

FCC SAR Test Report

APPLICANT : Datalogic S.r.l.
EQUIPMENT : MOBILE COMPUTER/BARCODE READER
BRAND NAME : DATALOGIC
MODEL NAME : AELNRNA
FCC ID : U4G-AELNRNA
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**

Table of Contents

1. Statement of Compliance	4
2. Administration Data	5
3. Guidance Applied	5
4. Equipment Under Test (EUT) Information	6
4.1 General Information.....	6
4.2 General LTE SAR Test and Reporting Considerations	9
4.3 General 5G NR SAR Test and Reporting Considerations	13
5. Proximity Sensor Triggering Test.....	17
6. RF Exposure Limits.....	19
6.1 Uncontrolled Environment.....	19
6.2 Controlled Environment.....	19
7. Specific Absorption Rate (SAR).....	20
7.1 Introduction	20
7.2 SAR Definition	20
8. System Description and Setup.....	21
8.1 E-Field Probe	22
8.2 Data Acquisition Electronics (DAE)	22
8.3 Phantom.....	23
8.4 Device Holder.....	24
9. Measurement Procedures.....	25
9.1 Spatial Peak SAR Evaluation	25
9.2 Power Reference Measurement.....	26
9.3 Area Scan.....	26
9.4 Zoom Scan.....	27
9.5 Volume Scan Procedures.....	27
9.6 Power Drift Monitoring.....	27
10. Test Equipment List	28
11. System Verification	29
11.1 Tissue Simulating Liquids	29
11.2 Tissue Verification.....	29
11.3 System Performance Check Results	31
12. RF Exposure Positions	33
12.1 Ear and handset reference point	33
12.2 Definition of the cheek position	34
12.3 Definition of the tilt position	35
12.4 Body Worn Accessory	36
12.5 Product Specific 10g SAR Exposure.....	37
12.6 Wireless Router.....	37
13. Conducted RF Output Power (Unit: dBm).....	38
14. Antenna Location	49
15. SAR Test Results	50
15.1 Head SAR	53
15.2 Hotspot SAR	65
15.3 Body Worn Accessory SAR.....	79
15.4 Product specific 10g SAR.....	86
15.5 Repeated SAR Measurement	87
15.6 TDD NR Linearity Data Analysis.....	88
16. Simultaneous Transmission Analysis	92
16.1 Head Exposure Conditions.....	93
16.2 Hotspot Exposure Conditions.....	96
16.3 Body-Worn Accessory Exposure Conditions	101
16.4 Product specific 10g SAR Exposure Conditions.....	103
16.5 SPLSR Evaluation and Analysis.....	104
17. Uncertainty Assessment.....	118
18. References	119
Appendixes	120
Appendix A. Plots of System Performance Check.....	120
Appendix B. Plots of High SAR Measurement	120
Appendix C. DASY Calibration Certificate.....	120
Appendix D. Test Setup Photos.....	120
Appendix E. Conducted RF Output Power Table	120
Appendix F. Power reduction mechanism verification	120

Form version. : 200414

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Datalogic S.r.l., MOBILE COMPUTER/BARCODE READER, AELNRNA**, are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 10mm)	Highest Simultaneous Transmission
			1g SAR (W/kg)			1g SAR (W/kg)
Licensed	WCDMA	WCDMA II	0.96	0.75	0.75	1.59
		WCDMA IV	0.57	0.90	0.90	
		WCDMA V	0.95	0.48	0.48	
	LTE	LTE Band 7	1.11	1.19	1.19	
		LTE Band 12/17	0.75	0.34	0.34	
		LTE Band 13	0.83	0.34	0.34	
		LTE Band 25/2	1.06	0.67	0.67	
		LTE Band 26/5	0.95	0.46	0.46	
		LTE Band 30	1.20	1.12	1.12	
		LTE Band 66/4	1.11	1.02	1.02	
		LTE Band 71	0.64	0.18	0.18	
		LTE Band 41/38	1.23	1.01	1.01	
		LTE Band 42	0.66	0.55	0.55	
		5G NR	FR1 n7	1.06	1.01	
	FR1 n12		0.59	0.27	0.26	
	FR1 n13		0.57	0.25	0.25	
	FR1 n25/n2		1.13	0.61	0.55	
	FR1 n26/n5		0.53	0.40	0.40	
	FR1 n30		0.93	1.16	1.16	
	FR1 n66		1.22	0.77	0.77	
	FR1 n71		0.55	0.29	0.22	
	FR1 n41/n38		1.18	1.06	1.06	
	FR1 n77/n78	1.22	0.86	0.75		
DTS	WLAN	2.4GHz WLAN	0.99	0.37	0.53	1.59
NII		5GHz WLAN	1.12		1.16	1.59
DSS	Bluetooth	2.4GHz Bluetooth	<0.10	<0.10	<0.10	1.59
Highest 10g SAR Summary						
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)			Highest Simultaneous Transmission 10g SAR (W/kg)
NII	WLAN	5GHz WLAN	1.88			1.88
Date of Testing:			2025/1/1 ~ 2025/2/25			
Remark:						
1. This device supports LTE B2 / B4 / B5 / B17 / B38 and B25 / B66 / B26 / B12 / B41. Since the supported frequency span for LTE B4 / B5 / B17 / B38 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12 / B41, 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.						
2. This device supports 5GNR n38/n5/n2/n78 and n41/n26/n25/n77. Since the supported frequency span for 5GNR n38/n5/n2/n78 falls completely within the supports frequency span for n41/n26/n25/n77, 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/n25/n77.						
Declaration of Conformity:						
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.						
Comments and Explanations:						

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

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

2. Administration Data

Sporton International Inc. (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 SAR05-KS	CN1257	314309

Applicant	
Company Name	Datalogic S.r.l.
Address	Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy

Manufacturer	
Company Name	Datalogic S.r.l.
Address	Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy

3. Guidance Applied

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

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	MOBILE COMPUTER/BARCODE READER
Brand Name	DATALOGIC
Model Name	AELNRNA
FCC ID	U4G-AELNRNA
IMEI Code	IMEI 1: 356616170017381 IMEI 2: 356616170017399
Wireless Technology and Frequency Range	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 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz 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 ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz WLAN 6GHz U-NII 5: 5925 MHz ~ 6425 MHz WLAN 6GHz U-NII 6: 6425 MHz ~ 6525 MHz WLAN 6GHz U-NII 7: 6525 MHz ~ 6875 MHz WLAN 6GHz U-NII 8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Mode	RMC/AMR 12.2Kbps HSDPA/HSUPA HSPA+: 16QAM (16QAM uplink is not 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 802.11ac VHT20/VHT40

	WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC: ASK
HW Version	V3
SW Version	1.18.001.20241225
EUT Stage	Identical Prototype
Remark: 1. This device supports VoIP in WCDMA, LTE and 5G NR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. 2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications. 3. This device 5GHz WLAN does not support hotspot operation. 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. The device implements Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). Details about the power management decision and sensor detection are provided in the operational description. 6. For WLAN when transmit simultaneous with WWAN/BT, power reduction will be activated to head, body-worn and extremity exposure condition. For WLAN when Proximity sensors trigger, power reduction will be activated. 7. This device supports HPUE mode for 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 we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR. 8. 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, using FTM to perform SAR with default 100% transmission. 9. 5G NR n77/n78 supports UL MIMO mode. 10. For 5G NR EN-DC mode, standalone SAR performed for 5G NR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively. 11. This device has NFC function and the NFC SAR report will be separately submitted. 12. SAR and Power density test report for WLAN 6GHz U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth always chose higher SAR of WLAN5GHz U-NII-1/2A/2C/3 and WLAN 6GHz U-NII-5/6/7/8. 13. There are two samples, the difference between them is memory capacity. According to the difference, sample 1 was chosen to perform full SAR testing. For sample 2, the differences do not affect the test, so sample 2 are not tested. 14. This device supports 5G NR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.	

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n30	FDD	15	10
	n66	FDD	15	5, 10, 15, 20
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
SA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20
	n12	FDD	15	5, 10, 15
	n13	FDD	15	5, 10
	n25	FDD	15	5, 10, 15, 20
	n26	FDD	15	5, 10, 15, 20
	n30	FDD	15	10
	n66	FDD	15	5, 10, 15, 20
	n71	FDD	15	5, 10, 15, 20
	n38	TDD	30	20, 30, 40
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																									
FCC ID	U4G-AELNRNA																																																																								
Equipment Name	MOBILE COMPUTER/BARCODE READER																																																																								
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 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 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 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 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	R16																																																																								
CA Support	Supported, Downlink Only																																																																								
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 13.																																																																								
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 13.																																																																								
LTE Carrier Aggregation Additional Information	This device supports maximum of 3 carriers in the downlink.																																																																								

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

LTE Band 30									
	Bandwidth 5 MHz				Bandwidth 10 MHz				
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		
L	27685		2307.5		27710		2310		
M	27710		2310						
H	27735		2312.5						

LTE Band 38								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580
M	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610

LTE Band 41								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5
M	40620	2593	40620	2593	40620	2593	40620	2593
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680

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

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)	Ch. #
L	42115	3452.5	42140	3455	42165	3457.5	42190	3460	42215
M	42590	3500	42590	3500	42590	3500	42590	3500	42590
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540	42965

LTE Band 71									
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #
L	133147	665.5	133172	668	133197	670.5	133222	673	133247
M	133247	675.5	133272	678	133297	680.5	133322	683	133347
H	133447	695.5	133422	693	133397	690.5	133372	688	133347

<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

2) LTE Bands tune up:

Band	Antenna	Head	Head Simultaneous	Body-worn	Hotspot	Extremity	Sensor off	Default
		Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up
		Limit	Limit	Limit	Limit	Limit	Limit	Limit
LTE Band 2	Ant 0	24	24	24	24	24	24	24
LTE Band 25	Ant 0	24	24	24	24	24	24	24
LTE Band 4	Ant 0	24	24	24	24	24	24	24
LTE Band 66	Ant 0	24	24	24	24	24	24	24
LTE Band 38	Ant 0	24	24	24	24	24	24	24
LTE Band 41	Ant 0	24	24	24	24	24	24	24

Band	Antenna	Head	Head Simultaneous	Body-worn	Hotspot	Extremity	Sensor off	Default
		Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up
		Limit	Limit	Limit	Limit	Limit	Limit	Limit
LTE Band 2	Ant 1	21	19.5	24	24	24	24	24
LTE Band 25	Ant 1	21	19.5	24	24	24	24	24
LTE Band 4	Ant 1	22	20	24	24	24	24	24
LTE Band 66	Ant 1	22	20	24	24	24	24	24
LTE Band 5	Ant 1	24.5	23.5	24.5	24.5	24.5	24.5	24.5
LTE Band 26	Ant 1	24.5	23.5	24.5	24.5	24.5	24.5	24.5
LTE Band 12	Ant 1	25.5	25.5	25.5	25.5	25.5	25.5	25.5
LTE Band 17	Ant 1	25.5	25.5	25.5	25.5	25.5	25.5	25.5
LTE Band 38	Ant 1	22	20	23	23	23	25	25
LTE Band 41	Ant 1	22	20	23	23	23	25	25

Band	Antenna	Head	Head Simultaneous	Body-worn	Hotspot	Extremity	Sensor off	Default
		Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up
		Limit	Limit	Limit	Limit	Limit	Limit	Limit
LTE Band 2	Ant 2	25	25	25	25	25	25	25
LTE Band 25	Ant 2	25	25	25	25	25	25	25
LTE Band 4	Ant 2	25	25	25	25	25	25	25
LTE Band 66	Ant 2	25	25	25	25	25	25	25
LTE Band 38	Ant 2	25	25	24	24	24	25	25
LTE Band 41	Ant 2	25	25	24	24	24	25	25

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 n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77 : 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78 : 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz
Channel Bandwidth	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 MP) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B5/12/13
LTE Anchor Bands for n5	LTE B2/30/66
LTE Anchor Bands for n30	LTE B5/12
LTE Anchor Bands for n66	LTE B5/12/13
LTE Anchor Bands for n41	LTE B12/26
LTE Anchor Bands for n77	LTE B2/5/12/13/66/30
LTE Anchor Bands for n78	LTE B5/7/41

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band								
NR Band 2								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900
NR Band 5								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165300	826.5	165800	829	166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839
NR Band 7								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510
M	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560
NR Band 12								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 15MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	140300	701.5	140800	704	141300	706.5	141300	706.5
M	141500	707.5	141500	707.5	141500	707.5	141500	707.5
H	142700	713.5	142200	711	141700	708.5	141700	708.5

NR Band 13				
	Bandwidth 5MHz		Bandwidth 10MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	155900	779.5	156400	782
M	156400	782		
H	156900	784.5		

NR Band 25								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905

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

NR Band 30				
	Bandwidth 10MHz			
	Ch. #		Freq. (MHz)	
L	462000		2310	
M				
H				

NR Band 66								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720
M	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770

NR Band 71								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133100	665.5	133600	668	134100	670.5	134600	673
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5
H	139100	695.5	138600	693	138100	690.5	137600	688

NR Band 38						
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	516000	2580	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595
H	522000	2610	520998	2604.99	519996	2599.98

NR Band 41																		
	Bandwidth 20MHz		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)
L	501204	2506.02	502200	2511	503202	2516.01	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
H	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

NR Band 77 SCS30KHz																		
Bandwidth 20MHz		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)	
L	647334	3710.01	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	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	664668	3970.02	664334	3965.01	664000	3960	663668	3955.02	663334	3950.01	663000	3945	662668	3940.02	662334	3935.01	662000	3930

NR Band 78 SCS30KHz																	
Bandwidth 20MHz		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)
L 647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M 650000	3750	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H 652668	3790.02	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	651000	3765	650668	3760.02	650334	3755.01		

NR Band 77 SCS30KHz																	
Bandwidth 20MHz		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)
L 630668	3460.02	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M 633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H 636000	3540	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

NR Band 78 SCS30KHz																		
	Bandwidth 20MHz		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)
L	630668	3460.02	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636000	3540	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

<For NR Overlap Bands Description>

1) NR Bands BW

Band	Duplex	SCS(KHz)	Bandwidths(BW)
n2	FDD	15	5, 10, 15, 20
n5	FDD	15	5, 10, 15, 20
n25	FDD	15	5, 10, 15, 20
n26	FDD	15	5, 10, 15, 20
n38	TDD	30	20, 30, 40
n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
n77	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100

2) NR Bands Tune up:

Band	Antenna	Head	Head Simultaneous	Body-worn	Hotspot	Extremity	Sensor off	Default
		Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up
		Limit	Limit	Limit	Limit	Limit	Limit	Limit
5G NR n2	Ant 0	24	24	24	24	24	24	24
5G NR n25	Ant 0	24	24	24	24	24	24	24
5G NR n38	Ant 0	24	24	22.5	22.5	22.5	24	24
5G NR n41	Ant 0	24	24	22.5	22.5	22.5	24	24
5G NR n41 HPUE	Ant 0	27	27	25.5	25.5	25.5	27	27



Band	Antenna	Head	Head Simultaneous	Body-worn	Hotspot	Extremity	Sensor off	Default
		Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up
		Limit	Limit	Limit	Limit	Limit	Limit	Limit
5G NR n2	Ant 1	22	20	24	24	24	24	24
5G NR n25	Ant 1	22	20	24	24	24	24	24
5G NR n5	Ant 1	24.5	24.5	24.5	24.5	24.5	24.5	24.5
5G NR n26	Ant 1	24.5	24.5	24.5	24.5	24.5	24.5	24.5
5G NR n38	Ant 1	20.5	18.5	24	24	24	24	24
5G NR n41	Ant 1	20.5	18.5	24	24	24	24	24
5G NR n41 HPUE	Ant 1	23.5	21.5	27	27	27	27	27

Band	Antenna	Head	Head Simultaneous	Body-worn	Body-worn Simultaneous	Hotspot	Hotspot Simultaneous	Extremity	Extremity Simultaneous	Sensor off	Default
		Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up
		Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit
5G NR n2	Ant 2	24	21.5	24	24	24	24	24	24	24	24
5G NR n25	Ant 2	24	21.5	24	24	24	24	24	24	24	24
5G NR n38	Ant 2	25	25	25	25	25	25	25	25	25	25
5G NR n41	Ant 2	25	25	25	25	25	25	25	25	25	25
5G NR n41 HPUE	Ant 2	27	27	27	27	27	27	27	27	27	27
5G NR n77	Ant 2	24	24	21	18	21	18	21	18	24	24
5G NR n78	Ant 2	24	24	21	18	21	18	21	18	24	24
5G NR n77 HPUE	Ant 2	27	27	24	21	24	21	24	21	27	27
5G NR n78 HPUE	Ant 2	27	27	24	21	24	21	24	21	27	27

Band	Antenna	Head	Head Simultaneous	Body-worn	Body-worn Simultaneous	Hotspot	Hotspot Simultaneous	Extremity	Extremity Simultaneous	Sensor off	Default
		Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up
		Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit
5G NR n77	Ant 3	24	24	24	23	24	23	24	23	24	24
5G NR n78	Ant 3	24	24	24	23	24	23	24	23	24	24
5G NR n77 HPUE	Ant 3	27	27	27	26	27	26	27	26	27	27
5G NR n78 HPUE	Ant 3	27	27	27	26	27	26	27	26	27	27

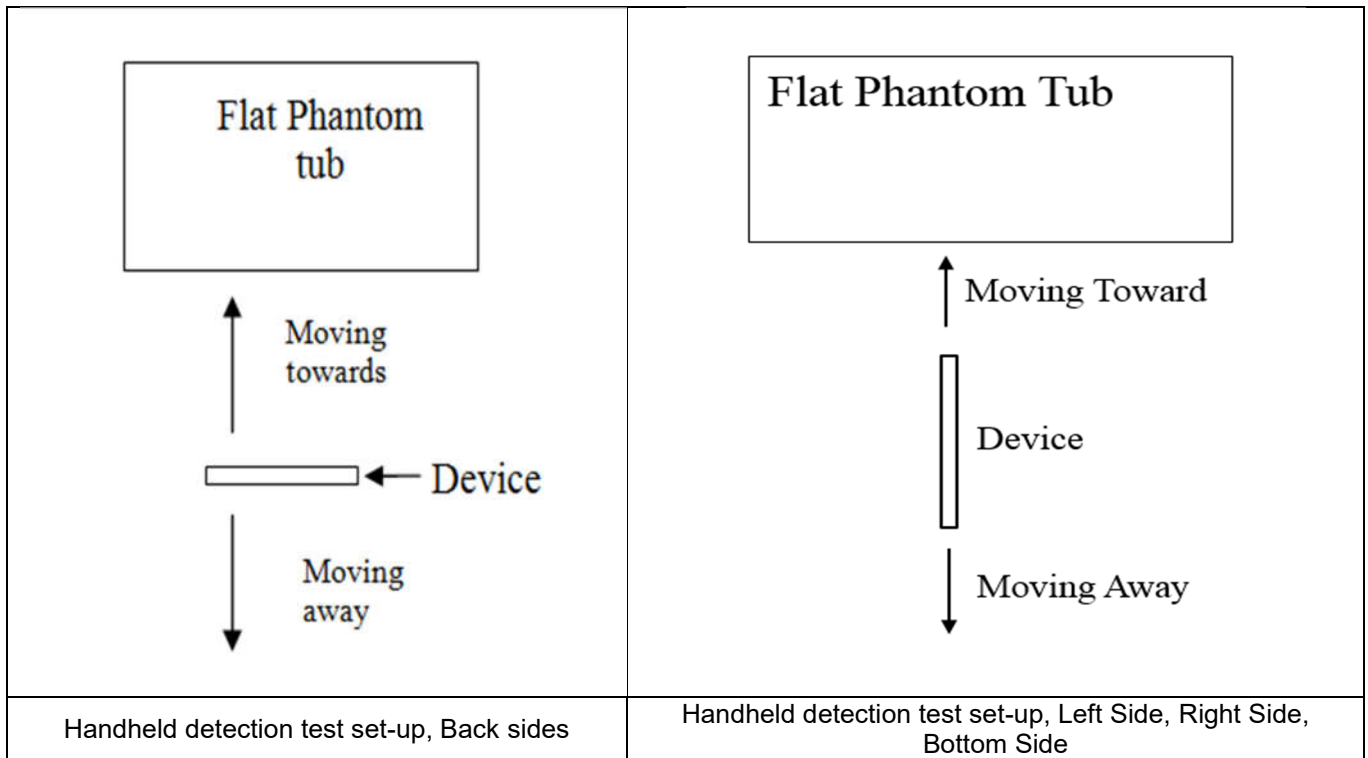
Band	Antenna	Head	Head Simultaneous	Body-worn	Hotspot	Extremity	Sensor off	Default
		Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up
		Limit	Limit	Limit	Limit	Limit	Limit	Limit
5G NR n77	Ant 5	23	19.5	24	24	24	24	24
5G NR n78	Ant 5	23	19.5	24	24	24	24	24
5G NR n77 HPUE	Ant 5	26	22.5	27	27	27	27	27
5G NR n78 HPUE	Ant 5	26	22.5	27	27	27	27	27

Band	Antenna	Head	Head Simultaneous	Body-worn	Body-worn Simultaneous	Hotspot	Hotspot Simultaneous	Extremity	Extremity Simultaneous	Sensor off	Default
		Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up	Tune-up
		Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit
5G NR n77	Ant 6	25	25	23	20	23	20	23	20	25	25
5G NR n78	Ant 6	24	24	22	19	22	19	22	19	24	24
5G NR n77 HPUE	Ant 6	27	27	25	22	25	22	25	22	27	27
5G NR n78 HPUE	Ant 6	27	27	25	22	25	22	25	22	27	27

5. 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 frequency (2300MHz) 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 or finger or hand at the back or bottom or left or right side of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna.
3. The sensors can use to detect the proximity of the user's body or handheld states at the back or bottom or left or right side of the device use a detection threshold distance. When back/right/left/bottom sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
4. 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.



<Handheld for ANT 0>

Proximity Sensor Triggering Distance (mm)				
Position	Back		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	18	21	16	17

<Handheld for ANT1>

Proximity Sensor Triggering Distance (mm)				
Position	Back		Left Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	35	31	25	39

<Handheld for ANT2>

Proximity Sensor Triggering Distance (mm)				
Position	Back		Left Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	19	20	16	20

<Handheld for ANT6>

Proximity Sensor Triggering Distance (mm)				
Position	Back			
	Moving towards	Moving away		
Minimum	15		16	

<Handheld for ANT8+9>

Proximity Sensor Triggering Distance (mm)				
Position	Back		Right Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	16	15	16	18

6. RF Exposure Limits

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

7. Specific Absorption Rate (SAR)

7.1 Introduction

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

7.2 SAR Definition

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

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

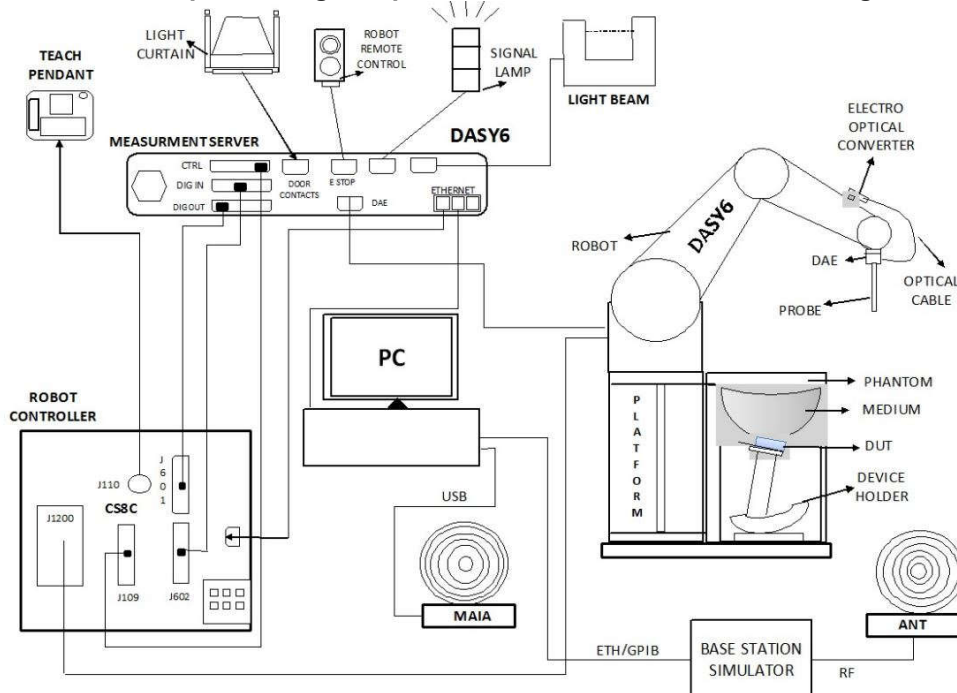
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

8. System Description and Setup

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



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

8.1 E-Field Probe

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

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	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	

8.2 Data Acquisition Electronics (DAE)

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

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



Photo of DAE

8.3 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices or for evaluating transmitters operating at low frequencies. ELI is fully compatible with standard and all known tissue simulating liquids.

8.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

9. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

9.1 Spatial Peak SAR Evaluation

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

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

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

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values 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

9.2 Power Reference Measurement

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

9.3 Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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.	

9.4 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.				

9.5 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.

9.6 Power Drift Monitoring

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

10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	2022/2/24	2025/2/22
SPEAG	835MHz System Validation Kit	D835V2	4d298	2024/1/26	2025/1/25
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2022/2/24	2025/2/22
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	2022/3/30	2025/3/28
SPEAG	2300MHz System Validation Kit	D2300V2	1055	2023/8/21	2026/8/20
SPEAG	2450MHz System Validation Kit	D2450V2	1095	2024/2/8	2025/2/7
SPEAG	2600MHz System Validation Kit	D2600V2	1112	2023/12/18	2026/12/17
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2023/11/20	2026/11/19
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2023/11/20	2026/11/19
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2026/3/8
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/21
SPEAG	Data Acquisition Electronics	DAE4	1691	2024/4/19	2025/4/18
SPEAG	Dosimetric E-Field Probe	EX3DV4	7764	2024/9/2	2025/9/1
SPEAG	SAM Twin Phantom	SAM Twin	TP-1753	NCR	NCR
CHIGO	Thermo-Hygrometer	HTC-1	55009	2025/1/2	2026/1/1
CHIGO	Thermo-Hygrometer	HTC-1	55010	2024/1/4	2025/1/3
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Rohde & Schwarz	Signal Generator	SMB100A	100455	2024/1/2	2025/1/1
Rohde & Schwarz	Signal Generator	SMB100A	100455	2025/1/2	2026/1/1
Keysight	Preamplifier	83017A	MY57280106	2024/4/18	2025/4/17
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2024/7/4	2025/7/3
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	2024/7/4	2025/7/3
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2024/8/20	2025/8/19
Anritsu	Vector Signal Generator	MG3710A	6201682672	2024/1/2	2025/1/1
Anritsu	Vector Signal Generator	MG3710A	6201682672	2025/1/3	2026/1/2
Rohde & Schwarz	Power Meter	NRVD	102081	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRP50S	101385	2024/10/15	2025/10/14
R&S	BLUETOOTH TESTER	CBT	101246	2024/7/4	2025/7/3
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2024/10/11	2025/10/10
TES	DIGITAC THERMOMETER	TYPE-K	220305411	2024/1/2	2025/1/1
TES	DIGITAC THERMOMETER	TYPE-K	220305411	2025/1/2	2026/1/1
ARRA	Power Divider	A3200-2	N/A	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	

Note:

- 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
- 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.
- The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

11. System Verification

11.1 Tissue Simulating Liquids

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

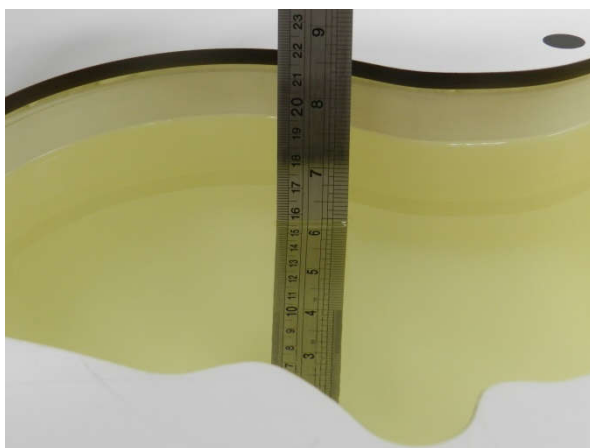


Fig 11.1 Photo of Liquid Height for Head SAR



Fig 11.2 Photo of Liquid Height for Body SAR

11.2 Tissue Verification

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

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (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)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	Head	22.6	0.925	42.4	0.89	41.90	3.93	1.19	±5	2025/1/10
835	Head	22.7	0.930	40.9	0.90	41.50	3.33	-1.45	±5	2025/1/11
1750	Head	22.8	1.38	40.2	1.37	40.10	0.73	0.25	±5	2025/1/12
1900	Head	22.7	1.45	39.9	1.40	40.00	3.57	-0.25	±5	2025/1/13
2300	Head	22.8	1.71	39.4	1.67	39.50	2.40	-0.25	±5	2025/1/14
2600	Head	22.6	1.93	39.0	1.96	39.00	-1.53	0.00	±5	2025/1/15
3500	Head	22.8	2.80	39.0	2.91	37.90	-3.78	2.90	±5	2025/1/16
3700	Head	22.7	2.98	38.6	3.12	37.70	-4.49	2.39	±5	2025/1/17
3900	Head	22.7	3.18	38.4	3.32	37.50	-4.22	2.40	±5	2025/1/18
750	Head	22.8	0.926	42.5	0.89	41.90	4.04	1.43	±5	2025/1/1
835	Head	22.7	0.930	40.9	0.90	41.50	3.33	-1.45	±5	2025/1/3
1750	Head	22.8	1.38	40.3	1.37	40.10	0.73	0.50	±5	2025/1/3
1900	Head	22.7	1.45	40.0	1.40	40.00	3.57	0.00	±5	2025/1/4
2300	Head	22.6	1.71	39.5	1.67	39.50	2.40	0.00	±5	2025/1/5
2600	Head	22.9	1.94	39.1	1.96	39.00	-1.02	0.26	±5	2025/1/6
3500	Head	22.7	2.83	39.0	2.91	37.90	-2.75	2.90	±5	2025/1/7
3700	Head	22.8	3.02	38.7	3.12	37.70	-3.21	2.65	±5	2025/1/8
3900	Head	22.6	3.22	38.4	3.32	37.50	-3.01	2.40	±5	2025/1/9
2450	Head	22.7	1.82	39.2	1.80	39.20	1.11	0.00	±5	2025/1/19
5250	Head	22.7	4.56	35.0	4.71	35.90	-3.18	-2.51	±5	2025/1/20
5600	Head	22.8	4.95	34.4	5.07	35.50	-2.37	-3.10	±5	2025/1/21
5750	Head	22.8	5.12	34.1	5.22	35.40	-1.92	-3.67	±5	2025/1/22
1750	Head	22.7	1.38	40.2	1.37	40.10	0.73	0.25	±5	2025/2/22
1900	Head	22.8	1.45	39.9	1.40	40.00	3.57	-0.25	±5	2025/2/22
3500	Head	22.8	2.80	39.0	2.91	37.90	-3.78	2.90	±5	2025/2/23
3700	Head	22.7	2.98	38.6	3.12	37.70	-4.49	2.39	±5	2025/2/24
3900	Head	22.9	3.18	38.4	3.32	37.50	-4.22	2.40	±5	2025/2/25

11.3 System Performance Check Results

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

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2025/1/10	750	Head	50	1087	7764	1691	0.422	8.58	8.44	-1.63
2025/1/11	835	Head	50	4d298	7764	1691	0.495	9.89	9.9	0.10
2025/1/12	1750	Head	50	1090	7764	1691	1.95	37.00	39	5.41
2025/1/13	1900	Head	50	5d118	7764	1691	1.83	39.30	36.6	-6.87
2025/1/14	2300	Head	50	1055	7764	1691	2.47	48.40	49.4	2.07
2025/1/15	2600	Head	50	1112	7764	1691	2.64	55.10	52.8	-4.17
2025/1/16	3500	Head	50	1037	7764	1691	3.25	65.40	65	-0.61
2025/1/17	3700	Head	50	1008	7764	1691	3.36	67.20	67.2	0.00
2025/1/18	3900	Head	50	1048	7764	1691	3.42	69.10	68.4	-1.01
2025/1/1	750	Head	50	1087	7764	1691	0.411	8.58	8.22	-4.20
2025/1/3	835	Head	50	4d298	7764	1691	0.516	9.89	10.32	4.35
2025/1/3	1750	Head	50	1090	7764	1691	1.940	37.00	38.8	4.86
2025/1/4	1900	Head	50	5d118	7764	1691	2.11	39.30	42.2	7.38
2025/1/5	2300	Head	50	1055	7764	1691	2.47	48.40	49.4	2.07
2025/1/6	2600	Head	50	1112	7764	1691	2.55	55.10	51	-7.44
2025/1/7	3500	Head	50	1037	7764	1691	3.32	65.40	66.4	1.53
2025/1/8	3700	Head	50	1008	7764	1691	3.38	67.20	67.6	0.60
2025/1/9	3900	Head	50	1048	7764	1691	3.37	69.10	67.4	-2.46
2025/1/19	2450	Head	50	1095	7764	1691	2.58	52.60	51.6	-1.90
2025/1/20	5250	Head	50	1113	7764	1691	4.02	81.50	80.4	-1.35
2025/1/21	5600	Head	50	1113	7764	1691	4.06	82.60	81.2	-1.69
2025/1/22	5750	Head	50	1113	7764	1691	4.17	80.80	83.4	3.22
2025/2/22	1750	Head	50	1090	7764	1691	1.970	37.00	39.4	6.49
2025/2/22	1900	Head	50	5d118	7764	1691	1.830	39.30	36.6	-6.87
2025/2/23	3500	Head	50	1037	7764	1691	3.420	65.40	68.4	4.59
2025/2/24	3700	Head	50	1008	7764	1691	3.460	67.20	69.2	2.98
2025/2/25	3900	Head	50	1048	7764	1691	3.370	69.10	67.4	-2.46

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2025/1/10	750	Head	50	1087	7764	1691	0.283	5.65	5.66	0.18
2025/1/11	835	Head	50	4d298	7764	1691	0.330	6.45	6.6	2.33
2025/1/12	1750	Head	50	1090	7764	1691	1.01	19.50	20.2	3.59
2025/1/13	1900	Head	50	5d118	7764	1691	0.96	20.40	19.2	-5.88
2025/1/14	2300	Head	50	1055	7764	1691	1.23	23.70	24.6	3.80
2025/1/15	2600	Head	50	1112	7764	1691	1.19	24.80	23.8	-4.03
2025/1/16	3500	Head	50	1037	7764	1691	1.32	24.70	26.4	6.88
2025/1/17	3700	Head	50	1008	7764	1691	1.31	24.40	26.2	7.38
2025/1/18	3900	Head	50	1048	7764	1691	1.27	24.10	25.4	5.39
2025/1/1	750	Head	50	1087	7764	1691	0.271	5.65	5.42	-4.07
2025/1/3	835	Head	50	4d298	7764	1691	0.338	6.45	6.76	4.81
2025/1/3	1750	Head	50	1090	7764	1691	1.04	19.50	20.8	6.67
2025/1/4	1900	Head	50	5d118	7764	1691	1.09	20.40	21.8	6.86
2025/1/5	2300	Head	50	1055	7764	1691	1.18	23.70	23.6	-0.42
2025/1/6	2600	Head	50	1112	7764	1691	1.15	24.80	23	-7.26

2025/1/7	3500	Head	50	1037	7764	1691	1.28	24.70	25.6	3.64
2025/1/8	3700		50	1008	7764	1691	1.26	24.40	25.2	3.28
2025/1/9	3900	Head	50	1048	7764	1691	1.20	24.10	24	-0.41
2025/1/19	2450	Head	50	1095	7764	1691	1.21	24.70	24.2	-2.02
2025/1/20	5250	Head	50	1113	7764	1691	1.16	23.30	23.2	-0.43
2025/1/21	5600	Head	50	1113	7764	1691	1.15	23.70	23	-2.95
2025/1/22	5750	Head	50	1113	7764	1691	1.18	23.00	23.6	2.61
2025/2/22	1750	Head	50	1090	7764	1691	1.050	19.50	21	7.69
2025/2/22	1900	Head	50	5d118	7764	1691	0.953	20.40	19.06	-6.57
2025/2/23	3500	Head	50	1037	7764	1691	1.330	24.70	26.6	7.69
2025/2/24	3700	Head	50	1008	7764	1691	1.310	24.40	26.2	7.38
2025/2/25	3900	Head	50	1048	7764	1691	1.200	24.10	24	-0.41

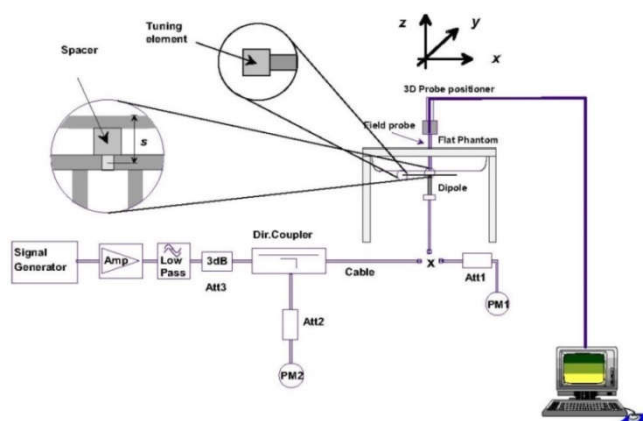


Fig 11.3.1 System Performance Check Setup

Fig 11.3.2 Setup Photo

12. RF Exposure Positions

12.1 Ear and handset reference point

Figure 12.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M,” the left ear reference point (ERP) is marked “LE,” and the right ERP is marked “RE.” Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 12.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 12.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

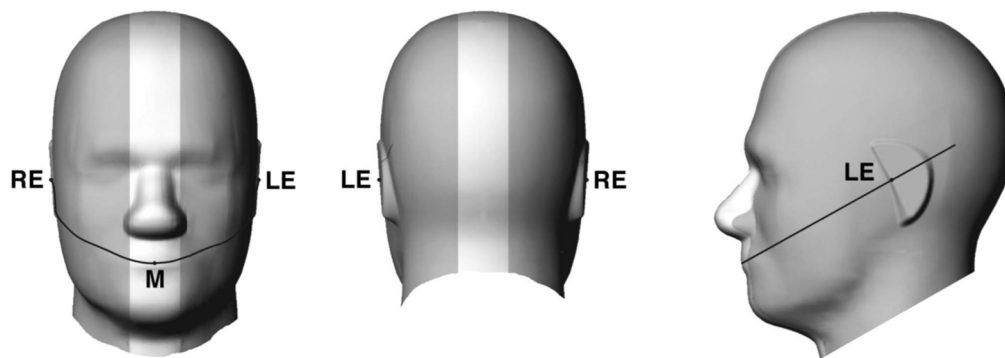


Fig 12.1.1 Front, back, and side views of SAM twin phantom

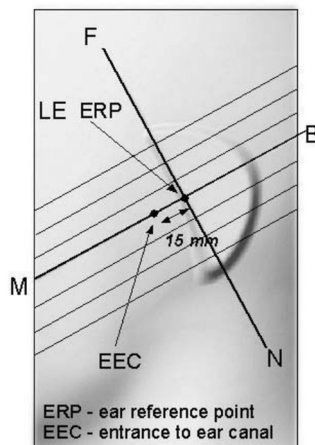


Fig 12.1.2 Close-up side view of phantom showing the ear region.

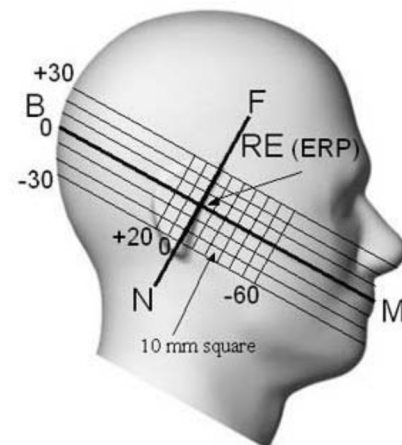


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

12.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width 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 horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.

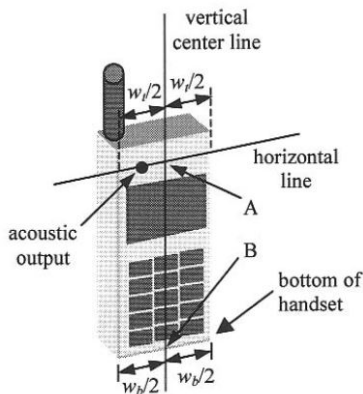


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

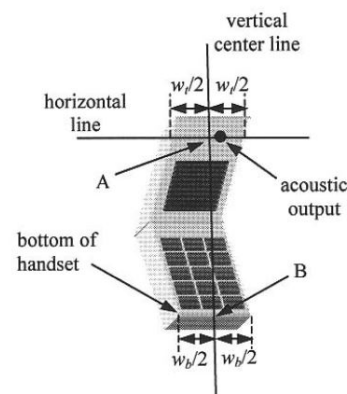


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

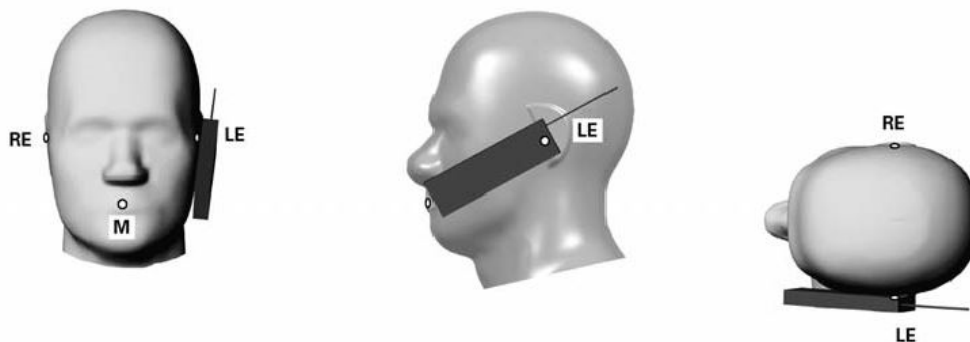


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

12.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 12.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

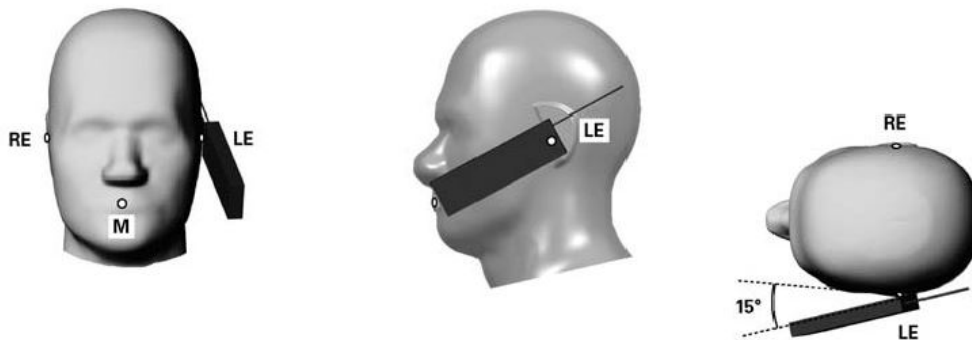


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

12.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 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.

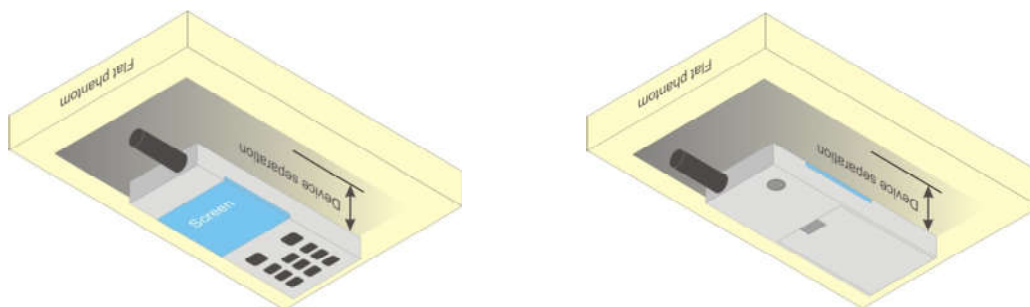


Fig 12.4 Body Worn Position

12.5 Product Specific 10g SAR Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that 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.

12.6 Wireless Router

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

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

13. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<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.

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, TF0) 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

<WCDMA Conducted Power>

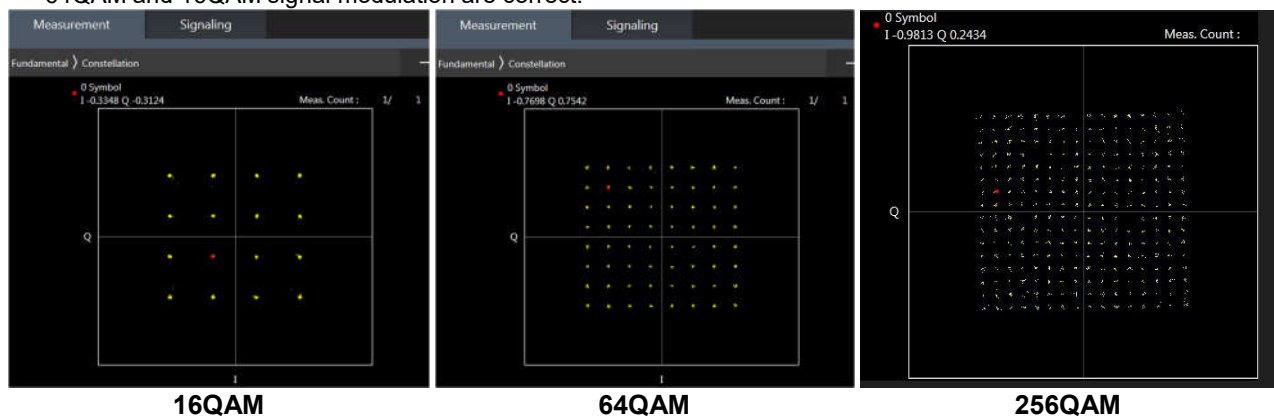
General Note:

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

<LTE Conducted Power>

General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ 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 SAR test was covered by B25 / B66 / B26 / B12 / B41; 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.

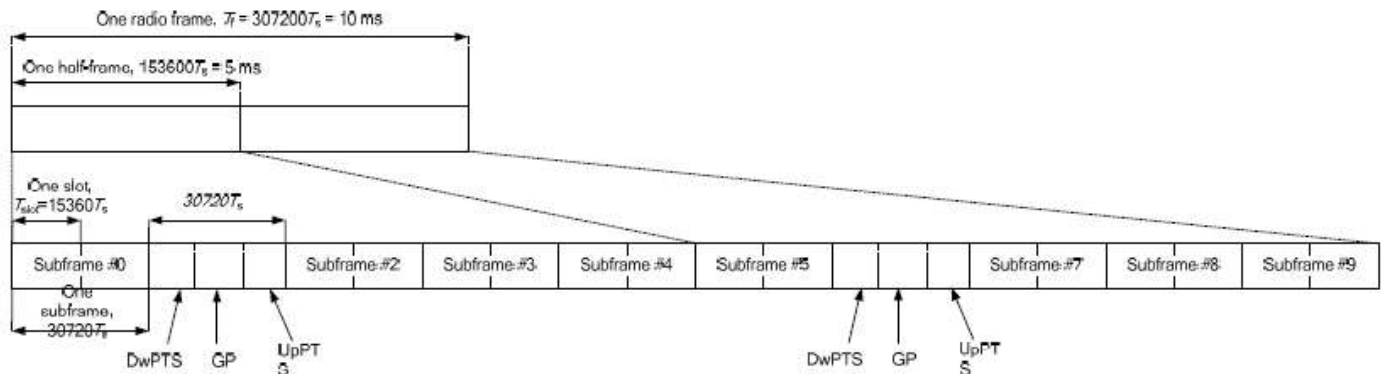


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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 3

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

<LTE Carrier Aggregation>
General Note:

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
3. All permutations exist. No restrictions on Pcell & Scell combinations but Only LTE Band 29A is limited to Scell.
4. 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.

2CC Downlink Carrier Aggregation		3CC Downlink Carrier Aggregation	
Number	Combination	Number	Combination
1	CA_12A-30A	1	CA_12A-30A-66A
2	CA_12A-66A	2	CA_12A-66A-66A
3	CA_13A-66A	3	CA_13A-66B
4	CA_25A-25A	4	CA_13A-66C
5	CA_29A-30A	5	CA_2A-12A-30A
6	CA_29A-66A	6	CA_2A-12A-66A
7	CA_2A-12A	7	CA_2A-13A-66A
8	CA_2A-13A	8	CA_2A-29A-30A
9	CA_2A-29A	9	CA_2A-2A-12A
10	CA_2A-2A	10	CA_2A-2A-13A
11	CA_2A-30A	11	CA_2A-2A-4A
12	CA_2A-4A	12	CA_2A-2A-5A
13	CA_2A-5A	14	CA_2A-2A-66A
14	CA_2A-66A	15	CA_2A-4A-13A
15	CA_30A-66A	16	CA_2A-4A-4A
16	CA_38C	17	CA_2A-4A-5A
17	CA_41C	18	CA_2A-5A-30A
18	CA_4A-12A	19	CA_2A-5A-66A
19	CA_4A-13A	20	CA_2A-5B
20	CA_4A-29A	21	CA_2A-66A-66A
21	CA_4A-4A	22	CA_2A-66B
22	CA_4A-5A	23	CA_2A-66C
23	CA_5A-30A	24	CA_30A-66A-66A
24	CA_5A-5A	25	CA_41D
25	CA_5A-66A	26	CA_4A-12A-30A
26	CA_5A-7A	27	CA_4A-29A-30A
27	CA_5B	28	CA_4A-4A-12A
28	CA_66A-66A	29	CA_4A-4A-13A
29	CA_66B	30	CA_4A-4A-5A
30	CA_66C	31	CA_4A-5A-30A
31	CA_7A-7A	32	CA_4A-5B
32	CA_4A-17A	33	CA_5A-30A-66A
33	CA_4A-30A	34	CA_5A-5A-66A
		35	CA_5A-66A-66A
		36	CA_5A-66B
		37	CA_5A-66C
		38	CA_5B-66A
		39	CA_66A-66A-66A
		40	CA_66A-66C
		41	CA_13A-66A-66A

		42	CA_2A-4A-12A
--	--	----	--------------

LTE Carrier Aggregation Conducted Power (Downlink)

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

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

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Band 4/66/30/7/38/41/42 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

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

4X4 MIMO	Band
	LTE Band 4/66/30/7/38/41/42

5G NR Output Power (Unit: dBm)**General Note:**

1. 5G NR n2/n5/n30/n41/n66/n77/n78 is NSA mode.
2. 5G NR n2/n5/n7/n12/n13/n25/n26/n30/n38/n41/n66/n71/n77/n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s 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
4. 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.
5. 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.
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. 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, using FTM to perform SAR with default 100% transmission.
9. This device supports HPUE mode for 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 we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
10. 5G NR n77/n78 supports UL MIMO mode, MIMO SAR base on standalone SAR summed together as MIMO SAR.
11. For 5G NR EN-DC mode, standalone SAR performed for 5G NR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.

<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	Main Antenna Tx		Asdiv Antenna Tx	
	LTE TX	NR TX	LTE TX	NR TX
DC_13A_n66A	Ant 1	Ant 0	Ant 1	Ant 2
DC_2A_n5A	Ant 0	Ant 1	Ant 2	Ant 1
DC_66A_n5A	Ant 0	Ant 1	Ant 2	Ant 1
DC_5A_n30A	Ant 1	Ant 0	Ant 1	Ant 2
DC_12A_n30A	Ant 1	Ant 0	Ant 1	Ant 2
DC_5A_n66A	Ant 1	Ant 0	Ant 1	Ant 2
DC_12A_n66A	Ant 1	Ant 0	Ant 1	Ant 2
DC_12A_n2A	Ant 1	Ant 0	Ant 1	Ant 2
DC_7A_n78A	Ant 0	Ant 5	Ant 1	Ant 6
DC_5A_n78A	Ant 1	Ant 2	Ant 1	Ant 3/6/5
DC_13A_n2A	Ant 1	Ant 0	Ant 1	Ant 2
DC_41A_n78A	Ant 0	Ant 5	Ant 1	Ant 6
DC_2A_n77A	Ant 0	Ant 5	Ant 1	Ant 6
DC_66A_n77A	Ant 0	Ant 5	Ant 1	Ant 6
DC_12A_n77A	Ant 1	Ant 2	Ant 1	Ant 3/6/5
DC_13A_n77A	Ant 1	Ant 2	Ant 1	Ant 3/6/5
DC_5A_n77A	Ant 1	Ant 2	Ant 1	Ant 3/6/5
DC_5A_n2A	Ant 1	Ant 0	Ant 1	Ant 2
DC_30A_n5A	Ant 0	Ant 1	Ant 2	Ant 1
DC_30A_n77A	Ant 0	Ant 5	Ant 1	Ant 6
DC_26A_n41A	Ant 1	Ant 0	Ant 1	Ant 2
DC_12A_n41A	Ant 1	Ant 0	Ant 1	Ant 2

UL MIMO combination:

ULMIMO	Antenna Tx
n77	Ant2+Ant5
n78	Ant2+Ant5

<WLAN Conducted Power>
General Note:

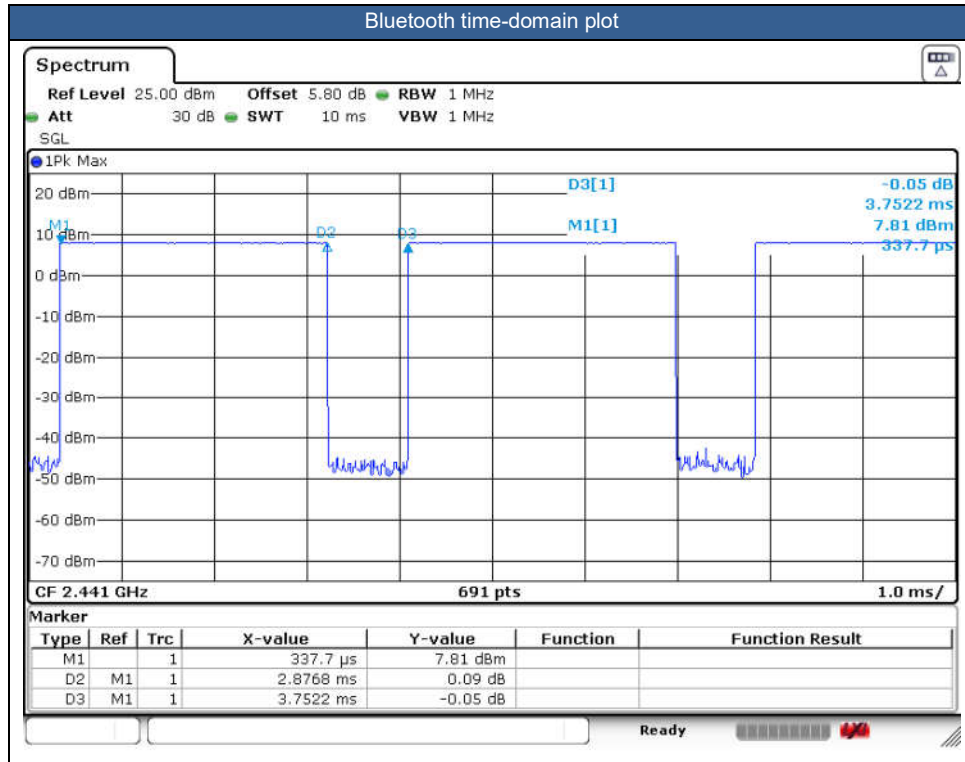
- The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default 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.
- 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.
- 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).
- 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.
- 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:
 - 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.
 - 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.
 - 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.
- The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.
- 802.11 ax 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.
- SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.
- 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 76.67% as following figure, for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to 83.3% for Bluetooth reported SAR calculation





14. Antenna Location

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

15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - f. 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.
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 Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). Details about the power management decision and sensor detection are provided in the operational description.
5. For WLAN when transmit simultaneous with WWAN/BT, power reduction will be activated to head, body-worn and extremity exposure condition. For WLAN when Proximity sensors trigger, power reduction will be activated.
6. 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, using FTM to perform SAR with default 100% transmission.
7. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15 cm or an overall diagonal dimension > 16 cm, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, in this report all the hotspot mode results are < 1.2 W/kg.
 - a. WLAN 5.2/5.3/5.5/5.8GHz tested the product specific 10g SAR since it has no hotspot mode.
8. 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.
9. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
10. 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.

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 is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/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 SAR test was covered by B25 / B66 / B26 / B12 / B41; 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 n5/n12/n26/n71/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. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.
7. 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.

DSI status description:

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

Exposure Condition	DSI	Trigger Conditions
Head SAR	DSI 2	Receiver on
Head Simultaneous SAR	-	Receiver on +WLAN/BT
Hotspot SAR	DSI 7	Hotspot On
Hotspot Simultaneous SAR	-	Hotspot On +WLAN/BT
Body worn SAR Extremity (Handheld) SAR	DSI 6	Sensor On
Body worn SAR Extremity (Handheld) Simultaneous SAR	-	Sensor On/Receiver off +WLAN/BT
Sensor Off SAR	DSI 1	Sensor Off



15.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
01	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	133322	683	23.58	24.50	1.236	-	-	0.01	0.517	0.639
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	133322	683	22.46	23.50	1.271	-	-	0.08	0.440	0.559
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	133322	683	23.58	24.50	1.236	-	-	0.01	0.337	0.417
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	133322	683	22.46	23.50	1.271	-	-	0.03	0.287	0.365
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	133322	683	23.58	24.50	1.236	-	-	-0.08	0.314	0.388
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	133322	683	22.46	23.50	1.271	-	-	-0.08	0.270	0.343
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	133322	683	23.58	24.50	1.236	-	-	0.1	0.199	0.246
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	133322	683	22.46	23.50	1.271	-	-	-0.18	0.174	0.221
02	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	24.33	25.50	1.309	-	-	0.02	0.572	0.749
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	23.41	24.50	1.285	-	-	0.1	0.520	0.668
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	24.33	25.50	1.309	-	-	0.12	0.380	0.497
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	23.41	24.50	1.285	-	-	0.08	0.312	0.401
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	24.33	25.50	1.309	-	-	-0.17	0.390	0.511
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	23.41	24.50	1.285	-	-	-0.03	0.319	0.410
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	24.33	25.50	1.309	-	-	0.14	0.235	0.308
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	23.41	24.50	1.285	-	-	0.11	0.197	0.253
03	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	23230	782	24.06	25.50	1.393	-	-	0.02	0.593	0.826
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	23230	782	23.11	24.50	1.377	-	-	-0.05	0.512	0.705
	LTE Band 13	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	23230	782	23.11	24.50	1.377	-	-	0.18	0.517	0.712
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	23230	782	24.06	25.50	1.393	-	-	0.14	0.390	0.543
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	23230	782	23.11	24.50	1.377	-	-	-0.17	0.315	0.434
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	23230	782	24.06	25.50	1.393	-	-	0.17	0.420	0.585
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	23230	782	23.11	24.50	1.377	-	-	-0.05	0.335	0.461
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	23230	782	24.06	25.50	1.393	-	-	0.01	0.253	0.352
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	23230	782	23.11	24.50	1.377	-	-	0.1	0.201	0.277
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	136100	680.5	23.59	24.50	1.233	-	-	-0.17	0.418	0.515
04	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	136100	680.5	23.57	24.50	1.239	-	-	0.05	0.444	0.550
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	136100	680.5	23.59	24.50	1.233	-	-	0.04	0.265	0.327
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	136100	680.5	23.57	24.50	1.239	-	-	-0.01	0.279	0.346
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	136100	680.5	23.59	24.50	1.233	-	-	-0.08	0.255	0.314
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	136100	680.5	23.57	24.50	1.239	-	-	0.05	0.272	0.337
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	136100	680.5	23.59	24.50	1.233	-	-	0.06	0.162	0.200
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	136100	680.5	23.57	24.50	1.239	-	-	-0.09	0.169	0.209
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	141500	707.5	23.81	24.50	1.172	-	-	-0.08	0.488	0.572
05	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	141500	707.5	23.68	24.50	1.208	-	-	0.02	0.489	0.591
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	141500	707.5	23.81	24.50	1.172	-	-	0.13	0.300	0.352
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	141500	707.5	23.68	24.50	1.208	-	-	0.12	0.304	0.367
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	141500	707.5	23.81	24.50	1.172	-	-	0.03	0.312	0.366
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	141500	707.5	23.68	24.50	1.208	-	-	0.18	0.310	0.374
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	141500	707.5	23.81	24.50	1.172	-	-	0.16	0.190	0.223
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	141500	707.5	23.68	24.50	1.208	-	-	-0.1	0.193	0.233
06	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	156400	782	23.68	24.50	1.208	-	-	0.07	0.475	0.574
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	156400	782	23.65	24.50	1.216	-	-	0.07	0.453	0.551
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	156400	782	23.68	24.50	1.208	-	-	0.18	0.303	0.366
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	156400	782	23.65	24.50	1.216	-	-	-0.1	0.282	0.343
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	156400	782	23.68	24.50	1.208	-	-	0.01	0.330	0.399
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	156400	782	23.65	24.50	1.216	-	-	-0.15	0.303	0.369
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	156400	782	23.68	24.50	1.208	-	-	0.19	0.200	0.242
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	156400	782	23.65	24.50	1.216	-	-	0.07	0.191	0.232
835MHz																				



FCC SAR Test Report

Report No. : FA4N0543

	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4182	836.4	23.96	24.50	1.132	-	-	-0.08	0.775	0.878
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4182	836.4	23.96	24.50	1.132	-	-	-0.04	0.498	0.564
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	4182	836.4	23.96	24.50	1.132	-	-	-0.08	0.578	0.655
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	4182	836.4	23.96	24.50	1.132	-	-	0.17	0.348	0.394
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4132	826.4	23.92	24.50	1.143	-	-	0.18	0.715	0.817
07	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4233	846.6	23.86	24.50	1.159	-	-	0.05	0.818	0.948
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Simultaneous	4233	846.6	22.92	23.50	1.143	-	-	0.05	0.631	0.721
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	Simultaneous	4233	846.6	22.92	23.50	1.143	-	-	-0.08	0.398	0.455
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	Simultaneous	4233	846.6	22.92	23.50	1.143	-	-	-0.08	0.460	0.526
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	Simultaneous	4233	846.6	22.92	23.50	1.143	-	-	0.1	0.279	0.319
08	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	23.58	24.50	1.236	-	-	0.03	0.766	0.947
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Simultaneous	26865	831.5	22.64	23.50	1.219	-	-	0.01	0.621	0.757
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Simultaneous	26865	831.5	22.64	23.50	1.219	-	-	-0.18	0.380	0.463
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Simultaneous	26865	831.5	22.64	23.50	1.219	-	-	0.1	0.436	0.531
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Simultaneous	26865	831.5	22.64	23.50	1.219	-	-	0.12	0.255	0.311
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	22.61	23.50	1.227	-	-	-0.13	0.637	0.782
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	22.45	23.50	1.274	-	-	-0.13	0.623	0.793
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	23.58	24.50	1.236	-	-	0.06	0.459	0.567
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	22.61	23.50	1.227	-	-	-0.03	0.385	0.473
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	23.58	24.50	1.236	-	-	-0.03	0.530	0.655
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	22.61	23.50	1.227	-	-	0.08	0.442	0.543
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	23.58	24.50	1.236	-	-	-0.07	0.312	0.386
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	22.61	23.50	1.227	-	-	0.05	0.263	0.323
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	166300	831.5	23.66	24.50	1.213	-	-	-0.12	0.398	0.483
09	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	166300	831.5	23.62	24.50	1.225	-	-	0.07	0.434	0.531
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	166300	831.5	23.66	24.50	1.213	-	-	0.03	0.233	0.283
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	166300	831.5	23.62	24.50	1.225	-	-	-0.16	0.262	0.321
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	166300	831.5	23.66	24.50	1.213	-	-	-0.02	0.286	0.347
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	166300	831.5	23.62	24.50	1.225	-	-	0.15	0.314	0.385
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	166300	831.5	23.66	24.50	1.213	-	-	-0.09	0.163	0.198
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	166300	831.5	23.62	24.50	1.225	-	-	0.11	0.182	0.223
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	1413	1732.6	23.71	24.50	1.199	-	-	-0.05	0.105	0.126
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	1413	1732.6	23.71	24.50	1.199	-	-	-0.08	0.068	0.082
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	1413	1732.6	23.71	24.50	1.199	-	-	0.16	0.133	0.160
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	1413	1732.6	23.71	24.50	1.199	-	-	0.05	0.071	0.085
10	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	1413	1732.6	23.56	24.50	1.242	-	-	0.04	0.456	0.566
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	1413	1732.6	23.56	24.50	1.242	-	-	-0.15	0.241	0.299
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	1413	1732.6	23.56	24.50	1.242	-	-	0.02	0.169	0.210
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	1413	1732.6	23.56	24.50	1.242	-	-	0.07	0.133	0.165
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	23.19	24.00	1.205	-	-	0.13	0.118	0.142
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	22.29	23.00	1.178	-	-	-0.18	0.096	0.113
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	23.19	24.00	1.205	-	-	0.02	0.070	0.084
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	22.29	23.00	1.178	-	-	0.16	0.058	0.068
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	23.19	24.00	1.205	-	-	-0.03	0.155	0.187
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	22.29	23.00	1.178	-	-	0.07	0.128	0.151
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	23.19	24.00	1.205	-	-	0	0.066	0.080
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	22.29	23.00	1.178	-	-	0.01	0.055	0.065
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	21.67	22.00	1.079	-	-	-0.06	0.981	1.058
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	132072	1720	21.57	22.00	1.104	-	-	-0.04	0.923	1.019
11	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	132572	1770	21.59	22.00	1.099	-	-	-0.04	1.010	1.110
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Simultaneous	132572	1770	19.73	20.00	1.064	-	-	0.07	0.641	0.682
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Simultaneous	132572	1770	19.73	20.00	1.064	-	-	0.08	0.330	0.351
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Simultaneous	132572	1770	19.73	20.00	1.064	-	-	-0.17	0.271	0.288
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Simultaneous	132572	1770	19.73	20.00	1.064	-	-	-0.03	0.193	0.205
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	21.64	22.00	1.086	-	-	-0.1	0.792	0.860



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	132072	1720	21.54	22.00	1.112	-	-	0.18	0.727	0.808
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	132572	1770	21.61	22.00	1.094	-	-	-0.17	0.828	0.906
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	21.62	22.00	1.091	-	-	-0.04	0.807	0.881
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	21.67	22.00	1.079	-	-	-0.05	0.501	0.541
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	21.64	22.00	1.086	-	-	-0.01	0.403	0.438
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	21.67	22.00	1.079	-	-	0.05	0.415	0.448
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	21.64	22.00	1.086	-	-	0.17	0.339	0.368
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	21.67	22.00	1.079	-	-	0	0.291	0.314
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	21.64	22.00	1.086	-	-	-0.04	0.243	0.264
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	132322	1745	24.33	25.00	1.167	-	-	0.11	0.374	0.436
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	132322	1745	23.28	24.00	1.180	-	-	-0.02	0.311	0.367
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	132322	1745	24.33	25.00	1.167	-	-	0.1	0.114	0.133
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	132322	1745	23.28	24.00	1.180	-	-	0.04	0.093	0.110
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	132322	1745	24.33	25.00	1.167	-	-	0.13	0.177	0.207
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	132322	1745	23.28	24.00	1.180	-	-	-0.18	0.150	0.177
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	132322	1745	24.33	25.00	1.167	-	-	-0.11	0.093	0.109
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	132322	1745	23.28	24.00	1.180	-	-	-0.16	0.065	0.077
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	349000	1745	23.58	24.00	1.102	-	-	-0.06	0.119	0.131
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	349000	1745	23.45	24.00	1.135	-	-	-0.14	0.117	0.133
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	349000	1745	23.58	24.00	1.102	-	-	-0.19	0.060	0.066
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	349000	1745	23.45	24.00	1.135	-	-	0.01	0.066	0.075
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	349000	1745	23.58	24.00	1.102	-	-	0.06	0.123	0.135
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	349000	1745	23.45	24.00	1.135	-	-	0.02	0.154	0.175
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	349000	1745	23.58	24.00	1.102	-	-	0.12	0.062	0.068
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	349000	1745	23.45	24.00	1.135	-	-	-0.16	0.067	0.076
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	22.53	23.00	1.114	-	-	0.07	0.955	1.064
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	344000	1720	22.28	23.00	1.180	-	-	-0.02	0.980	1.157
12	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	354000	1770	22.08	23.00	1.236	-	-	0.07	0.988	1.221
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Simultaneous	354000	1770	20.27	21.00	1.183	-	-	0.04	0.633	0.749
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Simultaneous	354000	1770	20.27	21.00	1.183	-	-	0.14	0.303	0.358
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Simultaneous	354000	1770	20.27	21.00	1.183	-	-	0.11	0.290	0.343
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Simultaneous	354000	1770	20.27	21.00	1.183	-	-	-0.05	0.284	0.336
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	22.46	23.00	1.132	-	-	-0.13	0.906	1.026
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	344000	1720	22.27	23.00	1.183	-	-	0.08	0.930	1.100
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	354000	1770	22.13	23.00	1.222	-	-	0.16	0.963	1.177
	FR1 n66	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	22.45	23.00	1.135	-	-	0.01	0.939	1.066
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	22.53	23.00	1.114	-	-	-0.16	0.458	0.510
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	22.46	23.00	1.132	-	-	0.1	0.445	0.504
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	22.53	23.00	1.114	-	-	-0.04	0.447	0.498
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	22.46	23.00	1.132	-	-	-0.01	0.424	0.480
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	22.53	23.00	1.114	-	-	0	0.430	0.479
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	22.46	23.00	1.132	-	-	-0.11	0.422	0.478
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	349000	1745	23.84	24.00	1.038	-	-	0.08	0.623	0.646
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	349000	1745	23.80	24.00	1.047	-	-	0.01	0.657	0.688
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 2	349000	1745	23.84	24.00	1.038	-	-	0.01	0.192	0.199
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 2	349000	1745	23.80	24.00	1.047	-	-	0.03	0.179	0.187
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 2	349000	1745	23.84	24.00	1.038	-	-	-0.08	0.294	0.305
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 2	349000	1745	23.80	24.00	1.047	-	-	-0.08	0.321	0.336
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 2	349000	1745	23.84	24.00	1.038	-	-	0.1	0.158	0.164
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 2	349000	1745	23.80	24.00	1.047	-	-	-0.18	0.118	0.124
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	Simultaneous	349000	1745	22.91	23.00	1.021	-	-	0.08	0.493	0.503
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	Simultaneous	349000	1745	22.91	23.00	1.021	-	-	0.01	0.144	0.147
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	Simultaneous	349000	1745	22.91	23.00	1.021	-	-	0.03	0.241	0.246
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	Simultaneous	349000	1745	22.91	23.00	1.021	-	-	-0.08	0.119	0.121
1900MHz																				
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	9400	1880	23.62	24.50	1.225	-	-	-0.09	0.112	0.137



FCC SAR Test Report

Report No. : FA4N0543

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	9400	1880	23.62	24.50	1.225	-	-	-0.16	0.068	0.083
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	9400	1880	23.62	24.50	1.225	-	-	-0.18	0.129	0.158
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	9400	1880	23.62	24.50	1.225	-	-	-0.07	0.074	0.091
13	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9400	1880	23.42	24.50	1.282	-	-	0.03	0.751	0.963
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Simultaneous	9400	1880	23.05	24.00	1.245	-	-	0.03	0.629	0.783
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	Simultaneous	9400	1880	23.05	24.00	1.245	-	-	0.18	0.299	0.372
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	Simultaneous	9400	1880	23.05	24.00	1.245	-	-	0.14	0.290	0.361
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	Simultaneous	9400	1880	23.05	24.00	1.245	-	-	-0.17	0.241	0.300
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9262	1852.4	23.38	24.50	1.294	-	-	-0.1	0.741	0.959
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9538	1907.6	23.29	24.50	1.321	-	-	-0.01	0.727	0.961
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	9400	1880	23.42	24.50	1.282	-	-	-0.09	0.347	0.445
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	9400	1880	23.42	24.50	1.282	-	-	-0.01	0.335	0.430
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	9400	1880	23.42	24.50	1.282	-	-	0.03	0.269	0.345
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	26340	1880	22.98	24.00	1.265	-	-	0.16	0.132	0.167
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	26340	1880	22.17	23.00	1.211	-	-	-0.06	0.106	0.128
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	26340	1880	22.98	24.00	1.265	-	-	0.02	0.065	0.082
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	26340	1880	22.17	23.00	1.211	-	-	-0.16	0.055	0.067
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	26340	1880	22.98	24.00	1.265	-	-	0.05	0.137	0.173
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	26340	1880	22.17	23.00	1.211	-	-	-0.03	0.107	0.130
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	26340	1880	22.98	24.00	1.265	-	-	0.17	0.065	0.082
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	26340	1880	22.17	23.00	1.211	-	-	-0.15	0.054	0.065
14	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	20.41	21.00	1.146	-	-	0.04	0.925	1.060
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Simultaneous	26340	1880	18.97	19.50	1.130	-	-	0.06	0.627	0.708
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Simultaneous	26340	1880	18.97	19.50	1.130	-	-	0.17	0.294	0.332
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Simultaneous	26340	1880	18.97	19.50	1.130	-	-	-0.05	0.280	0.316
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Simultaneous	26340	1880	18.97	19.50	1.130	-	-	0.01	0.231	0.261
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26140	1860	20.40	21.00	1.148	-	-	-0.13	0.907	1.041
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26590	1905	20.34	21.00	1.164	-	-	-0.01	0.888	1.034
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	20.36	21.00	1.159	-	-	-0.11	0.735	0.852
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	26140	1860	20.33	21.00	1.167	-	-	0.19	0.729	0.851
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	26590	1905	20.29	21.00	1.178	-	-	-0.14	0.704	0.829
	LTE Band 25	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	20.36	21.00	1.159	-	-	-0.18	0.753	0.873
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	20.41	21.00	1.146	-	-	-0.06	0.427	0.489
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	20.36	21.00	1.159	-	-	0.01	0.345	0.400
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	20.41	21.00	1.146	-	-	0.13	0.401	0.459
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	20.36	21.00	1.159	-	-	0.08	0.315	0.365
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	20.41	21.00	1.146	-	-	-0.06	0.318	0.364
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	20.36	21.00	1.159	-	-	0	0.244	0.283
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	26340	1880	24.03	25.00	1.250	-	-	0.07	0.529	0.661
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	26340	1880	23.02	24.00	1.253	-	-	0.02	0.429	0.538
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	26340	1880	24.03	25.00	1.250	-	-	0.02	0.127	0.159
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	26340	1880	23.02	24.00	1.253	-	-	-0.03	0.103	0.129
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	26340	1880	24.03	25.00	1.250	-	-	0	0.303	0.379
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	26340	1880	23.02	24.00	1.253	-	-	-0.1	0.250	0.313
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	26340	1880	24.03	25.00	1.250	-	-	0.05	0.139	0.174
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	26340	1880	23.02	24.00	1.253	-	-	0	0.120	0.150
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	376500	1882.5	23.39	24.00	1.151	-	-	0.1	0.108	0.124
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	376500	1882.5	23.31	24.00	1.172	-	-	0.12	0.121	0.142
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	376500	1882.5	23.39	24.00	1.151	-	-	0.08	0.059	0.068
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	376500	1882.5	23.31	24.00	1.172	-	-	-0.17	0.064	0.075
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	376500	1882.5	23.39	24.00	1.151	-	-	-0.03	0.122	0.140
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	376500	1882.5	23.31	24.00	1.172	-	-	0.14	0.120	0.141
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	376500	1882.5	23.39	24.00	1.151	-	-	0.11	0.066	0.076
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	376500	1882.5	23.31	24.00	1.172	-	-	-0.05	0.069	0.081
15	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376500	1882.5	21.48	22.00	1.127	-	-	0.08	1.000	1.127
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Simultaneous	376500	1882.5	19.55	20.00	1.109	-	-	0.06	0.639	0.709



FCC SAR Test Report

Report No. : FA4N0543

	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Simultaneous	376500	1882.5	19.55	20.00	1.109	-	-	0.1	0.298	0.331
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Simultaneous	376500	1882.5	19.55	20.00	1.109	-	-	-0.17	0.286	0.317
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Simultaneous	376500	1882.5	19.55	20.00	1.109	-	-	0.04	0.242	0.268
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	372000	1860	21.33	22.00	1.167	-	-	-0.08	0.945	1.103
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	381000	1905	21.24	22.00	1.191	-	-	-0.08	0.945	1.126
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376500	1882.5	21.43	22.00	1.140	-	-	-0.13	0.963	1.098
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	372000	1860	21.33	22.00	1.167	-	-	0.01	0.959	1.119
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	381000	1905	21.15	22.00	1.216	-	-	-0.11	0.918	1.116
	FR1 n25	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376500	1882.5	21.38	22.00	1.153	-	-	0.03	0.956	1.103
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	376500	1882.5	21.48	22.00	1.127	-	-	-0.05	0.459	0.517
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	376500	1882.5	21.43	22.00	1.140	-	-	-0.12	0.450	0.513
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	376500	1882.5	21.48	22.00	1.127	-	-	0.11	0.449	0.506
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	376500	1882.5	21.43	22.00	1.140	-	-	-0.11	0.443	0.505
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	376500	1882.5	21.48	22.00	1.127	-	-	0.11	0.361	0.407
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	376500	1882.5	21.43	22.00	1.140	-	-	-0.05	0.356	0.406
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	376500	1882.5	23.68	24.00	1.076	-	-	-0.14	0.888	0.956
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	372000	1860	23.67	24.00	1.079	-	-	0.04	0.910	0.982
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	Simultaneous	372000	1860	21.33	21.50	1.040	-	-	-0.08	0.451	0.469
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	Simultaneous	372000	1860	21.33	21.50	1.040	-	-	0.1	0.129	0.134
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	Simultaneous	372000	1860	21.33	21.50	1.040	-	-	-0.18	0.257	0.267
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	Simultaneous	372000	1860	21.33	21.50	1.040	-	-	0.1	0.129	0.134
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	381000	1905	23.59	24.00	1.099	-	-	-0.15	0.876	0.963
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	376500	1882.5	23.59	24.00	1.099	-	-	-0.12	0.876	0.963
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	372000	1860	23.56	24.00	1.107	-	-	-0.17	0.880	0.974
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	381000	1905	23.50	24.00	1.122	-	-	0.08	0.849	0.953
	FR1 n25	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	376500	1882.5	23.54	24.00	1.112	-	-	0.01	0.881	0.979
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 2	376500	1882.5	23.68	24.00	1.076	-	-	0.02	0.206	0.222
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 2	376500	1882.5	23.59	24.00	1.099	-	-	-0.11	0.229	0.252
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 2	376500	1882.5	23.68	24.00	1.076	-	-	-0.01	0.493	0.531
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 2	376500	1882.5	23.59	24.00	1.099	-	-	0.09	0.506	0.556
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 2	376500	1882.5	23.68	24.00	1.076	-	-	0.1	0.202	0.217
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 2	376500	1882.5	23.59	24.00	1.099	-	-	-0.04	0.245	0.269
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	27710	2310	23.28	24.00	1.180	-	-	-0.16	0.000	0.000
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	27710	2310	22.36	23.00	1.159	-	-	0.05	0.000	0.000
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	27710	2310	23.28	24.00	1.180	-	-	0.08	0.000	0.000
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	27710	2310	22.36	23.00	1.159	-	-	-0.18	0.000	0.000
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	27710	2310	23.28	24.00	1.180	-	-	-0.03	0.053	0.063
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	27710	2310	22.36	23.00	1.159	-	-	-0.04	0.043	0.050
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	27710	2310	23.28	24.00	1.180	-	-	-0.09	0.000	0.000
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	27710	2310	22.36	23.00	1.159	-	-	0.18	0.000	0.000
16	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	27710	2310	22.63	24.00	1.371	-	-	0.1	0.876	1.201
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Simultaneous	27710	2310	21.32	22.50	1.312	-	-	0.01	0.609	0.799
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Simultaneous	27710	2310	21.32	22.50	1.312	-	-	0.06	0.400	0.525
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Simultaneous	27710	2310	21.32	22.50	1.312	-	-	-0.09	0.177	0.232
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Simultaneous	27710	2310	21.32	22.50	1.312	-	-	-0.08	0.161	0.211
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	27710	2310	21.91	23.00	1.285	-	-	0.09	0.723	0.929
	LTE Band 30	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	27710	2310	21.75	23.00	1.334	-	-	-0.08	0.742	0.989
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	27710	2310	22.63	24.00	1.371	-	-	-0.05	0.569	0.780
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	27710	2310	21.91	23.00	1.285	-	-	-0.03	0.467	0.600
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	27710	2310	22.63	24.00	1.371	-	-	0.17	0.245	0.336
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	27710	2310	21.91	23.00	1.285	-	-	-0.14	0.203	0.261
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	27710	2310	22.63	24.00	1.371	-	-	0.06	0.218	0.299
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	27710	2310	21.91	23.00	1.285	-	-	-0.06	0.183	0.235
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	27710	2310	23.13	24.00	1.222	-	-	-0.12	0.456	0.557
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	DSI 2	27710	2310	22.17	23.00	1.211	-	-	-0.16	0.364	0.441



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	27710	2310	23.13	24.00	1.222	-	-	0.17	0.222	0.271
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	DSI 2	27710	2310	22.17	23.00	1.211	-	-	0.02	0.176	0.213
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	27710	2310	23.13	24.00	1.222	-	-	0	0.373	0.456
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	DSI 2	27710	2310	22.17	23.00	1.211	-	-	0.18	0.295	0.357
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	27710	2310	23.13	24.00	1.222	-	-	-0.11	0.324	0.396
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	DSI 2	27710	2310	22.17	23.00	1.211	-	-	-0.05	0.252	0.305
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	462000	2310	23.35	24.00	1.161	-	-	-0.08	0.000	0.000
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	462000	2310	23.15	24.00	1.216	-	-	0	0.000	0.000
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	462000	2310	23.35	24.00	1.161	-	-	-0.14	0.000	0.000
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	462000	2310	23.15	24.00	1.216	-	-	0.01	0.000	0.000
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	462000	2310	23.35	24.00	1.161	-	-	0.18	0.050	0.058
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	462000	2310	23.15	24.00	1.216	-	-	0.02	0.056	0.068
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	462000	2310	23.35	24.00	1.161	-	-	0.16	0.000	0.000
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	462000	2310	23.15	24.00	1.216	-	-	0.06	0.000	0.000
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	462000	2310	23.40	24.00	1.148	-	-	0.07	0.774	0.889
17	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	462000	2310	23.32	24.00	1.169	-	-	-0.05	0.794	0.929
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Simultaneous	462000	2310	22.36	23.00	1.159	-	-	0.05	0.620	0.718
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Simultaneous	462000	2310	22.36	23.00	1.159	-	-	0.13	0.421	0.488
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Simultaneous	462000	2310	22.36	23.00	1.159	-	-	0.12	0.199	0.231
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Simultaneous	462000	2310	22.36	23.00	1.159	-	-	0.03	0.150	0.174
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	462000	2310	22.37	24.00	1.455	-	-	-0.17	0.608	0.885
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	462000	2310	23.40	24.00	1.148	-	-	0.1	0.510	0.586
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	462000	2310	23.32	24.00	1.169	-	-	0.08	0.528	0.617
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	462000	2310	23.40	24.00	1.148	-	-	0	0.232	0.266
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	462000	2310	23.32	24.00	1.169	-	-	-0.13	0.245	0.287
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	462000	2310	23.40	24.00	1.148	-	-	-0.1	0.181	0.208
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	462000	2310	23.32	24.00	1.169	-	-	-0.07	0.185	0.216
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	462000	2310	23.28	24.00	1.180	-	-	0.09	0.424	0.500
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	462000	2310	23.23	24.00	1.194	-	-	-0.17	0.412	0.492
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 2	462000	2310	23.28	24.00	1.180	-	-	0.01	0.202	0.238
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 2	462000	2310	23.23	24.00	1.194	-	-	0.1	0.200	0.239
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 2	462000	2310	23.28	24.00	1.180	-	-	0.11	0.311	0.367
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 2	462000	2310	23.23	24.00	1.194	-	-	-0.07	0.306	0.365
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 2	462000	2310	23.28	24.00	1.180	-	-	0.18	0.286	0.338
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 2	462000	2310	23.23	24.00	1.194	-	-	0.12	0.259	0.309
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	21100	2535	22.74	24.00	1.337	-	-	0.14	0.060	0.080
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	21100	2535	21.76	23.00	1.330	-	-	-0.03	0.050	0.067
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	21100	2535	22.74	24.00	1.337	-	-	-0.14	0.000	0.000
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	21100	2535	21.76	23.00	1.330	-	-	0.17	0.000	0.000
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	21100	2535	22.74	24.00	1.337	-	-	0.11	0.123	0.164
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	21100	2535	21.76	23.00	1.330	-	-	0.07	0.096	0.128
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	21100	2535	22.74	24.00	1.337	-	-	-0.04	0.000	0.000
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	21100	2535	21.76	23.00	1.330	-	-	-0.18	0.000	0.000
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	18.77	19.00	1.054	-	-	-0.13	0.968	1.021
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	20850	2510	18.65	19.00	1.084	-	-	0	0.905	0.981
18	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	21350	2560	18.53	19.00	1.114	-	-	-0.07	0.994	1.108
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Simultaneous	21350	2560	16.63	17.00	1.089	-	-	0.07	0.635	0.691
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Simultaneous	21350	2560	16.63	17.00	1.089	-	-	0.18	0.412	0.449
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Simultaneous	21350	2560	16.63	17.00	1.089	-	-	0.16	0.229	0.249
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Simultaneous	21350	2560	16.63	17.00	1.089	-	-	-0.1	0.210	0.229
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	18.75	19.00	1.059	-	-	-0.09	0.786	0.833
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	20850	2510	18.61	19.00	1.094	-	-	0.05	0.761	0.833
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	21350	2560	18.49	19.00	1.125	-	-	0.13	0.796	0.895
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	18.58	19.00	1.102	-	-	0	0.809	0.891
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	18.77	19.00	1.054	-	-	-0.12	0.630	0.664



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	18.75	19.00	1.059	-	-	-0.07	0.511	0.541
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	18.77	19.00	1.054	-	-	-0.1	0.355	0.374
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	18.75	19.00	1.059	-	-	-0.05	0.286	0.303
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	18.77	19.00	1.054	-	-	0.16	0.323	0.341
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	18.75	19.00	1.059	-	-	0.14	0.258	0.273
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	23.80	25.00	1.318	-	-	-0.19	0.676	0.891
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	20850	2510	23.67	25.00	1.358	-	-	-0.07	0.757	1.028
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Simultaneous	20850	2510	22.89	24.00	1.291	-	-	-0.07	0.617	0.797
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	Simultaneous	20850	2510	22.89	24.00	1.291	-	-	0.07	0.354	0.457
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	Simultaneous	20850	2510	22.89	24.00	1.291	-	-	0.18	0.340	0.439
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	Simultaneous	20850	2510	22.89	24.00	1.291	-	-	-0.1	0.309	0.399
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	21350	2560	23.78	25.00	1.324	-	-	0.13	0.694	0.919
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	22.79	24.00	1.321	-	-	-0.08	0.545	0.720
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	22.71	24.00	1.346	-	-	0.12	0.542	0.729
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	21100	2535	23.80	25.00	1.318	-	-	0.09	0.432	0.569
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	21100	2535	22.79	24.00	1.321	-	-	-0.02	0.350	0.462
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	21100	2535	23.80	25.00	1.318	-	-	-0.16	0.415	0.547
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	21100	2535	22.79	24.00	1.321	-	-	-0.03	0.340	0.449
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	21100	2535	23.80	25.00	1.318	-	-	-0.06	0.373	0.492
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	21100	2535	22.79	24.00	1.321	-	-	0.08	0.291	0.384
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	23.72	24.00	1.067	62.9	1.006	0.11	0.041	0.044
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	22.68	23.00	1.076	62.9	1.006	-0.13	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	23.72	24.00	1.067	62.9	1.006	0.04	0.037	0.040
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	22.68	23.00	1.076	62.9	1.006	0.17	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	23.72	24.00	1.067	62.9	1.006	-0.1	0.062	0.067
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	22.68	23.00	1.076	62.9	1.006	0.17	0.051	0.055
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	23.72	24.00	1.067	62.9	1.006	-0.15	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	22.68	23.00	1.076	62.9	1.006	0.18	0.000	0.000
19	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	21.09	22.00	1.233	62.9	1.006	0.15	0.992	1.231
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Simultaneous	40620	2593	19.16	20.00	1.213	62.9	1.006	-0.05	0.622	0.759
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Simultaneous	40620	2593	19.16	20.00	1.213	62.9	1.006	0.19	0.412	0.503
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Simultaneous	40620	2593	19.16	20.00	1.213	62.9	1.006	0.07	0.249	0.304
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Simultaneous	40620	2593	19.16	20.00	1.213	62.9	1.006	-0.18	0.225	0.275
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	39750	2506	20.89	22.00	1.291	62.9	1.006	-0.1	0.834	1.083
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	40185	2549.5	20.98	22.00	1.265	62.9	1.006	0.14	0.962	1.224
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	41055	2636.5	21.07	22.00	1.239	62.9	1.006	-0.16	0.886	1.104
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	41490	2680	20.88	22.00	1.294	62.9	1.006	-0.02	0.786	1.023
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	21.08	22.00	1.236	62.9	1.006	0.1	0.807	1.003
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	39750	2506	20.90	22.00	1.288	62.9	1.006	-0.05	0.712	0.923
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	40185	2549.5	20.98	22.00	1.265	62.9	1.006	-0.04	0.818	1.041
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	41055	2636.5	21.02	22.00	1.253	62.9	1.006	0.01	0.712	0.898
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	41490	2680	20.82	22.00	1.312	62.9	1.006	-0.09	0.623	0.822
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	20.86	22.00	1.300	62.9	1.006	0.03	0.813	1.063
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	21.09	22.00	1.233	62.9	1.006	-0.11	0.649	0.805
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	20.89	22.00	1.291	62.9	1.006	0.15	0.565	0.734
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	20.98	22.00	1.265	62.9	1.006	-0.15	0.654	0.832
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	21.07	22.00	1.239	62.9	1.006	0.06	0.596	0.743
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	20.88	22.00	1.294	62.9	1.006	0.15	0.528	0.687
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	21.08	22.00	1.236	62.9	1.006	-0.1	0.648	0.806
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	20.90	22.00	1.288	62.9	1.006	0.13	0.485	0.629
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	20.98	22.00	1.265	62.9	1.006	-0.02	0.538	0.685
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	21.02	22.00	1.253	62.9	1.006	0	0.472	0.595
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	20.82	22.00	1.312	62.9	1.006	0.1	0.424	0.560
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	20.86	22.00	1.300	62.9	1.006	0.13	0.524	0.685
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	21.09	22.00	1.233	62.9	1.006	-0.04	0.387	0.480
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	21.08	22.00	1.236	62.9	1.006	-0.15	0.311	0.387



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	21.09	22.00	1.233	62.9	1.006	-0.19	0.346	0.429
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	21.08	22.00	1.236	62.9	1.006	-0.12	0.280	0.348
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	23.97	25.00	1.268	62.9	1.006	0.03	0.282	0.360
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	39750	2506	23.91	25.00	1.285	62.9	1.006	-0.13	0.340	0.440
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	40185	2549.5	23.85	25.00	1.303	62.9	1.006	-0.09	0.286	0.375
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	41055	2636.5	23.85	25.00	1.303	62.9	1.006	-0.18	0.294	0.385
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	41490	2680	23.94	25.00	1.276	62.9	1.006	0.12	0.297	0.381
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	23.01	24.00	1.256	62.9	1.006	0.11	0.235	0.297
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	22.95	24.00	1.274	62.9	1.006	0.11	0.237	0.304
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	40620	2593	23.97	25.00	1.268	62.9	1.006	-0.06	0.158	0.201
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	40620	2593	23.01	24.00	1.256	62.9	1.006	-0.02	0.133	0.168
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	40620	2593	23.97	25.00	1.268	62.9	1.006	0.02	0.133	0.170
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	40620	2593	23.01	24.00	1.256	62.9	1.006	0.12	0.107	0.135
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	40620	2593	23.97	25.00	1.268	62.9	1.006	0.02	0.131	0.167
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	40620	2593	23.01	24.00	1.256	62.9	1.006	-0.11	0.104	0.131
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	507000	2535	23.53	24.00	1.114	-	-	-0.05	0.057	0.064
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	507000	2535	23.41	24.00	1.146	-	-	0.03	0.048	0.055
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	507000	2535	23.53	24.00	1.114	-	-	-0.06	0.038	0.042
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	507000	2535	23.41	24.00	1.146	-	-	0.01	0.000	0.000
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	507000	2535	23.53	24.00	1.114	-	-	-0.03	0.128	0.143
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	507000	2535	23.41	24.00	1.146	-	-	0.03	0.107	0.123
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	507000	2535	23.53	24.00	1.114	-	-	-0.17	0.000	0.000
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	507000	2535	23.41	24.00	1.146	-	-	0.02	0.000	0.000
20	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	19.05	19.50	1.109	-	-	0.03	0.951	1.055
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Simultaneous	507000	2535	17.14	17.50	1.086	-	-	-0.03	0.623	0.677
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Simultaneous	507000	2535	17.14	17.50	1.086	-	-	0.03	0.420	0.456
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Simultaneous	507000	2535	17.14	17.50	1.086	-	-	-0.15	0.249	0.271
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Simultaneous	507000	2535	17.14	17.50	1.086	-	-	-0.15	0.511	0.555
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	502000	2510	18.87	19.50	1.156	-	-	0.16	0.907	1.049
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	512000	2560	18.86	19.50	1.159	-	-	0.19	0.904	1.048
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	19.01	19.50	1.119	-	-	0.13	0.916	1.025
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	502000	2510	18.88	19.50	1.153	-	-	-0.03	0.914	1.054
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	512000	2560	18.88	19.50	1.153	-	-	0.12	0.882	1.017
	FR1 n7	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	18.96	19.50	1.132	-	-	0.19	0.927	1.050
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	19.05	19.50	1.109	-	-	-0.09	0.629	0.698
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	19.01	19.50	1.119	-	-	-0.18	0.622	0.696
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	19.05	19.50	1.109	-	-	-0.15	0.377	0.418
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	19.01	19.50	1.119	-	-	0.02	0.367	0.411
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	19.05	19.50	1.109	-	-	-0.07	0.314	0.348
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	19.01	19.50	1.119	-	-	0.13	0.307	0.344
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	507000	2535	23.33	24.00	1.167	-	-	0.17	0.208	0.243
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 2	507000	2535	23.20	24.00	1.202	-	-	0.06	0.201	0.242
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 2	507000	2535	23.33	24.00	1.167	-	-	0.01	0.101	0.118
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 2	507000	2535	23.20	24.00	1.202	-	-	-0.11	0.098	0.118
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 2	507000	2535	23.33	24.00	1.167	-	-	0.03	0.110	0.128
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 2	507000	2535	23.20	24.00	1.202	-	-	0.09	0.102	0.123
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 2	507000	2535	23.33	24.00	1.167	-	-	-0.02	0.082	0.096
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 2	507000	2535	23.20	24.00	1.202	-	-	0.15	0.082	0.099
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	518598	2592.99	23.15	24.00	1.216	-	-	0.06	0.048	0.058
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	518598	2592.99	22.95	24.00	1.274	-	-	0.15	0.071	0.090
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	518598	2592.99	23.15	24.00	1.216	-	-	-0.08	0.031	0.038
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	518598	2592.99	22.95	24.00	1.274	-	-	-0.05	0.000	0.000
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	518598	2592.99	23.15	24.00	1.216	-	-	-0.18	0.083	0.101
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	518598	2592.99	22.95	24.00	1.274	-	-	-0.08	0.124	0.158
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	518598	2592.99	23.15	24.00	1.216	-	-	0.18	0.000	0.000
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	518598	2592.99	22.95	24.00	1.274	-	-	0.1	0.000	0.000



FCC SAR Test Report

Report No. : FA4N0543

	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	518598	2592.99	26.49	27.00	1.125	50	1.000	-0.08	0.131	0.147
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	19.85	20.50	1.161	-	-	0.06	0.997	1.158
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	19.80	20.50	1.175	-	-	-0.09	0.984	1.156
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	19.66	20.50	1.213	-	-	0	0.808	0.980
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	19.85	20.50	1.161	-	-	0.11	0.690	0.801
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	19.80	20.50	1.175	-	-	0.14	0.676	0.794
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	19.66	20.50	1.213	-	-	-0.15	0.536	0.650
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	518598	2592.99	19.85	20.50	1.161	-	-	0.02	0.391	0.454
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	518598	2592.99	19.80	20.50	1.175	-	-	-0.03	0.410	0.482
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	518598	2592.99	19.85	20.50	1.161	-	-	-0.02	0.344	0.400
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	518598	2592.99	19.80	20.50	1.175	-	-	0.08	0.361	0.424
21	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	22.83	23.50	1.167	50	1.000	0.09	1.010	1.178
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	Simultaneous	518598	2592.99	20.92	21.50	1.143	50	1.000	0.01	0.631	0.721
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	Simultaneous	518598	2592.99	20.92	21.50	1.143	50	1.000	-0.08	0.443	0.506
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	Simultaneous	518598	2592.99	20.92	21.50	1.143	50	1.000	-0.04	0.250	0.286
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	Simultaneous	518598	2592.99	20.92	21.50	1.143	50	1.000	-0.08	0.221	0.253
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	518598	2592.99	23.82	25.00	1.312	-	-	0.02	0.167	0.219
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	518598	2592.99	23.74	25.00	1.337	-	-	0.18	0.186	0.249
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	518598	2592.99	23.82	25.00	1.312	-	-	0.03	0.097	0.127
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	518598	2592.99	23.74	25.00	1.337	-	-	0.01	0.100	0.134
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	518598	2592.99	23.82	25.00	1.312	-	-	0.04	0.087	0.114
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	518598	2592.99	23.74	25.00	1.337	-	-	-0.16	0.087	0.116
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	518598	2592.99	23.82	25.00	1.312	-	-	-0.12	0.087	0.114
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	518598	2592.99	23.74	25.00	1.337	-	-	-0.08	0.072	0.096
	FR1 n41-HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	518598	2592.99	26.58	27.00	1.102	50	1.000	0.08	0.191	0.210
3500MHz																				
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	42590	3500	24.83	26.00	1.309	62.9	1.006	-0.03	0.456	0.601
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	42190	3460	24.69	26.00	1.352	62.9	1.006	0.02	0.454	0.618
22	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	42990	3540	24.47	26.00	1.422	62.9	1.006	0.01	0.462	0.661
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 2	42590	3500	23.80	25.00	1.318	62.9	1.006	0.02	0.368	0.488
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	DSI 2	42590	3500	23.85	25.00	1.303	62.9	1.006	0.11	0.366	0.480
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 2	42590	3500	24.83	26.00	1.309	62.9	1.006	-0.17	0.354	0.466
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 2	42590	3500	23.80	25.00	1.318	62.9	1.006	-0.04	0.290	0.385
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 2	42590	3500	24.83	26.00	1.309	62.9	1.006	-0.17	0.346	0.456
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 2	42590	3500	23.80	25.00	1.318	62.9	1.006	-0.07	0.267	0.354
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 2	42590	3500	24.83	26.00	1.309	62.9	1.006	0.04	0.337	0.444
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 2	42590	3500	23.80	25.00	1.318	62.9	1.006	0.01	0.273	0.362
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 2	42590	3500	21.85	22.00	1.035	62.9	1.006	-0.06	0.067	0.070
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 2	42590	3500	20.94	22.00	1.276	62.9	1.006	0.16	0.052	0.067
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 2	42590	3500	21.85	22.00	1.035	62.9	1.006	0.1	0.037	0.039
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 2	42590	3500	20.94	22.00	1.276	62.9	1.006	0.03	0.050	0.064
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 2	42590	3500	21.85	22.00	1.035	62.9	1.006	-0.03	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 2	42590	3500	20.94	22.00	1.276	62.9	1.006	0.09	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 2	42590	3500	21.85	22.00	1.035	62.9	1.006	-0.13	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 2	42590	3500	20.94	22.00	1.276	62.9	1.006	-0.17	0.030	0.039
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 2	42590	3500	25.57	26.00	1.104	62.9	1.006	0.1	0.062	0.069
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 2	42590	3500	24.75	25.00	1.059	62.9	1.006	0.17	0.066	0.070
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 2	42590	3500	25.57	26.00	1.104	62.9	1.006	-0.06	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 2	42590	3500	24.75	25.00	1.059	62.9	1.006	0.07	0.000	0.000



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 2	42590	3500	25.57	26.00	1.104	62.9	1.006	0.11	0.045	0.050
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 2	42590	3500	24.75	25.00	1.059	62.9	1.006	-0.18	0.061	0.065
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 2	42590	3500	25.57	26.00	1.104	62.9	1.006	0.11	0.048	0.053
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 2	42590	3500	24.75	25.00	1.059	62.9	1.006	-0.01	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 2	42590	3500	23.10	24.00	1.230	62.9	1.006	0.04	0.133	0.165
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 2	42590	3500	22.05	23.00	1.245	62.9	1.006	0.16	0.110	0.138
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 2	42590	3500	23.10	24.00	1.230	62.9	1.006	0.17	0.093	0.115
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 2	42590	3500	22.05	23.00	1.245	62.9	1.006	0.06	0.075	0.094
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 2	42590	3500	23.10	24.00	1.230	62.9	1.006	-0.18	0.359	0.444
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 2	42590	3500	22.05	23.00	1.245	62.9	1.006	0.06	0.286	0.358
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 2	42590	3500	23.10	24.00	1.230	62.9	1.006	0.18	0.138	0.171
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 2	42590	3500	22.05	23.00	1.245	62.9	1.006	-0.19	0.107	0.134
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	656000	3840	23.13	24.00	1.222	-	-	-0.02	0.432	0.528
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	656000	3840	22.85	24.00	1.303	-	-	-0.09	0.238	0.310
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	656000	3840	23.13	24.00	1.222	-	-	-0.17	0.223	0.272
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	656000	3840	22.85	24.00	1.303	-	-	-0.09	0.238	0.310
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	656000	3840	23.13	24.00	1.222	-	-	0.18	0.211	0.258
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	656000	3840	22.85	24.00	1.303	-	-	-0.07	0.158	0.206
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	656000	3840	23.13	24.00	1.222	-	-	0.06	0.234	0.286
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	656000	3840	22.85	24.00	1.303	-	-	-0.05	0.135	0.176
	FR1 n77 Part 27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	656000	3840	26.44	27.00	1.138	50	1.000	-0.02	0.443	0.504
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	22.72	24.00	1.343	-	-	-0.07	0.395	0.530
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	22.68	24.00	1.355	-	-	-0.11	0.384	0.520
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	22.72	24.00	1.343	-	-	-0.11	0.302	0.406
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 2	633334	3500.01	22.68	24.00	1.355	-	-	-0.03	0.358	0.485
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	22.72	24.00	1.343	-	-	0.04	0.275	0.369
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 2	633334	3500.01	22.68	24.00	1.355	-	-	-0.1	0.279	0.378
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	22.72	24.00	1.343	-	-	0.07	0.261	0.350
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 2	633334	3500.01	22.68	24.00	1.355	-	-	0.03	0.277	0.375
	FR1 n77 Part 27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 2	633334	3500.01	25.74	27.00	1.337	50	1.000	0.01	0.405	0.541
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	23.44	24.00	1.138	-	-	0.01	0.053	0.060
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	23.31	24.00	1.172	-	-	-0.04	0.066	0.077
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	656000	3840	23.44	24.00	1.138	-	-	-0.19	0.000	0.000
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	656000	3840	23.31	24.00	1.172	-	-	-0.09	0.041	0.048
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	656000	3840	23.44	24.00	1.138	-	-	-0.13	0.017	0.019
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	656000	3840	23.31	24.00	1.172	-	-	0.06	0.045	0.053
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	656000	3840	23.44	24.00	1.138	-	-	0.18	0.034	0.039
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	656000	3840	23.31	24.00	1.172	-	-	-0.07	0.048	0.056
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	26.32	27.00	1.169	50	1.000	0.01	0.069	0.081
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	22.96	24.00	1.271	-	-	0.14	0.070	0.089
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	22.83	24.00	1.309	-	-	-0.14	0.056	0.073
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	633334	3500.01	22.96	24.00	1.271	-	-	0.03	0.000	0.000
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	633334	3500.01	22.83	24.00	1.309	-	-	0.04	0.036	0.047
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	633334	3500.01	22.96	24.00	1.271	-	-	0.04	0.038	0.048
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	633334	3500.01	22.83	24.00	1.309	-	-	0.07	0.000	0.000
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	633334	3500.01	22.96	24.00	1.271	-	-	0.13	0.000	0.000
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	633334	3500.01	22.83	24.00	1.309	-	-	-0.15	0.000	0.000
	FR1 n77 Part 27Q HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	26.01	27.00	1.256	50	1.000	0.04	0.077	0.097
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	656000	3840	24.69	25.00	1.074	-	-	0.15	0.063	0.068
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	656000	3840	24.52	25.00	1.117	-	-	-0.11	0.071	0.079
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	656000	3840	24.69	25.00	1.074	-	-	0.18	0.119	0.128



FCC SAR Test Report

Report No. : FA4N0543

	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	656000	3840	24.52	25.00	1.117	-	-	0.18	0.167	0.187
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	656000	3840	24.69	25.00	1.074	-	-	0.14	0.081	0.087
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	656000	3840	24.52	25.00	1.117	-	-	0.01	0.078	0.087
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	656000	3840	24.69	25.00	1.074	-	-	0.06	0.068	0.073
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	656000	3840	24.52	25.00	1.117	-	-	-0.02	0.072	0.080
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	656000	3840	26.38	27.00	1.153	50	1.000	0.08	0.134	0.155
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	633334	3500.01	24.06	25.00	1.242	-	-	0.05	0.035	0.043
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	633334	3500.01	23.92	25.00	1.282	-	-	0.04	0.071	0.091
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	633334	3500.01	24.06	25.00	1.242	-	-	0.13	0.029	0.036
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	633334	3500.01	23.92	25.00	1.282	-	-	-0.05	0.000	0.000
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	633334	3500.01	24.06	25.00	1.242	-	-	-0.17	0.038	0.047
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	633334	3500.01	23.92	25.00	1.282	-	-	0	0.038	0.049
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	633334	3500.01	24.06	25.00	1.242	-	-	-0.17	0.000	0.000
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	633334	3500.01	23.92	25.00	1.282	-	-	-0.05	0.000	0.000
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	633334	3500.01	25.77	27.00	1.327	50	1.000	0.01	0.054	0.072
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	656000	3840	22.20	23.00	1.202	-	-	0.18	0.290	0.349
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	656000	3840	22.13	23.00	1.222	-	-	-0.08	0.317	0.387
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	656000	3840	22.20	23.00	1.202	-	-	-0.05	0.255	0.307
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	656000	3840	22.13	23.00	1.222	-	-	-0.07	0.306	0.374
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	656000	3840	22.20	23.00	1.202	-	-	-0.06	0.953	1.146
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	656000	3840	22.13	23.00	1.222	-	-	0.06	0.978	1.195
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	656000	3840	22.11	23.00	1.227	-	-	0.04	0.750	0.921
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	656000	3840	22.20	23.00	1.202	-	-	0.08	0.327	0.393
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	656000	3840	22.13	23.00	1.222	-	-	-0.09	0.376	0.459
23	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	656000	3840	25.08	26.00	1.236	50	1.000	0.06	0.985	1.217
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	Simultaneous	656000	3840	21.64	22.50	1.219	50	1.000	0.12	0.157	0.191
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	Simultaneous	656000	3840	21.64	22.50	1.219	50	1.000	0.08	0.151	0.184
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Simultaneous	656000	3840	21.64	22.50	1.219	50	1.000	-0.17	0.433	0.528
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	Simultaneous	656000	3840	21.64	22.50	1.219	50	1.000	-0.03	0.193	0.235
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	633334	3500.01	21.89	23.00	1.291	-	-	0.03	0.190	0.245
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	633334	3500.01	21.85	23.00	1.303	-	-	0.19	0.201	0.262
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	633334	3500.01	21.89	23.00	1.291	-	-	0.16	0.155	0.200
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	633334	3500.01	21.85	23.00	1.303	-	-	-0.1	0.146	0.190
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	633334	3500.01	21.89	23.00	1.291	-	-	0.12	0.553	0.714
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	633334	3500.01	21.85	23.00	1.303	-	-	0.02	0.573	0.747
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	633334	3500.01	21.89	23.00	1.291	-	-	-0.04	0.227	0.293
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	633334	3500.01	21.85	23.00	1.303	-	-	0.05	0.200	0.261
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	633334	3500.01	24.85	26.00	1.303	50	1.000	-0.12	0.582	0.758
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	Simultaneous	633334	3500.01	21.44	22.50	1.276	50	1.000	0.14	0.103	0.131
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	Simultaneous	633334	3500.01	21.44	22.50	1.276	50	1.000	0.11	0.082	0.105
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Simultaneous	633334	3500.01	21.44	22.50	1.276	50	1.000	-0.05	0.288	0.368
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	Simultaneous	633334	3500.01	21.44	22.50	1.276	50	1.000	0.18	0.117	0.149



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 8+9(9)	Full Power	1	2412	19.18	21.00	1.521	100	1.000	0.08	0.371	0.564
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 8+9(9)	Full Power	1	2412	19.18	21.00	1.521	100	1.000	0.01	0.281	0.427
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8+9(9)	Full Power	1	2412	19.18	21.00	1.521	100	1.000	0.03	0.605	0.920
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8+9(9)	Full Power	1	2412	19.18	21.00	1.521	100	1.000	-0.08	0.437	0.664
24	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8+9(9)	Full Power	11	2462	19.15	21.00	1.531	100	1.000	0.06	0.649	0.994
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 8+9(9)	Simultaneous	11	2462	15.21	17.00	1.510	100	1.000	0.11	0.133	0.201
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 8+9(9)	Simultaneous	11	2462	15.21	17.00	1.510	100	1.000	-0.05	0.111	0.168
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8+9(9)	Simultaneous	11	2462	15.21	17.00	1.510	100	1.000	-0.07	0.238	0.359
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8+9(9)	Simultaneous	11	2462	15.21	17.00	1.510	100	1.000	0.18	0.172	0.260
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 8	Full Power	39	2441	7.78	9.50	1.485	76.67	1.086	0.01	0.015	0.024
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 8	Full Power	39	2441	7.78	9.50	1.485	76.67	1.086	-0.15	0.006	0.010
25	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	Full Power	39	2441	7.78	9.50	1.485	76.67	1.086	-0.01	0.028	0.045
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	Full Power	39	2441	7.78	9.50	1.485	76.67	1.086	0.07	0.015	0.024
5000MHz																
	WLAN 5.3GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 8+9(9)	Full Power	64	5320	18.69	20.50	1.517	99.32	1.007	-0.08	0.370	0.565
	WLAN 5.3GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 8+9(9)	Full Power	64	5320	18.69	20.50	1.517	99.32	1.007	0.1	0.393	0.600
26	WLAN 5.3GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 8+9(9)	Full Power	64	5320	18.69	20.50	1.517	99.32	1.007	0.02	0.687	1.050
	WLAN 5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 8+9(9)	Full Power	64	5320	18.69	20.50	1.517	99.32	1.007	-0.18	0.505	0.772
	WLAN 5.3GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 8+9(9)	Full Power	60	5300	18.16	20.00	1.528	99.32	1.007	0.1	0.621	0.955
	WLAN 5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 8+9(8)	Simultaneous	50	5250	13.81	15.50	1.476	100	1.000	-0.05	0.123	0.182
	WLAN 5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 8+9(8)	Simultaneous	50	5250	13.81	15.50	1.476	100	1.000	0.01	0.141	0.208
	WLAN 5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+9(8)	Simultaneous	50	5250	13.81	15.50	1.476	100	1.000	0.02	0.243	0.359
	WLAN 5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 8+9(8)	Simultaneous	50	5250	13.81	15.50	1.476	100	1.000	0.10	0.183	0.270
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 8+9(9)	Standalone	106	5530	16.73	18.50	1.503	100	1.000	0.12	0.372	0.559
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 8+9(9)	Standalone	106	5530	16.73	18.50	1.503	100	1.000	0.08	0.363	0.546
27	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8+9(9)	Standalone	106	5530	16.73	18.50	1.503	100	1.000	-0.01	0.744	1.118
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8+9(9)	Standalone	106	5530	16.73	18.50	1.503	100	1.000	-0.03	0.540	0.812
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 8+9(9)	Simultaneous	106	5530	11.75	13.50	1.496	100	1.000	-0.17	0.117	0.175
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 8+9(9)	Simultaneous	106	5530	11.75	13.50	1.496	100	1.000	0.04	0.121	0.181
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8+9(9)	Simultaneous	106	5530	11.75	13.50	1.496	100	1.000	-0.05	0.234	0.350
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8+9(9)	Simultaneous	106	5530	11.75	13.50	1.496	100	1.000	-0.01	0.176	0.263
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 8+9(9)	Standalone	155	5775	17.38	19.00	1.452	100	1.000	0.08	0.395	0.574
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 8+9(9)	Standalone	155	5775	17.38	19.00	1.452	100	1.000	0.01	0.413	0.600
28	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8+9(9)	Standalone	155	5775	17.38	19.00	1.452	100	1.000	0.04	0.767	1.114
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8+9(9)	Standalone	155	5775	17.38	19.00	1.452	100	1.000	0.03	0.583	0.847
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 8+9(9)	Simultaneous	155	5775	12.38	14.00	1.452	100	1.000	-0.08	0.122	0.177
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 8+9(9)	Simultaneous	155	5775	12.38	14.00	1.452	100	1.000	0.05	0.140	0.203
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8+9(9)	Simultaneous	155	5775	12.38	14.00	1.452	100	1.000	0.07	0.241	0.350
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8+9(9)	Simultaneous	155	5775	12.38	14.00	1.452	100	1.000	0.06	0.189	0.274



15.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
29	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 7	133322	683	23.58	24.50	1.236	-	-	0.17	0.074	0.091
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 7	133322	683	22.46	23.50	1.271	-	-	0.18	0.074	0.094
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	133322	683	23.58	24.50	1.236	-	-	-0.03	0.147	0.182
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 7	133322	683	22.46	23.50	1.271	-	-	-0.04	0.079	0.100
	LTE Band 71	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 7	133322	683	23.58	24.50	1.236	-	-	-0.08	0.125	0.154
	LTE Band 71	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 7	133322	683	22.46	23.50	1.271	-	-	-0.13	0.096	0.122
	LTE Band 71	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 7	133322	683	23.58	24.50	1.236	-	-	-0.13	0.046	0.057
	LTE Band 71	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 7	133322	683	22.46	23.50	1.271	-	-	0.06	0.037	0.047
	LTE Band 71	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 7	133322	683	23.58	24.50	1.236	-	-	-0.03	0.106	0.131
	LTE Band 71	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 7	133322	683	22.46	23.50	1.271	-	-	-0.03	0.078	0.099
30	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 7	23095	707.5	24.33	25.50	1.309	-	-	-0.03	0.169	0.221
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 7	23095	707.5	23.41	24.50	1.285	-	-	0.14	0.148	0.190
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	23095	707.5	24.33	25.50	1.309	-	-	0.02	0.258	0.338
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 7	23095	707.5	23.41	24.50	1.285	-	-	0.11	0.251	0.323
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 7	23095	707.5	24.33	25.50	1.309	-	-	-0.05	0.224	0.293
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 7	23095	707.5	23.41	24.50	1.285	-	-	0.18	0.191	0.245
	LTE Band 12	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 7	23095	707.5	24.33	25.50	1.309	-	-	0.14	0.086	0.113
	LTE Band 12	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	DSI 7	23095	707.5	23.41	24.50	1.285	-	-	-0.17	0.073	0.094
	LTE Band 12	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 7	23095	707.5	24.33	25.50	1.309	-	-	0.17	0.226	0.296
	LTE Band 12	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	DSI 7	23095	707.5	23.41	24.50	1.285	-	-	-0.05	0.191	0.245
31	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 7	23230	782	24.06	25.50	1.393	-	-	0.08	0.133	0.185
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 7	23230	782	23.11	24.50	1.377	-	-	0.01	0.106	0.146
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	23230	782	24.06	25.50	1.393	-	-	0.01	0.247	0.344
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 7	23230	782	23.11	24.50	1.377	-	-	0.03	0.198	0.273
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 7	23230	782	24.06	25.50	1.393	-	-	-0.08	0.128	0.178
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 7	23230	782	23.11	24.50	1.377	-	-	-0.08	0.096	0.132
	LTE Band 13	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 7	23230	782	24.06	25.50	1.393	-	-	0.1	0.071	0.099
	LTE Band 13	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	DSI 7	23230	782	23.11	24.50	1.377	-	-	-0.18	0.054	0.074
	LTE Band 13	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 7	23230	782	24.06	25.50	1.393	-	-	0.1	0.176	0.245
	LTE Band 13	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	DSI 7	23230	782	23.11	24.50	1.377	-	-	0.12	0.137	0.189
32	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	136100	680.5	23.59	24.50	1.233	-	-	0.05	0.128	0.158
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	136100	680.5	23.57	24.50	1.239	-	-	0.06	0.141	0.175
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	136100	680.5	23.59	24.50	1.233	-	-	-0.09	0.167	0.206
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	136100	680.5	23.57	24.50	1.239	-	-	0.05	0.181	0.224
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	136100	680.5	23.59	24.50	1.233	-	-	0.13	0.218	0.269
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	136100	680.5	23.57	24.50	1.239	-	-	-0.01	0.230	0.285
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	136100	680.5	23.59	24.50	1.233	-	-	0.12	0.084	0.104
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	136100	680.5	23.57	24.50	1.239	-	-	0.03	0.091	0.113
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	136100	680.5	23.59	24.50	1.233	-	-	0.18	0.077	0.095
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	136100	680.5	23.57	24.50	1.239	-	-	0.16	0.081	0.100
33	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	141500	707.5	23.81	24.50	1.172	-	-	0.03	0.132	0.155
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	141500	707.5	23.68	24.50	1.208	-	-	-0.15	0.120	0.145
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	141500	707.5	23.81	24.50	1.172	-	-	-0.01	0.221	0.259
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	141500	707.5	23.68	24.50	1.208	-	-	-0.15	0.186	0.225
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	141500	707.5	23.81	24.50	1.172	-	-	0.11	0.223	0.261
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	141500	707.5	23.68	24.50	1.208	-	-	-0.03	0.227	0.274
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	141500	707.5	23.81	24.50	1.172	-	-	-0.17	0.103	0.121
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	141500	707.5	23.68	24.50	1.208	-	-	-0.08	0.107	0.129
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	141500	707.5	23.81	24.50	1.172	-	-	-0.04	0.113	0.132



FCC SAR Test Report

Report No. : FA4N0543

	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	141500	707.5	23.68	24.50	1.208	-	-	-0.08	0.119	0.144
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	156400	782	23.68	24.50	1.208	-	-	-0.1	0.156	0.188
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	156400	782	23.65	24.50	1.216	-	-	0.07	0.150	0.182
34	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	156400	782	23.68	24.50	1.208	-	-	0.02	0.207	0.250
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	156400	782	23.65	24.50	1.216	-	-	-0.1	0.201	0.244
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	156400	782	23.68	24.50	1.208	-	-	0.01	0.160	0.193
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	156400	782	23.65	24.50	1.216	-	-	-0.15	0.154	0.187
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	156400	782	23.68	24.50	1.208	-	-	0.19	0.107	0.129
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	156400	782	23.65	24.50	1.216	-	-	0.07	0.098	0.119
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	156400	782	23.68	24.50	1.208	-	-	0.01	0.161	0.194
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	156400	782	23.65	24.50	1.216	-	-	-0.18	0.156	0.190
835MHz																				
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 7	4182	836.4	23.96	24.50	1.132	-	-	0.1	0.252	0.285
35	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 7	4182	836.4	23.96	24.50	1.132	-	-	0.02	0.421	0.477
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 7	4182	836.4	23.96	24.50	1.132	-	-	-0.17	0.145	0.164
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	DSI 7	4182	836.4	23.96	24.50	1.132	-	-	0.04	0.125	0.142
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	DSI 7	4182	836.4	23.96	24.50	1.132	-	-	-0.01	0.325	0.368
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 7	4182	836.4	23.96	24.50	1.132	-	-	-0.08	0.000	0.000
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 7	26865	831.5	23.58	24.50	1.236	-	-	-0.17	0.183	0.226
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	DSI 7	26865	831.5	22.61	23.50	1.227	-	-	0.04	0.149	0.183
36	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	26865	831.5	23.58	24.50	1.236	-	-	0.02	0.375	0.463
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	DSI 7	26865	831.5	22.61	23.50	1.227	-	-	-0.01	0.312	0.383
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 7	26865	831.5	23.58	24.50	1.236	-	-	-0.08	0.120	0.148
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	DSI 7	26865	831.5	22.61	23.50	1.227	-	-	0.05	0.085	0.104
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 7	26865	831.5	23.58	24.50	1.236	-	-	0.06	0.000	0.000
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 1	DSI 7	26865	831.5	22.61	23.50	1.227	-	-	-0.09	0.000	0.000
	LTE Band 26	15M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 7	26865	831.5	23.58	24.50	1.236	-	-	-0.08	0.232	0.287
	LTE Band 26	15M	QPSK	36	0	-	Top Side	10mm	Ant 1	DSI 7	26865	831.5	22.61	23.50	1.227	-	-	0.13	0.193	0.237
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	166300	831.5	23.66	24.50	1.213	-	-	0.1	0.144	0.175
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	166300	831.5	23.62	24.50	1.225	-	-	-0.18	0.166	0.203
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	166300	831.5	23.66	24.50	1.213	-	-	0.1	0.253	0.307
37	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	166300	831.5	23.62	24.50	1.225	-	-	0.01	0.328	0.402
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	166300	831.5	23.66	24.50	1.213	-	-	0.12	0.077	0.093
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	166300	831.5	23.62	24.50	1.225	-	-	0.08	0.081	0.099
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	166300	831.5	23.66	24.50	1.213	-	-	-0.17	0.000	0.000
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	166300	831.5	23.62	24.50	1.225	-	-	-0.03	0.073	0.089
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	166300	831.5	23.66	24.50	1.213	-	-	0.14	0.192	0.233
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	166300	831.5	23.62	24.50	1.225	-	-	0.11	0.212	0.260
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 7	1413	1732.6	23.71	24.50	1.199	-	-	0.14	0.183	0.220
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 7	1413	1732.6	23.71	24.50	1.199	-	-	0.11	0.678	0.813
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 7	1312	1712.4	23.62	24.50	1.225	-	-	-0.05	0.611	0.748
38	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 7	1513	1752.6	23.66	24.50	1.213	-	-	0.01	0.738	0.895
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	DSI 7	1413	1732.6	23.71	24.50	1.199	-	-	0.18	0.127	0.152
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI 7	1413	1732.6	23.71	24.50	1.199	-	-	0.14	0.043	0.052
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 0	DSI 7	1413	1732.6	23.71	24.50	1.199	-	-	-0.17	0.000	0.000
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 7	1413	1732.6	23.71	24.50	1.199	-	-	0.17	0.489	0.587
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 7	1413	1732.6	23.56	24.50	1.242	-	-	0.1	0.390	0.484
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 7	1413	1732.6	23.56	24.50	1.242	-	-	0.01	0.498	0.618
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 7	1413	1732.6	23.56	24.50	1.242	-	-	-0.17	0.297	0.369
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	DSI 7	1413	1732.6	23.56	24.50	1.242	-	-	0.04	0.116	0.144
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	DSI 7	1413	1732.6	23.56	24.50	1.242	-	-	-0.01	0.399	0.495
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 7	1413	1732.6	23.56	24.50	1.242	-	-	-0.08	0.000	0.000
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 7	132322	1745	23.19	24.00	1.205	-	-	0.08	0.202	0.243
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 7	132322	1745	22.29	23.00	1.178	-	-	0.01	0.162	0.191
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	132322	1745	23.19	24.00	1.205	-	-	0.03	0.693	0.835



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	132072	1720	23.18	24.00	1.208	-	-	-0.08	0.615	0.743
39	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	132572	1770	23.02	24.00	1.253	-	-	0.02	0.817	1.024
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	132322	1745	22.29	23.00	1.178	-	-	-0.08	0.567	0.668
	LTE Band 66	20M	QPSK	100	0	-	Back	10mm	Ant 0	DSI 7	132322	1745	22.17	23.00	1.211	-	-	0.1	0.518	0.627
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 7	132322	1745	23.19	24.00	1.205	-	-	0.12	0.130	0.157
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 7	132322	1745	22.29	23.00	1.178	-	-	0.08	0.106	0.125
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 7	132322	1745	23.19	24.00	1.205	-	-	-0.17	0.028	0.034
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 7	132322	1745	22.29	23.00	1.178	-	-	-0.03	0.024	0.028
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI 7	132322	1745	23.19	24.00	1.205	-	-	0.14	0.019	0.023
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 0	DSI 7	132322	1745	22.29	23.00	1.178	-	-	0.11	0.016	0.019
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	132322	1745	23.19	24.00	1.205	-	-	-0.05	0.540	0.651
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 7	132322	1745	22.29	23.00	1.178	-	-	-0.17	0.450	0.530
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 7	132322	1745	23.59	24.00	1.099	-	-	0.08	0.325	0.357
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 7	132322	1745	22.50	23.00	1.122	-	-	0.01	0.261	0.293
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	132322	1745	23.59	24.00	1.099	-	-	-0.01	0.510	0.560
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 7	132322	1745	22.50	23.00	1.122	-	-	0.03	0.475	0.533
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 7	132322	1745	23.59	24.00	1.099	-	-	-0.08	0.366	0.402
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 7	132322	1745	22.50	23.00	1.122	-	-	-0.08	0.292	0.328
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 7	132322	1745	23.59	24.00	1.099	-	-	0.1	0.063	0.069
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 7	132322	1745	22.50	23.00	1.122	-	-	-0.18	0.053	0.059
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 7	132322	1745	23.59	24.00	1.099	-	-	0.1	0.359	0.395
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 7	132322	1745	22.50	23.00	1.122	-	-	0.12	0.292	0.328
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 7	132322	1745	23.59	24.00	1.099	-	-	0.08	0.000	0.000
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 1	DSI 7	132322	1745	22.50	23.00	1.122	-	-	-0.17	0.000	0.000
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 7	132322	1745	24.33	25.00	1.167	-	-	0.11	0.145	0.169
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 7	132322	1745	23.28	24.00	1.180	-	-	-0.05	0.148	0.175
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 7	132322	1745	24.33	25.00	1.167	-	-	-0.04	0.326	0.380
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 7	132322	1745	23.28	24.00	1.180	-	-	0.18	0.277	0.327
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 7	132322	1745	24.33	25.00	1.167	-	-	0.19	0.449	0.524
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 7	132322	1745	23.28	24.00	1.180	-	-	0.14	0.356	0.420
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 7	132322	1745	24.33	25.00	1.167	-	-	-0.17	0.000	0.000
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 7	132322	1745	23.28	24.00	1.180	-	-	0.17	0.000	0.000
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI 7	132322	1745	24.33	25.00	1.167	-	-	-0.05	0.074	0.086
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	DSI 7	132322	1745	23.28	24.00	1.180	-	-	0.01	0.052	0.061
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 7	132322	1745	24.33	25.00	1.167	-	-	0.1	0.044	0.051
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 7	132322	1745	23.28	24.00	1.180	-	-	-0.17	0.055	0.065
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 7	349000	1745	23.58	24.00	1.102	-	-	0.08	0.266	0.293
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 7	349000	1745	23.45	24.00	1.135	-	-	0.01	0.266	0.302
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	349000	1745	23.58	24.00	1.102	-	-	0.03	0.618	0.681
40	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	349000	1745	23.45	24.00	1.135	-	-	0.05	0.674	0.765
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 7	349000	1745	23.58	24.00	1.102	-	-	0.12	0.162	0.178
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 7	349000	1745	23.45	24.00	1.135	-	-	0.08	0.154	0.175
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 7	349000	1745	23.58	24.00	1.102	-	-	-0.17	0.068	0.075
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 7	349000	1745	23.45	24.00	1.135	-	-	-0.03	0.075	0.085
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 7	349000	1745	23.58	24.00	1.102	-	-	0.14	0.502	0.553
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 7	349000	1745	23.45	24.00	1.135	-	-	0.18	0.492	0.558
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	349000	1745	23.45	24.00	1.135	-	-	-0.05	0.238	0.270
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	349000	1745	23.34	24.00	1.164	-	-	0.01	0.229	0.267
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	349000	1745	23.45	24.00	1.135	-	-	0.01	0.384	0.436
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	349000	1745	23.34	24.00	1.164	-	-	0.1	0.372	0.433
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	349000	1745	23.45	24.00	1.135	-	-	-0.17	0.182	0.207
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	349000	1745	23.34	24.00	1.164	-	-	0.04	0.172	0.200
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	349000	1745	23.45	24.00	1.135	-	-	-0.01	0.075	0.085
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	349000	1745	23.34	24.00	1.164	-	-	-0.08	0.078	0.091
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	349000	1745	23.45	24.00	1.135	-	-	0.05	0.281	0.319
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	349000	1745	23.34	24.00	1.164	-	-	0.06	0.273	0.318



FCC SAR Test Report

Report No. : FA4N0543

	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI 7	349000	1745	23.45	24.00	1.135	-	-	-0.09	0.000	0.000
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI 7	349000	1745	23.34	24.00	1.164	-	-	-0.08	0.000	0.000
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 7	349000	1745	23.84	24.00	1.038	-	-	0.13	0.109	0.113
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 7	349000	1745	23.80	24.00	1.047	-	-	0.12	0.120	0.126
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 7	349000	1745	23.84	24.00	1.038	-	-	0.03	0.272	0.282
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 7	349000	1745	23.80	24.00	1.047	-	-	0.01	0.280	0.293
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 7	349000	1745	23.84	24.00	1.038	-	-	0.18	0.371	0.385
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 7	349000	1745	23.80	24.00	1.047	-	-	0.08	0.389	0.407
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 2	DSI 7	349000	1745	23.84	24.00	1.038	-	-	0.16	0.000	0.000
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 2	DSI 7	349000	1745	23.80	24.00	1.047	-	-	-0.1	0.038	0.040
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI 7	349000	1745	23.84	24.00	1.038	-	-	0.07	0.089	0.092
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI 7	349000	1745	23.80	24.00	1.047	-	-	0.18	0.064	0.067
	FR1 n66	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 7	349000	1745	23.84	24.00	1.038	-	-	-0.1	0.000	0.000
	FR1 n66	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 7	349000	1745	23.80	24.00	1.047	-	-	0.01	0.000	0.000
1900MHz																				
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 7	9400	1880	23.62	24.50	1.225	-	-	0.18	0.180	0.220
41	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 7	9400	1880	23.62	24.50	1.225	-	-	-0.1	0.608	0.745
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	DSI 7	9400	1880	23.62	24.50	1.225	-	-	-0.13	0.075	0.092
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI 7	9400	1880	23.62	24.50	1.225	-	-	-0.13	0.033	0.040
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 0	DSI 7	9400	1880	23.62	24.50	1.225	-	-	0.06	0.000	0.000
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 7	9400	1880	23.62	24.50	1.225	-	-	-0.03	0.362	0.443
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 7	9400	1880	23.42	24.50	1.282	-	-	0.11	0.303	0.389
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 7	9400	1880	23.42	24.50	1.282	-	-	-0.08	0.357	0.458
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 7	9400	1880	23.42	24.50	1.282	-	-	-0.17	0.324	0.415
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	DSI 7	9400	1880	23.42	24.50	1.282	-	-	-0.08	0.124	0.159
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	DSI 7	9400	1880	23.42	24.50	1.282	-	-	-0.04	0.286	0.367
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI 7	9400	1880	23.42	24.50	1.282	-	-	-0.08	0.043	0.055
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 7	26340	1880	22.98	24.00	1.265	-	-	0.08	0.117	0.148
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 7	26340	1880	22.17	23.00	1.211	-	-	0.01	0.093	0.113
42	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	26340	1880	22.98	24.00	1.265	-	-	0.03	0.532	0.673
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	26340	1880	22.17	23.00	1.211	-	-	-0.08	0.396	0.479
	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 7	26340	1880	22.98	24.00	1.265	-	-	0.12	0.066	0.083
	LTE Band 25	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 7	26340	1880	22.17	23.00	1.211	-	-	0.08	0.050	0.061
	LTE Band 25	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 7	26340	1880	22.98	24.00	1.265	-	-	-0.17	0.018	0.023
	LTE Band 25	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 7	26340	1880	22.17	23.00	1.211	-	-	-0.03	0.015	0.018
	LTE Band 25	20M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI 7	26340	1880	22.98	24.00	1.265	-	-	0.14	0.000	0.000
	LTE Band 25	20M	QPSK	50	0	-	Top Side	10mm	Ant 0	DSI 7	26340	1880	22.17	23.00	1.211	-	-	0.11	0.000	0.000
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	26340	1880	22.98	24.00	1.265	-	-	-0.05	0.388	0.491
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 7	26340	1880	22.17	23.00	1.211	-	-	-0.17	0.292	0.353
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 7	26340	1880	23.35	24.00	1.161	-	-	0.07	0.310	0.360
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 7	26340	1880	22.43	23.00	1.140	-	-	0.18	0.250	0.285
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	26340	1880	23.35	24.00	1.161	-	-	0.05	0.432	0.502
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 7	26340	1880	22.43	23.00	1.140	-	-	-0.1	0.405	0.462
	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 7	26340	1880	23.35	24.00	1.161	-	-	0.01	0.236	0.274
	LTE Band 25	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 7	26340	1880	22.43	23.00	1.140	-	-	-0.15	0.195	0.222
	LTE Band 25	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 7	26340	1880	23.35	24.00	1.161	-	-	0.19	0.111	0.129
	LTE Band 25	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 7	26340	1880	22.43	23.00	1.140	-	-	0.07	0.088	0.100
	LTE Band 25	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 7	26340	1880	23.35	24.00	1.161	-	-	-0.18	0.333	0.387
	LTE Band 25	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 7	26340	1880	22.43	23.00	1.140	-	-	0.03	0.259	0.295
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 7	26340	1880	23.35	24.00	1.161	-	-	-0.15	0.000	0.000
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 1	DSI 7	26340	1880	22.43	23.00	1.140	-	-	-0.15	0.000	0.000
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 7	26340	1880	24.03	25.00	1.250	-	-	-0.17	0.159	0.199
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 7	26340	1880	23.02	24.00	1.253	-	-	-0.08	0.127	0.159
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 7	26340	1880	24.03	25.00	1.250	-	-	0.04	0.358	0.448
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 7	26340	1880	23.02	24.00	1.253	-	-	-0.04	0.286	0.358
	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 7	26340	1880	24.03	25.00	1.250	-	-	-0.01	0.495	0.619



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 25	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 7	26340	1880	23.02	24.00	1.253	-	-	0.18	0.366	0.459
	LTE Band 25	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 7	26340	1880	24.03	25.00	1.250	-	-	-0.08	0.059	0.074
	LTE Band 25	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 7	26340	1880	23.02	24.00	1.253	-	-	-0.13	0.052	0.065
	LTE Band 25	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI 7	26340	1880	24.03	25.00	1.250	-	-	-0.13	0.076	0.095
	LTE Band 25	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	DSI 7	26340	1880	23.02	24.00	1.253	-	-	0.06	0.065	0.081
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 7	26340	1880	24.03	25.00	1.250	-	-	-0.03	0.048	0.060
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 7	26340	1880	23.02	24.00	1.253	-	-	-0.03	0.051	0.064
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 7	376500	1882.5	23.39	24.00	1.151	-	-	0.08	0.331	0.381
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 7	376500	1882.5	23.31	24.00	1.172	-	-	0.01	0.317	0.372
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	376500	1882.5	23.39	24.00	1.151	-	-	0.05	0.477	0.549
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	376500	1882.5	23.31	24.00	1.172	-	-	0.03	0.463	0.543
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 7	376500	1882.5	23.39	24.00	1.151	-	-	-0.08	0.169	0.194
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 7	376500	1882.5	23.31	24.00	1.172	-	-	-0.08	0.179	0.210
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 7	376500	1882.5	23.39	24.00	1.151	-	-	0.1	0.099	0.114
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 7	376500	1882.5	23.31	24.00	1.172	-	-	-0.18	0.094	0.110
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 7	376500	1882.5	23.39	24.00	1.151	-	-	0.1	0.046	0.053
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 7	376500	1882.5	23.31	24.00	1.172	-	-	0.12	0.051	0.060
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 7	376500	1882.5	23.39	24.00	1.151	-	-	0.07	0.522	0.601
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 7	376500	1882.5	23.31	24.00	1.172	-	-	0.08	0.512	0.600
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	376500	1882.5	23.34	24.00	1.164	-	-	-0.17	0.335	0.390
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	376500	1882.5	23.29	24.00	1.178	-	-	-0.03	0.339	0.399
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	376500	1882.5	23.34	24.00	1.164	-	-	0.03	0.427	0.497
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	376500	1882.5	23.29	24.00	1.178	-	-	0.14	0.410	0.483
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	376500	1882.5	23.34	24.00	1.164	-	-	0.11	0.338	0.393
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	376500	1882.5	23.29	24.00	1.178	-	-	-0.05	0.342	0.403
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	376500	1882.5	23.34	24.00	1.164	-	-	0.18	0.127	0.148
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	376500	1882.5	23.29	24.00	1.178	-	-	0.14	0.112	0.132
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	376500	1882.5	23.34	24.00	1.164	-	-	-0.17	0.416	0.484
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	376500	1882.5	23.29	24.00	1.178	-	-	0.17	0.381	0.449
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI 7	376500	1882.5	23.34	24.00	1.164	-	-	-0.05	0.000	0.000
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI 7	376500	1882.5	23.29	24.00	1.178	-	-	0.01	0.000	0.000
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 7	376500	1882.5	23.68	24.00	1.076	-	-	0.1	0.144	0.155
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 7	376500	1882.5	23.59	24.00	1.099	-	-	-0.17	0.141	0.155
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 7	376500	1882.5	23.68	24.00	1.076	-	-	0.05	0.350	0.377
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 7	376500	1882.5	23.59	24.00	1.099	-	-	0.04	0.332	0.365
43	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 7	376500	1882.5	23.68	24.00	1.076	-	-	0.01	0.569	0.613
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 7	376500	1882.5	23.59	24.00	1.099	-	-	-0.01	0.551	0.606
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 2	DSI 7	376500	1882.5	23.68	24.00	1.076	-	-	-0.08	0.066	0.071
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 2	DSI 7	376500	1882.5	23.59	24.00	1.099	-	-	0.05	0.080	0.088
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI 7	376500	1882.5	23.68	24.00	1.076	-	-	0.06	0.067	0.072
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI 7	376500	1882.5	23.59	24.00	1.099	-	-	-0.09	0.124	0.136
	FR1 n25	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 7	376500	1882.5	23.68	24.00	1.076	-	-	-0.08	0.000	0.000
	FR1 n25	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 7	376500	1882.5	23.59	24.00	1.099	-	-	0.13	0.058	0.064
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 7	27710	2310	21.40	22.00	1.148	-	-	0.08	0.536	0.615
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 7	27710	2310	21.32	22.00	1.169	-	-	0.01	0.430	0.503
44	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	27710	2310	21.40	22.00	1.148	-	-	0.01	0.972	1.116
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 7	27710	2310	21.32	22.00	1.169	-	-	-0.02	0.782	0.915
	LTE Band 30	10M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	27710	2310	21.31	22.00	1.172	-	-	0.1	0.840	0.985
	LTE Band 30	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 7	27710	2310	21.40	22.00	1.148	-	-	0.04	0.363	0.417
	LTE Band 30	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DSI 7	27710	2310	21.32	22.00	1.169	-	-	0.13	0.289	0.338
	LTE Band 30	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 7	27710	2310	21.40	22.00	1.148	-	-	-0.18	0.119	0.137
	LTE Band 30	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 7	27710	2310	21.32	22.00	1.169	-	-	-0.11	0.099	0.116
	LTE Band 30	10M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI 7	27710	2310	21.40	22.00	1.148	-	-	-0.16	0.041	0.047
	LTE Band 30	10M	QPSK	25	0	-	Top Side	10mm	Ant 0	DSI 7	27710	2310	21.32	22.00	1.169	-	-	-0.15	0.032	0.037
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	27710	2310	21.40	22.00	1.148	-	-	-0.06	0.383	0.440



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 7	27710	2310	21.32	22.00	1.169	-	-	-0.14	0.314	0.367
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 7	27710	2310	19.88	21.00	1.294	-	-	0.03	0.102	0.132
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 7	27710	2310	19.76	21.00	1.330	-	-	-0.08	0.085	0.113
	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	27710	2310	19.88	21.00	1.294	-	-	0.07	0.637	0.824
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 7	27710	2310	19.76	21.00	1.330	-	-	0.12	0.519	0.691
	LTE Band 30	10M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 7	27710	2310	19.71	21.00	1.346	-	-	-0.16	0.539	0.725
	LTE Band 30	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 7	27710	2310	19.88	21.00	1.294	-	-	-0.12	0.443	0.573
	LTE Band 30	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 7	27710	2310	19.76	21.00	1.330	-	-	0.07	0.345	0.459
	LTE Band 30	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 7	27710	2310	19.88	21.00	1.294	-	-	-0.05	0.044	0.057
	LTE Band 30	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	DSI 7	27710	2310	19.76	21.00	1.330	-	-	-0.13	0.035	0.047
	LTE Band 30	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 7	27710	2310	19.88	21.00	1.294	-	-	0.08	0.195	0.252
	LTE Band 30	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	DSI 7	27710	2310	19.76	21.00	1.330	-	-	0.16	0.157	0.209
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 7	27710	2310	19.88	21.00	1.294	-	-	0.01	0.013	0.017
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 1	DSI 7	27710	2310	19.76	21.00	1.330	-	-	-0.16	0.000	0.000
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 7	27710	2310	23.13	24.00	1.222	-	-	0.12	0.212	0.259
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 2	DSI 7	27710	2310	22.17	23.00	1.211	-	-	0.03	0.165	0.200
	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 7	27710	2310	23.13	24.00	1.222	-	-	0.02	0.231	0.282
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 2	DSI 7	27710	2310	22.17	23.00	1.211	-	-	0.18	0.193	0.234
	LTE Band 30	10M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 7	27710	2310	23.13	24.00	1.222	-	-	-0.02	0.425	0.519
	LTE Band 30	10M	QPSK	25	0	-	Left Side	10mm	Ant 2	DSI 7	27710	2310	22.17	23.00	1.211	-	-	0.16	0.349	0.422
	LTE Band 30	10M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 7	27710	2310	23.13	24.00	1.222	-	-	-0.1	0.055	0.067
	LTE Band 30	10M	QPSK	25	0	-	Right Side	10mm	Ant 2	DSI 7	27710	2310	22.17	23.00	1.211	-	-	0.07	0.044	0.053
	LTE Band 30	10M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI 7	27710	2310	23.13	24.00	1.222	-	-	0.18	0.169	0.206
	LTE Band 30	10M	QPSK	25	0	-	Top Side	10mm	Ant 2	DSI 7	27710	2310	22.17	23.00	1.211	-	-	-0.1	0.135	0.163
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 7	27710	2310	23.13	24.00	1.222	-	-	0.01	0.036	0.044
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 2	DSI 7	27710	2310	22.17	23.00	1.211	-	-	-0.15	0.039	0.047
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 7	462000	2310	21.95	22.50	1.135	-	-	-0.08	0.174	0.197
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 7	462000	2310	21.91	22.50	1.146	-	-	0.1	0.177	0.203
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	462000	2310	21.95	22.50	1.135	-	-	0.03	0.942	1.069
45	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	462000	2310	21.91	22.50	1.146	-	-	0.05	1.010	1.157
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	462000	2310	21.83	22.50	1.167	-	-	-0.08	0.741	0.865
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 7	462000	2310	21.95	22.50	1.135	-	-	-0.08	0.120	0.136
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 7	462000	2310	21.91	22.50	1.146	-	-	0.1	0.115	0.132
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 7	462000	2310	21.95	22.50	1.135	-	-	-0.18	0.049	0.056
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 7	462000	2310	21.91	22.50	1.146	-	-	0.1	0.059	0.068
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 7	462000	2310	21.95	22.50	1.135	-	-	0.12	0.000	0.000
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 7	462000	2310	21.91	22.50	1.146	-	-	0.08	0.000	0.000
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 7	462000	2310	21.95	22.50	1.135	-	-	-0.17	0.361	0.410
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 7	462000	2310	21.91	22.50	1.146	-	-	-0.03	0.357	0.409
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	462000	2310	19.56	20.00	1.107	-	-	-0.18	0.085	0.094
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	462000	2310	19.53	20.00	1.114	-	-	0.1	0.087	0.097
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	462000	2310	19.56	20.00	1.107	-	-	0.14	0.590	0.653
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	462000	2310	19.53	20.00	1.114	-	-	0.01	0.648	0.722
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	462000	2310	19.56	20.00	1.107	-	-	0.17	0.427	0.473
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	462000	2310	19.53	20.00	1.114	-	-	-0.05	0.437	0.487
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	462000	2310	19.56	20.00	1.107	-	-	0.01	0.000	0.000
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	462000	2310	19.53	20.00	1.114	-	-	0.1	0.041	0.046
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	462000	2310	19.56	20.00	1.107	-	-	-0.17	0.210	0.232
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	462000	2310	19.53	20.00	1.114	-	-	0.04	0.215	0.240
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI 7	462000	2310	19.56	20.00	1.107	-	-	-0.01	0.032	0.035
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI 7	462000	2310	19.53	20.00	1.114	-	-	-0.08	0.000	0.000
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 7	462000	2310	23.28	24.00	1.180	-	-	0.19	0.161	0.19
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 7	462000	2310	23.23	24.00	1.194	-	-	0.07	0.155	0.185
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 7	462000	2310	23.28	24.00	1.180	-	-	-0.18	0.226	0.267
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 7	462000	2310	23.23	24.00	1.194	-	-	0.03	0.265	0.316
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 7	462000	2310	23.28	24.00	1.180	-	-	-0.15	0.306	0.361



FCC SAR Test Report

Report No. : FA4N0543

	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 7	462000	2310	23.23	24.00	1.194	-	-	-0.15	0.327	0.390
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 2	DSI 7	462000	2310	23.28	24.00	1.180	-	-	0.11	0.036	0.042
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 2	DSI 7	462000	2310	23.23	24.00	1.194	-	-	-0.08	0.000	0.000
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI 7	462000	2310	23.28	24.00	1.180	-	-	-0.17	0.106	0.125
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI 7	462000	2310	23.23	24.00	1.194	-	-	-0.08	0.109	0.130
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 7	462000	2310	23.28	24.00	1.180	-	-	-0.04	0.035	0.041
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 7	462000	2310	23.23	24.00	1.194	-	-	-0.08	0.034	0.041
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 7	21100	2535	20.89	22.00	1.291	-	-	0.12	0.211	0.272
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 7	21100	2535	20.81	22.00	1.315	-	-	0.08	0.197	0.259
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	21100	2535	20.89	22.00	1.291	-	-	0.18	0.878	1.134
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	20850	2510	20.81	22.00	1.315	-	-	0.16	0.840	1.105
46	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	21350	2560	20.83	22.00	1.309	-	-	-0.08	0.911	1.193
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	21100	2535	20.84	22.00	1.306	-	-	-0.1	0.752	0.982
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	20850	2510	20.75	22.00	1.334	-	-	0.07	0.686	0.915
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	21350	2560	20.71	22.00	1.346	-	-	0.18	0.757	1.019
	LTE Band 7	20M	QPSK	100	0	-	Back	10mm	Ant 0	DSI 7	21100	2535	20.84	22.00	1.306	-	-	-0.1	0.724	0.946
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 7	21100	2535	20.89	22.00	1.291	-	-	0.01	0.581	0.750
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 7	21100	2535	20.81	22.00	1.315	-	-	-0.15	0.478	0.629
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 7	21100	2535	20.89	22.00	1.291	-	-	0.19	0.252	0.325
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 7	21100	2535	20.81	22.00	1.315	-	-	0.07	0.202	0.266
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI 7	21100	2535	20.89	22.00	1.291	-	-	-0.18	0.057	0.074
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 0	DSI 7	21100	2535	20.81	22.00	1.315	-	-	0.03	0.045	0.059
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	21100	2535	20.89	22.00	1.291	-	-	-0.15	0.713	0.921
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	20850	2510	20.81	22.00	1.315	-	-	-0.15	0.708	0.931
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	21350	2560	20.83	22.00	1.309	-	-	0.11	0.686	0.898
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 7	21100	2535	20.84	22.00	1.306	-	-	-0.08	0.571	0.746
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 7	20850	2510	20.75	22.00	1.334	-	-	-0.17	0.549	0.732
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 7	21350	2560	20.71	22.00	1.346	-	-	-0.08	0.560	0.754
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 0	DSI 7	21100	2535	20.84	22.00	1.306	-	-	-0.04	0.532	0.695
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 7	21100	2535	20.87	21.00	1.030	-	-	0.08	0.388	0.400
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 7	21100	2535	20.80	21.00	1.047	-	-	0.01	0.324	0.339
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	21100	2535	20.87	21.00	1.030	-	-	-0.11	0.661	0.681
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 7	21100	2535	20.80	21.00	1.047	-	-	0.03	0.506	0.530
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 7	21100	2535	20.87	21.00	1.030	-	-	-0.09	0.481	0.496
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 7	21100	2535	20.80	21.00	1.047	-	-	-0.08	0.361	0.378
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 7	21100	2535	20.87	21.00	1.030	-	-	-0.03	0.132	0.136
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 7	21100	2535	20.80	21.00	1.047	-	-	-0.15	0.114	0.119
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 7	21100	2535	20.87	21.00	1.030	-	-	0.02	0.457	0.471
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 7	21100	2535	20.80	21.00	1.047	-	-	0.13	0.429	0.449
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 7	21100	2535	20.87	21.00	1.030	-	-	0.02	0.023	0.024
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 1	DSI 7	21100	2535	20.80	21.00	1.047	-	-	0.16	0.041	0.043
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 7	21100	2535	20.96	22.00	1.271	-	-	0.03	0.151	0.192
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 7	21100	2535	20.87	22.00	1.297	-	-	-0.08	0.124	0.161
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 7	21100	2535	20.96	22.00	1.271	-	-	0.01	0.619	0.786
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 7	21100	2535	20.87	22.00	1.297	-	-	0.19	0.500	0.649
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 7	21100	2535	20.96	22.00	1.271	-	-	-0.15	0.622	0.790
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 7	21100	2535	20.87	22.00	1.297	-	-	-0.08	0.497	0.645
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 7	21100	2535	20.96	22.00	1.271	-	-	-0.08	0.108	0.137
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 7	21100	2535	20.87	22.00	1.297	-	-	0.17	0.090	0.117
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI 7	21100	2535	20.96	22.00	1.271	-	-	0.18	0.385	0.489
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	DSI 7	21100	2535	20.87	22.00	1.297	-	-	-0.04	0.297	0.385
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 7	21100	2535	20.96	22.00	1.271	-	-	-0.08	0.000	0.000
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 7	21100	2535	20.87	22.00	1.297	-	-	-0.13	0.031	0.040
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 7	40620	2593	23.72	24.00	1.067	62.9	1.006	0.17	0.315	0.338
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 7	40620	2593	22.68	23.00	1.076	62.9	1.006	0.18	0.259	0.280



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	40620	2593	23.72	24.00	1.067	62.9	1.006	-0.04	0.892	0.957
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	39750	2506	23.52	24.00	1.117	62.9	1.006	-0.13	0.845	0.949
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	40185	2549.5	23.69	24.00	1.074	62.9	1.006	-0.13	0.769	0.831
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	41055	2636.5	23.67	24.00	1.079	62.9	1.006	0.06	0.711	0.772
47	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 7	41490	2680	23.66	24.00	1.081	62.9	1.006	0.02	0.925	1.006
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	40620	2593	22.68	23.00	1.076	62.9	1.006	-0.03	0.623	0.675
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	39750	2506	22.45	23.00	1.135	62.9	1.006	0.08	0.491	0.561
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	40185	2549.5	22.59	23.00	1.099	62.9	1.006	-0.07	0.566	0.626
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	41055	2636.5	22.65	23.00	1.084	62.9	1.006	0.05	0.504	0.550
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 7	41490	2680	22.55	23.00	1.109	62.9	1.006	-0.11	0.751	0.84
	LTE Band 41	20M	QPSK	100	0	-	Back	10mm	Ant 0	DSI 7	40620	2593	22.67	23.00	1.079	62.9	1.006	-0.12	0.691	0.750
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 7	40620	2593	23.72	24.00	1.067	62.9	1.006	0.03	0.109	0.117
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 7	40620	2593	22.68	23.00	1.076	62.9	1.006	-0.16	0.084	0.091
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 7	40620	2593	23.72	24.00	1.067	62.9	1.006	-0.02	0.046	0.049
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 7	40620	2593	22.68	23.00	1.076	62.9	1.006	0.15	0.039	0.042
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI 7	40620	2593	23.72	24.00	1.067	62.9	1.006	-0.09	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 0	DSI 7	40620	2593	22.68	23.00	1.076	62.9	1.006	0.11	0.010	0.011
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	40620	2593	23.72	24.00	1.067	62.9	1.006	-0.05	0.651	0.699
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	39750	2506	23.52	24.00	1.117	62.9	1.006	0.16	0.608	0.683
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	40185	2549.5	23.69	24.00	1.074	62.9	1.006	0.05	0.635	0.686
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	41055	2636.5	23.67	24.00	1.079	62.9	1.006	0.05	0.731	0.793
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 7	41490	2680	23.66	24.00	1.081	62.9	1.006	-0.03	0.777	0.845
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 7	40620	2593	22.68	23.00	1.076	62.9	1.006	-0.15	0.616	0.67
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 7	39750	2506	22.45	23.00	1.135	62.9	1.006	0.07	0.499	0.570
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 7	40185	2549.5	22.59	23.00	1.099	62.9	1.006	0.16	0.597	0.660
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 7	41055	2636.5	22.65	23.00	1.084	62.9	1.006	0.13	0.496	0.541
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 7	41490	2680	22.55	23.00	1.109	62.9	1.006	-0.18	0.611	0.682
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 0	DSI 7	40620	2593	22.67	23.00	1.079	62.9	1.006	0.02	0.618	0.671
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 7	40620	2593	22.13	23.00	1.222	62.9	1.006	-0.08	0.354	0.435
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 7	40620	2593	21.90	23.00	1.288	62.9	1.006	0.1	0.283	0.367
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	40620	2593	22.13	23.00	1.222	62.9	1.006	0.01	0.641	0.788
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	39750	2506	21.83	23.00	1.309	62.9	1.006	0.01	0.586	0.772
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	40185	2549.5	21.99	23.00	1.262	62.9	1.006	0.06	0.596	0.757
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	41055	2636.5	21.95	23.00	1.274	62.9	1.006	0.02	0.422	0.541
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 7	41490	2680	21.74	23.00	1.337	62.9	1.006	0.12	0.339	0.456
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 7	40620	2593	22.05	23.00	1.245	62.9	1.006	-0.16	0.529	0.662
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 7	39750	2506	21.77	23.00	1.327	62.9	1.006	0.07	0.518	0.692
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 7	40185	2549.5	21.96	23.00	1.271	62.9	1.006	-0.02	0.549	0.702
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 7	41055	2636.5	21.88	23.00	1.294	62.9	1.006	-0.05	0.324	0.422
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 7	41490	2680	21.68	23.00	1.355	62.9	1.006	-0.13	0.268	0.365
	LTE Band 41	20M	QPSK	100	0	-	Back	10mm	Ant 1	DSI 7	40620	2593	22.01	23.00	1.256	62.9	1.006	0.08	0.394	0.498
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 7	40620	2593	22.13	23.00	1.222	62.9	1.006	0.16	0.279	0.343
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 7	40620	2593	22.05	23.00	1.245	62.9	1.006	0	0.225	0.282
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI 7	40620	2593	22.13	23.00	1.222	62.9	1.006	-0.06	0.114	0.14
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DSI 7	40620	2593	21.90	23.00	1.288	62.9	1.006	-0.15	0.091	0.118
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 7	40620	2593	22.13	23.00	1.222	62.9	1.006	0.03	0.388	0.477
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 7	40620	2593	21.90	23.00	1.288	62.9	1.006	-0.13	0.311	0.403
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI 7	40620	2593	22.13	23.00	1.222	62.9	1.006	0.16	0.041	0.050
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 1	DSI 7	40620	2593	21.90	23.00	1.288	62.9	1.006	-0.15	0.027	0.035
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 7	40620	2593	23.10	24.00	1.230	62.9	1.006	-0.18	0.155	0.192
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 7	40620	2593	22.91	24.00	1.285	62.9	1.006	0.1	0.126	0.163
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 7	40620	2593	23.10	24.00	1.230	62.9	1.006	0.1	0.607	0.751
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 7	39750	2506	22.86	24.00	1.300	62.9	1.006	0.07	0.548	0.717
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 7	40185	2549.5	22.91	24.00	1.285	62.9	1.006	0.01	0.665	0.860
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 7	41055	2636.5	22.90	24.00	1.288	62.9	1.006	-0.09	0.541	0.701
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 7	41490	2680	22.97	24.00	1.268	62.9	1.006	-0.16	0.479	0.61



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 7	40620	2593	23.05	24.00	1.245	62.9	1.006	-0.18	0.495	0.620
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 7	39750	2506	22.85	24.00	1.303	62.9	1.006	0.11	0.464	0.608
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 7	40185	2549.5	22.82	24.00	1.312	62.9	1.006	-0.08	0.527	0.696
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 7	41055	2636.5	22.90	24.00	1.288	62.9	1.006	-0.1	0.427	0.553
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 7	41490	2680	22.94	24.00	1.276	62.9	1.006	-0.01	0.372	0.478
	LTE Band 41	20M	QPSK	100	0	-	Back	10mm	Ant 2	DSI 7	40620	2593	23.03	24.00	1.250	62.9	1.006	-0.09	0.449	0.565
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 7	40620	2593	23.10	24.00	1.230	62.9	1.006	-0.06	0.605	0.749
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 7	39750	2506	22.86	24.00	1.300	62.9	1.006	-0.01	0.519	0.679
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 7	40185	2549.5	22.91	24.00	1.285	62.9	1.006	-0.11	0.594	0.768
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 7	41055	2636.5	22.90	24.00	1.288	62.9	1.006	0.14	0.532	0.689
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 7	41490	2680	22.97	24.00	1.268	62.9	1.006	0.03	0.501	0.639
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 7	40620	2593	23.05	24.00	1.245	62.9	1.006	0.1	0.479	0.600
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 7	39750	2506	22.85	24.00	1.303	62.9	1.006	-0.06	0.429	0.562
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 7	40185	2549.5	22.82	24.00	1.312	62.9	1.006	0.02	0.461	0.609
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 7	41055	2636.5	22.90	24.00	1.288	62.9	1.006	-0.16	0.421	0.546
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 7	41490	2680	22.94	24.00	1.276	62.9	1.006	0.05	0.384	0.493
	LTE Band 41	20M	QPSK	100	0	-	Left Side	10mm	Ant 2	DSI 7	40620	2593	23.03	24.00	1.250	62.9	1.006	-0.03	0.413	0.519
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 7	40620	2593	23.10	24.00	1.230	62.9	1.006	0.17	0.053	0.066
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 7	40620	2593	22.91	24.00	1.285	62.9	1.006	-0.15	0.043	0.056
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI 7	40620	2593	23.10	24.00	1.230	62.9	1.006	0.16	0.173	0.214
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	DSI 7	40620	2593	22.91	24.00	1.285	62.9	1.006	0.05	0.139	0.180
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 7	40620	2593	23.10	24.00	1.230	62.9	1.006	-0.06	0.028	0.04
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 7	40620	2593	22.91	24.00	1.285	62.9	1.006	-0.06	0.000	0.000
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 7	507000	2535	22.13	22.50	1.089	-	-	0.12	0.212	0.231
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 7	507000	2535	22.01	22.50	1.119	-	-	0.08	0.210	0.235
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	507000	2535	22.13	22.50	1.089	-	-	-0.13	0.842	0.917
48	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	502000	2510	22.01	22.50	1.119	-	-	0.19	0.900	1.007
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	512000	2560	21.86	22.50	1.159	-	-	0.16	0.792	0.918
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	507000	2535	22.10	22.50	1.096	-	-	-0.15	0.785	0.861
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	502000	2510	21.99	22.50	1.125	-	-	-0.02	0.878	0.987
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	512000	2560	21.91	22.50	1.146	-	-	-0.09	0.763	0.874
	FR1 n7	20M	QPSK	100	0	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 7	507000	2535	22.00	22.50	1.122	-	-	0.14	0.799	0.896
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 7	507000	2535	22.13	22.50	1.089	-	-	0.1	0.097	0.106
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 7	507000	2535	22.01	22.50	1.119	-	-	-0.09	0.099	0.111
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 7	507000	2535	22.13	22.50	1.089	-	-	0.07	0.113	0.123
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 7	507000	2535	22.01	22.50	1.119	-	-	-0.09	0.104	0.116
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 7	507000	2535	22.13	22.50	1.089	-	-	-0.16	0.000	0.00
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI 7	507000	2535	22.01	22.50	1.119	-	-	-0.18	0.000	0.000
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 7	507000	2535	22.13	22.50	1.089	-	-	-0.07	0.542	0.590
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 7	507000	2535	22.10	22.50	1.096	-	-	-0.1	0.501	0.549
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	507000	2535	21.68	22.00	1.076	-	-	-0.17	0.390	0.420
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 7	507000	2535	21.66	22.00	1.081	-	-	-0.03	0.382	0.413
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	507000	2535	21.68	22.00	1.076	-	-	-0.15	0.681	0.733
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 7	507000	2535	21.66	22.00	1.081	-	-	0.05	0.543	0.587
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	507000	2535	21.68	22.00	1.076	-	-	-0.11	0.510	0.549
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 7	507000	2535	21.66	22.00	1.081	-	-	-0.18	0.488	0.528
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	507000	2535	21.68	22.00	1.076	-	-	0.01	0.173	0.186
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI 7	507000	2535	21.66	22.00	1.081	-	-	-0.04	0.189	0.204
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	507000	2535	21.68	22.00	1.076	-	-	0.13	0.562	0.605
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 7	507000	2535	21.66	22.00	1.081	-	-	0.12	0.592	0.640
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI 7	507000	2535	21.68	22.00	1.076	-	-	0.07	0.000	0.000
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI 7	507000	2535	21.66	22.00	1.081	-	-	0.08	0.030	0.032
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 7	507000	2535	23.33	24.00	1.167	-	-	0.08	0.077	0.090
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 7	507000	2535	23.20	24.00	1.202	-	-	0.01	0.083	0.100
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 7	507000	2535	23.33	24.00	1.167	-	-	0.03	0.497	0.580
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 7	507000	2535	23.20	24.00	1.202	-	-	-0.08	0.494	0.594



FCC SAR Test Report

Report No. : FA4N0543

	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 7	507000	2535	23.33	24.00	1.167	-	-	-0.08	0.377	0.440
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 7	507000	2535	23.20	24.00	1.202	-	-	0.1	0.358	0.430
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 2	DSI 7	507000	2535	23.33	24.00	1.167	-	-	-0.18	0.035	0.041
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 2	DSI 7	507000	2535	23.20	24.00	1.202	-	-	0.1	0.000	0.000
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI 7	507000	2535	23.33	24.00	1.167	-	-	0.12	0.072	0.084
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI 7	507000	2535	23.20	24.00	1.202	-	-	0.08	0.059	0.071
	FR1 n7	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 7	507000	2535	23.33	24.00	1.167	-	-	-0.17	0.000	0.000
	FR1 n7	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 7	507000	2535	23.20	24.00	1.202	-	-	-0.03	0.000	0.000
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 0	DSI 7	518598	2592.99	21.76	22.50	1.186	-	-	0.14	0.214	0.254
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 0	DSI 7	518598	2592.99	21.67	22.50	1.211	-	-	0.11	0.262	0.317
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 7	518598	2592.99	21.76	22.50	1.186	-	-	0.07	0.891	1.057
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 7	518598	2592.99	21.67	22.50	1.211	-	-	-0.05	0.850	1.029
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 7	518598	2592.99	21.54	22.50	1.247	-	-	-0.13	0.787	0.982
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 0	DSI 7	518598	2592.99	21.76	22.50	1.186	-	-	0.01	0.064	0.076
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 0	DSI 7	518598	2592.99	21.67	22.50	1.211	-	-	-0.11	0.087	0.105
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 0	DSI 7	518598	2592.99	21.76	22.50	1.186	-	-	0.03	0.136	0.161
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 0	DSI 7	518598	2592.99	21.67	22.50	1.211	-	-	-0.05	0.176	0.213
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 0	DSI 7	518598	2592.99	21.76	22.50	1.186	-	-	0.14	0.000	0.00
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 0	DSI 7	518598	2592.99	21.67	22.50	1.211	-	-	-0.01	0.036	0.044
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 0	DSI 7	518598	2592.99	21.76	22.50	1.186	-	-	-0.12	0.671	0.796
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 0	DSI 7	518598	2592.99	21.67	22.50	1.211	-	-	0.04	0.622	0.753
49	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI 7	518598	2592.99	24.91	25.50	1.146	50	1.000	0.01	0.924	1.058
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 7	518598	2592.99	23.29	24.00	1.178	-	-	0.02	0.467	0.550
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 7	518598	2592.99	23.25	24.00	1.189	-	-	0.09	0.442	0.525
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 7	518598	2592.99	23.29	24.00	1.178	-	-	0.01	0.654	0.770
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 7	518598	2592.99	23.25	24.00	1.189	-	-	0.05	0.495	0.588
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 7	518598	2592.99	23.29	24.00	1.178	-	-	-0.04	0.475	0.559
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 7	518598	2592.99	23.25	24.00	1.189	-	-	0.11	0.487	0.579
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 1	DSI 7	518598	2592.99	23.29	24.00	1.178	-	-	-0.08	0.103	0.121
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 1	DSI 7	518598	2592.99	23.25	24.00	1.189	-	-	-0.05	0.101	0.120
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 7	518598	2592.99	23.29	24.00	1.178	-	-	-0.03	0.349	0.41
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 7	518598	2592.99	23.25	24.00	1.189	-	-	0.17	0.339	0.403
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 1	DSI 7	518598	2592.99	23.29	24.00	1.178	-	-	-0.14	0.000	0.000
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 1	DSI 7	518598	2592.99	23.25	24.00	1.189	-	-	0.06	0.000	0.000
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 7	518598	2592.99	26.18	27.00	1.208	50	1.000	0.09	0.648	0.783
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI 7	518598	2592.99	23.82	25.00	1.312	-	-	-0.08	0.096	0.126
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI 7	518598	2592.99	23.74	25.00	1.337	-	-	0.05	0.091	0.122
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 7	518598	2592.99	23.82	25.00	1.312	-	-	0.01	0.515	0.676
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 7	518598	2592.99	23.74	25.00	1.337	-	-	0.06	0.438	0.585
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 7	518598	2592.99	23.82	25.00	1.312	-	-	-0.09	0.418	0.548
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 7	518598	2592.99	23.74	25.00	1.337	-	-	-0.08	0.386	0.516
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI 7	518598	2592.99	23.82	25.00	1.312	-	-	0.13	0.000	0.000
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI 7	518598	2592.99	23.74	25.00	1.337	-	-	0.12	0.000	0.000
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI 7	518598	2592.99	23.82	25.00	1.312	-	-	0.03	0.072	0.094
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI 7	518598	2592.99	23.74	25.00	1.337	-	-	0.18	0.078	0.104
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 7	518598	2592.99	23.82	25.00	1.312	-	-	0.16	0.032	0.042
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 7	518598	2592.99	23.74	25.00	1.337	-	-	-0.1	0.000	0.000
	FR1 n41-HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 7	518598	2592.99	26.65	27.00	1.084	50	1.000	0.01	0.537	0.582
3500MHz																				
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 7	42590	3500	24.83	26.00	1.309	62.9	1.006	-0.13	0.105	0.138
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 7	42590	3500	23.80	25.00	1.318	62.9	1.006	0.17	0.085	0.113
50	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 7	42590	3500	24.83	26.00	1.309	62.9	1.006	0.06	0.420	0.553
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 7	42590	3500	23.80	25.00	1.318	62.9	1.006	-0.04	0.370	0.491
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 7	42590	3500	24.83	26.00	1.309	62.9	1.006	0.11	0.417	0.549
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 7	42590	3500	23.80	25.00	1.318	62.9	1.006	0.1	0.346	0.459
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI 7	42590	3500	24.83	26.00	1.309	62.9	1.006	0.13	0.031	0.041



FCC SAR Test Report

Report No. : FA4N0543

	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI 7	42590	3500	23.80	25.00	1.318	62.9	1.006	-0.18	0.023	0.031
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI 7	42590	3500	24.83	26.00	1.309	62.9	1.006	-0.11	0.214	0.282
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	DSI 7	42590	3500	23.80	25.00	1.318	62.9	1.006	-0.16	0.174	0.231
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 7	42590	3500	24.83	26.00	1.309	62.9	1.006	-0.15	0.022	0.029
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 7	42590	3500	23.80	25.00	1.318	62.9	1.006	-0.06	0.018	0.024
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 7	42590	3500	21.85	22.00	1.035	62.9	1.006	-0.14	0.103	0.107
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 7	42590	3500	20.94	21.00	1.014	62.9	1.006	-0.19	0.085	0.087
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 7	42590	3500	21.85	22.00	1.035	62.9	1.006	-0.06	0.451	0.470
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 7	42590	3500	20.94	21.00	1.014	62.9	1.006	0.02	0.386	0.394
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 7	42590	3500	21.85	22.00	1.035	62.9	1.006	-0.16	0.047	0.049
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 7	42590	3500	20.94	21.00	1.014	62.9	1.006	-0.12	0.032	0.033
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI 7	42590	3500	21.85	22.00	1.035	62.9	1.006	0.07	0.366	0.381
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Side	10mm	Ant 3	DSI 7	42590	3500	20.94	21.00	1.014	62.9	1.006	-0.02	0.312	0.318
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 7	42590	3500	21.85	22.00	1.035	62.9	1.006	-0.05	0.051	0.053
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 7	42590	3500	20.94	21.00	1.014	62.9	1.006	-0.13	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 3	DSI 7	42590	3500	21.85	22.00	1.035	62.9	1.006	0.08	0.056	0.058
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 3	DSI 7	42590	3500	20.94	21.00	1.014	62.9	1.006	0.16	0.057	0.058
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 7	42590	3500	22.67	23.00	1.079	62.9	1.006	-0.05	0.114	0.124
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 7	42590	3500	22.60	23.00	1.096	62.9	1.006	0.18	0.094	0.104
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 7	42590	3500	22.67	23.00	1.079	62.9	1.006	0.09	0.427	0.463
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 7	42590	3500	22.60	23.00	1.096	62.9	1.006	-0.01	0.327	0.361
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	10mm	Ant 6	DSI 7	42590	3500	22.67	23.00	1.079	62.9	1.006	0.1	0.405	0.440
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	10mm	Ant 6	DSI 7	42590	3500	22.60	23.00	1.096	62.9	1.006	0.02	0.316	0.349
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	DSI 7	42590	3500	22.67	23.00	1.079	62.9	1.006	0.05	0.074	0.080
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Side	10mm	Ant 6	DSI 7	42590	3500	22.60	23.00	1.096	62.9	1.006	-0.03	0.064	0.071
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	DSI 7	42590	3500	22.67	23.00	1.079	62.9	1.006	0.17	0.046	0.050
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	DSI 7	42590	3500	22.60	23.00	1.096	62.9	1.006	-0.15	0.034	0.038
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 6	DSI 7	42590	3500	22.67	23.00	1.079	62.9	1.006	0.16	0.413	0.448
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 6	DSI 7	42590	3500	22.60	23.00	1.096	62.9	1.006	0.05	0.327	0.361
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 7	42590	3500	23.10	24.00	1.230	62.9	1.006	0.01	0.110	0.136
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 7	42590	3500	22.05	23.00	1.245	62.9	1.006	-0.16	0.090	0.113
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 7	42590	3500	23.10	24.00	1.230	62.9	1.006	0.1	0.169	0.209
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 7	42590	3500	22.05	23.00	1.245	62.9	1.006	-0.04	0.136	0.170
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	10mm	Ant 5	DSI 7	42590	3500	23.10	24.00	1.230	62.9	1.006	-0.01	0.047	0.058
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	10mm	Ant 5	DSI 7	42590	3500	22.05	23.00	1.245	62.9	1.006	0	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	DSI 7	42590	3500	23.10	24.00	1.230	62.9	1.006	-0.11	0.243	0.301
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	DSI 7	42590	3500	22.05	23.00	1.245	62.9	1.006	-0.06	0.192	0.240
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	DSI 7	42590	3500	23.10	24.00	1.230	62.9	1.006	-0.15	0.107	0.132
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	DSI 7	42590	3500	22.05	23.00	1.245	62.9	1.006	0.03	0.094	0.118
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI 7	42590	3500	23.10	24.00	1.230	62.9	1.006	-0.13	0.048	0.059
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 5	DSI 7	42590	3500	22.05	23.00	1.245	62.9	1.006	0.16	0.039	0.049
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI 7	656000	3840	20.12	21.00	1.225	-	-	-0.01	0.121	0.148
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI 7	656000	3840	20.06	21.00	1.242	-	-	-0.08	0.139	0.173
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 7	656000	3840	20.12	21.00	1.225	-	-	0.04	0.609	0.746
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 7	656000	3840	20.06	21.00	1.242	-	-	-0.08	0.586	0.728
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 7	656000	3840	20.12	21.00	1.225	-	-	0.12	0.612	0.749
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 7	656000	3840	20.06	21.00	1.242	-	-	0.01	0.610	0.757
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI 7	656000	3840	20.12	21.00	1.225	-	-	0.18	0.078	0.096
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI 7	656000	3840	20.06	21.00	1.242	-	-	0.16	0.064	0.079
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI 7	656000	3840	20.12	21.00	1.225	-	-	-0.1	0.277	0.339
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI 7	656000	3840	20.06	21.00	1.242	-	-	0.07	0.217	0.269
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 7	656000	3840	20.12	21.00	1.225	-	-	0.18	0.031	0.038
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 7	656000	3840	20.06	21.00	1.242	-	-	-0.1	0.047	0.058
	FR1 n77 Part 27O HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 7	656000	3840	23.51	24.00	1.119	50	1.000	0.07	0.681	0.762
	FR1 n77 Part 27O HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	Simultaneous	656000	3840	20.61	21.00	1.094	50	1.000	0.08	0.065	0.071
	FR1 n77 Part 27O HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	Simultaneous	656000	3840	20.61	21.00	1.094	50	1.000	0.01	0.295	0.323



FCC SAR Test Report

Report No. : FA4N0543

	FR1 n77 Part 270 HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Simultaneous	656000	3840	20.61	21.00	1.094	50	1.000	0.03	0.321	0.351
	FR1 n77 Part 270 HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	Simultaneous	656000	3840	20.61	21.00	1.094	50	1.000	-0.08	0.039	0.043
	FR1 n77 Part 270 HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	Simultaneous	656000	3840	20.61	21.00	1.094	50	1.000	-0.08	0.140	0.153
	FR1 n77 Part 270 HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	Simultaneous	656000	3840	20.61	21.00	1.094	50	1.000	0.10	0.029	0.032
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI 7	633334	3500.01	19.79	21.00	1.321	-	-	0.05	0.072	0.095
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI 7	633334	3500.01	19.72	21.00	1.343	-	-	0.06	0.060	0.081
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 7	633334	3500.01	19.79	21.00	1.321	-	-	0.06	0.283	0.374
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 7	633334	3500.01	19.72	21.00	1.343	-	-	-0.08	0.262	0.352
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 7	633334	3500.01	19.79	21.00	1.321	-	-	-0.08	0.262	0.346
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 7	633334	3500.01	19.72	21.00	1.343	-	-	0.03	0.290	0.389
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI 7	633334	3500.01	19.79	21.00	1.321	-	-	-0.18	0.068	0.090
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI 7	633334	3500.01	19.72	21.00	1.343	-	-	0.1	0.067	0.090
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI 7	633334	3500.01	19.79	21.00	1.321	-	-	0.12	0.270	0.357
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI 7	633334	3500.01	19.72	21.00	1.343	-	-	0.08	0.254	0.341
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 7	633334	3500.01	19.79	21.00	1.321	-	-	-0.17	0.000	0.000
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 7	633334	3500.01	19.72	21.00	1.343	-	-	-0.03	0.000	0.000
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 7	633334	3500.01	22.83	24.00	1.309	50	1.000	0.03	0.295	0.386
	FR1 n77 Part 27Q ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	Simultaneous	633334	3500.01	16.77	18.00	1.327	-	-	-0.18	0.037	0.049
	FR1 n77 Part 27Q ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	Simultaneous	633334	3500.01	16.77	18.00	1.327	-	-	0.10	0.144	0.191
	FR1 n77 Part 27Q ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Simultaneous	633334	3500.01	16.77	18.00	1.327	-	-	0.12	0.149	0.198
	FR1 n77 Part 27Q ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	Simultaneous	633334	3500.01	16.77	18.00	1.327	-	-	0.08	0.036	0.048
	FR1 n77 Part 27Q ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	Simultaneous	633334	3500.01	16.77	18.00	1.327	-	-	-0.17	0.138	0.183
	FR1 n77 Part 27Q ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	Simultaneous	633334	3500.01	16.77	18.00	1.327	-	-	-0.03	0.000	0.000
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI 7	656000	3840	23.44	24.00	1.138	-	-	0.16	0.067	0.076
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI 7	656000	3840	23.31	24.00	1.172	-	-	0.05	0.075	0.088
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI 7	656000	3840	23.44	24.00	1.138	-	-	0.05	0.281	0.320
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI 7	656000	3840	23.31	24.00	1.172	-	-	0.01	0.379	0.444
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI 7	656000	3840	23.44	24.00	1.138	-	-	-0.15	0.027	0.031
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI 7	656000	3840	23.31	24.00	1.172	-	-	0.02	0.036	0.042
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 3	DSI 7	656000	3840	23.44	24.00	1.138	-	-	0.07	0.272	0.309
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 3	DSI 7	656000	3840	23.31	24.00	1.172	-	-	0.16	0.273	0.320
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI 7	656000	3840	23.44	24.00	1.138	-	-	0.13	0.052	0.059
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI 7	656000	3840	23.31	24.00	1.172	-	-	-0.18	0.074	0.087
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	DSI 7	656000	3840	23.44	24.00	1.138	-	-	0.02	0.074	0.084
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	DSI 7	656000	3840	23.31	24.00	1.172	-	-	0.16	0.054	0.063
	FR1 n77 Part 27Q HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI 7	656000	3840	26.32	27.00	1.169	50	1.000	-0.03	0.381	0.446
	FR1 n77 Part 27Q HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	Simultaneous	656000	3840	25.44	26.00	1.138	50	1.000	0.14	0.065	0.074
	FR1 n77 Part 27Q HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	Simultaneous	656000	3840	25.44	26.00	1.138	50	1.000	0.11	0.301	0.342
	FR1 n77 Part 27Q HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	Simultaneous	656000	3840	25.44	26.00	1.138	50	1.000	-0.05	0.032	0.036
	FR1 n77 Part 27Q HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 3	Simultaneous	656000	3840	25.44	26.00	1.138	50	1.000	0.18	0.227	0.258
	FR1 n77 Part 27Q HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 3	Simultaneous	656000	3840	25.44	26.00	1.138	50	1.000	0.14	0.064	0.073
	FR1 n77 Part 27Q HPUE ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	Simultaneous	656000	3840	25.44	26.00	1.138	50	1.000	-0.17	0.061	0.069
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI 7	633334	3500.01	22.96	24.00	1.271	-	-	-0.03	0.061	0.078
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI 7	633334	3500.01	22.83	24.00	1.309	-	-	0.07	0.047	0.062
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI 7	633334	3500.01	22.96	24.00	1.271	-	-	0	0.233	0.296
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI 7	633334	3500.01	22.83	24.00	1.309	-	-	0.01	0.212	0.278
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI 7	633334	3500.01	22.96	24.00	1.271	-	-	-0.01	0.045	0.057
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI 7	633334	3500.01	22.83	24.00	1.309	-	-	-0.06	0.053	0.069
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 3	DSI 7	633334	3500.01	22.96	24.00	1.271	-	-	-0.04	0.127	0.161
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 3	DSI 7	633334	3500.01	22.83	24.00	1.309	-	-	-0.09	0.108	0.141
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI 7	633334	3500.01	22.96	24.00	1.271	-	-	-0.17	0.015	0.019
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI 7	633334	3500.01	22.83	24.00	1.309	-	-	-0.1	0.026	0.034
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	DSI 7	633334	3500.01	22.96	24.00	1.271	-	-	0.18	0.048	0.061
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	DSI 7	633334	3500.01	22.83	24.00	1.309	-	-	-0.17	0.042	0.055