Full Power	31	6105	1	16.89	18.50	1.449	100.0	1.0	-0.01	0.106	0.154	1.010
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 5+4(4)	Body-worn Standalone	159	6745	1	15.93	17.50	1.435	100.0	1.0	0.02	0.155	0.222	1.420
	WLAN6GHz	802.11be-EHT320 MCS0	Back	17mm	Ant 5+4(4)	Full Power	31	6105	1	16.89	18.50	1.449	100.0	1.0	0.06	0.173	0.251	1.580
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 5+4(4)	Body-worn Standalone	31	6105	1	16.31	18.00	1.476	100.0	1.0	0.08	0.426	0.629	3.090
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 5+4(4)	Body-worn Standalone	63	6265	1	16.03	17.50	1.403	100.0	1.0	-0.17	0.383	0.537	2.780
84	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 5+4(5)	Body-worn Standalone	95	6425	1	15.89	17.50	1.449	100.0	1.0	0.08	0.441	0.639	3.160
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 5+4(4)	Body-worn Standalone	127	6585	1	15.94	17.50	1.432	100.0	1.0	-0.03	0.282	0.404	1.950
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 5+4(4)	Body-worn Standalone	191	6905	1	15.48	17.00	1.419	100.0	1.0	0.02	0.204	0.289	1.790
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 5+4(5)	Body-worn Standalone	95	6425	2	15.89	17.50	1.449	100.0	1.0	0.06	0.356	0.516	2.560
	WLAN6GHz	802.11be-EHT320 MCS0	Back	5mm	Ant 5+4(5)	Body-worn Standalone	95	6425	Cover	15.89	17.50	1.449	100.0	1.0	-0.01	0.386	0.559	2.800

【Bluetooth SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	BT6.0 ASK 1Mbps	Front	5mm	Ant 6	Body-worn Standalone	38	2440	1	19.88	21.00	1.294	100.0	1.0	0.18	0.542	0.701
85	Bluetooth	BT6.0 ASK 1Mbps	Back	5mm	Ant 6	Body-worn Standalone	38	2440	1	19.88	21.00	1.294	100.0	1.0	-0.03	0.743	0.961
	Bluetooth	BT6.0 ASK 1Mbps	Back	5mm	Ant 6	Body-worn Standalone	2	2404	1	18.12	20.00	1.542	100.0	1.0	0.01	0.433	0.668
	Bluetooth	BT6.0 ASK 1Mbps	Back	5mm	Ant 6	Body-worn Standalone	76	2478	1	18.49	20.00	1.416	100.0	1.0	0.03	0.538	0.762
	Bluetooth	BT6.0 ASK 1Mbps	Front	5mm	Ant 3	Body-worn Standalone	38	2440	1	16.71	18.00	1.346	100.0	1.0	0.01	0.144	0.194
	Bluetooth	BT6.0 ASK 1Mbps	Back	5mm	Ant 3	Body-worn Standalone	38	2440	1	16.71	18.00	1.346	100.0	1.0	-0.03	0.171	0.230

16.4 Product specific 10g SAR

[GSM SAR]

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	GSM1900	GPRS 4 Tx slots	Front	0mm	Ant 1	DS16	661	1880	1	23.10	23.90	1.202	0.07	1.350	1.623
	GSM1900	GPRS 4 Tx slots	Front	6mm	Ant 1	DS14	661	1880	1	23.78	25.00	1.324	0.01	0.666	0.882
	GSM1900	GPRS 4 Tx slots	Back	0mm	Ant 1	DS16	661	1880	1	23.10	23.90	1.202	-0.17	1.870	2.248
	GSM1900	GPRS 4 Tx slots	Back	0mm	Ant 1	DS16	512	1850.2	1	23.05	23.90	1.216	0.05	1.380	1.678
	GSM1900	GPRS 4 Tx slots	Back	0mm	Ant 1	DS16	810	1909.8	1	23.03	23.90	1.222	0.18	1.770	2.163
	GSM1900	GPRS 4 Tx slots	Back	8mm	Ant 1	DS14	661	1880	1	23.78	25.00	1.324	-0.02	0.801	1.061
	GSM1900	GPRS 4 Tx slots	Left Side	0mm	Ant 1	DS16	661	1880	1	23.10	23.90	1.202	-0.15	1.290	1.551
	GSM1900	GPRS 4 Tx slots	Left Side	10mm	Ant 1	DS14	661	1880	1	23.78	25.00	1.324	-0.03	0.436	0.577
	GSM1900	GPRS 4 Tx slots	Top Side	0mm	Ant 1	DS16	661	1880	1	23.10	23.90	1.202	0.17	2.350	2.825
	GSM1900	GPRS 4 Tx slots	Top Side	0mm	Ant 1	DS16	512	1850.2	1	23.05	23.90	1.216	0.02	2.180	2.651
86	GSM1900	GPRS 4 Tx slots	Top Side	0mm	Ant 1	DS16	810	1909.8	1	23.03	23.90	1.222	0.10	2.580	3.153
	GSM1900	GPRS 4 Tx slots	Top Side	7mm	Ant 1	DS14	661	1880	1	23.78	25.00	1.324	0.06	0.775	1.026
	GSM1900	GPRS 2 Tx slots	Front	0mm	Ant 2	DS16	661	1880	1	26.24	27.50	1.337	0.07	1.610	2.153
	GSM1900	GPRS 2 Tx slots	Front	0mm	Ant 2	DS16	512	1850.2	1	26.15	27.50	1.365	-0.04	1.170	1.597
	GSM1900	GPRS 2 Tx slots	Front	0mm	Ant 2	DS16	810	1909.8	1	26.08	27.50	1.387	-0.11	1.470	2.039
	GSM1900	GPRS 2 Tx slots	Back	0mm	Ant 2	DS16	661	1880	1	26.24	27.50	1.337	-0.05	1.650	2.206
	GSM1900	GPRS 2 Tx slots	Back	0mm	Ant 2	DS16	512	1850.2	1	26.15	27.50	1.365	0.04	1.310	1.788
	GSM1900	GPRS 2 Tx slots	Back	0mm	Ant 2	DS16	810	1909.8	1	26.08	27.50	1.387	-0.09	1.250	1.734
	GSM1900	GPRS 2 Tx slots	Bottom Side	0mm	Ant 2	DS16	661	1880	1	26.24	27.50	1.337	0.07	1.420	1.899

[WCDMA SAR]

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 1	DS16	9400	1880	1	21.10	21.90	1.202	0.15	1.880	2.260
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 1	DS16	9262	1852.4	1	21.06	21.90	1.213	-0.09	1.850	2.244
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 1	DS16	9538	1907.6	1	21.04	21.90	1.219	0.10	1.530	1.865
	WCDMA II	RMC 12.2Kbps	Front	6mm	Ant 1	DS14	9400	1880	1	21.48	23.00	1.419	0.05	0.673	0.955
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DS16	9400	1880	1	21.10	21.90	1.202	0.18	2.500	3.005
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DS16	9262	1852.4	1	21.06	21.90	1.213	-0.01	2.620	3.178
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DS16	9538	1907.6	1	21.04	21.90	1.219	0.04	2.180	2.657
	WCDMA II	RMC 12.2Kbps	Back	8mm	Ant 1	DS14	9400	1880	1	21.48	23.00	1.419	-0.01	0.759	1.077
	WCDMA II	RMC 12.2Kbps	Left Side	0mm	Ant 1	DS16	9400	1880	1	21.10	21.90	1.202	0.14	1.980	2.380
	WCDMA II	RMC 12.2Kbps	Left Side	0mm	Ant 1	DS16	9262	1852.4	1	21.06	21.90	1.213	-0.08	1.880	2.280
	WCDMA II	RMC 12.2Kbps	Left Side	0mm	Ant 1	DS16	9538	1907.6	1	21.04	21.90	1.219	-0.01	1.980	2.414
	WCDMA II	RMC 12.2Kbps	Left Side	10mm	Ant 1	DS14	9400	1880	1	21.48	23.00	1.419	0.06	0.442	0.627
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 1	DS16	9400	1880	1	21.10	21.90	1.202	-0.17	1.850	2.224
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 1	DS16	9262	1852.4	1	21.06	21.90	1.213	-0.16	2.270	2.754
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 1	DS16	9538	1907.6	1	21.04	21.90	1.219	0.15	1.670	2.036
	WCDMA II	RMC 12.2Kbps	Top Side	7mm	Ant 1	DS14	9400	1880	1	21.48	23.00	1.419	0.06	0.811	1.151
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DS16	9262	1852.4	2	21.06	21.90	1.213	0.06	2.240	2.717
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DS16	9262	1852.4	Cover	21.06	21.90	1.213	0.01	2.500	3.033
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 2	DS16	9400	1880	1	22.75	23.70	1.245	0.10	2.390	2.976
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 2	DS16	9262	1852.4	1	22.66	23.70	1.271	-0.18	2.360	3.000
87	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 2	DS16	9538	1907.6	1	22.71	23.70	1.256	0.01	2.540	3.190
	WCDMA II	RMC 12.2Kbps	Front	9mm	Ant 2	DS14	9400	1880	1	22.75	24.00	1.334	0.06	0.318	0.424
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DS16	9400	1880	1	22.75	23.70	1.245	-0.17	2.470	3.075
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DS16	9262	1852.4	1	22.66	23.70	1.271	-0.08	2.380	3.025
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DS16	9538	1907.6	1	22.71	23.70	1.256	-0.05	2.440	3.065
	WCDMA II	RMC 12.2Kbps	Back	12mm	Ant 2	DS14	9400	1880	1	22.75	24.00	1.334	-0.06	0.225	0.300
	WCDMA II	RMC 12.2Kbps	Right Side	0mm	Ant 2	DS16	9400	1880	1	22.75	23.70	1.245	-0.14	0.630	0.785
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DS16	9400	1880	1	22.75	23.70	1.245	-0.08	2.150	2.677
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DS16	9262	1852.4	1	22.66	23.70	1.271	0.14	1.860	2.364
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DS16	9538	1907.6	1	22.71	23.70	1.256	0.05	2.250	2.826
	WCDMA II	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DS14	9400	1880	1	22.75	24.00	1.334	0.01	0.512	0.683
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 2	DS16	9538	1907.6	2	22.71	23.70	1.256	0.06	2.360	2.964
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 2	DS16	9538	1907.6	Cover	22.71	23.70	1.256	-0.03	2.390	3.002
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 1	DS16	1413	1732.6	1	21.15	22.30	1.303	0.16	1.660	2.163
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 1	DS16	1312	1712.4	1	21.09	22.30	1.321	0.14	1.700	2.246
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 1	DS16	1513	1752.6	1	21.12	22.30	1.312	-0.12	1.590	2.086
	WCDMA IV	RMC 12.2Kbps	Front	6mm	Ant 1	DS14	1413	1732.6	1	21.48	23.00	1.419	0.06	0.849	1.205
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DS16	1413	1732.6	1	21.15	22.30	1.303	0.02	2.310	3.010
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DS16	1312	1712.4	1	21.09	22.30	1.321	-0.18	2.370	3.131
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DS16	1513	1752.6	1	21.12	22.30	1.312	-0.04	2.220	2.913
	WCDMA IV	RMC 12.2Kbps	Back	8mm	Ant 1	DS14	1413	1732.6	1	21.48	23.00	1.419	-0.05	1.150	1.632



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	WCDMA IV	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSi6	1413	1732.6	1	21.15	22.30	1.303	0.13	1.550	2.020
	WCDMA IV	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSi6	1312	1712.4	1	21.09	22.30	1.321	-0.10	1.590	2.100
	WCDMA IV	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSi6	1513	1752.6	1	21.12	22.30	1.312	-0.11	1.540	2.020
	WCDMA IV	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSi4	1413	1732.6	1	21.48	23.00	1.419	0.03	0.633	0.898
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSi6	1413	1732.6	1	21.15	22.30	1.303	-0.05	2.390	3.114
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSi6	1312	1712.4	1	21.09	22.30	1.321	0.07	2.340	3.091
88	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSi6	1513	1752.6	1	21.12	22.30	1.312	0.01	2.430	3.188
	WCDMA IV	RMC 12.2Kbps	Top Side	7mm	Ant 1	DSi4	1413	1732.6	1	21.48	23.00	1.419	-0.02	0.838	1.189
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 2	DSi6	1413	1732.6	1	22.72	23.80	1.282	0.01	2.460	3.154
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 2	DSi6	1312	1712.4	1	22.71	23.80	1.285	-0.07	2.430	3.123
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 2	DSi6	1513	1752.6	1	22.66	23.80	1.3	-0.16	2.410	3.133
	WCDMA IV	RMC 12.2Kbps	Front	9mm	Ant 2	DSi4	1413	1732.6	1	22.72	24.00	1.343	0.03	0.289	0.388
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSi6	1413	1732.6	1	22.72	23.80	1.282	0.12	2.280	2.923
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSi6	1312	1712.4	1	22.71	23.80	1.285	-0.17	2.300	2.955
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSi6	1513	1752.6	1	22.66	23.80	1.3	-0.11	2.240	2.912
	WCDMA IV	RMC 12.2Kbps	Back	12mm	Ant 2	DSi4	1413	1732.6	1	22.72	24.00	1.343	-0.05	0.199	0.267
	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSi6	1413	1732.6	1	22.72	23.80	1.282	0.17	1.170	1.500
	WCDMA IV	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSi4	1413	1732.6	1	22.72	24.00	1.343	0.01	0.492	0.661
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 2	DSi6	1413	1732.6	2	22.72	23.80	1.282	0.06	2.190	2.808
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 2	DSi6	1413	1732.6	Cover	22.72	23.80	1.282	-0.07	2.330	2.987
89	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 0	DSi6	4182	836.4	1	23.10	24.00	1.23	-0.01	1.420	1.747
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 0	DSi6	4182	836.4	2	23.10	24.00	1.23	0.06	1.280	1.574
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 0	DSi6	4182	836.4	Cover	23.10	24.00	1.23	-0.06	1.360	1.673
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 1	DSi6	4182	836.4	1	23.22	24.00	1.197	-0.02	0.985	1.179
	WCDMA V	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSi6	4182	836.4	1	23.22	24.00	1.197	0.07	0.783	0.937
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 1	DSi6	4182	836.4	2	23.22	24.00	1.197	0.03	0.848	1.015
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 1	DSi6	4182	836.4	Cover	23.22	24.00	1.197	0.05	0.933	1.117

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 0	DSi6	21100	2535	1	22.29	23.00	1.178			-0.04	0.633	0.746
	LTE Band 7	20M	QPSK	50	0	Left Side	0mm	Ant 0	DSi6	21100	2535	1	21.23	22.00	1.194			-0.12	0.404	0.482
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 0	DSi6	21100+20902	2535+2515.2	1	22.13	23.00	1.222			0.03	0.577	0.705
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 1	DSi6	21100	2535	1	20.83	21.90	1.279			-0.19	1.300	1.663
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 1	DSi6	21100	2535	1	20.80	21.90	1.288			-0.18	0.823	1.060
	LTE Band 7	20M	QPSK	1	0	Front	6mm	Ant 1	DSi4	21100	2535	1	22.88	24.00	1.294			-0.06	0.381	0.493
90	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	21100	2535	1	20.83	21.90	1.279			0.03	2.470	3.159
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	20850	2510	1	20.81	21.90	1.285			0.17	2.430	3.123
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	21350	2560	1	20.76	21.90	1.3			0.03	2.400	3.120
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 1	DSi6	21100	2535	1	20.80	21.90	1.288			-0.07	1.560	2.009
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 1	DSi6	20850	2510	1	20.74	21.90	1.306			0.16	1.600	2.090
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 1	DSi6	21350	2560	1	20.73	21.90	1.309			-0.16	1.580	2.068
	LTE Band 7	20M	QPSK	100	0	Back	0mm	Ant 1	DSi6	21100	2535	1	20.72	21.90	1.312			-0.05	1.550	2.034
	LTE Band 7	20M	QPSK	1	0	Back	8mm	Ant 1	DSi4	21100	2535	1	22.88	24.00	1.294			0.06	0.441	0.571
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	21100	2535	1	20.83	21.90	1.279			-0.06	1.850	2.366
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	20850	2510	1	20.81	21.90	1.285			0.15	1.890	2.429
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	21350	2560	1	20.76	21.90	1.3			-0.01	1.710	2.223
	LTE Band 7	20M	QPSK	50	0	Left Side	0mm	Ant 1	DSi6	21100	2535	1	20.80	21.90	1.288			-0.18	1.090	1.404
	LTE Band 7	20M	QPSK	100	0	Left Side	0mm	Ant 1	DSi6	21100	2535	1	20.72	21.90	1.312			0.19	1.080	1.417
	LTE Band 7	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSi4	21100	2535	1	22.88	24.00	1.294			-0.01	0.356	0.461
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	21100	2535	1	20.83	21.90	1.279			-0.00	1.310	1.675
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSi6	21100	2535	1	20.80	21.90	1.288			-0.06	0.819	1.055
	LTE Band 7	20M	QPSK	1	0	Top Side	7mm	Ant 1	DSi4	21100	2535	1	22.88	24.00	1.294			0.03	0.436	0.564
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	21100+20902	2535+2515.2	1	20.75	21.90	1.303			0.01	2.220	2.893
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	21100	2535	1	20.86	22.00	1.3			0.01	1.060	1.378
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 2	DSi6	21100	2535	1	20.82	22.00	1.312			0.02	0.675	0.885
	LTE Band 7	20M	QPSK	1	0	Front	9mm	Ant 2	DSi4	21100	2535	1	22.91	24.00	1.285			0.04	0.244	0.314
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	21100	2535	1	20.86	22.00	1.3			0.00	1.340	1.742
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 2	DSi6	21100	2535	1	20.82	22.00	1.312			-0.13	0.814	1.068
	LTE Band 7	20M	QPSK	1	0	Back	12mm	Ant 2	DSi4	21100	2535	1	22.91	24.00	1.285			-0.03	0.173	0.222
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	21100	2535	1	20.86	22.00	1.3			0.13	1.870	2.431
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	20850	2510	1	20.80	22.00	1.318			-0.02	2.390	3.150
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	21350	2560	1	20.82	22.00	1.312			0.17	1.880	2.467
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSi6	21100	2535	1	20.82	22.00	1.312			-0.15	1.160	1.522
	LTE Band 7	20M	QPSK	100	0	Bottom Side	0mm	Ant 2	DSi6	21350	2560	1	20.74	22.00	1.337			0.15	1.160	1.551
	LTE Band 7	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSi4	21100	2535	1	22.91	24.00	1.285			0.05	0.468	0.601
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	20850+21048	2510+2529.8	1	20.66	22.00	1.361			0.06	2.100	2.858
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 6	DSi6	21100	2535	1	20.83	22.00	1.309			-0.04	1.150	1.505
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 6	DSi6	21100	2535	1	19.88	21.00	1.294			0.01	0.727	0.941



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	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 6	DSi6	21100	2535	1	20.83	22.00	1.309			-0.03	0.589	0.771
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 6	DSi6	21100	2535	1	19.88	21.00	1.294			0.02	0.346	0.448
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	21100	2535	1	20.83	22.00	1.309			-0.04	2.270	2.971
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	20850	2510	1	20.74	22.00	1.337			0.10	2.200	2.941
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	21350	2560	1	20.77	22.00	1.327			0.06	2.040	2.707
	LTE Band 7	20M	QPSK	50	0	Right Side	0mm	Ant 6	DSi6	21100	2535	1	19.88	21.00	1.294			0.11	1.440	1.863
	LTE Band 7	20M	QPSK	100	0	Right Side	0mm	Ant 6	DSi6	21100	2535	1	19.78	21.00	1.324			0.10	1.440	1.907
	LTE Band 7	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	21100+20902	2535+2515.2	1	20.51	22.00	1.409			0.02	2.010	2.832
	LTE Band 25	20M	QPSK	1	0	Front	0mm	Ant 0	DSi6	26340	1880	1	22.05	22.80	1.189			0.03	1.870	2.223
	LTE Band 25	20M	QPSK	1	0	Front	0mm	Ant 0	DSi6	26140	1860	1	21.87	22.80	1.239			0.09	1.800	2.230
	LTE Band 25	20M	QPSK	1	0	Front	0mm	Ant 0	DSi6	26590	1905	1	21.87	22.80	1.239			0.03	1.740	2.156
	LTE Band 25	20M	QPSK	50	0	Front	0mm	Ant 0	DSi6	26340	1880	1	20.92	22.00	1.282			-0.17	1.140	1.461
	LTE Band 25	20M	QPSK	100	0	Front	0mm	Ant 0	DSi6	26340	1880	1	20.75	22.00	1.334			0.07	1.080	1.441
	LTE Band 25	20M	QPSK	1	0	Front	9mm	Ant 0	DSi4	26340	1880	1	22.05	23.00	1.245			0.03	0.285	0.355
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	26340	1880	1	22.05	22.80	1.189			-0.14	2.500	2.973
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	26140	1860	1	21.87	22.80	1.239			-0.08	2.500	3.098
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	26590	1905	1	21.87	22.80	1.239			-0.05	2.550	3.159
	LTE Band 25	20M	QPSK	50	0	Back	0mm	Ant 0	DSi6	26340	1880	1	20.92	22.00	1.282			-0.18	1.530	1.961
	LTE Band 25	20M	QPSK	100	0	Back	0mm	Ant 0	DSi6	26340	1880	1	20.75	22.00	1.334			-0.04	1.510	2.014
	LTE Band 25	20M	QPSK	1	0	Back	12mm	Ant 0	DSi4	26340	1880	1	22.05	23.00	1.245			-0.05	0.199	0.248
	LTE Band 25	20M	QPSK	1	0	Left Side	0mm	Ant 0	DSi6	26340	1880	1	22.05	22.80	1.189			-0.11	1.480	1.760
	LTE Band 25	20M	QPSK	50	0	Left Side	0mm	Ant 0	DSi6	26340	1880	1	20.92	22.00	1.282			0.05	0.899	1.153
	LTE Band 25	20M	QPSK	1	0	Left Side	13mm	Ant 0	DSi4	26340	1880	1	22.05	23.00	1.245			0.06	0.445	0.554
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	19100+18902	1900+1880.2	1	21.69	22.80	1.291			0.06	2.210	2.853
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	26590	1905	2	21.87	22.80	1.239			0.03	2.210	2.738
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	26590	1905	Cover	21.87	22.80	1.239			0.01	2.390	2.961
	LTE Band 25	20M	QPSK	1	0	Front	0mm	Ant 1	DSi6	26340	1880	1	20.56	21.80	1.33			0.03	1.370	1.822
	LTE Band 25	20M	QPSK	50	0	Front	0mm	Ant 1	DSi6	26340	1880	1	20.53	21.80	1.34			0.15	0.836	1.120
	LTE Band 25	20M	QPSK	1	0	Front	6mm	Ant 1	DSi4	26340	1880	1	22.95	24.00	1.274			0.05	0.672	0.856
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	26340	1880	1	20.56	21.80	1.33			-0.04	1.890	2.514
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	26140	1860	1	20.53	21.80	1.34			-0.03	1.900	2.546
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	26590	1905	1	20.51	21.80	1.346			-0.01	1.980	2.665
	LTE Band 25	20M	QPSK	50	0	Back	0mm	Ant 1	DSi6	26340	1880	1	20.53	21.80	1.34			-0.00	1.140	1.528
	LTE Band 25	20M	QPSK	100	0	Back	0mm	Ant 1	DSi6	26140	1860	1	20.49	21.80	1.352			-0.09	1.110	1.501
	LTE Band 25	20M	QPSK	1	0	Back	8mm	Ant 1	DSi4	26340	1880	1	22.95	24.00	1.274			-0.05	0.796	1.014
	LTE Band 25	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	26340	1880	1	20.56	21.80	1.33			0.12	1.540	2.048
	LTE Band 25	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	26140	1860	1	20.53	21.80	1.34			-0.00	1.640	2.198
	LTE Band 25	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	26590	1905	1	20.51	21.80	1.346			0.11	1.560	2.100
	LTE Band 25	20M	QPSK	50	0	Left Side	0mm	Ant 1	DSi6	26340	1880	1	20.53	21.80	1.34			0.16	0.949	1.272
	LTE Band 25	20M	QPSK	100	0	Left Side	0mm	Ant 1	DSi6	26140	1860	1	20.49	21.80	1.352			0.02	0.943	1.274
	LTE Band 25	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSi4	26340	1880	1	22.95	24.00	1.274			-0.01	0.445	0.567
	LTE Band 25	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	26340	1880	1	20.56	21.80	1.33			-0.03	1.950	2.594
91	LTE Band 25	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	26140	1860	1	20.53	21.80	1.34			0.04	2.370	3.176
	LTE Band 25	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	26590	1905	1	20.51	21.80	1.346			0.17	2.300	3.096
	LTE Band 25	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSi6	26340	1880	1	20.53	21.80	1.34			0.03	1.070	1.434
	LTE Band 25	20M	QPSK	100	0	Top Side	0mm	Ant 1	DSi6	26140	1860	1	20.49	21.80	1.352			0.16	0.719	0.972
	LTE Band 25	20M	QPSK	1	0	Top Side	7mm	Ant 1	DSi4	26340	1880	1	22.95	24.00	1.274			0.03	0.823	1.049
	LTE Band 2	20M	QPSK	1	99	Top Side	0mm	Ant 1	DSi6	18700+18898	1860+1879.8	1	20.33	21.80	1.403			0.06	2.080	2.918
	LTE Band 25	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	26340	1880	1	23.02	24.00	1.253			0.19	2.320	2.907
	LTE Band 25	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	26140	1860	1	22.94	24.00	1.276			0.13	2.350	2.999
	LTE Band 25	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	26590	1905	1	22.96	24.00	1.271			0.06	2.450	3.114
	LTE Band 25	20M	QPSK	50	0	Front	0mm	Ant 2	DSi6	26340	1880	1	22.11	23.00	1.227			-0.05	1.420	1.742
	LTE Band 25	20M	QPSK	100	0	Front	0mm	Ant 2	DSi6	26340	1880	1	21.84	23.00	1.306			0.10	1.390	1.815
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	26340	1880	1	23.02	24.00	1.253			0.05	2.410	3.020
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	26140	1860	1	22.94	24.00	1.276			-0.03	2.400	3.062
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	26590	1905	1	22.96	24.00	1.271			-0.12	2.380	3.025
	LTE Band 25	20M	QPSK	50	0	Back	0mm	Ant 2	DSi6	26340	1880	1	22.11	23.00	1.227			-0.01	1.470	1.804
	LTE Band 25	20M	QPSK	100	0	Back	0mm	Ant 2	DSi6	26340	1880	1	21.84	23.00	1.306			0.09	1.430	1.868
	LTE Band 25	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	26340	1880	1	23.02	24.00	1.253			0.16	2.110	2.644
	LTE Band 25	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	26140	1860	1	22.94	24.00	1.276			-0.01	2.070	2.641
	LTE Band 25	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	26590	1905	1	22.96	24.00	1.271			0.13	2.160	2.745
	LTE Band 25	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSi6	26340	1880	1	22.11	23.00	1.227			-0.13	1.280	1.571
	LTE Band 25	20M	QPSK	100	0	Bottom Side	0mm	Ant 2	DSi6	26340	1880	1	21.84	23.00	1.306			0.12	1.270	1.659
	LTE Band 2	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	19100+18902	1900+1880.2	1	22.42	24.00	1.439			0.06	2.030	2.921
	LTE Band 25	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	26340	1880	1	21.11	22.00	1.227			0.02	2.400	2.945
	LTE Band 25	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	26140	1860	1	21.08	22.00	1.236			0.01	2.490	3.078
	LTE Band 25	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	26590	1905	1	21.05	22.00	1.245			-0.14	2.210	2.751
	LTE Band 25	20M	QPSK	50	0	Right Side	0mm	Ant 6	DSi6	26340	1880	1	20.21	21.00	1.199			0.09	1.480	1.775
	LTE Band 25	20M	QPSK	100	0	Right Side	0mm	Ant 6	DSi6	26340	1880	1	20.13	21.00	1.222			0.06	1.460	1.784
	LTE Band 2	20M	QPSK	1	99	Right Side	0mm	Ant 6	DSi6	18700+18898	1860+1879.8	1	20.97	22.00	1.268			0.06	2.280	2.891
	LTE Band 25	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	26140	1860	2	21.08	22.00	1.236			0.03	2.150	2.657
	LTE Band 25	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	26140	1860	Cover	21.08	22.00	1.236			-0.05	2.380	2.942
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 0	DSi6	132322	1745	1								



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	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 0	DSi6	132072	1720	1	21.72	23.00	1.343			-0.03	2.160	2.901
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 0	DSi6	132572	1770	1	21.84	23.00	1.306			-0.03	1.890	2.468
	LTE Band 66	20M	QPSK	50	0	Front	0mm	Ant 0	DSi6	132322	1745	1	20.88	22.00	1.294			0.04	1.180	1.527
	LTE Band 66	20M	QPSK	100	0	Front	0mm	Ant 0	DSi6	132072	1720	1	20.76	22.00	1.33			-0.10	1.140	1.516
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	132322	1745	1	21.86	23.00	1.3			0.06	1.940	2.522
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	132072	1720	1	21.72	23.00	1.343			-0.14	2.170	2.914
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	132572	1770	1	21.84	23.00	1.306			-0.11	2.140	2.795
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 0	DSi6	132322	1745	1	20.88	22.00	1.294			0.07	1.200	1.553
	LTE Band 66	20M	QPSK	100	0	Back	0mm	Ant 0	DSi6	132072	1720	1	20.76	22.00	1.33			0.17	1.170	1.556
	LTE Band 66	20M	QPSK	1	0	Left Side	0mm	Ant 0	DSi6	132322	1745	1	21.86	23.00	1.3			0.18	1.520	1.976
	LTE Band 66	20M	QPSK	50	0	Left Side	0mm	Ant 0	DSi6	132322	1745	1	20.88	22.00	1.294			0.07	0.950	1.229
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	132072	1720	2	21.72	23.00	1.343			0.03	1.880	2.525
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 0	DSi6	132072	1720	Cover	21.72	23.00	1.343			-0.05	2.060	2.767
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 1	DSi6	132322	1745	1	20.35	21.70	1.365			-0.17	1.630	2.225
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 1	DSi6	132072	1720	1	20.31	21.70	1.377			-0.04	1.700	2.341
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 1	DSi6	132572	1770	1	20.32	21.70	1.374			0.17	1.230	1.690
	LTE Band 66	20M	QPSK	50	0	Front	0mm	Ant 1	DSi6	132322	1745	1	20.32	21.70	1.374			0.08	1.040	1.429
	LTE Band 66	20M	QPSK	100	0	Front	0mm	Ant 1	DSi6	132072	1720	1	20.24	21.70	1.4			-0.13	1.030	1.442
	LTE Band 66	20M	QPSK	1	0	Front	6mm	Ant 1	DSi4	132322	1745	1	22.41	24.00	1.442			-0.03	0.892	1.286
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	132322	1745	1	20.35	21.70	1.365			-0.05	2.210	3.017
92	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	132072	1720	1	20.31	21.70	1.377			-0.09	2.290	3.153
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	132572	1770	1	20.32	21.70	1.374			0.13	1.770	2.432
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 1	DSi6	132322	1745	1	20.32	21.70	1.374			0.03	1.400	1.924
	LTE Band 66	20M	QPSK	100	0	Back	0mm	Ant 1	DSi6	132072	1720	1	20.24	21.70	1.4			-0.04	1.420	1.988
	LTE Band 66	20M	QPSK	1	0	Back	8mm	Ant 1	DSi4	132322	1745	1	22.41	24.00	1.442			0.01	1.080	1.557
	LTE Band 66	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	132322	1745	1	20.35	21.70	1.365			-0.18	1.460	1.993
	LTE Band 66	20M	QPSK	50	0	Left Side	0mm	Ant 1	DSi6	132322	1745	1	20.32	21.70	1.374			-0.13	0.938	1.288
	LTE Band 66	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSi4	132322	1745	1	22.41	24.00	1.442			-0.03	0.632	0.911
	LTE Band 66	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	132322	1745	1	20.35	21.70	1.365			-0.16	2.290	3.126
	LTE Band 66	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	132072	1720	1	20.31	21.70	1.377			0.15	2.280	3.140
	LTE Band 66	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	132572	1770	1	20.32	21.70	1.374			-0.02	1.430	1.965
	LTE Band 66	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSi6	132322	1745	1	20.32	21.70	1.374			0.15	1.450	1.992
	LTE Band 66	20M	QPSK	100	0	Top Side	0mm	Ant 1	DSi6	132072	1720	1	20.24	21.70	1.4			-0.02	1.470	2.058
	LTE Band 66	20M	QPSK	1	0	Top Side	7mm	Ant 1	DSi4	132322	1745	1	22.41	24.00	1.442			0.06	0.845	1.218
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	132322	1745	1	23.06	24.00	1.242			0.14	2.490	3.093
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	132072	1720	1	22.94	24.00	1.276			0.08	2.380	3.037
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	132572	1770	1	22.99	24.00	1.262			-0.04	2.420	3.054
	LTE Band 66	20M	QPSK	50	0	Front	0mm	Ant 2	DSi6	132322	1745	1	22.02	23.00	1.253			0.14	1.580	1.980
	LTE Band 66	20M	QPSK	100	0	Front	0mm	Ant 2	DSi6	132322	1745	1	21.73	23.00	1.34			0.00	1.560	2.090
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	132322	1745	1	23.06	24.00	1.242			-0.05	2.390	2.968
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	132072	1720	1	22.94	24.00	1.276			-0.06	2.400	3.062
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	132572	1770	1	22.99	24.00	1.262			-0.05	2.260	2.852
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 2	DSi6	132322	1745	1	22.02	23.00	1.253			0.18	1.490	1.867
	LTE Band 66	20M	QPSK	100	0	Back	0mm	Ant 2	DSi6	132322	1745	1	21.73	23.00	1.34			0.19	1.500	2.010
	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	132322	1745	1	23.06	24.00	1.242			0.04	2.040	2.534
	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	132072	1720	1	22.94	24.00	1.276			-0.02	2.210	2.820
	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	132572	1770	1	22.99	24.00	1.262			0.05	1.860	2.347
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSi6	132322	1745	1	22.02	23.00	1.253			0.09	1.280	1.604
	LTE Band 66	20M	QPSK	100	0	Bottom Side	0mm	Ant 2	DSi6	132322	1745	1	21.73	23.00	1.34			-0.13	1.270	1.702
	LTE Band 66	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	132322	1745	1	21.24	22.00	1.191			-0.14	2.360	2.811
	LTE Band 66	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	132072	1720	1	21.19	22.00	1.205			-0.14	2.310	2.784
	LTE Band 66	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	132572	1770	1	21.15	22.00	1.216			-0.04	2.370	2.882
	LTE Band 66	20M	QPSK	50	0	Right Side	0mm	Ant 6	DSi6	132322	1745	1	20.15	21.00	1.216			0.09	1.510	1.836
	LTE Band 66	20M	QPSK	100	0	Right Side	0mm	Ant 6	DSi6	132322	1745	1	20.03	21.00	1.25			0.04	1.490	1.863
	LTE Band 66	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	132572	1770	2	21.15	22.00	1.216			0.03	2.030	2.468
	LTE Band 66	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	132572	1770	Cover	21.15	22.00	1.216			0.05	2.250	2.736
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 1	DSi6	40620	2593	1	22.43	23.50	1.279	62.9	1.006	0.01	1.340	1.724
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 1	DSi6	39750	2506	1	22.37	23.50	1.297	62.9	1.006	-0.03	1.170	1.527
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 1	DSi6	40185	2549.5	1	22.34	23.50	1.306	62.9	1.006	0.12	1.300	1.708
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 1	DSi6	41055	2636.5	1	22.41	23.50	1.285	62.9	1.006	0.11	1.020	1.319
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 1	DSi6	41490	2680	1	22.36	23.50	1.3	62.9	1.006	0.14	0.937	1.226
	LTE Band 41	20M	QPSK	50	0	Front	0mm	Ant 1	DSi6	40620	2593	1	21.98	23.00	1.265	62.9	1.006	0.01	0.850	1.082
	LTE Band 41	20M	QPSK	1	0	Front	6mm	Ant 1	DSi4	40620	2593	1	22.90	24.00	1.288	62.9	1.006	0.06	0.399	0.517
93	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	40620	2593	1	22.43	23.50	1.279	62.9	1.006	0.01	2.470	3.178
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	39750	2506	1	22.37	23.50	1.297	62.9	1.006	-0.15	2.290	2.988
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	40185	2549.5	1	22.34	23.50	1.306	62.9	1.006	-0.07	2.370	3.114
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	41055	2636.5	1	22.41	23.50	1.285	62.9	1.006	0.10	2.260	2.922
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	41490	2680	1	22.36	23.50	1.3	62.9	1.006	0.15	2.100	2.746
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 1	DSi6	40620	2593	1	21.98	23.00	1.265	62.9	1.006	-0.16	1.570	1.998
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 1	DSi6	39750	2506	1	21.84	23.00	1.306	62.9	1.006	-0.18	1.560	2.050
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 1	DSi6	40185	2549.5	1	21.78	23.00	1.324	62.9	1.006	-0.14	1.540	2.051
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 1	DSi6	41055	2636.5	1	21.82							



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	LTE Band 41_HPUE	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	40620	2593	1	24.08	25.10	1.265	42.9	1.009	0.03	2.400	3.063
	LTE Band 41	20M	QPSK	1	0	Back	8mm	Ant 1	DSi4	40620	2593	1	22.90	24.00	1.288	62.9	1.006	0.06	0.471	0.610
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	40620	2593	1	22.43	23.50	1.279	62.9	1.006	-0.12	1.600	2.059
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	39750	2506	1	22.37	23.50	1.297	62.9	1.006	-0.02	1.850	2.414
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	40185	2549.5	1	22.34	23.50	1.306	62.9	1.006	0.09	1.700	2.234
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	41055	2636.5	1	22.41	23.50	1.285	62.9	1.006	-0.06	1.180	1.525
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSi6	41490	2680	1	22.36	23.50	1.3	62.9	1.006	0.06	1.390	1.818
	LTE Band 41	20M	QPSK	50	0	Left Side	0mm	Ant 1	DSi6	40620	2593	1	21.98	23.00	1.265	62.9	1.006	0.09	1.020	1.298
	LTE Band 41	20M	QPSK	100	0	Left Side	0mm	Ant 1	DSi6	40620	2593	1	21.79	23.00	1.321	62.9	1.006	0.14	1.010	1.342
	LTE Band 41	20M	QPSK	1	0	Left Side	10mm	Ant 1	DSi4	40620	2593	1	22.90	24.00	1.288	62.9	1.006	0.02	0.362	0.469
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	40620	2593	1	22.43	23.50	1.279	62.9	1.006	0.09	1.260	1.621
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	39750	2506	1	22.37	23.50	1.297	62.9	1.006	0.11	1.700	2.218
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	40185	2549.5	1	22.34	23.50	1.306	62.9	1.006	0.10	1.160	1.524
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	41055	2636.5	1	22.41	23.50	1.285	62.9	1.006	-0.16	1.340	1.732
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSi6	41490	2680	1	22.36	23.50	1.3	62.9	1.006	-0.19	1.740	2.276
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSi6	40620	2593	1	21.98	23.00	1.265	62.9	1.006	-0.01	0.799	1.017
	LTE Band 41	20M	QPSK	100	0	Top Side	0mm	Ant 1	DSi6	40620	2593	1	21.79	23.00	1.321	62.9	1.006	-0.01	0.792	1.052
	LTE Band 41	20M	QPSK	1	0	Top Side	7mm	Ant 1	DSi4	40620	2593	1	22.90	24.00	1.288	62.9	1.006	0.06	0.419	0.543
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSi6	40620+40422	2593+2573.2	1	22.35	23.50	1.303	62.9	1.006	0.02	2.220	2.910
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	8mm	Ant 1	DSi4	40620	2593	1	25.97	27.00	1.268	42.9	1.009	0.03	0.613	0.784
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 2	DSi6	40620	2593	1	22.26	23.60	1.361	62.9	1.006	-0.19	0.967	1.324
	LTE Band 41	20M	QPSK	50	0	Front	0mm	Ant 2	DSi6	40620	2593	1	21.25	23.00	1.496	62.9	1.006	0.01	0.589	0.887
	LTE Band 41	20M	QPSK	1	0	Front	9mm	Ant 2	DSi4	40620	2593	1	22.26	24.00	1.493	62.9	1.006	0.06	0.252	0.378
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	40620	2593	1	22.26	23.60	1.361	62.9	1.006	-0.17	1.290	1.766
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	39750	2506	1	22.18	23.60	1.387	62.9	1.006	0.08	1.170	1.633
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	40185	2549.5	1	22.25	23.60	1.365	62.9	1.006	-0.09	1.260	1.730
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	41055	2636.5	1	22.20	23.60	1.38	62.9	1.006	-0.05	1.250	1.735
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	DSi6	41490	2680	1	22.16	23.60	1.393	62.9	1.006	-0.05	1.290	1.808
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 2	DSi6	40620	2593	1	21.25	23.00	1.496	62.9	1.006	-0.13	0.799	1.203
	LTE Band 41	20M	QPSK	1	0	Back	12mm	Ant 2	DSi4	40620	2593	1	22.26	24.00	1.493	62.9	1.006	-0.05	0.184	0.276
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	40620	2593	1	22.26	23.60	1.361	62.9	1.006	0.05	1.890	2.588
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	39750	2506	1	22.18	23.60	1.387	62.9	1.006	-0.01	2.270	3.167
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	40185	2549.5	1	22.25	23.60	1.365	62.9	1.006	0.13	2.140	2.939
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	41055	2636.5	1	22.20	23.60	1.38	62.9	1.006	0.01	1.850	2.568
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	41490	2680	1	22.16	23.60	1.393	62.9	1.006	0.10	1.710	2.396
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSi6	40620	2593	1	21.25	23.00	1.496	62.9	1.006	0.07	1.100	1.655
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSi6	39750	2506	1	21.15	23.00	1.531	62.9	1.006	0.01	1.370	2.110
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSi6	40185	2549.5	1	21.21	23.00	1.51	62.9	1.006	0.04	1.290	1.960
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSi6	41055	2636.5	1	21.15	23.00	1.531	62.9	1.006	0.18	1.080	1.663
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSi6	41490	2680	1	21.13	23.00	1.538	62.9	1.006	0.01	0.999	1.546
	LTE Band 41	20M	QPSK	100	0	Bottom Side	0mm	Ant 2	DSi6	40620	2593	1	21.21	23.00	1.51	62.9	1.006	0.07	1.080	1.641
	LTE Band 41_HPUE	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	39750	2506	1	23.72	25.20	1.406	42.9	1.009	-0.03	2.160	3.064
	LTE Band 41	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSi4	40620	2593	1	22.26	24.00	1.493	62.9	1.006	0.01	0.359	0.539
	LTE Band 41_HPUE	20M	QPSK	1	0	Bottom Side	10mm	Ant 2	DSi4	40620	2593	1	25.28	27.00	1.486	42.9	1.009	0.02	0.483	0.724
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSi6	39750+39948	2506+2525.8	1	22.03	23.60	1.435	62.9	1.006	0.06	2.010	2.902
	LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	40620	2593	1	20.75	22.00	1.334	62.9	1.006	0.06	1.130	1.516
	LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	39750	2506	1	20.66	22.00	1.361	62.9	1.006	-0.17	1.140	1.561
	LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	40185	2549.5	1	20.69	22.00	1.352	62.9	1.006	0.09	1.190	1.619
	LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	41055	2636.5	1	20.70	22.00	1.349	62.9	1.006	0.15	1.090	1.479
	LTE Band 41	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	41490	2680	1	20.63	22.00	1.371	62.9	1.006	-0.08	1.050	1.448
	LTE Band 41	20M	QPSK	50	0	Right Side	0mm	Ant 6	DSi6	40620	2593	1	19.81	21.00	1.315	62.9	1.006	-0.10	0.638	0.844
	LTE Band 41_HPUE	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	40185	2549.5	1	23.69	25.00	1.352	42.9	1.009	0.02	1.560	2.128
	LTE Band 41_HPUE	20M	QPSK	1	0	Right Side	0mm	Ant 6	DSi6	40185+39987	2549.5+2529.7	1	23.69	25.00	1.352	42.9	1.009	0.02	1.520	2.074
	LTE Band 42	20M	QPSK	1	0	Front	0mm	Ant 7	DSi6	42590	3500	1	22.75	24.00	1.334	62.9	1.006	0.08	1.950	2.617
	LTE Band 42	20M	QPSK	1	0	Front	0mm	Ant 7	DSi6	42190	3460	1	22.68	24.00	1.355	62.9	1.006	-0.16	2.020	2.754
	LTE Band 42	20M	QPSK	1	0	Front	0mm	Ant 7	DSi6	42990	3540	1	22.71	24.00	1.346	62.9	1.006	-0.18	1.960	2.654
	LTE Band 42	20M	QPSK	50	0	Front	0mm	Ant 7	DSi6	42590	3500	1	21.77	23.00	1.327	62.9	1.006	0.18	1.230	1.642
	LTE Band 42	20M	QPSK	100	0	Front	0mm	Ant 7	DSi6	42590	3500	1	21.73	23.00	1.34	62.9	1.006	-0.14	1.080	1.456
	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	42590	3500	1	22.75	24.00	1.334	62.9	1.006	0.16	2.240	3.006
	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	42190	3460	1	22.68	24.00	1.355	62.9	1.006	0.06	2.260	3.081
94	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	42990	3540	1	22.71	24.00	1.346	62.9	1.006	0.03	2.310	3.128
	LTE Band 42	20M	QPSK	50	0	Back	0mm	Ant 7	DSi6	42590	3500	1	21.77	23.00	1.327	62.9	1.006	-0.13	1.530	2.042
	LTE Band 42	20M	QPSK	50	0	Back	0mm	Ant 7	DSi6	42190	3460	1	21.59	23.00	1.384	62.9	1.006	0.07	1.480	2.061
	LTE Band 42	20M	QPSK	50	0	Back	0mm	Ant 7	DSi6	42990	3540	1	21.69	23.00	1.352	62.9	1.006	0.02	1.500	2.040
	LTE Band 42	20M	QPSK	100	0	Back	0mm	Ant 7	DSi6	42590	3500	1	21.73	23.00	1.34	62.9	1.006	-0.12	1.450	1.955
	LTE Band 42	20M	QPSK	1	0	Left Side	0mm	Ant 7	DSi6	42590	3500	1	22.75	24.00	1.334	62.9	1.006	0.03	2.120	2.845
	LTE Band 42	20M	QPSK	1	0	Left Side	0mm	Ant 7	DSi6	42190	3460	1	22.68	24.00	1.355	62.9	1.006	0.05	2.110	2.876
	LTE Band 42	20M	QPSK	1	0	Left Side	0mm	Ant 7	DSi6	42990	3540	1	22.71	24.00	1.346	62.9	1.006	0.09	2.150	2.911



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	LTE Band 42	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	42190	3460	1	23.21	24.00	1.199	62.9	1.006	-0.02	2.390	2.883
	LTE Band 42	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	42990	3540	1	23.25	24.00	1.189	62.9	1.006	0.19	2.250	2.691
	LTE Band 42	20M	QPSK	50	0	Right Side	0mm	Ant 5	DSi6	42590	3500	1	22.30	23.00	1.175	62.9	1.006	-0.15	1.480	1.749
	LTE Band 42	20M	QPSK	100	0	Right Side	0mm	Ant 5	DSi6	42590	3500	1	22.25	23.00	1.189	62.9	1.006	0.13	1.450	1.734
	LTE Band 42	20M	QPSK	1	99	Right Side	0mm	Ant 5	DSi6	42190+42388	3460+3479.8	1	23.08	24.00	1.236	62.9	1.006	0.01	2.120	2.636
	LTE Band 42	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	42190	3460	2	23.21	24.00	1.199	62.9	1.006	0.06	1.950	2.352
	LTE Band 42	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	42190	3460	Cover	23.21	24.00	1.199	62.9	1.006	0.08	2.260	2.726
	LTE Band 48	20M	QPSK	1	0	Front	0mm	Ant 7	DSi6	55990	3625	1	22.42	23.30	1.225	62.9	1.006	0.02	1.900	2.341
	LTE Band 48	20M	QPSK	1	0	Front	0mm	Ant 7	DSi6	55340	3560	1	22.36	23.30	1.242	62.9	1.006	0.02	1.950	2.436
	LTE Band 48	20M	QPSK	1	0	Front	0mm	Ant 7	DSi6	55830	3609	1	22.38	23.30	1.236	62.9	1.006	0.10	1.940	2.412
	LTE Band 48	20M	QPSK	1	0	Front	0mm	Ant 7	DSi6	56150	3641	1	22.41	23.30	1.227	62.9	1.006	-0.09	1.920	2.370
	LTE Band 48	20M	QPSK	1	0	Front	0mm	Ant 7	DSi6	56640	3690	1	22.39	23.30	1.233	62.9	1.006	0.13	1.830	2.270
	LTE Band 48	20M	QPSK	50	0	Front	0mm	Ant 7	DSi6	55990	3625	1	22.10	23.00	1.23	62.9	1.006	0.08	1.260	1.559
	LTE Band 48	20M	QPSK	50	0	Front	0mm	Ant 7	DSi6	55340	3560	1	21.92	23.00	1.282	62.9	1.006	0.14	1.300	1.677
	LTE Band 48	20M	QPSK	50	0	Front	0mm	Ant 7	DSi6	55830	3609	1	21.91	23.00	1.285	62.9	1.006	-0.09	1.290	1.668
	LTE Band 48	20M	QPSK	50	0	Front	0mm	Ant 7	DSi6	56150	3641	1	21.88	23.00	1.294	62.9	1.006	0.17	1.280	1.666
	LTE Band 48	20M	QPSK	50	0	Front	0mm	Ant 7	DSi6	56640	3690	1	22.02	23.00	1.253	62.9	1.006	-0.18	1.220	1.538
	LTE Band 48	20M	QPSK	100	0	Front	0mm	Ant 7	DSi6	55990	3625	1	22.01	23.00	1.256	62.9	1.006	-0.05	1.050	1.327
	LTE Band 48	20M	QPSK	1	0	Front	6mm	Ant 7	DSi4	55990	3625	1	23.09	24.00	1.233	62.9	1.006	0.03	0.642	0.796
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	55990	3625	1	22.42	23.30	1.225	62.9	1.006	-0.16	2.540	3.130
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	55340	3560	1	22.36	23.30	1.242	62.9	1.006	0.12	2.470	3.086
95	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	55830	3609	1	22.38	23.30	1.236	62.9	1.006	-0.01	2.560	3.183
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	56150	3641	1	22.41	23.30	1.227	62.9	1.006	0.12	2.540	3.135
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	56640	3690	1	22.39	23.30	1.233	62.9	1.006	0.09	2.550	3.163
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 7	DSi6	55990	3625	1	22.10	23.00	1.23	62.9	1.006	0.18	1.590	1.967
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 7	DSi6	55340	3560	1	21.92	23.00	1.282	62.9	1.006	0.17	1.590	2.051
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 7	DSi6	55830	3609	1	21.91	23.00	1.285	62.9	1.006	-0.07	1.640	2.120
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 7	DSi6	56150	3641	1	21.88	23.00	1.294	62.9	1.006	-0.01	1.640	2.135
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 7	DSi6	56640	3690	1	22.02	23.00	1.253	62.9	1.006	0.11	1.640	2.067
	LTE Band 48	20M	QPSK	100	0	Back	0mm	Ant 7	DSi6	55990	3625	1	22.01	23.00	1.256	62.9	1.006	0.11	1.540	1.946
	LTE Band 48	20M	QPSK	1	0	Back	8mm	Ant 7	DSi4	55990	3625	1	23.09	24.00	1.233	62.9	1.006	-0.01	0.552	0.685
	LTE Band 48	20M	QPSK	1	0	Left Side	0mm	Ant 7	DSi6	55990	3625	1	22.42	23.30	1.225	62.9	1.006	0.02	2.410	2.970
	LTE Band 48	20M	QPSK	1	0	Left Side	0mm	Ant 7	DSi6	55340	3560	1	22.36	23.30	1.242	62.9	1.006	0.04	2.270	2.836
	LTE Band 48	20M	QPSK	1	0	Left Side	0mm	Ant 7	DSi6	55830	3609	1	22.38	23.30	1.236	62.9	1.006	-0.18	2.290	2.847
	LTE Band 48	20M	QPSK	1	0	Left Side	0mm	Ant 7	DSi6	56150	3641	1	22.41	23.30	1.227	62.9	1.006	-0.06	2.310	2.851
	LTE Band 48	20M	QPSK	1	0	Left Side	0mm	Ant 7	DSi6	56640	3690	1	22.39	23.30	1.233	62.9	1.006	0.02	2.280	2.828
	LTE Band 48	20M	QPSK	50	0	Left Side	0mm	Ant 7	DSi6	55990	3625	1	22.10	23.00	1.23	62.9	1.006	-0.02	1.470	1.819
	LTE Band 48	20M	QPSK	50	0	Left Side	0mm	Ant 7	DSi6	55340	3560	1	21.92	23.00	1.282	62.9	1.006	-0.00	1.500	1.935
	LTE Band 48	20M	QPSK	50	0	Left Side	0mm	Ant 7	DSi6	55830	3609	1	21.91	23.00	1.285	62.9	1.006	-0.10	1.500	1.939
	LTE Band 48	20M	QPSK	50	0	Left Side	0mm	Ant 7	DSi6	56150	3641	1	21.88	23.00	1.294	62.9	1.006	0.09	1.500	1.953
	LTE Band 48	20M	QPSK	50	0	Left Side	0mm	Ant 7	DSi6	56640	3690	1	22.02	23.00	1.253	62.9	1.006	-0.19	1.490	1.878
	LTE Band 48	20M	QPSK	100	0	Left Side	0mm	Ant 7	DSi6	55990	3625	1	22.01	23.00	1.256	62.9	1.006	-0.09	1.430	1.807
	LTE Band 48	20M	QPSK	1	0	Left Side	10mm	Ant 7	DSi4	55990	3625	1	23.09	24.00	1.233	62.9	1.006	0.02	0.432	0.536
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	55830+55632	3609+3589.2	1	22.25	23.30	1.274	62.9	1.006	0.09	2.240	2.871
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	55830	3609	2	22.38	23.30	1.236	62.9	1.006	0.03	2.080	2.586
	LTE Band 48	20M	QPSK	1	0	Back	0mm	Ant 7	DSi6	55830	3609	Cover	22.38	23.30	1.236	62.9	1.006	0.09	2.390	2.972
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	55990	3625	1	23.09	24.00	1.233	62.9	1.006	0.03	2.500	3.101
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	55340	3560	1	23.01	24.00	1.256	62.9	1.006	0.16	2.450	3.096
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	55830	3609	1	23.04	24.00	1.247	62.9	1.006	0.05	2.380	2.986
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	56150	3641	1	23.02	24.00	1.253	62.9	1.006	0.17	2.350	2.962
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	56640	3690	1	23.06	24.00	1.242	62.9	1.006	-0.15	2.390	2.986
	LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 5	DSi6	55990	3625	1	22.13	23.00	1.222	62.9	1.006	-0.15	1.620	1.992
	LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 5	DSi6	55340	3560	1	22.01	23.00	1.256	62.9	1.006	0.00	1.630	2.060
	LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 5	DSi6	55830	3609	1	22.06	23.00	1.242	62.9	1.006	-0.07	1.670	2.087
	LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 5	DSi6	56150	3641	1	22.02	23.00	1.253	62.9	1.006	-0.06	1.600	2.017
	LTE Band 48	20M	QPSK	50	0	Right Side	0mm	Ant 5	DSi6	56640	3690	1	22.07	23.00	1.239	62.9	1.006	0.18	1.540	1.920
	LTE Band 48	20M	QPSK	100	0	Right Side	0mm	Ant 5	DSi6	55990	3625	1	22.05	23.00	1.245	62.9	1.006	0.17	1.600	2.004
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	56150+55952	3641+3621.2	1	22.94	24.00	1.276	62.9	1.006	0.01	2.250	2.888
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	55990	3625	2	23.09	24.00	1.233	62.9	1.006	0.06	2.080	2.580
	LTE Band 48	20M	QPSK	1	0	Right Side	0mm	Ant 5	DSi6	55990	3625	Cover	23.09	24.00	1.233	62.9	1.006	-0.01	2.350	2.915



【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	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)
	FR1 n7	50M	BPSK	1	1	Front	0mm	Ant 1	DSI6	507000	2535	1	20.85	21.60	1.189			0.08	1.110	1.320
	FR1 n7	50M	BPSK	135	68	Front	0mm	Ant 1	DSI6	507000	2535	1	20.83	21.60	1.194			-0.19	1.300	1.552
	FR1 n7	50M	BPSK	1	1	Front	6mm	Ant 1	DSI4	507000	2535	1	22.30	24.00	1.479			0.01	0.357	0.528
	FR1 n7	50M	BPSK	1	1	Back	0mm	Ant 1	DSI6	507000	2535	1	20.85	21.60	1.189			0.08	2.330	2.770
96	FR1 n7	50M	BPSK	135	68	Back	0mm	Ant 1	DSI6	507000	2535	1	20.83	21.60	1.194			0.03	2.660	3.176
	FR1 n7	50M	BPSK	270	0	Back	0mm	Ant 1	DSI6	507000	2535	1	20.81	21.60	1.199			-0.18	2.380	2.854
	FR1 n7	50M	BPSK	1	1	Back	8mm	Ant 1	DSI4	507000	2535	1	22.30	24.00	1.479			0.06	0.461	0.682
	FR1 n7	50M	BPSK	1	1	Left Side	0mm	Ant 1	DSI6	507000	2535	1	20.85	21.60	1.189			-0.04	1.680	1.998
	FR1 n7	50M	BPSK	135	68	Left Side	0mm	Ant 1	DSI6	507000	2535	1	20.83	21.60	1.194			0.01	1.720	2.054
	FR1 n7	50M	BPSK	270	0	Left Side	0mm	Ant 1	DSI6	507000	2535	1	20.81	21.60	1.199			-0.11	1.510	1.810
	FR1 n7	50M	BPSK	1	1	Left Side	10mm	Ant 1	DSI4	507000	2535	1	22.30	24.00	1.479			0.05	0.335	0.495
	FR1 n7	50M	BPSK	1	1	Top Side	0mm	Ant 1	DSI6	507000	2535	1	20.85	21.60	1.189			-0.16	1.180	1.403
	FR1 n7	50M	BPSK	135	68	Top Side	0mm	Ant 1	DSI6	507000	2535	1	20.83	21.60	1.194			-0.12	1.190	1.421
	FR1 n7	50M	BPSK	1	1	Top Side	7mm	Ant 1	DSI4	507000	2535	1	22.30	24.00	1.479			0.05	0.452	0.669
	FR1 n7	50M	BPSK	1	1	Front	0mm	Ant 2	DSI6	507000	2535	1	20.69	21.60	1.233			0.00	1.270	1.566
	FR1 n7	50M	BPSK	135	68	Front	0mm	Ant 2	DSI6	507000	2535	1	20.65	21.60	1.245			-0.18	1.150	1.432
	FR1 n7	50M	BPSK	1	1	Front	9mm	Ant 2	DSI4	507000	2535	1	22.17	24.00	1.524			0.04	0.226	0.344
	FR1 n7	50M	BPSK	1	1	Back	0mm	Ant 2	DSI6	507000	2535	1	20.69	21.60	1.233			0.08	1.610	1.985
	FR1 n7	50M	BPSK	135	68	Back	0mm	Ant 2	DSI6	507000	2535	1	20.65	21.60	1.245			0.00	1.640	2.042
	FR1 n7	50M	BPSK	270	0	Back	0mm	Ant 2	DSI6	507000	2535	1	20.64	21.60	1.247			-0.09	1.540	1.920
	FR1 n7	50M	BPSK	1	1	Back	12mm	Ant 2	DSI4	507000	2535	1	22.17	24.00	1.524			-0.03	0.150	0.229
	FR1 n7	50M	BPSK	1	1	Bottom Side	0mm	Ant 2	DSI6	507000	2535	1	20.69	21.60	1.233			-0.04	2.570	3.169
	FR1 n7	50M	BPSK	135	68	Bottom Side	0mm	Ant 2	DSI6	507000	2535	1	20.65	21.60	1.245			0.15	2.400	2.988
	FR1 n7	50M	BPSK	270	0	Bottom Side	0mm	Ant 2	DSI6	507000	2535	1	20.64	21.60	1.247			-0.17	2.150	2.681
	FR1 n7	50M	BPSK	1	1	Bottom Side	10mm	Ant 2	DSI4	507000	2535	1	22.17	24.00	1.524			0.05	0.451	0.687
	FR1 n25	40M	BPSK	1	1	Front	0mm	Ant 1	DSI6	376500	1882.5	1	20.96	21.80	1.213			0.08	1.840	2.232
	FR1 n25	40M	BPSK	108	54	Front	0mm	Ant 1	DSI6	376500	1882.5	1	20.92	21.80	1.225			-0.04	1.980	2.425
	FR1 n25	40M	BPSK	216	0	Front	0mm	Ant 1	DSI6	376500	1882.5	1	20.89	21.80	1.233			-0.11	1.820	2.244
	FR1 n25	40M	BPSK	1	1	Front	6mm	Ant 1	DSI4	376500	1882.5	1	22.41	24.00	1.442			0.02	0.689	0.994
	FR1 n25	40M	BPSK	1	1	Back	0mm	Ant 1	DSI6	376500	1882.5	1	20.96	21.80	1.213			0.05	2.590	3.142
	FR1 n25	40M	BPSK	108	54	Back	0mm	Ant 1	DSI6	376500	1882.5	1	20.92	21.80	1.225			-0.14	2.500	3.062
	FR1 n25	40M	BPSK	216	0	Back	0mm	Ant 1	DSI6	376500	1882.5	1	20.89	21.80	1.233			-0.04	2.400	2.959
	FR1 n25	40M	BPSK	1	1	Back	8mm	Ant 1	DSI4	376500	1882.5	1	22.41	24.00	1.442			0.03	0.777	1.120
	FR1 n25	40M	BPSK	1	1	Left Side	0mm	Ant 1	DSI6	376500	1882.5	1	20.96	21.80	1.213			-0.01	1.840	2.232
	FR1 n25	40M	BPSK	108	54	Left Side	0mm	Ant 1	DSI6	376500	1882.5	1	20.92	21.80	1.225			-0.15	1.800	2.205
	FR1 n25	40M	BPSK	216	0	Left Side	0mm	Ant 1	DSI6	376500	1882.5	1	20.89	21.80	1.233			0.13	1.590	1.960
	FR1 n25	40M	BPSK	1	1	Left Side	10mm	Ant 1	DSI4	376500	1882.5	1	22.41	24.00	1.442			0.05	0.427	0.616
	FR1 n25	40M	BPSK	1	1	Top Side	0mm	Ant 1	DSI6	376500	1882.5	1	20.96	21.80	1.213			-0.12	1.800	2.183
	FR1 n25	40M	BPSK	108	54	Top Side	0mm	Ant 1	DSI6	376500	1882.5	1	20.92	21.80	1.225			0.06	1.730	2.119
	FR1 n25	40M	BPSK	216	0	Top Side	0mm	Ant 1	DSI6	376500	1882.5	1	20.89	21.80	1.233			-0.08	1.570	1.936
	FR1 n25	40M	BPSK	1	1	Top Side	7mm	Ant 1	DSI4	376500	1882.5	1	22.41	24.00	1.442			-0.07	0.791	1.141
	FR1 n25	40M	BPSK	1	1	Front	0mm	Ant 2	DSI6	376500	1882.5	1	22.48	24.00	1.419			-0.03	2.170	3.079
	FR1 n25	40M	BPSK	108	54	Front	0mm	Ant 2	DSI6	376500	1882.5	1	22.32	24.00	1.472			0.05	2.100	3.091
	FR1 n25	40M	BPSK	216	0	Front	0mm	Ant 2	DSI6	376500	1882.5	1	21.80	23.50	1.479			-0.08	1.990	2.943
97	FR1 n25	40M	BPSK	1	1	Back	0mm	Ant 2	DSI6	376500	1882.5	1	22.48	24.00	1.419			-0.07	2.240	3.179
	FR1 n25	40M	BPSK	108	54	Back	0mm	Ant 2	DSI6	376500	1882.5	1	22.32	24.00	1.472			0.13	2.110	3.106
	FR1 n25	40M	BPSK	216	0	Back	0mm	Ant 2	DSI6	376500	1882.5	1	21.80	23.50	1.479			0.01	1.960	2.899
	FR1 n25	40M	BPSK	1	1	Bottom Side	0mm	Ant 2	DSI6	376500	1882.5	1	22.48	24.00	1.419			0.07	1.940	2.753
	FR1 n25	40M	BPSK	108	54	Bottom Side	0mm	Ant 2	DSI6	376500	1882.5	1	22.32	24.00	1.472			0.17	1.990	2.929
	FR1 n25	40M	BPSK	216	0	Bottom Side	0mm	Ant 2	DSI6	376500	1882.5	1	21.80	23.50	1.479			-0.14	1.810	2.677
	FR1 n66	40M	BPSK	1	1	Front	0mm	Ant 1	DSI6	349000	1745		19.95	20.90	1.245			0.14	1.890	2.353
	FR1 n66	40M	BPSK	108	54	Front	0mm	Ant 1	DSI6	349000	1745		19.90	20.90	1.259			0.09	1.660	2.090
	FR1 n66	40M	BPSK	216	0	Front	0mm	Ant 1	DSI6	349000	1745		19.87	20.90	1.268			-0.12	1.470	1.864
	FR1 n66	40M	BPSK	1	1	Front	6mm	Ant 1	DSI4	349000	1745		22.43	24.00	1.435			0.05	0.871	1.250
98	FR1 n66	40M	BPSK	1	1	Back	0mm	Ant 1	DSI6	349000	1745		19.95	20.90	1.245			-0.02	2.560	3.187
	FR1 n66	40M	BPSK	108	54	Back	0mm	Ant 1	DSI6	349000	1745		19.90	20.90	1.259			0.15	2.330	2.933
	FR1 n66	40M	BPSK	216	0	Back	0mm	Ant 1	DSI6	349000	1745		19.87	20.90	1.268			-0.14	2.130	2.701
	FR1 n66	40M	BPSK	1	1	Back	8mm	Ant 1	DSI4	349000	1745		22.43	24.00	1.435			-0.01	1.130	1.622
	FR1 n66	40M	BPSK	1	1	Left Side	0mm	Ant 1	DSI6	349000	1745		19.95	20.90	1.245			-0.13	1.640	2.042
	FR1 n66	40M	BPSK	108	54	Left Side	0mm	Ant 1	DSI6	349000	1745		19.90	20.90	1.259			0.01	1.390	1.750
	FR1 n66	40M	BPSK	216	0	Left Side	0mm	Ant 1	DSI6	349000	1745		19.87	20.90	1.268			-0.02	1.280	1.623
	FR1 n66	40M	BPSK	1	1	Left Side	10mm	Ant 1	DSI4	349000	1745		22.43	24.00	1.435			0.03	0.604	0.867
	FR1 n66	40M	BPSK	1	1	Top Side	0mm	Ant 1	DSI6	349000	1745		19.95	20.90	1.245			0.01	2.230	2.776
	FR1 n66	40M	BPSK	108	54	Top Side	0mm	Ant 1	DSI6	349000	1745		19.90	20.90	1.259			-0.01	2.170	2.732
	FR1 n66	40M	BPSK	216	0	Top Side	0mm	Ant 1	DSI6	349000	1745		19.87	20.90	1.268			-0.07	1.910	2.422
	FR1 n66	40M	BPSK	1	1	Top Side	7mm	Ant 1	DSI4	349000	1745		22.43	24.00	1.435			0.06	0.817	1.172
	FR1 n66	40M	BPSK	1	1	Front	0mm	Ant 2	DSI6	349000	1745		22.95	24.00	1.274			0.09	2.140	2.726