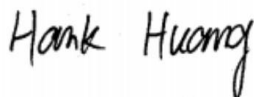


FCC SAR Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2609-1, XT2609-2, XT2609-3, XT2609V
FCC ID : IHDT56AX1
STANDARD : FCC 47 CFR Part 2 (2.1093)

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

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



Approved by: Hank Huang

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

Table of Contents

1. Statement of Compliance	4
2. Administration Data	6
3. Guidance Applied	6
4. Equipment Under Test (EUT) Information	7
4.1 General Information.....	7
4.2 General LTE SAR Test and Reporting Considerations	10
4.3 General 5G NR SAR Test and Reporting Considerations	14
5. TA-SAR feature for RF Exposure compliance	18
6. Proximity Sensor Triggering Test.....	22
7. RF Exposure Limits.....	24
7.1 Uncontrolled Environment	24
7.2 Controlled Environment.....	24
7.3 RF Exposure limit for above 6GHz	25
8. Specific Absorption Rate (SAR)	26
8.1 Introduction	26
8.2 SAR Definition	26
9. System Description and Setup.....	27
9.1 E-Field Probe	28
9.2 Data Acquisition Electronics (DAE)	28
9.3 Phantom.....	29
9.4 Device Holder.....	30
10. Measurement Procedures.....	31
10.1 Spatial Peak SAR Evaluation	31
10.2 Power Reference Measurement.....	32
10.3 Area Scan.....	32
10.4 Zoom Scan.....	33
10.5 Volume Scan Procedures.....	33
10.6 Power Drift Monitoring	33
11. Test Equipment List	34
12. System Verification	35
12.1 Tissue Simulating Liquids	35
12.2 Tissue Verification	36
12.3 System Performance Check Results.....	38
12.4 PD System Verification Results	40
13. RF Exposure Positions	41
13.1 Ear and handset reference point	41
13.2 Definition of the cheek position	42
13.3 Definition of the tilt position	43
13.4 Body Worn Accessory	44
13.5 Product Specific 10g SAR Exposure	45
13.6 Wireless Router.....	45
13.7 Miscellaneous Testing Considerations	45
14. Conducted RF Output Power (Unit: dBm).....	46
15. Antenna Location	74
16. SAR Test Results	75
16.1 Head SAR	79
16.2 Hotspot SAR	93
16.3 Body Worn Accessory SAR	108
16.4 Product specific 10g SAR.....	121
16.5 6GHz PD Test Result	135
16.6 Repeated SAR Measurement	136
16.7 TDD LTE/NR Linearity Data Analysis	137
17. Simultaneous Transmission Analysis	141
17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis.....	143
17.2 Head Exposure Conditions.....	145
17.3 Hotspot Exposure Conditions.....	149
17.4 Body-Worn Accessory Exposure Conditions.....	152
17.5 Product specific 10g SAR Exposure Conditions.....	154
17.6 SPLSR Evaluation and Analysis.....	157
17.7 SAR Peak Locations of Maximum Reported SAR	172
17.8 Volume Scan Test procedure and SAR Results	178
18. Uncertainty Assessment.....	180
19. References.....	183



Appendixes	184
Appendix A. Plots of System Performance Check.....	184
Appendix B. Plots of High SAR and PD Measurement	184
Appendix C. DASY Calibration Certificate	184
Appendix D. Test Setup Photos.....	184
Appendix E. Conducted RF Output Power Table	184
Appendix F. Power measurement connection diagram and CA Conducted RF Output Power Table	184
Appendix G. Power reduction mechanism verification	184

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA612609	Rev. 01	Initial issue of report.	Mar. 25, 2026

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2609-1, XT2609-2, XT2609-3, XT2609V**, are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	0.42	1.22	1.22	1.59
		GSM1900	0.20	1.16	1.06	
	WCDMA	WCDMA II	0.29	1.27	1.25	
		WCDMA IV	0.32	1.28	1.24	
		WCDMA V	0.34	1.04	1.04	
	LTE	LTE Band 7	0.83	1.15	1.28	
		LTE Band 12/17	0.78	1.28	1.05	
		LTE Band 13	0.74	1.25	1.16	
		LTE Band 14	0.72	1.27	1.26	
		LTE Band 25/2	0.79	1.10	1.28	
		LTE Band 26/5	0.88	1.26	1.26	
		LTE Band 30	0.87	1.04	1.12	
		LTE Band 66/4	0.88	1.08	1.06	
		LTE Band 71	0.74	1.05	1.19	
		LTE Band 41/38	0.86	1.26	1.23	
		LTE Band 42	0.69	0.52	0.61	
		LTE Band 48	0.84	0.61	0.77	
	5G NR	FR1 n7	0.78	1.13	1.09	
		FR1 n12	0.71	1.12	0.89	
		FR1 n13	0.75	1.08	1.05	
		FR1 n14	0.73	1.22	1.21	
		FR1 n25/2	0.81	1.01	1.12	
		FR1 n26/5	0.80	1.05	1.05	
		FR1 n30	0.81	1.13	1.20	
		FR1 n66	0.79	1.26	1.02	
		FR1 n70	0.87	1.11	1.16	
		FR1 n71	0.71	1.03	0.97	
		FR1 n41/38	0.88	1.22	1.28	
		FR1 n48	0.82	0.61	0.77	
		FR1 n77/78	0.80	0.59	0.80	
DTS	WLAN	2.4GHz WLAN	1.15	0.46	1.08	1.59
NII		5GHz WLAN	1.08	0.42	1.16	1.59
6XD		6GHz WLAN	1.08		0.40	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.17	0.24	0.24	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)
Licensed	GSM	GSM850	1.73	3.99
		GSM1900	2.55	
	WCDMA	WCDMA II	2.77	
		WCDMA IV	2.77	
	LTE	LTE Band 7	2.55	
		LTE Band 12/17	2.03	

		LTE Band 13	1.60	
		LTE Band 14	2.22	
		LTE Band 25/2	3.05	
		LTE Band 26/5	2.04	
		LTE Band 30	2.60	
		LTE Band 66/4	2.82	
		LTE Band 41/38	3.14	
		LTE Band 42	1.91	
		LTE Band 48	2.13	
	5G NR	FR1 n7	2.63	
		FR1 n25/2	2.87	
		FR1 n26/5	1.00	
		FR1 n30	3.09	
		FR1 n66	2.96	
		FR1 n70	2.69	
		FR1 n41/38	3.04	
		FR1 n48	2.36	
DTS	WLAN	2.4GHz WLAN	2.36	3.99
NII		5GHz WLAN	2.93	3.99
6XD		6GHz WLAN	0.49	3.99

Equipment Class	Frequency Band	Measured APD			Reported PD
		Head (W/m ²)	Body Worn (W/m ²)	Phablet (W/m ²)	psPD (W/m ²)
6XD	6GHz WLAN	5.78	2.36	9.05	7.68
Date of Testing:		2026/2/2 ~ 2026/3/14			

Remark:

1. This device supports LTE B2 / B4 / B5 / B17 / B38 and B25 / B66 / B26 / B12 / B41. Since the supported frequency span for LTE B2 / B4 / B5 / B17 / B38 falls completely within the support's 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 5G NR n5 / n38 / n78/n2 and n26 / n41 / n77/n25. Since the supported frequency span for 5G NR n5 / n38 / n78 falls completely within the support's frequency span for n26 / n41 / n77/n25, both 5G NR bands have the same target power, and both 5G NR bands share the same transmission path; therefore, SAR was only assessed for n26 / n41 / n77/n25.

Declaration of Conformity:

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

Comments and Explanations:

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

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093), and Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

2. Administration Data

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR03-SZ, SAR02-SZ	CN1256	421272

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

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

3. Guidance Applied

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

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- 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
- IEC/IEEE 62209-1528:2020
- IEC TR 63170:2018
- IEC 62479:2010
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2609-1, XT2609-2, XT2609-3, XT2609V
FCC ID	IHDT56AX1
IMEI Code	357143740030272/357143740030280, 357143740030397/357143740030405, 357143740030231/357143740030249, 357143740030298//357143740030306
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3600 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14: 788 MHz ~ 798 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n30: 2305 MHz ~ 2315 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70: 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz WLAN 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	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA/HSUPA DC-HSDPA HSPA+ (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 WLAN 5GHz 802.11ax HE20/HE40/HE80 WLAN 6GHz 802.11a/ax HE20/HE40/HE80 Bluetooth BR/EDR/LE NFC: ASK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark: 1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (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 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). WLAN 6GHz has no hotspot function. 4. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12. 5. This device supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). 6. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the MediaTek TA-SAR will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E. 7. For WLAN when transmit simultaneous with WWAN/BT, the WLAN power reduction will be activated to head, body-worn, extremity exposure condition. 8. This device supports HPUE mode for LTE Band41 and 5GNR n41/n77/n78 with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so power class 3 was chosen to perform full SAR testing and power class 2 verified the worst case of power class 3 SAR. 9. For 5GNR n41/n77/n78 HPUE, 5GNR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing. 10. 5GNR n2/ n25/ n30/n48/n41/n66/n77/n78 supports UL MIMO mode. 11. The device supports HPUE (power class 2) under SISO mode and HPUE (power class 1.5) under UL MIMO mode for 5G NR n77/n41. 12. The device support DBS (Dual Band Simultaneous) function, when the device WLAN 2.4GHz and WLAN 5GHz or WLAN 6GHz transmit at the same time the device will limit different output power for simultaneous transmission compliance. 13. The different model names XT2609-1, XT2609-2, XT2609-3, XT2609V are only for market segment purpose, there is no other difference. 14. This device has NFC function and the NFC SAR report will be separately submitted. 15. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.	

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n2	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 45
	n71	FDD	15	5, 10, 15, 20, 25, 30, 35
	n41	TDD	30	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 15, 20, 30, 40
SA	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n2	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
	n12	FDD	15	5, 10, 15
	n13	FDD	15	5, 10
	n14	FDD	15	5, 10
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 45
	n70	FDD	15	5, 10, 15
	n71	FDD	15	5, 10, 15, 20, 25, 30, 35
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 15, 20, 30, 40
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05									
FCC ID		IHDT56AX1							
Equipment Name		Mobile Cellular Phone							
Operating Frequency Range of each LTE transmission band		LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3600 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz							
Channel Bandwidth		LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz							
uplink modulations used		QPSK / 16QAM / 64QAM / 256QAM							
LTE Voice / Data requirements		Voice and Data							
LTE Release Version		R18							
CA Support		Supported, Uplink and Downlink							
LTE MPR permanently built-in by design		Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3							
		Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})					MPR (dB)	
			1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz		20 MHz
		QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
		16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
		16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
		64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
		64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
		256 QAM	≥ 1					≤ 5	
LTE A-MPR		In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)							
Spectrum plots for RB configuration		A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.							
Power reduction applied to satisfy SAR compliance		Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body-worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 14.							
LTE Carrier Aggregation Combinations		Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.							
LTE	Carrier	Aggregation	Additional	1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and					

Information	inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 2 carriers in the uplink.
-------------	--

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	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	20525	836.5	20525	836.5
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	21100	2535	21100	2535
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	23095	707.5	23095	707.5
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)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782					
M	23230		782									
H	23255		784.5									
LTE Band 14												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Channel #		Channel #		Freq.(MHz)					
L	23305		790.5		23330		793					
M	23330		793									
H	23355		795.5									
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		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	26633	1909.3	26625	1908.5	26615	1907.5	26590	1905	26565	1902.5	26540	1900

LTE Band 26										
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5

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

LTE Band 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)	Freq. (MHz)
L	42115	3452.5	42140	3455	42165	3457.5	42190	3460	3460
M	42590	3500	42590	3500	42590	3500	42590	3500	3500
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540	3540

LTE Band 42								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	43115	3552.5	43140	3555	43165	3557.5	43190	3560
M	43340	3575	43340	3575	43340	3575	43340	3575
H	43565	3597.5	43540	3595	43515	3592.5	43490	3590

LTE Band 48								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560
LM	55810	3607	55815	3607.5	55820	3608	55830	3609
MH	56170	3643	56165	3642.5	56160	3642	56150	3641
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690

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

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 17			Yes	Yes		
LTE Band 5	Yes	Yes	Yes	Yes		
LTE Band 26	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 2	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 25	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 38			Yes	Yes	Yes	Yes
LTE Band 41			Yes	Yes	Yes	Yes

2) LTE Bands tune up:

Band	Ant	Full	ECI2	ECI3	ECI4	ECI6	ECI7
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit
LTE Band 12	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 12	Ant 1	24.0	22.5	24.0	24.0	24.0	21.0
LTE Band 17	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 17	Ant 1	24.0	22.5	24.0	24.0	24.0	21.0
LTE Band 5	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 5	Ant 1	24.0	21.5	21.5	24.0	24.0	19.5
LTE Band 26	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 26	Ant 1	24.0	21.5	21.5	24.0	24.0	19.5
LTE Band 4	Ant 2	24.0	24.0	21.5	24.0	23.0	19.5
LTE Band 4	Ant 9	24.0	20.0	20.5	24.0	23.0	17.0
LTE Band 4	Ant 1	24.0	17.0	19.0	24.0	21.5	16.5
LTE Band 66	Ant 2	24.0	24.0	21.5	24.0	23.0	19.5
LTE Band 66	Ant 9	24.0	20.0	20.5	24.0	23.0	17.0
LTE Band 66	Ant 1	24.0	17.0	19.0	24.0	21.5	16.5
LTE Band 2	Ant 2	24.0	24.0	22.0	24.0	23.5	20.0
LTE Band 2	Ant 9	24.0	19.0	19.0	24.0	22.5	16.0
LTE Band 2	Ant 1	24.0	16.0	17.5	24.0	21.5	15.5
LTE Band 25	Ant 2	24.0	24.0	22.0	24.0	23.5	20.0
LTE Band 25	Ant 9	24.0	19.0	19.0	24.0	22.5	16.0
LTE Band 25	Ant 1	24.0	16.0	17.5	24.0	21.5	15.5
LTE Band 38	Ant 2	24.0	24.0	23.0	24.0	24.0	21.0
LTE Band 38	Ant 9	24.0	20.0	19.0	24.0	23.0	18.5
LTE Band 38	Ant 1	24.0	17.0	18.5	24.0	20.5	15.0
LTE Band 41 PC3	Ant 2	24.0	24.0	23.5	24.0	24.0	21.5
LTE Band 41 PC2	Ant 2	27.0	27.0	25.1	27.0	27.0	23.1
LTE Band 41 PC3	Ant 9	24.0	20.0	19.5	24.0	23.5	19.0
LTE Band 41 PC2	Ant 9	27.0	21.6	21.1	27.0	25.1	20.6
LTE Band 41 PC3	Ant 1	24.0	17.5	19.0	24.0	21.0	15.5
LTE Band 41 PC2	Ant 1	27.0	19.1	20.6	27.0	22.6	17.1

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 n14: 788 MHz ~ 798 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n30: 2305 MHz ~ 2315 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70: 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B13/14/12/17/30/48/4/5/66/71/7
LTE Anchor Bands for n5	LTE B2/30/66/48/4/7
LTE Anchor Bands for n7	LTE B2/12/5/66/4
LTE Anchor Bands for n12	LTE B2/66
LTE Anchor Bands for n25	LTE B12/26/7/66
LTE Anchor Bands for n26	LTE B7
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/25/30/48/71
LTE Anchor Bands for n71	LTE B2/66/48/7
LTE Anchor Bands for n48	LTE B2/5/66/71
LTE Anchor Bands for n41	LTE B26/4/5/12/66/25/2/71
LTE Anchor Bands for n77	LTE B7/12/13/14/25/26/2/30/41/5/66/71
LTE Anchor Bands for n78	LTE B2/4/26/7/12/38/41/66/71/13/25/5

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

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

NR Band 7															
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520	505000	2525
M 507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H 513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	509000	2545

NR Band 12						
Bandwidth 5MHz		Bandwidth 10MHz			Bandwidth 15MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)
L 140300	701.5	140800	704		141300	706.5
M 141500	707.5	141500	707.5		141500	707.5
H 142700	713.5	142200	711		141700	708.5

NR Band 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 14				
	Bandwidth 5MHz		Bandwidth 10MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	158100	790.5	158600	793
M	158600	793		
H	159100	795.5		

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

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

NR Band 30				
	Bandwidth 5MHz		Bandwidth 10MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	461500	2307.5	462000	2310
M	462000	2310		
H	462500	2312.5		

NR Band 66																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000	1730
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352500	1762.5	352000	1760

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

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

NR Band 38												
	Bandwidth10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	515004	2575.02	515502	2577.51	516000	2580	516504	2582.52	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	522996	2614.98	522498	2612.49	522000	2610	521496	2607.48	520998	2604.99	519996	2599.98



NR Band 41																											
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 45MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 500202	22501.01	500700	2503.5	501204	2506.02	501702	2508.51	502200	2511	502704	2513.52	503202	2516.01	503700	2518.5	504204	2521.02	505200	2526	500202	2501.01	507204	2536.02	508200	2541	509202	2546.01
M 518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H 537000	2685	536496	2682.48	535998	2679.99	535500	2677.5	534996	2674.98	534498	2672.49	534000	2670	533496	2667.48	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

NR Band 77 SCS30KHz																									
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz			
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750	
M	656000	3840	656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930	

NR Band 78 SCS30KHz																										
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz				
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02				
M	650000	3750	650000	3750	650000	3750	650000	3750.00	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.5	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98				

NR Band 48											
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 60MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	637000	3555	637168	3557.52	637334	3560.01	637668	3565.02	638000	3570	
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	
H	646332	3694.98	646166	3692.49	646000	3690	645666	3684.99	645332	3679.98	

NR Band 77 SCS30KHz																									
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz			
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495			
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99			

NR Band 78 SCS30KHz																										
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz				
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495				
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99				

<For NR Overlap Bands Description>

1) NR Bands BW

Band	Duplex	SCS(KHz)	Bandwidths(BW)
FR1 n5	FDD	15	5,10,15,20
FR1 n26	FDD	15	5,10,15,20
FR1 n2	FDD	15	5,10,15,20,25,30,35,40
FR1 n25	FDD	15	5,10,15,20,25,30,35,40
FR1 n38	TDD	30	10,15,20,25,30,40
FR1 n41	TDD	30	10,15,20,25,30,35,40,45,50,60,70,80,90,100
FR1 n77	TDD	30	10,15,20,25,30,40,50,60,70,80,90,100
FR1 n78	TDD	30	10,15,20,25,30,40,50,60,70,80,90,100



2) NR Bands Tune up:

Band	Ant	Full	ECI2	ECI3	ECI4	ECI6	ECI7
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit
FR1 n5	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
FR1 n5	Ant 1	24.0	20.0	22.0	24.0	24.0	20.5
FR1 n26	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
FR1 n26	Ant 1	24.0	20.0	22.0	24.0	24.0	20.5
FR1 n2	Ant 2	24.0	24.0	22.0	24.0	23.0	19.5
FR1 n2	Ant 9	24.0	18.5	19.0	24.0	22.0	15.5
FR1 n2	Ant 1	24.0	17.0	19.0	24.0	22.0	16.0
FR1 n25	Ant 2	24.0	24.0	22.0	24.0	23.0	19.5
FR1 n25	Ant 9	24.0	18.5	19.0	24.0	22.0	15.5
FR1 n25	Ant 1	24.0	17.0	19.0	24.0	22.0	16.0
FR1 n38	Ant 2	24.0	24.0	21.5	24.0	22.0	19.0
FR1 n38	Ant 9	24.0	17.5	17.0	24.0	22.5	15.0
FR1 n38	Ant 1	24.0	15.0	18.0	24.0	18.5	13.5
FR1 n38	Ant 0	24.0	24.0	23.5	24.0	24.0	23.5
FR1 n41 PC3	Ant 2	24.0	24.0	21.5	24.0	22.0	19.0
FR1 n41 PC2	Ant 2	27.0	27.0	24.5	27.0	25.0	22.0
FR1 n41 PC3	Ant 9	24.0	17.5	17.0	24.0	22.5	15.0
FR1 n41 PC2	Ant 9	27.0	20.5	20.0	27.0	25.5	18.0
FR1 n41 PC3	Ant 1	24.0	15.0	18.0	24.0	18.5	13.5
FR1 n41 PC2	Ant 1	27.0	18.0	21.0	27.0	21.5	16.5
FR1 n41 PC3	Ant 0	24.0	24.0	23.5	24.0	24.0	23.5
FR1 n41 PC2	Ant 0	27.0	27.0	26.5	27.0	27.0	26.5
FR1 n77 PC3	Ant 7	24.0	13.5	15.0	24.0	17.5	12.5
FR1 n77 PC2	Ant 7	27.0	16.5	18.0	27.0	20.5	15.5
FR1 n77 PC3	Ant 5	24.0	12.5	16.5	24.0	17.0	15.0
FR1 n77 PC2	Ant 5	27.0	15.5	19.5	27.0	20.0	18.0
FR1 n77 PC3	Ant 10	24.0	24.0	15.5	24.0	24.0	14.0
FR1 n77 PC2	Ant 10	27.0	27.0	18.5	27.0	27.0	17.0
FR1 n77 PC3	Ant 4	24.0	14.5	18.5	24.0	20.0	15.0
FR1 n77 PC2	Ant 4	27.0	17.5	21.5	27.0	23.0	18.0
FR1 n78 PC3	Ant 7	24.0	13.5	15.0	24.0	17.5	12.5
FR1 n78 PC2	Ant 7	27.0	16.5	18.0	27.0	20.5	15.5
FR1 n78 PC3	Ant 5	24.0	12.5	16.5	24.0	17.0	15.0
FR1 n78 PC2	Ant 5	27.0	15.5	19.5	27.0	20.0	18.0
FR1 n78 PC3	Ant 10	24.0	24.0	15.5	24.0	24.0	14.0
FR1 n78 PC2	Ant 10	27.0	27.0	18.5	27.0	27.0	17.0
FR1 n78 PC3	Ant 4	24.0	14.5	18.5	24.0	20.0	15.0
FR1 n78 PC2	Ant 4	27.0	17.5	21.5	27.0	23.0	18.0

5. TA-SAR feature for RF Exposure compliance

WWAN bands and mmWave are all enabled with MediaTek TA-SAR feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Note that WLAN/BT operations are not enabled with TA-SAR feature.

The FCC RF exposure limit is defined based on time-averaged RF exposure. The product implements MediaTek TA-SAR feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window, for SAR (transmit frequency $\leq 6\text{GHz}$). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

The P_{limit} values correspond to SAR_{design_target}. The power will be fixed at the static reduce power level at different exposure conditions for RF exposure compliance. For the GSM (TDD) P_{limit} power levels in the table correspond to the burst average power levels which don't account for TX duty cycle.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for TA-SAR algorithm. SAR char will be entered via the MediaTek's NV suggestion to enable the TA-SAR Feature.

<Terminologies in this report>

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

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for TA-SAR algorithm to control and manage RF exposure for f < 6 GHz.

SPLSR_Group (Antenna Group):

Antenna Group 0 (AG0)	ANT0 & ANT2
Antenna Group 1 (AG1)	ANT1 & ANT4 & ANT5 & ANT7 & ANT9& ANT10

<SAR design target and uncertainty>

Item	Uncertainty dB (k=2)
Total uncertainty	1.5

To account for total uncertainty, SAR_{design_target} should be determined as:

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

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

TA-SAR allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit.

<Plimit for supported technologies and bands >

Band	Antenna	Head Rec on	Body Sensor on	Body Sensor off	Extremity Sensor on	Hotspot	Pmax*
		ECI2	ECI3	ECI4	ECI6	DSI7	
GSM850	Ant 0	30.30	24.00	25.50	28.10	24.00	25.5
GSM1900	Ant 2	30.50	21.00	22.50	23.40	19.50	22.5
WCDMA II	Ant 2	29.40	21.00	23.00	22.00	19.50	23.0
WCDMA IV	Ant 2	29.00	21.50	23.00	22.50	19.50	23.0
WCDMA V	Ant 0	28.70	23.90	23.00	23.00	23.90	23.0
LTE Band 2	Ant 2	29.40	21.00	23.00	22.50	19.00	23.0
LTE Band 2	Ant 9	18.00	18.00	23.00	21.50	15.00	23.0
LTE Band 2	Ant 1	15.00	16.50	23.00	20.50	14.50	23.0
LTE Band 4	Ant 2	29.00	20.50	23.00	22.00	18.50	23.0
LTE Band 4	Ant 9	19.00	19.50	23.00	22.00	16.00	23.0
LTE Band 4	Ant 1	16.00	18.00	23.00	20.50	15.50	23.0
LTE Band 5	Ant 0	27.70	23.10	23.00	25.20	23.10	23.0
LTE Band 5	Ant 1	20.50	20.50	23.00	23.80	18.50	23.0
LTE Band 7	Ant 2	28.20	20.50	23.00	20.50	18.50	23.0
LTE Band 7	Ant 9	16.00	15.50	23.00	20.50	15.00	23.0
LTE Band 7	Ant 1	13.50	14.50	23.00	17.50	11.50	23.0
LTE Band 12	Ant 0	28.90	23.90	23.00	24.90	23.00	23.0
LTE Band 12	Ant 1	21.50	23.40	23.00	23.00	20.00	23.0
LTE Band 13	Ant 0	29.00	23.40	23.00	26.00	23.10	23.0
LTE Band 13	Ant 1	20.00	20.50	23.00	23.00	20.00	23.0
LTE Band 14	Ant 0	28.00	23.10	23.00	24.60	23.00	23.0
LTE Band 14	Ant 1	18.50	20.00	23.00	24.80	18.00	23.0
LTE Band 17	Ant 0	28.90	23.90	23.00	24.90	23.00	23.0
LTE Band 17	Ant 1	21.50	23.40	23.00	23.00	20.00	23.0
LTE Band 25	Ant 2	29.40	21.00	23.00	22.50	19.00	23.0
LTE Band 25	Ant 9	18.00	18.00	23.00	21.50	15.00	23.0
LTE Band 25	Ant 1	15.00	16.50	23.00	20.50	14.50	23.0
LTE Band 26	Ant 0	27.70	23.10	23.00	25.20	23.10	23.0
LTE Band 26	Ant 1	20.50	20.50	23.00	23.80	18.50	23.0
LTE Band 30	Ant 2	27.40	20.00	23.00	21.00	18.50	23.0
LTE Band 30	Ant 1	13.00	14.50	23.00	18.50	11.50	23.0
LTE Band 66	Ant 2	29.00	20.50	23.00	22.00	18.50	23.0
LTE Band 66	Ant 9	19.00	19.50	23.00	22.00	16.00	23.0
LTE Band 66	Ant 1	16.00	18.00	23.00	20.50	15.50	23.0
LTE Band 71	Ant 0	29.30	23.30	23.00	23.00	23.80	23.0
LTE Band 71	Ant 1	23.70	23.40	23.00	23.00	21.00	23.0
LTE Band 38	Ant 2	28.60	20.00	21.00	21.60	18.00	21.0
LTE Band 38	Ant 9	17.00	16.00	21.00	20.00	15.50	21.0
LTE Band 38	Ant 1	14.00	15.50	21.00	17.50	12.00	21.0
LTE Band 41(PC3)	Ant 2	28.60	20.50	22.40	22.50	18.50	21.0
LTE Band 41(PC2)	Ant 2	28.60	20.50	22.40	22.50	18.50	22.4
LTE Band 41(PC3)	Ant 9	17.00	16.50	22.40	20.50	16.00	21.0
LTE Band 41(PC2)	Ant 9	17.00	16.50	22.40	20.50	16.00	22.4
LTE Band 41(PC3)	Ant 1	14.50	16.00	22.40	18.00	12.50	21.0
LTE Band 41(PC2)	Ant 1	14.50	16.00	22.40	18.00	12.50	22.4
LTE Band 42	Ant 7	12.50	14.00	21.00	16.50	12.50	21.0



FCC SAR Test Report

Report No. : FA612609

LTE Band 48	Ant 7	12.00	13.00	21.00	17.50	10.50	21.0
LTE Band 48	Ant 5	13.00	17.50	21.00	18.00	15.50	21.0
FR1 n2	Ant 2	30.20	21.00	23.00	22.00	18.50	23.0
FR1 n2	Ant 9	17.50	18.00	23.00	21.00	14.50	23.0
FR1 n2	Ant 1	16.00	18.00	23.00	21.00	15.00	23.0
FR1 n5	Ant 0	28.80	23.10	23.00	25.20	23.80	23.0
FR1 n5	Ant 1	19.00	21.00	23.00	23.80	19.50	23.0
FR1 n7	Ant 2	27.90	20.50	23.00	21.00	19.00	23.0
FR1 n7	Ant 1	13.50	15.50	23.00	17.00	12.00	23.0
FR1 n12	Ant 0	30.70	24.60	23.00	23.00	23.60	23.0
FR1 n12	Ant 1	21.50	23.60	23.00	23.00	21.50	23.0
FR1 n13	Ant 0	29.80	23.80	23.00	23.00	23.70	23.0
FR1 n13	Ant 1	20.00	21.50	23.00	23.00	20.00	23.0
FR1 n14	Ant 0	27.60	23.20	23.00	23.00	23.20	23.0
FR1 n14	Ant 1	20.50	22.00	23.00	23.00	20.00	23.0
FR1 n25	Ant 2	30.20	21.00	23.00	22.00	18.50	23.0
FR1 n25	Ant 9	17.50	18.00	23.00	21.00	14.50	23.0
FR1 n25	Ant 1	16.00	18.00	23.00	21.00	15.00	23.0
FR1 n26	Ant 0	28.80	23.10	23.00	25.20	23.80	23.0
FR1 n26	Ant 1	19.00	21.00	23.00	23.80	19.50	23.0
FR1 n30	Ant 2	27.30	20.00	23.00	21.50	18.00	23.0
FR1 n30	Ant 1	14.50	15.50	21.50	18.00	11.50	21.5
FR1 n66	Ant 2	30.00	20.50	23.00	21.50	19.50	23.0
FR1 n66	Ant 9	18.00	19.00	23.00	21.50	16.50	23.0
FR1 n66	Ant 1	16.00	18.00	23.00	20.00	16.00	23.0
FR1 n70	Ant 2	30.90	21.50	23.00	22.50	20.50	23.0
FR1 n70	Ant 9	19.00	18.00	23.00	21.50	16.50	23.0
FR1 n70	Ant 1	16.50	18.50	23.00	21.50	16.00	23.0
FR1 n71	Ant 0	30.20	24.20	23.00	23.00	23.90	23.0
FR1 n71	Ant 1	22.50	23.50	23.00	23.00	21.50	23.0
FR1 n38	Ant 2	28.00	20.50	23.00	21.00	18.00	23.0
FR1 n38	Ant 9	16.50	16.00	23.00	21.50	14.00	23.0
FR1 n38	Ant 1	14.00	17.00	23.00	17.50	12.50	23.0
FR1 n38	Ant 0	29.40	22.50	23.00	23.50	22.50	23.0
FR1 n41 PC3	Ant 2	28.00	20.50	23.00	21.00	18.00	23.0
FR1 n41 PC2	Ant 2	28.00	20.50	23.00	21.00	18.00	23.0
FR1 n41 PC3	Ant 9	16.50	16.00	23.00	21.50	14.00	23.0
FR1 n41 PC2	Ant 9	16.50	16.00	23.00	21.50	14.00	23.0
FR1 n41 PC3	Ant 1	14.00	17.00	23.00	17.50	12.50	23.0
FR1 n41 PC2	Ant 1	14.00	17.00	23.00	17.50	12.50	23.0
FR1 n41 PC3	Ant 0	29.40	22.50	23.00	23.50	22.50	23.0
FR1 n41 PC2	Ant 0	29.40	22.50	23.00	23.50	22.50	23.0
FR1 n48	Ant 7	13.50	14.00	23.00	18.00	12.50	23.0
FR1 n48	Ant 5	13.00	18.00	23.00	17.50	16.00	23.0
FR1 n48	Ant 10	29.40	16.00	23.00	26.00	14.00	23.0
FR1 n48	Ant 4	13.50	18.00	23.00	19.00	14.50	23.0
FR1 n77 PC3	Ant 7	12.50	14.00	23.00	16.50	11.50	23.0
FR1 n77 PC2	Ant 7	12.50	14.00	23.00	16.50	11.50	23.0
FR1 n77 PC3	Ant 5	11.50	15.50	23.00	16.00	14.00	23.0
FR1 n77 PC2	Ant 5	11.50	15.50	23.00	16.00	14.00	23.0
FR1 n77 PC3	Ant 10	25.50	14.50	23.00	23.70	13.00	23.0
FR1 n77 PC2	Ant 10	25.50	14.50	23.00	23.70	13.00	23.0
FR1 n77 PC3	Ant 4	13.50	17.50	23.00	19.00	14.00	23.0
FR1 n77 PC2	Ant 4	13.50	17.50	23.00	19.00	14.00	23.0
FR1 n78 PC3	Ant 7	12.50	14.00	23.00	16.50	11.50	23.0
FR1 n78 PC2	Ant 7	12.50	14.00	23.00	16.50	11.50	23.0



FR1 n78 PC3	Ant 5	11.50	15.50	23.00	16.00	14.00	23.0
FR1 n78 PC2	Ant 5	11.50	15.50	23.00	16.00	14.00	23.0
FR1 n78 PC3	Ant 10	25.50	14.50	23.00	23.70	13.00	23.0
FR1 n78 PC2	Ant 10	25.50	14.50	23.00	23.70	13.00	23.0
FR1 n78 PC3	Ant 4	13.50	17.50	23.00	19.00	14.00	23.0
FR1 n78 PC2	Ant 4	13.50	17.50	23.00	19.00	14.00	23.0

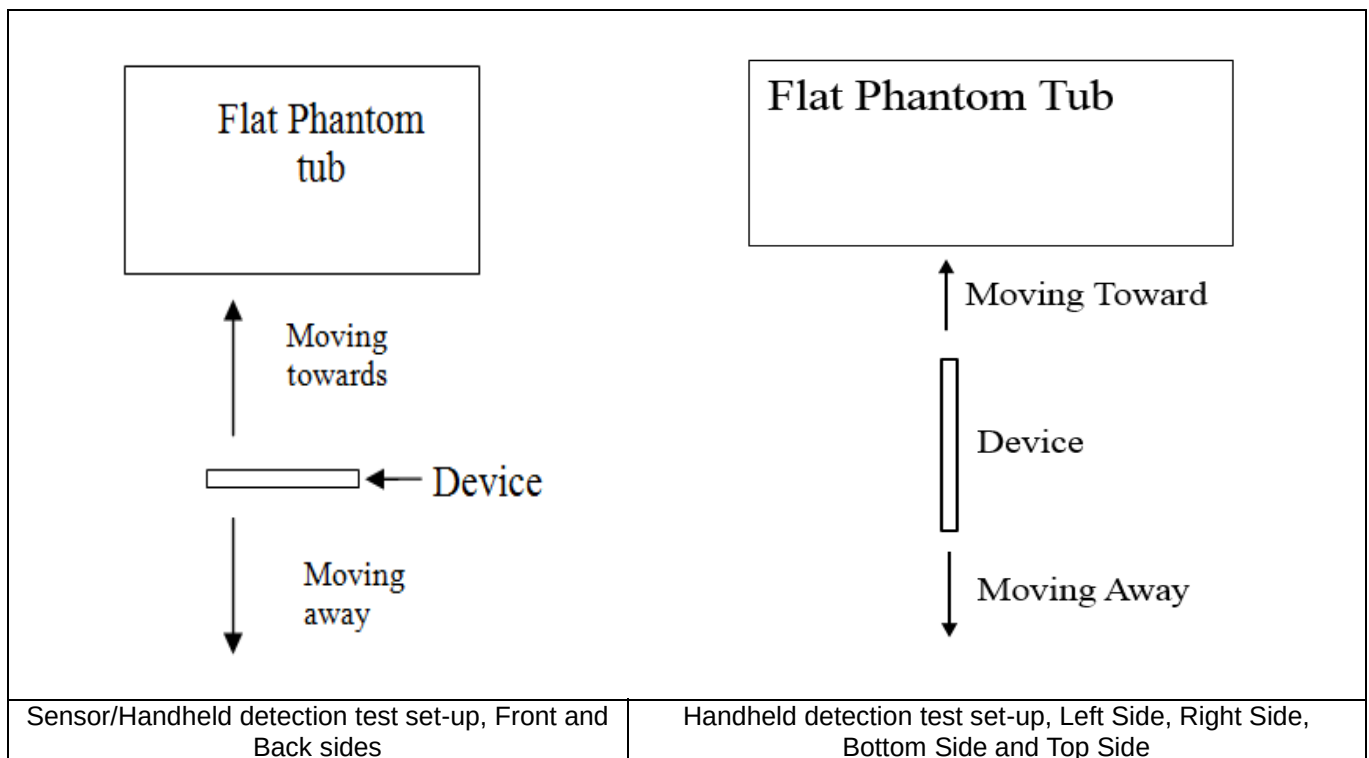
Note:

- 1) * $P_{\max}$ is used for RF tune up procedure. The maximum allowed output power is equal to $P_{\max}$ + total uncertainty.
- 2) All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).
- 3) The max allowed output power is the P_{limit} + total uncertainty, and if P_{limit} is higher than $P_{\max}$, the device output power will be $P_{\max}$ instead.

6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (7125MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device.
3. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
4. The sensors used to detect the proximity of the user's body at the front or back surface of the device use a detection threshold distance. The data shown in the sections below shows the distance(s). When front or back body worn condition is detected reduced power will be active.
5. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/top/bottom/left/right sides of the device. When front/back/top/bottom/left/right sides of handheld condition is detected reduced power will be active.
6. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed:



<P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	20	25	23	26

<Handheld for ANT 1>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	11	16	17	22	8	12	17	22

<Handheld for ANT2>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	8	13	6	9	12	17

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

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	8	12	9	13	11	16	9	15

<Handheld for ANT7/9>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Left Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	8	12	11	15	13	18

7. RF Exposure Limits

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

7.3 RF Exposure limit for above 6GHz

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

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

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

Note: 1.0 mW/cm² is 10 W/m²

8. Specific Absorption Rate (SAR)

8.1 Introduction

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

8.2 SAR Definition

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

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

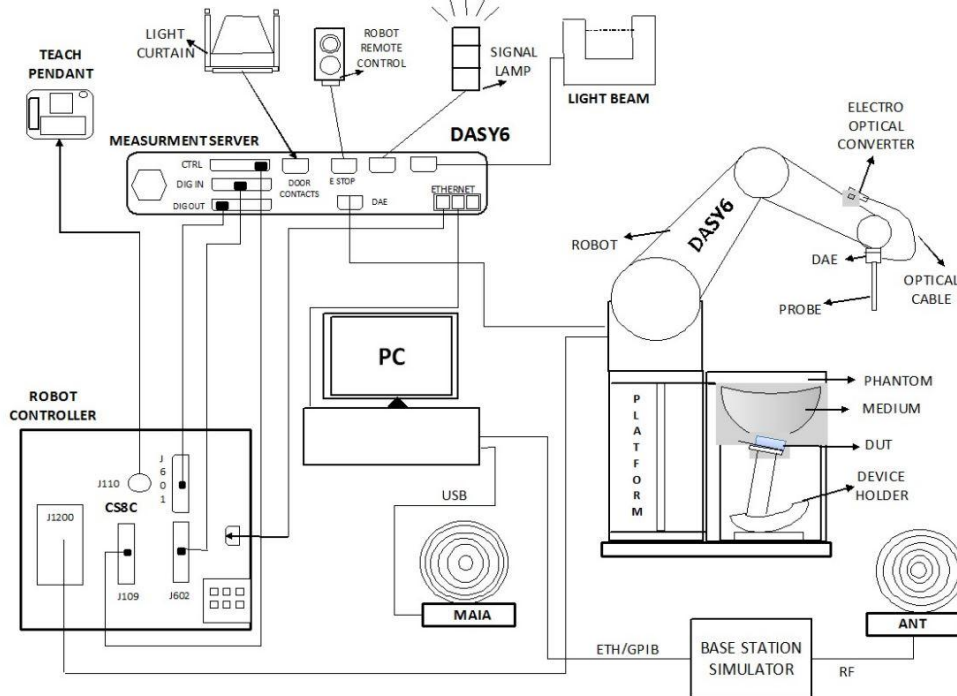
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

9. System Description and Setup

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 or Win10 and the DASY5 or DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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

9.1 E-Field Probe

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

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – 10 GHz Linearity: ± 0.2 dB (30 MHz – 10 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

9.2 Data Acquisition Electronics (DAE)

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

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



Photo of DAE

9.3 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

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

9.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

10. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

10.1 Spatial Peak SAR Evaluation

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

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

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

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

10.2 Power Reference Measurement

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

10.3 Area Scan

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

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

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

10.4 Zoom Scan

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

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

			$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
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 $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

10.5 Volume Scan Procedures

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

10.6 Power Drift Monitoring

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

11. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	Mar. 12, 2025	Mar. 11, 2026
SPEAG	835MHz System Validation Kit	D835V2	4d167	Dec. 02, 2025	Dec. 01, 2026
SPEAG	1750MHz System Validation Kit	D1750V2	1090	Mar. 12, 2025	Mar. 11, 2026
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	Jun. 30, 2025	Jun. 29, 2026
SPEAG	2300MHz System Validation Kit	D2300V2	1055	Aug. 21, 2023	Aug. 19, 2026
SPEAG	2450MHz System Validation Kit	D2450V2	929	Nov. 12, 2025	Nov. 11, 2026
SPEAG	2600MHz System Validation Kit	D2600V2	1089	Mar. 13, 2025	Mar. 12, 2026
SPEAG	3500MHz System Validation Kit	D3500V2	1076	Apr. 16, 2025	Apr. 15, 2026
SPEAG	3700MHz System Validation Kit	D3700V2	1037	Apr. 16, 2025	Apr. 15, 2026
SPEAG	3900MHz System Validation Kit	D3900V2	1022	Aug. 13, 2025	Aug. 12, 2026
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	Sep. 17, 2025	Sep. 16, 2026
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1003	Mar. 14, 2025	Mar. 13, 2026
SPEAG	5G Verification Source	10GHz	2002	Feb. 17, 2026	Feb. 16, 2027
SPEAG	Data Acquisition Electronics	DAE4	1386	Sep. 15, 2025	Sep. 14, 2026
SPEAG	Data Acquisition Electronics	DAE4	1210	Nov. 28, 2025	Nov. 27, 2026
SPEAG	Data Acquisition Electronics	DAE4	1437	Apr. 16, 2025	Apr. 15, 2026
SPEAG	Data Acquisition Electronics	DAE4	715	Nov. 28, 2025	Nov. 27, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7641	Jun. 26, 2025	Jun. 25, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	3819	Sep. 11, 2025	Sep. 10, 2026
SPEAG	EUmmWV Probe Tip Protection	EUmmWV3	9461	Oct. 15, 2025	Oct. 14, 2026
SPEAG	SAM Twin Phantom	QD 000 P40 CD	1671	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	1670	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	1795	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Jul. 03, 2025	Jul. 02, 2026
Anritsu	Radio communication analyzer	MT8821C	6262314715	Jul. 03, 2025	Jul. 02, 2026
Anritsu	Radio communication analyzer	MT8821C	6272278319	Jul. 03, 2025	Jul. 02, 2026
Agilent	Wireless Communication Test Set	E5515C	MY50267224	Jul. 04, 2025	Jul. 03, 2026
Keysight	Network Analyzer	E5071C	MY46523671	Oct. 14, 2025	Oct. 13, 2026
Speag	Dielectric Assessment KIT	DAK-3.5	1144	Aug. 26, 2025	Aug. 25, 2026
Agilent	Signal Generator	N5181A	MY50145381	Dec. 25, 2025	Dec. 24, 2026
R&S	Signal Generator	SMB100A	175779	Dec. 24, 2025	Dec. 23, 2026
Anritsu	Power Sensor	MA2411B	1306099	Oct. 14, 2025	Oct. 13, 2026
Anritsu	Power Meter	ML2495A	1349001	Oct. 14, 2025	Oct. 13, 2026
R&S	Power Sensor	NRP50S	101254	Apr. 01, 2025	Mar. 31, 2026
R&S	Power Sensor	NRP50S	101548	Dec. 25, 2025	Dec. 24, 2026
R&S	Power Sensor	NRP251	103113	Apr. 01, 2025	Mar. 31, 2026
R&S	Power Sensor	NRP8S	109228	Apr. 01, 2025	Mar. 31, 2026
R&S	CBT BLUETOOTH TESTER	CBT	100963	Dec. 24, 2025	Dec. 23, 2026
R&S	Spectrum Analyzer	FSP7	100818	Jul. 03, 2025	Jul. 02, 2026
TES	Hygrometer	1310	200505600	Jul. 05, 2025	Jul. 04, 2026
Anymetre	Thermo-Hygrometer	JR593	2015030903	Dec. 26, 2025	Dec. 25, 2026
Anymetre	Thermo-Hygrometer	JR593	2015102801	Oct. 17, 2025	Oct. 16, 2026
Anymetre	Thermo-Hygrometer	JR593	2018100802	Oct. 17, 2025	Oct. 16, 2026
SPEAG	Device Holder	N/A	N/A	N/A	N/A
AR	Amplifier	5S1G4	0333096	Note 1	
Mini-Circuits	Amplifier	ZVE-3W-83+	599201528	Note 1	
Mini-Circuits	Amplifier	ZVA-183W-S+	726202215	Note 1	
ARRA	Power Divider	A3200-2	N/A	Note 1	
ET Industries	Dual Directional Coupler	C-058-10	N/A	Note 1	
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4BMC1	Note 1	

Jinkexinhua	Attenuator	10db-8G	N/A	Note 1
Weinschel	Attenuator 2	3M-20	N/A	Note 1

Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check.
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

12. System Verification

12.1 Tissue Simulating Liquids

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

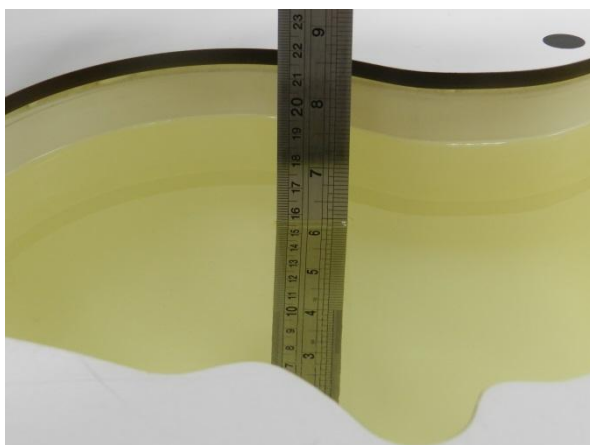


Fig 11.1 Photo of Liquid Height for Head SAR



Fig 11.2 Photo of Liquid Height for Body SAR

12.2 Tissue Verification

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

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

Simulating Liquid for 5GHz, Manufactured by SPEAG

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

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp (°C)	Conductivity (σ)	Permittivity (εr)	Conductivity Target (σ)	Permittivity Target (εr)	Delta (σ) (%)	Delta (εr) (%)	Limit (%)	Date
750	Head	22.4	0.921	42.980	0.89	41.90	3.48	2.58	±5	2026/2/2
750	Head	22.3	0.914	42.505	0.89	41.90	2.70	1.44	±5	2026/2/11
750	Head	22.4	0.918	42.626	0.89	41.90	3.15	1.73	±5	2026/2/28
835	Head	22.2	0.882	43.320	0.90	41.50	-2.00	4.39	±5	2026/2/6
835	Head	22.4	0.940	42.235	0.90	41.50	4.44	1.77	±5	2026/2/16
835	Head	22.3	0.943	42.294	0.90	41.50	4.78	1.91	±5	2026/3/1
1750	Head	22.5	1.384	39.595	1.37	40.10	1.02	-1.26	±5	2026/2/3
1750	Head	22.4	1.376	40.743	1.37	40.10	0.44	1.60	±5	2026/2/12
1750	Head	22.3	1.378	40.529	1.37	40.10	0.58	1.07	±5	2026/3/6
1900	Head	22.5	1.386	41.191	1.40	40.00	-1.00	2.98	±5	2026/2/10
1900	Head	22.3	1.453	40.437	1.40	40.00	3.79	1.09	±5	2026/2/17
1900	Head	22.4	1.449	40.252	1.40	40.00	3.50	0.63	±5	2026/3/5
2300	Head	22.4	1.646	39.214	1.67	39.50	-1.44	-0.72	±5	2026/2/4
2300	Head	22.5	1.623	40.066	1.67	39.50	-2.81	1.43	±5	2026/2/13
2300	Head	22.4	1.621	40.022	1.67	39.50	-2.93	1.32	±5	2026/3/4
2450	Head	22.3	1.775	39.513	1.80	39.20	-1.39	0.80	±5	2026/2/20
2450	Head	22.4	1.738	39.829	1.80	39.20	-3.44	1.60	±5	2026/2/21
2450	Head	22.5	1.736	39.771	1.80	39.20	-3.56	1.46	±5	2026/3/8
2600	Head	22.3	1.897	39.407	1.96	39.00	-3.21	1.04	±5	2026/2/5
2600	Head	22.4	1.966	39.427	1.96	39.00	0.31	1.09	±5	2026/2/18
2600	Head	22.3	1.958	39.236	1.96	39.00	-0.10	0.61	±5	2026/3/3
3500	Head	22.4	2.868	37.470	2.91	37.90	-1.44	-1.13	±5	2026/2/7
3500	Head	22.7	2.790	39.200	2.91	37.90	-4.12	3.43	±5	2026/2/14
3500	Head	22.4	2.807	39.447	2.91	37.90	-3.54	4.08	±5	2026/3/7
3700	Head	22.3	3.022	37.227	3.12	37.70	-3.14	-1.25	±5	2026/2/9
3700	Head	22.7	3.100	38.900	3.12	37.70	-0.64	3.18	±5	2026/2/15
3700	Head	22.4	2.993	39.078	3.12	37.70	-4.07	3.66	±5	2026/3/5
3900	Head	22.4	3.181	37.006	3.33	37.51	-4.47	-1.34	±5	2026/2/8
3900	Head	22.6	3.200	38.600	3.33	37.51	-3.90	2.91	±5	2026/2/19
3900	Head	22.5	3.187	38.750	3.33	37.51	-4.29	3.31	±5	2026/3/10
5250	Head	22.4	4.545	35.029	4.71	35.95	-3.50	-2.56	±5	2026/2/23



FCC SAR Test Report

Report No. : FA612609

5250	Head	22.7	4.590	36.200	4.71	35.95	-2.55	0.70	±5	2026/2/21
5250	Head	22.4	4.748	37.028	4.71	35.95	0.81	3.00	±5	2026/3/9
5600	Head	22.5	4.927	34.419	5.07	35.50	-2.82	-3.05	±5	2026/2/25
5600	Head	22.6	5.000	35.600	5.07	35.50	-1.38	0.28	±5	2026/2/22
5600	Head	22.4	5.151	36.381	5.07	35.50	1.60	2.48	±5	2026/3/11
5800	Head	22.4	5.143	34.098	5.27	35.30	-2.41	-3.41	±5	2026/2/26
5800	Head	22.7	5.230	35.300	5.27	35.30	-0.76	0.00	±5	2026/2/24
5800	Head	22.4	5.414	35.996	5.27	35.30	2.73	1.97	±5	2026/3/2
6500	Head	22.5	6.080	34.000	6.07	34.50	0.16	-1.45	±5	2026/2/27
6500	Head	22.5	6.090	34.200	6.07	34.50	0.33	-0.87	±5	2026/3/10
835	Head	22.6	0.933	42.500	0.90	41.50	3.65	2.41	±5	2026/3/10
2450	Head	22.3	1.860	39.800	1.80	39.20	3.33	1.53	±5	2026/3/11
2600	Head	22.4	1.990	39.400	1.96	39.00	1.53	1.03	±5	2026/3/12



12.3 System Performance Check Results

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

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2026/2/2	750	Head	250	D750V3-1087	EX3DV4 - SN3819	DAE4 Sn1437	2.210	8.680	8.84	1.84	1.350	5.610	5.4	-3.74
2026/2/11	750	Head	250	D750V3-1087	EX3DV4 - SN3819	DAE4 Sn1437	2.350	8.680	9.4	8.29	1.450	5.610	5.8	3.39
2026/2/28	750	Head	250	D750V3-1087	EX3DV4 - SN3819	DAE4 Sn1437	2.250	8.680	9	3.69	1.530	5.610	6.12	9.09
2026/2/6	835	Head	250	D835V2-4d167	EX3DV4 - SN3819	DAE4 Sn1437	2.280	9.360	9.12	-2.56	1.420	6.050	5.68	-6.12
2026/2/16	835	Head	250	D835V2-4d167	EX3DV4 - SN3819	DAE4 Sn1437	2.560	9.360	10.24	9.40	1.510	6.050	6.04	-0.17
2026/3/1	835	Head	250	D835V2-4d167	EX3DV4 - SN3819	DAE4 Sn1437	2.450	9.360	9.8	4.70	1.650	6.050	6.6	9.09
2026/2/3	1750	Head	250	D1750V2-1090	EX3DV4 - SN3819	DAE4 Sn1437	9.800	36.600	39.2	7.10	5.170	19.500	20.68	6.05
2026/2/12	1750	Head	250	D1750V2-1090	EX3DV4 - SN3819	DAE4 Sn1437	9.600	36.600	38.4	4.92	5.130	19.500	20.52	5.23
2026/3/6	1750	Head	250	D1750V2-1090	EX3DV4 - SN3819	DAE4 Sn1437	9.950	36.600	39.8	8.74	5.270	19.500	21.08	8.10
2026/2/10	1900	Head	250	D1900V2-5d170	EX3DV4 - SN3819	DAE4 Sn1437	10.700	39.600	42.8	8.08	5.640	20.900	22.56	7.94
2026/2/17	1900	Head	250	D1900V2-5d170	EX3DV4 - SN3819	DAE4 Sn1437	10.500	39.600	42	6.06	5.450	20.900	21.8	4.31
2026/3/5	1900	Head	250	D1900V2-5d170	EX3DV4 - SN3819	DAE4 Sn1437	10.600	39.600	42.4	7.07	5.710	20.900	22.84	9.28
2026/2/4	2300	Head	250	D2300V2-1055	EX3DV4 - SN3819	DAE4 Sn1437	12.900	48.400	51.6	6.61	6.130	23.700	24.52	3.46
2026/2/13	2300	Head	250	D2300V2-1055	EX3DV4 - SN3819	DAE4 Sn1437	12.100	48.400	48.4	0.00	5.780	23.700	23.12	-2.45
2026/3/4	2300	Head	250	D2300V2-1055	EX3DV4 - SN3819	DAE4 Sn1437	12.700	48.400	50.8	4.96	6.040	23.700	24.16	1.94
2026/2/20	2450	Head	250	D2450V2-929	EX3DV4 - SN3819	DAE4 Sn1437	14.300	53.300	57.2	7.32	6.550	25.200	26.2	3.97
2026/2/21	2450	Head	250	D2450V2-929	EX3DV4 - SN3819	DAE4 Sn1437	14.100	53.300	56.4	5.82	6.520	25.200	26.08	3.49
2026/3/8	2450	Head	250	D2450V2-929	EX3DV4 - SN3819	DAE4 Sn1437	13.800	53.300	55.2	3.56	6.410	25.200	25.64	1.75
2026/2/5	2600	Head	250	D2600V2-1089	EX3DV4 - SN3819	DAE4 Sn1437	13.900	56.500	55.6	-1.59	6.190	25.600	24.76	-3.28
2026/2/18	2600	Head	250	D2600V2-1089	EX3DV4 - SN3819	DAE4 Sn1437	14.200	56.500	56.8	0.53	6.300	25.600	25.2	-1.56
2026/3/3	2600	Head	250	D2600V2-1089	EX3DV4 - SN3819	DAE4 Sn1437	14.300	56.500	57.2	1.24	6.390	25.600	25.56	-0.16
2026/2/7	3500	Head	100	D3500V2-1076	EX3DV4 - SN3819	DAE4 Sn1386	6.170	65.800	61.7	-6.23	2.370	25.000	23.7	-5.20
2026/2/14	3500	Head	100	D3500V2-1076	EX3DV4 - SN7641	DAE4 Sn1210	6.580	65.800	65.8	0.00	2.540	25.000	25.4	1.60
2026/3/7	3500	Head	100	D3500V2-1076	EX3DV4 - SN3819	DAE4 Sn1386	6.040	65.800	60.4	-8.21	2.320	25.000	23.2	-7.20
2026/2/9	3700	Head	100	D3700V2-1037	EX3DV4 - SN3819	DAE4 Sn1386	7.150	67.000	71.5	6.72	2.640	24.400	26.4	8.20
2026/2/15	3700	Head	100	D3700V2-1037	EX3DV4 - SN7641	DAE4 Sn1210	7.110	67.000	71.1	6.12	2.520	24.400	25.2	3.28
2026/3/5	3700	Head	100	D3700V2-1037	EX3DV4 - SN3819	DAE4 Sn1386	7.080	67.000	70.8	5.67	2.620	24.400	26.2	7.38
2026/2/8	3900	Head	100	D3900V2-1022	EX3DV4 - SN3819	DAE4 Sn1386	7.200	70.100	72	2.71	2.520	24.600	25.2	2.44
2026/2/19	3900	Head	100	D3900V2-1022	EX3DV4 - SN7641	DAE4 Sn1210	7.560	70.100	75.6	7.85	2.580	24.600	25.8	4.88
2026/3/10	3900	Head	100	D3900V2-1022	EX3DV4 - SN3819	DAE4 Sn1386	7.210	70.100	72.1	2.85	2.490	24.600	24.9	1.22
2026/2/23	5250	Head	100	D5GHzV2-1113	EX3DV4 - SN3819	DAE4 Sn1386	8.160	78.100	81.6	4.48	2.250	22.400	22.5	0.45
2026/2/21	5250	Head	100	D5GHzV2-1113	EX3DV4 - SN7641	DAE4 Sn1210	8.110	78.100	81.1	3.84	2.320	22.400	23.2	3.57
2026/3/9	5250	Head	100	D5GHzV2-1113	EX3DV4 - SN3819	DAE4 Sn1386	8.530	78.100	85.3	9.22	2.350	22.400	23.5	4.91
2026/2/25	5600	Head	100	D5GHzV2-1113	EX3DV4 - SN3819	DAE4 Sn1386	8.680	80.000	86.8	8.50	2.380	23.000	23.8	3.48
2026/2/22	5600	Head	100	D5GHzV2-1113	EX3DV4 - SN7641	DAE4 Sn1210	8.250	80.000	82.5	3.13	2.350	23.000	23.5	2.17
2026/3/11	5600	Head	100	D5GHzV2-1113	EX3DV4 - SN3819	DAE4 Sn1386	8.750	80.000	87.5	9.38	2.370	23.000	23.7	3.04
2026/2/26	5800	Head	100	D5GHzV2-1113	EX3DV4 - SN3819	DAE4 Sn1386	8.440	77.900	84.4	8.34	2.370	22.300	23.7	6.28
2026/2/24	5800	Head	100	D5GHzV2-1113	EX3DV4 - SN7641	DAE4 Sn1210	8.450	77.900	84.5	8.47	2.410	22.300	24.1	8.07
2026/3/2	5800	Head	100	D5GHzV2-1113	EX3DV4 - SN3819	DAE4 Sn1386	8.510	77.900	85.1	9.24	2.190	22.300	21.9	-1.79
2026/2/27	6500	Head	100	D6.5GHzV2-1003	EX3DV4 - SN7641	DAE4 Sn1210	32.100	294.000	321	9.18	5.800	54.700	58	6.03
2026/3/10	6500	Head	100	D6.5GHzV2-1003	EX3DV4 - SN7641	DAE4 Sn1210	29.400	294.000	294	0.00	5.360	54.700	53.6	-2.01
2026/3/10	835	Head	250	D835V2-4d167	EX3DV4 - SN7641	DAE4 Sn1210	2.260	9.360	9.04	-3.42	1.500	6.050	6	-0.83
2026/3/11	2450	Head	250	D2450V2-929	EX3DV4 - SN7641	DAE4 Sn1210	12.800	53.300	51.2	-3.94	6.020	25.200	24.08	-4.44
2026/3/12	2600	Head	250	D2600V2-1089	EX3DV4 - SN7641	DAE4 Sn1210	13.700	56.500	54.8	-3.01	6.160	25.600	24.64	-3.75

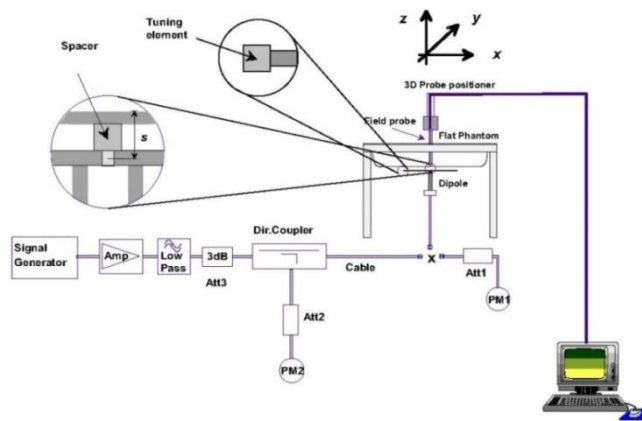


Fig 11.3.1 System Performance Check Setup

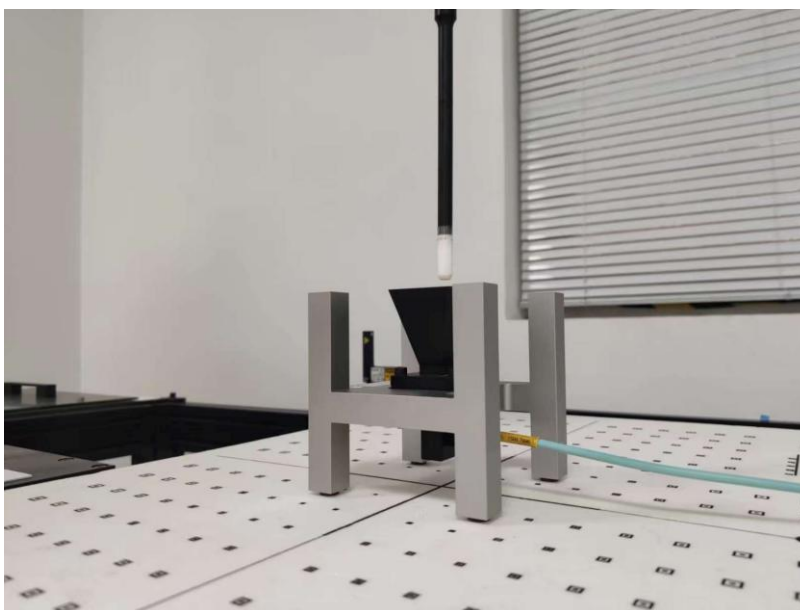


Fig 11.3.2 Setup Photo

12.4 PD System Verification Results

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

Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured psPDn+ 4 cm ² (W/m ²)	Targeted psPDn+ 4 cm ² (W/m ²)	Deviation (dB)	Measured psPDtot+ 4 cm ² (W/m ²)	Targeted psPDtot+ 4 cm ² (W/m ²)	Deviation (dB)	Measured psPDmod+ 4 cm ² (W/m ²)	Targeted psPDmod+ 4 cm ² (W/m ²)	Deviation (dB)	Test date
10	10GHz_2002	9461	715	10	138	175	164	0.28	177	164	0.33	180	169	0.27	2026/3/10



System Verification Setup Photo

13. RF Exposure Positions

13.1 Ear and handset reference point

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

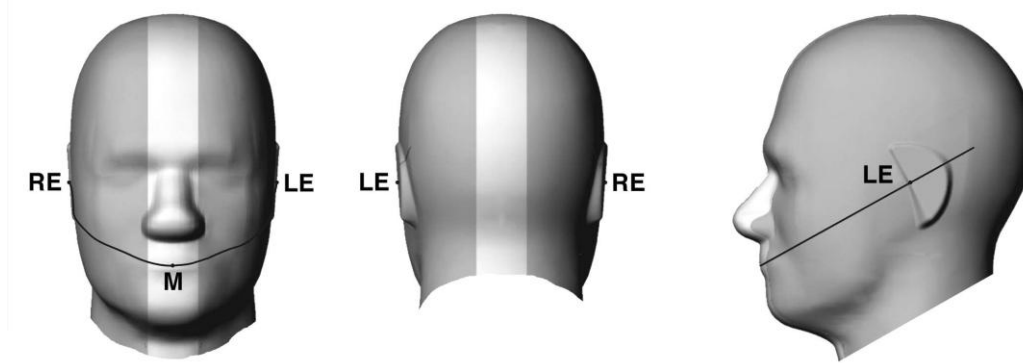


Fig 12.1.1 Front, back, and side views of SAM twin phantom

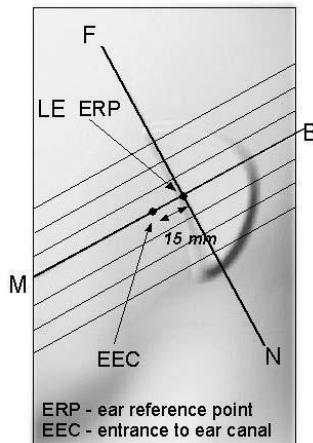


Fig 12.1.2 Close-up side view of phantom showing the ear region.

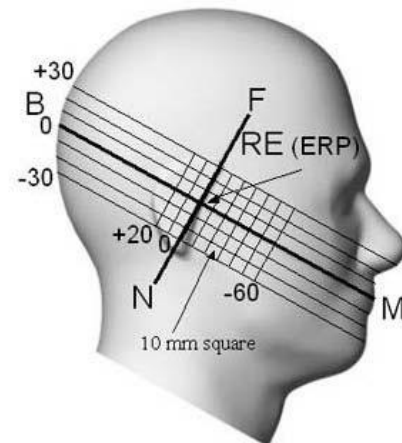


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

13.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 12.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the handset. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.

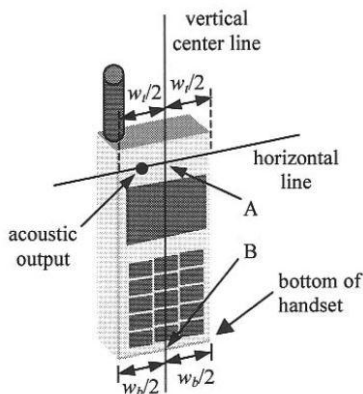


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

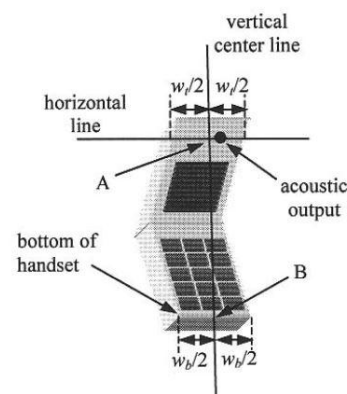


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

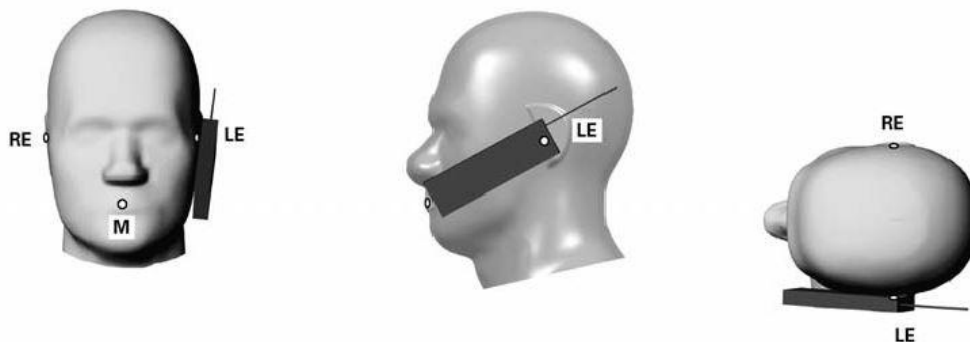


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

13.3 Definition of the tilt position

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

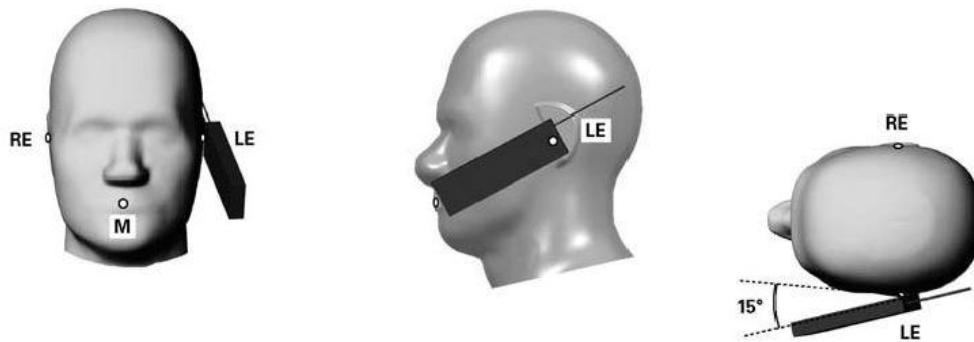


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 Body Worn Accessory

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

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

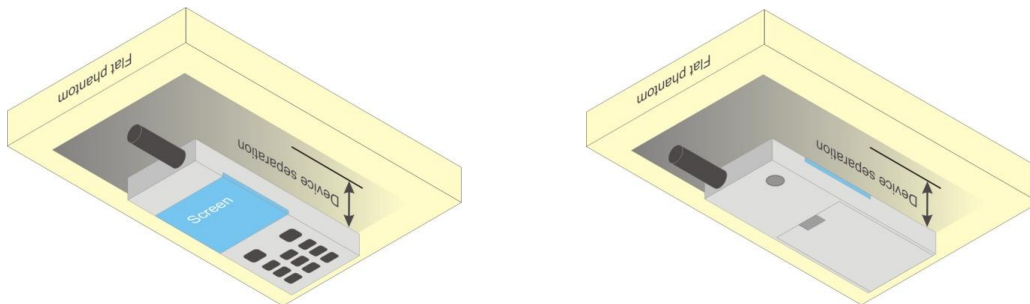


Fig 12.4 Body Worn Position

13.5 Product Specific 10g SAR Exposure

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

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

13.6 Wireless Router

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

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

13.7 Miscellaneous Testing Considerations

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

Adjust measured results per amount that measurement uncertainty exceeds 30 % (see e.g. IEC 62479:2010)

14. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

<WCDMA Conducted Power>

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

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

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

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

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

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

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

Setup Configuration

HSUPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

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

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

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

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set RMC 12.2Kbps + HSDPA mode.
 - ii. Set Cell Power = -25 dBm
 - iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
 - iv. Select HSDPA Uplink Parameters
 - v. Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - a). Subtest 1: $\beta_c/\beta_d=2/15$
 - b). Subtest 2: $\beta_c/\beta_d=12/15$
 - c). Subtest 3: $\beta_c/\beta_d=15/8$
 - d). Subtest 4: $\beta_c/\beta_d=15/4$
 - vi. Set Delta ACK, Delta NACK and Delta CQI = 8
 - vii. Set Ack-Nack Repetition Factor to 3
 - viii. Set CQI Feedback Cycle (k) to 4 ms
 - ix. Set CQI Repetition Factor to 2
 - x. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

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

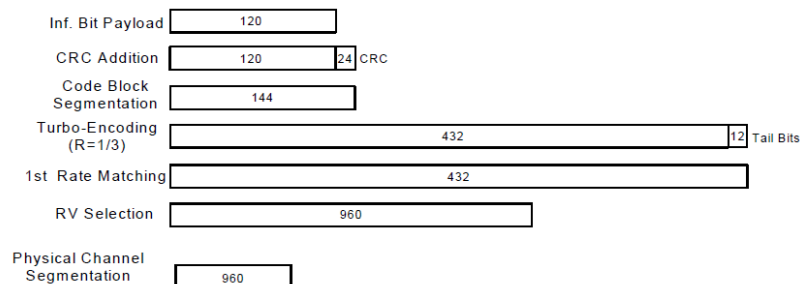


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

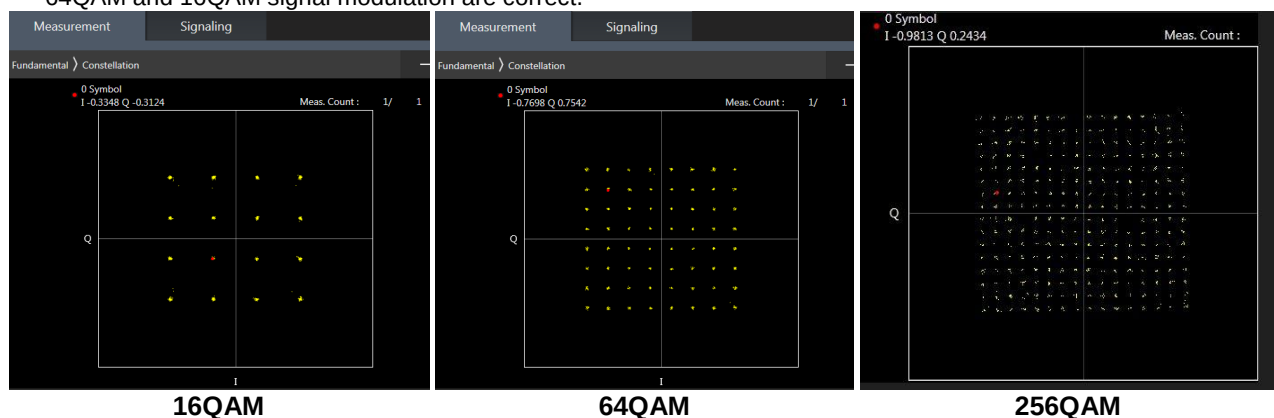
<WCDMA Conducted Power>**General Note:**

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

<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.

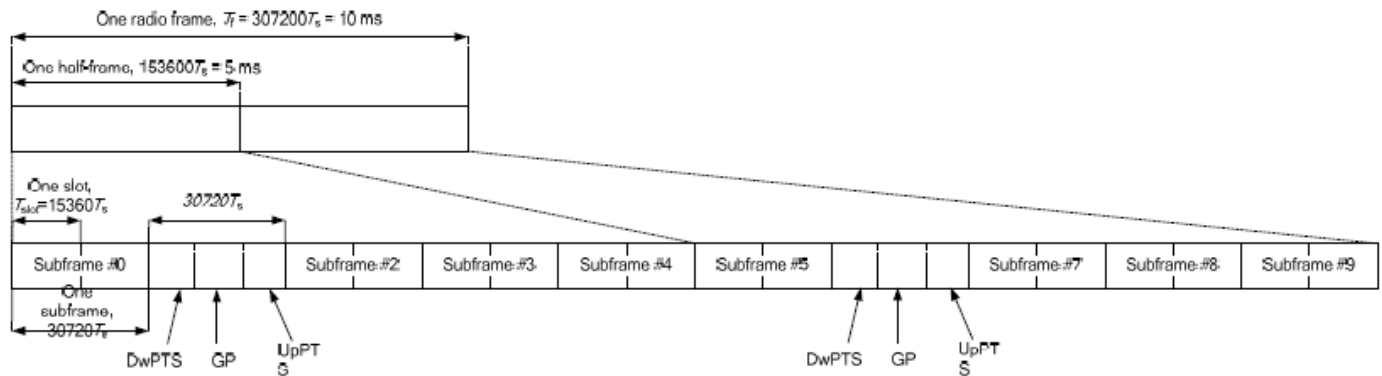


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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 2

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

For LTE TDD Power class 3

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

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

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

<LTE Carrier Aggregation>

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

General Note:

1. Per Oct. 2024 TCB workshop, the downlink (DL) pertains to receiver functionality, thus it is not related to RF exposure compliance limits related to cumulative effects of different transmitters.
2. Per Oct. 2024 TCB workshop, equipment authorization applications shall refer to the worst-case UL powers resulting from all the possible modes of operations. Accordingly, CA-DL cases do not need to be analyzed separately, unless pertinent to establishing UL power setting.
3. Per Oct. 2024 TCB workshop, Manufacturer declares that TX power measurement for multiple DL CA configurations is deemed not required as the DL CA has no impact on the TX power according to preliminary scan. TX power measured in LTE standalone operation represents the worst case.
4. This device supports LTE carrier aggregation in the downlink. All uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.

LTE Carrier Aggregation Conducted Power (Uplink)

2CC Uplink Carrier Aggregation	
Intra CA	TX Ant
CA_41C	Ant 2/1/9/0
CA_48B	Ant 7/5
CA_48C	Ant 7/5
CA_5B	Ant 0/1

<Intra-band>
General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B5/48/41 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iii. Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.
- iv. LTE CA 48B test was covered by 48C, therefore, SAR was only assessed for 48C.

<Inter-band uplink carrier aggregation consideration>

LTE Inter CA	LTE TX0	TX0 Ant	LTE TX1	TX1 Ant
CA_12A-66A	Ant1	12A	Ant2	66A
	Ant1		Ant9	
CA_13A-66A	Ant1	13A	Ant2	66A
	Ant1		Ant9	
CA_14A-66A	Ant1	14A	Ant2	66A
	Ant1		Ant9	
CA_2A-12A	Ant2	2A	Ant1	12A
	Ant9		Ant1	
CA_2A-13A	Ant2	2A	Ant1	13A
	Ant9		Ant1	
CA_2A-14A	Ant2	2A	Ant1	14A
	Ant9		Ant1	
CA_2A-48A	Ant2	2A	Ant5	48A
	Ant1		Ant7	
	Ant9		Ant5	
CA_2A-4A	Ant2	2A	Ant1	4A
	Ant1		Ant2	
	Ant9		Ant1	
	Ant1		Ant9	
CA_2A-5A	Ant2	2A	Ant1	5A
	Ant9		Ant1	
CA_2A-66A	Ant2	2A	Ant1	66A
	Ant1		Ant2	
	Ant9		Ant1	
	Ant1		Ant9	
CA_2A-71A	Ant2	2A	Ant1	71A
	Ant9		Ant1	
CA_48A-66A	Ant5	48A	Ant2	66A
	Ant7		Ant1	
	Ant5		Ant9	
CA_4A-12A	Ant2	4A	Ant1	12A
	Ant9		Ant1	
CA_4A-13A	Ant2	4A	Ant1	13A
	Ant9		Ant1	
CA_4A-5A	Ant2	4A	Ant1	5A
	Ant9		Ant1	
CA_5A-66A	Ant1	5A	Ant2	66A
	Ant1		Ant9	

General Note:

1. The single carrier of inter band CA uplink power level is the same as Non-CA standalone LTE power level.
2. The product implements MediaTek TA-SAR feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR (transmit frequency $\leq 6\text{GHz}$). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.
3. For LTE inter-band CA mode, MediaTek TA-SAR algorithm in WWAN adds directly the time-averaged RF exposure between two LTE bands. TA-SAR algorithm controls the total RF exposure base on LTE inter CA bands to not exceed FCC limit. In Part 1 Report, TA-SAR compliance was evaluated with other Radios (WLAN or BT) using standalone LTE SAR mode.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n25/n26/n12 /n41/n48/n66 /n71/n77/n78 is NSA mode.
2. 5G NR n2/n5/n7/n12/n13/n14/n25/n26/n30/n38/n41/n48/n66/n70/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. For 5G NR n41/n77/n78 HPUE, 5G NR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
5. 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.
6. 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.
7. 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.
8. 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.
9. For 5G NR inter-band CA mode, MediaTek TA-SAR algorithm in WWAN adds directly the time-averaged RF exposure between two 5G NR bands. MediaTek TA-SAR algorithm controls the total RF exposure base on 5G NR inter CA bands to not exceed FCC limit.
10. 5G NR n2/ n25/ n30/n48/n41/n66/n77/n78 supports UL MIMO mode.

<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	LTE TX	LTE Ant	NR TX	NR Ant
DC_12A_n25A	12A	Ant0	n25A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_12A_n2A	12A	Ant0	n2A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_12A_n41A	12A	Ant0	n41A	Ant2
		Ant1		Ant2
		Ant0		Ant9
		Ant1		Ant9
		Ant0		Ant1
		Ant1		Ant0
DC_12A_n66A	12A	Ant0	n66A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_12A_n77A	12A	Ant0	n77A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7



		Ant1		Ant5
		Ant1		Ant10
		Ant1		Ant4
DC_12A_n78A	12A	Ant0	n78A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
DC_12A_n7A	12A	Ant0	n7A	Ant4
		Ant1		Ant2
DC_13A_n2A	13A	Ant0	n2A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_13A_n66A	13A	Ant0	n66A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_13A_n77A	13A	Ant0	n77A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
		Ant1		Ant4
DC_13A_n78A	13A	Ant0	n78A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
		Ant1		Ant4
DC_14A_n2A	14A	Ant0	n2A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_14A_n66A	14A	Ant0	n66A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_14A_n77A	14A	Ant0	n77A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10



		Ant1		Ant4
DC_17A_n2A	17A	Ant0	n2A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_25A_n41A	25A	Ant2	n41A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
DC_25A_n66A	25A	Ant2	n66A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
DC_25A_n77A	25A	Ant2	n77A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
		Ant9		Ant10
DC_25A_n78A	25A	Ant2	n78A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
DC_26A_n25A	26A	Ant0	n25A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_26A_n41A	26A	Ant0	n41A	Ant2
		Ant1		Ant2
		Ant0		Ant9
		Ant1		Ant9
		Ant0		Ant1
DC_26A_n77A	26A	Ant1	n77A	Ant0
		Ant1		Ant7
		Ant1		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10



		Ant1		Ant4
DC_26A_n78A	26A	Ant0	n78A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
		Ant1		Ant4
DC_2A_n12A	2A	Ant2	n12A	Ant0
		Ant9		Ant0
		Ant2		Ant1
		Ant9		Ant1
		Ant1		Ant0
DC_2A_n41A	2A	Ant2	n41A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
DC_2A_n48A	2A	Ant2	n48A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
DC_2A_n5A	2A	Ant2	n5A	Ant0
		Ant9		Ant0
		Ant2		Ant1
		Ant9		Ant1
		Ant1		Ant0
DC_2A_n66A	2A	Ant2	n66A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
DC_2A_n71A	2A	Ant2	n71A	Ant0
		Ant9		Ant0
		Ant2		Ant1
		Ant9		Ant1
		Ant1		Ant0
DC_2A_n77A	2A	Ant2	n77A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10



DC_2A_n78A	2A	Ant2	n78A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
DC_2A_n7A	2A	Ant2	n7A	Ant1
DC_30A_n2A	30A	Ant2	n2A	Ant1
		Ant1		Ant2
DC_30A_n5A	30A	Ant1	n5A	Ant9
		Ant2		Ant0
DC_30A_n66A	30A	Ant2	n66A	Ant1
		Ant2		Ant2
DC_30A_n77A	30A	Ant1	n77A	Ant9
		Ant1		Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
DC_38A_n78A	38A	Ant1	n78A	Ant4
		Ant1		Ant10
		Ant2		Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
DC_41A_n77A	41A	Ant9	n77A	Ant7
		Ant9		Ant4
		Ant9		Ant10
		Ant2		Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
DC_41A_n78A	41A	Ant9	n78A	Ant5
		Ant2		Ant7



		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
DC_48A_n2A	48A	Ant9	n2A	Ant10
		Ant5		Ant2
		Ant7		Ant2
		Ant5		Ant1
		Ant7		Ant1
		Ant5		Ant9
DC_48A_n5A	48A	Ant7	n5A	Ant9
		Ant5		Ant0
		Ant7		Ant0
		Ant5		Ant1
DC_48A_n66A	48A	Ant7	n66A	Ant1
		Ant5		Ant2
		Ant7		Ant2
		Ant5		Ant1
		Ant7		Ant1
		Ant5		Ant9
DC_48A_n71A	48A	Ant7	n71A	Ant9
		Ant5		Ant0
		Ant7		Ant0
		Ant5		Ant1
DC_4A_n2A	4A	Ant1	n2A	Ant1
		Ant2		Ant2
		Ant9		Ant1
		Ant1		Ant9
DC_4A_n41A	4A	Ant1	n41A	Ant1
		Ant2		Ant2
		Ant9		Ant1
		Ant1		Ant9
DC_4A_n5A	4A	Ant2	n5A	Ant0
		Ant9		Ant0
		Ant2		Ant1
		Ant9		Ant1
DC_4A_n78A	4A	Ant1	n78A	Ant0
		Ant2		Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
DC_4A_n7A	4A	Ant2	n7A	Ant1



		Ant9		Ant1
DC_5A_n2A	5A	Ant0	n2A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_5A_n41A	5A	Ant0	n41A	Ant2
		Ant1		Ant2
		Ant0		Ant9
		Ant1		Ant9
		Ant0		Ant1
DC_5A_n48A	5A	Ant1	n48A	Ant0
		Ant0		Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
DC_5A_n66A	5A	Ant1	n66A	Ant10
		Ant0		Ant4
		Ant0		Ant2
		Ant1		Ant9
		Ant1		Ant9
DC_5A_n77A	5A	Ant0	n77A	Ant1
		Ant0		Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant1		Ant4
		Ant1		Ant7
		Ant1		Ant5
DC_5A_n78A	5A	Ant1	n78A	Ant10
		Ant0		Ant4
		Ant0		Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant1		Ant4
		Ant1		Ant7
DC_5A_n7A	5A	Ant0	n7A	Ant2
		Ant1		Ant2
DC_66A_n12A	66A	Ant2	n12A	Ant0
		Ant9		Ant0
		Ant2		Ant1
		Ant9		Ant1
DC_66A_n25A	66A	Ant1	n25A	Ant0
		Ant9		Ant1
		Ant1		Ant2
		Ant1		Ant9
DC_66A_n2A	66A	Ant2	n2A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9



DC_66A_n41A	66A	Ant2	n41A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
DC_66A_n48A	66A	Ant2	n48A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
DC_66A_n5A	66A	Ant2	n5A	Ant0
		Ant9		Ant0
		Ant2		Ant1
		Ant9		Ant1
		Ant1		Ant0
DC_66A_n71A	66A	Ant2	n71A	Ant0
		Ant9		Ant0
		Ant2		Ant1
		Ant9		Ant1
		Ant1		Ant0
DC_66A_n77A	66A	Ant2	n77A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
DC_66A_n78A	66A	Ant2	n78A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
DC_66A_n7A	66A	Ant2	n7A	Ant1
		Ant9		Ant1
DC_71A_n2A	71A	Ant0	n2A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9



		Ant0		Ant1
DC_71A_n41A	71A	Ant0	n41A	Ant2
		Ant1		Ant2
		Ant0		Ant9
		Ant1		Ant9
		Ant0		Ant1
		Ant1		Ant0
DC_71A_n48A	71A	Ant0	n48A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
		Ant1		Ant4
DC_71A_n66A	71A	Ant0	n66A	Ant2
		Ant0		Ant9
		Ant1		Ant2
		Ant1		Ant9
		Ant0		Ant1
DC_71A_n77A	71A	Ant0	n77A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
		Ant1		Ant4
DC_71A_n78A	71A	Ant0	n78A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
		Ant1		Ant4
DC_7A_n25A	7A	Ant2	n25A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
DC_7A_n26A	7A	Ant2	n26A	Ant0
		Ant9		Ant0
		Ant2		Ant1
		Ant9		Ant1
		Ant1		Ant0
DC_7A_n2A	7A	Ant2	n2A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
DC_7A_n5A	7A	Ant2	n5A	Ant0
		Ant9		Ant0
		Ant2		Ant1
		Ant9		Ant1
		Ant1		Ant0
DC_7A_n66A	7A	Ant2	n66A	Ant1
		Ant1		Ant2



DC_7A_n71A	7A	Ant9	n71A	Ant1
		Ant1		Ant9
		Ant2		Ant0
		Ant9		Ant0
		Ant2		Ant1
		Ant9		Ant1
DC_7A_n77A	7A	Ant1	n77A	Ant0
		Ant2		Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
DC_7A_n78A	7A	Ant9	n78A	Ant10
		Ant2		Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4

Inter-Band CA Configuration:

NR Inter CA	NR TX0	TX0 Ant	NR TX1	TX1 Ant
CA_n12A-n66A	n12A	Ant1	n66A	Ant2
CA_n12A-n77A	n12A	Ant1	n77A	Ant9
		Ant0		Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
CA_n14A-n30A	n14A	Ant1	n30A	Ant4
CA_n14A-n66A	n14A	Ant1	n66A	Ant2
CA_n14A-n77A	n14A	Ant1	n77A	Ant9
		Ant0		Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
CA_n25A-n41A	n25A	Ant1	n41A	Ant4
		Ant2		Ant1



		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
CA_n25A-n48A	n25A	Ant2	n48A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
CA_n25A-n66A	n25A	Ant2	n66A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
CA_n25A-n71A	n25A	Ant2	n71A	Ant1
		Ant9		Ant1
CA_n25A-n77A	n25A	Ant2	n77A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
CA_n2A-n12A	n2A	Ant2	n12A	Ant1
		Ant9		Ant1
CA_n2A-n14A	n2A	Ant2	n14A	Ant1
		Ant9		Ant1
CA_n2A-n30A	n2A	Ant2	n30A	Ant1
		Ant1		Ant2
		Ant9		Ant1
CA_n2A-n41A	n2A	Ant2	n41A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
CA_n2A-n48A	n2A	Ant2	n48A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant10



CA_n2A-n5A	n2A	Ant2	n5A	Ant1
		Ant9		Ant1
CA_n2A-n66A	n2A	Ant2	n66A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
CA_n2A-n77A	n2A	Ant2	n77A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
CA_n30A-n66A	n30A	Ant2	n66A	Ant1
		Ant1		Ant2
		Ant1		Ant9
CA_n30A-n77A	n30A	Ant2	n77A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
CA_n41A-n48A	n41A	Ant2	n48A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
		Ant0		Ant5
		Ant0		Ant7
		Ant0		Ant4
		Ant0		Ant10
CA_n41A-n66A	n41A	Ant2	n66A	Ant1
		Ant1		Ant2
		Ant9		Ant1
		Ant1		Ant9
CA_n41A-n71A	n41A	Ant2	n71A	Ant1
		Ant9		Ant1
		Ant0		Ant1
CA_n41A-n77A	n41A	Ant2	n77A	Ant5
		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10



		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
		Ant0		Ant5
		Ant0		Ant7
		Ant0		Ant4
		Ant0		Ant10
CA_n48A-n66A	n48A	Ant5	n66A	Ant2
		Ant7		Ant2
		Ant4		Ant2
		Ant10		Ant2
		Ant5		Ant1
		Ant7		Ant1
		Ant4		Ant1
		Ant10		Ant1
		Ant5		Ant9
		Ant7		Ant9
		Ant4		Ant9
		Ant10		Ant9
CA_n48A-n71A	n48A	Ant7	n71A	Ant0
		Ant5		Ant0
		Ant10		Ant0
		Ant4		Ant0
		Ant7		Ant1
		Ant5		Ant1
		Ant10		Ant1
		Ant4		Ant1
CA_n5A-n25A	n5A	Ant1	n25A	Ant2
		Ant1		Ant9
CA_n5A-n30A	n5A	Ant1	n30A	Ant2
CA_n5A-n48A	n5A	Ant0	n48A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
		Ant1		Ant4
CA_n5A-n66A	n5A	Ant1	n66A	Ant2
		Ant1		Ant9
CA_n5A-n77A	n5A	Ant0	n77A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
		Ant1		Ant4
CA_n66A-n71A	n66A	Ant2	n71A	Ant1
		Ant9		Ant1
CA_n66A-n77A	n66A	Ant2	n77A	Ant5

		Ant2		Ant7
		Ant2		Ant4
		Ant2		Ant10
		Ant1		Ant5
		Ant1		Ant7
		Ant1		Ant4
		Ant1		Ant10
		Ant9		Ant5
		Ant9		Ant7
		Ant9		Ant4
		Ant9		Ant10
CA_n70A-n71A	n70A	Ant2	n71A	Ant1
		Ant9		Ant1
CA_n71A-n77A	n71A	Ant0	n77A	Ant7
		Ant0		Ant5
		Ant0		Ant10
		Ant0		Ant4
		Ant1		Ant7
		Ant1		Ant5
		Ant1		Ant10
		Ant1		Ant4

Intra-Band CA Configuration:

NR Intra CA	TX Ant
CA_n41C	Ant 2/1/9/0
CA_n77C	Ant 7/5/10/4

<NRUL MIMO Bands combination>

NR ULMIMO	NR TX0	TX0 Ant	NR TX1	TX1 Ant
n2	n2	Ant2	n2	Ant1
		Ant9		Ant1
n25	n25	Ant2	n25	Ant1
		Ant9		Ant1
n30	n30	Ant2	n30	Ant1
n66	n66	Ant2	n66	Ant1
		Ant9		Ant1
n41	n41	Ant2	n41	Ant1
		Ant2		Ant0
		Ant9		Ant1
		Ant9		Ant0
n48	n48	Ant7	n48	Ant5
		Ant7		Ant4
		Ant10		Ant5
		Ant10		Ant4
n77	n77	Ant7	n77	Ant5
		Ant7		Ant4
		Ant10		Ant5
		Ant10		Ant4
n78	n78	Ant7	n78	Ant5
		Ant7		Ant4
		Ant10		Ant5
		Ant10		Ant4

<WLAN Conducted Power>

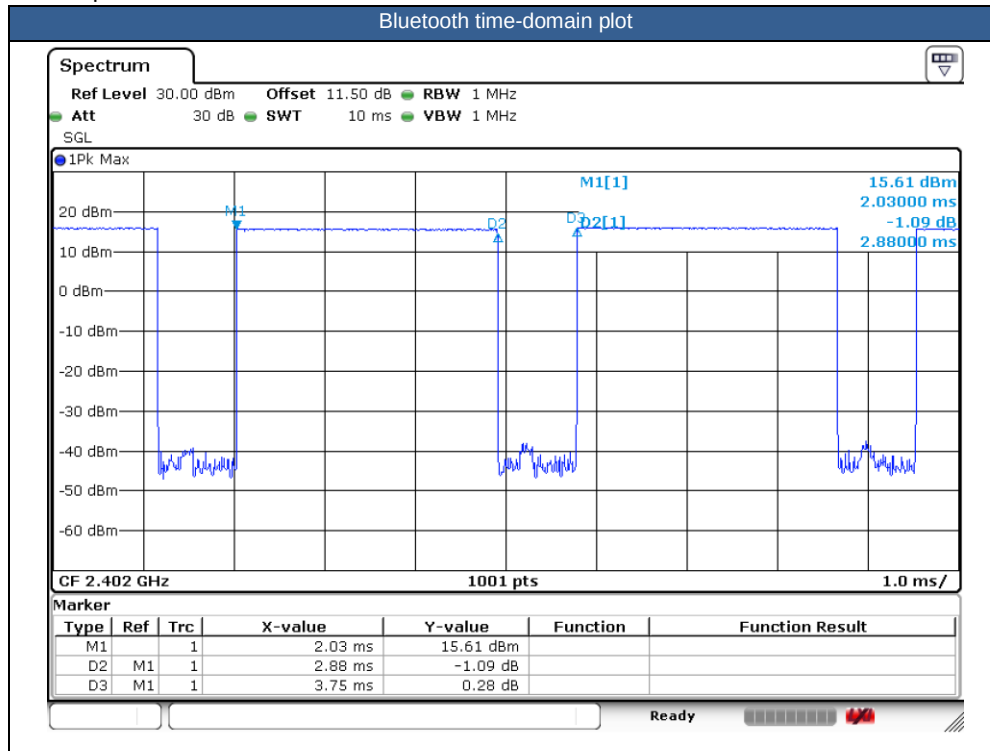
General Note:

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. 802.11 ax supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.
7. SISO and MIMO all supported by 2.4GHz/WLAN5GHz/ WLAN 6GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.
8. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of two antennas respectively to calculate sum of the power for MIMO mode.

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.8 as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.





15. Antenna Location

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

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN 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 WLAN/Bluetooth: 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.
 - g. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements the power management, Proximity sensors/receiver detect mechanism/handheld trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body, limbs) and the MediaTek TA-SAR algorithm will manage to ensure the power level not exceeding the associated power table. The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table.
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850/1900, WCDMA Band II/IV, LTE Band 2/4/5/7/13/12/14/17/26/30/25/66/38/48/41/42, 5GNR n2/n5/n7/n25/n26/n30/n66/n70/n38/n41/n48/n77/n78, WLAN 2.4/5.2/5.8GHz, therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz/6GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
6. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
7. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
8. 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.

9. For WLAN 6GHz doesn't support wireless router capability.
10. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors.
11. Per October 2020 TCB Workshop Interim procedures, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02.
12. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA Note:

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

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 $> \text{not } \frac{1}{2}$ 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 $> \text{not } \frac{1}{2}$ 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 n2/n5 /n7/n26/n66/n38/n41 /n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

Power Density General Notes:

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

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

ECI status description:

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

This WWAN bands enabled with MediaTek TA-SAR feature which located at chapter 5. The default power is Pmax power, When Plimit power higher than Pmax power, the output power will be limited at Pmax, and so the SAR will use Pmax power to do the testing.

Exposure Condition	ECI	Trigger conditions
Head SAR	ECI2	Earpiece On
Hotspot SAR	ECI7	Hotspot On
Body worn SAR	ECI3	Sensor On
Extremity SAR	ECI6	Sensor On
Body worn/ Extremity SAR	ECI4	Sensor Off



16.1 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																				
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI2	133297	680.5	22.55	24.00	1.396	-	-	-0.07	0.131	0.183
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI2	133297	680.5	22.55	24.00	1.396	-	-	-0.13	0.060	0.084
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI2	133297	680.5	22.55	24.00	1.396	-	-	-0.12	0.215	0.300
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI2	133297	680.5	22.55	24.00	1.396	-	-	0.13	0.104	0.145
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	ECI2	133297	680.5	21.62	23.00	1.374	-	-	-0.07	0.097	0.133
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	ECI2	133297	680.5	21.62	23.00	1.374	-	-	-0.01	0.045	0.062
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	ECI2	133297	680.5	21.62	23.00	1.374	-	-	-0.11	0.165	0.227
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	ECI2	133297	680.5	21.62	23.00	1.374	-	-	-0.14	0.081	0.111
01	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	133297	680.5	22.57	24.00	1.390	-	-	-0.06	0.534	0.742
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	133297	680.5	22.57	24.00	1.390	-	-	0.16	0.456	0.634
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	133297	680.5	22.57	24.00	1.390	-	-	-0.07	0.336	0.467
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI2	133297	680.5	22.57	24.00	1.390	-	-	0	0.326	0.453
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI2	133297	680.5	21.52	23.00	1.406	-	-	-0.18	0.502	0.706
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI2	133297	680.5	21.52	23.00	1.406	-	-	-0.07	0.442	0.621
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI2	133297	680.5	21.52	23.00	1.406	-	-	0.06	0.323	0.454
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI2	133297	680.5	21.52	23.00	1.406	-	-	0.16	0.313	0.440
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI2	23095	707.5	22.50	24.00	1.413	-	-	-0.09	0.138	0.195
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI2	23095	707.5	22.50	24.00	1.413	-	-	-0.13	0.076	0.107
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI2	23095	707.5	22.50	24.00	1.413	-	-	0.09	0.234	0.331
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI2	23095	707.5	22.50	24.00	1.413	-	-	0.01	0.115	0.162
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI2	23095	707.5	21.42	23.00	1.439	-	-	-0.01	0.107	0.154
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI2	23095	707.5	21.42	23.00	1.439	-	-	-0.16	0.064	0.092
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI2	23095	707.5	21.42	23.00	1.439	-	-	-0.11	0.177	0.255
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI2	23095	707.5	21.42	23.00	1.439	-	-	0.09	0.094	0.135
02	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	23095	707.5	20.83	22.50	1.469	-	-	0.01	0.533	0.783
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	23095	707.5	20.83	22.50	1.469	-	-	-0.08	0.481	0.707
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	23095	707.5	20.83	22.50	1.469	-	-	0.04	0.318	0.467
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI2	23095	707.5	20.83	22.50	1.469	-	-	-0.09	0.333	0.489
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	ECI2	23095	707.5	20.81	22.50	1.476	-	-	0.09	0.513	0.757
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	ECI2	23095	707.5	20.81	22.50	1.476	-	-	0.02	0.452	0.667
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI2	23095	707.5	20.81	22.50	1.476	-	-	0.09	0.300	0.443
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	ECI2	23095	707.5	20.81	22.50	1.476	-	-	-0.13	0.312	0.460
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI2	23230	782	22.44	24.00	1.432	-	-	-0.1	0.137	0.196
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI2	23230	782	22.44	24.00	1.432	-	-	-0.07	0.079	0.113
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI2	23230	782	22.44	24.00	1.432	-	-	0.15	0.226	0.324
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI2	23230	782	22.44	24.00	1.432	-	-	0.04	0.118	0.169
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI2	23230	782	21.38	23.00	1.452	-	-	0.09	0.107	0.155
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI2	23230	782	21.38	23.00	1.452	-	-	0.1	0.064	0.093
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI2	23230	782	21.38	23.00	1.452	-	-	-0.17	0.179	0.260
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI2	23230	782	21.38	23.00	1.452	-	-	-0.05	0.096	0.139
03	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	23230	782	19.60	21.00	1.380	-	-	0.08	0.537	0.741
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	23230	782	19.60	21.00	1.380	-	-	0.06	0.469	0.647
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	23230	782	19.60	21.00	1.380	-	-	0.16	0.347	0.479
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI2	23230	782	19.60	21.00	1.380	-	-	-0.02	0.322	0.444
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	ECI2	23230	782	19.58	21.00	1.387	-	-	-0.13	0.515	0.714
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	ECI2	23230	782	19.58	21.00	1.387	-	-	-0.14	0.458	0.635
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI2	23230	782	19.58	21.00	1.387	-	-	0.14	0.326	0.452
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	ECI2	23230	782	19.58	21.00	1.387	-	-	-0.06	0.308	0.427
	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI2	23330	793	22.22	24.00	1.507	-	-	-0.13	0.135	0.203



FCC SAR Test Report

Report No. : FA612609

	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI2	23330	793	22.22	24.00	1.507	-	-	-0.05	0.077	0.116
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI2	23330	793	22.22	24.00	1.507	-	-	-0.01	0.267	0.402
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI2	23330	793	22.22	24.00	1.507	-	-	0.19	0.108	0.163
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI2	23330	793	21.14	23.00	1.535	-	-	0.04	0.108	0.166
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI2	23330	793	21.14	23.00	1.535	-	-	0	0.063	0.097
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI2	23330	793	21.14	23.00	1.535	-	-	0.05	0.201	0.308
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI2	23330	793	21.14	23.00	1.535	-	-	0.04	0.092	0.141
04	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	23330	793	18.10	19.50	1.380	-	-	-0.13	0.518	0.715
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	23330	793	18.10	19.50	1.380	-	-	0.04	0.430	0.594
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	23330	793	18.10	19.50	1.380	-	-	-0.16	0.331	0.457
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI2	23330	793	18.10	19.50	1.380	-	-	-0.02	0.301	0.415
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	ECI2	23330	793	18.06	19.50	1.393	-	-	-0.13	0.503	0.701
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	ECI2	23330	793	18.06	19.50	1.393	-	-	0.1	0.425	0.592
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI2	23330	793	18.06	19.50	1.393	-	-	0.06	0.314	0.437
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	ECI2	23330	793	18.06	19.50	1.393	-	-	-0.06	0.303	0.422
	FR1 n71	35M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	ECI2	136100	680.5	22.32	24.00	1.472	-	-	-0.15	0.166	0.244
	FR1 n71	35M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	ECI2	136100	680.5	22.32	24.00	1.472	-	-	0	0.083	0.122
	FR1 n71	35M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	ECI2	136100	680.5	22.32	24.00	1.472	-	-	-0.02	0.097	0.143
	FR1 n71	35M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	ECI2	136100	680.5	22.32	24.00	1.472	-	-	-0.12	0.000	0.000
	FR1 n71	35M	QPSK	90	45	DFT-15	Right Cheek	0mm	Ant 0	ECI2	136100	680.5	22.21	24.00	1.510	-	-	0.18	0.145	0.219
	FR1 n71	35M	QPSK	90	45	DFT-15	Right Tilted	0mm	Ant 0	ECI2	136100	680.5	22.21	24.00	1.510	-	-	-0.1	0.072	0.109
	FR1 n71	35M	QPSK	90	45	DFT-15	Left Cheek	0mm	Ant 0	ECI2	136100	680.5	22.21	24.00	1.510	-	-	-0.08	0.083	0.125
	FR1 n71	35M	QPSK	90	45	DFT-15	Left Tilted	0mm	Ant 0	ECI2	136100	680.5	22.21	24.00	1.510	-	-	0.15	0.044	0.066
05	FR1 n71	35M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI2	136100	680.5	21.77	23.50	1.489	-	-	0.07	0.477	0.710
	FR1 n71	35M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI2	136100	680.5	21.77	23.50	1.489	-	-	0.17	0.387	0.576
	FR1 n71	35M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI2	136100	680.5	21.77	23.50	1.489	-	-	0.01	0.296	0.441
	FR1 n71	35M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI2	136100	680.5	21.77	23.50	1.489	-	-	-0.09	0.302	0.450
	FR1 n71	35M	QPSK	90	45	DFT-15	Right Cheek	0mm	Ant 1	ECI2	136100	680.5	21.75	23.50	1.496	-	-	-0.18	0.461	0.690
	FR1 n71	35M	QPSK	90	45	DFT-15	Right Tilted	0mm	Ant 1	ECI2	136100	680.5	21.75	23.50	1.496	-	-	0.13	0.362	0.542
	FR1 n71	35M	QPSK	90	45	DFT-15	Left Cheek	0mm	Ant 1	ECI2	136100	680.5	21.75	23.50	1.496	-	-	0.09	0.283	0.423
	FR1 n71	35M	QPSK	90	45	DFT-15	Left Tilted	0mm	Ant 1	ECI2	136100	680.5	21.75	23.50	1.496	-	-	0.04	0.284	0.425
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	ECI2	141500	707.5	22.52	24.00	1.406	-	-	0.04	0.088	0.124
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	ECI2	141500	707.5	22.52	24.00	1.406	-	-	0.07	0.047	0.066
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	ECI2	141500	707.5	22.52	24.00	1.406	-	-	0	0.148	0.208
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	ECI2	141500	707.5	22.52	24.00	1.406	-	-	0.03	0.078	0.110
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 0	ECI2	141500	707.5	22.38	24.00	1.452	-	-	0.03	0.087	0.126
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 0	ECI2	141500	707.5	22.38	24.00	1.452	-	-	0	0.052	0.076
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 0	ECI2	141500	707.5	22.38	24.00	1.452	-	-	-0.04	0.149	0.216
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 0	ECI2	141500	707.5	22.38	24.00	1.452	-	-	-0.15	0.076	0.110
06	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI2	141500	707.5	20.83	22.50	1.469	-	-	0.18	0.484	0.711
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI2	141500	707.5	20.83	22.50	1.469	-	-	-0.16	0.400	0.588
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI2	141500	707.5	20.83	22.50	1.469	-	-	-0.14	0.294	0.432
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI2	141500	707.5	20.83	22.50	1.469	-	-	-0.04	0.298	0.438
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 1	ECI2	141500	707.5	20.79	22.50	1.483	-	-	-0.07	0.465	0.689
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 1	ECI2	141500	707.5	20.79	22.50	1.483	-	-	0.07	0.387	0.574
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 1	ECI2	141500	707.5	20.79	22.50	1.483	-	-	-0.12	0.286	0.424
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 1	ECI2	141500	707.5	20.79	22.50	1.483	-	-	0.18	0.290	0.430
	FR1 n13	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	ECI2	156400	782	22.48	24.00	1.419	-	-	0.18	0.109	0.155
	FR1 n13	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	ECI2	156400	782	22.48	24.00	1.419	-	-	-0.04	0.059	0.084
	FR1 n13	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	ECI2	156400	782	22.48	24.00	1.419	-	-	0.12	0.180	0.255
	FR1 n13	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	ECI2	156400	782	22.48	24.00	1.419	-	-	0.09	0.095	0.135
	FR1 n13	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 0	ECI2	156400	782	22.15	24.00	1.531	-	-	0.05	0.106	0.162
	FR1 n13	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 0	ECI2	156400	782	22.15	24.00	1.531	-	-	-0.05	0.064	0.098
	FR1 n13	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 0	ECI2	156400	782	22.15	24.00	1.531	-	-	0.06	0.175	0.268
	FR1 n13	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 0	ECI2	156400	782	22.15	24.00	1.531	-	-	0.08	0.096	0.147
07	FR1 n13	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI2	156400	782	19.44	21.00	1.432	-	-	-0.04	0.523	0.749



FCC SAR Test Report

Report No. : FA612609

	FR1 n13	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI2	156400	782	19.44	21.00	1.432	-	-	-0.15	0.427	0.612
	FR1 n13	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI2	156400	782	19.44	21.00	1.432	-	-	-0.1	0.338	0.484
	FR1 n13	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI2	156400	782	19.44	21.00	1.432	-	-	0	0.324	0.464
	FR1 n13	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 1	ECI2	156400	782	19.39	21.00	1.449	-	-	-0.07	0.488	0.707
	FR1 n13	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 1	ECI2	156400	782	19.39	21.00	1.449	-	-	0.02	0.400	0.580
	FR1 n13	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 1	ECI2	156400	782	19.39	21.00	1.449	-	-	-0.04	0.327	0.474
	FR1 n13	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 1	ECI2	156400	782	19.39	21.00	1.449	-	-	-0.18	0.307	0.445
	FR1 n14	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	ECI2	158600	793	22.32	24.00	1.472	-	-	-0.14	0.133	0.196
	FR1 n14	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	ECI2	158600	793	22.32	24.00	1.472	-	-	0.02	0.085	0.125
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	ECI2	158600	793	22.32	24.00	1.472	-	-	0.14	0.222	0.327
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	ECI2	158600	793	22.32	24.00	1.472	-	-	-0.05	0.123	0.181
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 0	ECI2	158600	793	22.14	24.00	1.535	-	-	0.07	0.132	0.203
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 0	ECI2	158600	793	22.14	24.00	1.535	-	-	-0.06	0.085	0.130
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 0	ECI2	158600	793	22.14	24.00	1.535	-	-	-0.14	0.290	0.445
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 0	ECI2	158600	793	22.14	24.00	1.535	-	-	0.14	0.120	0.184
08	FR1 n14	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI2	158600	793	19.88	21.50	1.452	-	-	-0.03	0.505	0.733
	FR1 n14	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI2	158600	793	19.88	21.50	1.452	-	-	0.15	0.408	0.592
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI2	158600	793	19.88	21.50	1.452	-	-	-0.05	0.331	0.481
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI2	158600	793	19.88	21.50	1.452	-	-	0.08	0.313	0.455
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 1	ECI2	158600	793	19.83	21.50	1.469	-	-	0.11	0.487	0.715
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 1	ECI2	158600	793	19.83	21.50	1.469	-	-	-0.18	0.394	0.579
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 1	ECI2	158600	793	19.83	21.50	1.469	-	-	0.19	0.323	0.474
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 1	ECI2	158600	793	19.83	21.50	1.469	-	-	0.08	0.303	0.445
835MHz																				
	GSM850	-	-	-	-	GPRS 4TX slot	Right Cheek	0mm	Ant 0	ECI2	189	836.4	28.10	29.50	1.380	-	-	-0.07	0.202	0.279
	GSM850	-	-	-	-	GPRS 4TX slot	Right Tilted	0mm	Ant 0	ECI2	189	836.4	28.10	29.50	1.380	-	-	0.08	0.130	0.179
09	GSM850	-	-	-	-	GPRS 4TX slot	Left Cheek	0mm	Ant 0	ECI2	189	836.4	28.10	29.50	1.380	-	-	0.09	0.303	0.418
	GSM850	-	-	-	-	GPRS 4TX slot	Left Tilted	0mm	Ant 0	ECI2	189	836.4	28.10	29.50	1.380	-	-	-0.03	0.169	0.233
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	ECI2	4182	836.4	22.53	24.00	1.403	-	-	-0.11	0.173	0.243
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	ECI2	4182	836.4	22.53	24.00	1.403	-	-	0.11	0.112	0.157
10	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	ECI2	4182	836.4	22.53	24.00	1.403	-	-	0.12	0.244	0.342
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	ECI2	4182	836.4	22.53	24.00	1.403	-	-	-0.02	0.150	0.210
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI2	26865	831.5	22.31	24.00	1.476	-	-	-0.04	0.174	0.257
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI2	26865	831.5	22.31	24.00	1.476	-	-	-0.03	0.110	0.162
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI2	26865	831.5	22.31	24.00	1.476	-	-	0.06	0.290	0.428
	LTE Band 5B	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI2	20450 20549	829 838.9	22.30	24.00	1.479	-	-	0.04	0.317	0.469
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI2	26865	831.5	22.31	24.00	1.476	-	-	0.17	0.146	0.215
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	ECI2	26865	831.5	21.24	23.00	1.500	-	-	0.01	0.150	0.225
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	ECI2	26865	831.5	21.24	23.00	1.500	-	-	0.03	0.098	0.147
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	ECI2	26865	831.5	21.24	23.00	1.500	-	-	0.15	0.234	0.351
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	ECI2	26865	831.5	21.24	23.00	1.500	-	-	-0.08	0.120	0.180
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	26865	831.5	19.80	21.50	1.479	-	-	-0.08	0.543	0.803
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	26865	831.5	19.80	21.50	1.479	-	-	-0.07	0.386	0.571
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	26865	831.5	19.80	21.50	1.479	-	-	-0.11	0.385	0.569
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI2	26865	831.5	19.80	21.50	1.479	-	-	0.03	0.341	0.504
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	26765	821.5	19.75	21.50	1.496	-	-	0.01	0.506	0.757
11	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	26965	841.5	19.72	21.50	1.507	-	-	-0.08	0.585	0.881
	LTE Band 5B	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	20450 20549	829 838.9	19.65	21.50	1.531	-	-	0.05	0.548	0.839
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	ECI2	26865	831.5	19.73	21.50	1.503	-	-	0.02	0.520	0.782
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	ECI2	26865	831.5	19.73	21.50	1.503	-	-	-0.19	0.371	0.558
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	ECI2	26865	831.5	19.73	21.50	1.503	-	-	0.03	0.376	0.565
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	ECI2	26865	831.5	19.73	21.50	1.503	-	-	-0.18	0.323	0.486
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 1	ECI2	26865	831.5	19.66	21.50	1.528	-	-	0.03	0.510	0.779
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	ECI2	166300	831.5	22.37	24.00	1.455	-	-	0.14	0.126	0.183
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	ECI2	166300	831.5	22.37	24.00	1.455	-	-	-0.11	0.076	0.111



FCC SAR Test Report

Report No. : FA612609

	FR1 n26	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	ECI2	166300	831.5	22.37	24.00	1.455	-	-	-0.04	0.201	0.293
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	ECI2	166300	831.5	22.37	24.00	1.455	-	-	0.13	0.109	0.159
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	ECI2	166300	831.5	22.15	24.00	1.531	-	-	0.1	0.141	0.216
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	ECI2	166300	831.5	22.15	24.00	1.531	-	-	-0.09	0.089	0.136
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	ECI2	166300	831.5	22.15	24.00	1.531	-	-	-0.13	0.218	0.334
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	ECI2	166300	831.5	22.15	24.00	1.531	-	-	0.11	0.113	0.173
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI2	166300	831.5	18.51	20.00	1.409	-	-	0.16	0.536	0.755
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI2	166300	831.5	18.51	20.00	1.409	-	-	-0.15	0.469	0.661
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI2	166300	831.5	18.51	20.00	1.409	-	-	0.19	0.353	0.497
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI2	166300	831.5	18.51	20.00	1.409	-	-	0.04	0.349	0.492
12	FR1 n26	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	ECI2	166300	831.5	18.50	20.00	1.413	-	-	-0.18	0.563	0.795
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	ECI2	166300	831.5	18.50	20.00	1.413	-	-	-0.14	0.485	0.685
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	ECI2	166300	831.5	18.50	20.00	1.413	-	-	0.01	0.375	0.530
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	ECI2	166300	831.5	18.50	20.00	1.413	-	-	-0.07	0.372	0.525
1750MHz																				
13	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI2	1413	1732.6	22.83	24.00	1.309	-	-	0.09	0.242	0.317
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI2	1413	1732.6	22.83	24.00	1.309	-	-	0.02	0.113	0.148
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI2	1413	1732.6	22.83	24.00	1.309	-	-	0.01	0.216	0.283
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI2	1413	1732.6	22.83	24.00	1.309	-	-	-0.07	0.120	0.157
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI2	132322	1745	22.82	24.00	1.312	-	-	0.01	0.231	0.303
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI2	132322	1745	22.82	24.00	1.312	-	-	0.13	0.099	0.130
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI2	132322	1745	22.82	24.00	1.312	-	-	0.04	0.246	0.323
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI2	132322	1745	22.82	24.00	1.312	-	-	-0.18	0.083	0.109
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI2	132322	1745	21.65	23.00	1.365	-	-	0.06	0.189	0.258
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI2	132322	1745	21.65	23.00	1.365	-	-	-0.18	0.077	0.105
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI2	132322	1745	21.65	23.00	1.365	-	-	-0.12	0.192	0.262
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI2	132322	1745	21.65	23.00	1.365	-	-	-0.19	0.065	0.089
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI2	132322	1745	18.97	20.00	1.268	-	-	0.14	0.681	0.863
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	ECI2	132322	1745	18.97	20.00	1.268	-	-	-0.01	0.133	0.169
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	ECI2	132322	1745	18.97	20.00	1.268	-	-	0.01	0.237	0.300
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	ECI2	132322	1745	18.97	20.00	1.268	-	-	0.12	0.102	0.129
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI2	132072	1720	18.95	20.00	1.274	-	-	0.1	0.683	0.870
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI2	132572	1770	18.90	20.00	1.288	-	-	0.03	0.625	0.805
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI2	132322	1745	18.96	20.00	1.271	-	-	0.07	0.653	0.830
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	ECI2	132322	1745	18.96	20.00	1.271	-	-	-0.11	0.128	0.163
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	ECI2	132322	1745	18.96	20.00	1.271	-	-	0.07	0.226	0.287
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	ECI2	132322	1745	18.96	20.00	1.271	-	-	0.15	0.098	0.125
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI2	132072	1720	18.89	20.00	1.291	-	-	0	0.656	0.847
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI2	132572	1770	18.87	20.00	1.297	-	-	-0.14	0.642	0.833
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 9	ECI2	132322	1745	18.93	20.00	1.279	-	-	0.18	0.621	0.794
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	132322	1745	15.59	17.00	1.384	-	-	-0.07	0.561	0.776
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	132322	1745	15.59	17.00	1.384	-	-	-0.07	0.621	0.859
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	132322	1745	15.59	17.00	1.384	-	-	-0.15	0.380	0.526
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI2	132322	1745	15.59	17.00	1.384	-	-	-0.03	0.448	0.620
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	132072	1720	15.45	17.00	1.429	-	-	-0.09	0.596	0.852
14	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	132572	1770	15.50	17.00	1.413	-	-	-0.07	0.625	0.883
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI2	132322	1745	15.57	17.00	1.390	-	-	0.17	0.526	0.731
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI2	132322	1745	15.57	17.00	1.390	-	-	0.01	0.605	0.841
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI2	132322	1745	15.57	17.00	1.390	-	-	0.06	0.356	0.495
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI2	132322	1745	15.57	17.00	1.390	-	-	-0.17	0.422	0.587
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI2	132072	1720	15.42	17.00	1.439	-	-	0.06	0.570	0.820
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI2	132572	1770	15.49	17.00	1.416	-	-	-0.17	0.591	0.837
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	ECI2	132322	1745	15.49	17.00	1.416	-	-	0.03	0.558	0.790
	FR1 n66	45M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	ECI2	349000	1745	22.34	24.00	1.466	-	-	-0.13	0.173	0.254
	FR1 n66	45M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	ECI2	349000	1745	22.34	24.00	1.466	-	-	0.06	0.062	0.091
	FR1 n66	45M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI2	349000	1745	22.34	24.00	1.466	-	-	0.06	0.169	0.248



FCC SAR Test Report

Report No. : FA612609

	FR1 n66	45M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	ECI2	349000	1745	22.34	24.00	1.466	-	-	-0.07	0.057	0.084
	FR1 n66	45M	QPSK	120	60	DFT-15	Right Cheek	0mm	Ant 2	ECI2	349000	1745	22.21	24.00	1.510	-	-	0.14	0.170	0.257
	FR1 n66	45M	QPSK	120	60	DFT-15	Right Tilted	0mm	Ant 2	ECI2	349000	1745	22.21	24.00	1.510	-	-	0.05	0.062	0.094
	FR1 n66	45M	QPSK	120	60	DFT-15	Left Cheek	0mm	Ant 2	ECI2	349000	1745	22.21	24.00	1.510	-	-	-0.16	0.160	0.242
	FR1 n66	45M	QPSK	120	60	DFT-15	Left Tilted	0mm	Ant 2	ECI2	349000	1745	22.21	24.00	1.510	-	-	-0.18	0.056	0.085
	FR1 n66	45M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 9	ECI2	349000	1745	17.57	19.00	1.390	-	-	0.09	0.515	0.716
	FR1 n66	45M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 9	ECI2	349000	1745	17.57	19.00	1.390	-	-	0.07	0.104	0.145
	FR1 n66	45M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 9	ECI2	349000	1745	17.57	19.00	1.390	-	-	0.1	0.175	0.243
	FR1 n66	45M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 9	ECI2	349000	1745	17.57	19.00	1.390	-	-	-0.04	0.070	0.097
	FR1 n66	45M	QPSK	120	60	DFT-15	Right Cheek	0mm	Ant 9	ECI2	349000	1745	17.56	19.00	1.393	-	-	0.11	0.484	0.674
	FR1 n66	45M	QPSK	120	60	DFT-15	Right Tilted	0mm	Ant 9	ECI2	349000	1745	17.56	19.00	1.393	-	-	0.06	0.101	0.141
	FR1 n66	45M	QPSK	120	60	DFT-15	Left Cheek	0mm	Ant 9	ECI2	349000	1745	17.56	19.00	1.393	-	-	0.17	0.169	0.235
	FR1 n66	45M	QPSK	120	60	DFT-15	Left Tilted	0mm	Ant 9	ECI2	349000	1745	17.56	19.00	1.393	-	-	0.07	0.068	0.095
	FR1 n66	45M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI2	349000	1745	15.49	17.00	1.416	-	-	-0.1	0.491	0.695
	FR1 n66	45M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI2	349000	1745	15.49	17.00	1.416	-	-	-0.1	0.538	0.762
	FR1 n66	45M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI2	349000	1745	15.49	17.00	1.416	-	-	0.04	0.278	0.394
	FR1 n66	45M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI2	349000	1745	15.49	17.00	1.416	-	-	0.01	0.349	0.494
	FR1 n66	45M	QPSK	120	60	DFT-15	Right Cheek	0mm	Ant 1	ECI2	349000	1745	15.43	17.00	1.435	-	-	-0.08	0.502	0.721
15	FR1 n66	45M	QPSK	120	60	DFT-15	Right Tilted	0mm	Ant 1	ECI2	349000	1745	15.43	17.00	1.435	-	-	-0.01	0.553	0.794
	FR1 n66	45M	QPSK	120	60	DFT-15	Left Cheek	0mm	Ant 1	ECI2	349000	1745	15.43	17.00	1.435	-	-	-0.13	0.284	0.408
	FR1 n66	45M	QPSK	120	60	DFT-15	Left Tilted	0mm	Ant 1	ECI2	349000	1745	15.43	17.00	1.435	-	-	0.03	0.371	0.533
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	ECI2	340500	1702.5	22.98	24.00	1.265	-	-	0.15	0.156	0.197
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	ECI2	340500	1702.5	22.98	24.00	1.265	-	-	-0.12	0.057	0.072
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI2	340500	1702.5	22.98	24.00	1.265	-	-	-0.15	0.163	0.206
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	ECI2	340500	1702.5	22.98	24.00	1.265	-	-	-0.08	0.060	0.076
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 2	ECI2	340500	1702.5	22.64	24.00	1.368	-	-	0.1	0.142	0.194
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 2	ECI2	340500	1702.5	22.64	24.00	1.368	-	-	-0.01	0.059	0.081
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 2	ECI2	340500	1702.5	22.64	24.00	1.368	-	-	-0.1	0.142	0.194
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 2	ECI2	340500	1702.5	22.64	24.00	1.368	-	-	-0.11	0.060	0.082
16	FR1 n70	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 9	ECI2	340500	1702.5	19.09	20.00	1.233	-	-	-0.03	0.704	0.868
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 9	ECI2	340500	1702.5	19.09	20.00	1.233	-	-	-0.16	0.150	0.185
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 9	ECI2	340500	1702.5	19.09	20.00	1.233	-	-	-0.17	0.220	0.271
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 9	ECI2	340500	1702.5	19.09	20.00	1.233	-	-	0.08	0.110	0.136
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 9	ECI2	340500	1702.5	19.05	20.00	1.245	-	-	-0.09	0.663	0.825
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 9	ECI2	340500	1702.5	19.05	20.00	1.245	-	-	0.1	0.143	0.178
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 9	ECI2	340500	1702.5	19.05	20.00	1.245	-	-	-0.06	0.206	0.256
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 9	ECI2	340500	1702.5	19.05	20.00	1.245	-	-	-0.18	0.106	0.132
	FR1 n70	15M	QPSK	75	0	DFT-15	Right Cheek	0mm	Ant 9	ECI2	340500	1702.5	18.98	20.00	1.265	-	-	0.13	0.651	0.823
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI2	340500	1702.5	16.44	17.50	1.276	-	-	0.02	0.529	0.675
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI2	340500	1702.5	16.44	17.50	1.276	-	-	0.01	0.597	0.762
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI2	340500	1702.5	16.44	17.50	1.276	-	-	0.01	0.355	0.453
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI2	340500	1702.5	16.44	17.50	1.276	-	-	-0.14	0.469	0.599
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 1	ECI2	340500	1702.5	16.38	17.50	1.294	-	-	-0.14	0.505	0.654
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 1	ECI2	340500	1702.5	16.38	17.50	1.294	-	-	0.01	0.560	0.725
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 1	ECI2	340500	1702.5	16.38	17.50	1.294	-	-	0.11	0.342	0.443
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 1	ECI2	340500	1702.5	16.38	17.50	1.294	-	-	0.02	0.449	0.581
1900MHz																				
17	GSM1900	-	-	-	-	GPRS 4TX slot	Right Cheek	0mm	Ant 2	ECI2	661	1880	25.55	26.50	1.245	-	-	0.12	0.161	0.200
	GSM1900	-	-	-	-	GPRS 4TX slot	Right Tilted	0mm	Ant 2	ECI2	661	1880	25.55	26.50	1.245	-	-	-0.08	0.084	0.105
	GSM1900	-	-	-	-	GPRS 4TX slot	Left Cheek	0mm	Ant 2	ECI2	661	1880	25.55	26.50	1.245	-	-	-0.07	0.151	0.188
	GSM1900	-	-	-	-	GPRS 4TX slot	Left Tilted	0mm	Ant 2	ECI2	661	1880	25.55	26.50	1.245	-	-	0.09	0.075	0.093
18	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI2	9400	1880	22.73	24.00	1.340	-	-	-0.13	0.217	0.291
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI2	9400	1880	22.73	24.00	1.340	-	-	-0.11	0.112	0.150
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI2	9400	1880	22.73	24.00	1.340	-	-	-0.16	0.191	0.256
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI2	9400	1880	22.73	24.00	1.340	-	-	-0.1	0.099	0.133
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI2	26340	1880	22.64	24.00	1.368	-	-	-0.12	0.215	0.294



FCC SAR Test Report

Report No. : FA612609

	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI2	26340	1880	22.64	24.00	1.368	-	-	-0.08	0.082	0.112
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI2	26340	1880	22.64	24.00	1.368	-	-	-0.06	0.186	0.254
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI2	26340	1880	22.64	24.00	1.368	-	-	0.06	0.086	0.118
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI2	26340	1880	22.38	23.00	1.153	-	-	-0.14	0.169	0.195
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI2	26340	1880	22.38	23.00	1.153	-	-	0.15	0.065	0.075
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI2	26340	1880	22.38	23.00	1.153	-	-	-0.18	0.122	0.141
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI2	26340	1880	22.38	23.00	1.153	-	-	-0.09	0.059	0.068
19	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI2	26340	1880	17.60	19.00	1.380	-	-	0.03	0.573	0.791
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	ECI2	26340	1880	17.60	19.00	1.380	-	-	-0.06	0.116	0.160
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	ECI2	26340	1880	17.60	19.00	1.380	-	-	0.02	0.192	0.265
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	ECI2	26340	1880	17.60	19.00	1.380	-	-	-0.19	0.072	0.099
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI2	26340	1880	17.54	19.00	1.400	-	-	0.16	0.540	0.756
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	ECI2	26340	1880	17.54	19.00	1.400	-	-	0.05	0.109	0.153
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	ECI2	26340	1880	17.54	19.00	1.400	-	-	0.09	0.187	0.262
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	ECI2	26340	1880	17.54	19.00	1.400	-	-	-0.12	0.067	0.094
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	26340	1880	14.20	16.00	1.514	-	-	0.11	0.468	0.708
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	26340	1880	14.20	16.00	1.514	-	-	-0.03	0.502	0.760
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	26340	1880	14.20	16.00	1.514	-	-	0.08	0.169	0.256
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI2	26340	1880	14.20	16.00	1.514	-	-	0.06	0.064	0.097
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI2	26340	1880	14.17	16.00	1.524	-	-	-0.03	0.449	0.684
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI2	26340	1880	14.17	16.00	1.524	-	-	-0.18	0.476	0.725
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI2	26340	1880	14.17	16.00	1.524	-	-	-0.18	0.165	0.251
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI2	26340	1880	14.17	16.00	1.524	-	-	-0.14	0.061	0.093
	FR1 n25	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	ECI2	376500	1882.5	22.46	24.00	1.426	-	-	-0.19	0.166	0.237
	FR1 n25	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	ECI2	376500	1882.5	22.46	24.00	1.426	-	-	0.18	0.075	0.107
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI2	376500	1882.5	22.46	24.00	1.426	-	-	-0.19	0.153	0.218
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	ECI2	376500	1882.5	22.46	24.00	1.426	-	-	-0.09	0.084	0.120
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 2	ECI2	376500	1882.5	22.28	24.00	1.486	-	-	-0.13	0.164	0.244
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 2	ECI2	376500	1882.5	22.28	24.00	1.486	-	-	0.19	0.076	0.113
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 2	ECI2	376500	1882.5	22.28	24.00	1.486	-	-	0.1	0.142	0.211
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 2	ECI2	376500	1882.5	22.28	24.00	1.486	-	-	-0.07	0.086	0.128
	FR1 n25	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 9	ECI2	376500	1882.5	17.00	18.50	1.413	-	-	-0.16	0.553	0.781
	FR1 n25	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 9	ECI2	376500	1882.5	17.00	18.50	1.413	-	-	-0.19	0.115	0.162
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 9	ECI2	376500	1882.5	17.00	18.50	1.413	-	-	0.06	0.176	0.249
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 9	ECI2	376500	1882.5	17.00	18.50	1.413	-	-	0.04	0.065	0.092
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 9	ECI2	376500	1882.5	16.99	18.50	1.416	-	-	-0.11	0.531	0.752
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 9	ECI2	376500	1882.5	16.99	18.50	1.416	-	-	-0.17	0.108	0.153
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 9	ECI2	376500	1882.5	16.99	18.50	1.416	-	-	-0.01	0.166	0.235
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 9	ECI2	376500	1882.5	16.99	18.50	1.416	-	-	-0.15	0.062	0.088
	FR1 n25	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI2	376500	1882.5	15.39	17.00	1.449	-	-	-0.01	0.513	0.743
20	FR1 n25	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI2	376500	1882.5	15.39	17.00	1.449	-	-	-0.07	0.558	0.808
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI2	376500	1882.5	15.39	17.00	1.449	-	-	-0.02	0.275	0.398
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI2	376500	1882.5	15.39	17.00	1.449	-	-	-0.06	0.350	0.507
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 1	ECI2	376500	1882.5	15.33	17.00	1.469	-	-	-0.18	0.484	0.711
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	ECI2	376500	1882.5	15.33	17.00	1.469	-	-	0.1	0.516	0.758
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 1	ECI2	376500	1882.5	15.33	17.00	1.469	-	-	-0.03	0.262	0.385
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 1	ECI2	376500	1882.5	15.33	17.00	1.469	-	-	0.09	0.320	0.470
	FR1 n25	40M	QPSK	216	0	DFT-15	Right Tilted	0mm	Ant 1	ECI2	376500	1882.5	15.31	17.00	1.476	-	-	-0.17	0.503	0.742
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI2	27710	2310	22.22	24.00	1.507	-	-	-0.11	0.306	0.461
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI2	27710	2310	22.22	24.00	1.507	-	-	-0.15	0.091	0.137
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI2	27710	2310	22.22	24.00	1.507	-	-	0.12	0.176	0.265
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI2	27710	2310	22.22	24.00	1.507	-	-	-0.01	0.118	0.178
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	ECI2	27710	2310	21.40	23.00	1.445	-	-	-0.05	0.237	0.343
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	ECI2	27710	2310	21.40	23.00	1.445	-	-	0.07	0.072	0.104
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	ECI2	27710	2310	21.40	23.00	1.445	-	-	0.12	0.148	0.214



FCC SAR Test Report

Report No. : FA612609

	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	ECI2	27710	2310	21.40	23.00	1.445	-	-	-0.13	0.098	0.142
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	27710	2310	12.45	14.00	1.429	-	-	0.04	0.542	0.774
21	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	27710	2310	12.45	14.00	1.429	-	-	0.12	0.612	0.874
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	27710	2310	12.45	14.00	1.429	-	-	-0.16	0.231	0.330
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI2	27710	2310	12.45	14.00	1.429	-	-	0.19	0.304	0.434
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	ECI2	27710	2310	12.37	14.00	1.455	-	-	-0.03	0.513	0.747
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	ECI2	27710	2310	12.37	14.00	1.455	-	-	0.09	0.582	0.847
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI2	27710	2310	12.37	14.00	1.455	-	-	-0.1	0.221	0.322
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	ECI2	27710	2310	12.37	14.00	1.455	-	-	0.09	0.290	0.422
	LTE Band 30	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI2	27710	2310	12.35	14.00	1.462	-	-	-0.07	0.532	0.778
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	ECI2	462000	2310	22.32	24.00	1.472	-	-	0.02	0.266	0.392
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	ECI2	462000	2310	22.32	24.00	1.472	-	-	-0.03	0.083	0.122
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI2	462000	2310	22.32	24.00	1.472	-	-	0.01	0.157	0.231
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	ECI2	462000	2310	22.32	24.00	1.472	-	-	-0.02	0.109	0.160
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 2	ECI2	462000	2310	22.15	24.00	1.531	-	-	0.17	0.310	0.475
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 2	ECI2	462000	2310	22.15	24.00	1.531	-	-	-0.17	0.097	0.149
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 2	ECI2	462000	2310	22.15	24.00	1.531	-	-	-0.03	0.187	0.286
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 2	ECI2	462000	2310	22.15	24.00	1.531	-	-	0.11	0.125	0.191
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI2	462000	2310	13.84	15.50	1.466	-	-	0.17	0.445	0.652
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI2	462000	2310	13.84	15.50	1.466	-	-	-0.06	0.525	0.769
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI2	462000	2310	13.84	15.50	1.466	-	-	0.19	0.235	0.344
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI2	462000	2310	13.84	15.50	1.466	-	-	0.18	0.414	0.607
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 1	ECI2	462000	2310	13.82	15.50	1.472	-	-	0	0.455	0.670
22	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 1	ECI2	462000	2310	13.82	15.50	1.472	-	-	-0.15	0.549	0.808
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 1	ECI2	462000	2310	13.82	15.50	1.472	-	-	-0.15	0.252	0.371
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 1	ECI2	462000	2310	13.82	15.50	1.472	-	-	0.01	0.441	0.649
	FR1 n30	10M	QPSK	50	0	DFT-15	Right Tilted	0mm	Ant 1	ECI2	462000	2310	13.78	15.50	1.486	-	-	-0.05	0.521	0.774
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI2	21100	2535	22.82	24.00	1.312	-	-	0.08	0.291	0.382
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI2	21100	2535	22.82	24.00	1.312	-	-	-0.17	0.116	0.152
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI2	21100	2535	22.82	24.00	1.312	-	-	-0.05	0.233	0.306
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI2	21100	2535	22.82	24.00	1.312	-	-	0.07	0.127	0.167
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI2	21100	2535	21.78	23.00	1.324	-	-	-0.06	0.254	0.336
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI2	21100	2535	21.78	23.00	1.324	-	-	0.18	0.106	0.140
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI2	21100	2535	21.78	23.00	1.324	-	-	-0.17	0.182	0.241
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI2	21100	2535	21.78	23.00	1.324	-	-	-0.16	0.103	0.136
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI2	21100	2535	16.09	17.00	1.233	-	-	0.09	0.611	0.753
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	ECI2	21100	2535	16.09	17.00	1.233	-	-	-0.07	0.188	0.232
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	ECI2	21100	2535	16.09	17.00	1.233	-	-	-0.13	0.210	0.259
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	ECI2	21100	2535	16.09	17.00	1.233	-	-	-0.02	0.104	0.128
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	ECI2	21100	2535	16.08	17.00	1.236	-	-	0.1	0.585	0.723
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	ECI2	21100	2535	16.08	17.00	1.236	-	-	-0.04	0.182	0.225
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	ECI2	21100	2535	16.08	17.00	1.236	-	-	-0.01	0.200	0.247
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	ECI2	21100	2535	16.08	17.00	1.236	-	-	0.09	0.099	0.122
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI2	21100	2535	13.27	14.50	1.327	-	-	-0.1	0.378	0.502
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	21100	2535	13.27	14.50	1.327	-	-	-0.1	0.610	0.810
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI2	21100	2535	13.27	14.50	1.327	-	-	-0.11	0.183	0.243
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI2	21100	2535	13.27	14.50	1.327	-	-	-0.05	0.228	0.303
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	20850	2510	13.18	14.50	1.355	-	-	0.18	0.594	0.805
23	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	21350	2560	13.09	14.50	1.384	-	-	-0.12	0.600	0.830
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI2	21100	2535	13.25	14.50	1.334	-	-	-0.12	0.355	0.473
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI2	21100	2535	13.25	14.50	1.334	-	-	0.02	0.605	0.807
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI2	21100	2535	13.25	14.50	1.334	-	-	-0.06	0.173	0.231
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI2	21100	2535	13.25	14.50	1.334	-	-	-0.09	0.220	0.293
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI2	20850	2510	13.20	14.50	1.349	-	-	-0.08	0.566	0.764
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI2	21350	2560	13.10	14.50	1.380	-	-	-0.08	0.586	0.809



FCC SAR Test Report

Report No. : FA612609

	LTE Band 7	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	ECI2	21100	2535	13.16	14.50	1.361	-	-	0.15	0.583	0.794
	LTE Band 41	20M	QPSK	1	49	-	Right Cheek	0mm	Ant 2	ECI2	41490	2680	22.95	24.00	1.274	62.90	1.006	0.16	0.175	0.224
	LTE Band 41C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI2	41490 41292	2680 2660.2	22.70	24.00	1.349	62.90	1.006	0.08	0.161	0.218
	LTE Band 41	20M	QPSK	1	49	-	Right Tilted	0mm	Ant 2	ECI2	41490	2680	22.95	24.00	1.274	62.90	1.006	0.02	0.059	0.076
	LTE Band 41	20M	QPSK	1	49	-	Left Cheek	0mm	Ant 2	ECI2	41490	2680	22.95	24.00	1.274	62.90	1.006	0.03	0.112	0.143
	LTE Band 41	20M	QPSK	1	49	-	Left Tilted	0mm	Ant 2	ECI2	41490	2680	22.95	24.00	1.274	62.90	1.006	0.09	0.084	0.108
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Right Cheek	0mm	Ant 2	ECI2	41490	2680	25.71	27.00	1.346	42.90	1.009	0	0.214	0.291
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI2	41490 41292	2680 2660.2	25.55	27.00	1.396	42.90	1.009	0.03	0.205	0.289
	LTE Band 41	20M	QPSK	50	24	-	Right Cheek	0mm	Ant 2	ECI2	41490	2535	21.95	23.00	1.274	62.90	1.006	0.09	0.153	0.196
	LTE Band 41	20M	QPSK	50	24	-	Right Tilted	0mm	Ant 2	ECI2	41490	2535	21.95	23.00	1.274	62.90	1.006	-0.07	0.073	0.094
	LTE Band 41	20M	QPSK	50	24	-	Left Cheek	0mm	Ant 2	ECI2	41490	2535	21.95	23.00	1.274	62.90	1.006	-0.11	0.097	0.124
	LTE Band 41	20M	QPSK	50	24	-	Left Tilted	0mm	Ant 2	ECI2	41490	2535	21.95	23.00	1.274	62.90	1.006	-0.08	0.066	0.085
	LTE Band 41	20M	QPSK	1	49	-	Right Cheek	0mm	Ant 9	ECI2	41490	2680	19.39	20.00	1.151	62.90	1.006	0.15	0.707	0.818
	LTE Band 41	20M	QPSK	1	49	-	Right Tilted	0mm	Ant 9	ECI2	41490	2680	19.39	20.00	1.151	62.90	1.006	-0.05	0.185	0.214
	LTE Band 41	20M	QPSK	1	49	-	Left Cheek	0mm	Ant 9	ECI2	41490	2680	19.39	20.00	1.151	62.90	1.006	0.07	0.224	0.259
	LTE Band 41	20M	QPSK	1	49	-	Left Tilted	0mm	Ant 9	ECI2	41490	2680	19.39	20.00	1.151	62.90	1.006	-0.18	0.097	0.112
	LTE Band 41	20M	QPSK	1	49	-	Right Cheek	0mm	Ant 9	ECI2	39750	2506	19.01	20.00	1.256	62.90	1.006	-0.12	0.611	0.772
	LTE Band 41	20M	QPSK	1	49	-	Right Cheek	0mm	Ant 9	ECI2	40185	2549.5	18.80	20.00	1.318	62.90	1.006	0.02	0.642	0.851
24	LTE Band 41	20M	QPSK	1	49	-	Right Cheek	0mm	Ant 9	ECI2	40620	2593	18.90	20.00	1.288	62.90	1.006	-0.12	0.665	0.862
	LTE Band 41C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI2	41490 41292	2680 2660.2	19.38	20.00	1.153	62.90	1.006	0.02	0.571	0.663
	LTE Band 41	20M	QPSK	1	49	-	Right Cheek	0mm	Ant 9	ECI2	41055	2636.5	18.97	20.00	1.268	62.90	1.006	-0.17	0.635	0.810
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Right Cheek	0mm	Ant 9	ECI2	40620	2593	20.47	21.60	1.297	42.90	1.009	-0.19	0.633	0.829
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	ECI2	41490 41292	2680 2660.2	21.13	21.60	1.114	42.90	1.009	0.04	0.628	0.706
	LTE Band 41	20M	QPSK	50	24	-	Right Cheek	0mm	Ant 9	ECI2	41490	2535	19.33	20.00	1.167	62.90	1.006	-0.12	0.661	0.776
	LTE Band 41	20M	QPSK	50	24	-	Right Tilted	0mm	Ant 9	ECI2	41490	2535	19.33	20.00	1.167	62.90	1.006	-0.19	0.145	0.170
	LTE Band 41	20M	QPSK	50	24	-	Left Cheek	0mm	Ant 9	ECI2	41490	2535	19.33	20.00	1.167	62.90	1.006	-0.17	0.187	0.220
	LTE Band 41	20M	QPSK	50	24	-	Left Tilted	0mm	Ant 9	ECI2	41490	2535	19.33	20.00	1.167	62.90	1.006	-0.08	0.079	0.093
	LTE Band 41	20M	QPSK	50	24	-	Right Cheek	0mm	Ant 9	ECI2	39750	2506	18.97	20.00	1.268	62.90	1.006	0.18	0.470	0.599
	LTE Band 41	20M	QPSK	50	24	-	Right Cheek	0mm	Ant 9	ECI2	40185	2549.5	18.76	20.00	1.330	62.90	1.006	0.05	0.506	0.677
	LTE Band 41	20M	QPSK	50	24	-	Right Cheek	0mm	Ant 9	ECI2	40620	2593	18.87	20.00	1.297	62.90	1.006	0.12	0.561	0.732
	LTE Band 41	20M	QPSK	50	24	-	Right Cheek	0mm	Ant 9	ECI2	41055	2636.5	18.93	20.00	1.279	62.90	1.006	-0.02	0.541	0.696
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 9	ECI2	41490	2680	19.30	20.00	1.175	62.90	1.006	-0.16	0.665	0.786
	LTE Band 41	20M	QPSK	1	49	-	Right Cheek	0mm	Ant 1	ECI2	40185	2549.5	16.40	17.50	1.288	62.90	1.006	-0.02	0.451	0.584
	LTE Band 41	20M	QPSK	1	49	-	Right Tilted	0mm	Ant 1	ECI2	40185	2549.5	16.40	17.50	1.288	62.90	1.006	-0.09	0.568	0.736
	LTE Band 41	20M	QPSK	1	49	-	Left Cheek	0mm	Ant 1	ECI2	40185	2549.5	16.40	17.50	1.288	62.90	1.006	-0.1	0.210	0.272
	LTE Band 41	20M	QPSK	1	49	-	Left Tilted	0mm	Ant 1	ECI2	40185	2549.5	16.40	17.50	1.288	62.90	1.006	-0.01	0.275	0.356
	LTE Band 41	20M	QPSK	1	49	-	Right Tilted	0mm	Ant 1	ECI2	39750	2506	16.32	17.50	1.312	62.90	1.006	0.15	0.542	0.715
	LTE Band 41	20M	QPSK	1	49	-	Right Tilted	0mm	Ant 1	ECI2	40620	2593	16.11	17.50	1.377	62.90	1.006	0.05	0.531	0.736
	LTE Band 41	20M	QPSK	1	49	-	Right Tilted	0mm	Ant 1	ECI2	41055	2636.5	15.93	17.50	1.435	62.90	1.006	0.04	0.584	0.843
	LTE Band 41C	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	40185 40383	2549.5 2569.3	16.05	17.50	1.396	62.90	1.006	0.03	0.501	0.704
	LTE Band 41	20M	QPSK	1	49	-	Right Tilted	0mm	Ant 1	ECI2	41490	2680	16.08	17.50	1.387	62.90	1.006	-0.06	0.436	0.608
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Right Tilted	0mm	Ant 1	ECI2	41055	2636.5	18.17	19.10	1.239	42.90	1.009	0.19	0.620	0.775
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI2	40185 40383	2549.5 2569.3	17.79	19.10	1.352	42.90	1.009	0.06	0.403	0.550
	LTE Band 41	20M	QPSK	50	24	-	Right Cheek	0mm	Ant 1	ECI2	40185	2549.5	16.35	17.50	1.303	62.90	1.006	0.08	0.435	0.570
	LTE Band 41	20M	QPSK	50	24	-	Right Tilted	0mm	Ant 1	ECI2	40185	2549.5	16.35	17.50	1.303	62.90	1.006	-0.01	0.554	0.726
	LTE Band 41	20M	QPSK	50	24	-	Left Cheek	0mm	Ant 1	ECI2	40185	2549.5	16.35	17.50	1.303	62.90	1.006	0.05	0.198	0.260
	LTE Band 41	20M	QPSK	50	24	-	Left Tilted	0mm	Ant 1	ECI2	40185	2549.5	16.35	17.50	1.303	62.90	1.006	-0.05	0.263	0.345
	LTE Band 41	20M	QPSK	50	24	-	Right Tilted	0mm	Ant 1	ECI2	39750	2506	16.26	17.50	1.330	62.90	1.006	-0.01	0.524	0.701
	LTE Band 41	20M	QPSK	50	24	-	Right Tilted	0mm	Ant 1	ECI2	40620	2593	16.09	17.50	1.384	62.90	1.006	0.11	0.497	0.692
	LTE Band 41	20M	QPSK	50	24	-	Right Tilted	0mm	Ant 1	ECI2	41055	2636.5	15.87	17.50	1.455	62.90	1.006	-0.09	0.555	0.813
	LTE Band 41	20M	QPSK	50	24	-	Right Tilted	0mm	Ant 1	ECI2	41490	2680	16.07	17.50	1.390	62.90	1.006	0.11	0.423	0.591
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	ECI2	40185	2549.5	16.31	17.50	1.315	62.90	1.006	0.17	0.516	0.683
	FR1 n7	50M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	ECI2	507000	2535	22.53	24.00	1.403	-	-	0.16	0.248	0.348
	FR1 n7	50M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	ECI2	507000	2535	22.53	24.00	1.403	-	-	-0.19	0.075	0.105



FCC SAR Test Report

Report No. : FA612609

	FR1 n7	50M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI2	507000	2535	22.53	24.00	1.403	-	-	0.01	0.159	0.223
	FR1 n7	50M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	ECI2	507000	2535	22.53	24.00	1.403	-	-	-0.12	0.104	0.146
	FR1 n7	50M	QPSK	135	68	DFT-15	Right Cheek	0mm	Ant 2	ECI2	507000	2535	22.39	24.00	1.449	-	-	0.08	0.287	0.416
	FR1 n7	50M	QPSK	135	68	DFT-15	Right Tilted	0mm	Ant 2	ECI2	507000	2535	22.39	24.00	1.449	-	-	-0.01	0.086	0.125
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Cheek	0mm	Ant 2	ECI2	507000	2535	22.39	24.00	1.449	-	-	-0.14	0.167	0.242
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Tilted	0mm	Ant 2	ECI2	507000	2535	22.39	24.00	1.449	-	-	-0.04	0.128	0.185
	FR1 n7	50M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI2	507000	2535	13.00	14.50	1.413	-	-	0.1	0.420	0.593
	FR1 n7	50M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI2	507000	2535	13.00	14.50	1.413	-	-	0.12	0.519	0.733
	FR1 n7	50M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI2	507000	2535	13.00	14.50	1.413	-	-	0.1	0.211	0.298
	FR1 n7	50M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI2	507000	2535	13.00	14.50	1.413	-	-	-0.13	0.284	0.401
	FR1 n7	50M	QPSK	135	68	DFT-15	Right Cheek	0mm	Ant 1	ECI2	507000	2535	12.94	14.50	1.432	-	-	-0.08	0.437	0.626
25	FR1 n7	50M	QPSK	135	68	DFT-15	Right Tilted	0mm	Ant 1	ECI2	507000	2535	12.94	14.50	1.432	-	-	0.09	0.547	0.783
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Cheek	0mm	Ant 1	ECI2	507000	2535	12.94	14.50	1.432	-	-	0.12	0.220	0.315
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Tilted	0mm	Ant 1	ECI2	507000	2535	12.94	14.50	1.432	-	-	0.1	0.291	0.417
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	ECI2	518598	2592.99	22.68	24.00	1.355	-	-	-0.19	0.229	0.310
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	ECI2	518598	2592.99	22.68	24.00	1.355	-	-	0	0.069	0.094
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	ECI2	518598	2592.99	22.68	24.00	1.355	-	-	0.06	0.128	0.173
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	ECI2	518598	2592.99	22.68	24.00	1.355	-	-	-0.1	0.101	0.137
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	ECI2	518598	2592.99	22.47	24.00	1.422	-	-	0.1	0.281	0.400
	FR1 n41C	100M	QPSK	180	93	DFT-30	Right Cheek	0mm	Ant 2	ECI2	520056 534000	2600.28 2670	22.81	24.00	1.315	-	-	0.06	0.261	0.343
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	ECI2	518598	2592.99	22.47	24.00	1.422	-	-	-0.09	0.087	0.124
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	ECI2	518598	2592.99	22.47	24.00	1.422	-	-	0.02	0.175	0.249
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	ECI2	518598	2592.99	22.47	24.00	1.422	-	-	-0.05	0.099	0.141
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	ECI2	518598	2592.99	25.52	27.00	1.406	50.00	1.000	0.1	0.275	0.387
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	ECI2	518598	2592.99	16.14	17.50	1.368	-	-	0.19	0.620	0.848
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 9	ECI2	518598	2592.99	16.14	17.50	1.368	-	-	-0.14	0.138	0.189
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 9	ECI2	518598	2592.99	16.14	17.50	1.368	-	-	-0.03	0.193	0.264
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 9	ECI2	518598	2592.99	16.14	17.50	1.368	-	-	-0.01	0.074	0.101
26	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	ECI2	518598	2592.99	16.06	17.50	1.393	-	-	-0.03	0.630	0.878
	FR1 n41C	100M	QPSK	180	93	DFT-30	Right Cheek	0mm	Ant 9	ECI2	520056 534000	2600.28 2670	16.21	17.50	1.346	-	-	0.02	0.581	0.782
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 9	ECI2	518598	2592.99	16.06	17.50	1.393	-	-	0.03	0.145	0.202
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 9	ECI2	518598	2592.99	16.06	17.50	1.393	-	-	-0.15	0.202	0.281
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 9	ECI2	518598	2592.99	16.06	17.50	1.393	-	-	-0.09	0.076	0.106
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	ECI2	518598	2592.99	19.36	20.50	1.300	50.00	1.000	-0.03	0.644	0.837
	FR1 n41	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 9	ECI2	518598	2592.99	15.98	17.50	1.419	-	-	0.16	0.601	0.853
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	ECI2	518598	2592.99	13.78	15.00	1.324	-	-	-0.19	0.569	0.754
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	ECI2	518598	2592.99	13.78	15.00	1.324	-	-	0.11	0.641	0.849
	FR1 n41C	100M	QPSK	180	93	DFT-30	Right Tilted	0mm	Ant 1	ECI2	520056 534000	2600.28 2670	13.73	15.00	1.340	-	-	-0.03	0.582	0.780
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	ECI2	518598	2592.99	13.78	15.00	1.324	-	-	-0.06	0.300	0.397
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	ECI2	518598	2592.99	13.78	15.00	1.324	-	-	0.16	0.404	0.535
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	ECI2	518598	2592.99	16.84	18.00	1.306	50.00	1.000	0.11	0.622	0.812
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	ECI2	518598	2592.99	13.76	15.00	1.330	-	-	0.08	0.550	0.732
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	ECI2	518598	2592.99	13.76	15.00	1.330	-	-	-0.07	0.612	0.814
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	ECI2	518598	2592.99	13.76	15.00	1.330	-	-	0	0.289	0.385
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	ECI2	518598	2592.99	13.76	15.00	1.330	-	-	-0.08	0.381	0.507
	FR1 n41	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 1	ECI2	518598	2592.99	13.70	15.00	1.349	-	-	-0.03	0.537	0.724
	FR1 n41	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 1	ECI2	518598	2592.99	13.70	15.00	1.349	-	-	-0.16	0.586	0.790
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	ECI2	518598	2592.99	22.71	24.00	1.346	-	-	0.13	0.218	0.293
	FR1 n41C	100M 40M	QPSK	180	93	DFT-30	Right Cheek	0mm	Ant 0	ECI2	520056 534000	2600.28 2670	22.84	24.00	1.306	-	-	0.13	0.222	0.290
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 0	ECI2	518598	2592.99	22.71	24.00	1.346	-	-	0.19	0.074	0.100
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 0	ECI2	518598	2592.99	22.71	24.00	1.346	-	-	-0.03	0.181	0.244
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 0	ECI2	518598	2592.99	22.71	24.00	1.346	-	-	-0.18	0.050	0.067
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 0	ECI2	518598	2592.99	25.74	27.00	1.337	50.00	1.000	0.13	0.204	0.273
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 0	ECI2	518598	2592.99	22.52	24.00	1.406	-	-	0.04	0.191	0.269
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 0	ECI2	518598	2592.99	22.52	24.00	1.406	-	-	0.03	0.070	0.098



FCC SAR Test Report

Report No. : FA612609

	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 0	ECI2	518598	2592.99	22.52	24.00	1.406	-	-	-0.06	0.151	0.212
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 0	ECI2	518598	2592.99	22.52	24.00	1.406	-	-	-0.07	0.041	0.058
3-4GHZ																				
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI2	42590	3500	13.94	15.50	1.432	62.90	1.006	0.11	0.458	0.660
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	ECI2	42590	3500	13.94	15.50	1.432	62.90	1.006	-0.01	0.169	0.243
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI2	42590	3500	13.94	15.50	1.432	62.90	1.006	-0.08	0.078	0.112
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	ECI2	42590	3500	13.94	15.50	1.432	62.90	1.006	0.06	0.056	0.081
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI2	42590	3500	13.88	15.50	1.452	62.90	1.006	0.02	0.396	0.578
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	ECI2	42590	3500	13.88	15.50	1.452	62.90	1.006	-0.11	0.149	0.218
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI2	42590	3500	13.88	15.50	1.452	62.90	1.006	-0.07	0.068	0.099
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	ECI2	42590	3500	13.88	15.50	1.452	62.90	1.006	-0.02	0.048	0.070
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI2	43340	3575	13.93	15.50	1.435	62.90	1.006	0.06	0.457	0.660
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	ECI2	43340	3575	13.93	15.50	1.435	62.90	1.006	0.12	0.166	0.240
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI2	43340	3575	13.93	15.50	1.435	62.90	1.006	-0.05	0.101	0.146
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	ECI2	43340	3575	13.93	15.50	1.435	62.90	1.006	-0.08	0.068	0.098
27	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI2	43340	3575	13.87	15.50	1.455	62.90	1.006	-0.19	0.469	0.687
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	ECI2	43340	3575	13.87	15.50	1.455	62.90	1.006	0.19	0.163	0.239
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI2	43340	3575	13.87	15.50	1.455	62.90	1.006	0.12	0.099	0.145
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	ECI2	43340	3575	13.87	15.50	1.455	62.90	1.006	0.02	0.069	0.101
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI2	55830	3609	13.56	15.00	1.393	62.90	1.006	0.15	0.470	0.659
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	ECI2	55830	3609	13.56	15.00	1.393	62.90	1.006	-0.14	0.170	0.238
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI2	55830	3609	13.56	15.00	1.393	62.90	1.006	0.05	0.086	0.121
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	ECI2	55830	3609	13.56	15.00	1.393	62.90	1.006	0.01	0.059	0.083
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI2	55340	3560	13.38	15.00	1.452	62.90	1.006	-0.07	0.424	0.619
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI2	56150	3641	13.39	15.00	1.449	62.90	1.006	-0.06	0.471	0.686
	LTE Band 48C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI2	56150 56348	3641 3660.8	13.48	15.00	1.419	62.90	1.006	0.03	0.456	0.651
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI2	56640	3690	13.49	15.00	1.416	62.90	1.006	0.16	0.470	0.669
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI2	55830	3609	13.50	15.00	1.413	62.90	1.006	0.1	0.443	0.630
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	ECI2	55830	3609	13.50	15.00	1.413	62.90	1.006	0.13	0.153	0.217
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI2	55830	3609	13.50	15.00	1.413	62.90	1.006	-0.02	0.079	0.112
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	ECI2	55830	3609	13.50	15.00	1.413	62.90	1.006	-0.08	0.051	0.072
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI2	55340	3560	13.36	15.00	1.459	62.90	1.006	-0.09	0.404	0.593
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI2	56150	3641	13.32	15.00	1.472	62.90	1.006	-0.03	0.432	0.640
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI2	56640	3690	13.48	15.00	1.419	62.90	1.006	-0.15	0.428	0.611
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 7	ECI2	55830	3609	13.46	15.00	1.426	62.90	1.006	-0.09	0.438	0.628
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI2	55830	3609	14.48	16.00	1.419	62.90	1.006	0.12	0.135	0.193
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI2	55830	3609	14.48	16.00	1.419	62.90	1.006	-0.17	0.109	0.156
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI2	55830	3609	14.48	16.00	1.419	62.90	1.006	-0.15	0.469	0.670
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI2	55830	3609	14.48	16.00	1.419	62.90	1.006	-0.17	0.228	0.325
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI2	55340	3560	14.33	16.00	1.469	62.90	1.006	0.17	0.361	0.533
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI2	56150	3641	14.34	16.00	1.466	62.90	1.006	-0.01	0.454	0.669
28	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI2	56640	3690	14.29	16.00	1.483	62.90	1.006	-0.08	0.566	0.844
	LTE Band 48C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI2	56150 56348	3641 3660.8	14.37	16.00	1.455	62.90	1.006	0.03	0.449	0.657
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI2	55830	3609	14.47	16.00	1.422	62.90	1.006	0.02	0.126	0.180
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI2	55830	3609	14.47	16.00	1.422	62.90	1.006	0.19	0.100	0.143
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI2	55830	3609	14.47	16.00	1.422	62.90	1.006	0.01	0.420	0.601
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI2	55830	3609	14.47	16.00	1.422	62.90	1.006	0.13	0.209	0.299
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI2	55340	3560	14.27	16.00	1.489	62.90	1.006	-0.1	0.342	0.512
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI2	56150	3641	14.27	16.00	1.489	62.90	1.006	-0.01	0.414	0.620
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI2	56640	3690	14.23	16.00	1.503	62.90	1.006	-0.03	0.497	0.752
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 5	ECI2	55830	3609	14.45	16.00	1.429	62.90	1.006	-0.02	0.394	0.566
29	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECI2	641666	3624.99	12.93	14.50	1.435	-	-	-0.1	0.571	0.820
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	ECI2	641666	3624.99	12.93	14.50	1.435	-	-	0.09	0.200	0.287
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECI2	641666	3624.99	12.93	14.50	1.435	-	-	0	0.103	0.148
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECI2	641666	3624.99	12.93	14.50	1.435	-	-	-0.13	0.067	0.096



FCC SAR Test Report

Report No. : FA612609

	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECI2	638000	3570	12.83	14.50	1.469	-	-	0.01	0.521	0.765
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECI2	645332	3679.98	12.90	14.50	1.445	-	-	0.09	0.532	0.769
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 7	ECI2	641666	3624.99	12.90	14.50	1.445	-	-	0.18	0.555	0.802
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 7	ECI2	641666	3624.99	12.90	14.50	1.445	-	-	0.15	0.191	0.276
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 7	ECI2	641666	3624.99	12.90	14.50	1.445	-	-	0.15	0.098	0.142
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 7	ECI2	641666	3624.99	12.90	14.50	1.445	-	-	-0.11	0.064	0.093
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 7	ECI2	638000	3570	12.79	14.50	1.483	-	-	-0.11	0.532	0.789
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 7	ECI2	645332	3679.98	12.82	14.50	1.472	-	-	0.05	0.511	0.752
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Cheek	0mm	Ant 7	ECI2	641666	3624.99	12.87	14.50	1.455	-	-	-0.1	0.515	0.750
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	ECI2	641666	3624.99	12.54	14.00	1.400	-	-	-0.03	0.149	0.209
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	ECI2	641666	3624.99	12.54	14.00	1.400	-	-	-0.03	0.124	0.174
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI2	641666	3624.99	12.54	14.00	1.400	-	-	0.11	0.519	0.726
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	ECI2	641666	3624.99	12.54	14.00	1.400	-	-	-0.03	0.278	0.389
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI2	638000	3570	12.46	14.00	1.426	-	-	-0.14	0.485	0.691
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI2	645332	3679.98	12.50	14.00	1.413	-	-	0.14	0.536	0.757
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 5	ECI2	641666	3624.99	12.48	14.00	1.419	-	-	0.11	0.154	0.219
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 5	ECI2	641666	3624.99	12.48	14.00	1.419	-	-	0.03	0.127	0.180
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 5	ECI2	641666	3624.99	12.48	14.00	1.419	-	-	-0.1	0.523	0.742
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 5	ECI2	641666	3624.99	12.48	14.00	1.419	-	-	-0.18	0.284	0.403
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 5	ECI2	638000	3570	12.43	14.00	1.435	-	-	0.07	0.495	0.711
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 5	ECI2	645332	3679.98	12.43	14.00	1.435	-	-	-0.18	0.559	0.802
	FR1 n48	40M	QPSK	100	0	DFT-30	Left Cheek	0mm	Ant 5	ECI2	641666	3624.99	12.43	14.00	1.435	-	-	0.04	0.508	0.729
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	ECI2	641666	3624.99	22.93	24.00	1.279	-	-	-0.15	0.156	0.200
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	ECI2	641666	3624.99	22.93	24.00	1.279	-	-	0.18	0.109	0.139
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 10	ECI2	641666	3624.99	22.93	24.00	1.279	-	-	0.19	0.088	0.113
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 10	ECI2	641666	3624.99	22.93	24.00	1.279	-	-	0.04	0.113	0.145
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 10	ECI2	641666	3624.99	22.55	24.00	1.396	-	-	-0.06	0.139	0.194
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 10	ECI2	641666	3624.99	22.55	24.00	1.396	-	-	-0.1	0.107	0.149
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 10	ECI2	641666	3624.99	22.55	24.00	1.396	-	-	-0.08	0.074	0.103
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 10	ECI2	641666	3624.99	22.55	24.00	1.396	-	-	0.01	0.098	0.137
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	ECI2	641666	3624.99	14.12	14.50	1.091	-	-	-0.09	0.390	0.426
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	ECI2	641666	3624.99	14.12	14.50	1.091	-	-	0.07	0.482	0.526
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	ECI2	641666	3624.99	14.12	14.50	1.091	-	-	0.19	0.519	0.566
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	ECI2	641666	3624.99	14.12	14.50	1.091	-	-	-0.03	0.668	0.729
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	ECI2	638000	3570	13.94	14.50	1.138	-	-	-0.17	0.657	0.747
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	ECI2	645332	3679.98	14.06	14.50	1.107	-	-	-0.08	0.689	0.762
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 4	ECI2	641666	3624.99	14.07	14.50	1.104	-	-	0.16	0.412	0.455
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 4	ECI2	641666	3624.99	14.07	14.50	1.104	-	-	-0.19	0.501	0.553
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 4	ECI2	641666	3624.99	14.07	14.50	1.104	-	-	-0.03	0.541	0.597
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 4	ECI2	641666	3624.99	14.07	14.50	1.104	-	-	-0.06	0.680	0.751
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 4	ECI2	638000	3570	13.86	14.50	1.159	-	-	-0.13	0.694	0.804
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 4	ECI2	645332	3679.98	14.02	14.50	1.117	-	-	-0.11	0.720	0.804
	FR1 n48	40M	QPSK	100	0	DFT-30	Left Tilted	0mm	Ant 4	ECI2	641666	3624.99	14.03	14.50	1.114	-	-	-0.14	0.652	0.727
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECI2	633332	3499.98	11.81	13.50	1.476	-	-	0.17	0.340	0.502
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	ECI2	633332	3499.98	11.81	13.50	1.476	-	-	-0.14	0.112	0.165
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECI2	633332	3499.98	11.81	13.50	1.476	-	-	0	0.070	0.103
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECI2	633332	3499.98	11.81	13.50	1.476	-	-	-0.07	0.043	0.063
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	ECI2	633332	3499.98	11.76	13.50	1.493	-	-	-0.15	0.346	0.517
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	ECI2	633332	3499.98	11.76	13.50	1.493	-	-	0.12	0.118	0.176
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECI2	633332	3499.98	11.76	13.50	1.493	-	-	0.07	0.072	0.107
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	ECI2	633332	3499.98	11.76	13.50	1.493	-	-	-0.16	0.045	0.067
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	ECI2	633332	3499.98	14.61	16.50	1.545	50.00	1.000	-0.15	0.324	0.501
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECI2	656000	3840	11.83	13.50	1.469	-	-	0.16	0.467	0.686
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	ECI2	656000	3840	11.83	13.50	1.469	-	-	0.17	0.178	0.261
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECI2	656000	3840	11.83	13.50	1.469	-	-	-0.06	0.094	0.138
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECI2	656000	3840	11.83	13.50	1.469	-	-	0.19	0.067	0.098



FCC SAR Test Report

Report No. : FA612609

	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	ECI2	656000	3840	11.80	13.50	1.479	-	-	0.13	0.489	0.723
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Right Cheek	0mm	Ant 7	ECI2	650000 654648	3750 3819.72	11.89	13.50	1.449	-	-	0.17	0.462	0.669
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	ECI2	656000	3840	11.80	13.50	1.479	-	-	-0.15	0.186	0.275
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECI2	656000	3840	11.80	13.50	1.479	-	-	0.15	0.096	0.142
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	ECI2	656000	3840	11.80	13.50	1.479	-	-	0.04	0.071	0.105
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	ECI2	656000	3840	14.83	16.50	1.469	50.00	1.000	0.13	0.465	0.683
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 7	ECI2	656000	3840	11.79	13.50	1.483	-	-	0.07	0.446	0.661
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	ECI2	633332	3499.98	10.94	12.50	1.432	-	-	-0.11	0.094	0.135
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	ECI2	633332	3499.98	10.94	12.50	1.432	-	-	0.19	0.080	0.115
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI2	633332	3499.98	10.94	12.50	1.432	-	-	0.16	0.317	0.454
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	ECI2	633332	3499.98	10.94	12.50	1.432	-	-	0.01	0.144	0.206
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	ECI2	633332	3499.98	10.93	12.50	1.435	-	-	-0.13	0.105	0.151
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	ECI2	633332	3499.98	10.93	12.50	1.435	-	-	-0.12	0.085	0.122
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	ECI2	633332	3499.98	10.93	12.50	1.435	-	-	0.17	0.351	0.504
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	ECI2	633332	3499.98	10.93	12.50	1.435	-	-	-0.14	0.175	0.251
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	ECI2	633332	3499.98	13.81	15.50	1.476	50.00	1.000	0.17	0.342	0.505
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	ECI2	656000	3840	11.17	12.50	1.358	-	-	0.08	0.210	0.285
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	ECI2	656000	3840	11.17	12.50	1.358	-	-	0.12	0.203	0.276
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI2	656000	3840	11.17	12.50	1.358	-	-	0.04	0.580	0.788
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	ECI2	656000	3840	11.17	12.50	1.358	-	-	-0.1	0.354	0.481
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	ECI2	656000	3840	11.12	12.50	1.374	-	-	0.1	0.213	0.293
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	ECI2	656000	3840	11.12	12.50	1.374	-	-	-0.16	0.205	0.282
30	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	ECI2	656000	3840	11.12	12.50	1.374	-	-	0.14	0.584	0.802
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Left Cheek	0mm	Ant 5	ECI2	650000 654648	3750 3819.72	11.16	12.50	1.361	-	-	0.12	0.533	0.726
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	ECI2	656000	3840	11.12	12.50	1.374	-	-	-0.11	0.356	0.489
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	ECI2	656000	3840	13.92	15.50	1.439	50.00	1.000	0.14	0.543	0.781
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 5	ECI2	656000	3840	11.08	12.50	1.387	-	-	-0.07	0.562	0.779
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Left Tilted	0mm	Ant 5	ECI2	656000	3840	11.08	12.50	1.387	-	-	-0.15	0.337	0.467
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	ECI2	633332	3499.98	23.73	24.00	1.064	-	-	-0.09	0.464	0.494
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	ECI2	633332	3499.98	23.73	24.00	1.064	-	-	-0.09	0.154	0.164
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 10	ECI2	633332	3499.98	23.73	24.00	1.064	-	-	0.19	0.226	0.240
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 10	ECI2	633332	3499.98	23.73	24.00	1.064	-	-	-0.09	0.182	0.194
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 10	ECI2	633332	3499.98	23.66	24.00	1.081	-	-	0.09	0.459	0.496
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 10	ECI2	633332	3499.98	23.66	24.00	1.081	-	-	-0.02	0.145	0.157
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 10	ECI2	633332	3499.98	23.66	24.00	1.081	-	-	-0.19	0.227	0.245
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 10	ECI2	633332	3499.98	23.66	24.00	1.081	-	-	0.1	0.179	0.194
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 10	ECI2	633332	3499.98	26.47	27.00	1.130	50.00	1.000	0.09	0.421	0.476
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	ECI2	656000	3840	23.87	24.00	1.030	-	-	-0.1	0.342	0.352
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Right Cheek	0mm	Ant 10	ECI2	650000 654648	3750 3819.72	23.76	24.00	1.057	-	-	0.09	0.316	0.334
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	ECI2	656000	3840	23.87	24.00	1.030	-	-	-0.15	0.211	0.217
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 10	ECI2	656000	3840	23.87	24.00	1.030	-	-	0.11	0.182	0.188
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 10	ECI2	656000	3840	23.87	24.00	1.030	-	-	-0.15	0.266	0.274
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	ECI2	656000	3840	26.88	27.00	1.028	50.00	1.000	-0.1	0.321	0.330
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 10	ECI2	656000	3840	23.77	24.00	1.054	-	-	-0.05	0.308	0.325
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 10	ECI2	656000	3840	23.77	24.00	1.054	-	-	-0.03	0.204	0.215
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 10	ECI2	656000	3840	23.77	24.00	1.054	-	-	-0.18	0.182	0.192
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 10	ECI2	656000	3840	23.77	24.00	1.054	-	-	0.01	0.250	0.264
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	ECI2	633332	3499.98	12.98	14.50	1.419	-	-	-0.15	0.156	0.221
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	ECI2	633332	3499.98	12.98	14.50	1.419	-	-	0.07	0.188	0.267
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	ECI2	633332	3499.98	12.98	14.50	1.419	-	-	-0.19	0.232	0.329
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	ECI2	633332	3499.98	12.98	14.50	1.419	-	-	-0.19	0.255	0.362
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	ECI2	633332	3499.98	12.96	14.50	1.426	-	-	0.08	0.165	0.235
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	ECI2	633332	3499.98	12.96	14.50	1.426	-	-	0.1	0.195	0.278
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	ECI2	633332	3499.98	12.96	14.50	1.426	-	-	-0.08	0.241	0.344
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	ECI2	633332	3499.98	12.96	14.50	1.426	-	-	-0.09	0.261	0.372



FCC SAR Test Report

Report No. : FA612609

FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	ECI2	633332	3499.98	15.79	17.50	1.483	50.00	1.000	-0.09	0.224	0.332
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	ECI2	656000	3840	12.79	14.50	1.483	-	-	0.1	0.329	0.488
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	ECI2	656000	3840	12.79	14.50	1.483	-	-	0.16	0.394	0.584
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	ECI2	656000	3840	12.79	14.50	1.483	-	-	0.1	0.435	0.645
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	ECI2	656000	3840	12.79	14.50	1.483	-	-	0.06	0.494	0.732
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	ECI2	656000	3840	12.77	14.50	1.489	-	-	0.16	0.344	0.512
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	ECI2	656000	3840	12.77	14.50	1.489	-	-	0.04	0.414	0.617
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	ECI2	656000	3840	12.77	14.50	1.489	-	-	0.02	0.452	0.673
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	ECI2	656000	3840	12.77	14.50	1.489	-	-	0.1	0.526	0.783
FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Left Tilted	0mm	Ant 4	ECI2	650000 654648	3750 3819.72	13.26	14.50	1.330	-	-	-0.19	0.466	0.620
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	ECI2	656000	3840	15.78	17.50	1.486	50.00	1.000	0.1	0.482	0.716
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 4	ECI2	656000	3840	12.76	14.50	1.493	-	-	-0.18	0.330	0.493
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 4	ECI2	656000	3840	12.76	14.50	1.493	-	-	-0.18	0.405	0.605
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 4	ECI2	656000	3840	12.76	14.50	1.493	-	-	-0.18	0.426	0.636
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Left Tilted	0mm	Ant 4	ECI2	656000	3840	12.76	14.50	1.493	-	-	-0.18	0.510	0.761

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)
WLAN																
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 3	Full	39	2441	17.00	18.00	1.259	76.80	1.085	-0.19	0.051	0.070
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 3	Full	39	2441	17.00	18.00	1.259	76.80	1.085	0.02	0.042	0.057
31	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 3	Full	39	2441	17.00	18.00	1.259	76.80	1.085	0.03	0.125	0.171
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 3	Full	39	2441	17.00	18.00	1.259	76.80	1.085	0	0.070	0.096
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3+6	Standalone	11	2462	21.44	23.00	1.432	100.00	1.000	-0.12	0.369	0.528
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3+6	Standalone	11	2462	21.44	23.00	1.432	100.00	1.000	0.01	0.279	0.400
32	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3+6	Standalone	11	2462	21.44	23.00	1.432	100.00	1.000	-0.06	0.801	1.147
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3+6	Standalone	11	2462	21.44	23.00	1.432	100.00	1.000	-0.06	0.225	0.322
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3+6	Standalone	1	2412	21.21	22.50	1.346	100.00	1.000	-0.04	0.515	0.693
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3+6	Standalone	6	2437	21.18	22.50	1.355	100.00	1.000	0.16	0.725	0.983
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3+6	DBS	11	2462	19.93	21.50	1.435	100.00	1.000	0.14	0.263	0.377
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3+6	DBS	11	2462	19.93	21.50	1.435	100.00	1.000	-0.09	0.195	0.280
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3+6	DBS	11	2462	19.93	21.50	1.435	100.00	1.000	0.08	0.539	0.773
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3+6	DBS	11	2462	19.93	21.50	1.435	100.00	1.000	0.13	0.157	0.225
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3+6	Simultaneous	11	2462	16.45	18.00	1.429	100.00	1.000	0.15	0.115	0.164
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3+6	Simultaneous	11	2462	16.45	18.00	1.429	100.00	1.000	0.16	0.089	0.127
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3+6	Simultaneous	11	2462	16.45	18.00	1.429	100.00	1.000	-0.12	0.244	0.349
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3+6	Simultaneous	11	2462	16.45	18.00	1.429	100.00	1.000	0.03	0.069	0.099
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Standalone	58	5290	14.35	16.00	1.463	100.00	1.000	-0.03	0.501	0.733
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+6	Standalone	58	5290	14.35	16.00	1.463	100.00	1.000	-0.19	0.568	0.831
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	58	5290	14.35	16.00	1.463	100.00	1.000	-0.06	0.585	0.856
33	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+6	Standalone	58	5290	14.35	16.00	1.463	100.00	1.000	0.19	0.711	1.040
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	DBS	58	5290	13.32	15.00	1.471	100.00	1.000	0.06	0.401	0.590
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+6	DBS	58	5290	13.32	15.00	1.471	100.00	1.000	-0.14	0.441	0.649
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	DBS	58	5290	13.32	15.00	1.471	100.00	1.000	0.18	0.467	0.687
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+6	DBS	58	5290	13.32	15.00	1.471	100.00	1.000	-0.15	0.561	0.825
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Simultaneous	58	5290	9.41	11.00	1.443	100.00	1.000	0.19	0.161	0.232
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+6	Simultaneous	58	5290	9.41	11.00	1.443	100.00	1.000	0.06	0.178	0.257
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	58	5290	9.41	11.00	1.443	100.00	1.000	-0.13	0.182	0.263
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+6	Simultaneous	58	5290	9.41	11.00	1.443	100.00	1.000	-0.15	0.229	0.331
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Standalone	138	5690	12.51	14.30	1.509	100.00	1.000	0.14	0.270	0.407
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+6	Standalone	138	5690	12.51	14.30	1.509	100.00	1.000	-0.1	0.288	0.435
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	138	5690	12.51	14.30	1.509	100.00	1.000	-0.02	0.657	0.991
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+6	Standalone	138	5690	12.51	14.30	1.509	100.00	1.000	-0.17	0.441	0.666
34	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	106	5530	12.45	14.30	1.531	100.00	1.000	-0.05	0.695	1.064
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	122	5610	12.29	14.00	1.481	100.00	1.000	0.15	0.621	0.920



FCC SAR Test Report

Report No. : FA612609

	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	DBS	106	5530	11.99	13.50	1.416	100.00	1.000	-0.03	0.219	0.310
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+6	DBS	106	5530	11.99	13.50	1.416	100.00	1.000	0.06	0.230	0.326
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	DBS	106	5530	11.99	13.50	1.416	100.00	1.000	0.01	0.524	0.742
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+6	DBS	106	5530	11.99	13.50	1.416	100.00	1.000	-0.14	0.350	0.495
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Simultaneous	106	5530	8.51	10.30	1.510	100.00	1.000	0.13	0.099	0.150
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+6	Simultaneous	106	5530	8.51	10.30	1.510	100.00	1.000	0.07	0.101	0.153
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	106	5530	8.51	10.30	1.510	100.00	1.000	0.1	0.229	0.346
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+6	Simultaneous	106	5530	8.51	10.30	1.510	100.00	1.000	0.19	0.158	0.239
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Standalone	155	5775	15.08	17.00	1.556	100.00	1.000	-0.13	0.422	0.657
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+6	Standalone	155	5775	15.08	17.00	1.556	100.00	1.000	-0.07	0.455	0.708
35	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	155	5775	15.08	17.00	1.556	100.00	1.000	-0.08	0.693	1.078
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+6	Standalone	155	5775	15.08	17.00	1.556	100.00	1.000	-0.14	0.657	1.022
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	DBS	155	5775	13.57	15.50	1.561	100.00	1.000	0	0.293	0.457
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+6	DBS	155	5775	13.57	15.50	1.561	100.00	1.000	-0.06	0.318	0.496
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	DBS	155	5775	13.57	15.50	1.561	100.00	1.000	-0.15	0.492	0.768
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+6	DBS	155	5775	13.57	15.50	1.561	100.00	1.000	0.03	0.474	0.740
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+6	Simultaneous	155	5775	10.12	12.00	1.543	100.00	1.000	-0.05	0.129	0.199
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+6	Simultaneous	155	5775	10.12	12.00	1.543	100.00	1.000	-0.13	0.145	0.224
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	155	5775	10.12	12.00	1.543	100.00	1.000	0.05	0.217	0.335
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+6	Simultaneous	155	5775	10.12	12.00	1.543	100.00	1.000	0.18	0.212	0.327

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)	Measured APD (W/m^2)
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+6	Standalone	167	6785	15.35	16.50	1.303	100.00	1.000	0.15	0.140	0.182	0.826
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+6	Standalone	167	6785	15.35	16.50	1.303	100.00	1.000	-0.18	0.129	0.168	0.888
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	167	6785	15.35	16.50	1.303	100.00	1.000	0.19	0.697	0.908	4.98
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+6	Standalone	167	6785	15.35	16.50	1.303	100.00	1.000	0.03	0.295	0.384	1.86
36	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	7	5985	14.42	15.50	1.283	100.00	1.000	-0.1	0.845	1.084	5.78
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	87	6385	14.83	16.00	1.310	100.00	1.000	0.14	0.585	0.767	4.25
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	119	6545	14.45	16.00	1.428	100.00	1.000	-0.01	0.453	0.647	3.27
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Standalone	199	6945	15.05	16.50	1.395	100.00	1.000	0.19	0.492	0.686	1.29
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+6	DBS	167	6785	12.90	14.00	1.288	100.00	1.000	0.05	0.069	0.089	0.41
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+6	DBS	167	6785	12.90	14.00	1.288	100.00	1.000	-0.16	0.066	0.085	0.436
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	DBS	167	6785	12.90	14.00	1.288	100.00	1.000	0.08	0.351	0.452	2.45
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+6	DBS	167	6785	12.90	14.00	1.288	100.00	1.000	-0.13	0.148	0.191	0.928
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	DBS	7	5985	12.88	14.00	1.294	100.00	1.000	-0.15	0.608	0.787	4.04
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	DBS	87	6385	12.76	14.00	1.330	100.00	1.000	0.14	0.374	0.498	2.7
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	DBS	103	6465	12.86	14.00	1.300	100.00	1.000	-0.01	0.315	0.410	2.27
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	DBS	199	6945	12.52	14.00	1.406	100.00	1.000	0.19	0.272	0.382	0.732
	WLAN6GHz	802.11ax-HE80 MCS0	Right Cheek	0mm	Ant 4+6	Simultaneous	167	6785	9.47	10.50	1.268	100.00	1.000	0.05	0.031	0.039	0.18
	WLAN6GHz	802.11ax-HE80 MCS0	Right Tilted	0mm	Ant 4+6	Simultaneous	167	6785	9.47	10.50	1.268	100.00	1.000	0.16	0.029	0.037	0.199
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	167	6785	9.47	10.50	1.268	100.00	1.000	-0.04	0.154	0.195	1.11
	WLAN6GHz	802.11ax-HE80 MCS0	Left Tilted	0mm	Ant 4+6	Simultaneous	167	6785	9.47	10.50	1.268	100.00	1.000	0.19	0.065	0.082	0.408
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	7	5985	9.38	10.50	1.294	100.00	1.000	0.05	0.260	0.336	1.78
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	87	6385	9.29	10.50	1.321	100.00	1.000	-0.13	0.167	0.221	1.19
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	103	6465	9.40	10.50	1.288	100.00	1.000	0.13	0.141	0.182	1.01
	WLAN6GHz	802.11ax-HE80 MCS0	Left Cheek	0mm	Ant 4+6	Simultaneous	199	6945	9.07	10.50	1.390	100.00	1.000	-0.07	0.119	0.165	0.32



16.2 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																				
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	ECI7	133297	680.5	22.55	24.00	1.396	-	-	-0.14	0.366	0.511
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	ECI7	133297	680.5	22.55	24.00	1.396	-	-	-0.02	0.673	0.940
37	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI7	133297	680.5	22.55	24.00	1.396	-	-	-0.05	0.754	1.053
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI7	133297	680.5	22.55	24.00	1.396	-	-	0.14	0.305	0.426
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	ECI7	133297	680.5	21.62	23.00	1.374	-	-	-0.02	0.280	0.385
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	ECI7	133297	680.5	21.62	23.00	1.374	-	-	0.09	0.631	0.867
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI7	133297	680.5	21.62	23.00	1.374	-	-	0.18	0.656	0.901
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI7	133297	680.5	21.62	23.00	1.374	-	-	-0.06	0.229	0.315
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 0	ECI7	133297	680.5	21.55	23.00	1.396	-	-	-0.04	0.524	0.732
	LTE Band 71	20M	QPSK	100	0	-	Left Side	5mm	Ant 0	ECI7	133297	680.5	21.55	23.00	1.396	-	-	-0.03	0.579	0.808
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI7	133297	680.5	20.68	22.00	1.355	-	-	0.09	0.132	0.179
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI7	133297	680.5	20.68	22.00	1.355	-	-	-0.02	0.383	0.519
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI7	133297	680.5	20.68	22.00	1.355	-	-	0.07	0.096	0.130
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI7	133297	680.5	20.68	22.00	1.355	-	-	0.19	0.052	0.070
	LTE Band 71	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	133297	680.5	20.68	22.00	1.355	-	-	0.06	0.182	0.247
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI7	133297	680.5	20.61	22.00	1.377	-	-	-0.11	0.115	0.158
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI7	133297	680.5	20.61	22.00	1.377	-	-	-0.08	0.376	0.518
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI7	133297	680.5	20.61	22.00	1.377	-	-	0.13	0.082	0.113
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI7	133297	680.5	20.61	22.00	1.377	-	-	-0.14	0.036	0.050
	LTE Band 71	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	ECI7	133297	680.5	20.61	22.00	1.377	-	-	-0.14	0.162	0.223
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI7	23095	707.5	22.50	24.00	1.413	-	-	0.01	0.487	0.688
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI7	23095	707.5	22.50	24.00	1.413	-	-	0.13	0.854	1.206
38	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI7	23095	707.5	22.50	24.00	1.413	-	-	-0.16	0.905	1.278
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI7	23095	707.5	22.50	24.00	1.413	-	-	-0.15	0.327	0.462
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI7	23095	707.5	21.42	23.00	1.439	-	-	-0.17	0.480	0.691
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI7	23095	707.5	21.42	23.00	1.439	-	-	0.1	0.706	1.016
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI7	23095	707.5	21.42	23.00	1.439	-	-	0.04	0.784	1.128
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI7	23095	707.5	21.42	23.00	1.439	-	-	-0.19	0.358	0.515
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI7	23095	707.5	21.40	23.00	1.445	-	-	-0.14	0.672	0.971
	LTE Band 12	10M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI7	23095	707.5	21.40	23.00	1.445	-	-	-0.17	0.788	1.139
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	ECI7	23095	707.5	19.94	21.50	1.432	-	-	0.02	0.121	0.173
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	ECI7	23095	707.5	19.94	21.50	1.432	-	-	0.12	0.353	0.506
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI7	23095	707.5	19.94	21.50	1.432	-	-	0.14	0.098	0.140
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI7	23095	707.5	19.94	21.50	1.432	-	-	0.13	0.035	0.050
	LTE Band 12	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	23095	707.5	19.94	21.50	1.432	-	-	0.11	0.203	0.291
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	ECI7	23095	707.5	19.91	21.50	1.442	-	-	-0.02	0.093	0.134
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	ECI7	23095	707.5	19.91	21.50	1.442	-	-	0.08	0.331	0.477
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	ECI7	23095	707.5	19.91	21.50	1.442	-	-	0.04	0.071	0.102
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	ECI7	23095	707.5	19.91	21.50	1.442	-	-	0.07	0.029	0.042
	LTE Band 12	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	ECI7	23095	707.5	19.91	21.50	1.442	-	-	-0.15	0.150	0.216
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI7	23230	782	22.44	24.00	1.432	-	-	-0.07	0.504	0.722
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI7	23230	782	22.44	24.00	1.432	-	-	-0.13	0.742	1.063
39	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI7	23230	782	22.44	24.00	1.432	-	-	-0.08	0.875	1.253
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI7	23230	782	22.44	24.00	1.432	-	-	0.05	0.303	0.434
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI7	23230	782	21.38	23.00	1.452	-	-	-0.1	0.411	0.597
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI7	23230	782	21.38	23.00	1.452	-	-	0.1	0.563	0.818
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI7	23230	782	21.38	23.00	1.452	-	-	-0.09	0.669	0.971
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI7	23230	782	21.38	23.00	1.452	-	-	-0.05	0.245	0.356
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI7	23230	782	21.33	23.00	1.469	-	-	0.05	0.584	0.858



FCC SAR Test Report

Report No. : FA612609

	LTE Band 13	10M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI7	23230	782	21.33	23.00	1.469	-	-	0.06	0.702	1.031
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	ECI7	23230	782	19.32	21.00	1.472	-	-	0.01	0.126	0.186
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	ECI7	23230	782	19.32	21.00	1.472	-	-	-0.14	0.371	0.546
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI7	23230	782	19.32	21.00	1.472	-	-	0.08	0.052	0.077
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI7	23230	782	19.32	21.00	1.472	-	-	0.05	0.056	0.082
	LTE Band 13	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	23230	782	19.32	21.00	1.472	-	-	0.13	0.152	0.224
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	ECI7	23230	782	19.30	21.00	1.479	-	-	0.04	0.100	0.148
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	ECI7	23230	782	19.30	21.00	1.479	-	-	-0.18	0.325	0.481
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	ECI7	23230	782	19.30	21.00	1.479	-	-	0.11	0.039	0.058
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	ECI7	23230	782	19.30	21.00	1.479	-	-	0.07	0.044	0.065
	LTE Band 13	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	ECI7	23230	782	19.30	21.00	1.479	-	-	-0.09	0.117	0.173
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI7	23330	793	22.22	24.00	1.507	-	-	0	0.474	0.714
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI7	23330	793	22.22	24.00	1.507	-	-	-0.04	0.798	1.202
40	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI7	23330	793	22.22	24.00	1.507	-	-	0.08	0.843	1.270
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI7	23330	793	22.22	24.00	1.507	-	-	-0.12	0.287	0.432
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI7	23330	793	21.14	23.00	1.535	-	-	0.04	0.478	0.734
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI7	23330	793	21.14	23.00	1.535	-	-	-0.19	0.698	1.071
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI7	23330	793	21.14	23.00	1.535	-	-	0.08	0.738	1.133
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI7	23330	793	21.14	23.00	1.535	-	-	0.02	0.262	0.402
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI7	23330	793	21.04	23.00	1.570	-	-	0.04	0.657	1.032
	LTE Band 14	10M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI7	23330	793	21.04	23.00	1.570	-	-	0.09	0.692	1.087
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 1	ECI7	23330	793	17.54	19.00	1.400	-	-	0.19	0.126	0.176
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	ECI7	23330	793	17.54	19.00	1.400	-	-	-0.08	0.412	0.577
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI7	23330	793	17.54	19.00	1.400	-	-	0.05	0.052	0.073
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI7	23330	793	17.54	19.00	1.400	-	-	-0.09	0.055	0.077
	LTE Band 14	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	23330	793	17.54	19.00	1.400	-	-	-0.09	0.154	0.216
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 1	ECI7	23330	793	17.43	19.00	1.435	-	-	0.07	0.100	0.144
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 1	ECI7	23330	793	17.43	19.00	1.435	-	-	-0.03	0.322	0.462
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	ECI7	23330	793	17.43	19.00	1.435	-	-	0.18	0.039	0.056
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	ECI7	23330	793	17.43	19.00	1.435	-	-	-0.03	0.044	0.063
	LTE Band 14	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	ECI7	23330	793	17.43	19.00	1.435	-	-	-0.03	0.119	0.171
	FR1 n71	35M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	ECI7	136100	680.5	22.32	24.00	1.472	-	-	-0.05	0.399	0.587
	FR1 n71	35M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	ECI7	136100	680.5	22.32	24.00	1.472	-	-	0.07	0.556	0.819
41	FR1 n71	35M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	ECI7	136100	680.5	22.32	24.00	1.472	-	-	-0.14	0.696	1.025
	FR1 n71	35M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	ECI7	136100	680.5	22.32	24.00	1.472	-	-	-0.14	0.289	0.425
	FR1 n71	35M	QPSK	90	45	DFT-15	Front	5mm	Ant 0	ECI7	136100	680.5	22.21	24.00	1.510	-	-	0.07	0.377	0.569
	FR1 n71	35M	QPSK	90	45	DFT-15	Back	5mm	Ant 0	ECI7	136100	680.5	22.21	24.00	1.510	-	-	0.06	0.540	0.815
	FR1 n71	35M	QPSK	90	45	DFT-15	Left Side	5mm	Ant 0	ECI7	136100	680.5	22.21	24.00	1.510	-	-	0.17	0.657	0.992
	FR1 n71	35M	QPSK	90	45	DFT-15	Bottom Side	5mm	Ant 0	ECI7	136100	680.5	22.21	24.00	1.510	-	-	0.1	0.272	0.411
	FR1 n71	35M	QPSK	180	0	DFT-15	Back	5mm	Ant 0	ECI7	136100	680.5	21.06	23.00	1.563	-	-	0.13	0.425	0.664
	FR1 n71	35M	QPSK	180	0	DFT-15	Left Side	5mm	Ant 0	ECI7	136100	680.5	21.06	23.00	1.563	-	-	0.19	0.528	0.825
	FR1 n71	35M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	ECI7	136100	680.5	20.82	22.50	1.472	-	-	0.19	0.122	0.180
	FR1 n71	35M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	ECI7	136100	680.5	20.82	22.50	1.472	-	-	0	0.358	0.527
	FR1 n71	35M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	ECI7	136100	680.5	20.82	22.50	1.472	-	-	0.05	0.096	0.141
	FR1 n71	35M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	ECI7	136100	680.5	20.82	22.50	1.472	-	-	-0.07	0.051	0.075
	FR1 n71	35M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	ECI7	136100	680.5	20.82	22.50	1.472	-	-	-0.01	0.137	0.202
	FR1 n71	35M	QPSK	90	45	DFT-15	Front	5mm	Ant 1	ECI7	136100	680.5	20.77	22.50	1.489	-	-	-0.17	0.107	0.159
	FR1 n71	35M	QPSK	90	45	DFT-15	Back	5mm	Ant 1	ECI7	136100	680.5	20.77	22.50	1.489	-	-	0.12	0.330	0.491
	FR1 n71	35M	QPSK	90	45	DFT-15	Left Side	5mm	Ant 1	ECI7	136100	680.5	20.77	22.50	1.489	-	-	0.07	0.090	0.134
	FR1 n71	35M	QPSK	90	45	DFT-15	Right Side	5mm	Ant 1	ECI7	136100	680.5	20.77	22.50	1.489	-	-	-0.07	0.033	0.049
	FR1 n71	35M	QPSK	90	45	DFT-15	Top Side	5mm	Ant 1	ECI7	136100	680.5	20.77	22.50	1.489	-	-	-0.04	0.129	0.192
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	ECI7	141500	707.5	22.52	24.00	1.406	-	-	-0.12	0.389	0.547
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	ECI7	141500	707.5	22.52	24.00	1.406	-	-	0.16	0.681	0.958
42	FR1 n12	15M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	ECI7	141500	707.5	22.52	24.00	1.406	-	-	-0.14	0.798	1.122
	FR1 n12	15M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	ECI7	141500	707.5	22.52	24.00	1.406	-	-	-0.09	0.311	0.437
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	ECI7	141500	707.5	22.38	24.00	1.452	-	-	-0.13	0.356	0.517



FCC SAR Test Report

Report No. : FA612609

	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	ECI7	141500	707.5	22.38	24.00	1.452	-	-	0.14	0.647	0.940
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	5mm	Ant 0	ECI7	141500	707.5	22.38	24.00	1.452	-	-	-0.17	0.735	1.067
	FR1 n12	15M	QPSK	36	22	DFT-15	Bottom Side	5mm	Ant 0	ECI7	141500	707.5	22.38	24.00	1.452	-	-	-0.06	0.296	0.430
	FR1 n12	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 0	ECI7	141500	707.5	21.43	23.00	1.435	-	-	-0.06	0.517	0.742
	FR1 n12	15M	QPSK	75	0	DFT-15	Left Side	5mm	Ant 0	ECI7	141500	707.5	21.43	23.00	1.435	-	-	-0.15	0.608	0.873
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	ECI7	141500	707.5	20.83	22.50	1.469	-	-	0.12	0.122	0.179
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	ECI7	141500	707.5	20.83	22.50	1.469	-	-	-0.01	0.350	0.514
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	ECI7	141500	707.5	20.83	22.50	1.469	-	-	0.19	0.100	0.147
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	ECI7	141500	707.5	20.83	22.50	1.469	-	-	-0.05	0.038	0.056
	FR1 n12	15M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	ECI7	141500	707.5	20.83	22.50	1.469	-	-	-0.08	0.187	0.275
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	ECI7	141500	707.5	20.79	22.50	1.483	-	-	0.09	0.127	0.188
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	ECI7	141500	707.5	20.79	22.50	1.483	-	-	0.08	0.371	0.550
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	5mm	Ant 1	ECI7	141500	707.5	20.79	22.50	1.483	-	-	-0.03	0.105	0.156
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Side	5mm	Ant 1	ECI7	141500	707.5	20.79	22.50	1.483	-	-	-0.14	0.041	0.061
	FR1 n12	15M	QPSK	36	22	DFT-15	Top Side	5mm	Ant 1	ECI7	141500	707.5	20.79	22.50	1.483	-	-	0.1	0.193	0.286
	FR1 n13	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	ECI7	156400	782	22.48	24.00	1.419	-	-	0.09	0.398	0.565
	FR1 n13	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	ECI7	156400	782	22.48	24.00	1.419	-	-	-0.12	0.686	0.973
	FR1 n13	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	ECI7	156400	782	22.48	24.00	1.419	-	-	0	0.698	0.991
	FR1 n13	10M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	ECI7	156400	782	22.48	24.00	1.419	-	-	-0.13	0.249	0.353
	FR1 n13	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 0	ECI7	156400	782	22.15	24.00	1.531	-	-	0.03	0.375	0.574
	FR1 n13	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 0	ECI7	156400	782	22.15	24.00	1.531	-	-	0.07	0.630	0.965
43	FR1 n13	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 0	ECI7	156400	782	22.15	24.00	1.531	-	-	0.01	0.703	1.076
	FR1 n13	10M	QPSK	25	14	DFT-15	Bottom Side	5mm	Ant 0	ECI7	156400	782	22.15	24.00	1.531	-	-	-0.08	0.248	0.380
	FR1 n13	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 0	ECI7	156400	782	21.17	23.00	1.524	-	-	0.14	0.498	0.759
	FR1 n13	10M	QPSK	50	0	DFT-15	Left Side	5mm	Ant 0	ECI7	156400	782	21.17	23.00	1.524	-	-	-0.07	0.552	0.841
	FR1 n13	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	ECI7	156400	782	19.44	21.00	1.432	-	-	-0.09	0.175	0.251
	FR1 n13	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	ECI7	156400	782	19.44	21.00	1.432	-	-	0.15	0.397	0.569
	FR1 n13	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	ECI7	156400	782	19.44	21.00	1.432	-	-	-0.05	0.083	0.119
	FR1 n13	10M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	ECI7	156400	782	19.44	21.00	1.432	-	-	-0.15	0.074	0.106
	FR1 n13	10M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	ECI7	156400	782	19.44	21.00	1.432	-	-	0.17	0.167	0.239
	FR1 n13	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	ECI7	156400	782	19.39	21.00	1.449	-	-	-0.05	0.182	0.264
	FR1 n13	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	ECI7	156400	782	19.39	21.00	1.449	-	-	0.12	0.409	0.593
	FR1 n13	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 1	ECI7	156400	782	19.39	21.00	1.449	-	-	-0.17	0.088	0.127
	FR1 n13	10M	QPSK	25	14	DFT-15	Right Side	5mm	Ant 1	ECI7	156400	782	19.39	21.00	1.449	-	-	-0.13	0.077	0.112
	FR1 n13	10M	QPSK	25	14	DFT-15	Top Side	5mm	Ant 1	ECI7	156400	782	19.39	21.00	1.449	-	-	0.14	0.178	0.258
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	ECI7	158600	793	22.32	24.00	1.472	-	-	-0.18	0.422	0.621
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	ECI7	158600	793	22.32	24.00	1.472	-	-	-0.03	0.707	1.041
44	FR1 n14	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	ECI7	158600	793	22.32	24.00	1.472	-	-	0.09	0.827	1.218
	FR1 n14	10M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	ECI7	158600	793	22.32	24.00	1.472	-	-	0.05	0.283	0.417
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 0	ECI7	158600	793	22.14	24.00	1.535	-	-	0.05	0.342	0.525
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 0	ECI7	158600	793	22.14	24.00	1.535	-	-	-0.1	0.663	1.017
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 0	ECI7	158600	793	22.14	24.00	1.535	-	-	-0.16	0.702	1.077
	FR1 n14	10M	QPSK	25	14	DFT-15	Bottom Side	5mm	Ant 0	ECI7	158600	793	22.14	24.00	1.535	-	-	-0.19	0.263	0.404
	FR1 n14	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 0	ECI7	158600	793	21.15	23.00	1.531	-	-	0.16	0.563	0.862
	FR1 n14	10M	QPSK	50	0	DFT-15	Left Side	5mm	Ant 0	ECI7	158600	793	21.15	23.00	1.531	-	-	-0.03	0.658	1.007
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	ECI7	158600	793	19.36	21.00	1.459	-	-	0.17	0.139	0.203
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	ECI7	158600	793	19.36	21.00	1.459	-	-	0.08	0.351	0.512
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	ECI7	158600	793	19.36	21.00	1.459	-	-	-0.11	0.051	0.074
	FR1 n14	10M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	ECI7	158600	793	19.36	21.00	1.459	-	-	0.11	0.059	0.086
	FR1 n14	10M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	ECI7	158600	793	19.36	21.00	1.459	-	-	0.08	0.159	0.232
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	ECI7	158600	793	19.28	21.00	1.486	-	-	-0.12	0.143	0.212
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	ECI7	158600	793	19.28	21.00	1.486	-	-	0.15	0.371	0.551
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 1	ECI7	158600	793	19.28	21.00	1.486	-	-	-0.19	0.053	0.079
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Side	5mm	Ant 1	ECI7	158600	793	19.28	21.00	1.486	-	-	-0.11	0.063	0.094
	FR1 n14	10M	QPSK	25	14	DFT-15	Top Side	5mm	Ant 1	ECI7	158600	793	19.28	21.00	1.486	-	-	0.11	0.163	0.242
835MHz																				



FCC SAR Test Report

Report No. : FA612609

	GSM850	-	-	-	-	GPRS 4TX slot	Front	5mm	Ant 0	ECI7	189	836.4	26.15	28.00	1.531	-	-	0.14	0.363	0.556
	GSM850	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 0	ECI7	189	836.4	26.15	28.00	1.531	-	-	0.13	0.680	1.041
	GSM850	-	-	-	-	GPRS 4TX slot	Left Side	5mm	Ant 0	ECI7	189	836.4	26.15	28.00	1.531	-	-	0.09	0.566	0.867
	GSM850	-	-	-	-	GPRS 4TX slot	Bottom Side	5mm	Ant 0	ECI7	189	836.4	26.15	28.00	1.531	-	-	0.07	0.240	0.367
	GSM850	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 0	ECI7	128	824.2	26.14	28.00	1.535	-	-	-0.02	0.730	1.120
45	GSM850	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 0	ECI7	251	848.8	26.01	28.00	1.581	-	-	-0.11	0.772	1.221
	GSM850	-	-	-	-	GPRS 4TX slot	Left Side	5mm	Ant 0	ECI7	128	824.2	26.14	28.00	1.535	-	-	0.11	0.611	0.938
	GSM850	-	-	-	-	GPRS 4TX slot	Left Side	5mm	Ant 0	ECI7	251	848.8	26.01	28.00	1.581	-	-	0.08	0.632	0.999
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI7	4182	836.4	22.53	24.00	1.403	-	-	-0.08	0.348	0.488
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI7	4182	836.4	22.53	24.00	1.403	-	-	0.08	0.575	0.807
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	ECI7	4182	836.4	22.53	24.00	1.403	-	-	-0.16	0.568	0.797
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI7	4182	836.4	22.53	24.00	1.403	-	-	-0.16	0.216	0.303
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI7	4132	826.4	22.47	24.00	1.422	-	-	0.13	0.708	1.007
46	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI7	4233	846.6	22.45	24.00	1.429	-	-	-0.1	0.724	1.035
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	ECI7	26865	831.5	22.31	24.00	1.476	-	-	0.14	0.490	0.723
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI7	26865	831.5	22.31	24.00	1.476	-	-	-0.15	0.734	1.083
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI7	26865	831.5	22.31	24.00	1.476	-	-	-0.12	0.706	1.042
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI7	26865	831.5	22.31	24.00	1.476	-	-	-0.01	0.321	0.474
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI7	26765	821.5	22.08	24.00	1.556	-	-	0.03	0.720	1.120
47	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI7	26965	841.5	22.30	24.00	1.479	-	-	-0.19	0.851	1.259
	LTE Band 5B	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI7	20450 829 20549 838.9	829 838.9	22.30	24.00	1.479	-	-	0.05	0.794	1.174
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI7	26765	821.5	22.08	24.00	1.556	-	-	-0.17	0.683	1.063
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI7	26965	841.5	22.30	24.00	1.479	-	-	0.08	0.745	1.102
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	ECI7	26865	831.5	21.24	23.00	1.500	-	-	0.13	0.391	0.586
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	ECI7	26865	831.5	21.24	23.00	1.500	-	-	0.06	0.576	0.864
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	ECI7	26865	831.5	21.24	23.00	1.500	-	-	0.05	0.566	0.849
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 0	ECI7	26865	831.5	21.24	23.00	1.500	-	-	-0.17	0.247	0.370
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	ECI7	26765	821.5	21.22	23.00	1.507	-	-	-0.09	0.704	1.061
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	ECI7	26965	841.5	21.08	23.00	1.556	-	-	-0.16	0.678	1.055
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	ECI7	26765	821.5	21.22	23.00	1.507	-	-	0.03	0.684	1.031
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	ECI7	26965	841.5	21.08	23.00	1.556	-	-	0.19	0.632	0.983
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	ECI7	26865	831.5	21.15	23.00	1.531	-	-	-0.12	0.638	0.977
	LTE Band 26	15M	QPSK	75	0	-	Left Side	5mm	Ant 0	ECI7	26865	831.5	21.15	23.00	1.531	-	-	0.17	0.598	0.916
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	ECI7	26865	831.5	17.95	19.50	1.429	-	-	0.02	0.123	0.176
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	ECI7	26865	831.5	17.95	19.50	1.429	-	-	0.01	0.367	0.524
	LTE Band 5B	10M	QPSK	1	0	-	Back	5mm	Ant 1	ECI7	20450 829 20549 838.9	829 838.9	17.91	19.50	1.442	-	-	0.03	0.302	0.436
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI7	26865	831.5	17.95	19.50	1.429	-	-	-0.17	0.045	0.064
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI7	26865	831.5	17.95	19.50	1.429	-	-	0.08	0.050	0.071
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	26865	831.5	17.95	19.50	1.429	-	-	0.16	0.175	0.250
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	ECI7	26865	831.5	17.91	19.50	1.442	-	-	-0.15	0.093	0.134
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	ECI7	26865	831.5	17.91	19.50	1.442	-	-	0.03	0.346	0.499
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 1	ECI7	26865	831.5	17.91	19.50	1.442	-	-	0.19	0.043	0.062
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 1	ECI7	26865	831.5	17.91	19.50	1.442	-	-	-0.07	0.038	0.055
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant 1	ECI7	26865	831.5	17.91	19.50	1.442	-	-	-0.11	0.176	0.254
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	ECI7	166300	831.5	22.37	24.00	1.455	-	-	-0.13	0.403	0.587
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	ECI7	166300	831.5	22.37	24.00	1.455	-	-	0.16	0.647	0.942
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	ECI7	166300	831.5	22.37	24.00	1.455	-	-	-0.06	0.586	0.853
	FR1 n26	20M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	ECI7	166300	831.5	22.37	24.00	1.455	-	-	-0.01	0.244	0.355
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	ECI7	166300	831.5	22.15	24.00	1.531	-	-	-0.09	0.421	0.645
48	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	ECI7	166300	831.5	22.15	24.00	1.531	-	-	-0.08	0.687	1.052
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Side	5mm	Ant 0	ECI7	166300	831.5	22.15	24.00	1.531	-	-	0.07	0.590	0.903



FCC SAR Test Report

Report No. : FA612609

	FR1 n26	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 0	ECI7	166300	831.5	22.15	24.00	1.531	-	-	0.16	0.249	0.381
	FR1 n26	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 0	ECI7	166300	831.5	21.16	23.00	1.528	-	-	-0.11	0.520	0.794
	FR1 n26	20M	QPSK	100	0	DFT-15	Left Side	5mm	Ant 0	ECI7	166300	831.5	21.16	23.00	1.528	-	-	0.19	0.481	0.735
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	ECI7	166300	831.5	19.13	20.50	1.371	-	-	0.07	0.141	0.193
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	ECI7	166300	831.5	19.13	20.50	1.371	-	-	-0.05	0.444	0.609
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	ECI7	166300	831.5	19.13	20.50	1.371	-	-	0.17	0.055	0.075
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	ECI7	166300	831.5	19.13	20.50	1.371	-	-	-0.16	0.057	0.078
	FR1 n26	20M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	ECI7	166300	831.5	19.13	20.50	1.371	-	-	-0.05	0.244	0.334
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	ECI7	166300	831.5	19.08	20.50	1.387	-	-	0.15	0.133	0.184
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	ECI7	166300	831.5	19.08	20.50	1.387	-	-	-0.16	0.429	0.595
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Side	5mm	Ant 1	ECI7	166300	831.5	19.08	20.50	1.387	-	-	-0.03	0.052	0.072
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Side	5mm	Ant 1	ECI7	166300	831.5	19.08	20.50	1.387	-	-	0.02	0.054	0.075
	FR1 n26	20M	QPSK	50	28	DFT-15	Top Side	5mm	Ant 1	ECI7	166300	831.5	19.08	20.50	1.387	-	-	0.12	0.235	0.326
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	ECI7	1413	1732.6	19.12	20.50	1.374	-	-	-0.04	0.516	0.709
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	ECI7	1413	1732.6	19.12	20.50	1.374	-	-	0.05	0.509	0.699
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 2	ECI7	1413	1732.6	19.12	20.50	1.374	-	-	-0.14	0.105	0.144
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 2	ECI7	1413	1732.6	19.12	20.50	1.374	-	-	-0.11	0.164	0.225
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	ECI7	1413	1732.6	19.12	20.50	1.374	-	-	0.19	0.869	1.194
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	ECI7	1312	1712.4	19.09	20.50	1.384	-	-	-0.18	0.835	1.155
49	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	ECI7	1513	1752.6	19.05	20.50	1.396	-	-	0.15	0.914	1.276
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	ECI7	132322	1745	18.39	19.50	1.291	-	-	0.06	0.465	0.600
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	ECI7	132322	1745	18.39	19.50	1.291	-	-	0.01	0.470	0.607
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	ECI7	132322	1745	18.39	19.50	1.291	-	-	0	0.089	0.115
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	ECI7	132322	1745	18.39	19.50	1.291	-	-	0.1	0.152	0.196
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	132322	1745	18.39	19.50	1.291	-	-	-0.16	0.736	0.950
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	132072	1720	18.31	19.50	1.315	-	-	-0.15	0.779	1.025
50	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	132572	1770	18.26	19.50	1.330	-	-	-0.15	0.810	1.078
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	ECI7	132322	1745	18.31	19.50	1.315	-	-	0.16	0.407	0.535
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	ECI7	132322	1745	18.31	19.50	1.315	-	-	0.08	0.434	0.571
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	ECI7	132322	1745	18.31	19.50	1.315	-	-	0.04	0.084	0.110
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	ECI7	132322	1745	18.31	19.50	1.315	-	-	0.06	0.132	0.174
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	ECI7	132322	1745	18.31	19.50	1.315	-	-	0.07	0.675	0.888
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	ECI7	132072	1720	18.25	19.50	1.334	-	-	0.09	0.713	0.951
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	ECI7	132572	1770	18.24	19.50	1.337	-	-	-0.02	0.766	1.024
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 2	ECI7	132322	1745	18.23	19.50	1.340	-	-	-0.05	0.678	0.908
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 9	ECI7	132322	1745	15.89	17.00	1.291	-	-	-0.07	0.180	0.232
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 9	ECI7	132322	1745	15.89	17.00	1.291	-	-	-0.01	0.275	0.355
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	ECI7	132322	1745	15.89	17.00	1.291	-	-	0.02	0.415	0.536
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 9	ECI7	132322	1745	15.89	17.00	1.291	-	-	0.12	0.028	0.036
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 9	ECI7	132322	1745	15.84	17.00	1.306	-	-	-0.13	0.152	0.199
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 9	ECI7	132322	1745	15.84	17.00	1.306	-	-	-0.13	0.246	0.321
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 9	ECI7	132322	1745	15.84	17.00	1.306	-	-	0.04	0.377	0.492
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 9	ECI7	132322	1745	15.84	17.00	1.306	-	-	-0.17	0.021	0.027
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI7	132322	1745	15.11	16.50	1.377	-	-	0.04	0.205	0.282
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI7	132322	1745	15.11	16.50	1.377	-	-	0.03	0.310	0.427
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI7	132322	1745	15.11	16.50	1.377	-	-	0.16	0.053	0.073
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI7	132322	1745	15.11	16.50	1.377	-	-	-0.01	0.020	0.028
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	132322	1745	15.11	16.50	1.377	-	-	-0.09	0.389	0.536
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI7	132322	1745	15.08	16.50	1.387	-	-	0.08	0.190	0.263
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI7	132322	1745	15.08	16.50	1.387	-	-	0	0.300	0.416
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI7	132322	1745	15.08	16.50	1.387	-	-	-0.17	0.048	0.067
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI7	132322	1745	15.08	16.50	1.387	-	-	-0.09	0.016	0.022
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	ECI7	132322	1745	15.08	16.50	1.387	-	-	0.1	0.360	0.499



FCC SAR Test Report

Report No. : FA612609

	FR1 n66	45M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	ECI7	349000	1745	18.98	20.50	1.419	-	-	0.01	0.454	0.644
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	ECI7	349000	1745	18.98	20.50	1.419	-	-	0.13	0.528	0.749
	FR1 n66	45M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 2	ECI7	349000	1745	18.98	20.50	1.419	-	-	-0.04	0.060	0.085
	FR1 n66	45M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 2	ECI7	349000	1745	18.98	20.50	1.419	-	-	-0.07	0.153	0.217
51	FR1 n66	45M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 2	ECI7	349000	1745	18.98	20.50	1.419	-	-	-0.03	0.886	1.257
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	5mm	Ant 2	ECI7	349000	1745	18.91	20.50	1.442	-	-	-0.15	0.425	0.613
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	5mm	Ant 2	ECI7	349000	1745	18.91	20.50	1.442	-	-	0.17	0.501	0.722
	FR1 n66	45M	QPSK	120	60	DFT-15	Left Side	5mm	Ant 2	ECI7	349000	1745	18.91	20.50	1.442	-	-	0.19	0.057	0.082
	FR1 n66	45M	QPSK	120	60	DFT-15	Right Side	5mm	Ant 2	ECI7	349000	1745	18.91	20.50	1.442	-	-	-0.1	0.143	0.206
	FR1 n66	45M	QPSK	120	60	DFT-15	Bottom Side	5mm	Ant 2	ECI7	349000	1745	18.91	20.50	1.442	-	-	-0.03	0.835	1.204
	FR1 n66	45M	QPSK	240	0	DFT-15	Bottom Side	5mm	Ant 2	ECI7	349000	1745	18.90	20.50	1.445	-	-	-0.13	0.819	1.184
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	5mm	Ant 9	ECI7	349000	1745	16.06	17.50	1.393	-	-	-0.15	0.184	0.256
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	5mm	Ant 9	ECI7	349000	1745	16.06	17.50	1.393	-	-	-0.07	0.275	0.383
	FR1 n66	45M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 9	ECI7	349000	1745	16.06	17.50	1.393	-	-	-0.01	0.393	0.548
	FR1 n66	45M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 9	ECI7	349000	1745	16.06	17.50	1.393	-	-	-0.07	0.037	0.052
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	5mm	Ant 9	ECI7	349000	1745	15.98	17.50	1.419	-	-	-0.04	0.174	0.247
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	5mm	Ant 9	ECI7	349000	1745	15.98	17.50	1.419	-	-	-0.02	0.268	0.380
	FR1 n66	45M	QPSK	120	60	DFT-15	Left Side	5mm	Ant 9	ECI7	349000	1745	15.98	17.50	1.419	-	-	0.18	0.376	0.534
	FR1 n66	45M	QPSK	120	60	DFT-15	Top Side	5mm	Ant 9	ECI7	349000	1745	15.98	17.50	1.419	-	-	-0.07	0.035	0.050
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	ECI7	349000	1745	15.49	17.00	1.416	-	-	-0.18	0.222	0.314
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	ECI7	349000	1745	15.49	17.00	1.416	-	-	0.01	0.308	0.436
	FR1 n66	45M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	ECI7	349000	1745	15.49	17.00	1.416	-	-	0.12	0.053	0.075
	FR1 n66	45M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	ECI7	349000	1745	15.49	17.00	1.416	-	-	-0.12	0.019	0.027
	FR1 n66	45M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	ECI7	349000	1745	15.49	17.00	1.416	-	-	-0.01	0.415	0.588
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	5mm	Ant 1	ECI7	349000	1745	15.43	17.00	1.435	-	-	-0.05	0.217	0.312
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	5mm	Ant 1	ECI7	349000	1745	15.43	17.00	1.435	-	-	0.12	0.295	0.423
	FR1 n66	45M	QPSK	120	60	DFT-15	Left Side	5mm	Ant 1	ECI7	349000	1745	15.43	17.00	1.435	-	-	0.05	0.051	0.073
	FR1 n66	45M	QPSK	120	60	DFT-15	Right Side	5mm	Ant 1	ECI7	349000	1745	15.43	17.00	1.435	-	-	0	0.018	0.026
	FR1 n66	45M	QPSK	120	60	DFT-15	Top Side	5mm	Ant 1	ECI7	349000	1745	15.43	17.00	1.435	-	-	-0.08	0.404	0.580
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	ECI7	340500	1702.5	20.45	21.50	1.274	-	-	0.1	0.475	0.605
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	ECI7	340500	1702.5	20.45	21.50	1.274	-	-	-0.08	0.496	0.632
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 2	ECI7	340500	1702.5	20.45	21.50	1.274	-	-	-0.16	0.085	0.108
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 2	ECI7	340500	1702.5	20.45	21.50	1.274	-	-	0.01	0.153	0.195
52	FR1 n70	15M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 2	ECI7	340500	1702.5	20.45	21.50	1.274	-	-	0.14	0.868	1.105
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 2	ECI7	340500	1702.5	20.39	21.50	1.291	-	-	-0.02	0.454	0.586
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 2	ECI7	340500	1702.5	20.39	21.50	1.291	-	-	-0.12	0.485	0.626
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Side	5mm	Ant 2	ECI7	340500	1702.5	20.39	21.50	1.291	-	-	-0.09	0.082	0.106
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Side	5mm	Ant 2	ECI7	340500	1702.5	20.39	21.50	1.291	-	-	-0.17	0.147	0.190
	FR1 n70	15M	QPSK	36	22	DFT-15	Bottom Side	5mm	Ant 2	ECI7	340500	1702.5	20.39	21.50	1.291	-	-	0.02	0.821	1.060
	FR1 n70	15M	QPSK	75	0	DFT-15	Bottom Side	5mm	Ant 2	ECI7	340500	1702.5	20.34	21.50	1.306	-	-	0.13	0.793	1.036
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 9	ECI7	340500	1702.5	16.61	17.50	1.227	-	-	0.17	0.189	0.232
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 9	ECI7	340500	1702.5	16.61	17.50	1.227	-	-	-0.04	0.288	0.354
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 9	ECI7	340500	1702.5	16.61	17.50	1.227	-	-	0.17	0.422	0.518
	FR1 n70	15M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 9	ECI7	340500	1702.5	16.61	17.50	1.227	-	-	0.01	0.033	0.041
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 9	ECI7	340500	1702.5	16.54	17.50	1.247	-	-	-0.16	0.180	0.225
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 9	ECI7	340500	1702.5	16.54	17.50	1.247	-	-	0.03	0.277	0.346
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Side	5mm	Ant 9	ECI7	340500	1702.5	16.54	17.50	1.247	-	-	-0.02	0.388	0.484
	FR1 n70	15M	QPSK	36	22	DFT-15	Top Side	5mm	Ant 9	ECI7	340500	1702.5	16.54	17.50	1.247	-	-	-0.16	0.027	0.034
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	ECI7	340500	1702.5	16.02	17.00	1.253	-	-	0.19	0.266	0.333
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	ECI7	340500	1702.5	16.02	17.00	1.253	-	-	-0.16	0.369	0.462
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	ECI7	340500	1702.5	16.02	17.00	1.253	-	-	0.04	0.065	0.081
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	ECI7	340500	1702.5	16.02	17.00	1.253	-	-	-0.12	0.023	0.029
	FR1 n70	15M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	ECI7	340500	1702.5	16.02	17.00	1.253	-	-	0.08	0.400	0.501
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	ECI7	340500	1702.5	16.00	17.00	1.259	-	-	0.1	0.253	0.319
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	ECI7	340500	1702.5	16.00	17.00	1.259	-	-	-0.18	0.358	0.451
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Side	5mm	Ant 1	ECI7	340500	1702.5	16.00	17.00	1.259	-	-	-0.08	0.058	0.073



FCC SAR Test Report

Report No. : FA612609

	FR1 n70	15M	QPSK	36	22	DFT-15	Right Side	5mm	Ant 1	ECI7	340500	1702.5	16.00	17.00	1.259	-	-	-0.12	0.023	0.029
	FR1 n70	15M	QPSK	36	22	DFT-15	Top Side	5mm	Ant 1	ECI7	340500	1702.5	16.00	17.00	1.259	-	-	0.02	0.372	0.468
1900MHz																				
	GSM1900	-	-	-	-	GPRS 4TX slot	Front	5mm	Ant 2	ECI7	661	1880	22.66	23.50	1.213	-	-	-0.13	0.605	0.734
	GSM1900	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 2	ECI7	661	1880	22.66	23.50	1.213	-	-	0.06	0.513	0.622
	GSM1900	-	-	-	-	GPRS 4TX slot	Left Side	5mm	Ant 2	ECI7	661	1880	22.66	23.50	1.213	-	-	-0.09	0.146	0.177
	GSM1900	-	-	-	-	GPRS 4TX slot	Right Side	5mm	Ant 2	ECI7	661	1880	22.66	23.50	1.213	-	-	-0.08	0.212	0.257
	GSM1900	-	-	-	-	GPRS 4TX slot	Bottom Side	5mm	Ant 2	ECI7	661	1880	22.66	23.50	1.213	-	-	0.14	0.908	1.102
	GSM1900	-	-	-	-	GPRS 4TX slot	Bottom Side	5mm	Ant 2	ECI7	512	1850.2	22.60	23.50	1.230	-	-	0.14	0.788	0.969
53	GSM1900	-	-	-	-	GPRS 4TX slot	Bottom Side	5mm	Ant 2	ECI7	810	1909.8	22.53	23.50	1.250	-	-	-0.02	0.927	1.159
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	ECI7	9400	1880	19.18	20.50	1.355	-	-	0.05	0.554	0.751
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	ECI7	9400	1880	19.18	20.50	1.355	-	-	0.1	0.539	0.730
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 2	ECI7	9400	1880	19.18	20.50	1.355	-	-	-0.06	0.124	0.168
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 2	ECI7	9400	1880	19.18	20.50	1.355	-	-	-0.13	0.200	0.271
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	ECI7	9400	1880	19.18	20.50	1.355	-	-	0.1	0.839	1.137
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	ECI7	9262	1852.4	19.14	20.50	1.368	-	-	-0.16	0.800	1.094
54	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	ECI7	9538	1907.6	19.15	20.50	1.365	-	-	0.02	0.927	1.265
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	ECI7	26340	1880	18.53	20.00	1.403	-	-	0.11	0.509	0.714
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	ECI7	26340	1880	18.53	20.00	1.403	-	-	0.08	0.489	0.686
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	ECI7	26340	1880	18.53	20.00	1.403	-	-	-0.1	0.096	0.135
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	ECI7	26340	1880	18.53	20.00	1.403	-	-	-0.11	0.171	0.240
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	26340	1880	18.53	20.00	1.403	-	-	-0.1	0.758	1.063
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	26140	1860	18.33	20.00	1.469	-	-	0.17	0.715	1.050
55	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	26590	1905	18.35	20.00	1.462	-	-	-0.06	0.751	1.098
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 2	ECI7	26340	1880	18.50	20.00	1.413	-	-	0.09	0.494	0.698
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	ECI7	26340	1880	18.50	20.00	1.413	-	-	-0.12	0.472	0.667
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	ECI7	26340	1880	18.50	20.00	1.413	-	-	-0.12	0.092	0.130
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	ECI7	26340	1880	18.50	20.00	1.413	-	-	-0.02	0.181	0.256
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	ECI7	26340	1880	18.50	20.00	1.413	-	-	-0.03	0.765	1.081
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	ECI7	26140	1860	18.26	20.00	1.493	-	-	0.06	0.735	1.097
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	ECI7	26590	1905	18.27	20.00	1.489	-	-	0.08	0.731	1.089
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 2	ECI7	26340	1880	18.41	20.00	1.442	-	-	-0.13	0.741	1.069
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 9	ECI7	26340	1880	14.68	16.00	1.355	-	-	-0.05	0.183	0.248
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 9	ECI7	26340	1880	14.68	16.00	1.355	-	-	-0.03	0.295	0.400
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	ECI7	26340	1880	14.68	16.00	1.355	-	-	-0.18	0.438	0.594
	LTE Band 25	20M	QPSK	1	0	-	Top Side	5mm	Ant 9	ECI7	26340	1880	14.68	16.00	1.355	-	-	-0.02	0.030	0.041
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 9	ECI7	26340	1880	14.66	16.00	1.361	-	-	-0.07	0.173	0.236
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 9	ECI7	26340	1880	14.66	16.00	1.361	-	-	0.1	0.288	0.392
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 9	ECI7	26340	1880	14.66	16.00	1.361	-	-	0	0.413	0.562
	LTE Band 25	20M	QPSK	50	0	-	Top Side	5mm	Ant 9	ECI7	26340	1880	14.66	16.00	1.361	-	-	0.17	0.029	0.039
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI7	26340	1880	13.84	15.50	1.466	-	-	0.07	0.194	0.284
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI7	26340	1880	13.84	15.50	1.466	-	-	-0.06	0.308	0.451
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI7	26340	1880	13.84	15.50	1.466	-	-	-0.06	0.069	0.101
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI7	26340	1880	13.84	15.50	1.466	-	-	0.13	0.015	0.022
	LTE Band 25	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	26340	1880	13.84	15.50	1.466	-	-	-0.15	0.363	0.532
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI7	26340	1880	13.76	15.50	1.493	-	-	0.13	0.166	0.248
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI7	26340	1880	13.76	15.50	1.493	-	-	0.03	0.278	0.415
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI7	26340	1880	13.76	15.50	1.493	-	-	0.05	0.057	0.085
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI7	26340	1880	13.76	15.50	1.493	-	-	0.09	0.012	0.018
	LTE Band 25	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	ECI7	26340	1880	13.76	15.50	1.493	-	-	-0.16	0.353	0.527
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	ECI7	376500	1882.5	17.96	19.50	1.426	-	-	0.17	0.434	0.619
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	ECI7	376500	1882.5	17.96	19.50	1.426	-	-	0.17	0.395	0.563



FCC SAR Test Report

Report No. : FA612609

	FR1 n25	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 2	ECI7	376500	1882.5	17.96	19.50	1.426	-	-	-0.19	0.067	0.096
	FR1 n25	40M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 2	ECI7	376500	1882.5	17.96	19.50	1.426	-	-	-0.11	0.154	0.220
	FR1 n25	40M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 2	ECI7	376500	1882.5	17.96	19.50	1.426	-	-	-0.14	0.671	0.957
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 2	ECI7	376500	1882.5	17.94	19.50	1.432	-	-	-0.1	0.421	0.603
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 2	ECI7	376500	1882.5	17.94	19.50	1.432	-	-	0.18	0.391	0.560
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 2	ECI7	376500	1882.5	17.94	19.50	1.432	-	-	-0.14	0.068	0.097
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Side	5mm	Ant 2	ECI7	376500	1882.5	17.94	19.50	1.432	-	-	-0.06	0.158	0.226
56	FR1 n25	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 2	ECI7	376500	1882.5	17.94	19.50	1.432	-	-	0.17	0.702	1.005
	FR1 n25	40M	QPSK	216	0	DFT-15	Bottom Side	5mm	Ant 2	ECI7	376500	1882.5	17.91	19.50	1.442	-	-	0	0.645	0.930
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 9	ECI7	376500	1882.5	14.01	15.50	1.409	-	-	-0.03	0.178	0.251
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 9	ECI7	376500	1882.5	14.01	15.50	1.409	-	-	-0.06	0.280	0.395
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 9	ECI7	376500	1882.5	14.01	15.50	1.409	-	-	0	0.379	0.534
	FR1 n25	40M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 9	ECI7	376500	1882.5	14.01	15.50	1.409	-	-	0.17	0.026	0.037
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 9	ECI7	376500	1882.5	13.99	15.50	1.416	-	-	-0.12	0.182	0.258
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 9	ECI7	376500	1882.5	13.99	15.50	1.416	-	-	-0.06	0.291	0.412
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 9	ECI7	376500	1882.5	13.99	15.50	1.416	-	-	-0.05	0.389	0.551
	FR1 n25	40M	QPSK	108	54	DFT-15	Top Side	5mm	Ant 9	ECI7	376500	1882.5	13.99	15.50	1.416	-	-	0.05	0.027	0.038
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	ECI7	376500	1882.5	14.39	16.00	1.449	-	-	-0.17	0.225	0.326
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	ECI7	376500	1882.5	14.39	16.00	1.449	-	-	0.03	0.362	0.524
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	ECI7	376500	1882.5	14.39	16.00	1.449	-	-	-0.05	0.067	0.097
	FR1 n25	40M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	ECI7	376500	1882.5	14.39	16.00	1.449	-	-	0.1	0.017	0.025
	FR1 n25	40M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	ECI7	376500	1882.5	14.39	16.00	1.449	-	-	0.19	0.373	0.540
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	ECI7	376500	1882.5	14.36	16.00	1.459	-	-	0.06	0.204	0.298
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	ECI7	376500	1882.5	14.36	16.00	1.459	-	-	0.06	0.317	0.462
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 1	ECI7	376500	1882.5	14.36	16.00	1.459	-	-	0.17	0.061	0.089
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Side	5mm	Ant 1	ECI7	376500	1882.5	14.36	16.00	1.459	-	-	-0.1	0.014	0.020
	FR1 n25	40M	QPSK	108	54	DFT-15	Top Side	5mm	Ant 1	ECI7	376500	1882.5	14.36	16.00	1.459	-	-	-0.01	0.355	0.518
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 2	ECI7	27710	2310	17.88	19.50	1.452	-	-	0.19	0.477	0.693
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 2	ECI7	27710	2310	17.88	19.50	1.452	-	-	-0.01	0.417	0.606
	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant 2	ECI7	27710	2310	17.88	19.50	1.452	-	-	0.19	0.082	0.119
	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant 2	ECI7	27710	2310	17.88	19.50	1.452	-	-	0.16	0.166	0.241
57	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	27710	2310	17.88	19.50	1.452	-	-	-0.03	0.718	1.043
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 2	ECI7	27710	2310	17.84	19.50	1.466	-	-	-0.15	0.417	0.611
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 2	ECI7	27710	2310	17.84	19.50	1.466	-	-	-0.18	0.358	0.525
	LTE Band 30	10M	QPSK	25	0	-	Left Side	5mm	Ant 2	ECI7	27710	2310	17.84	19.50	1.466	-	-	0.14	0.075	0.110
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant 2	ECI7	27710	2310	17.84	19.50	1.466	-	-	-0.18	0.152	0.223
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 2	ECI7	27710	2310	17.84	19.50	1.466	-	-	0.05	0.666	0.976
	LTE Band 30	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	ECI7	27710	2310	17.74	19.50	1.500	-	-	-0.14	0.646	0.969
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 1	ECI7	27710	2310	10.93	12.50	1.435	-	-	0.03	0.118	0.169
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 1	ECI7	27710	2310	10.93	12.50	1.435	-	-	-0.05	0.288	0.413
	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI7	27710	2310	10.93	12.50	1.435	-	-	0.08	0.034	0.049
	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI7	27710	2310	10.93	12.50	1.435	-	-	0.09	0.004	0.006
	LTE Band 30	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	27710	2310	10.93	12.50	1.435	-	-	0.11	0.362	0.520
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 1	ECI7	27710	2310	10.91	12.50	1.442	-	-	0.15	0.152	0.219
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 1	ECI7	27710	2310	10.91	12.50	1.442	-	-	0.12	0.177	0.255
	LTE Band 30	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	ECI7	27710	2310	10.91	12.50	1.442	-	-	-0.04	0.021	0.030
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	ECI7	27710	2310	10.91	12.50	1.442	-	-	0.18	0.000	0.000
	LTE Band 30	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	ECI7	27710	2310	10.91	12.50	1.442	-	-	-0.02	0.318	0.459
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	ECI7	462000	2310	17.24	19.00	1.500	-	-	0.12	0.458	0.687
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	ECI7	462000	2310	17.24	19.00	1.500	-	-	0.05	0.399	0.598
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 2	ECI7	462000	2310	17.24	19.00	1.500	-	-	0.14	0.090	0.135
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 2	ECI7	462000	2310	17.24	19.00	1.500	-	-	0.09	0.162	0.243
58	FR1 n30	10M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 2	ECI7	462000	2310	17.24	19.00	1.500	-	-	0.12	0.754	1.131
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 2	ECI7	462000	2310	17.22	19.00	1.507	-	-	-0.03	0.432	0.651
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 2	ECI7	462000	2310	17.22	19.00	1.507	-	-	-0.17	0.367	0.553



FCC SAR Test Report

Report No. : FA612609

	FR1 n30	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 2	ECI7	462000	2310	17.22	19.00	1.507	-	-	0.14	0.092	0.139
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Side	5mm	Ant 2	ECI7	462000	2310	17.22	19.00	1.507	-	-	-0.04	0.157	0.237
	FR1 n30	10M	QPSK	25	14	DFT-15	Bottom Side	5mm	Ant 2	ECI7	462000	2310	17.22	19.00	1.507	-	-	-0.1	0.713	1.074
	FR1 n30	10M	QPSK	50	0	DFT-15	Bottom Side	5mm	Ant 2	ECI7	462000	2310	17.18	19.00	1.521	-	-	-0.14	0.695	1.057
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	ECI7	462000	2310	10.91	12.50	1.442	-	-	-0.18	0.141	0.203
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	ECI7	462000	2310	10.91	12.50	1.442	-	-	0.07	0.284	0.410
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	ECI7	462000	2310	10.91	12.50	1.442	-	-	0.11	0.030	0.043
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	ECI7	462000	2310	10.91	12.50	1.442	-	-	0.02	0.008	0.012
	FR1 n30	10M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	ECI7	462000	2310	10.91	12.50	1.442	-	-	-0.01	0.377	0.544
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	ECI7	462000	2310	10.86	12.50	1.459	-	-	-0.01	0.132	0.193
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	ECI7	462000	2310	10.86	12.50	1.459	-	-	-0.1	0.269	0.392
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 1	ECI7	462000	2310	10.86	12.50	1.459	-	-	0.06	0.029	0.042
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Side	5mm	Ant 1	ECI7	462000	2310	10.86	12.50	1.459	-	-	-0.01	0.008	0.012
	FR1 n30	10M	QPSK	25	14	DFT-15	Top Side	5mm	Ant 1	ECI7	462000	2310	10.86	12.50	1.459	-	-	0.01	0.365	0.532
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	ECI7	21100	2535	18.33	19.50	1.309	-	-	-0.18	0.554	0.725
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	ECI7	21100	2535	18.33	19.50	1.309	-	-	-0.06	0.460	0.602
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 2	ECI7	21100	2535	18.33	19.50	1.309	-	-	0.12	0.086	0.113
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 2	ECI7	21100	2535	18.33	19.50	1.309	-	-	-0.09	0.211	0.276
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	21100	2535	18.33	19.50	1.309	-	-	-0.1	0.715	0.936
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	20850	2510	18.25	19.50	1.334	-	-	0.09	0.779	1.039
59	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	21350	2560	18.18	19.50	1.355	-	-	-0.03	0.849	1.151
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	ECI7	21100	2535	18.32	19.50	1.312	-	-	-0.14	0.471	0.618
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	ECI7	21100	2535	18.32	19.50	1.312	-	-	-0.1	0.408	0.535
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 2	ECI7	21100	2535	18.32	19.50	1.312	-	-	-0.08	0.082	0.108
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 2	ECI7	21100	2535	18.32	19.50	1.312	-	-	-0.19	0.190	0.249
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	ECI7	21100	2535	18.32	19.50	1.312	-	-	-0.08	0.659	0.865
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	ECI7	20850	2510	18.19	19.50	1.352	-	-	-0.1	0.660	0.892
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 2	ECI7	21350	2560	18.11	19.50	1.377	-	-	0.08	0.820	1.129
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 2	ECI7	21100	2535	18.28	19.50	1.324	-	-	0.07	0.767	1.016
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 9	ECI7	21100	2535	15.25	16.00	1.189	-	-	-0.08	0.279	0.332
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 9	ECI7	21100	2535	15.25	16.00	1.189	-	-	0.07	0.478	0.568
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	ECI7	21100	2535	15.25	16.00	1.189	-	-	-0.1	0.502	0.597
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 9	ECI7	21100	2535	15.25	16.00	1.189	-	-	-0.1	0.053	0.063
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 9	ECI7	21100	2535	15.23	16.00	1.194	-	-	-0.16	0.268	0.320
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 9	ECI7	21100	2535	15.23	16.00	1.194	-	-	0.18	0.454	0.542
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 9	ECI7	21100	2535	15.23	16.00	1.194	-	-	-0.03	0.468	0.559
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 9	ECI7	21100	2535	15.23	16.00	1.194	-	-	0.09	0.051	0.061
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI7	21100	2535	11.37	12.50	1.297	-	-	0.01	0.186	0.241
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI7	21100	2535	11.37	12.50	1.297	-	-	-0.16	0.284	0.368
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI7	21100	2535	11.37	12.50	1.297	-	-	-0.07	0.057	0.074
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI7	21100	2535	11.37	12.50	1.297	-	-	-0.05	0.004	0.005
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	21100	2535	11.37	12.50	1.297	-	-	-0.16	0.445	0.577
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI7	21100	2535	11.32	12.50	1.312	-	-	0.05	0.176	0.231
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI7	21100	2535	11.32	12.50	1.312	-	-	-0.08	0.270	0.354
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI7	21100	2535	11.32	12.50	1.312	-	-	0	0.054	0.071
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI7	21100	2535	11.32	12.50	1.312	-	-	0.01	0.004	0.005
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	ECI7	21100	2535	11.32	12.50	1.312	-	-	-0.14	0.427	0.560
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	ECI7	41490	2680	20.38	21.50	1.294	62.9	1.006	-0.07	0.617	0.803
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	ECI7	41490	2680	20.38	21.50	1.294	62.9	1.006	0.06	0.513	0.668
	LTE Band 41	20M	QPSK	1	49	-	Left Side	5mm	Ant 2	ECI7	41490	2680	20.38	21.50	1.294	62.9	1.006	0.1	0.119	0.155
	LTE Band 41	20M	QPSK	1	49	-	Right Side	5mm	Ant 2	ECI7	41490	2680	20.38	21.50	1.294	62.9	1.006	-0.06	0.203	0.264
	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	5mm	Ant 2	ECI7	41490	2680	20.38	21.50	1.294	62.9	1.006	0.08	0.928	1.208
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	ECI7	39750	2506	20.36	21.50	1.300	62.9	1.006	0.01	0.381	0.498
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	ECI7	40185	2549.5	20.03	21.50	1.403	62.9	1.006	0.19	0.456	0.644
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	ECI7	40620	2593	19.86	21.50	1.459	62.9	1.006	-0.1	0.571	0.838



FCC SAR Test Report

Report No. : FA612609

	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	ECI7	41055	2636.5	20.28	21.50	1.324	62.9	1.006	-0.06	0.628	0.837
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	ECI7	39750	2506	20.36	21.50	1.300	62.9	1.006	-0.08	0.317	0.415
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	ECI7	40185	2549.5	20.03	21.50	1.403	62.9	1.006	0.11	0.379	0.535
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	ECI7	40620	2593	19.86	21.50	1.459	62.9	1.006	0.04	0.475	0.697
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	ECI7	41055	2636.5	20.28	21.50	1.324	62.9	1.006	0.17	0.522	0.695
	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	5mm	Ant 2	ECI7	39750	2506	20.36	21.50	1.300	62.9	1.006	-0.03	0.573	0.749
	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	5mm	Ant 2	ECI7	40185	2549.5	20.03	21.50	1.403	62.9	1.006	-0.16	0.686	0.968
	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	5mm	Ant 2	ECI7	40620	2593	19.86	21.50	1.459	62.9	1.006	0.13	0.849	1.246
60	LTE Band 41	20M	QPSK	1	49	-	Bottom Side	5mm	Ant 2	ECI7	41055	2636.5	20.28	21.50	1.324	62.9	1.006	-0.18	0.945	1.259
	LTE Band 41C	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	41490 41292	2680 2660.2	20.36	21.50	1.300	62.9	1.006	0.06	0.859	1.124
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Bottom Side	5mm	Ant 2	ECI7	41055	2636.5	21.93	23.10	1.309	42.9	1.009	-0.05	0.916	1.210
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	ECI7	41490 41292	2680 2660.2	21.96	23.10	1.300	42.9	1.009	0.07	0.907	1.190
	LTE Band 41	20M	QPSK	50	24	-	Front	5mm	Ant 2	ECI7	41490	2680	20.37	21.50	1.297	62.9	1.006	0.1	0.581	0.758
	LTE Band 41	20M	QPSK	50	24	-	Back	5mm	Ant 2	ECI7	41490	2680	20.37	21.50	1.297	62.9	1.006	0.18	0.480	0.626
	LTE Band 41	20M	QPSK	50	24	-	Left Side	5mm	Ant 2	ECI7	41490	2680	20.37	21.50	1.297	62.9	1.006	0.12	0.115	0.150
	LTE Band 41	20M	QPSK	50	24	-	Right Side	5mm	Ant 2	ECI7	41490	2680	20.37	21.50	1.297	62.9	1.006	0	0.191	0.249
	LTE Band 41	20M	QPSK	50	24	-	Bottom Side	5mm	Ant 2	ECI7	41490	2680	20.37	21.50	1.297	62.9	1.006	0	0.888	1.159
	LTE Band 41	20M	QPSK	50	24	-	Front	5mm	Ant 2	ECI7	39750	2506	20.33	21.50	1.309	62.9	1.006	-0.17	0.356	0.469
	LTE Band 41	20M	QPSK	50	24	-	Front	5mm	Ant 2	ECI7	40185	2549.5	19.99	21.50	1.416	62.9	1.006	0.05	0.437	0.622
	LTE Band 41	20M	QPSK	50	24	-	Front	5mm	Ant 2	ECI7	40620	2593	19.80	21.50	1.479	62.9	1.006	0.12	0.548	0.815
	LTE Band 41	20M	QPSK	50	24	-	Front	5mm	Ant 2	ECI7	41055	2636.5	20.20	21.50	1.349	62.9	1.006	0.09	0.594	0.806
	LTE Band 41	20M	QPSK	50	24	-	Back	5mm	Ant 2	ECI7	39750	2506	20.33	21.50	1.309	62.9	1.006	0.03	0.307	0.404
	LTE Band 41	20M	QPSK	50	24	-	Back	5mm	Ant 2	ECI7	40185	2549.5	19.99	21.50	1.416	62.9	1.006	-0.19	0.362	0.516
	LTE Band 41	20M	QPSK	50	24	-	Back	5mm	Ant 2	ECI7	40620	2593	19.80	21.50	1.479	62.9	1.006	-0.08	0.447	0.665
	LTE Band 41	20M	QPSK	50	24	-	Back	5mm	Ant 2	ECI7	41055	2636.5	20.20	21.50	1.349	62.9	1.006	-0.01	0.508	0.689
	LTE Band 41	20M	QPSK	50	24	-	Bottom Side	5mm	Ant 2	ECI7	39750	2506	20.33	21.50	1.309	62.9	1.006	-0.16	0.550	0.724
	LTE Band 41	20M	QPSK	50	24	-	Bottom Side	5mm	Ant 2	ECI7	40185	2549.5	19.99	21.50	1.416	62.9	1.006	-0.09	0.646	0.920
	LTE Band 41	20M	QPSK	50	24	-	Bottom Side	5mm	Ant 2	ECI7	40620	2593	19.80	21.50	1.479	62.9	1.006	-0.11	0.815	1.213
	LTE Band 41	20M	QPSK	50	24	-	Bottom Side	5mm	Ant 2	ECI7	41055	2636.5	20.20	21.50	1.349	62.9	1.006	-0.11	0.888	1.205
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 2	ECI7	41490	2680	20.33	21.50	1.309	62.9	1.006	-0.08	0.581	0.765
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 2	ECI7	41490	2680	20.33	21.50	1.309	62.9	1.006	0.19	0.478	0.630
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 2	ECI7	41490	2680	20.33	21.50	1.309	62.9	1.006	0.16	0.886	1.167
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 9	ECI7	41490	2680	18.54	19.00	1.112	62.9	1.006	0.16	0.269	0.301
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	ECI7	41490	2680	18.54	19.00	1.112	62.9	1.006	-0.14	0.436	0.488
	LTE Band 41	20M	QPSK	1	49	-	Left Side	5mm	Ant 9	ECI7	41490	2680	18.54	19.00	1.112	62.9	1.006	0.04	0.542	0.606
	LTE Band 41	20M	QPSK	1	49	-	Top Side	5mm	Ant 9	ECI7	41490	2680	18.54	19.00	1.112	62.9	1.006	0.07	0.048	0.054
	LTE Band 41	20M	QPSK	1	49	-	Left Side	5mm	Ant 9	ECI7	39750	2506	18.23	19.00	1.194	62.9	1.006	0.05	0.394	0.473
	LTE Band 41	20M	QPSK	1	49	-	Left Side	5mm	Ant 9	ECI7	40185	2549.5	17.90	19.00	1.288	62.9	1.006	-0.12	0.419	0.543
	LTE Band 41	20M	QPSK	1	49	-	Left Side	5mm	Ant 9	ECI7	40620	2593	17.79	19.00	1.321	62.9	1.006	0.08	0.459	0.610
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	ECI7	41490 41292	2680 2660.2	18.30	19.00	1.175	62.9	1.006	0.03	0.396	0.468
	LTE Band 41	20M	QPSK	1	49	-	Left Side	5mm	Ant 9	ECI7	41055	2636.5	18.18	19.00	1.208	62.9	1.006	-0.05	0.470	0.571
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Left Side	5mm	Ant 9	ECI7	40620	2593	19.43	20.60	1.309	42.9	1.009	0.04	0.460	0.608
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	ECI7	41490 41292	2680 2660.2	20.08	20.60	1.127	42.9	1.009	0.08	0.389	0.442
	LTE Band 41	20M	QPSK	50	24	-	Front	5mm	Ant 9	ECI7	41490	2535	18.47	19.00	1.130	62.9	1.006	-0.19	0.256	0.291
	LTE Band 41	20M	QPSK	50	24	-	Back	5mm	Ant 9	ECI7	41490	2535	18.47	19.00	1.130	62.9	1.006	-0.11	0.410	0.466
	LTE Band 41	20M	QPSK	50	24	-	Left Side	5mm	Ant 9	ECI7	41490	2535	18.47	19.00	1.130	62.9	1.006	0.09	0.514	0.584
	LTE Band 41	20M	QPSK	50	24	-	Top Side	5mm	Ant 9	ECI7	41490	2535	18.47	19.00	1.130	62.9	1.006	0.08	0.046	0.052
	LTE Band 41	20M	QPSK	100	0	-	Left Side	5mm	Ant 9	ECI7	41490	2680	18.37	19.00	1.156	62.9	1.006	-0.12	0.503	0.585
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 1	ECI7	40185	2549.5	14.44	15.50	1.276	62.9	1.006	-0.12	0.162	0.208
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	ECI7	40185	2549.5	14.44	15.50	1.276	62.9	1.006	0.06	0.197	0.253
	LTE Band 41	20M	QPSK	1	49	-	Left Side	5mm	Ant 1	ECI7	40185	2549.5	14.44	15.50	1.276	62.9	1.006	0.1	0.062	0.080
	LTE Band 41	20M	QPSK	1	49	-	Right Side	5mm	Ant 1	ECI7	40185	2549.5	14.44	15.50	1.276	62.9	1.006	0.03	0.005	0.006
	LTE Band 41	20M	QPSK	1	49	-	Top Side	5mm	Ant 1	ECI7	40185	2549.5	14.44	15.50	1.276	62.9	1.006	-0.15	0.387	0.497
	LTE Band 41C	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	40185 40383	2549.5 2569.3	14.03	15.50	1.403	62.9	1.006	0.09	0.334	0.471
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Top Side	5mm	Ant 1	ECI7	40185	2549.5	16.34	17.10	1.191	42.9	1.009	-0.07	0.384	0.462



FCC SAR Test Report

Report No. : FA612609

	LTE Band 41C HPUE	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI7	40185 40383	2549.5 2569.3	15.80	17.10	1.349	42.9	1.009	0.06	0.335	0.456
	LTE Band 41	20M	QPSK	50	24	-	Front	5mm	Ant 1	ECI7	40185	2549.5	14.43	15.50	1.279	62.9	1.006	-0.07	0.158	0.203
	LTE Band 41	20M	QPSK	50	24	-	Back	5mm	Ant 1	ECI7	40185	2549.5	14.43	15.50	1.279	62.9	1.006	-0.02	0.186	0.239
	LTE Band 41	20M	QPSK	50	24	-	Left Side	5mm	Ant 1	ECI7	40185	2549.5	14.43	15.50	1.279	62.9	1.006	-0.14	0.058	0.075
	LTE Band 41	20M	QPSK	50	24	-	Right Side	5mm	Ant 1	ECI7	40185	2549.5	14.43	15.50	1.279	62.9	1.006	-0.08	0.005	0.006
	LTE Band 41	20M	QPSK	50	24	-	Top Side	5mm	Ant 1	ECI7	40185	2549.5	14.43	15.50	1.279	62.9	1.006	-0.17	0.377	0.485
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	ECI7	507000	2535	18.53	20.00	1.403	-	-	-0.17	0.562	0.788
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	ECI7	507000	2535	18.53	20.00	1.403	-	-	0.12	0.449	0.630
	FR1 n7	50M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 2	ECI7	507000	2535	18.53	20.00	1.403	-	-	0.14	0.113	0.159
	FR1 n7	50M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 2	ECI7	507000	2535	18.53	20.00	1.403	-	-	-0.13	0.231	0.324
	FR1 n7	50M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 2	ECI7	507000	2535	18.53	20.00	1.403	-	-	0.01	0.773	1.084
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	5mm	Ant 2	ECI7	507000	2535	18.52	20.00	1.406	-	-	0.06	0.578	0.813
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	5mm	Ant 2	ECI7	507000	2535	18.52	20.00	1.406	-	-	0.14	0.472	0.664
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Side	5mm	Ant 2	ECI7	507000	2535	18.52	20.00	1.406	-	-	0.19	0.121	0.170
	FR1 n7	50M	QPSK	135	68	DFT-15	Right Side	5mm	Ant 2	ECI7	507000	2535	18.52	20.00	1.406	-	-	0.09	0.236	0.332
61	FR1 n7	50M	QPSK	135	68	DFT-15	Bottom Side	5mm	Ant 2	ECI7	507000	2535	18.52	20.00	1.406	-	-	-0.03	0.802	1.128
	FR1 n7	50M	QPSK	270	0	DFT-15	Front	5mm	Ant 2	ECI7	507000	2535	18.50	20.00	1.413	-	-	-0.09	0.541	0.764
	FR1 n7	50M	QPSK	270	0	DFT-15	Bottom Side	5mm	Ant 2	ECI7	507000	2535	18.50	20.00	1.413	-	-	0.03	0.729	1.030
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	ECI7	507000	2535	11.43	13.00	1.435	-	-	0	0.149	0.214
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	ECI7	507000	2535	11.43	13.00	1.435	-	-	-0.13	0.216	0.310
	FR1 n7	50M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	ECI7	507000	2535	11.43	13.00	1.435	-	-	0.1	0.063	0.090
	FR1 n7	50M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	ECI7	507000	2535	11.43	13.00	1.435	-	-	-0.18	0.005	0.007
	FR1 n7	50M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	ECI7	507000	2535	11.43	13.00	1.435	-	-	-0.1	0.361	0.518
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	5mm	Ant 1	ECI7	507000	2535	11.41	13.00	1.442	-	-	0.12	0.167	0.241
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	5mm	Ant 1	ECI7	507000	2535	11.41	13.00	1.442	-	-	0.11	0.192	0.277
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Side	5mm	Ant 1	ECI7	507000	2535	11.41	13.00	1.442	-	-	0.01	0.068	0.098
	FR1 n7	50M	QPSK	135	68	DFT-15	Right Side	5mm	Ant 1	ECI7	507000	2535	11.41	13.00	1.442	-	-	0.06	0.006	0.009
	FR1 n7	50M	QPSK	135	68	DFT-15	Top Side	5mm	Ant 1	ECI7	507000	2535	11.41	13.00	1.442	-	-	-0.02	0.380	0.548
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	ECI7	518598	2592.99	17.68	19.00	1.355	-	-	-0.01	0.586	0.794
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	ECI7	518598	2592.99	17.68	19.00	1.355	-	-	-0.05	0.486	0.659
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 2	ECI7	518598	2592.99	17.68	19.00	1.355	-	-	0	0.099	0.134
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 2	ECI7	518598	2592.99	17.68	19.00	1.355	-	-	-0.11	0.200	0.271
	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 2	ECI7	518598	2592.99	17.68	19.00	1.355	-	-	0.11	0.750	1.016
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	ECI7	518598	2592.99	17.62	19.00	1.374	-	-	0.13	0.608	0.835
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	ECI7	518598	2592.99	17.62	19.00	1.374	-	-	-0.05	0.511	0.702
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 2	ECI7	518598	2592.99	17.62	19.00	1.374	-	-	0.03	0.101	0.139
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 2	ECI7	518598	2592.99	17.62	19.00	1.374	-	-	0.07	0.206	0.283
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	5mm	Ant 2	ECI7	518598	2592.99	17.62	19.00	1.374	-	-	-0.01	0.796	1.094
	FR1 n41C	100M	QPSK	180	93	DFT-30	Bottom Side	5mm	Ant 2	ECI7	520056 534000	2600.28 2670	17.65	19.00	1.365	-	-	-0.05	0.751	1.025
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	5mm	Ant 2	ECI7	518598	2592.99	20.73	22.00	1.340	50	1.000	-0.01	0.754	1.010
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 2	ECI7	518598	2592.99	17.57	19.00	1.390	-	-	0.13	0.554	0.770
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 2	ECI7	518598	2592.99	17.57	19.00	1.390	-	-	0.11	0.462	0.642
	FR1 n41	100M	QPSK	270	0	DFT-30	Bottom Side	5mm	Ant 2	ECI7	518598	2592.99	17.57	19.00	1.390	-	-	-0.18	0.730	1.015
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 9	ECI7	518598	2592.99	13.63	15.00	1.371	-	-	-0.08	0.238	0.326
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	ECI7	518598	2592.99	13.63	15.00	1.371	-	-	0.01	0.397	0.544
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 9	ECI7	518598	2592.99	13.63	15.00	1.371	-	-	-0.09	0.413	0.566
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 9	ECI7	518598	2592.99	13.63	15.00	1.371	-	-	0.18	0.044	0.060
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 9	ECI7	518598	2592.99	13.60	15.00	1.380	-	-	0.13	0.244	0.337
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 9	ECI7	518598	2592.99	13.60	15.00	1.380	-	-	-0.02	0.407	0.562
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 9	ECI7	518598	2592.99	13.60	15.00	1.380	-	-	-0.11	0.427	0.589
	FR1 n41C	100M	QPSK	180	93	DFT-30	Left Side	5mm	Ant 9	ECI7	520056 534000	2600.28 2670	13.59	15.00	1.384	-	-	0.01	0.386	0.534
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 9	ECI7	518598	2592.99	13.60	15.00	1.380	-	-	-0.08	0.045	0.062
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 9	ECI7	518598	2592.99	16.86	18.00	1.300	50	1.000	-0.11	0.422	0.549
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 1	ECI7	518598	2592.99	12.37	13.50	1.297	-	-	0.02	0.172	0.223
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	ECI7	518598	2592.99	12.37	13.50	1.297	-	-	0.1	0.279	0.362



FCC SAR Test Report

Report No. : FA612609

	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 1	ECI7	518598	2592.99	12.37	13.50	1.297	-	-	0.03	0.064	0.083
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 1	ECI7	518598	2592.99	12.37	13.50	1.297	-	-	0.19	0.006	0.008
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 1	ECI7	518598	2592.99	12.37	13.50	1.297	-	-	-0.07	0.469	0.608
	FR1 n41C	100M	QPSK	180	93	DFT-30	Top Side	5mm	Ant 1	ECI7	520056 534000	2600.28 2670	12.28	13.50	1.324	-	-	0.18	0.421	0.558
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 1	ECI7	518598	2592.99	15.36	16.50	1.300	50	1.000	-0.07	0.443	0.576
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 1	ECI7	518598	2592.99	12.36	13.50	1.300	-	-	-0.08	0.162	0.211
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 1	ECI7	518598	2592.99	12.36	13.50	1.300	-	-	0.05	0.265	0.345
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 1	ECI7	518598	2592.99	12.36	13.50	1.300	-	-	-0.15	0.060	0.078
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 1	ECI7	518598	2592.99	12.36	13.50	1.300	-	-	-0.05	0.006	0.008
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 1	ECI7	518598	2592.99	12.36	13.50	1.300	-	-	0.04	0.441	0.573
	FR1 n41	100M	QPSK	270	0	DFT-30	Top Side	5mm	Ant 1	ECI7	518598	2592.99	12.32	13.50	1.312	-	-	0.14	0.383	0.503
62	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 0	ECI7	518598	2592.99	22.24	23.50	1.337	-	-	0.11	0.915	1.223
	FR1 n41C	100M 40M	QPSK	180	93	DFT-30	Front	5mm	Ant 0	ECI7	520056 534000	2600.28 2670	22.27	23.50	1.327	-	-	-0.13	0.836	1.110
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 0	ECI7	518598	2592.99	22.24	23.50	1.337	-	-	-0.09	0.792	1.059
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 0	ECI7	518598	2592.99	22.24	23.50	1.337	-	-	-0.16	0.412	0.551
	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	5mm	Ant 0	ECI7	518598	2592.99	22.24	23.50	1.337	-	-	-0.13	0.485	0.648
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 0	ECI7	518598	2592.99	25.22	26.50	1.343	50	1.000	0.11	0.902	1.211
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 0	ECI7	518598	2592.99	22.18	23.50	1.355	-	-	-0.04	0.872	1.182
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 0	ECI7	518598	2592.99	22.18	23.50	1.355	-	-	-0.03	0.749	1.015
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 0	ECI7	518598	2592.99	22.18	23.50	1.355	-	-	0.18	0.394	0.534
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	5mm	Ant 0	ECI7	518598	2592.99	22.18	23.50	1.355	-	-	-0.03	0.454	0.615
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 0	ECI7	518598	2592.99	21.54	23.00	1.400	-	-	0.14	0.817	1.143
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 0	ECI7	518598	2592.99	21.54	23.00	1.400	-	-	-0.16	0.691	0.967
	FR1 n41	100M	QPSK	270	0	DFT-30	Bottom Side	5mm	Ant 0	ECI7	518598	2592.99	21.54	23.00	1.400	-	-	-0.17	0.436	0.610
3-4GHz																				
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 7	ECI7	42590	3500	13.94	15.50	1.432	62.9	1.006	-0.1	0.160	0.231
63	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 7	ECI7	42590	3500	13.94	15.50	1.432	62.9	1.006	0.06	0.362	0.522
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	5mm	Ant 7	ECI7	42590	3500	13.94	15.50	1.432	62.9	1.006	-0.16	0.238	0.343
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	ECI7	42590	3500	13.94	15.50	1.432	62.9	1.006	-0.16	0.043	0.062
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 7	ECI7	42590	3500	13.88	15.50	1.452	62.9	1.006	0.08	0.150	0.219
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 7	ECI7	42590	3500	13.88	15.50	1.452	62.9	1.006	-0.08	0.341	0.498
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	5mm	Ant 7	ECI7	42590	3500	13.88	15.50	1.452	62.9	1.006	0.02	0.231	0.337
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Top Side	5mm	Ant 7	ECI7	42590	3500	13.88	15.50	1.452	62.9	1.006	-0.13	0.041	0.060
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 7	ECI7	43340	3575	13.93	15.50	1.435	62.9	1.006	0.07	0.192	0.277
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 7	ECI7	43340	3575	13.93	15.50	1.435	62.9	1.006	-0.01	0.331	0.478
	LTE Band 42	20M	QPSK	1	0	-	Left Side	5mm	Ant 7	ECI7	43340	3575	13.93	15.50	1.435	62.9	1.006	0.16	0.283	0.409
	LTE Band 42	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	ECI7	43340	3575	13.93	15.50	1.435	62.9	1.006	-0.13	0.052	0.075
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 7	ECI7	43340	3575	13.87	15.50	1.455	62.9	1.006	0.07	0.177	0.259
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 7	ECI7	43340	3575	13.87	15.50	1.455	62.9	1.006	0.1	0.345	0.505
	LTE Band 42	20M	QPSK	50	0	-	Left Side	5mm	Ant 7	ECI7	43340	3575	13.87	15.50	1.455	62.9	1.006	-0.13	0.277	0.406
	LTE Band 42	20M	QPSK	50	0	-	Top Side	5mm	Ant 7	ECI7	43340	3575	13.87	15.50	1.455	62.9	1.006	0.02	0.049	0.072
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 7	ECI7	55830	3609	11.99	13.50	1.416	62.9	1.006	0.05	0.146	0.208
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 7	ECI7	55830	3609	11.99	13.50	1.416	62.9	1.006	-0.12	0.342	0.487
	LTE Band 48C	20M	QPSK	1	0	-	Back	5mm	Ant 7	ECI7	56150 56348	3641 3660.8	11.92	13.50	1.439	62.9	1.006	0.06	0.216	0.313
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 7	ECI7	55830	3609	11.99	13.50	1.416	62.9	1.006	0.11	0.236	0.336
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	ECI7	55830	3609	11.99	13.50	1.416	62.9	1.006	0.11	0.040	0.057
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 7	ECI7	55830	3609	11.94	13.50	1.432	62.9	1.006	0.14	0.134	0.193
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 7	ECI7	55830	3609	11.94	13.50	1.432	62.9	1.006	-0.06	0.326	0.470
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 7	ECI7	55830	3609	11.94	13.50	1.432	62.9	1.006	0.06	0.219	0.316
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 7	ECI7	55830	3609	11.94	13.50	1.432	62.9	1.006	-0.01	0.034	0.049
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	ECI7	55830	3609	16.90	18.50	1.445	62.9	1.006	-0.05	0.333	0.484
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	ECI7	55830	3609	16.90	18.50	1.445	62.9	1.006	0.12	0.190	0.276
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	ECI7	55830	3609	16.90	18.50	1.445	62.9	1.006	0.04	0.417	0.606
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 5	ECI7	55830	3609	16.90	18.50	1.445	62.9	1.006	0.12	0.174	0.253
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	ECI7	55340	3560	16.83	18.50	1.469	62.9	1.006	-0.06	0.381	0.563



FCC SAR Test Report

Report No. : FA612609

	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	ECI7	56150	3641	16.87	18.50	1.455	62.9	1.006	0.13	0.400	0.586
64	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	ECI7	56640	3690	16.82	18.50	1.472	62.9	1.006	0.14	0.414	0.613
	LTE Band 48C	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	ECI7	56150 56348	3641 3660.8	16.82	18.50	1.472	62.9	1.006	0.12	0.331	0.490
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	ECI7	55830	3609	16.85	18.50	1.462	62.9	1.006	-0.09	0.319	0.469
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	ECI7	55830	3609	16.85	18.50	1.462	62.9	1.006	0.14	0.178	0.262
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 5	ECI7	55830	3609	16.85	18.50	1.462	62.9	1.006	0.03	0.398	0.585
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 5	ECI7	55830	3609	16.85	18.50	1.462	62.9	1.006	0.01	0.164	0.241
	LTE Band 48	20M	QPSK	100	0	-	Right Side	5mm	Ant 5	ECI7	55830	3609	16.82	18.50	1.472	62.9	1.006	-0.01	0.378	0.560
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	ECI7	645332	3679.98	12.00	13.50	1.413	-	-	0.09	0.219	0.309
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	ECI7	645332	3679.98	12.00	13.50	1.413	-	-	0.01	0.385	0.544
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 7	ECI7	645332	3679.98	12.00	13.50	1.413	-	-	-0.1	0.347	0.490
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 7	ECI7	645332	3679.98	12.00	13.50	1.413	-	-	0.09	0.058	0.082
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 7	ECI7	645332	3679.98	11.97	13.50	1.422	-	-	0.09	0.189	0.269
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 7	ECI7	645332	3679.98	11.97	13.50	1.422	-	-	0	0.356	0.506
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 7	ECI7	645332	3679.98	11.97	13.50	1.422	-	-	0.19	0.334	0.475
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 7	ECI7	645332	3679.98	11.97	13.50	1.422	-	-	0.15	0.049	0.070
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	ECI7	641666	3624.99	15.54	17.00	1.400	-	-	-0.03	0.342	0.479
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	ECI7	641666	3624.99	15.54	17.00	1.400	-	-	-0.04	0.190	0.266
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	ECI7	641666	3624.99	15.54	17.00	1.400	-	-	-0.08	0.430	0.602
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 5	ECI7	641666	3624.99	15.54	17.00	1.400	-	-	-0.15	0.124	0.174
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	ECI7	638000	3570	15.37	17.00	1.455	-	-	-0.12	0.420	0.611
65	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	ECI7	645332	3679.98	15.45	17.00	1.429	-	-	0.16	0.428	0.612
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 5	ECI7	641666	3624.99	15.48	17.00	1.419	-	-	0.17	0.374	0.531
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	ECI7	641666	3624.99	15.48	17.00	1.419	-	-	0.02	0.135	0.192
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 5	ECI7	641666	3624.99	15.48	17.00	1.419	-	-	-0.18	0.391	0.555
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 5	ECI7	641666	3624.99	15.48	17.00	1.419	-	-	0.06	0.130	0.184
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 5	ECI7	638000	3570	15.35	17.00	1.462	-	-	0.01	0.389	0.569
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 5	ECI7	645332	3679.98	15.37	17.00	1.455	-	-	-0.04	0.380	0.553
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Side	5mm	Ant 5	ECI7	641666	3624.99	15.46	17.00	1.426	-	-	-0.12	0.325	0.463
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	ECI7	641666	3624.99	13.87	15.00	1.297	-	-	-0.08	0.022	0.029
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	ECI7	641666	3624.99	13.87	15.00	1.297	-	-	0	0.438	0.568
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 10	ECI7	641666	3624.99	13.87	15.00	1.297	-	-	0.02	0.082	0.106
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 10	ECI7	641666	3624.99	13.87	15.00	1.297	-	-	-0.16	0.065	0.084
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 10	ECI7	641666	3624.99	13.83	15.00	1.309	-	-	-0.06	0.021	0.027
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 10	ECI7	641666	3624.99	13.83	15.00	1.309	-	-	0.12	0.412	0.539
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 10	ECI7	641666	3624.99	13.83	15.00	1.309	-	-	0.07	0.078	0.102
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 10	ECI7	641666	3624.99	13.83	15.00	1.309	-	-	0.19	0.061	0.080
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	ECI7	641666	3624.99	15.08	15.50	1.102	-	-	0.17	0.214	0.236
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	ECI7	641666	3624.99	15.08	15.50	1.102	-	-	-0.13	0.258	0.284
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 4	ECI7	641666	3624.99	15.08	15.50	1.102	-	-	-0.14	0.051	0.056
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	ECI7	641666	3624.99	15.08	15.50	1.102	-	-	-0.16	0.425	0.468
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 4	ECI7	641666	3624.99	15.01	15.50	1.119	-	-	-0.05	0.246	0.275
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	ECI7	641666	3624.99	15.01	15.50	1.119	-	-	-0.05	0.290	0.325
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 4	ECI7	641666	3624.99	15.01	15.50	1.119	-	-	-0.01	0.055	0.062
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 4	ECI7	641666	3624.99	15.01	15.50	1.119	-	-	-0.04	0.456	0.510
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	ECI7	633332	3499.98	10.81	12.50	1.476	-	-	0.03	0.114	0.168
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	ECI7	633332	3499.98	10.81	12.50	1.476	-	-	0.1	0.188	0.277
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 7	ECI7	633332	3499.98	10.81	12.50	1.476	-	-	0.09	0.174	0.257
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 7	ECI7	633332	3499.98	10.81	12.50	1.476	-	-	0.06	0.036	0.053
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7	ECI7	633332	3499.98	10.77	12.50	1.489	-	-	0.09	0.122	0.182
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	ECI7	633332	3499.98	10.77	12.50	1.489	-	-	-0.15	0.195	0.290
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 7	ECI7	633332	3499.98	10.77	12.50	1.489	-	-	0.08	0.184	0.274
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 7	ECI7	633332	3499.98	10.77	12.50	1.489	-	-	0	0.038	0.057
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	ECI7	633332	3499.98	13.69	15.50	1.517	50	1.000	-0.15	0.175	0.265
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	ECI7	656000	3840	10.82	12.50	1.472	-	-	-0.08	0.153	0.225
66	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	ECI7	656000	3840	10.82	12.50	1.472	-	-	0.1	0.398	0.586



FCC SAR Test Report

Report No. : FA612609

FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Back	5mm	Ant 7	ECI7	650000 654648	3750 3819.72	10.80	12.50	1.479	-	-	-0.15	0.324	0.479
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 7	ECI7	656000	3840	10.82	12.50	1.472	-	-	-0.01	0.262	0.386
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 7	ECI7	656000	3840	10.82	12.50	1.472	-	-	0.13	0.055	0.081
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	ECI7	656000	3840	13.86	15.50	1.459	50	1.000	0.1	0.385	0.562
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7	ECI7	656000	3840	10.78	12.50	1.486	-	-	0.13	0.143	0.212
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	ECI7	656000	3840	10.78	12.50	1.486	-	-	-0.18	0.383	0.569
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 7	ECI7	656000	3840	10.78	12.50	1.486	-	-	0.09	0.249	0.370
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 7	ECI7	656000	3840	10.78	12.50	1.486	-	-	0.1	0.051	0.076
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 7	ECI7	656000	3840	10.74	12.50	1.500	-	-	-0.18	0.369	0.553
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	ECI7	633332	3499.98	13.41	15.00	1.442	-	-	-0.04	0.191	0.275
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	ECI7	633332	3499.98	13.41	15.00	1.442	-	-	-0.06	0.116	0.167
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	ECI7	633332	3499.98	13.41	15.00	1.442	-	-	0.17	0.250	0.361
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 5	ECI7	633332	3499.98	13.41	15.00	1.442	-	-	-0.14	0.054	0.078
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	ECI7	633332	3499.98	13.33	15.00	1.469	-	-	0.1	0.202	0.297
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	ECI7	633332	3499.98	13.33	15.00	1.469	-	-	0.14	0.120	0.176
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 5	ECI7	633332	3499.98	13.33	15.00	1.469	-	-	0.09	0.256	0.376
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 5	ECI7	633332	3499.98	13.33	15.00	1.469	-	-	-0.12	0.057	0.084
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 5	ECI7	633332	3499.98	16.41	18.00	1.442	50	1.000	0.09	0.241	0.348
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	ECI7	656000	3840	13.56	15.00	1.393	-	-	-0.11	0.377	0.525
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	ECI7	656000	3840	13.56	15.00	1.393	-	-	-0.18	0.263	0.366
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	ECI7	656000	3840	13.56	15.00	1.393	-	-	0.04	0.419	0.584
FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Right Side	5mm	Ant 5	ECI7	650000 654648	3750 3819.72	13.63	15.00	1.371	-	-	-0.01	0.386	0.529
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 5	ECI7	656000	3840	13.56	15.00	1.393	-	-	0.01	0.215	0.300
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	ECI7	656000	3840	16.45	18.00	1.429	50	1.000	0.04	0.385	0.550
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	ECI7	656000	3840	13.54	15.00	1.400	-	-	0.03	0.359	0.502
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	ECI7	656000	3840	13.54	15.00	1.400	-	-	0.07	0.256	0.358
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 5	ECI7	656000	3840	13.54	15.00	1.400	-	-	0.09	0.394	0.551
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 5	ECI7	656000	3840	13.54	15.00	1.400	-	-	-0.15	0.203	0.284
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 5	ECI7	656000	3840	13.49	15.00	1.416	-	-	-0.01	0.343	0.486
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Right Side	5mm	Ant 5	ECI7	656000	3840	13.49	15.00	1.416	-	-	-0.03	0.384	0.544
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	ECI7	633332	3499.98	13.72	14.00	1.067	-	-	0.15	0.043	0.046
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	ECI7	633332	3499.98	13.72	14.00	1.067	-	-	0.13	0.354	0.378
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 10	ECI7	633332	3499.98	13.72	14.00	1.067	-	-	-0.17	0.132	0.141
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 10	ECI7	633332	3499.98	13.72	14.00	1.067	-	-	-0.02	0.118	0.126
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	ECI7	633332	3499.98	13.68	14.00	1.076	-	-	0.18	0.034	0.037
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	ECI7	633332	3499.98	13.68	14.00	1.076	-	-	-0.17	0.353	0.380
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 10	ECI7	633332	3499.98	13.68	14.00	1.076	-	-	0	0.103	0.111
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 10	ECI7	633332	3499.98	13.68	14.00	1.076	-	-	-0.05	0.081	0.087
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	ECI7	633332	3499.98	16.52	17.00	1.117	50	1.000	-0.17	0.342	0.382
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	ECI7	656000	3840	13.81	14.00	1.045	-	-	0.13	0.016	0.017
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	ECI7	656000	3840	13.81	14.00	1.045	-	-	-0.16	0.398	0.416
FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Back	5mm	Ant 10	ECI7	650000 654648	3750 3819.72	13.77	14.00	1.054	-	-	-0.1	0.356	0.375
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 10	ECI7	656000	3840	13.81	14.00	1.045	-	-	0.12	0.102	0.107
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 10	ECI7	656000	3840	13.81	14.00	1.045	-	-	-0.12	0.083	0.087
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	ECI7	656000	3840	16.83	17.00	1.040	50	1.000	-0.16	0.384	0.399
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	ECI7	656000	3840	13.76	14.00	1.057	-	-	-0.08	0.012	0.013
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	ECI7	656000	3840	13.76	14.00	1.057	-	-	0.02	0.356	0.376
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 10	ECI7	656000	3840	13.76	14.00	1.057	-	-	-0.05	0.064	0.068
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 10	ECI7	656000	3840	13.76	14.00	1.057	-	-	0.11	0.047	0.050
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 10	ECI7	656000	3840	13.71	14.00	1.069	-	-	0.08	0.335	0.358
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	ECI7	633332	3499.98	13.46	15.00	1.426	-	-	-0.04	0.053	0.076
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	ECI7	633332	3499.98	13.46	15.00	1.426	-	-	-0.05	0.046	0.066
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 4	ECI7	633332	3499.98	13.46	15.00	1.426	-	-	0.06	0.013	0.019
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	ECI7	633332	3499.98	13.46	15.00	1.426	-	-	-0.14	0.075	0.107
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	ECI7	633332	3499.98	13.38	15.00	1.452	-	-	-0.09	0.059	0.086



FCC SAR Test Report

Report No. : FA612609

	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	ECI7	633332	3499.98	13.38	15.00	1.452	-	-	-0.17	0.053	0.077
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 4	ECI7	633332	3499.98	13.38	15.00	1.452	-	-	0.15	0.015	0.022
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 4	ECI7	633332	3499.98	13.38	15.00	1.452	-	-	0.15	0.089	0.129
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 4	ECI7	633332	3499.98	16.29	18.00	1.483	50	1.000	0.15	0.075	0.111
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	ECI7	656000	3840	13.40	15.00	1.445	-	-	0.07	0.158	0.228
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	ECI7	656000	3840	13.40	15.00	1.445	-	-	0.15	0.123	0.178
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 4	ECI7	656000	3840	13.40	15.00	1.445	-	-	-0.07	0.056	0.081
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	ECI7	656000	3840	13.40	15.00	1.445	-	-	-0.17	0.381	0.551
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	ECI7	656000	3840	13.35	15.00	1.462	-	-	-0.19	0.143	0.209
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	ECI7	656000	3840	13.35	15.00	1.462	-	-	0.09	0.122	0.178
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 4	ECI7	656000	3840	13.35	15.00	1.462	-	-	0.07	0.051	0.075
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 4	ECI7	656000	3840	13.35	15.00	1.462	-	-	-0.02	0.391	0.572
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Top Side	5mm	Ant 4	ECI7	650000 654648	3750 3819.72	13.72	15.00	1.343	-	-	-0.19	0.382	0.513
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 4	ECI7	656000	3840	16.30	18.00	1.479	50	1.000	-0.02	0.374	0.553
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Top Side	5mm	Ant 4	ECI7	656000	3840	13.28	15.00	1.486	-	-	0.02	0.357	0.530

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)
WLAN																
67	Bluetooth	DH5 1Mbps	Front	5mm	Ant 3	Hotspot	39	2441	11.60	12.50	1.230	76.80	1.085	0.12	0.037	0.050
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Hotspot	39	2441	11.60	12.50	1.230	76.80	1.085	0.01	0.179	0.239
	Bluetooth	DH5 1Mbps	Right Side	5mm	Ant 3	Hotspot	39	2441	11.60	12.50	1.230	76.80	1.085	0.11	0.045	0.060
	Bluetooth	DH5 1Mbps	Top Side	5mm	Ant 3	Hotspot	39	2441	11.60	12.50	1.230	76.80	1.085	0.14	0.040	0.053
68	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+6	Hotspot	11	2462	16.40	18.00	1.445	100.00	1.000	0.01	0.035	0.051
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+6	Hotspot	11	2462	16.40	18.00	1.445	100.00	1.000	0.06	0.273	0.395
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 3+6	Hotspot	11	2462	16.40	18.00	1.445	100.00	1.000	-0.11	0.320	0.463
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 3+6	Hotspot	11	2462	16.40	18.00	1.445	100.00	1.000	0.12	0.083	0.120
69	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4+6	Hotspot	42	5210	11.92	13.50	1.439	100.00	1.000	-0.01	0.144	0.207
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	Hotspot	42	5210	11.92	13.50	1.439	100.00	1.000	0.15	0.177	0.255
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 4+6	Hotspot	42	5210	11.92	13.50	1.439	100.00	1.000	-0.16	0.136	0.196
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 4+6	Hotspot	42	5210	11.92	13.50	1.439	100.00	1.000	0.09	0.295	0.424
70	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4+6	Hotspot	155	5775	11.12	13.00	1.543	100.00	1.000	0.05	0.163	0.252
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	Hotspot	155	5775	11.12	13.00	1.543	100.00	1.000	0.01	0.248	0.383
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 4+6	Hotspot	155	5775	11.12	13.00	1.543	100.00	1.000	-0.03	0.275	0.424
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 4+6	Hotspot	155	5775	11.12	13.00	1.543	100.00	1.000	-0.14	0.235	0.363



16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	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																					
71	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI3	133297	680.5	22.55	24.00	1.396	-	-	-0.07	0.459	0.641
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI3	133297	680.5	22.55	24.00	1.396	-	-	-0.03	0.849	1.186
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	ECI3	133297	680.5	21.62	23.00	1.374	-	-	0.15	0.405	0.556
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI3	133297	680.5	21.62	23.00	1.374	-	-	0.14	0.732	1.006
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	ECI3	133297	680.5	21.55	23.00	1.396	-	-	-0.06	0.738	1.031
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI3	133297	680.5	22.57	24.00	1.390	-	-	-0.08	0.194	0.270
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	133297	680.5	22.57	24.00	1.390	-	-	-0.09	0.572	0.795
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI3	133297	680.5	21.52	23.00	1.406	-	-	-0.12	0.189	0.266
72	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI3	133297	680.5	21.52	23.00	1.406	-	-	-0.18	0.540	0.759
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI3	23095	707.5	22.50	24.00	1.413	-	-	-0.06	0.476	0.672
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI3	23095	707.5	22.50	24.00	1.413	-	-	0.03	0.741	1.047
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	ECI3	23095	707.5	21.42	23.00	1.439	-	-	0.16	0.454	0.653
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	ECI3	23095	707.5	21.42	23.00	1.439	-	-	-0.07	0.724	1.042
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI3	23095	707.5	21.40	23.00	1.445	-	-	-0.09	0.711	1.028
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI3	23095	707.5	22.35	24.00	1.462	-	-	0.03	0.172	0.251
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	23095	707.5	22.35	24.00	1.462	-	-	-0.05	0.555	0.812
73	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	ECI3	23095	707.5	21.28	23.00	1.486	-	-	-0.09	0.159	0.236
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	ECI3	23095	707.5	21.28	23.00	1.486	-	-	-0.03	0.497	0.739
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI3	23095	707.5	21.25	23.00	1.496	-	-	-0.13	0.498	0.745
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI3	23230	782	22.44	24.00	1.432	-	-	0.11	0.504	0.722
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI3	23230	782	22.44	24.00	1.432	-	-	-0.14	0.807	1.156
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	ECI3	23230	782	21.38	23.00	1.452	-	-	0.19	0.411	0.597
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	ECI3	23230	782	21.38	23.00	1.452	-	-	-0.06	0.723	1.050
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI3	23230	782	21.33	23.00	1.469	-	-	-0.08	0.749	1.100
74	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI3	23230	782	20.16	21.50	1.361	-	-	0	0.201	0.274
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	23230	782	20.16	21.50	1.361	-	-	-0.01	0.514	0.700
	LTE Band 13	10M	QPSK	1	0	-	Front	19mm	Ant 1	-	ECI4	23230	782	22.47	24.00	1.422	-	-	-0.16	0.157	0.223
	LTE Band 13	10M	QPSK	1	0	-	Back	22mm	Ant 1	-	ECI4	23230	782	22.47	24.00	1.422	-	-	-0.04	0.115	0.164
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	ECI3	23230	782	20.03	21.50	1.403	-	-	-0.05	0.179	0.251
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	ECI3	23230	782	20.03	21.50	1.403	-	-	0.09	0.474	0.665
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI3	23330	793	22.22	24.00	1.507	-	-	0.09	0.598	0.901
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI3	23330	793	22.22	24.00	1.507	-	-	-0.1	0.835	1.258
75	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	ECI3	23330	793	22.22	24.00	1.507	-	-	-0.1	0.748	1.127
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	ECI3	23330	793	21.14	23.00	1.535	-	-	0.19	0.544	0.835
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	ECI3	23330	793	21.14	23.00	1.535	-	-	0.15	0.792	1.215
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI3	23330	793	21.04	23.00	1.570	-	-	-0.14	0.521	0.818
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI3	23330	793	21.04	23.00	1.570	-	-	-0.14	0.776	1.219
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI3	23330	793	19.64	21.00	1.368	-	-	0.06	0.264	0.361
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	23330	793	19.64	21.00	1.368	-	-	-0.03	0.620	0.848
	LTE Band 14	10M	QPSK	1	0	-	Front	19mm	Ant 1	-	ECI3	23330	793	22.45	24.00	1.429	-	-	0.06	0.154	0.220
75	LTE Band 14	10M	QPSK	1	0	-	Back	22mm	Ant 1	-	ECI3	23330	793	22.45	24.00	1.429	-	-	-0.03	0.116	0.166
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	ECI3	23330	793	19.61	21.00	1.377	-	-	-0.14	0.257	0.354
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	ECI3	23330	793	19.61	21.00	1.377	-	-	0.18	0.582	0.802
	FR1 n71	35M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	ECI3	136100	680.5	22.32	24.00	1.472	-	-	0.15	0.399	0.587
	FR1 n71	35M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	ECI3	136100	680.5	22.32	24.00	1.472	-	-	0.05	0.661	0.973
	FR1 n71	35M	QPSK	90	45	DFT-15	Front	5mm	Ant 0	-	ECI3	136100	680.5	22.21	24.00	1.510	-	-	-0.17	0.338	0.510
	FR1 n71	35M	QPSK	90	45	DFT-15	Back	5mm	Ant 0	-	ECI3	136100	680.5	22.21	24.00	1.510	-	-	0.11	0.539	0.814
	FR1 n71	35M	QPSK	180	0	DFT-15	Back	5mm	Ant 0	-	ECI3	136100	680.5	21.06	23.00	1.563	-	-	0.02	0.457	0.714
75	FR1 n71	35M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	ECI3	136100	680.5	22.33	24.00	1.469	-	-	-0.08	0.176	0.259
	FR1 n71	35M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	ECI3	136100	680.5	22.33	24.00	1.469	-	-	-0.13	0.536	0.787



FCC SAR Test Report

Report No. : FA612609

	FR1 n71	35M	QPSK	90	45	DFT-15	Front	5mm	Ant 1	-	ECI3	136100	680.5	22.28	24.00	1.486	-	-	0.16	0.152	0.226
	FR1 n71	35M	QPSK	90	45	DFT-15	Back	5mm	Ant 1	-	ECI3	136100	680.5	22.28	24.00	1.486	-	-	0.02	0.332	0.493
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	ECI3	141500	707.5	22.52	24.00	1.406	-	-	-0.03	0.389	0.547
76	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	ECI3	141500	707.5	22.52	24.00	1.406	-	-	0.05	0.634	0.891
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	-	ECI3	141500	707.5	22.38	24.00	1.452	-	-	0.18	0.343	0.498
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	-	ECI3	141500	707.5	22.38	24.00	1.452	-	-	0.02	0.599	0.870
	FR1 n12	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 0	-	ECI3	141500	707.5	21.43	23.00	1.435	-	-	0.15	0.495	0.711
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	ECI3	141500	707.5	22.32	24.00	1.472	-	-	-0.13	0.219	0.322
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	ECI3	141500	707.5	22.32	24.00	1.472	-	-	-0.1	0.470	0.692
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	-	ECI3	141500	707.5	22.18	24.00	1.521	-	-	0.03	0.176	0.268
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	-	ECI3	141500	707.5	22.18	24.00	1.521	-	-	-0.02	0.502	0.763
	FR1 n13	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	ECI3	156400	782	22.48	24.00	1.419	-	-	-0.04	0.398	0.565
77	FR1 n13	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	ECI3	156400	782	22.48	24.00	1.419	-	-	0.16	0.742	1.053
	FR1 n13	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 0	-	ECI3	156400	782	22.15	24.00	1.531	-	-	0.12	0.375	0.574
	FR1 n13	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 0	-	ECI3	156400	782	22.15	24.00	1.531	-	-	0.11	0.630	0.965
	FR1 n13	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 0	-	ECI3	156400	782	21.17	23.00	1.524	-	-	0	0.522	0.796
	FR1 n13	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	ECI3	156400	782	20.92	22.50	1.439	-	-	-0.13	0.257	0.370
	FR1 n13	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	ECI3	156400	782	20.92	22.50	1.439	-	-	0.04	0.494	0.711
	FR1 n13	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	-	ECI3	156400	782	20.91	22.50	1.442	-	-	-0.08	0.225	0.324
	FR1 n13	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	-	ECI3	156400	782	20.91	22.50	1.442	-	-	-0.16	0.567	0.818
	FR1 n13	10M	QPSK	25	14	DFT-15	Front	19mm	Ant 1	-	ECI4	156400	782	22.16	24.00	1.528	-	-	0.05	0.147	0.225
	FR1 n13	10M	QPSK	25	14	DFT-15	Back	22mm	Ant 1	-	ECI4	156400	782	22.16	24.00	1.528	-	-	-0.19	0.143	0.218
	FR1 n13	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 1	-	ECI3	156400	782	20.85	22.50	1.462	-	-	-0.04	0.403	0.589
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	ECI3	158600	793	22.32	24.00	1.472	-	-	0.05	0.422	0.621
78	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	ECI3	158600	793	22.32	24.00	1.472	-	-	-0.02	0.821	1.209
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Headset	ECI3	158600	793	22.32	24.00	1.472	-	-	-0.02	0.766	1.128
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 0	-	ECI3	158600	793	22.14	24.00	1.535	-	-	0.09	0.342	0.525
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 0	-	ECI3	158600	793	22.14	24.00	1.535	-	-	0.15	0.763	1.171
	FR1 n14	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 0	-	ECI3	158600	793	21.15	23.00	1.531	-	-	-0.13	0.682	1.044
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	ECI3	158600	793	21.37	23.00	1.455	-	-	-0.08	0.244	0.355
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	ECI3	158600	793	21.37	23.00	1.455	-	-	-0.03	0.482	0.702
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	-	ECI3	158600	793	21.33	23.00	1.469	-	-	0.17	0.233	0.342
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	-	ECI3	158600	793	21.33	23.00	1.469	-	-	0.18	0.577	0.848
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	19mm	Ant 1	-	ECI4	158600	793	22.16	24.00	1.528	-	-	-0.08	0.138	0.211
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	22mm	Ant 1	-	ECI4	158600	793	22.16	24.00	1.528	-	-	0.19	0.126	0.192
	FR1 n14	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 1	-	ECI3	158600	793	21.28	23.00	1.486	-	-	0.06	0.499	0.741
835MHz																					
	GSM850	-	-	-	-	GPRS 4TX slot	Front	5mm	Ant 0	-	ECI3	189	836.4	26.15	28.00	1.531	-	-	0.14	0.363	0.556
	GSM850	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 0	-	ECI3	189	836.4	26.15	28.00	1.531	-	-	0.13	0.680	1.041
	GSM850	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 0	-	ECI3	128	824.2	26.14	28.00	1.535	-	-	-0.02	0.730	1.120
79	GSM850	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 0	-	ECI3	251	848.8	26.01	28.00	1.581	-	-	-0.11	0.772	1.221
	GSM850	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 0	Headset	ECI3	251	848.8	26.01	28.00	1.581	-	-	-0.11	0.715	1.131
	GSM850	-	-	-	-	GPRS 4TX slot	Front	19mm	Ant 0	-	ECI4	189	836.4	28.10	29.50	1.380	-	-	-0.14	0.189	0.261
	GSM850	-	-	-	-	GPRS 4TX slot	Back	22mm	Ant 0	-	ECI4	189	836.4	28.10	29.50	1.380	-	-	-0.15	0.179	0.247
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	ECI3	4182	836.4	22.53	24.00	1.403	-	-	-0.08	0.348	0.488
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	ECI3	4182	836.4	22.53	24.00	1.403	-	-	0.08	0.575	0.807
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	ECI3	4132	826.4	22.47	24.00	1.422	-	-	0.13	0.708	1.007
80	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	ECI3	4233	846.6	22.45	24.00	1.429	-	-	-0.1	0.724	1.035
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI3	26865	831.5	22.31	24.00	1.476	-	-	0.14	0.490	0.723
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI3	26865	831.5	22.31	24.00	1.476	-	-	-0.15	0.734	1.083
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI3	26765	821.5	22.08	24.00	1.556	-	-	0.03	0.720	1.120
81	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI3	26965	841.5	22.30	24.00	1.479	-	-	-0.19	0.851	1.259



FCC SAR Test Report

Report No. : FA612609

	LTE Band 5B	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI3	20450 20549	829 838.9	22.30	24.00	1.479	-	-	0.05	0.794	1.174
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	ECI3	26965	841.5	22.30	24.00	1.479	-	-	-0.19	0.811	1.089
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	ECI3	26865	831.5	21.24	23.00	1.500	-	-	0.13	0.391	0.586
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	ECI3	26865	831.5	21.24	23.00	1.500	-	-	0.06	0.576	0.864
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	ECI3	26765	821.5	21.22	23.00	1.507	-	-	-0.09	0.704	1.061
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	ECI3	26965	841.5	21.08	23.00	1.556	-	-	-0.16	0.678	1.055
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	-	ECI3	26865	831.5	21.15	23.00	1.531	-	-	-0.12	0.638	0.977
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI3	26865	831.5	19.80	21.50	1.479	-	-	-0.18	0.138	0.204
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	26865	831.5	19.80	21.50	1.479	-	-	0.17	0.415	0.614
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	26765	821.5	19.75	21.50	1.496	-	-	-0.18	0.398	0.596
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	26965	841.5	19.72	21.50	1.507	-	-	-0.04	0.456	0.687
	LTE Band 5B	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	20450 20549	829 838.9	19.63	21.50	1.538	-	-	0.08	0.397	0.611
	LTE Band 26	15M	QPSK	1	0	-	Front	19mm	Ant 1	-	ECI4	26865	831.5	22.24	24.00	1.500	-	-	0.11	0.140	0.210
	LTE Band 26	15M	QPSK	1	0	-	Back	22mm	Ant 1	-	ECI4	26865	831.5	22.24	24.00	1.500	-	-	0.18	0.139	0.208
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	-	ECI3	26865	831.5	19.73	21.50	1.503	-	-	-0.07	0.107	0.161
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	ECI3	26865	831.5	19.73	21.50	1.503	-	-	-0.17	0.404	0.607
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	ECI3	26765	821.5	19.71	21.50	1.510	-	-	0.09	0.415	0.627
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	ECI3	26965	841.5	19.70	21.50	1.514	-	-	0	0.450	0.681
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	ECI3	166300	831.5	22.37	24.00	1.455	-	-	-0.13	0.403	0.587
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	ECI3	166300	831.5	22.37	24.00	1.455	-	-	0.16	0.647	0.942
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	ECI3	166300	831.5	22.15	24.00	1.531	-	-	-0.09	0.421	0.645
82	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	ECI3	166300	831.5	22.15	24.00	1.531	-	-	-0.08	0.687	1.052
	FR1 n26	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 0	-	ECI3	166300	831.5	21.16	23.00	1.528	-	-	-0.11	0.520	0.794
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	ECI3	166300	831.5	20.55	22.00	1.396	-	-	-0.02	0.183	0.256
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	ECI3	166300	831.5	20.55	22.00	1.396	-	-	-0.04	0.535	0.747
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	19mm	Ant 1	-	ECI4	166300	831.5	22.51	24.00	1.409	-	-	-0.16	0.115	0.162
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	ECI4	166300	831.5	22.51	24.00	1.409	-	-	-0.1	0.098	0.138
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	-	ECI3	166300	831.5	20.50	22.00	1.413	-	-	-0.16	0.178	0.251
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	-	ECI3	166300	831.5	20.50	22.00	1.413	-	-	-0.1	0.470	0.664
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	ECI3	1413	1732.6	21.15	22.50	1.365	-	-	0.09	0.823	1.123
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	ECI3	1413	1732.6	21.15	22.50	1.365	-	-	0.12	0.826	1.127
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	ECI3	1312	1712.4	21.10	22.50	1.380	-	-	-0.07	0.751	1.037
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	ECI3	1513	1752.6	21.08	22.50	1.387	-	-	0.1	0.807	1.119
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	ECI3	1312	1712.4	21.10	22.50	1.380	-	-	0.01	0.768	1.060
83	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	ECI3	1513	1752.6	21.08	22.50	1.387	-	-	-0.15	0.896	1.243
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	Headset	ECI3	1513	1752.6	21.08	22.50	1.387	-	-	-0.15	0.769	1.066
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	19mm	Ant 2	-	ECI4	1413	1732.6	22.83	24.00	1.309	-	-	-0.13	0.311	0.407
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	22mm	Ant 2	-	ECI4	1413	1732.6	22.83	24.00	1.309	-	-	-0.19	0.206	0.270
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	132322	1745	20.28	21.50	1.324	-	-	0.14	0.738	0.977
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	ECI3	132322	1745	20.28	21.50	1.324	-	-	0.16	0.735	0.973
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	132072	1720	20.23	21.50	1.340	-	-	-0.06	0.659	0.883
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	132572	1770	20.17	21.50	1.358	-	-	0.03	0.754	1.024
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	ECI3	132072	1720	20.23	21.50	1.340	-	-	0	0.664	0.890
84	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	ECI3	132572	1770	20.17	21.50	1.358	-	-	0.06	0.782	1.062
	LTE Band 66	20M	QPSK	1	0	-	Front	19mm	Ant 2	-	ECI4	132322	1745	22.82	24.00	1.312	-	-	0.14	0.365	0.479
	LTE Band 66	20M	QPSK	1	0	-	Back	22mm	Ant 2	-	ECI4	132322	1745	22.82	24.00	1.312	-	-	0.17	0.248	0.325
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	ECI3	132322	1745	20.25	21.50	1.334	-	-	-0.01	0.725	0.967
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	ECI3	132322	1745	20.25	21.50	1.334	-	-	-0.07	0.754	1.005
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	ECI3	132072	1720	20.18	21.50	1.355	-	-	0	0.685	0.928
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	ECI3	132572	1770	20.16	21.50	1.361	-	-	-0.17	0.736	1.002
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	ECI3	132072	1720	20.18	21.50	1.355	-	-	0.02	0.699	0.947
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	ECI3	132572	1770	20.16	21.50	1.361	-	-	0.05	0.750	1.021



FCC SAR Test Report

Report No. : FA612609

	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	ECI3	132322	1745	20.26	21.50	1.330	-	-	-0.16	0.745	0.991
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	ECI3	132322	1745	20.26	21.50	1.330	-	-	-0.07	0.754	1.003
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 9	-	ECI3	132322	1745	19.37	20.50	1.297	-	-	-0.19	0.389	0.505
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 9	-	ECI3	132322	1745	19.37	20.50	1.297	-	-	0.13	0.625	0.811
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 9		ECI3	132072	1720	19.35	20.50	1.303	-	-	0.01	0.678	0.884
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 9		ECI3	132572	1770	19.20	20.50	1.349	-	-	-0.12	0.602	0.812
	LTE Band 66	20M	QPSK	1	0	-	Front	19mm	Ant 9	-	ECI4	132322	1745	22.95	24.00	1.274	-	-	0.06	0.206	0.262
	LTE Band 66	20M	QPSK	1	0	-	Back	22mm	Ant 9	-	ECI4	132322	1745	22.95	24.00	1.274	-	-	-0.03	0.255	0.325
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 9	-	ECI3	132322	1745	19.20	20.50	1.349	-	-	0.15	0.383	0.517
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	ECI3	132322	1745	19.20	20.50	1.349	-	-	-0.15	0.607	0.819
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	ECI3	132072	1720	19.18	20.50	1.355	-	-	-0.09	0.628	0.851
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	ECI3	132572	1770	19.12	20.50	1.374	-	-	-0.04	0.564	0.775
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 9	-	ECI3	132322	1745	19.17	20.50	1.358	-	-	-0.01	0.542	0.736
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI3	132322	1745	17.66	19.00	1.361	-	-	0.11	0.392	0.534
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	132322	1745	17.66	19.00	1.361	-	-	0.05	0.576	0.784
	LTE Band 66	20M	QPSK	1	0	-	Front	19mm	Ant 1	-	ECI4	132322	1745	22.81	24.00	1.315	-	-	0.19	0.352	0.463
	LTE Band 66	20M	QPSK	1	0	-	Back	22mm	Ant 1	-	ECI4	132322	1745	22.81	24.00	1.315	-	-	0.04	0.393	0.517
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI3	132322	1745	17.65	19.00	1.365	-	-	0.17	0.407	0.555
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI3	132322	1745	17.65	19.00	1.365	-	-	0.19	0.544	0.742
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	ECI3	349000	1745	19.83	21.50	1.469	-	-	-0.07	0.548	0.805
85	FR1 n66	45M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	-	ECI3	349000	1745	19.83	21.50	1.469	-	-	0.17	0.695	1.021
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	19mm	Ant 2	-	ECI4	349000	1745	22.34	24.00	1.466	-	-	0.09	0.323	0.473
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	22mm	Ant 2	-	ECI4	349000	1745	22.34	24.00	1.466	-	-	-0.1	0.217	0.318
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	5mm	Ant 2	-	ECI3	349000	1745	19.82	21.50	1.472	-	-	0.12	0.604	0.889
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	5mm	Ant 2	-	ECI3	349000	1745	19.82	21.50	1.472	-	-	-0.08	0.644	0.948
	FR1 n66	45M	QPSK	240	0	DFT-15	Front	5mm	Ant 2	-	ECI3	349000	1745	19.81	21.50	1.476	-	-	-0.17	0.634	0.936
	FR1 n66	45M	QPSK	240	0	DFT-15	Back	5mm	Ant 2	-	ECI3	349000	1745	19.81	21.50	1.476	-	-	0.01	0.614	0.906
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	5mm	Ant 9	-	ECI3	349000	1745	18.50	20.00	1.413	-	-	-0.15	0.353	0.499
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	5mm	Ant 9	-	ECI3	349000	1745	18.50	20.00	1.413	-	-	-0.04	0.523	0.739
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	19mm	Ant 9	-	ECI4	349000	1745	22.52	24.00	1.406	-	-	-0.06	0.132	0.186
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	22mm	Ant 9	-	ECI4	349000	1745	22.52	24.00	1.406	-	-	0.18	0.151	0.212
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	5mm	Ant 9	-	ECI3	349000	1745	18.49	20.00	1.416	-	-	0.11	0.347	0.491
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	5mm	Ant 9	-	ECI3	349000	1745	18.49	20.00	1.416	-	-	-0.17	0.496	0.702
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	ECI3	349000	1745	17.49	19.00	1.416	-	-	-0.02	0.385	0.545
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	ECI3	349000	1745	17.49	19.00	1.416	-	-	0.12	0.537	0.760
	FR1 n66	45M	QPSK	1	1	DFT-15	Front	19mm	Ant 1	-	ECI4	349000	1745	22.44	24.00	1.432	-	-	0.14	0.295	0.422
	FR1 n66	45M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	ECI4	349000	1745	22.44	24.00	1.432	-	-	0.18	0.267	0.382
	FR1 n66	45M	QPSK	120	60	DFT-15	Front	5mm	Ant 1	-	ECI3	349000	1745	17.48	19.00	1.419	-	-	0.03	0.362	0.514
	FR1 n66	45M	QPSK	120	60	DFT-15	Back	5mm	Ant 1	-	ECI3	349000	1745	17.48	19.00	1.419	-	-	0	0.479	0.680
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	ECI3	340500	1702.5	21.52	22.50	1.253	-	-	-0.12	0.848	1.063
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	-	ECI3	340500	1702.5	21.52	22.50	1.253	-	-	0.14	0.909	1.139
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 2	-	ECI3	340500	1702.5	21.47	22.50	1.268	-	-	-0.17	0.821	1.041
86	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 2	-	ECI3	340500	1702.5	21.47	22.50	1.268	-	-	0.04	0.916	1.161
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	19mm	Ant 2	-	ECI4	340500	1702.5	22.64	24.00	1.368	-	-	-0.02	0.348	0.476
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	22mm	Ant 2	-	ECI4	340500	1702.5	22.64	24.00	1.368	-	-	0.16	0.231	0.316
	FR1 n70	15M	QPSK	75	0	DFT-15	Front	5mm	Ant 2	-	ECI3	340500	1702.5	21.42	22.50	1.282	-	-	-0.1	0.771	0.989
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 2	-	ECI3	340500	1702.5	21.42	22.50	1.282	-	-	-0.18	0.774	0.993
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 9	-	ECI3	340500	1702.5	18.06	19.00	1.242	-	-	-0.14	0.422	0.524
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 9	-	ECI3	340500	1702.5	18.06	19.00	1.242	-	-	-0.05	0.615	0.764
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 9	-	ECI3	340500	1702.5	18.05	19.00	1.245	-	-	-0.1	0.386	0.480
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 9	-	ECI3	340500	1702.5	18.05	19.00	1.245	-	-	0.15	0.636	0.792
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	19mm	Ant 9	-	ECI4	340500	1702.5	22.84	24.00	1.306	-	-	-0.02	0.132	0.172
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	22mm	Ant 9	-	ECI4	340500	1702.5	22.84	24.00	1.306	-	-	0.08	0.130	0.170
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	ECI3	340500	1702.5	18.53	19.50	1.250	-	-	-0.11	0.424	0.530
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	ECI3	340500	1702.5	18.53	19.50	1.250	-	-	0.16	0.581	0.726
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	-	ECI3	340500	1702.5	18.51	19.50	1.256	-	-	-0.08	0.394	0.495



FCC SAR Test Report

Report No. : FA612609

	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	-	ECI3	340500	1702.5	18.51	19.50	1.256	-	-	0.14	0.557	0.700
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	19mm	Ant 1	-	ECI4	340500	1702.5	22.67	24.00	1.358	-	-	0.02	0.287	0.390
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	22mm	Ant 1	-	ECI4	340500	1702.5	22.67	24.00	1.358	-	-	0.06	0.245	0.333
1900MHz																					
	GSM1900	-	-	-	-	GPRS 4TX slot	Front	5mm	Ant 2	-	ECI3	661	1880	24.16	25.00	1.213	-	-	0.05	0.801	0.972
	GSM1900	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 2	-	ECI3	661	1880	24.16	25.00	1.213	-	-	-0.14	0.700	0.849
	GSM1900	-	-	-	-	GPRS 4TX slot	Front	5mm	Ant 2	-	ECI3	512	1850.2	24.10	25.00	1.230	-	-	-0.11	0.771	0.949
87	GSM1900	-	-	-	-	GPRS 4TX slot	Front	5mm	Ant 2	-	ECI3	810	1909.8	23.96	25.00	1.271	-	-	-0.17	0.830	1.055
	GSM1900	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 2	-	ECI3	512	1850.2	24.10	25.00	1.230	-	-	0.08	0.701	0.862
	GSM1900	-	-	-	-	GPRS 4TX slot	Back	5mm	Ant 2	-	ECI3	810	1909.8	23.96	25.00	1.271	-	-	0.04	0.760	0.966
	GSM1900	-	-	-	-	GPRS 4TX slot	Front	19mm	Ant 2	-	ECI4	661	1880	25.55	26.50	1.245	-	-	0.09	0.388	0.483
	GSM1900	-	-	-	-	GPRS 4TX slot	Back	22mm	Ant 2	-	ECI4	661	1880	25.55	26.50	1.245	-	-	-0.05	0.272	0.339
88	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	ECI3	9400	1880	20.67	22.00	1.358	-	-	0.15	0.919	1.248
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	ECI3	9400	1880	20.67	22.00	1.358	-	-	0.15	0.902	1.225
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	ECI3	9262	1852.4	20.65	22.00	1.365	-	-	0.04	0.892	1.217
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	-	ECI3	9538	1907.6	20.65	22.00	1.365	-	-	0.01	0.901	1.229
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	ECI3	9262	1852.4	20.65	22.00	1.365	-	-	0.11	0.836	1.141
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	-	ECI3	9538	1907.6	20.65	22.00	1.365	-	-	-0.07	0.873	1.191
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 2	Headset	ECI3	9400	1880	20.67	22.00	1.358	-	-	0.15	0.805	1.093
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	19mm	Ant 2	-	ECI4	9400	1880	22.73	24.00	1.340	-	-	0.1	0.450	0.603
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	22mm	Ant 2	-	ECI4	9400	1880	22.73	24.00	1.340	-	-	-0.06	0.308	0.413
89	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	26340	1880	20.57	22.00	1.390	-	-	-0.13	0.920	1.279
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	ECI3	26340	1880	20.57	22.00	1.390	-	-	0	0.897	1.247
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	26140	1860	20.43	22.00	1.435	-	-	-0.1	0.882	1.266
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	26590	1905	20.31	22.00	1.476	-	-	-0.15	0.861	1.271
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	ECI3	26140	1860	20.43	22.00	1.435	-	-	-0.07	0.837	1.202
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	ECI3	26590	1905	20.31	22.00	1.476	-	-	-0.1	0.821	1.212
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 2	Headset	ECI3	26340	1880	20.57	22.00	1.390	-	-	-0.13	0.824	1.145
	LTE Band 25	20M	QPSK	1	0	-	Front	19mm	Ant 2	-	ECI4	26340	1880	22.64	24.00	1.368	-	-	0.1	0.245	0.335
	LTE Band 25	20M	QPSK	1	0	-	Back	22mm	Ant 2	-	ECI4	26340	1880	22.64	24.00	1.368	-	-	-0.18	0.181	0.248
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	ECI3	26340	1880	20.34	22.00	1.466	-	-	-0.06	0.686	1.005
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	ECI3	26340	1880	20.34	22.00	1.466	-	-	0.02	0.675	0.989
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	ECI3	26140	1860	20.32	22.00	1.472	-	-	0.14	0.688	1.013
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	ECI3	26590	1905	20.26	22.00	1.493	-	-	0.11	0.668	0.997
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	ECI3	26140	1860	20.32	22.00	1.472	-	-	-0.01	0.639	0.941
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	ECI3	26590	1905	20.26	22.00	1.493	-	-	-0.05	0.640	0.955
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	ECI3	26340	1880	20.33	22.00	1.469	-	-	-0.19	0.715	1.050
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	ECI3	26340	1880	20.33	22.00	1.469	-	-	-0.09	0.630	0.925
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 9	-	ECI3	26340	1880	17.65	19.00	1.365	-	-	-0.15	0.397	0.542
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 9	-	ECI3	26340	1880	17.65	19.00	1.365	-	-	-0.07	0.624	0.851
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 9	-	ECI3	26140	1860	17.49	19.00	1.416	-	-	-0.19	0.595	0.842
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 9	-	ECI3	26590	1905	17.60	19.00	1.380	-	-	0.18	0.640	0.883
	LTE Band 25	20M	QPSK	1	0	-	Front	19mm	Ant 9	-	ECI4	26340	1880	22.89	24.00	1.291	-	-	-0.02	0.219	0.283
	LTE Band 25	20M	QPSK	1	0	-	Back	22mm	Ant 9	-	ECI4	26340	1880	22.89	24.00	1.291	-	-	0.1	0.273	0.353
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 9	-	ECI3	26340	1880	17.49	19.00	1.416	-	-	-0.04	0.391	0.554
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	ECI3	26340	1880	17.49	19.00	1.416	-	-	-0.06	0.565	0.800
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	ECI3	26140	1860	17.47	19.00	1.422	-	-	-0.04	0.559	0.795
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	ECI3	26590	1905	17.48	19.00	1.419	-	-	0.19	0.590	0.837
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 9	-	ECI3	26340	1880	17.50	19.00	1.413	-	-	0.17	0.556	0.785
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI3	26340	1880	15.79	17.50	1.483	-	-	0.01	0.285	0.423
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	26340	1880	15.79	17.50	1.483	-	-	-0.05	0.477	0.707



FCC SAR Test Report

Report No. : FA612609

	LTE Band 25	20M	QPSK	1	0	-	Front	19mm	Ant 1	-	ECI4	26340	1880	22.48	24.00	1.419	-	-	0.12	0.186	0.264
	LTE Band 25	20M	QPSK	1	0	-	Back	22mm	Ant 1	-	ECI4	26340	1880	22.48	24.00	1.419	-	-	-0.04	0.190	0.270
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI3	26340	1880	15.75	17.50	1.496	-	-	-0.17	0.256	0.383
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI3	26340	1880	15.75	17.50	1.496	-	-	0.18	0.414	0.619
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	ECI3	376500	1882.5	20.41	22.00	1.442	-	-	-0.05	0.778	1.122
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	-	ECI3	376500	1882.5	20.41	22.00	1.442	-	-	0.07	0.706	1.018
90	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 2	-	ECI3	376500	1882.5	20.38	22.00	1.452	-	-	0.03	0.774	1.124
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 2	-	ECI3	376500	1882.5	20.38	22.00	1.452	-	-	-0.14	0.699	1.015
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	19mm	Ant 2	-	ECI4	376500	1882.5	22.28	24.00	1.486	-	-	-0.14	0.281	0.418
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	22mm	Ant 2	-	ECI4	376500	1882.5	22.28	24.00	1.486	-	-	0.15	0.198	0.294
	FR1 n25	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 2	-	ECI3	376500	1882.5	20.32	22.00	1.472	-	-	0.01	0.668	0.984
	FR1 n25	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 2	-	ECI3	376500	1882.5	20.32	22.00	1.472	-	-	0.13	0.579	0.852
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 9	-	ECI3	376500	1882.5	17.51	19.00	1.409	-	-	-0.04	0.331	0.466
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 9	-	ECI3	376500	1882.5	17.51	19.00	1.409	-	-	0.13	0.534	0.753
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	19mm	Ant 9	-	ECI4	376500	1882.5	22.47	24.00	1.422	-	-	0.1	0.162	0.230
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	22mm	Ant 9	-	ECI4	376500	1882.5	22.47	24.00	1.422	-	-	0.01	0.159	0.226
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 9	-	ECI3	376500	1882.5	17.50	19.00	1.413	-	-	-0.17	0.318	0.449
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 9	-	ECI3	376500	1882.5	17.50	19.00	1.413	-	-	-0.03	0.507	0.716
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	ECI3	376500	1882.5	17.34	19.00	1.466	-	-	0.09	0.360	0.528
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	ECI3	376500	1882.5	17.34	19.00	1.466	-	-	-0.19	0.553	0.810
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	19mm	Ant 1	-	ECI4	376500	1882.5	22.34	24.00	1.466	-	-	-0.02	0.187	0.274
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	ECI4	376500	1882.5	22.34	24.00	1.466	-	-	-0.16	0.164	0.240
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	-	ECI3	376500	1882.5	17.30	19.00	1.479	-	-	0.16	0.226	0.334
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	-	ECI3	376500	1882.5	17.30	19.00	1.479	-	-	0.18	0.504	0.745
	FR1 n25	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 1	-	ECI3	376500	1882.5	17.25	19.00	1.496	-	-	0.19	0.324	0.485
2300MHz																					
91	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	27710	2310	19.28	21.00	1.486	-	-	0.15	0.754	1.120
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 2	-	ECI3	27710	2310	19.28	21.00	1.486	-	-	-0.09	0.666	0.990
	LTE Band 30	10M	QPSK	1	0	-	Front	19mm	Ant 2	-	ECI4	27710	2310	22.22	24.00	1.507	-	-	-0.09	0.307	0.463
	LTE Band 30	10M	QPSK	1	0	-	Back	22mm	Ant 2	-	ECI4	27710	2310	22.22	24.00	1.507	-	-	0.02	0.226	0.340
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 2	-	ECI3	27710	2310	19.15	21.00	1.531	-	-	0.01	0.693	1.061
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 2	-	ECI3	27710	2310	19.15	21.00	1.531	-	-	0.01	0.602	0.922
	LTE Band 30	10M	QPSK	50	0	-	Front	5mm	Ant 2	-	ECI3	27710	2310	19.07	21.00	1.560	-	-	-0.01	0.639	0.997
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 2	-	ECI3	27710	2310	19.07	21.00	1.560	-	-	0.18	0.586	0.914
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI3	27710	2310	14.01	15.50	1.409	-	-	0.05	0.236	0.333
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	27710	2310	14.01	15.50	1.409	-	-	-0.19	0.579	0.816
	LTE Band 30	10M	QPSK	1	0	-	Front	19mm	Ant 1	-	ECI4	27710	2310	22.49	24.00	1.416	-	-	0.18	0.301	0.426
	LTE Band 30	10M	QPSK	1	0	-	Back	22mm	Ant 1	-	ECI4	27710	2310	22.49	24.00	1.416	-	-	0.13	0.302	0.428
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	ECI3	27710	2310	13.91	15.50	1.442	-	-	0.16	0.260	0.375
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	ECI3	27710	2310	13.91	15.50	1.442	-	-	0	0.500	0.721
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI3	27710	2310	13.85	15.50	1.462	-	-	0.05	0.445	0.651
92	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	ECI3	462000	2310	19.31	21.00	1.476	-	-	0.12	0.811	1.197
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	-	ECI3	462000	2310	19.31	21.00	1.476	-	-	0.13	0.692	1.021
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	19mm	Ant 2	-	ECI4	462000	2310	22.32	24.00	1.472	-	-	-0.09	0.308	0.453
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	22mm	Ant 2	-	ECI4	462000	2310	22.32	24.00	1.472	-	-	0.13	0.236	0.347
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 2	-	ECI3	462000	2310	19.24	21.00	1.500	-	-	0.15	0.767	1.150
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 2	-	ECI3	462000	2310	19.24	21.00	1.500	-	-	-0.13	0.659	0.988
	FR1 n30	10M	QPSK	50	0	DFT-15	Front	5mm	Ant 2	-	ECI3	462000	2310	19.20	21.00	1.514	-	-	0	0.702	1.063
	FR1 n30	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 2	-	ECI3	462000	2310	19.20	21.00	1.514	-	-	-0.05	0.617	0.934
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	ECI3	462000	2310	14.83	16.50	1.469	-	-	-0.06	0.286	0.420
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	ECI3	462000	2310	14.83	16.50	1.469	-	-	0.18	0.582	0.855
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	19mm	Ant 1	-	ECI4	462000	2310	22.36	24.00	1.459	-	-	-0.1	0.213	0.311
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	ECI4	462000	2310	22.36	24.00	1.459	-	-	-0.16	0.167	0.244
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	-	ECI3	462000	2310	14.81	16.50	1.476	-	-	-0.18	0.278	0.410
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	-	ECI3	462000	2310	14.81	16.50	1.476	-	-	-0.06	0.524	0.773
	FR1 n30	10M	QPSK	50	0	DFT-15	Front	5mm	Ant 1	-	ECI3	462000	2310	14.78	16.50	1.486	-	-	-0.12	0.246	0.366



FCC SAR Test Report

Report No. : FA612609

	FR1 n30	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 1	-	ECI3	462000	2310	14.78	16.50	1.486	-	-	0.19	0.472	0.701
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	21100	2535	20.27	21.50	1.327	-	-	0.04	0.892	1.184
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	ECI3	21100	2535	20.27	21.50	1.327	-	-	-0.02	0.764	1.014
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	20850	2510	20.26	21.50	1.330	-	-	0.09	0.727	0.967
93	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	21350	2560	20.25	21.50	1.334	-	-	0.12	0.961	1.282
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	ECI3	20850	2510	20.26	21.50	1.330	-	-	-0.09	0.711	0.946
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 2	-	ECI3	21350	2560	20.25	21.50	1.334	-	-	0.17	0.862	1.149
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 2	Headset	ECI3	21350	2560	20.25	21.50	1.334	-	-	0.12	0.846	1.128
	LTE Band 7	20M	QPSK	1	0	-	Front	19mm	Ant 2	-	ECI4	21100	2535	22.82	24.00	1.312	-	-	0.19	0.460	0.604
	LTE Band 7	20M	QPSK	1	0	-	Back	22mm	Ant 2	-	ECI4	21100	2535	22.82	24.00	1.312	-	-	-0.08	0.335	0.440
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	ECI3	21100	2535	20.26	21.50	1.330	-	-	-0.14	0.745	0.991
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	ECI3	21100	2535	20.26	21.50	1.330	-	-	0.12	0.689	0.917
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	ECI3	20850	2510	20.22	21.50	1.343	-	-	-0.19	0.661	0.888
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 2	-	ECI3	21350	2560	20.24	21.50	1.337	-	-	-0.12	0.835	1.116
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	ECI3	20850	2510	20.22	21.50	1.343	-	-	0.05	0.622	0.835
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 2	-	ECI3	21350	2560	20.24	21.50	1.337	-	-	-0.16	0.817	1.092
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	ECI3	21100	2535	20.25	21.50	1.334	-	-	-0.19	0.832	1.109
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	ECI3	21100	2535	20.25	21.50	1.334	-	-	-0.19	0.732	0.976
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 9	-	ECI3	21100	2535	15.53	16.50	1.250	-	-	-0.15	0.302	0.378
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 9	-	ECI3	21100	2535	15.53	16.50	1.250	-	-	-0.06	0.566	0.708
	LTE Band 7	20M	QPSK	1	0	-	Front	19mm	Ant 9	-	ECI4	21100	2535	22.98	24.00	1.265	-	-	0.19	0.224	0.283
	LTE Band 7	20M	QPSK	1	0	-	Back	22mm	Ant 9	-	ECI4	21100	2535	22.98	24.00	1.265	-	-	-0.01	0.235	0.297
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 9	-	ECI3	21100	2535	15.52	16.50	1.253	-	-	-0.07	0.281	0.352
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 9	-	ECI3	21100	2535	15.52	16.50	1.253	-	-	0.17	0.543	0.680
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI3	21100	2535	14.43	15.50	1.279	-	-	0.03	0.347	0.444
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	21100	2535	14.43	15.50	1.279	-	-	0.17	0.543	0.695
	LTE Band 7	20M	QPSK	1	0	-	Front	19mm	Ant 1	-	ECI4	21100	2535	22.68	24.00	1.355	-	-	-0.1	0.340	0.461
	LTE Band 7	20M	QPSK	1	0	-	Back	22mm	Ant 1	-	ECI4	21100	2535	22.68	24.00	1.355	-	-	-0.1	0.321	0.435
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI3	21100	2535	14.41	15.50	1.285	-	-	0.03	0.314	0.404
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI3	21100	2535	14.41	15.50	1.285	-	-	0.11	0.447	0.575
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	-	ECI3	41490	2680	22.38	23.50	1.294	62.9	1.006	-0.03	0.819	1.066
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	ECI3	41490	2680	22.38	23.50	1.294	62.9	1.006	0.06	0.682	0.888
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	-	ECI3	39750	2506	22.33	23.50	1.309	62.9	1.006	-0.05	0.580	0.764
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	-	ECI3	40185	2549.5	21.89	23.50	1.449	62.9	1.006	-0.13	0.698	1.017
94	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	-	ECI3	40620	2593	21.88	23.50	1.452	62.9	1.006	0	0.842	1.230
	LTE Band 41C	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	41490 41292	2680 2660.2	22.23	23.50	1.340	62.9	1.006	0.07	0.793	1.069
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	-	ECI3	41055	2636.5	22.25	23.50	1.334	62.9	1.006	0.06	0.809	1.085
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	ECI3	39750	2506	22.33	23.50	1.309	62.9	1.006	0.17	0.498	0.656
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	ECI3	40185	2549.5	21.89	23.50	1.449	62.9	1.006	-0.16	0.562	0.819
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	ECI3	40620	2593	21.88	23.50	1.452	62.9	1.006	0.08	0.733	1.071
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 2	-	ECI3	41055	2636.5	22.25	23.50	1.334	62.9	1.006	0.13	0.715	0.959
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Front	5mm	Ant 2	-	ECI3	40620	2593	23.54	25.10	1.432	42.9	1.009	0.02	0.761	1.100
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Front	5mm	Ant 2	-	ECI3	41490 41292	2680 2660.2	24.07	25.10	1.268	42.9	1.009	0.06	0.675	0.863
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 2	Headset	ECI3	40620	2593	21.88	23.50	1.452	62.9	1.006	0	0.751	1.097
	LTE Band 41	20M	QPSK	1	49	-	Front	19mm	Ant 2	-	ECI4	41490	2680	22.95	24.00	1.274	62.9	1.006	-0.03	0.237	0.304
	LTE Band 41	20M	QPSK	1	49	-	Back	22mm	Ant 2	-	ECI4	41490	2680	22.95	24.00	1.274	62.9	1.006	0.17	0.171	0.219
	LTE Band 41	20M	QPSK	50	54	-	Front	5mm	Ant 2	-	ECI3	41490	2535	21.95	23.00	1.274	62.9	1.006	0.19	0.780	0.999
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 2	-	ECI3	41490	2535	21.95	23.00	1.274	62.9	1.006	0.08	0.583	0.747
	LTE Band 41	20M	QPSK	50	54	-	Front	5mm	Ant 2	-	ECI3	39750	2506	21.93	23.00	1.279	62.9	1.006	-0.13	0.534	0.687
	LTE Band 41	20M	QPSK	50	54	-	Front	5mm	Ant 2	-	ECI3	40185	2549.5	21.47	23.00	1.422	62.9	1.006	-0.01	0.642	0.919
	LTE Band 41	20M	QPSK	50	54	-	Front	5mm	Ant 2	-	ECI3	40620	2593	21.29	23.00	1.483	62.9	1.006	-0.05	0.715	1.066
	LTE Band 41	20M	QPSK	50	54	-	Front	5mm	Ant 2	-	ECI3	41055	2636.5	21.77	23.00	1.327	62.9	1.006	0.08	0.711	0.949
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 2	-	ECI3	39750	2506	21.93	23.00	1.279	62.9	1.006	0.16	0.495	0.637
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 2	-	ECI3	40185	2549.5	21.47	23.00	1.422	62.9	1.006	0.06	0.532	0.761



FCC SAR Test Report

Report No. : FA612609

	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 2	-	ECI3	40620	2593	21.29	23.00	1.483	62.9	1.006	-0.1	0.601	0.896
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 2	-	ECI3	41055	2636.5	21.77	23.00	1.327	62.9	1.006	-0.09	0.625	0.835
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 2	-	ECI3	41490	2680	21.85	23.00	1.303	62.9	1.006	-0.1	0.774	1.015
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 2	-	ECI3	41490	2680	21.85	23.00	1.303	62.9	1.006	0.06	0.602	0.789
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 9	-	ECI3	41490	2680	19.10	19.50	1.096	62.9	1.006	-0.16	0.330	0.364
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	ECI3	41490	2680	19.10	19.50	1.096	62.9	1.006	0.08	0.551	0.608
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	ECI3	39750	2506	18.76	19.50	1.186	62.9	1.006	0.16	0.481	0.574
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	ECI3	40185	2549.5	18.54	19.50	1.247	62.9	1.006	0.06	0.519	0.651
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	ECI3	40620	2593	18.33	19.50	1.309	62.9	1.006	-0.1	0.631	0.831
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 9	-	ECI3	41490 41292	2680 2660.2	18.78	19.50	1.180	62.9	1.006	0.08	0.596	0.708
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	ECI3	41055	2636.5	18.70	19.50	1.202	62.9	1.006	-0.09	0.594	0.718
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Back	5mm	Ant 9	-	ECI3	40620	2593	19.73	21.10	1.371	42.9	1.009	0.05	0.536	0.741
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 9	-	ECI3	41490 41292	2680 2660.2	20.54	21.10	1.138	42.9	1.009	-0.09	0.511	0.587
	LTE Band 41	20M	QPSK	1	49	-	Front	19mm	Ant 9	-	ECI4	41490	2680	23.42	24.00	1.143	62.9	1.006	-0.03	0.152	0.175
	LTE Band 41	20M	QPSK	1	49	-	Back	22mm	Ant 9	-	ECI4	41490	2680	23.42	24.00	1.143	62.9	1.006	0.17	0.180	0.207
	LTE Band 41	20M	QPSK	50	54	-	Front	5mm	Ant 9	-	ECI3	41490	2535	18.96	19.50	1.132	62.9	1.006	0.15	0.307	0.350
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 9	-	ECI3	41490	2535	18.96	19.50	1.132	62.9	1.006	0.13	0.543	0.619
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 9	-	ECI3	39750	2506	18.74	19.50	1.191	62.9	1.006	0.14	0.441	0.528
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 9	-	ECI3	40185	2549.5	18.38	19.50	1.294	62.9	1.006	-0.1	0.469	0.611
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 9	-	ECI3	40620	2593	18.28	19.50	1.324	62.9	1.006	0.12	0.512	0.682
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 9	-	ECI3	41055	2636.5	18.67	19.50	1.211	62.9	1.006	-0.05	0.530	0.645
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 9	-	ECI3	41490	2680	18.91	19.50	1.146	62.9	1.006	0.03	0.455	0.524
	LTE Band 41	20M	QPSK	1	49	-	Front	5mm	Ant 1	-	ECI3	40185	2549.5	18.14	19.00	1.219	62.9	1.006	0.08	0.456	0.559
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	ECI3	40185	2549.5	18.14	19.00	1.219	62.9	1.006	0	0.552	0.677
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	ECI3	39750	2506	18.09	19.00	1.233	62.9	1.006	0.18	0.540	0.670
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	ECI3	40620	2593	17.80	19.00	1.318	62.9	1.006	-0.12	0.469	0.622
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	ECI3	41055	2636.5	17.73	19.00	1.340	62.9	1.006	0.14	0.528	0.712
	LTE Band 41	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	ECI3	41490	2680	17.68	19.00	1.355	62.9	1.006	-0.18	0.583	0.795
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	40185 40383	2549.5 2569.3	17.53	19.00	1.403	62.9	1.006	-0.1	0.542	0.765
	LTE Band 41 HPUE	20M	QPSK	1	49	-	Back	5mm	Ant 1	-	ECI3	40185	2549.5	19.75	20.60	1.216	42.9	1.009	0.03	0.601	0.738
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI3	40185 40383	2549.5 2569.3	19.26	20.60	1.361	42.9	1.009	0.18	0.483	0.663
	LTE Band 41	20M	QPSK	1	49	-	Front	19mm	Ant 1	-	ECI4	40185	2549.5	23.17	24.00	1.211	62.9	1.006	0.05	0.256	0.312
	LTE Band 41	20M	QPSK	1	49	-	Back	22mm	Ant 1	-	ECI4	40185	2549.5	23.17	24.00	1.211	62.9	1.006	-0.06	0.267	0.325
	LTE Band 41	20M	QPSK	50	54	-	Front	5mm	Ant 1	-	ECI3	40185	2549.5	18.06	19.00	1.242	62.9	1.006	0.09	0.440	0.550
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 1	-	ECI3	40185	2549.5	18.06	19.00	1.242	62.9	1.006	0.14	0.542	0.677
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 1	-	ECI3	39750	2506	18.01	19.00	1.256	62.9	1.006	0.17	0.514	0.649
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 1	-	ECI3	40620	2593	17.70	19.00	1.349	62.9	1.006	0.14	0.476	0.646
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 1	-	ECI3	41055	2636.5	17.65	19.00	1.365	62.9	1.006	-0.15	0.514	0.706
	LTE Band 41	20M	QPSK	50	54	-	Back	5mm	Ant 1	-	ECI3	41490	2680	17.63	19.00	1.371	62.9	1.006	-0.08	0.556	0.767
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	ECI3	40185	2680	18.06	19.00	1.242	62.9	1.006	-0.12	0.519	0.648
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	5mm	Ant 2	-	ECI3	507000	2535	19.96	21.50	1.426	-	-	-0.13	0.687	0.979
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	5mm	Ant 2	-	ECI3	507000	2535	19.96	21.50	1.426	-	-	0.06	0.571	0.814
95	FR1 n7	50M	QPSK	135	68	DFT-15	Front	5mm	Ant 2	-	ECI3	507000	2535	19.93	21.50	1.435	-	-	0.15	0.762	1.094
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	5mm	Ant 2	-	ECI3	507000	2535	19.93	21.50	1.435	-	-	-0.19	0.670	0.962
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	19mm	Ant 2	-	ECI4	507000	2535	22.39	24.00	1.449	-	-	-0.08	0.371	0.537
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	22mm	Ant 2	-	ECI4	507000	2535	22.39	24.00	1.449	-	-	-0.03	0.246	0.356
	FR1 n7	50M	QPSK	270	0	DFT-15	Front	5mm	Ant 2	-	ECI3	507000	2535	19.90	21.50	1.445	-	-	0.09	0.593	0.857
	FR1 n7	50M	QPSK	270	0	DFT-15	Back	5mm	Ant 2	-	ECI3	507000	2535	19.90	21.50	1.445	-	-	0.16	0.511	0.739
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	ECI3	507000	2535	14.92	16.50	1.439	-	-	-0.09	0.402	0.578
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	ECI3	507000	2535	14.92	16.50	1.439	-	-	0.18	0.550	0.791
	FR1 n7	50M	QPSK	1	1	DFT-15	Front	19mm	Ant 1	-	ECI4	507000	2535	22.45	24.00	1.429	-	-	0.05	0.326	0.466
	FR1 n7	50M	QPSK	1	1	DFT-15	Back	22mm	Ant 1	-	ECI4	507000	2535	22.45	24.00	1.429	-	-	0	0.306	0.437
	FR1 n7	50M	QPSK	135	68	DFT-15	Front	5mm	Ant 1	-	ECI3	507000	2535	14.90	16.50	1.445	-	-	-0.01	0.443	0.640
	FR1 n7	50M	QPSK	135	68	DFT-15	Back	5mm	Ant 1	-	ECI3	507000	2535	14.90	16.50	1.445	-	-	-0.02	0.513	0.742
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 2	-	ECI3	518598	2592.99	20.24	21.50	1.337	-	-	-0.15	0.783	1.047



FCC SAR Test Report

Report No. : FA612609

	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 2	-	ECI3	518598	2592.99	20.24	21.50	1.337	-	-	-0.15	0.596	0.797
96	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	-	ECI3	518598	2592.99	20.19	21.50	1.352	-	-	-0.04	0.943	1.275
	FR1 n41C	100M	QPSK	180	93	DFT-30	Front	5mm	Ant 2	-	ECI3	520056 534000	2600.28 2670	20.14	21.50	1.368	-	-	-0.02	0.886	1.212
	FR1 n41C	100M	QPSK	180	93	DFT-30	Front	5mm	Ant 2	-	ECI3	509202 523146	2546.01 2615.73	20.00	21.50	1.413	-	-	0.16	0.842	1.189
	FR1 n41C	100M	QPSK	180	93	DFT-30	Front	5mm	Ant 2	-	ECI3	514602 528546	2573.01 2642.73	19.99	21.50	1.416	-	-	0.07	0.815	1.154
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 2	-	ECI3	518598	2592.99	20.19	21.50	1.352	-	-	-0.13	0.764	1.033
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	-	ECI3	518598	2592.99	23.17	24.50	1.358	50	1.000	-0.04	0.926	1.258
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 2	Headset	ECI3	518598	2592.99	20.19	21.50	1.352	-	-	-0.04	0.826	1.117
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	19mm	Ant 2	-	ECI4	518598	2592.99	22.47	24.00	1.422	-	-	0.03	0.374	0.532
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	22mm	Ant 2	-	ECI4	518598	2592.99	22.47	24.00	1.422	-	-	0.07	0.262	0.373
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 2	-	ECI3	518598	2592.99	20.06	21.50	1.393	-	-	0	0.784	1.092
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 2	-	ECI3	518598	2592.99	20.06	21.50	1.393	-	-	-0.04	0.625	0.871
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 9	-	ECI3	518598	2592.99	15.62	17.00	1.374	-	-	0.03	0.276	0.379
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 9	-	ECI3	518598	2592.99	15.62	17.00	1.374	-	-	-0.03	0.463	0.636
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 9	-	ECI3	518598	2592.99	15.56	17.00	1.393	-	-	-0.04	0.394	0.549
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 9	-	ECI3	518598	2592.99	15.56	17.00	1.393	-	-	0.05	0.621	0.865
	FR1 n41C	100M	QPSK	180	93	DFT-30	Back	5mm	Ant 9	-	ECI3	520056 534000	2600.28 2670	15.77	17.00	1.327	-	-	-0.04	0.589	0.782
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 9	-	ECI3	518598	2592.99	18.81	20.00	1.315	50	1.000	0.05	0.622	0.818
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	19mm	Ant 9	-	ECI4	518598	2592.99	22.54	24.00	1.400	-	-	-0.05	0.206	0.288
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	22mm	Ant 9	-	ECI4	518598	2592.99	22.54	24.00	1.400	-	-	0.18	0.219	0.307
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 9	-	ECI3	518598	2592.99	15.54	17.00	1.400	-	-	-0.09	0.543	0.760
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 1	-	ECI3	518598	2592.99	16.82	18.00	1.312	-	-	-0.1	0.389	0.510
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	-	ECI3	518598	2592.99	16.82	18.00	1.312	-	-	-0.06	0.664	0.871
	FR1 n41C	100M	QPSK	180	93	DFT-30	Back	5mm	Ant 1	-	ECI3	520056 534000	2600.28 2670	16.73	18.00	1.340	-	-	0.03	0.601	0.805
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 1	-	ECI3	518598	2592.99	19.85	21.00	1.303	50	1.000	-0.06	0.621	0.809
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	19mm	Ant 1	-	ECI4	518598	2592.99	22.78	24.00	1.324	-	-	0	0.287	0.380
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 1	-	ECI4	518598	2592.99	22.78	24.00	1.324	-	-	-0.08	0.254	0.336
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 1	-	ECI3	518598	2592.99	16.78	18.00	1.324	-	-	-0.04	0.360	0.477
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 1	-	ECI3	518598	2592.99	16.78	18.00	1.324	-	-	-0.15	0.539	0.714
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 1	-	ECI3	518598	2592.99	16.73	18.00	1.340	-	-	0.01	0.502	0.673
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 0	-	ECI7	518598	2592.99	22.14	23.50	1.368	-	-	0.11	0.915	1.251
	FR1 n41C	100M	QPSK	180	93	DFT-30	Front	5mm	Ant 0	-	ECI7	520056 534000	2600.28 2670	22.27	23.50	1.327	-	-	-0.13	0.836	1.110
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 0	-	ECI7	518598	2592.99	22.14	23.50	1.368	-	-	-0.09	0.792	1.083
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 0	-	ECI7	518598	2592.99	25.22	26.50	1.343	50	1.000	0.11	0.902	1.211
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 0	Headset	ECI7	518598	2592.99	22.14	23.50	1.368	-	-	0.11	0.812	1.111
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	19mm	Ant 0	-	ECI4	518598	2592.99	22.71	24.00	1.346	-	-	-0.12	0.144	0.194
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 0	-	ECI4	518598	2592.99	22.71	24.00	1.346	-	-	0.1	0.069	0.093
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 0	-	ECI7	518598	2592.99	22.08	23.50	1.387	-	-	-0.04	0.872	1.209
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 0	-	ECI7	518598	2592.99	22.08	23.50	1.387	-	-	-0.03	0.749	1.039
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 0	-	ECI7	518598	2592.99	21.54	23.00	1.400	-	-	0.14	0.817	1.143
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 0	-	ECI7	518598	2592.99	21.54	23.00	1.400	-	-	-0.16	0.691	0.967
3-4GHz																					
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 7	-	ECI3	42590	3500	15.47	17.00	1.422	62.9	1.006	0.16	0.214	0.306
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	ECI3	42590	3500	15.47	17.00	1.422	62.9	1.006	0.08	0.386	0.552
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	19mm	Ant 7	-	ECI4	42590	3500	22.43	24.00	1.435	62.9	1.006	-0.19	0.293	0.423
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	22mm	Ant 7	-	ECI4	42590	3500	22.43	24.00	1.435	62.9	1.006	0.03	0.246	0.355
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 7	-	ECI3	42590	3500	15.41	17.00	1.442	62.9	1.006	-0.17	0.176	0.255
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	ECI3	42590	3500	15.41	17.00	1.442	62.9	1.006	-0.12	0.298	0.432
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 7	-	ECI3	43340	3575	15.46	17.00	1.426	62.9	1.006	0.1	0.257	0.369
97	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	ECI3	43340	3575	15.46	17.00	1.426	62.9	1.006	0.15	0.423	0.607
	LTE Band 42	20M	QPSK	1	0	-	Front	19mm	Ant 7	-	ECI4	43340	3575	22.24	24.00	1.500	62.9	1.006	0.03	0.347	0.524
	LTE Band 42	20M	QPSK	1	0	-	Back	22mm	Ant 7	-	ECI4	43340	3575	22.24	24.00	1.500	62.9	1.006	-0.06	0.302	0.456
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 7	-	ECI3	43340	3575	15.33	17.00	1.469	62.9	1.006	-0.09	0.252	0.372
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	ECI3	43340	3575	15.33	17.00	1.469	62.9	1.006	0.08	0.403	0.596



FCC SAR Test Report

Report No. : FA612609

	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 7	-	ECI3	55830	3609	14.52	16.00	1.406	62.9	1.006	0.02	0.239	0.338
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	ECI3	55830	3609	14.52	16.00	1.406	62.9	1.006	0.16	0.475	0.672
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	ECI3	55340	3560	14.42	16.00	1.439	62.9	1.006	-0.06	0.402	0.582
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	ECI3	56150	3641	14.38	16.00	1.452	62.9	1.006	0.06	0.474	0.692
	LTE Band 48C	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	ECI3	56150 56348	3641 3660.8	14.47	16.00	1.422	62.9	1.006	-0.06	0.322	0.461
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 7	-	ECI3	56640	3690	14.51	16.00	1.409	62.9	1.006	-0.14	0.437	0.620
	LTE Band 48	20M	QPSK	1	0	-	Front	19mm	Ant 7	-	ECI4	55830	3609	22.26	24.00	1.493	62.9	1.006	-0.17	0.238	0.357
	LTE Band 48	20M	QPSK	1	0	-	Back	22mm	Ant 7	-	ECI4	55830	3609	22.26	24.00	1.493	62.9	1.006	0.15	0.252	0.378
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 7	-	ECI3	55830	3609	14.34	16.00	1.466	62.9	1.006	-0.01	0.184	0.271
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	ECI3	55830	3609	14.34	16.00	1.466	62.9	1.006	0.14	0.408	0.602
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	ECI3	55340	3560	14.31	16.00	1.476	62.9	1.006	0.04	0.332	0.493
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	ECI3	56150	3641	14.34	16.00	1.466	62.9	1.006	0.13	0.429	0.632
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 7	-	ECI3	56640	3690	14.31	16.00	1.476	62.9	1.006	0.14	0.416	0.618
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 7	-	ECI3	55830	3609	14.32	16.00	1.472	62.9	1.006	0.07	0.409	0.606
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	ECI3	55830	3609	18.84	20.50	1.466	62.9	1.006	0.07	0.459	0.677
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	ECI3	55830	3609	18.84	20.50	1.466	62.9	1.006	-0.1	0.251	0.370
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	ECI3	55340	3560	18.81	20.50	1.476	62.9	1.006	0.05	0.405	0.601
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	ECI3	56150	3641	18.80	20.50	1.479	62.9	1.006	0.04	0.486	0.723
98	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	ECI3	56640	3690	18.78	20.50	1.486	62.9	1.006	0.03	0.514	0.768
	LTE Band 48C	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	ECI3	56150 56348	3641 3660.8	18.81	20.50	1.476	62.9	1.006	0.14	0.398	0.591
	LTE Band 48	20M	QPSK	1	0	-	Front	19mm	Ant 5	-	ECI4	55830	3609	22.39	24.00	1.449	62.9	1.006	-0.03	0.270	0.394
	LTE Band 48	20M	QPSK	1	0	-	Back	22mm	Ant 5	-	ECI4	55830	3609	22.39	24.00	1.449	62.9	1.006	-0.01	0.158	0.230
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	-	ECI3	55830	3609	18.70	20.50	1.514	62.9	1.006	0.17	0.400	0.609
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	ECI3	55830	3609	18.70	20.50	1.514	62.9	1.006	-0.18	0.214	0.326
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	-	ECI3	55340	3560	18.68	20.50	1.521	62.9	1.006	0.04	0.335	0.512
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	-	ECI3	56150	3641	18.69	20.50	1.517	62.9	1.006	0.01	0.403	0.615
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	-	ECI3	56640	3690	18.66	20.50	1.528	62.9	1.006	-0.13	0.458	0.704
	LTE Band 48	20M	QPSK	100	0	-	Front	5mm	Ant 5	-	ECI3	55830	3609	18.71	20.50	1.510	62.9	1.006	-0.12	0.391	0.594
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	-	ECI3	641666	3624.99	13.37	15.00	1.455	-	-	0.03	0.283	0.412
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	ECI3	641666	3624.99	13.37	15.00	1.455	-	-	-0.08	0.500	0.728
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	ECI3	638000	3570	13.34	15.00	1.466	-	-	0.03	0.456	0.668
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	ECI3	645332	3679.98	13.35	15.00	1.462	-	-	-0.08	0.502	0.734
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	19mm	Ant 7	-	ECI4	641666	3624.99	22.45	24.00	1.429	-	-	0.09	0.393	0.562
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	22mm	Ant 7	-	ECI4	641666	3624.99	22.45	24.00	1.429	-	-	-0.11	0.404	0.577
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 7	-	ECI3	641666	3624.99	13.36	15.00	1.459	-	-	-0.17	0.274	0.400
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 7	-	ECI3	641666	3624.99	13.36	15.00	1.459	-	-	-0.06	0.470	0.686
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 7	-	ECI3	638000	3570	13.28	15.00	1.486	-	-	-0.17	0.430	0.639
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 7	-	ECI3	645332	3679.98	13.31	15.00	1.476	-	-	-0.06	0.491	0.725
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 7	-	ECI3	641666	3624.99	13.34	15.00	1.466	-	-	0.08	0.434	0.636
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	ECI3	641666	3624.99	17.54	19.00	1.400	-	-	-0.05	0.448	0.627
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	ECI3	641666	3624.99	17.54	19.00	1.400	-	-	0.18	0.151	0.211
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	ECI3	638000	3570	17.37	19.00	1.455	-	-	0.03	0.412	0.600
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	ECI3	645332	3679.98	17.50	19.00	1.413	-	-	0.19	0.474	0.670
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 5	-	ECI3	641666	3624.99	17.53	19.00	1.403	-	-	-0.04	0.467	0.655
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	-	ECI3	641666	3624.99	17.53	19.00	1.403	-	-	0.11	0.156	0.219
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 5	-	ECI3	638000	3570	17.36	19.00	1.459	-	-	-0.1	0.440	0.642
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 5	-	ECI3	645332	3679.98	17.43	19.00	1.435	-	-	-0.19	0.490	0.703
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	19mm	Ant 5	-	ECI4	641666	3624.99	22.15	24.00	1.531	-	-	-0.11	0.342	0.524
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	22mm	Ant 5	-	ECI4	641666	3624.99	22.15	24.00	1.531	-	-	-0.17	0.117	0.179
	FR1 n48	40M	QPSK	100	0	DFT-30	Front	5mm	Ant 5	-	ECI3	641666	3624.99	17.45	19.00	1.429	-	-	-0.14	0.436	0.623
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	-	ECI3	641666	3624.99	15.89	17.00	1.291	-	-	-0.19	0.027	0.035
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	ECI3	641666	3624.99	15.89	17.00	1.291	-	-	0.19	0.512	0.661
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	ECI3	638000	3570	15.75	17.00	1.334	-	-	-0.15	0.481	0.641
99	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	ECI3	645332	3679.98	15.69	17.00	1.352	-	-	0.17	0.566	0.765
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	19mm	Ant 10	-	ECI4	641666	3624.99	22.93	24.00	1.279	-	-	0.09	0.000	0.000



FCC SAR Test Report

Report No. : FA612609

	FR1 n48	40M	QPSK	1	1	DFT-30	Back	22mm	Ant 10	-	ECI4	641666	3624.99	22.93	24.00	1.279	-	-	-0.09	0.309	0.395
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 10	-	ECI3	641666	3624.99	15.84	17.00	1.306	-	-	0.01	0.026	0.034
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 10	-	ECI3	641666	3624.99	15.84	17.00	1.306	-	-	-0.08	0.499	0.652
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 10	-	ECI3	638000	3570	15.73	17.00	1.340	-	-	0.1	0.464	0.622
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 10	-	ECI3	645332	3679.98	15.64	17.00	1.368	-	-	-0.1	0.528	0.722
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 10	-	ECI3	641666	3624.99	15.80	17.00	1.318	-	-	0.04	0.484	0.638
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	-	ECI3	641666	3624.99	18.65	19.00	1.084	-	-	0	0.461	0.500
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	ECI3	641666	3624.99	18.65	19.00	1.084	-	-	-0.03	0.626	0.679
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	ECI3	638000	3570	18.49	19.00	1.125	-	-	0.01	0.580	0.652
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	ECI3	645332	3679.98	18.53	19.00	1.114	-	-	-0.07	0.617	0.688
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 4	-	ECI3	641666	3624.99	18.59	19.00	1.099	-	-	-0.17	0.478	0.525
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	-	ECI3	641666	3624.99	18.59	19.00	1.099	-	-	0.01	0.654	0.719
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	-	ECI3	638000	3570	18.47	19.00	1.130	-	-	0.13	0.602	0.680
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	-	ECI3	645332	3679.98	18.47	19.00	1.130	-	-	-0.11	0.657	0.742
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	19mm	Ant 4	-	ECI4	641666	3624.99	23.26	24.00	1.186	-	-	-0.03	0.421	0.499
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	22mm	Ant 4	-	ECI4	641666	3624.99	23.26	24.00	1.186	-	-	-0.01	0.259	0.307
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 4	-	ECI3	641666	3624.99	18.51	19.00	1.119	-	-	-0.18	0.602	0.674
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	-	ECI3	633332	3499.98	13.19	15.00	1.517	-	-	0.19	0.207	0.314
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	ECI3	633332	3499.98	13.19	15.00	1.517	-	-	-0.03	0.327	0.496
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7	-	ECI3	633332	3499.98	13.12	15.00	1.542	-	-	0.06	0.218	0.336
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	-	ECI3	633332	3499.98	13.12	15.00	1.542	-	-	0.16	0.350	0.540
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	-	ECI3	633332	3499.98	16.09	18.00	1.552	50	1.000	0.16	0.332	0.515
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 7	-	ECI3	633332	3499.98	13.09	15.00	1.552	-	-	-0.05	0.318	0.494
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	-	ECI3	656000	3840	13.31	15.00	1.476	-	-	0.09	0.264	0.390
100	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	ECI3	656000	3840	13.31	15.00	1.476	-	-	-0.02	0.544	0.803
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Back	5mm	Ant 7	-	ECI3	650000 654648	3750 3819.72	13.40	15.00	1.445	-	-	0.16	0.501	0.724
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	ECI3	656000	3840	16.34	18.00	1.466	50	1.000	-0.02	0.521	0.764
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	19mm	Ant 7	-	ECI4	656000	3840	22.35	24.00	1.462	-	-	0.01	0.384	0.561
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 7	-	ECI4	656000	3840	22.35	24.00	1.462	-	-	0.14	0.426	0.623
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7	-	ECI3	656000	3840	13.25	15.00	1.496	-	-	-0.07	0.248	0.371
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	-	ECI3	656000	3840	13.25	15.00	1.496	-	-	-0.19	0.514	0.769
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 7	-	ECI3	656000	3840	13.19	15.00	1.517	-	-	-0.02	0.473	0.718
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	ECI3	633332	3499.98	14.93	16.50	1.435	-	-	0.16	0.232	0.333
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	ECI3	633332	3499.98	14.93	16.50	1.435	-	-	-0.12	0.139	0.200
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	-	ECI3	633332	3499.98	14.91	16.50	1.442	-	-	-0.08	0.240	0.346
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	-	ECI3	633332	3499.98	14.91	16.50	1.442	-	-	0.03	0.146	0.211
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	-	ECI3	633332	3499.98	17.81	19.50	1.476	50	1.000	-0.08	0.231	0.341
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	ECI3	656000	3840	15.19	16.50	1.352	-	-	-0.09	0.476	0.644
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Front	5mm	Ant 5	-	ECI3	650000 654648	3750 3819.72	15.15	16.50	1.365	-	-	0.03	0.427	0.583
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	ECI3	656000	3840	15.19	16.50	1.352	-	-	0.17	0.314	0.425
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	ECI3	656000	3840	17.98	19.50	1.419	50	1.000	-0.09	0.448	0.636
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	19mm	Ant 5	-	ECI4	656000	3840	22.54	24.00	1.400	-	-	-0.11	0.437	0.612
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 5	-	ECI4	656000	3840	22.54	24.00	1.400	-	-	0.15	0.158	0.221
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	-	ECI3	656000	3840	15.13	16.50	1.371	-	-	0.08	0.446	0.611
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	-	ECI3	656000	3840	15.13	16.50	1.371	-	-	-0.18	0.298	0.409
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 5	-	ECI3	656000	3840	15.05	16.50	1.396	-	-	-0.19	0.425	0.593
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 5	-	ECI3	656000	3840	15.05	16.50	1.396	-	-	-0.19	0.288	0.402
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	-	ECI3	633332	3499.98	15.16	15.50	1.081	-	-	0.11	0.061	0.066
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	ECI3	633332	3499.98	15.16	15.50	1.081	-	-	-0.04	0.515	0.557
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	-	ECI3	633332	3499.98	15.14	15.50	1.086	-	-	-0.12	0.047	0.051
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	-	ECI3	633332	3499.98	15.14	15.50	1.086	-	-	0.19	0.526	0.571
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	-	ECI3	633332	3499.98	17.99	18.50	1.125	50	1.000	0.19	0.511	0.575
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	19mm	Ant 10	-	ECI4	633332	3499.98	23.66	24.00	1.081	-	-	-0.03	0.077	0.083
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	22mm	Ant 10	-	ECI4	633332	3499.98	23.66	24.00	1.081	-	-	0.06	0.503	0.544
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 10	-	ECI3	656000	3840	15.40	15.50	1.023	-	-	-0.11	0.023	0.024



FCC SAR Test Report

Report No. : FA612609

	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	ECI3	656000	3840	15.40	15.50	1.023	-	-	-0.08	0.563	0.576
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Back	5mm	Ant 10	-	ECI3	650000 654648	3750 3819.72	15.26	15.50	1.057	-	-	-0.08	0.517	0.546
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 10	-	ECI3	656000	3840	18.38	18.50	1.028	50	1.000	-0.08	0.522	0.537
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 10	-	ECI3	656000	3840	15.36	15.50	1.033	-	-	-0.13	0.016	0.017
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 10	-	ECI3	656000	3840	15.36	15.50	1.033	-	-	0.08	0.493	0.509
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 10	-	ECI3	656000	3840	15.30	15.50	1.047	-	-	-0.11	0.457	0.479
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	-	ECI3	633332	3499.98	17.00	18.50	1.413	-	-	-0.17	0.190	0.268
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	ECI3	633332	3499.98	17.00	18.50	1.413	-	-	-0.09	0.163	0.230
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	-	ECI3	633332	3499.98	16.97	18.50	1.422	-	-	0	0.210	0.299
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	-	ECI3	633332	3499.98	16.97	18.50	1.422	-	-	-0.14	0.182	0.259
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	-	ECI3	633332	3499.98	19.68	21.50	1.521	50	1.000	0	0.202	0.307
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	-	ECI3	656000	3840	16.96	18.50	1.426	-	-	0.05	0.408	0.582
	FR1 n77C Part27O	100M	QPSK	180	93	DFT-30	Front	5mm	Ant 4	-	ECI3	650000 654648	3750 3819.72	17.18	18.50	1.355	-	-	-0.14	0.356	0.482
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	ECI3	656000	3840	16.96	18.50	1.426	-	-	0.15	0.377	0.537
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	-	ECI3	656000	3840	19.80	21.50	1.479	50	1.000	0.05	0.385	0.569
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Front	19mm	Ant 4	-	ECI4	656000	3840	22.27	24.00	1.489	-	-	-0.12	0.377	0.561
	FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Back	22mm	Ant 4	-	ECI4	656000	3840	22.27	24.00	1.489	-	-	-0.16	0.295	0.439
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	-	ECI3	656000	3840	16.92	18.50	1.439	-	-	0.09	0.387	0.557
	FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	-	ECI3	656000	3840	16.92	18.50	1.439	-	-	-0.12	0.356	0.512
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 4	-	ECI3	656000	3840	16.84	18.50	1.466	-	-	0.07	0.366	0.536
	FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	-	ECI3	656000	3840	16.84	18.50	1.466	-	-	0.07	0.337	0.494

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)
WLAN																
101	Bluetooth	DH5 1Mbps	Front	5mm	Ant 3	Standalone	39	2441	11.60	12.50	1.230	76.80	1.085	0.12	0.037	0.050
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Standalone	39	2441	11.60	12.50	1.230	76.80	1.085	0.01	0.179	0.239
	Bluetooth	DH5 1Mbps	Front	19mm	Ant 3	Standalone	39	2441	17.00	18.00	1.259	76.80	1.085	-0.18	0.009	0.012
	Bluetooth	DH5 1Mbps	Back	22mm	Ant 3	Standalone	39	2441	17.00	18.00	1.259	76.80	1.085	-0.03	0.052	0.071
102	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+6	Standalone	11	2462	19.42	21.00	1.439	100.00	1.000	0.14	0.105	0.151
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+6	Standalone	11	2462	19.42	21.00	1.439	100.00	1.000	0.05	0.743	1.069
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+6	Standalone	1	2412	19.18	20.50	1.355	100.00	1.000	0.06	0.789	1.069
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+6	Standalone	6	2437	19.14	20.50	1.368	100.00	1.000	-0.15	0.791	1.082
	WLAN2.4GHz	802.11b 1Mbps	Front	19mm	Ant 3+6	Standalone	11	2462	21.97	23.50	1.421	100.00	1.000	-0.1	0.072	0.102
	WLAN2.4GHz	802.11b 1Mbps	Back	22mm	Ant 3+6	Standalone	11	2462	21.97	23.50	1.421	100.00	1.000	-0.13	0.167	0.237
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+6	DBS	11	2462	17.99	19.50	1.416	100.00	1.000	0.11	0.074	0.105
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+6	DBS	11	2462	17.99	19.50	1.416	100.00	1.000	-0.13	0.561	0.794
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3+6	Simultaneous	11	2462	13.96	15.50	1.426	100.00	1.000	0.17	0.030	0.043
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3+6	Simultaneous	11	2462	13.96	15.50	1.426	100.00	1.000	0.16	0.221	0.315
103	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 4+6	Standalone	62	5310	16.68	18.50	1.520	100.00	1.000	-0.16	0.665	1.011
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 4+6	Standalone	62	5310	16.68	18.50	1.520	100.00	1.000	-0.04	0.671	1.020
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 4+6	Standalone	54	5270	16.39	17.60	1.321	100.00	1.000	-0.02	0.624	0.824
	WLAN5GHz	802.11ac-VHT40 MCS0	Front	19mm	Ant 4+6	Standalone	54	5270	20.79	22.50	1.482	100.00	1.000	0.01	0.127	0.188
	WLAN5GHz	802.11ac-VHT40 MCS0	Back	22mm	Ant 4+6	Standalone	54	5270	20.79	22.50	1.482	100.00	1.000	0.06	0.118	0.175
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4+6	DBS	58	5290	14.18	16.00	1.519	100.00	1.000	0.1	0.412	0.626
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	DBS	58	5290	14.18	16.00	1.519	100.00	1.000	-0.19	0.431	0.655
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4+6	Simultaneous	58	5290	10.71	12.50	1.509	100.00	1.000	-0.05	0.187	0.282
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	Simultaneous	58	5290	10.71	12.50	1.509	100.00	1.000	-0.09	0.196	0.296
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4+6	Standalone	138	5690	14.11	15.80	1.477	100.00	1.000	-0.09	0.341	0.504
104	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	Standalone	138	5690	14.11	15.80	1.477	100.00	1.000	0.03	0.782	1.155
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	Standalone	106	5530	12.61	14.30	1.475	100.00	1.000	-0.19	0.538	0.793
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	Standalone	122	5610	13.75	15.50	1.497	100.00	1.000	-0.09	0.699	1.047
	WLAN5GHz	802.11ax-HE40 MCS0	Front	19mm	Ant 4+6	Standalone	142	5710	20.27	22.00	1.489	100.00	1.000	-0.15	0.163	0.243
	WLAN5GHz	802.11ax-HE40 MCS0	Back	22mm	Ant 4+6	Standalone	142	5710	20.27	22.00	1.489	100.00	1.000	0.16	0.156	0.232



FCC SAR Test Report

Report No. : FA612609

	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4+6	DBS	138	5690	12.64	14.30	1.466	100.00	1.000	-0.04	0.243	0.356
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	DBS	138	5690	12.64	14.30	1.466	100.00	1.000	0.05	0.527	0.773
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4+6	Simultaneous	138	5690	9.11	10.80	1.474	100.00	1.000	0.03	0.107	0.158
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	Simultaneous	138	5690	9.11	10.80	1.474	100.00	1.000	-0.01	0.240	0.354
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4+6	Standalone	155	5775	15.11	17.00	1.545	100.00	1.000	-0.1	0.473	0.731
105	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	Standalone	155	5775	15.11	17.00	1.545	100.00	1.000	-0.18	0.642	0.992
	WLAN5GHz	802.11ax-HE40 MCS0	Front	19mm	Ant 4+6	Standalone	151	5755	21.08	22.80	1.486	100.00	1.000	0.12	0.180	0.267
	WLAN5GHz	802.11ax-HE40 MCS0	Back	22mm	Ant 4+6	Standalone	151	5755	21.08	22.80	1.486	100.00	1.000	-0.11	0.195	0.290
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4+6	DBS	155	5775	13.62	15.50	1.542	100.00	1.000	0.03	0.327	0.504
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	DBS	155	5775	13.62	15.50	1.542	100.00	1.000	0.15	0.456	0.703
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4+6	Simultaneous	155	5775	10.12	12.00	1.543	100.00	1.000	-0.03	0.151	0.233
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4+6	Simultaneous	155	5775	10.12	12.00	1.543	100.00	1.000	-0.13	0.198	0.306

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)	Measured APD (W/m^2)
106	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+6	Standalone	167	6785	15.35	16.50	1.303	100.00	1.000	-0.1	0.308	0.401	2.36
	WLAN6GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 4+6	Standalone	167	6785	15.35	16.50	1.303	100.00	1.000	-0.04	0.077	0.100	0.616
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+6	Standalone	7	5985	14.42	15.50	1.283	100.00	1.000	-0.08	0.270	0.346	2.12
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+6	Standalone	87	6385	14.83	16.00	1.310	100.00	1.000	-0.04	0.283	0.371	2.29
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+6	Standalone	119	6545	14.45	16.00	1.428	100.00	1.000	-0.07	0.247	0.353	2.01
	WLAN6GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 4+6	Standalone	199	6945	15.05	16.50	1.395	100.00	1.000	0.07	0.199	0.278	1.52
	WLAN6GHz	802.11ax-HE80 MCS0	Front	19mm	Ant 4+6	Standalone	167	6785	15.84	17.00	1.307	100.00	1.000	-0.09	0.069	0.090	0.418
	WLAN6GHz	802.11ax-HE80 MCS0	Back	22mm	Ant 4+6	Standalone	167	6785	15.84	17.00	1.307	100.00	1.000	0.15	0.064	0.084	0.386



16.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
750MHz																				
107	LTE Band 12	10M	QPSK	1	0	-	Back	0mm	Ant 0	ECI6	23095	707.5	22.50	24.00	1.413	-	-	-0.12	1.440	2.034
	LTE Band 12	10M	QPSK	1	0	-	Left Side	0mm	Ant 0	ECI6	23095	707.5	22.50	24.00	1.413	-	-	0.07	1.320	1.865
	LTE Band 12	10M	QPSK	25	0	-	Back	0mm	Ant 0	ECI6	23095	707.5	21.42	23.00	1.439	-	-	0.12	1.170	1.683
	LTE Band 12	10M	QPSK	25	0	-	Left Side	0mm	Ant 0	ECI6	23095	707.5	21.42	23.00	1.439	-	-	0.13	1.050	1.511
	LTE Band 12	10M	QPSK	50	0	-	Back	0mm	Ant 0	ECI6	23095	707.5	21.40	23.00	1.445	-	-	0.19	1.240	1.792
108	LTE Band 13	10M	QPSK	1	0	-	Left Side	0mm	Ant 0	ECI6	23230	782	22.44	24.00	1.432	-	-	0.17	1.120	1.604
	LTE Band 13	10M	QPSK	25	0	-	Left Side	0mm	Ant 0	ECI6	23230	782	21.38	23.00	1.452	-	-	-0.01	1.030	1.496
109	LTE Band 14	10M	QPSK	1	0	-	Back	0mm	Ant 0	ECI6	23330	793	22.22	24.00	1.507	-	-	0.19	1.470	2.215
	LTE Band 14	10M	QPSK	1	0	-	Left Side	0mm	Ant 0	ECI6	23330	793	22.22	24.00	1.507	-	-	-0.12	1.100	1.657
	LTE Band 14	10M	QPSK	25	0	-	Back	0mm	Ant 0	ECI6	23330	793	21.14	23.00	1.535	-	-	0.09	1.170	1.796
	LTE Band 14	10M	QPSK	25	0	-	Left Side	0mm	Ant 0	ECI6	23330	793	21.14	23.00	1.535	-	-	0.04	0.845	1.297
	LTE Band 14	10M	QPSK	50	0	-	Back	0mm	Ant 0	ECI6	23330	793	21.04	23.00	1.570	-	-	0.03	0.831	1.305
	LTE Band 14	10M	QPSK	1	0	-	Back	0mm	Ant 1	ECI6	23330	793	22.45	24.00	1.429	-	-	0.08	1.130	1.615
	LTE Band 14	10M	QPSK	25	0	-	Back	0mm	Ant 1	ECI6	23330	793	21.38	23.00	1.452	-	-	-0.14	1.020	1.481
835MHz																				
110	GSM850	-	-	-	-	GPRS 4TX slot	Back	0mm	Ant 0	ECI6	189	836.4	28.10	29.50	1.380	-	-	-0.01	1.250	1.725
	GSM850	-	-	-	-	GPRS 4TX slot	Left Side	0mm	Ant 0	ECI6	189	836.4	28.10	29.50	1.380	-	-	0.12	0.789	1.089
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 0	ECI6	26865	831.5	22.31	24.00	1.476	-	-	-0.07	1.290	1.904
	LTE Band 5B	10M	QPSK	1	0	-	Back	0mm	Ant 0	ECI6	20450 20549	829 838.9	22.30	24.00	1.479	-	-	0.05	1.220	1.805
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 0	ECI6	26865	831.5	21.24	23.00	1.500	-	-	-0.01	0.957	1.435
111	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 1	ECI6	26865	831.5	22.24	24.00	1.500	-	-	-0.12	1.360	2.040
	LTE Band 5B	10M	QPSK	1	0	-	Back	0mm	Ant 1	ECI6	20450 20549	829 838.9	22.14	24.00	1.535	-	-	0.09	1.310	2.010
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 1	ECI6	26765	821.5	22.12	24.00	1.542	-	-	0.02	1.310	2.020
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 1	ECI6	26965	841.5	22.11	24.00	1.545	-	-	0.03	1.160	1.792
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 1	ECI6	26865	831.5	21.23	23.00	1.503	-	-	-0.08	1.060	1.593
	LTE Band 26	15M	QPSK	75	0	-	Back	0mm	Ant 1	ECI6	26865	831.5	21.21	23.00	1.510	-	-	0.16	1.030	1.555
112	FR1 n26	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI6	166300	831.5	22.51	24.00	1.409	-	-	0.07	0.707	0.996
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	ECI6	166300	831.5	22.31	24.00	1.476	-	-	-0.17	0.651	0.961
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	ECI6	1413	1732.6	22.17	23.50	1.358	-	-	-0.02	1.990	2.703
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	ECI6	1413	1732.6	22.17	23.50	1.358	-	-	0.01	1.620	2.200
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	ECI6	1413	1732.6	22.17	23.50	1.358	-	-	0	1.910	2.594
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	ECI6	1312	1712.4	22.16	23.50	1.361	-	-	0.14	1.970	2.682
113	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 2	ECI6	1513	1752.6	22.15	23.50	1.365	-	-	0.1	2.030	2.770
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	ECI6	1312	1712.4	22.16	23.50	1.361	-	-	0.14	1.540	2.097
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	ECI6	1513	1752.6	22.15	23.50	1.365	-	-	0.1	1.730	2.361
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	ECI6	1312	1712.4	22.16	23.50	1.361	-	-	0.14	1.860	2.532
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	ECI6	1513	1752.6	22.15	23.50	1.365	-	-	0.1	1.970	2.688
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	7mm	Ant 2	ECI4	1413	1732.6	22.83	24.00	1.309	-	-	0.11	0.826	1.081
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 2	ECI4	1413	1732.6	22.83	24.00	1.309	-	-	0.14	0.922	1.207
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	11mm	Ant 2	ECI4	1413	1732.6	22.83	24.00	1.309	-	-	0.02	0.418	0.547
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 2	ECI6	132322	1745	21.85	23.00	1.303	-	-	0.17	1.930	2.515
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 2	ECI6	132322	1745	21.85	23.00	1.303	-	-	-0.07	1.480	1.929
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	ECI6	132322	1745	21.85	23.00	1.303	-	-	-0.11	1.890	2.463
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 2	ECI6	132072	1720	21.68	23.00	1.355	-	-	0.18	1.870	2.534