

FCC SAR Test Report

APPLICANT : NOTHING TECHNOLOGY LIMITED
EQUIPMENT : Smart Phone
BRAND NAME : cmf by NOTHING
MODEL NAME : A001
FCC ID : 2AZEQ-A001
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: Si Zhang

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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	9
4.3 General 5G NR SAR Test and Reporting Considerations	13
5. Proximity Sensor Triggering Test.....	15
6. RF Exposure Limits.....	17
6.1 Uncontrolled Environment	17
6.2 Controlled Environment.....	17
7. Specific Absorption Rate (SAR)	18
7.1 Introduction	18
7.2 SAR Definition	18
8. System Description and Setup.....	19
8.1 E-Field Probe	20
8.2 Data Acquisition Electronics (DAE)	20
8.3 Phantom.....	21
8.4 Device Holder.....	22
9. Measurement Procedures.....	23
9.1 Spatial Peak SAR Evaluation	23
9.2 Power Reference Measurement.....	24
9.3 Area Scan.....	24
9.4 Zoom Scan.....	25
9.5 Volume Scan Procedures.....	25
9.6 Power Drift Monitoring.....	25
10. Test Equipment List	26
11. System Verification	27
11.1 Tissue Simulating Liquids	27
11.2 Tissue Verification.....	27
11.3 System Performance Check Results	29
12. RF Exposure Positions	31
12.1 Ear and handset reference point	31
12.2 Definition of the cheek position	32
12.3 Definition of the tilt position	33
12.4 Body Worn Accessory	34
12.5 Product Specific 10g SAR Exposure	35
12.6 Wireless Router	35
13. Conducted RF Output Power (Unit: dBm).....	36
14. Antenna Location	53
15. SAR Test Results	54
15.1 Head SAR	57
15.2 Hotspot SAR	72
15.3 Body Worn Accessory SAR	86
15.4 Product specific 10g SAR.....	93
15.5 Repeated SAR Measurement	102
16. Simultaneous Transmission Analysis	103
16.1 Head Exposure Conditions.....	104
16.2 Hotspot Exposure Conditions.....	115
16.3 Body-Worn Accessory Exposure Conditions	132
16.4 Product specific 10g SAR Exposure Conditions.....	138
17. Uncertainty Assessment.....	149
18. References	150
Appendixes	151
Appendix A. Plots of System Performance Check.....	151
Appendix B. Plots of High SAR Measurement	151
Appendix C. DASY Calibration Certificate.....	151
Appendix D. Test Setup Photos.....	151
Appendix E. Conducted RF Output Power Table	151
Appendix F. Power measurement connection diagram and CA Conducted RF Output Power Table	151
Appendix G. Power reduction mechanism verification	151



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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **NOTHING TECHNOLOGY LIMITED, Smart Phone, A001**, are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 15mm)	Highest Simultaneous Transmission
			1g SAR (W/kg)			1g SAR (W/kg)
Licensed	GSM	GSM850	0.99	0.57	0.32	1.59
		GSM1900	1.06	0.98	0.95	
	WCDMA	WCDMA II	1.03	0.96	1.03	
		WCDMA IV	1.16	0.96	0.88	
		WCDMA V	1.00	0.73	0.38	
	LTE	LTE Band 2	1.19	0.96	1.06	
		LTE Band 7	1.01	0.98	1.05	
		LTE Band 12/17	0.52	0.38	0.25	
		LTE Band 5	1.17	0.64	0.35	
		LTE Band 26	1.04	0.44	0.28	
		LTE Band 41/38	1.01	0.97	0.76	
		LTE Band 48	1.18	0.96	0.70	
		LTE Band 66/4	1.04	0.93	0.72	
		LTE Band 71	0.61	0.43	0.24	
		5G NR	FR1 n2	1.16	0.92	
	FR1 n5		1.08	0.63	0.33	
	FR1 n7		1.16	0.98	1.08	
	FR1 n12		0.61	0.47	0.21	
	FR1 n41/38		1.16	0.94	1.07	
	FR1 n66		1.18	0.95	0.69	
	FR1 n71		0.71	0.44	0.23	
	FR1 n77		1.16	0.97	1.09	
DTS	WLAN	2.4GHz WLAN	1.02	0.26	0.12	1.57
NII		5GHz WLAN	1.13	1.10	0.98	1.58
DSS	Bluetooth	2.4GHz Bluetooth	0.67	0.21	<0.10	1.57
Highest 10g SAR Summary						
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)			Highest Simultaneous Transmission 10g SAR (W/kg)
Licensed	GSM	GSM1900	2.92			3.94
	WCDMA	WCDMA II	3.09			
		WCDMA IV	2.67			
		LTE	LTE Band 2	2.99		
	LTE Band 7		3.09			
	LTE Band 41/38		2.70			
	LTE Band 48		2.80			
	LTE Band 66/4		2.55			
	5G NR	FR1 n2	2.94			
		FR1 n7	3.04			
		FR1 n41/38	3.17			
		FR1 n66	3.12			
FR1 n77		3.02				
NII	WLAN	5GHz WLAN	2.99			3.94
Date of Testing:			2025/1/2 ~ 2025/2/15			

Remark:

1. This device supports LTE B17/B4/B38 and B12/B66/B41. Since the supported frequency span for LTE B17/B4/B38 falls completely within the supports frequency span for LTE B12/B66/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 B12/B66/B41.
2. This device supports 5GNR n38 and 5GNR n41. Since the supported frequency span for 5GNR n38 falls completely within the supports frequency span for 5GNR n41, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for 5GNR n41.

Declaration of Conformity:

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

Comments and Explanations:

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

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



2. Administration Data

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

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

Applicant	
Company Name	NOTHING TECHNOLOGY LIMITED
Address	Bedford House, 21A John Street, London, United Kingdom WC1N 2BF

Manufacturer	
Company Name	NOTHING TECHNOLOGY LIMITED
Address	Bedford House, 21A John Street, London, United Kingdom WC1N 2BF

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 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Smart Phone
Brand Name	cmf by NOTHING
Model Name	A001
FCC ID	2AZEQ-A001
IMEI Code	Sample 1: IMEI 1: 353560160035784 IMEI 2: 353560160035792 Sample 2: IMEI 1: 353560160043689 IMEI 2: 353560160043697
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz 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 n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA/HSUPA DC-HSDPA HSPA+ (16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM 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/ax VHT20/VHT40/HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac/ax VHT20/VHT40/VHT80/HE20/HE40/HE80 Bluetooth BR/EDR/LE NFC: ASK



HW Version	SM683_MB_T1
SW Version	Nothing OS 3.2
GSM / (E)GPRS Dual 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). 4. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12. 5. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). 6. The device implements Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table. 7. For WLAN when transmit simultaneously together with WWAN/BT antenna, the device power will be reduced power at head conditions. For WLAN transmitter, while the device WLAN is transmitting simultaneously with the WWAN/BT antenna and Proximity sensors trigger, the device power will be reduced power at and body-worn/extremity exposure conditions. 8. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission. 9. This device supports HPUE mode for 5GNR n41 only. 10. For 5GNR EN-DC mode, standalone SAR performed for 5GNR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively. 11. There are two samples, the difference between them refer to the A001_Operational Description of Product Equality Declaration which is exhibit separately. According to the difference, sample 1 was chosen to perform full test and sample 2 verified the worst case of sample 1. 12. This device has NFC function and the NFC SAR report will be separately submitted. 13. 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
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 30
	n71	FDD	15	5, 10, 15
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	20, 30, 40, 60, 80, 100
SA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20
	n12	FDD	15	5, 10, 15
	n66	FDD	15	5, 10, 15, 20, 30
	n71	FDD	15	5, 10, 15
	n38	TDD	30	20, 30, 40
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	20, 30, 40, 60, 80, 100

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																													
FCC ID	2AZEQ-A001																																																																												
Equipment Name	Smart 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 17: 704 MHz ~ 716 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 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 17: 5MHz, 10MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 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																																																																												
LTE Voice / Data requirements	Voice and Data																																																																												
LTE Release Version	R15																																																																												
CA Support	Supported, Uplink and Downlink																																																																												
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
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QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																																						
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																						
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																																						
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																																						
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																																						
256 QAM	≥ 1						≤ 5																																																																						
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																												
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																												
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism; head/body-worn/hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 13.																																																																												
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 13.																																																																												
LTE Carrier Aggregation Additional Information	1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 3 carriers in the downlink and 2 carriers in the uplink.																																																																												



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				
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				
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				
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560				
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704				
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711				
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)					
L	23755		706.5		23780		709					
M	23790		710		23790		710					
H	23825		713.5		23800		711					



LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5		
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5		
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5		
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580	37850	2580		
M	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595		
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610	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)	Ch. #	Freq. (MHz)		
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506	39750	2506		
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5	40185	2549.5		
M	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593		
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5	41055	2636.5		
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680	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)	Ch. #	Freq. (MHz)		
L	133147	665.5	133172	668	133197	670.5	133222	673	133222	673		
M	133247	675.5	133272	678	133297	680.5	133322	683	133322	683		
H	133447	695.5	133422	693	133397	690.5	133372	688	133372	688		
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)	Ch. #	Freq. (MHz)		
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560	55340	3560		
LM	55810	3607	55815	3607.5	55820	3608	55830	3609	55830	3609		
MH	56170	3643	56165	3642.5	56160	3642	56150	3641	56150	3641		
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690	56640	3690		

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

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 4	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 66	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 17			Yes	Yes		
LTE Band 38			Yes	Yes	Yes	Yes
LTE Band 41			Yes	Yes	Yes	Yes

2) LTE Bands tune up:

Band	Ant	Full	DSI11	DSI12	DSI13	DSI14	DSI15	DSI16	DSI17	DSI18	DSI19
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit
LTE Band 66/4	Ant 1	24.5	22	21.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 66/4	Ant 2	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 66/4	Ant 4	24.5	19	18.5	24.5	24.5	22	21	24.5	24.5	22
LTE Band 12/17	Ant 0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 12/17	Ant 4	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 41/38	Ant 1	24.5	19.5	19	24.5	23	24.5	23	24.5	24.5	22.5
LTE Band 41/38	Ant 2	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24	22.5	22.5
LTE Band 41/38	Ant 4	24.5	20	19.5	24.5	24.5	24.5	24.5	24.5	24.5	23.5

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

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 4	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 66	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 17			Yes	Yes		

2) LTE Bands tune up:

Band	Ant	Full	DSI11	DSI12	DSI13	DSI14	DSI15	DSI16	DSI17	DSI18	DSI19
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit
LTE Band 66/4	Ant 1	24.5	21.5	20	24.5	24.5	24.5	24.5	24.5	24.5	23
LTE Band 66/4	Ant 2	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	23.5
LTE Band 66/4	Ant 4	24.5	18.5	17	24.5	24.5	21	19	24.5	23.5	20.5
LTE Band 12/17	Ant 0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 12/17	Ant 4	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5

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 n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz
Channel Bandwidth	The detail please refers to section 4.1 5G NR 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 B5/12/71
LTE Anchor Bands for n5	LTE B2/7/66
LTE Anchor Bands for n7	LTE B4/5/66
LTE Anchor Bands for n41	LTE B66/71
LTE Anchor Bands for n66	LTE B2/5/7/12/71
LTE Anchor Bands for n71	LTE B2/4/48/66
LTE Anchor Bands for n77	LTE B2/5/12/41/66

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band								
NR Band 2								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900

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

NR Band 7								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510
M	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560

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

NR Band 66										
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz	
	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	345000	1725
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353000	1765

NR Band 71 SCS15KHz							
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Freq. (MHz)
L	133100	665.5	133600	668	134100	670.5	
M	136100	680.5	136100	680.5	136100	680.5	
H	139100	695.5	138600	693	138100	690.5	



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

NR Band 41																		
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	535998	2679.99	534996	2674.98	534000	2670	531996	2659.98	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

NR Band 77												
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647334	3710.01	647668	3715.02	648000	3720	648668	3730.02	649334	3740.01	650000	3750
M	656000	3840	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840
H	664666	3969.99	664332	3964.98	664000	3960	663332	3949.98	662666	3939.99	662000	3930

For <3450 MHz ~ 3550 MHz >

NR Band 77												
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630668	3460.02	631000	3465	631334	3470.01	632000	3480	632668	3490.02		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636000	3540	635666	3534.99	635332	3529.98	634666	3519.99	634000	3510		

<For NR Overlap Bands Description>

1) NR Bands BW

Band	Duplex	SCS(KHz)	Bandwidths(BW)
FR1 n38	TDD	30	20, 30, 40
FR1 n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100

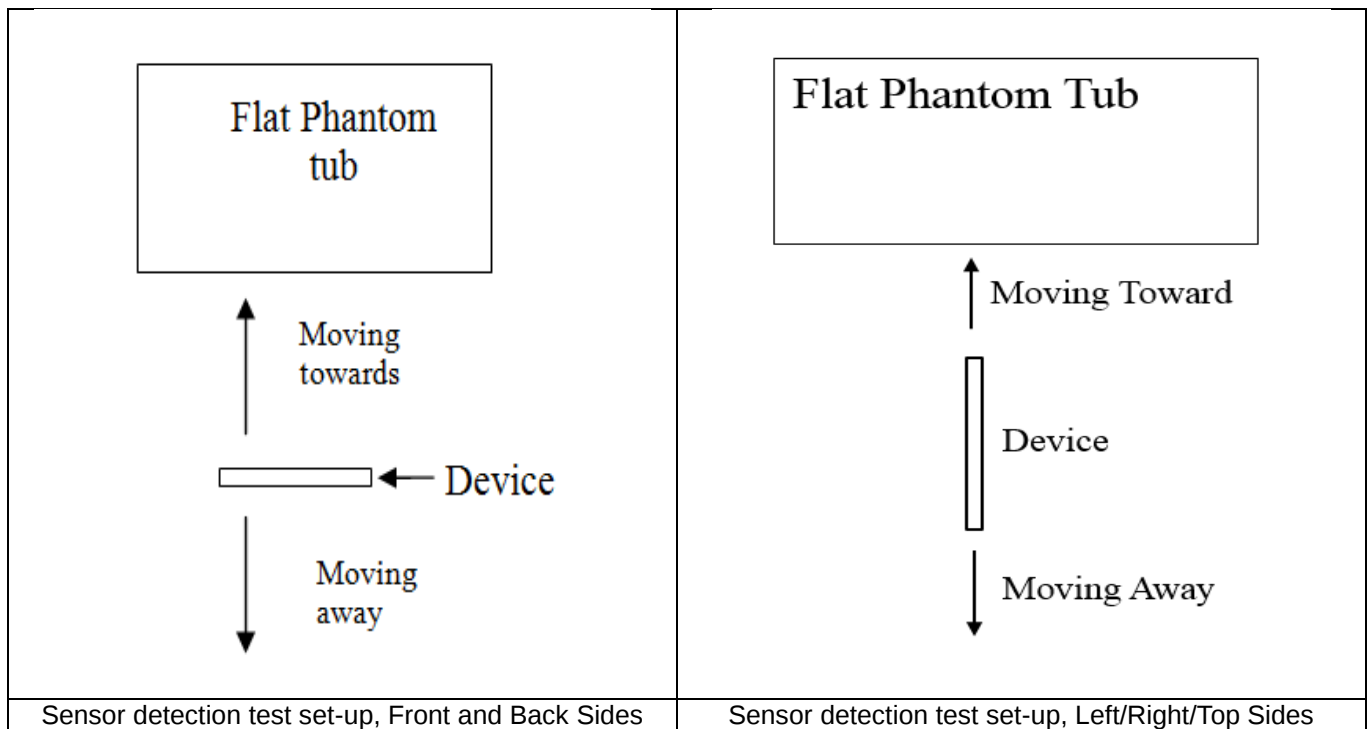
2) NR SA Bands Tune up:

Band	Ant	Full	DSI11	DSI12	DSI13	DSI14	DSI15	DSI16	DSI17	DSI18	DSI19
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit
n41	Ant 1	26	17	16.5	22	20.5	22	20.5	24.5	23.5	20
n38	Ant 1	24.5	17	16.5	22	20.5	22	20.5	24.5	23.5	20
n41	Ant 2	26	26	26	26	26	26	26	21	19.5	21.5
n38	Ant 2	24.5	24.5	24.5	24.5	24.5	24.5	24.5	21	19.5	21.5
n41	Ant 4	26	18.5	17.5	26	26	22.5	20.5	26	25.5	21
n38	Ant 4	24.5	18.5	17.5	24.5	24.5	22.5	20.5	24.5	24.5	21

5. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (5850MHz) and lowest frequency (1750MHz) was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top end and at the middle of the Left and right end of the phone are utilized to determine when the device comes in proximity of the user's body or finger or hand at the front or back or right or left or top side of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna.
3. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or left or right or top side of the device use a detection threshold distance. When front/back/right/left/top sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
4. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.



<Sensor on for ANT1>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Left Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	7	9	14	16	14	16

<Sensor on for ANT4>

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	12	14	19	21	8	10	19	21

<Sensor on for ANT6>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Right Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	9	11	15	17	16	18

6. RF Exposure Limits

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

7. Specific Absorption Rate (SAR)

7.1 Introduction

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

7.2 SAR Definition

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

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

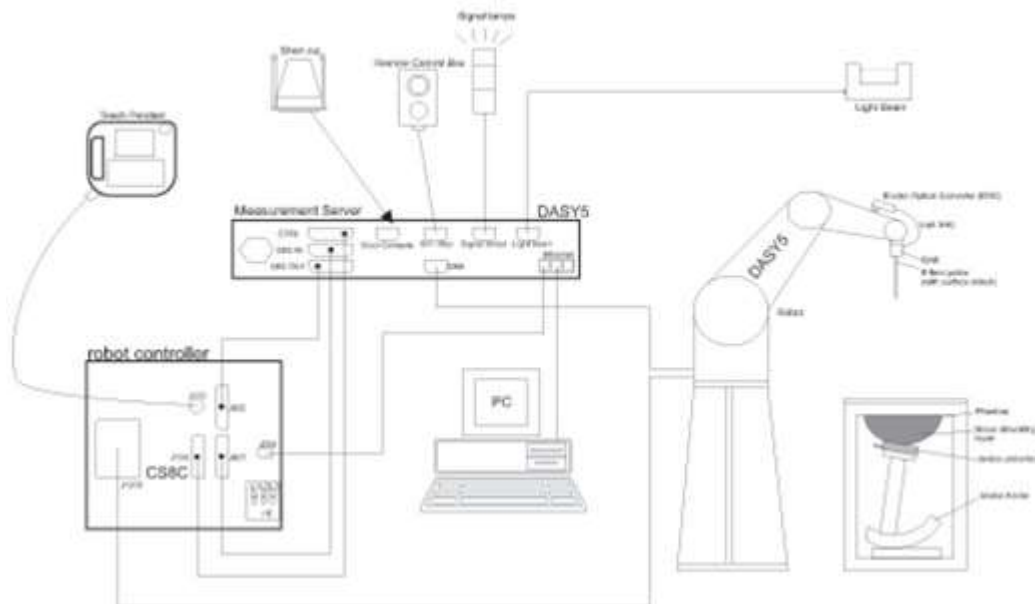
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

8. System Description and Setup

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



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

8.1 E-Field Probe

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

<EX3DV4 Probe>

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

8.2 Data Acquisition Electronics (DAE)

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

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



Photo of DAE

8.3 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

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

8.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

9. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

9.1 Spatial Peak SAR Evaluation

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

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

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

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

9.2 Power Reference Measurement

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

9.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in 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.

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

9.4 Zoom Scan

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

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

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm *	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

9.5 Volume Scan Procedures

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

9.6 Power Drift Monitoring

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



10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	Feb. 24, 2022	Feb. 22, 2025
SPEAG	835MHz System Validation Kit	D835V2	4d162	Dec. 13, 2024	Dec. 12, 2025
SPEAG	1750MHz System Validation Kit	D1750V2	1137	Oct. 15, 2024	Oct. 14, 2025
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	Mar. 30, 2022	Mar. 28, 2025
SPEAG	2450MHz System Validation Kit	D2450V2	924	Nov. 03, 2023	Nov. 02, 2026
SPEAG	2600MHz System Validation Kit	D2600V2	1008	Aug. 15, 2024	Aug. 14, 2025
SPEAG	3500MHz System Validation Kit	D3500V2	1076	May 09, 2022	May 07, 2025
SPEAG	3700MHz System Validation Kit	D3700V2	1037	May 09, 2022	May 07, 2025
SPEAG	3900MHz System Validation Kit	D3900V2	1022	Aug. 18, 2022	Aug. 17, 2025
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	Sep. 23, 2022	Sep. 21, 2025
SPEAG	Data Acquisition Electronics	DAE4	1437	Mar. 14, 2024	Mar. 13, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7576	Oct. 10, 2024	Oct. 09, 2025
SPEAG	SAM Twin Phantom	QD 000 P40 CD	1671	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Jul. 05, 2024	Jul. 04, 2025
Anritsu	Radio communication analyzer	MT8820C	6201341952	Dec. 26, 2024	Dec. 25, 2025
Anritsu	Radio communication analyzer	MT8821C	6262314715	Jul. 04, 2024	Jul. 03, 2025
Anritsu	Radio communication analyzer	MT8821C	6272278319	Jul. 03, 2024	Jul. 02, 2025
Agilent	Wireless Communication Test Set	E5515C	MY50267224	Jul. 03, 2024	Jul. 02, 2025
Keysight	Network Analyzer	E5071C	MY46523671	Oct. 15, 2024	Oct. 14, 2025
Speag	Dielectric Assessment KIT	DAK-3.5	1071	Feb. 19, 2024	Feb. 18, 2025
Agilent	Signal Generator	N5181A	MY50145381	Dec. 26, 2024	Dec. 25, 2025
Anritsu	Power Sensor	MA2411B	1306099	Oct. 15, 2024	Oct. 14, 2025
Anritsu	Power Meter	ML2495A	1349001	Oct. 15, 2024	Oct. 14, 2025
Anritsu	Power Sensor	MA2411B	1218010	Oct. 14, 2024	Oct. 13, 2025
Anritsu	Power Meter	ML2495A	1339473	Dec. 26, 2024	Dec. 25, 2025
R&S	Power Sensor	NRP50S	101254	Apr. 08, 2024	Apr. 07, 2025
R&S	Power Sensor	NRP8S	109228	Apr. 08, 2024	Apr. 07, 2025
R&S	CBT BLUETOOTH TESTER	CBT	100963	Dec. 26, 2024	Dec. 25, 2025
R&S	Spectrum Analyzer	FSP7	100818	Jul. 04, 2024	Jul. 03, 2025
TES	Hygrometer	1310	200505600	Jul. 08, 2024	Jul. 07, 2025
Anymetre	Thermo-Hygrometer	JR593	2015030903	Dec. 28, 2024	Dec. 27, 2025
Anymetre	Thermo-Hygrometer	JR593	2015102801	Dec. 28, 2024	Dec. 27, 2025
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	
Jinkexinhua	Attenuator	10db-8G	N/A	Note 1	

Note:

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

11. System Verification

11.1 Tissue Simulating Liquids

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



Fig 11.1 Photo of Liquid Height for Head SAR



Fig 11.2 Photo of Liquid Height for Body SAR

11.2 Tissue Verification

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

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

Simulating Liquid for 5GHz, Manufactured by SPEAG

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



<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	Head	22.6	0.921	43.500	0.89	41.90	3.48	3.82	±5	2025/1/2
750	Head	22.4	0.912	43.039	0.89	41.90	2.47	2.72	±5	2025/2/3
835	Head	22.5	0.930	42.551	0.90	41.50	3.33	2.53	±5	2025/1/4
835	Head	22.7	0.937	42.776	0.90	41.50	4.11	3.07	±5	2025/2/3
1750	Head	22.5	1.356	41.225	1.37	40.10	-1.02	2.81	±5	2025/1/5
1750	Head	22.5	1.350	41.171	1.37	40.10	-1.46	2.67	±5	2025/2/4
1900	Head	22.7	1.433	39.615	1.40	40.00	2.36	-0.96	±5	2025/1/8
1900	Head	22.4	1.435	40.945	1.40	40.00	2.50	2.36	±5	2025/2/5
2450	Head	22.4	1.788	37.863	1.80	39.20	-0.67	-3.41	±5	2025/1/10
2450	Head	22.4	1.801	40.269	1.80	39.20	0.06	2.73	±5	2025/2/6
2600	Head	22.6	1.899	37.661	1.96	39.00	-3.11	-3.43	±5	2025/1/11
2600	Head	22.4	1.913	40.026	1.96	39.00	-2.40	2.63	±5	2025/2/7
3500	Head	22.4	2.895	36.655	2.91	37.90	-0.52	-3.28	±5	2025/1/13
3500	Head	22.9	2.853	37.185	2.91	37.90	-1.96	-1.89	±5	2025/2/8
3700	Head	22.4	3.051	36.395	3.12	37.70	-2.21	-3.46	±5	2025/1/14
3700	Head	22.6	3.007	36.942	3.12	37.70	-3.62	-2.01	±5	2025/2/10
3900	Head	22.6	3.195	36.180	3.33	37.51	-4.05	-3.55	±5	2025/1/16
3900	Head	22.5	3.171	36.718	3.33	37.51	-4.77	-2.11	±5	2025/2/12
5250	Head	22.5	4.547	37.235	4.71	35.95	-3.46	3.57	±5	2025/1/19
5250	Head	22.4	4.523	36.971	4.71	35.95	-3.97	2.84	±5	2025/2/13
5600	Head	22.7	4.922	36.071	5.07	35.50	-2.92	1.61	±5	2025/1/21
5600	Head	22.3	4.870	36.569	5.07	35.50	-3.94	3.01	±5	2025/2/14
5750	Head	22.3	5.035	34.831	5.22	35.35	-3.54	-1.47	±5	2025/1/23
5750	Head	22.4	5.049	36.206	5.22	35.35	-3.28	2.42	±5	2025/2/15



11.3 System Performance Check Results

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

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2025/1/2	750	Head	250	1087	7576	1437	2.150	8.580	8.6	0.23
2025/2/3	750	Head	250	1087	7576	1437	2.090	8.580	8.36	-2.56
2025/1/4	835	Head	250	4d162	7576	1437	2.330	9.080	9.32	2.64
2025/2/3	835	Head	250	4d162	7576	1437	2.460	9.080	9.84	8.37
2025/1/5	1750	Head	250	1137	7576	1437	9.330	36.800	37.32	1.41
2025/2/4	1750	Head	250	1137	7576	1437	8.820	36.800	35.28	-4.13
2025/1/8	1900	Head	250	5d118	7576	1437	9.800	39.300	39.2	-0.25
2025/2/5	1900	Head	250	5d118	7576	1437	9.800	39.300	39.2	-0.25
2025/1/10	2450	Head	250	924	7576	1437	13.100	52.300	52.4	0.19
2025/2/6	2450	Head	250	924	7576	1437	12.700	52.300	50.8	-2.87
2025/1/11	2600	Head	250	1008	7576	1437	14.400	55.700	57.6	3.41
2025/2/7	2600	Head	250	1008	7576	1437	13.000	55.700	52	-6.64
2025/1/13	3500	Head	100	1076	7576	1437	6.780	66.200	67.8	2.42
2025/2/8	3500	Head	100	1076	7576	1437	6.310	66.200	63.1	-4.68
2025/1/14	3700	Head	100	1037	7576	1437	6.970	66.700	69.7	4.50
2025/2/10	3700	Head	100	1037	7576	1437	6.370	66.700	63.7	-4.50
2025/1/16	3900	Head	100	1022	7576	1437	6.740	66.400	67.4	1.51
2025/2/12	3900	Head	100	1022	7576	1437	7.070	66.400	70.7	6.48
2025/1/19	5250	Head	100	1113	7576	1437	8.170	81.500	81.7	0.25
2025/2/13	5250	Head	100	1113	7576	1437	7.850	81.500	78.5	-3.68
2025/1/21	5600	Head	100	1113	7576	1437	8.510	82.600	85.1	3.03
2025/2/14	5600	Head	100	1113	7576	1437	8.760	82.600	87.6	6.05
2025/1/23	5750	Head	100	1113	7576	1437	8.310	80.800	83.1	2.85
2025/2/15	5750	Head	100	1113	7576	1437	7.970	80.800	79.7	-1.36

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2025/1/2	750	Head	250	1087	7576	1437	1.350	5.650	5.4	-4.42
2025/2/3	750	Head	250	1087	7576	1437	1.400	5.650	5.6	-0.88
2025/1/4	835	Head	250	4d162	7576	1437	1.490	5.850	5.96	1.88
2025/2/3	835	Head	250	4d162	7576	1437	1.570	5.850	6.28	7.35
2025/1/5	1750	Head	250	1137	7576	1437	4.860	19.600	19.44	-0.82
2025/2/4	1750	Head	250	1137	7576	1437	4.750	19.600	19	-3.06
2025/1/8	1900	Head	250	5d118	7576	1437	5.010	20.400	20.04	-1.76
2025/2/5	1900	Head	250	5d118	7576	1437	5.050	20.400	20.2	-0.98
2025/1/10	2450	Head	250	924	7576	1437	6.220	24.500	24.88	1.55
2025/2/6	2450	Head	250	924	7576	1437	5.780	24.500	23.12	-5.63
2025/1/11	2600	Head	250	1008	7576	1437	6.230	25.300	24.92	-1.50
2025/2/7	2600	Head	250	1008	7576	1437	5.940	25.300	23.76	-6.09
2025/1/13	3500	Head	100	1076	7576	1437	2.650	25.500	26.5	3.92
2025/2/8	3500	Head	100	1076	7576	1437	2.430	25.500	24.3	-4.71
2025/1/14	3700	Head	100	1037	7576	1437	2.540	24.600	25.4	3.25
2025/2/10	3700	Head	100	1037	7576	1437	2.370	24.600	23.7	-3.66
2025/1/16	3900	Head	100	1022	7576	1437	2.390	23.700	23.9	0.84
2025/2/12	3900	Head	100	1022	7576	1437	2.500	23.700	25	5.49
2025/1/19	5250	Head	100	1113	7576	1437	2.350	23.300	23.5	0.86
2025/2/13	5250	Head	100	1113	7576	1437	2.240	23.300	22.4	-3.86
2025/1/21	5600	Head	100	1113	7576	1437	2.470	23.700	24.7	4.22
2025/2/14	5600	Head	100	1113	7576	1437	2.490	23.700	24.9	5.06
2025/1/23	5750	Head	100	1113	7576	1437	2.370	23.000	23.7	3.04
2025/2/15	5750	Head	100	1113	7576	1437	2.270	23.000	22.7	-1.30

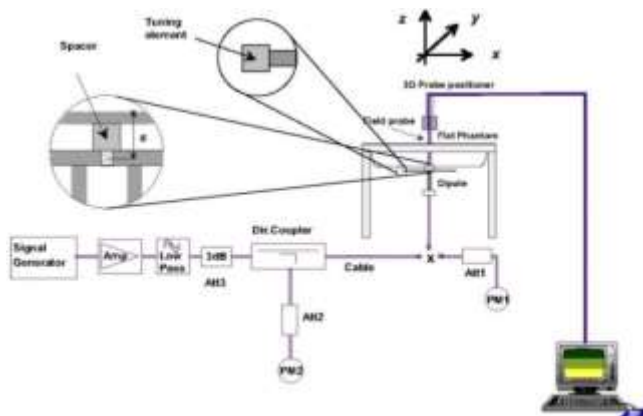

Fig 11.3.1 System Performance Check Setup

Fig 11.3.2 Setup Photo

12. RF Exposure Positions

12.1 Ear and handset reference point

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

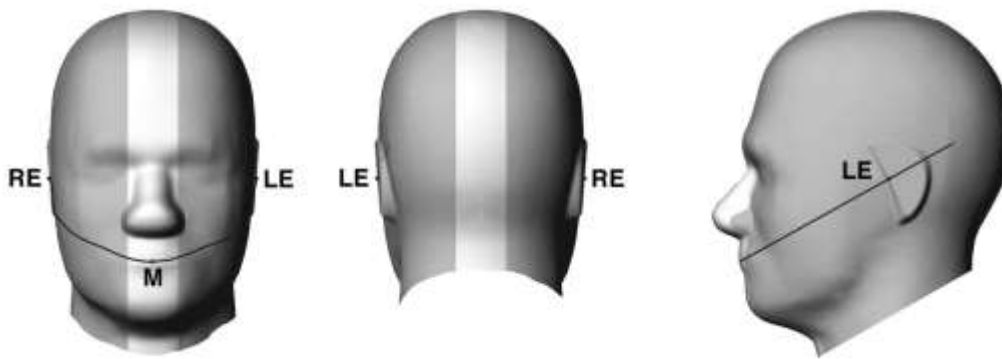


Fig 12.1.1 Front, back, and side views of SAM twin phantom

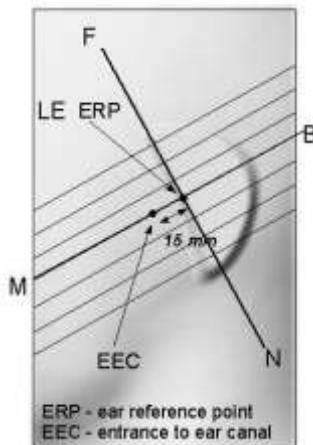


Fig 12.1.2 Close-up side view of phantom showing the ear region.

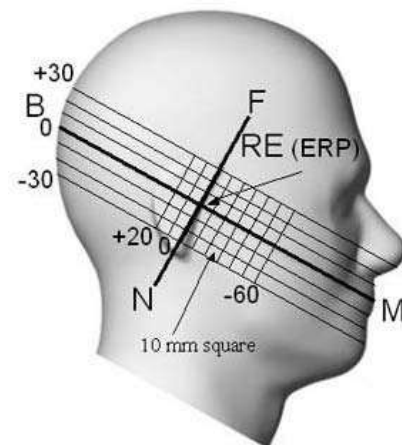


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

12.2 Definition of the cheek position

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

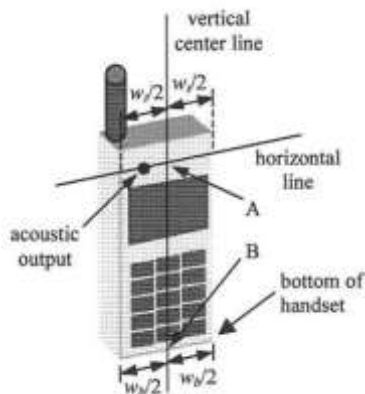


Fig 12.2.1 Handset vertical and horizontal reference lines—“fixed case”

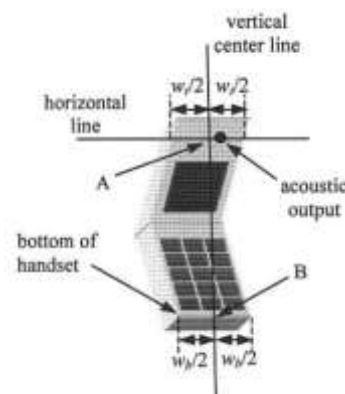


Fig 12.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

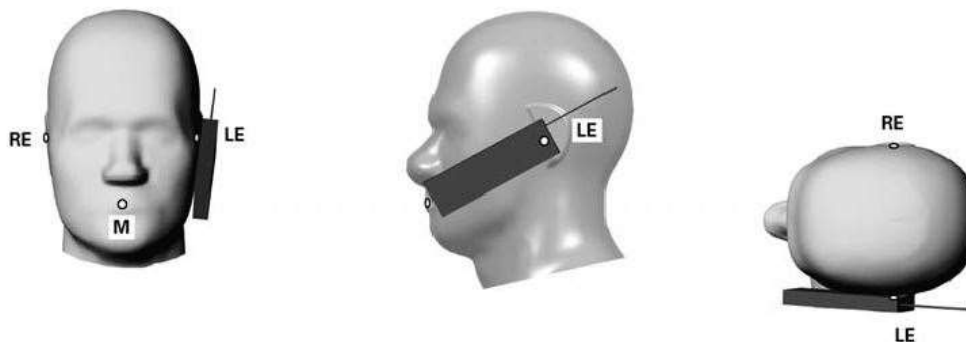


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

12.3 Definition of the tilt position

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

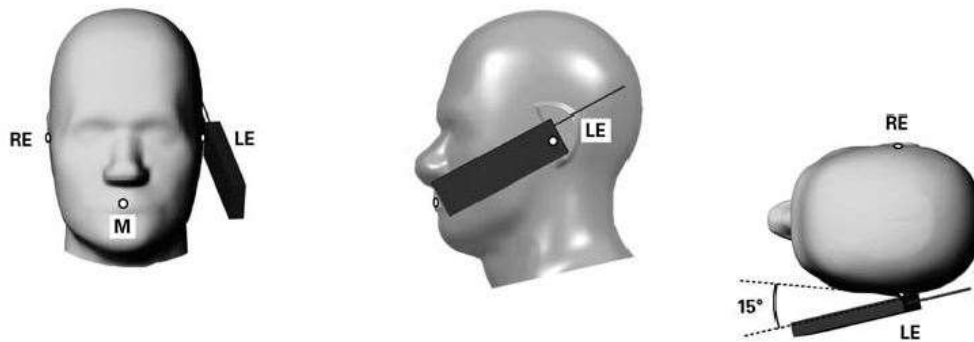


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

12.4 Body Worn Accessory

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

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

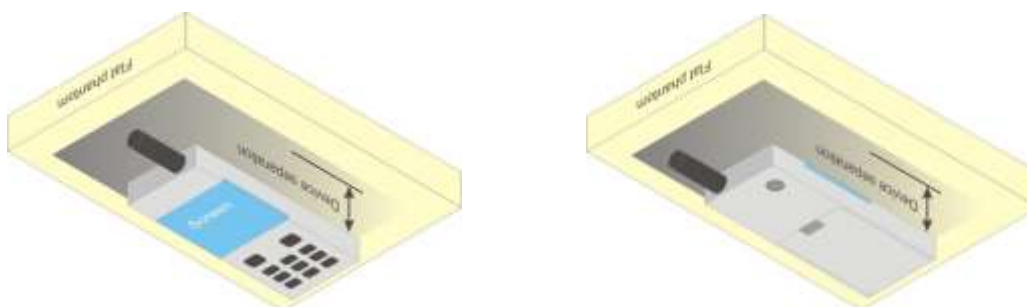


Fig 12.4 Body Worn Position

12.5 Product Specific 10g SAR Exposure

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

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

12.6 Wireless Router

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

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

13. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<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 $\leq \frac{1}{4}$ 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 HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (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 DPCCH, 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:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (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 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.

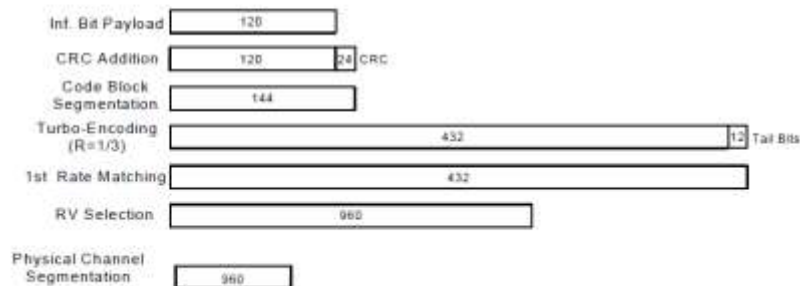
The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

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

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

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

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

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

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

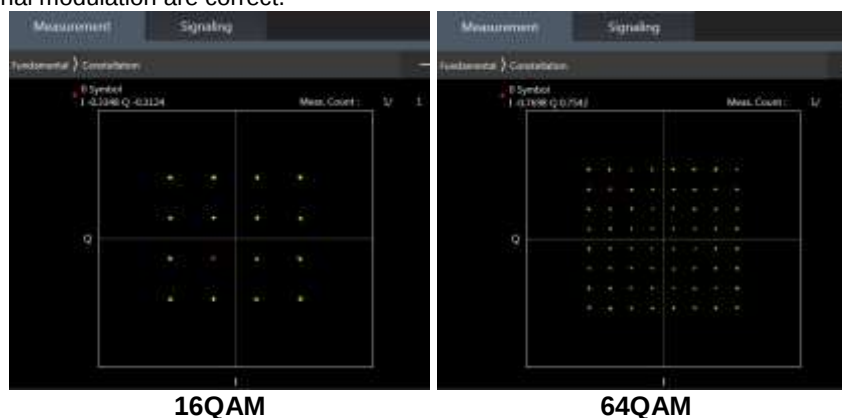
Setup Configuration
<WCDMA Conducted Power>
General Note:

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

<LTE 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 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 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 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 B17 / B4 / B38 SAR test was covered by B12 / B66 / 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 should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

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

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

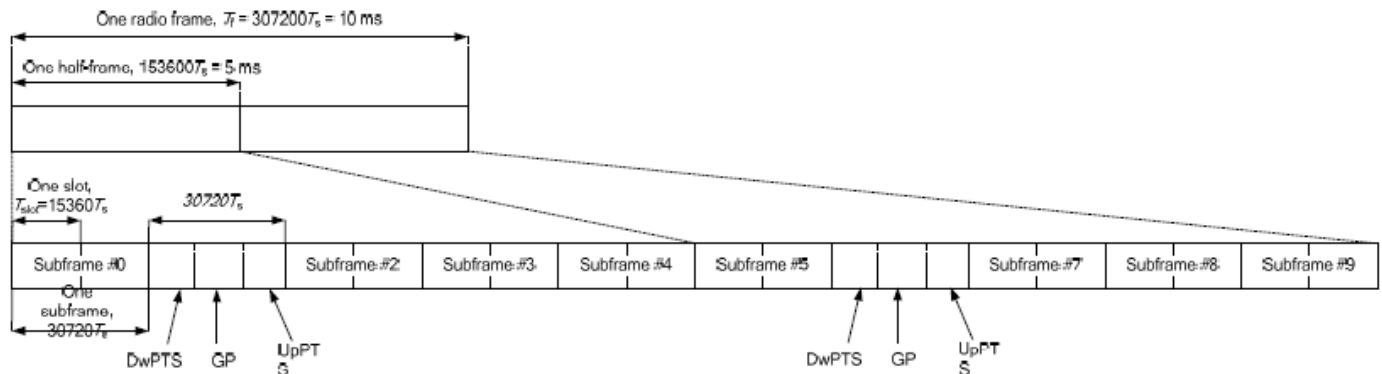


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

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

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

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

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

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

The highest duty factor is resulted from:

For LTE TDD Power class 3

- 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.



<LTE Carrier Aggregation>

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

General Note:

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

2CC Downlink Carrier Aggregation				3CC Downlink Carrier Aggregation			
Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset
1	CA_5A-7A	7A		1	CA_41D	41C	
2	CA_7C		3CC-3	2	CA_41A-41C	41A	
3	CA_38C	38C		3	CA_7C-66A	7A,66A	
4	CA_41C	41C	3CC-2	4	CA_5A-7C	7A	
5	CA_7A-7A			5	CA_4A-7C	4A,7A	
6	CA_41A-41A	41A		6	CA_2A-66C		
7	CA_66B			7	CA_5A-66A-66A		
8	CA_66C		3CC-6	8	CA_12A-66A-66A		
9	CA_66A-66A		3CC-7	9	CA_12A-66C		
10	CA_4A-7A	4A,7A		10	CA_2C-66A		
11	CA_7A-66A	7A,66A	3CC-11	11	CA_7A-66A-66A	7A,66A	
12	CA_2A-2A		3CC-12	12	CA_2A-2A-71A		
13	CA_2A-4A		3CC-14	13	CA_4A-4A-71A		
14	CA_2A-5A			14	CA_2A-4A-71A		
15	CA_2A-66A		3CC-15	15	CA_2A-66A-71A	66A	
16	CA_4A-4A	4A-4A	3CC-13	16	CA_66A-66A-71A	66A-66A	
17	CA_4A-5A	4A		17	CA_66C-71A	66C	
18	CA_5A-66A	66A	3CC-7	18			
19	CA_12A-66A	66A	3CC-8	19			
20	CA_2A-12A			20			
21	CA_2C		3CC-10	21			
22	CA_4A-12A	4A		22			
23	CA_2A-7A			23			
24	CA_2A-17A			24			
25	CA_4A-17A	4A		25			
26	CA_2A-71A	2A	3CC-12	26			
27	CA_4A-71A		3CC-13	27			
28	CA_66A-71A	66A	3CC-16	28			

LTE Carrier Aggregation Conducted Power (Downlink)

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

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

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Band 2/4/7/38/41/66 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

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

4X4 MIMO	Band
	LTE Band 2/4/7/38/41/66

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
38C	Ant 1/2/4
41C	Ant 1/2/4

<Intra-band>
General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B38/41 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. The device supports uplink carrier aggregation 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 the 3GPP requirement.
- iii. 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.
- iv. 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.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n12/n66/n71/n38/n41/n77 is SA mode.
2. 5G NR n2/n5/n7/n66/n71/n41/n77 is NSA 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 test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
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. This device supports HPUE mode for 5G NR n41 only.

<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 Band	LTE Ant	NR Band	NR Ant
DC_7A_n5A	B7	ANT4	N5	ANT0
	B7	ANT1	N5	ANT0
	B7	ANT2	N5	ANT0
	B7	ANT1	N5	ANT4
	B7	ANT2	N5	ANT4
DC_41A_n77A	B41	ANT4	N77	ANT7
	B41	ANT4	N77	ANT1
	B41	ANT4	N77	ANT3
	B41	ANT4	N77	ANT5
	B41	ANT1	N77	ANT7
	B41	ANT1	N77	ANT3
	B41	ANT1	N77	ANT5
	B41	ANT2	N77	ANT7
	B41	ANT2	N77	ANT1
	B41	ANT2	N77	ANT3
DC_66A_n7A	B66	ANT2	N7	ANT4
	B66	ANT2	N7	ANT1
	B66	ANT1	N7	ANT4
DC_5A_n7A	B5	ANT0	N7	ANT4
	B5	ANT0	N7	ANT1
	B5	ANT0	N7	ANT2
	B5	ANT4	N7	ANT1
	B5	ANT4	N7	ANT2
DC_12A_n66A	B12	ANT0	N66	ANT4
	B12	ANT0	N66	ANT1
	B12	ANT0	N66	ANT2
	B12	ANT4	N66	ANT1



	B12	ANT4	N66	ANT2
DC_66A_n5A	B66	ANT4	N5	ANT0
	B66	ANT1	N5	ANT0
	B66	ANT2	N5	ANT0
	B66	ANT1	N5	ANT4
	B66	ANT2	N5	ANT4
	B66	ANT2	N5	ANT4
DC_5A_n66A	B5	ANT0	N66	ANT4
	B5	ANT0	N66	ANT1
	B5	ANT0	N66	ANT2
	B5	ANT4	N66	ANT1
	B5	ANT4	N66	ANT2
DC_66A_n77A	B66	ANT4	N77	ANT7
	B66	ANT4	N77	ANT1
	B66	ANT4	N77	ANT3
	B66	ANT4	N77	ANT5
	B66	ANT1	N77	ANT7
	B66	ANT1	N77	ANT3
	B66	ANT1	N77	ANT5
	B66	ANT2	N77	ANT7
	B66	ANT2	N77	ANT1
	B66	ANT2	N77	ANT3
	B66	ANT2	N77	ANT5
DC_2A_n77A	B2	ANT4	N77	ANT7
	B2	ANT4	N77	ANT1
	B2	ANT4	N77	ANT3
	B2	ANT4	N77	ANT5
	B2	ANT1	N77	ANT7
	B2	ANT1	N77	ANT3
	B2	ANT1	N77	ANT5
	B2	ANT2	N77	ANT7
	B2	ANT2	N77	ANT1
	B2	ANT2	N77	ANT3
	B2	ANT2	N77	ANT5
DC_12A_n77A	B12	ANT0	N77	ANT7
	B12	ANT0	N77	ANT1
	B12	ANT0	N77	ANT3
	B12	ANT0	N77	ANT5
	B12	ANT4	N77	ANT7
	B12	ANT4	N77	ANT1
	B12	ANT4	N77	ANT3
DC_5A_n77A	B5	ANT4	N77	ANT5
	B5	ANT0	N77	ANT7
	B5	ANT0	N77	ANT1
	B5	ANT0	N77	ANT3
	B5	ANT0	N77	ANT5
	B5	ANT4	N77	ANT7
	B5	ANT4	N77	ANT1
	B5	ANT4	N77	ANT3
DC_2A_n5A	B5	ANT4	N77	ANT5
	B2	ANT4	N5	ANT0
	B2	ANT1	N5	ANT0
	B2	ANT2	N5	ANT0
	B2	ANT1	N5	ANT4
DC_5A_n2A	B2	ANT2	N5	ANT4
	B5	ANT0	N2	ANT4
	B5	ANT0	N2	ANT1
	B5	ANT0	N2	ANT2
	B5	ANT4	N2	ANT1
	B5	ANT4	N2	ANT2



DC_12A_n2A	B12	ANT0	N2	ANT4
	B12	ANT0	N2	ANT1
	B12	ANT0	N2	ANT2
	B12	ANT4	N2	ANT1
	B12	ANT4	N2	ANT2
DC_7A_n66A	B7	ANT2	N66	ANT4
	B7	ANT2	N66	ANT1
	B7	ANT1	N66	ANT4
DC_2A_n66A	B2	ANT2	N66	ANT4
	B2	ANT2	N66	ANT1
	B2	ANT1	N66	ANT4
DC_4A_n7A	B4	ANT2	N7	ANT4
	B4	ANT2	N7	ANT1
	B4	ANT1	N7	ANT4
DC_66A_n41A	B66	ANT2	N41	ANT4
	B66	ANT2	N41	ANT1
	B66	ANT1	N41	ANT4
DC_66A_n71A	B66	ANT4	N71	ANT0
	B66	ANT1	N71	ANT0
	B66	ANT2	N71	ANT0
	B66	ANT1	N71	ANT4
	B66	ANT2	N71	ANT4
DC_48A_n71A	B48	ANT7	N71	ANT0
	B48	ANT1	N71	ANT0
	B48	ANT3	N71	ANT0
	B48	ANT5	N71	ANT0
	B48	ANT7	N71	ANT4
	B48	ANT1	N71	ANT4
	B48	ANT3	N71	ANT4
	B48	ANT5	N71	ANT4
DC_2A_n71A	B2	ANT4	N71	ANT0
	B2	ANT1	N71	ANT0
	B2	ANT2	N71	ANT0
	B2	ANT1	N71	ANT4
	B2	ANT2	N71	ANT4
DC_4A_n71A	B4	ANT4	N71	ANT0
	B4	ANT1	N71	ANT0
	B4	ANT2	N71	ANT0
	B4	ANT1	N71	ANT4
	B4	ANT2	N71	ANT4
DC_71A_n41A	B71	ANT0	N41	ANT4
	B71	ANT0	N41	ANT1
	B71	ANT0	N41	ANT2
	B71	ANT4	N41	ANT1
	B71	ANT4	N41	ANT2
DC_71A_n2A	B71	ANT0	N2	ANT4
	B71	ANT0	N2	ANT1
	B71	ANT0	N2	ANT2
	B71	ANT4	N2	ANT1
	B71	ANT4	N2	ANT2
DC_71A_n66A	B71	ANT0	N66	ANT4
	B71	ANT0	N66	ANT1
	B71	ANT0	N66	ANT2
	B71	ANT4	N66	ANT1
	B71	ANT4	N66	ANT2

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

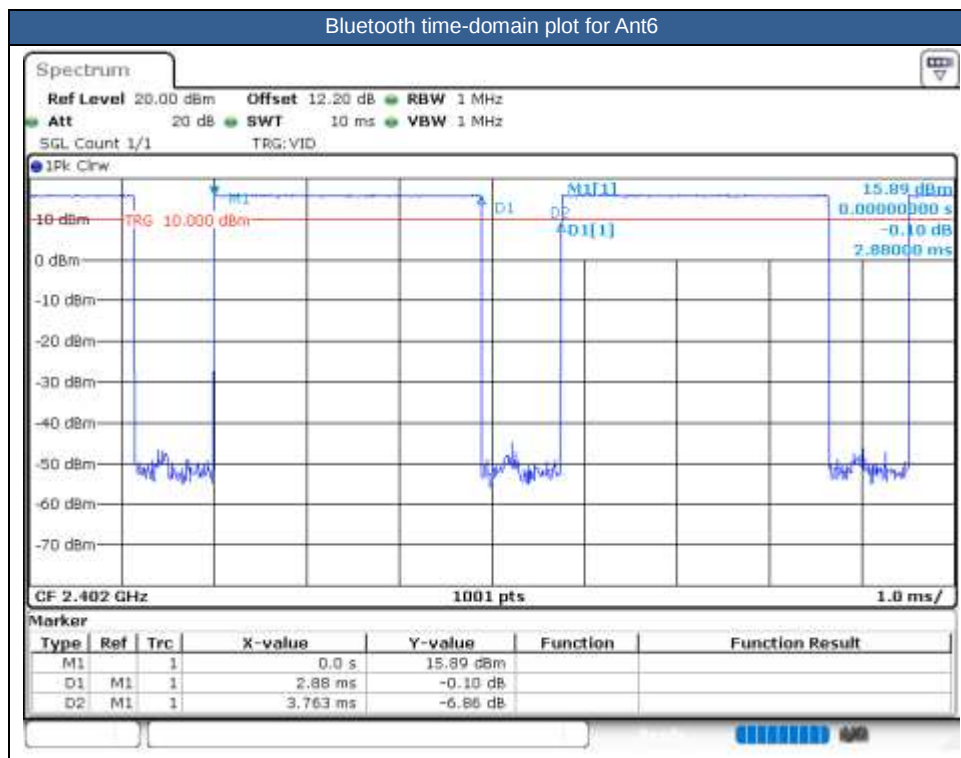
1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default 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. Per April 2019 TCB workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing.
7. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
8. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
9. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel
10. 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.

<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 76.53% for Ant6 as following figure, according to Oct. 2016 TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation





14. Antenna Location

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

15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN/Bluetooth signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table.
5. For WLAN when transmit simultaneously together with WWAN/BT antenna, the device power will be reduced power at head conditions. For WLAN transmitter, while the device WLAN is transmitting simultaneously with the WWAN/BT antenna and Proximity sensors trigger, the device power will be reduced power at and body-worn/extremity exposure conditions.
6. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
7. 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 GSM1900, WCDMA Band II/IV, LTE Band 2/4/7/38/41/48/66, 5GNR n2/n7/n38/n41/n66/n77, WLAN 5.2/5.8GHz therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
8. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
9. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
10. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions

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

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM 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 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 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 B17 / B4 / B38 SAR test was covered by B12 / B66 / 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/n12/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.

ECI status description:

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

ECI	Trigger Conditions	Antenna No.	Exposure conditions	
ECI11	Receiver on	All Ant	Head Standalone	Head all Position
ECI12	Receiver on+WLAN/BT	All Ant	Head Simultaneous	Head all Position
ECI19	Hotspot on	All Ant	Hotspot	Body all Position
ECI13	Receiver off/Sensor on	Ant 1	Body worn/Extremity Standalone	See by section 5
ECI15	Receiver off/Sensor on	Ant 4	Body worn/Extremity Standalone	See by section 5
ECI17	Receiver off	All Ant	Body worn/Extremity Standalone	No sensor Position
ECI14	Receiver off/Sensor on+WLAN/BT	Ant 1	Body worn/Extremity Simultaneous	See by section 5
ECI16	Receiver off/Sensor on+WLAN/BT	Ant 4	Body worn/Extremity Simultaneous	See by section 5
ECI18	Receiver off+WLAN/BT	All Ant	Body worn/Extremity Simultaneous	No sensor Position



15.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 11	133297	680.5	1	23.41	24.50	1.285	-	-	-0.14	0.108	0.139
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 11	133297	680.5	1	23.41	24.50	1.285	-	-	0.08	0.061	0.078
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 11	133297	680.5	1	23.41	24.50	1.285	-	-	-0.16	0.089	0.114
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 11	133297	680.5	1	23.41	24.50	1.285	-	-	0.04	0.055	0.071
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	ECI 11	133297	680.5	1	22.39	23.50	1.291	-	-	-0.16	0.091	0.118
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	ECI 11	133297	680.5	1	22.39	23.50	1.291	-	-	0.06	0.046	0.059
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	ECI 11	133297	680.5	1	22.39	23.50	1.291	-	-	0.06	0.077	0.099
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	ECI 11	133297	680.5	1	22.39	23.50	1.291	-	-	-0.13	0.045	0.058
01	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	133297	680.5	1	23.69	24.50	1.205	-	-	-0.04	0.505	0.609
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	133297	680.5	1	23.69	24.50	1.205	-	-	-0.11	0.488	0.588
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 11	133297	680.5	1	23.69	24.50	1.205	-	-	0.08	0.288	0.347
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 11	133297	680.5	1	23.69	24.50	1.205	-	-	0.03	0.280	0.337
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	133297	680.5	1	22.71	23.50	1.199	-	-	0.1	0.382	0.458
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	133297	680.5	1	22.71	23.50	1.199	-	-	0.07	0.376	0.451
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 11	133297	680.5	1	22.71	23.50	1.199	-	-	0.05	0.229	0.275
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 11	133297	680.5	1	22.71	23.50	1.199	-	-	-0.14	0.222	0.266
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 11	23095	707.5	1	23.50	24.50	1.259	-	-	-0.14	0.105	0.132
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 11	23095	707.5	1	23.50	24.50	1.259	-	-	0.16	0.067	0.084
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 11	23095	707.5	1	23.50	24.50	1.259	-	-	0.14	0.087	0.110
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 11	23095	707.5	1	23.50	24.50	1.259	-	-	0.01	0.043	0.054
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI 11	23095	707.5	1	22.30	23.50	1.318	-	-	0.12	0.087	0.115
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI 11	23095	707.5	1	22.30	23.50	1.318	-	-	0.08	0.055	0.073
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI 11	23095	707.5	1	22.30	23.50	1.318	-	-	0.05	0.066	0.087
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI 11	23095	707.5	1	22.30	23.50	1.318	-	-	0.06	0.038	0.050
02	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	23095	707.5	1	23.72	24.50	1.197	-	-	-0.04	0.430	0.515
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	23095	707.5	1	23.72	24.50	1.197	-	-	-0.01	0.401	0.480
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 11	23095	707.5	1	23.72	24.50	1.197	-	-	-0.11	0.239	0.286
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 11	23095	707.5	1	23.72	24.50	1.197	-	-	-0.04	0.226	0.270
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 4	ECI 11	23095	707.5	1	22.60	23.50	1.230	-	-	0.1	0.352	0.433
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 4	ECI 11	23095	707.5	1	22.60	23.50	1.230	-	-	-0.14	0.309	0.380
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 4	ECI 11	23095	707.5	1	22.60	23.50	1.230	-	-	0.13	0.196	0.241
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 4	ECI 11	23095	707.5	1	22.60	23.50	1.230	-	-	0.04	0.184	0.226
	FR1 n71	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	ECI 11	136100	680.5	1	23.28	24.50	1.324	-	-	0.13	0.114	0.151
	FR1 n71	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	ECI 11	136100	680.5	1	23.28	24.50	1.324	-	-	-0.12	0.063	0.083
	FR1 n71	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	ECI 11	136100	680.5	1	23.28	24.50	1.324	-	-	0.04	0.092	0.122
	FR1 n71	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	ECI 11	136100	680.5	1	23.28	24.50	1.324	-	-	-0.09	0.046	0.061
	FR1 n71	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 0	ECI 11	136100	680.5	1	23.25	24.50	1.334	-	-	0.11	0.110	0.147
	FR1 n71	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 0	ECI 11	136100	680.5	1	23.25	24.50	1.334	-	-	-0.03	0.061	0.081
	FR1 n71	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 0	ECI 11	136100	680.5	1	23.25	24.50	1.334	-	-	-0.01	0.089	0.119
	FR1 n71	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 0	ECI 11	136100	680.5	1	23.25	24.50	1.334	-	-	0.01	0.044	0.059
03	FR1 n71	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	136100	680.5	1	23.35	24.50	1.303	-	-	-0.02	0.547	0.713
	FR1 n71	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	136100	680.5	1	23.35	24.50	1.303	-	-	-0.12	0.532	0.693
	FR1 n71	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	136100	680.5	1	23.35	24.50	1.303	-	-	-0.1	0.346	0.451
	FR1 n71	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	136100	680.5	1	23.35	24.50	1.303	-	-	-0.07	0.315	0.410
	FR1 n71_NSA	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	136100	680.5	1	20.88	22.00	1.294	-	-	0.05	0.300	0.388
	FR1 n71_NSA	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	136100	680.5	1	20.88	22.00	1.294	-	-	-0.1	0.195	0.252
	FR1 n71_NSA	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 12	136100	680.5	1	19.40	20.50	1.288	-	-	0.17	0.219	0.282
	FR1 n71_NSA	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 12	136100	680.5	1	19.40	20.50	1.288	-	-	0.05	0.212	0.273
	FR1 n71_NSA	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 12	136100	680.5	1	19.40	20.50	1.288	-	-	-0.08	0.143	0.184
	FR1 n71	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	136100	680.5	1	23.28	24.50	1.324	-	-	0.02	0.530	0.702



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n71	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	136100	680.5	1	23.28	24.50	1.324	-	-	0.12	0.520	0.689
	FR1 n71	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	136100	680.5	1	23.28	24.50	1.324	-	-	0.09	0.322	0.426
	FR1 n71	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	136100	680.5	1	23.28	24.50	1.324	-	-	0.07	0.300	0.397
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	ECI 11	141500	707.5	1	23.30	24.50	1.318	-	-	0.07	0.113	0.149
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	ECI 11	141500	707.5	1	23.30	24.50	1.318	-	-	0.02	0.060	0.079
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	ECI 11	141500	707.5	1	23.30	24.50	1.318	-	-	-0.05	0.082	0.108
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	ECI 11	141500	707.5	1	23.30	24.50	1.318	-	-	0.14	0.052	0.069
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 0	ECI 11	141500	707.5	1	23.29	24.50	1.321	-	-	0.07	0.106	0.140
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 0	ECI 11	141500	707.5	1	23.29	24.50	1.321	-	-	-0.12	0.059	0.078
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 0	ECI 11	141500	707.5	1	23.29	24.50	1.321	-	-	-0.06	0.081	0.107
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 0	ECI 11	141500	707.5	1	23.29	24.50	1.321	-	-	0.06	0.049	0.065
04	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	141500	707.5	1	23.36	24.50	1.300	-	-	-0.09	0.465	0.605
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	141500	707.5	1	23.36	24.50	1.300	-	-	0.13	0.453	0.589
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	141500	707.5	1	23.36	24.50	1.300	-	-	-0.01	0.270	0.351
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	141500	707.5	1	23.36	24.50	1.300	-	-	0.08	0.262	0.341
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	141500	707.5	1	23.30	24.50	1.318	-	-	-0.04	0.447	0.589
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	141500	707.5	1	23.30	24.50	1.318	-	-	0.05	0.435	0.573
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	141500	707.5	1	23.30	24.50	1.318	-	-	-0.07	0.260	0.343
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	141500	707.5	1	23.30	24.50	1.318	-	-	0.01	0.251	0.331
835MHz																					
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 0	ECI 11	189	836.4	1	27.23	28.50	1.340	-	-	0.06	0.206	0.276
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	ECI 11	189	836.4	1	27.23	28.50	1.340	-	-	-0.06	0.126	0.169
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	ECI 11	189	836.4	1	27.23	28.50	1.340	-	-	0.01	0.147	0.197
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	ECI 11	189	836.4	1	27.23	28.50	1.340	-	-	-0.07	0.086	0.115
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	ECI 11	189	836.4	1	25.30	26.50	1.318	-	-	-0.05	0.712	0.939
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 4	ECI 11	189	836.4	1	25.30	26.50	1.318	-	-	-0.11	0.697	0.919
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 4	ECI 11	189	836.4	1	25.30	26.50	1.318	-	-	-0.08	0.488	0.643
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 4	ECI 11	189	836.4	1	25.30	26.50	1.318	-	-	-0.02	0.454	0.598
05	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	ECI 11	128	824.2	1	25.06	26.50	1.393	-	-	0.07	0.711	0.991
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	ECI 11	251	848.8	1	25.27	26.50	1.327	-	-	0.12	0.545	0.723
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 4	ECI 11	128	824.2	1	25.06	26.50	1.393	-	-	0.07	0.680	0.947
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 4	ECI 11	251	848.8	1	25.27	26.50	1.327	-	-	0.01	0.515	0.684
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	ECI 11	4182	836.4	1	23.95	25.00	1.274	-	-	-0.02	0.233	0.297
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	ECI 11	4182	836.4	1	23.95	25.00	1.274	-	-	0.02	0.149	0.190
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	ECI 11	4182	836.4	1	23.95	25.00	1.274	-	-	0.04	0.179	0.228
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	ECI 11	4182	836.4	1	23.95	25.00	1.274	-	-	0.15	0.110	0.140
06	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 11	4182	836.4	1	22.85	23.50	1.161	-	-	-0.11	0.863	1.002
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 11	4182	836.4	1	22.85	23.50	1.161	-	-	0.08	0.800	0.929
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	ECI 11	4182	836.4	1	22.85	23.50	1.161	-	-	-0.01	0.576	0.669
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	ECI 11	4182	836.4	1	22.85	23.50	1.161	-	-	-0.04	0.531	0.617
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 11	4132	826.4	1	22.82	23.50	1.169	-	-	0.07	0.818	0.957
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 11	4233	846.6	1	22.77	23.50	1.183	-	-	-0.02	0.807	0.955
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 11	4132	826.4	1	22.82	23.50	1.169	-	-	0.04	0.792	0.926
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 11	4233	846.6	1	22.77	23.50	1.183	-	-	0.11	0.782	0.925
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 11	20525	836.5	1	23.87	25.00	1.297	-	-	-0.02	0.224	0.291
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 11	20525	836.5	1	23.87	25.00	1.297	-	-	-0.02	0.136	0.176
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 11	20525	836.5	1	23.87	25.00	1.297	-	-	0.09	0.164	0.213
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 11	20525	836.5	1	23.87	25.00	1.297	-	-	-0.08	0.101	0.131
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI 11	20525	836.5	1	22.77	24.00	1.327	-	-	0.1	0.180	0.239
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI 11	20525	836.5	1	22.77	24.00	1.327	-	-	-0.12	0.111	0.147
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI 11	20525	836.5	1	22.77	24.00	1.327	-	-	0.12	0.140	0.186
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI 11	20525	836.5	1	22.77	24.00	1.327	-	-	-0.03	0.077	0.102



FCC SAR Test Report

Report No. : FA4N1331

07	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	20525	836.5	1	22.65	24.00	1.365	-	-	-0.03	0.859	1.172
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	20525	836.5	2	22.65	24.00	1.365	-	-	0.07	0.761	1.038
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	20525	836.5	1	22.65	24.00	1.365	-	-	-0.01	0.806	1.100
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 11	20525	836.5	1	22.65	24.00	1.365	-	-	0.02	0.561	0.766
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 11	20525	836.5	1	22.65	24.00	1.365	-	-	-0.01	0.525	0.716
	LTE Band 5 NSA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 12	20525	836.5	1	20.05	21.50	1.396	-	-	0.06	0.482	0.673
	LTE Band 5 NSA	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 12	20525	836.5	1	20.05	21.50	1.396	-	-	0.02	0.456	0.637
	LTE Band 5 NSA	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 12	20525	836.5	1	20.05	21.50	1.396	-	-	0.14	0.333	0.465
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 4	ECI 11	20525	836.5	1	22.63	24.00	1.371	-	-	-0.09	0.845	1.158
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 4	ECI 11	20525	836.5	1	22.63	24.00	1.371	-	-	0.11	0.794	1.088
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 4	ECI 11	20525	836.5	1	22.63	24.00	1.371	-	-	-0.16	0.558	0.765
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 4	ECI 11	20525	836.5	1	22.63	24.00	1.371	-	-	0.12	0.519	0.711
	LTE Band 5	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	20525	836.5	1	22.60	24.00	1.380	-	-	-0.05	0.847	1.169
	LTE Band 5	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	20525	836.5	1	22.60	24.00	1.380	-	-	0.08	0.742	1.024
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 11	26865	831.5	1	23.92	24.50	1.143	-	-	0.04	0.184	0.210
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 11	26865	831.5	1	23.92	24.50	1.143	-	-	-0.02	0.116	0.133
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 11	26865	831.5	1	23.92	24.50	1.143	-	-	-0.13	0.142	0.162
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 11	26865	831.5	1	23.92	24.50	1.143	-	-	0.11	0.089	0.102
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	ECI 11	26865	831.5	1	22.88	23.50	1.153	-	-	-0.03	0.151	0.174
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	ECI 11	26865	831.5	1	22.88	23.50	1.153	-	-	-0.14	0.095	0.110
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	ECI 11	26865	831.5	1	22.88	23.50	1.153	-	-	-0.13	0.118	0.136
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	ECI 11	26865	831.5	1	22.88	23.50	1.153	-	-	0.16	0.071	0.082
08	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	26865	831.5	1	22.71	23.50	1.199	-	-	-0.06	0.869	1.042
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	26865	831.5	1	22.71	23.50	1.199	-	-	-0.13	0.804	0.964
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 11	26865	831.5	1	22.71	23.50	1.199	-	-	0.14	0.551	0.661
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 11	26865	831.5	1	22.71	23.50	1.199	-	-	-0.14	0.521	0.625
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 4	ECI 11	26865	831.5	1	22.66	23.50	1.213	-	-	0.13	0.828	1.005
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 4	ECI 11	26865	831.5	1	22.66	23.50	1.213	-	-	0.15	0.786	0.954
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 4	ECI 11	26865	831.5	1	22.66	23.50	1.213	-	-	-0.05	0.549	0.666
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 4	ECI 11	26865	831.5	1	22.66	23.50	1.213	-	-	0.06	0.514	0.624
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 4	ECI 11	26865	831.5	1	22.62	23.50	1.225	-	-	0.07	0.812	0.994
	LTE Band 26	15M	QPSK	75	0	-	Right Tilted	0mm	Ant 4	ECI 11	26865	831.5	1	22.62	23.50	1.225	-	-	-0.05	0.776	0.950
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	ECI 11	167300	836.5	1	23.70	25.00	1.349	-	-	0.03	0.222	0.299
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	ECI 11	167300	836.5	1	23.70	25.00	1.349	-	-	-0.09	0.122	0.165
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	ECI 11	167300	836.5	1	23.70	25.00	1.349	-	-	0.02	0.164	0.221
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	ECI 11	167300	836.5	1	23.70	25.00	1.349	-	-	-0.09	0.099	0.134
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	ECI 11	167300	836.5	1	23.62	25.00	1.374	-	-	-0.12	0.217	0.298
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	ECI 11	167300	836.5	1	23.62	25.00	1.374	-	-	0.05	0.118	0.162
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	ECI 11	167300	836.5	1	23.62	25.00	1.374	-	-	0.04	0.159	0.218
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	ECI 11	167300	836.5	1	23.62	25.00	1.374	-	-	-0.08	0.095	0.131
09	FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	167300	836.5	1	22.58	24.00	1.387	-	-	-0.07	0.776	1.076
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	167300	836.5	1	22.58	24.00	1.387	-	-	-0.13	0.715	0.992
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	167300	836.5	1	22.58	24.00	1.387	-	-	-0.11	0.501	0.695
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	167300	836.5	1	22.58	24.00	1.387	-	-	0.06	0.453	0.628
	FR1 n5_NSA	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	167300	836.5	1	18.59	20.00	1.384	-	-	0.12	0.313	0.433
	FR1 n5_NSA	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	167300	836.5	1	18.59	20.00	1.384	-	-	-0.13	0.275	0.380
	FR1 n5_NSA	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	167300	836.5	1	18.59	20.00	1.384	-	-	-0.11	0.203	0.281
	FR1 n5_NSA	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 12	167300	836.5	1	17.10	18.50	1.380	-	-	0.14	0.221	0.305
	FR1 n5_NSA	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 12	167300	836.5	1	17.10	18.50	1.380	-	-	0.05	0.198	0.273
	FR1 n5_NSA	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 12	167300	836.5	1	17.10	18.50	1.380	-	-	0.08	0.142	0.196
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	167300	836.5	1	22.52	24.00	1.406	-	-	0.09	0.753	1.059
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	167300	836.5	1	22.52	24.00	1.406	-	-	-0.1	0.692	0.973
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	167300	836.5	1	22.52	24.00	1.406	-	-	-0.06	0.492	0.692
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	167300	836.5	1	22.52	24.00	1.406	-	-	-0.06	0.433	0.609
	FR1 n5	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	167300	836.5	1	22.45	24.00	1.429	-	-	0.01	0.737	1.053



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n5	20M	QPSK	100	0	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	167300	836.5	1	22.45	24.00	1.429	-	-	0.05	0.688	0.983
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 11	1413	1732.6	1	17.89	19.00	1.291	-	-	0.07	0.692	0.894
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 11	1413	1732.6	1	17.89	19.00	1.291	-	-	-0.01	0.826	1.067
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	ECI 11	1413	1732.6	1	17.89	19.00	1.291	-	-	-0.03	0.505	0.652
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	ECI 11	1413	1732.6	1	17.89	19.00	1.291	-	-	-0.04	0.609	0.786
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 11	1312	1712.4	1	17.87	19.00	1.297	-	-	0.03	0.758	0.983
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 11	1513	1752.6	1	17.83	19.00	1.309	-	-	0.01	0.629	0.823
10	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 11	1312	1712.4	1	17.87	19.00	1.297	-	-	-0.02	0.891	1.156
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 11	1513	1752.6	1	17.83	19.00	1.309	-	-	0.05	0.739	0.967
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI 11	1413	1732.6	1	20.38	21.50	1.294	-	-	0.09	0.742	0.960
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	ECI 11	1413	1732.6	1	20.38	21.50	1.294	-	-	0.06	0.244	0.316
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI 11	1413	1732.6	1	20.38	21.50	1.294	-	-	0.02	0.288	0.373
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	ECI 11	1413	1732.6	1	20.38	21.50	1.294	-	-	-0.14	0.225	0.291
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI 11	1312	1712.4	1	20.35	21.50	1.303	-	-	-0.1	0.780	1.016
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI 11	1513	1752.6	1	20.33	21.50	1.309	-	-	-0.05	0.738	0.966
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI 11	1413	1732.6	1	23.90	25.00	1.288	-	-	0.03	0.158	0.204
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI 11	1413	1732.6	1	23.90	25.00	1.288	-	-	-0.12	0.108	0.139
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI 11	1413	1732.6	1	23.90	25.00	1.288	-	-	-0.01	0.233	0.300
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI 11	1413	1732.6	1	23.90	25.00	1.288	-	-	-0.11	0.113	0.146
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	132322	1745	1	17.90	19.00	1.288	-	-	-0.11	0.617	0.795
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	132322	1745	1	17.90	19.00	1.288	-	-	-0.08	0.708	0.912
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 11	132322	1745	1	17.90	19.00	1.288	-	-	0.04	0.436	0.562
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 11	132322	1745	1	17.90	19.00	1.288	-	-	-0.02	0.535	0.689
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	132072	1720	1	17.85	19.00	1.303	-	-	-0.14	0.782	1.019
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	132572	1770	1	17.83	19.00	1.309	-	-	-0.15	0.665	0.871
	LTE Band 66 NSA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 12	132072	1720	1	15.79	17.00	1.321	-	-	-0.14	0.476	0.629
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	132322	1745	1	17.85	19.00	1.303	-	-	-0.14	0.605	0.788
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	132322	1745	1	17.85	19.00	1.303	-	-	-0.03	0.680	0.886
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 11	132322	1745	1	17.85	19.00	1.303	-	-	-0.05	0.421	0.549
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 11	132322	1745	1	17.85	19.00	1.303	-	-	0.16	0.520	0.678
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	132072	1720	1	17.83	19.00	1.309	-	-	-0.03	0.759	0.994
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	132572	1770	1	17.80	19.00	1.318	-	-	-0.02	0.656	0.865
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 11	132322	1745	1	17.82	19.00	1.312	-	-	0.14	0.690	0.905
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	132322	1745	1	21.00	22.00	1.259	-	-	0.11	0.784	0.987
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 11	132322	1745	1	21.00	22.00	1.259	-	-	-0.16	0.286	0.360
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 11	132322	1745	1	21.00	22.00	1.259	-	-	-0.15	0.331	0.417
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 11	132322	1745	1	21.00	22.00	1.259	-	-	0.06	0.254	0.320
11	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	132072	1720	1	20.95	22.00	1.274	-	-	-0.13	0.816	1.039
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	132572	1770	1	20.92	22.00	1.282	-	-	0.07	0.776	0.995
	LTE Band 66 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	132072	1720	1	20.40	21.50	1.288	-	-	0.09	0.706	0.910
	LTE Band 66 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 12	132072	1720	1	18.88	20.00	1.294	-	-	0.05	0.520	0.673
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	132322	1745	1	20.98	22.00	1.265	-	-	0.16	0.768	0.971
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 11	132322	1745	1	20.98	22.00	1.265	-	-	-0.13	0.278	0.352
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 11	132322	1745	1	20.98	22.00	1.265	-	-	-0.01	0.318	0.402
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 11	132322	1745	1	20.98	22.00	1.265	-	-	0.1	0.230	0.291
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	132072	1720	1	20.90	22.00	1.288	-	-	-0.14	0.766	0.987
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	132572	1770	1	20.88	22.00	1.294	-	-	0.06	0.759	0.982
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	ECI 11	132322	1745	1	20.91	22.00	1.285	-	-	-0.16	0.771	0.991
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI 11	132322	1745	1	23.48	24.50	1.265	-	-	-0.16	0.126	0.159
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI 11	132322	1745	1	23.48	24.50	1.265	-	-	-0.14	0.090	0.114
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 11	132322	1745	1	23.48	24.50	1.265	-	-	0.15	0.198	0.250
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI 11	132322	1745	1	23.48	24.50	1.265	-	-	0.02	0.097	0.123
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI 11	132322	1745	1	22.46	23.50	1.271	-	-	-0.15	0.101	0.128
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI 11	132322	1745	1	22.46	23.50	1.271	-	-	-0.12	0.069	0.088



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI 11	132322	1745	1	22.46	23.50	1.271	-	-	-0.1	0.157	0.199
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI 11	132322	1745	1	22.46	23.50	1.271	-	-	0.14	0.077	0.098
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	349000	1745	1	17.45	19.00	1.429	-	-	-0.09	0.774	1.106
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	349000	1745	1	17.45	19.00	1.429	-	-	-0.07	0.814	1.163
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	349000	1745	1	17.45	19.00	1.429	-	-	-0.05	0.545	0.779
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	349000	1745	1	17.45	19.00	1.429	-	-	0.03	0.674	0.963
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	349000	1745	1	13.00	14.50	1.413	-	-	0.03	0.282	0.398
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	349000	1745	1	13.00	14.50	1.413	-	-	0.02	0.296	0.418
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	349000	1745	1	13.00	14.50	1.413	-	-	0.17	0.197	0.278
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 12	349000	1745	1	11.48	13.00	1.419	-	-	-0.09	0.195	0.277
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 12	349000	1745	1	11.48	13.00	1.419	-	-	-0.07	0.199	0.282
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 12	349000	1745	1	11.48	13.00	1.419	-	-	-0.05	0.137	0.194
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	ECI 12	349000	1745	1	11.48	13.00	1.419	-	-	0.17	0.170	0.241
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	349000	1745	1	17.40	19.00	1.445	-	-	0.1	0.746	1.078
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	349000	1745	1	17.40	19.00	1.445	-	-	-0.06	0.792	1.145
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	349000	1745	1	17.40	19.00	1.445	-	-	0.07	0.537	0.776
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	349000	1745	1	17.40	19.00	1.445	-	-	-0.02	0.629	0.909
	FR1 n66	30M	QPSK	160	0	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	349000	1745	1	17.38	19.00	1.452	-	-	0.06	0.736	1.069
	FR1 n66	30M	QPSK	160	0	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	349000	1745	1	17.38	19.00	1.452	-	-	-0.04	0.782	1.136
	FR1 n66	30M	QPSK	160	0	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	349000	1745	1	17.38	19.00	1.452	-	-	0.01	0.623	0.905
12	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	349000	1745	1	21.33	22.50	1.309	-	-	-0.04	0.900	1.178
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI 11	349000	1745	1	21.33	22.50	1.309	-	-	-0.11	0.298	0.390
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI 11	349000	1745	1	21.33	22.50	1.309	-	-	0.12	0.340	0.445
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI 11	349000	1745	1	21.33	22.50	1.309	-	-	0.11	0.267	0.350
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	349000	1745	1	16.82	18.00	1.312	-	-	-0.05	0.308	0.404
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI 11	349000	1745	1	16.82	18.00	1.312	-	-	0.07	0.121	0.159
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 12	349000	1745	1	15.34	16.50	1.306	-	-	0.01	0.233	0.304
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI 12	349000	1745	1	15.34	16.50	1.306	-	-	0.02	0.093	0.121
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	349000	1745	1	21.27	22.50	1.327	-	-	-0.11	0.877	1.164
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 1	ECI 11	349000	1745	1	21.27	22.50	1.327	-	-	0.12	0.287	0.381
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 1	ECI 11	349000	1745	1	21.27	22.50	1.327	-	-	0.1	0.332	0.441
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 1	ECI 11	349000	1745	1	21.27	22.50	1.327	-	-	-0.07	0.257	0.341
	FR1 n66	30M	QPSK	160	0	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	349000	1745	1	21.24	22.50	1.337	-	-	-0.02	0.865	1.156
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	ECI 11	349000	1745	1	23.27	24.50	1.327	-	-	0.14	0.163	0.216
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	ECI 11	349000	1745	1	23.27	24.50	1.327	-	-	-0.08	0.120	0.159
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI 11	349000	1745	1	23.27	24.50	1.327	-	-	0.04	0.250	0.332
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	ECI 11	349000	1745	1	23.27	24.50	1.327	-	-	0.04	0.130	0.173
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 2	ECI 11	349000	1745	1	23.21	24.50	1.346	-	-	0.09	0.159	0.214
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 2	ECI 11	349000	1745	1	23.21	24.50	1.346	-	-	-0.15	0.115	0.155
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 2	ECI 11	349000	1745	1	23.21	24.50	1.346	-	-	-0.12	0.235	0.316
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 2	ECI 11	349000	1745	1	23.21	24.50	1.346	-	-	-0.04	0.125	0.168
1900MHz																					
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	ECI 11	810	1909.8	1	20.76	21.50	1.186	-	-	0.09	0.712	0.844
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 4	ECI 11	810	1909.8	1	20.76	21.50	1.186	-	-	-0.08	0.829	0.983
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 4	ECI 11	810	1909.8	1	20.76	21.50	1.186	-	-	-0.08	0.470	0.557
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 4	ECI 11	810	1909.8	1	20.76	21.50	1.186	-	-	-0.07	0.565	0.670
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	ECI 11	512	1850.2	1	20.72	21.50	1.197	-	-	0.03	0.411	0.492
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	ECI 11	661	1880	1	20.74	21.50	1.191	-	-	0.05	0.760	0.905
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 4	ECI 11	512	1850.2	1	20.72	21.50	1.197	-	-	0.12	0.461	0.552
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 4	ECI 11	661	1880	1	20.74	21.50	1.191	-	-	-0.07	0.853	1.016
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	ECI 11	810	1909.8	1	24.57	25.50	1.239	-	-	-0.14	0.795	0.985
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 1	ECI 11	810	1909.8	1	24.57	25.50	1.239	-	-	-0.08	0.276	0.342
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	ECI 11	810	1909.8	1	24.57	25.50	1.239	-	-	0.13	0.292	0.362



FCC SAR Test Report

Report No. : FA4N1331

	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 1	ECI 11	810	1909.8	1	24.57	25.50	1.239	-	-	-0.06	0.167	0.207
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	ECI 11	512	1850.2	1	24.55	25.50	1.245	-	-	0.15	0.809	1.007
13	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	ECI 11	661	1880	1	24.51	25.50	1.256	-	-	-0.09	0.840	1.055
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 2	ECI 11	810	1909.8	1	25.38	26.50	1.294	-	-	0.15	0.087	0.113
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 2	ECI 11	810	1909.8	1	25.38	26.50	1.294	-	-	-0.13	0.061	0.079
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 2	ECI 11	810	1909.8	1	25.38	26.50	1.294	-	-	-0.13	0.206	0.267
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 2	ECI 11	810	1909.8	1	25.38	26.50	1.294	-	-	0.05	0.051	0.066
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 11	9400	1880	1	15.58	16.50	1.236	-	-	-0.11	0.696	0.860
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 11	9400	1880	1	15.58	16.50	1.236	-	-	0.14	0.764	0.944
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	ECI 11	9400	1880	1	15.58	16.50	1.236	-	-	0.06	0.468	0.578
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	ECI 11	9400	1880	1	15.58	16.50	1.236	-	-	-0.1	0.574	0.709
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 11	9262	1852.4	1	15.56	16.50	1.242	-	-	0.07	0.406	0.504
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	ECI 11	9538	1907.6	1	15.55	16.50	1.245	-	-	0.01	0.725	0.902
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 11	9262	1852.4	1	15.56	16.50	1.242	-	-	-0.09	0.455	0.565
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	ECI 11	9538	1907.6	1	15.55	16.50	1.245	-	-	-0.1	0.814	1.013
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI 11	9400	1880	1	19.60	20.50	1.230	-	-	-0.15	0.796	0.979
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	ECI 11	9400	1880	1	19.60	20.50	1.230	-	-	-0.02	0.333	0.410
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI 11	9400	1880	1	19.60	20.50	1.230	-	-	0.16	0.362	0.445
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	ECI 11	9400	1880	1	19.60	20.50	1.230	-	-	-0.04	0.179	0.220
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI 11	9262	1852.4	1	19.30	20.50	1.318	-	-	-0.1	0.762	1.005
14	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI 11	9538	1907.6	1	19.52	20.50	1.253	-	-	-0.07	0.819	1.026
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI 11	9400	1880	1	24.10	25.00	1.230	-	-	-0.11	0.162	0.199
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI 11	9400	1880	1	24.10	25.00	1.230	-	-	-0.15	0.114	0.140
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI 11	9400	1880	1	24.10	25.00	1.230	-	-	-0.12	0.287	0.353
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI 11	9400	1880	1	24.10	25.00	1.230	-	-	-0.08	0.109	0.134
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	18900	1880	1	16.48	17.50	1.265	-	-	-0.07	0.800	1.012
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	18900	1880	1	16.48	17.50	1.265	-	-	0.1	0.894	1.131
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 11	18900	1880	1	16.48	17.50	1.265	-	-	0.04	0.503	0.636
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 11	18900	1880	1	16.48	17.50	1.265	-	-	0.02	0.628	0.794
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	18700	1860	1	16.40	17.50	1.288	-	-	0.08	0.629	0.810
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	19100	1900	1	16.47	17.50	1.268	-	-	-0.05	0.845	1.071
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	18700	1860	1	16.40	17.50	1.288	-	-	0.1	0.706	0.910
15	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	19100	1900	1	16.47	17.50	1.268	-	-	0.03	0.935	1.185
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	19100	1900	2	16.47	17.50	1.268	-	-	0.03	0.857	1.086
	LTE Band 2 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 12	19100	1900	1	13.89	15.00	1.291	-	-	0.02	0.472	0.609
	LTE Band 2 NSA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 12	19100	1900	1	13.89	15.00	1.291	-	-	0.14	0.546	0.705
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	18900	1880	1	16.46	17.50	1.271	-	-	0.03	0.764	0.971
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	18900	1880	1	16.46	17.50	1.271	-	-	0.03	0.846	1.075
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 11	18900	1880	1	16.46	17.50	1.271	-	-	-0.07	0.472	0.600
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 11	18900	1880	1	16.46	17.50	1.271	-	-	0.07	0.614	0.780
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	18700	1860	1	16.38	17.50	1.294	-	-	0.03	0.612	0.792
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	19100	1900	1	16.40	17.50	1.288	-	-	-0.1	0.825	1.063
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	18700	1860	1	16.38	17.50	1.294	-	-	0.05	0.695	0.899
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	19100	1900	1	16.40	17.50	1.288	-	-	0.09	0.893	1.150
	LTE Band 2	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 11	18900	1880	1	16.42	17.50	1.282	-	-	-0.12	0.756	0.969
	LTE Band 2	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 11	18900	1880	1	16.42	17.50	1.282	-	-	0.15	0.833	1.068
	LTE Band 2	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 4	ECI 11	18900	1880	1	16.42	17.50	1.282	-	-	0.02	0.622	0.798
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	18900	1880	1	20.00	21.00	1.259	-	-	-0.01	0.806	1.015
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 11	18900	1880	1	20.00	21.00	1.259	-	-	0.09	0.295	0.371
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 11	18900	1880	1	20.00	21.00	1.259	-	-	0.14	0.324	0.408
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 11	18900	1880	1	20.00	21.00	1.259	-	-	0.11	0.177	0.223
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	18700	1860	1	19.95	21.00	1.274	-	-	0.06	0.755	0.961
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	19100	1900	1	19.93	21.00	1.279	-	-	-0.15	0.779	0.997



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 2 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	18900	1880	1	19.39	20.50	1.291	-	-	-0.01	0.742	0.958
	LTE Band 2 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 12	18900	1880	1	17.88	19.00	1.294	-	-	0.06	0.520	0.673
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	18900	1880	1	19.98	21.00	1.265	-	-	-0.11	0.785	0.993
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 11	18900	1880	1	19.98	21.00	1.265	-	-	0.03	0.286	0.362
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 11	18900	1880	1	19.98	21.00	1.265	-	-	0.09	0.321	0.406
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 11	18900	1880	1	19.98	21.00	1.265	-	-	-0.1	0.174	0.220
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	18700	1860	1	19.91	21.00	1.285	-	-	-0.04	0.732	0.941
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	19100	1900	1	19.90	21.00	1.288	-	-	0.02	0.772	0.995
	LTE Band 2	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	ECI 11	18900	1880	1	19.90	21.00	1.288	-	-	0.1	0.776	1.000
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI 11	18900	1880	1	23.55	24.50	1.245	-	-	0.07	0.135	0.168
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI 11	18900	1880	1	23.55	24.50	1.245	-	-	-0.13	0.123	0.153
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 11	18900	1880	1	23.55	24.50	1.245	-	-	0.05	0.220	0.274
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI 11	18900	1880	1	23.55	24.50	1.245	-	-	0.11	0.118	0.147
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI 11	18900	1880	1	22.45	23.50	1.274	-	-	0.02	0.102	0.130
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI 11	18900	1880	1	22.45	23.50	1.274	-	-	0.14	0.095	0.121
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI 11	18900	1880	1	22.45	23.50	1.274	-	-	0.04	0.173	0.220
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI 11	18900	1880	1	22.45	23.50	1.274	-	-	0.13	0.088	0.112
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	376000	1880	1	15.94	17.50	1.432	-	-	0.14	0.656	0.940
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	376000	1880	1	15.94	17.50	1.432	-	-	-0.04	0.735	1.053
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	376000	1880	1	15.94	17.50	1.432	-	-	0.14	0.484	0.693
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	376000	1880	1	15.94	17.50	1.432	-	-	0.08	0.551	0.789
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	372000	1860	1	15.85	17.50	1.462	-	-	0.09	0.576	0.842
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	380000	1900	1	15.88	17.50	1.452	-	-	0.01	0.713	1.035
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	372000	1860	1	15.85	17.50	1.462	-	-	-0.11	0.606	0.886
16	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	380000	1900	1	15.88	17.50	1.452	-	-	-0.03	0.800	1.162
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	380000	1900	1	11.50	13.00	1.413	-	-	0.01	0.252	0.356
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	380000	1900	1	11.50	13.00	1.413	-	-	0.08	0.276	0.390
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	376000	1880	1	11.58	13.00	1.387	-	-	0.01	0.171	0.237
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 12	380000	1900	1	9.55	11.00	1.396	-	-	0.05	0.166	0.232
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 12	380000	1900	1	9.55	11.00	1.396	-	-	0.12	0.198	0.276
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 12	376000	1880	1	9.66	11.00	1.361	-	-	0.09	0.112	0.152
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	ECI 12	376000	1880	1	9.66	11.00	1.361	-	-	0.01	0.123	0.167
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	376000	1880	1	15.83	17.50	1.469	-	-	-0.09	0.633	0.930
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	376000	1880	1	15.83	17.50	1.469	-	-	0.09	0.709	1.041
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 4	ECI 11	376000	1880	1	15.83	17.50	1.469	-	-	0.13	0.460	0.676
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 4	ECI 11	376000	1880	1	15.83	17.50	1.469	-	-	0.15	0.537	0.789
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	372000	1860	1	15.80	17.50	1.479	-	-	0.06	0.542	0.802
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	380000	1900	1	15.81	17.50	1.476	-	-	0.15	0.701	1.034
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	372000	1860	1	15.80	17.50	1.479	-	-	0.06	0.581	0.859
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	380000	1900	1	15.81	17.50	1.476	-	-	0.01	0.765	1.129
	FR1 n2	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	376000	1880	1	15.81	17.50	1.476	-	-	0.09	0.631	0.931
	FR1 n2	20M	QPSK	100	0	DFT-15	Right Tilted	0mm	Ant 4	ECI 11	376000	1880	1	15.81	17.50	1.476	-	-	0.04	0.699	1.032
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	376000	1880	1	20.67	22.00	1.358	-	-	0.07	0.760	1.032
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI 11	376000	1880	1	20.67	22.00	1.358	-	-	0.08	0.280	0.380
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI 11	376000	1880	1	20.67	22.00	1.358	-	-	-0.1	0.301	0.409
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI 11	376000	1880	1	20.67	22.00	1.358	-	-	0.05	0.174	0.236
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	372000	1860	1	20.58	22.00	1.387	-	-	0.04	0.791	1.097
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	380000	1900	1	20.61	22.00	1.377	-	-	0.05	0.803	1.106
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	380000	1900	1	16.52	18.00	1.406	-	-	0.03	0.287	0.404
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 12	380000	1900	1	15.12	16.50	1.374	-	-	0.08	0.233	0.320
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI 12	376000	1880	1	15.20	16.50	1.349	-	-	-0.1	0.088	0.119
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	376000	1880	1	20.64	22.00	1.368	-	-	-0.14	0.730	0.998
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	ECI 11	376000	1880	1	20.64	22.00	1.368	-	-	0.03	0.269	0.368
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	ECI 11	376000	1880	1	20.64	22.00	1.368	-	-	-0.06	0.282	0.386
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	ECI 11	376000	1880	1	20.64	22.00	1.368	-	-	-0.04	0.172	0.235



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	372000	1860	1	20.53	22.00	1.403	-	-	0.09	0.771	1.082
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	380000	1900	1	20.59	22.00	1.384	-	-	-0.14	0.786	1.087
	FR1 n2	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	376000	1880	1	20.61	22.00	1.377	-	-	0.1	0.741	1.021
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	ECI 11	376000	1880	1	22.90	24.50	1.445	-	-	-0.09	0.163	0.236
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	ECI 11	376000	1880	1	22.90	24.50	1.445	-	-	0.09	0.155	0.224
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI 11	376000	1880	1	22.90	24.50	1.445	-	-	0.14	0.288	0.416
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	ECI 11	376000	1880	1	22.90	24.50	1.445	-	-	0.06	0.140	0.202
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI 12	376000	1880	1	20.95	22.50	1.429	-	-	0.07	0.189	0.270
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	ECI 11	376000	1880	1	22.62	24.50	1.542	-	-	0.07	0.154	0.237
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	ECI 11	376000	1880	1	22.62	24.50	1.542	-	-	-0.04	0.144	0.222
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	ECI 11	376000	1880	1	22.62	24.50	1.542	-	-	0.03	0.266	0.410
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	ECI 11	376000	1880	1	22.62	24.50	1.542	-	-	0.04	0.136	0.210
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	21100	2535	1	17.66	18.50	1.213	-	-	0.08	0.668	0.811
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	21100	2535	1	17.66	18.50	1.213	-	-	0.15	0.768	0.932
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 11	21100	2535	1	17.66	18.50	1.213	-	-	-0.12	0.252	0.306
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 11	21100	2535	1	17.66	18.50	1.213	-	-	0.04	0.304	0.369
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	20850	2510	1	17.57	18.50	1.239	-	-	0.06	0.633	0.784
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	21350	2560	1	17.50	18.50	1.259	-	-	0.01	0.684	0.861
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	20850	2510	1	17.57	18.50	1.239	-	-	-0.03	0.744	0.922
17	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	21350	2560	1	17.50	18.50	1.259	-	-	0.1	0.804	1.012
	LTE Band 7 NSA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 12	21350	2560	1	15.46	16.50	1.271	-	-	0.04	0.517	0.657
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	21100	2535	1	17.63	18.50	1.222	-	-	-0.07	0.650	0.794
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	21100	2535	1	17.63	18.50	1.222	-	-	-0.02	0.722	0.882
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 11	21100	2535	1	17.63	18.50	1.222	-	-	0.04	0.235	0.287
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 11	21100	2535	1	17.63	18.50	1.222	-	-	0.06	0.281	0.343
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	20850	2510	1	17.54	18.50	1.247	-	-	-0.14	0.729	0.909
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	21350	2560	1	17.48	18.50	1.265	-	-	0.12	0.763	0.965
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 11	21100	2535	1	17.60	18.50	1.230	-	-	0.01	0.637	0.784
	LTE Band 7	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 11	21100	2535	1	17.60	18.50	1.230	-	-	0.05	0.719	0.885
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	21100	2535	1	15.15	16.50	1.365	-	-	-0.08	0.719	0.981
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 11	21100	2535	1	15.15	16.50	1.365	-	-	0.06	0.267	0.364
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 11	21100	2535	1	15.15	16.50	1.365	-	-	0.01	0.299	0.408
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 11	21100	2535	1	15.15	16.50	1.365	-	-	0.11	0.115	0.157
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	20850	2510	1	15.12	16.50	1.374	-	-	0.03	0.734	1.009
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	21350	2560	1	15.10	16.50	1.380	-	-	0.02	0.696	0.961
	LTE Band 7 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	20850	2510	1	14.49	16.00	1.416	-	-	0.03	0.653	0.925
	LTE Band 7 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 12	20850	2510	1	12.90	14.50	1.445	-	-	-0.17	0.477	0.689
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	21100	2535	1	15.13	16.50	1.371	-	-	0.04	0.703	0.964
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 11	21100	2535	1	15.13	16.50	1.371	-	-	0.02	0.262	0.359
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 11	21100	2535	1	15.13	16.50	1.371	-	-	-0.13	0.282	0.387
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 11	21100	2535	1	15.13	16.50	1.371	-	-	-0.01	0.112	0.154
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	20850	2510	1	15.08	16.50	1.387	-	-	-0.11	0.712	0.987
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	21350	2560	1	15.09	16.50	1.384	-	-	0.12	0.663	0.917
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	ECI 11	21100	2535	1	15.10	16.50	1.380	-	-	-0.04	0.687	0.948
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI 11	21100	2535	1	23.86	24.50	1.159	-	-	0.11	0.361	0.418
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI 11	21100	2535	1	23.86	24.50	1.159	-	-	-0.12	0.169	0.196
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 11	21100	2535	1	23.86	24.50	1.159	-	-	-0.13	0.473	0.548
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI 11	21100	2535	1	23.86	24.50	1.159	-	-	-0.12	0.205	0.238
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI 11	21100	2535	1	22.79	23.50	1.178	-	-	-0.15	0.298	0.351
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI 11	21100	2535	1	22.79	23.50	1.178	-	-	-0.13	0.138	0.163
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI 11	21100	2535	1	22.79	23.50	1.178	-	-	-0.01	0.437	0.515
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI 11	21100	2535	1	22.79	23.50	1.178	-	-	-0.04	0.175	0.206
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	40620	2593	1	19.16	20.00	1.213	62.9	1.006	-0.09	0.655	0.800
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	40620	2593	1	19.16	20.00	1.213	62.9	1.006	-0.15	0.732	0.894



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 11	40620	2593	1	19.16	20.00	1.213	62.9	1.006	0.09	0.222	0.271
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 11	40620	2593	1	19.16	20.00	1.213	62.9	1.006	-0.01	0.272	0.332
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	39750	2506	1	19.07	20.00	1.239	62.9	1.006	0.1	0.517	0.644
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	40185	2549.5	1	18.95	20.00	1.274	62.9	1.006	-0.14	0.533	0.683
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	41055	2636.5	1	18.90	20.00	1.288	62.9	1.006	0.03	0.696	0.902
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	41490	2680	1	18.93	20.00	1.279	62.9	1.006	-0.12	0.671	0.864
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	39750	2506	1	19.07	20.00	1.239	62.9	1.006	-0.1	0.580	0.723
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	40185	2549.5	1	18.95	20.00	1.274	62.9	1.006	0.02	0.598	0.766
18	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	41055	2636.5	1	18.90	20.00	1.288	62.9	1.006	-0.04	0.781	1.012
	LTE Band 41C	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	41055+40857	2636.5+2616.7	1	18.78	20.00	1.324	62.9	1.006	0.03	0.686	0.914
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	41490	2680	1	18.93	20.00	1.279	62.9	1.006	-0.13	0.753	0.969
	LTE Band 41 NSA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 12	41055	2636.5	1	16.87	18.00	1.297	62.9	1.006	0.11	0.504	0.658
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	40620	2593	1	19.15	20.00	1.216	62.9	1.006	0.09	0.631	0.772
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	40620	2593	1	19.15	20.00	1.216	62.9	1.006	-0.14	0.725	0.887
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 11	40620	2593	1	19.15	20.00	1.216	62.9	1.006	-0.06	0.221	0.270
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 11	40620	2593	1	19.15	20.00	1.216	62.9	1.006	-0.13	0.268	0.328
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	39750	2506	1	19.05	20.00	1.245	62.9	1.006	-0.07	0.506	0.634
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	40185	2549.5	1	18.93	20.00	1.279	62.9	1.006	0.14	0.531	0.683
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	41055	2636.5	1	18.82	20.00	1.312	62.9	1.006	-0.02	0.687	0.907
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 11	41490	2680	1	18.88	20.00	1.294	62.9	1.006	-0.07	0.662	0.862
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	39750	2506	1	19.05	20.00	1.245	62.9	1.006	-0.07	0.573	0.717
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	40185	2549.5	1	18.93	20.00	1.279	62.9	1.006	-0.01	0.578	0.744
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	41055	2636.5	1	18.82	20.00	1.312	62.9	1.006	0.14	0.761	1.005
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 11	41490	2680	1	18.88	20.00	1.294	62.9	1.006	-0.02	0.733	0.954
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 11	40620	2593	1	19.07	20.00	1.239	62.9	1.006	0.14	0.606	0.755
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	ECI 11	40620	2593	1	19.07	20.00	1.239	62.9	1.006	-0.03	0.697	0.869
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	40620	2593	1	18.52	19.50	1.253	62.9	1.006	0.08	0.646	0.814
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 11	40620	2593	1	18.52	19.50	1.253	62.9	1.006	-0.1	0.266	0.335
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 11	40620	2593	1	18.52	19.50	1.253	62.9	1.006	-0.05	0.218	0.275
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 11	40620	2593	1	18.52	19.50	1.253	62.9	1.006	0.13	0.116	0.146
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	39750	2506	1	18.20	19.50	1.349	62.9	1.006	-0.06	0.728	0.988
	LTE Band 41C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	39750+39948	2506+2525.8	1	18.16	19.50	1.361	62.9	1.006	0.08	0.706	0.967
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	40185	2549.5	1	18.08	19.50	1.387	62.9	1.006	0.03	0.706	0.985
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	41055	2636.5	1	18.30	19.50	1.318	62.9	1.006	-0.11	0.561	0.744
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	41490	2680	1	18.45	19.50	1.274	62.9	1.006	-0.01	0.527	0.675
	LTE Band 41 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 12	39750	2506	1	15.95	17.50	1.429	62.9	1.006	0.01	0.470	0.676
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	40620	2593	1	18.49	19.50	1.262	62.9	1.006	0.1	0.626	0.795
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 11	40620	2593	1	18.49	19.50	1.262	62.9	1.006	-0.06	0.257	0.326
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 11	40620	2593	1	18.49	19.50	1.262	62.9	1.006	-0.03	0.211	0.268
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 11	40620	2593	1	18.49	19.50	1.262	62.9	1.006	-0.12	0.112	0.142
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	39750	2506	1	18.18	19.50	1.355	62.9	1.006	0.05	0.703	0.958
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	40185	2549.5	1	18.05	19.50	1.396	62.9	1.006	-0.06	0.689	0.968
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	41055	2636.5	1	18.28	19.50	1.324	62.9	1.006	-0.09	0.542	0.722
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	41490	2680	1	18.42	19.50	1.282	62.9	1.006	-0.04	0.511	0.659
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	ECI 11	40620	2593	1	18.42	19.50	1.282	62.9	1.006	0.05	0.589	0.760
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	ECI 11	40620	2593	1	23.81	24.50	1.172	62.9	1.006	-0.05	0.274	0.323
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	ECI 11	40620	2593	1	23.81	24.50	1.172	62.9	1.006	-0.05	0.159	0.187
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 11	40620	2593	1	23.81	24.50	1.172	62.9	1.006	0.12	0.437	0.515
	LTE Band 41C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	ECI 11	40620+40422	2593+2573.2	1	23.69	24.50	1.205	62.9	1.006	0.08	0.406	0.492
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	ECI 11	40620	2593	1	23.81	24.50	1.172	62.9	1.006	0.09	0.158	0.186
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	ECI 11	40620	2593	1	22.77	23.50	1.183	62.9	1.006	0.05	0.220	0.262
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	ECI 11	40620	2593	1	22.77	23.50	1.183	62.9	1.006	-0.14	0.125	0.149
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	ECI 11	40620	2593	1	22.77	23.50	1.183	62.9	1.006	-0.13	0.351	0.418
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	ECI 11	40620	2593	1	22.77	23.50	1.183	62.9	1.006	-0.15	0.127	0.151
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11	507000	2535	1	16.60	18.00	1.380	-	-	0.07	0.667	0.921



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11507000	2535	1	16.60	18.00	1.380	-	-	0.16	0.745	1.028
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	ECI 11507000	2535	1	16.60	18.00	1.380	-	-	-0.04	0.253	0.349
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	ECI 11507000	2535	1	16.60	18.00	1.380	-	-	0.09	0.302	0.417
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11502000	2510	1	16.49	18.00	1.416	-	-	0.01	0.648	0.917
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11512000	2560	1	16.54	18.00	1.400	-	-	0.08	0.697	0.976
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11502000	2510	1	16.49	18.00	1.416	-	-	0.06	0.727	1.029
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11512000	2560	1	16.54	18.00	1.400	-	-	0.02	0.782	1.094
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 11512000	2560	1	12.55	14.00	1.396	-	-	0.03	0.279	0.390
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 11512000	2560	1	12.55	14.00	1.396	-	-	0.07	0.316	0.441
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	ECI 12512000	2560	1	11.08	12.50	1.387	-	-	0.08	0.194	0.269
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	ECI 12512000	2560	1	11.08	12.50	1.387	-	-	0.02	0.228	0.316
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 4	ECI 11507000	2535	1	16.57	18.00	1.390	-	-	-0.11	0.629	0.874
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 4	ECI 11507000	2535	1	16.57	18.00	1.390	-	-	0.15	0.712	0.990
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 4	ECI 11507000	2535	1	16.57	18.00	1.390	-	-	-0.13	0.247	0.343
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 4	ECI 11507000	2535	1	16.57	18.00	1.390	-	-	0.03	0.298	0.414
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 4	ECI 11502000	2510	1	16.48	18.00	1.419	-	-	0.08	0.631	0.895
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 4	ECI 11512000	2560	1	16.49	18.00	1.416	-	-	0.12	0.667	0.944
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 4	ECI 11502000	2510	1	16.48	18.00	1.419	-	-	0.16	0.721	1.023
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 4	ECI 11512000	2560	1	16.49	18.00	1.416	-	-	-0.11	0.756	1.070
	FR1 n7	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 4	ECI 11507000	2535	1	16.55	18.00	1.396	-	-	0.05	0.626	0.874
	FR1 n7	20M	QPSK	100	0	DFT-15	Right Tilted	0mm	Ant 4	ECI 11507000	2535	1	16.55	18.00	1.396	-	-	0.05	0.688	0.961
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11507000	2535	1	16.15	17.50	1.365	-	-	-0.02	0.789	1.077
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	ECI 11507000	2535	1	16.15	17.50	1.365	-	-	0.12	0.293	0.400
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI 11507000	2535	1	16.15	17.50	1.365	-	-	-0.08	0.285	0.389
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	ECI 11507000	2535	1	16.15	17.50	1.365	-	-	-0.12	0.121	0.165
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11502000	2510	1	16.10	17.50	1.380	-	-	0.01	0.799	1.103
19	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11512000	2560	1	16.08	17.50	1.387	-	-	0.08	0.839	1.163
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11512000	2560	2	16.08	17.50	1.387	-	-	0.05	0.748	1.037
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11512000	2560	1	11.52	13.00	1.406	-	-	0.01	0.287	0.404
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 12512000	2560	1	10.12	11.50	1.374	-	-	0.06	0.222	0.305
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	ECI 12507000	2535	1	10.18	11.50	1.355	-	-	0.11	0.083	0.112
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	ECI 11507000	2535	1	16.12	17.50	1.374	-	-	-0.03	0.787	1.081
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	ECI 11507000	2535	1	16.12	17.50	1.374	-	-	-0.05	0.274	0.376
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	ECI 11507000	2535	1	16.12	17.50	1.374	-	-	0.13	0.277	0.381
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	ECI 11507000	2535	1	16.12	17.50	1.374	-	-	-0.07	0.114	0.157
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	ECI 11502000	2510	1	16.08	17.50	1.387	-	-	-0.07	0.777	1.078
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	ECI 11512000	2560	1	16.05	17.50	1.396	-	-	-0.06	0.809	1.130
	FR1 n7	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 1	ECI 11507000	2535	1	16.08	17.50	1.387	-	-	0.02	0.787	1.091
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	ECI 11507000	2535	1	23.20	24.50	1.349	-	-	-0.06	0.265	0.357
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	ECI 11507000	2535	1	23.20	24.50	1.349	-	-	0.08	0.130	0.175
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI 11507000	2535	1	23.20	24.50	1.349	-	-	-0.07	0.480	0.648
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	ECI 11507000	2535	1	23.20	24.50	1.349	-	-	-0.13	0.141	0.190
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI 11507000	2535	1	21.72	23.00	1.343	-	-	0.01	0.310	0.416
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	ECI 12507000	2535	1	20.25	21.50	1.334	-	-	-0.07	0.243	0.324
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	ECI 11507000	2535	1	23.05	24.50	1.396	-	-	-0.03	0.261	0.364
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	ECI 11507000	2535	1	23.05	24.50	1.396	-	-	-0.03	0.126	0.176
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	ECI 11507000	2535	1	23.05	24.50	1.396	-	-	0.05	0.451	0.630
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	ECI 11507000	2535	1	23.05	24.50	1.396	-	-	-0.16	0.132	0.184
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	ECI 11518598	2592.99	1	17.05	18.50	1.396	-	-	0.11	0.689	0.962
20	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	ECI 11518598	2592.99	1	17.05	18.50	1.396	-	-	-0.04	0.827	1.155
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	ECI 11518598	2592.99	1	17.05	18.50	1.396	-	-	-0.09	0.250	0.349
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	ECI 11518598	2592.99	1	17.05	18.50	1.396	-	-	-0.13	0.325	0.454
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	ECI 11518598	2592.99	1	12.38	14.00	1.452	-	-	0.15	0.238	0.346
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	ECI 11518598	2592.99	1	12.38	14.00	1.452	-	-	0.06	0.298	0.433
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	ECI 12518598	2592.99	1	10.85	12.50	1.462	-	-	0.05	0.179	0.262
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	ECI 12518598	2592.99	1	10.85	12.50	1.462	-	-	0.08	0.207	0.303



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	ECI 11	518598	2592.99	1	17.02	18.50	1.406	-	-	0.06	0.673	0.946
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	ECI 11	518598	2592.99	1	17.02	18.50	1.406	-	-	0.05	0.793	1.115
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	ECI 11	518598	2592.99	1	17.02	18.50	1.406	-	-	-0.08	0.234	0.329
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	ECI 11	518598	2592.99	1	17.02	18.50	1.406	-	-	0.13	0.313	0.440
	FR1 n41	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 4	ECI 11	518598	2592.99	1	17.01	18.50	1.409	-	-	0.01	0.663	0.934
	FR1 n41	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 4	ECI 11	518598	2592.99	1	17.01	18.50	1.409	-	-	0.05	0.780	1.099
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	518598	2592.99	1	15.48	17.00	1.419	-	-	-0.08	0.740	1.050
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	ECI 11	518598	2592.99	1	15.48	17.00	1.419	-	-	-0.05	0.285	0.404
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	ECI 11	518598	2592.99	1	15.48	17.00	1.419	-	-	0.05	0.280	0.397
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	ECI 11	518598	2592.99	1	15.48	17.00	1.419	-	-	0.08	0.128	0.182
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	518598	2592.99	1	11.30	13.00	1.479	-	-	-0.08	0.276	0.408
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	ECI 12	518598	2592.99	1	9.85	11.50	1.462	-	-	0.02	0.213	0.311
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	ECI 12	518598	2592.99	1	9.85	11.50	1.462	-	-	0.01	0.084	0.123
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	518598	2592.99	1	15.45	17.00	1.429	-	-	0.1	0.725	1.036
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	ECI 11	518598	2592.99	1	15.45	17.00	1.429	-	-	-0.02	0.270	0.386
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	ECI 11	518598	2592.99	1	15.45	17.00	1.429	-	-	-0.03	0.283	0.404
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	ECI 11	518598	2592.99	1	15.45	17.00	1.429	-	-	0.06	0.122	0.174
	FR1 n41	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	518598	2592.99	1	15.42	17.00	1.439	-	-	-0.13	0.721	1.037
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	ECI 11	518598	2592.99	1	24.72	26.00	1.343	-	-	0.14	0.393	0.528
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	ECI 11	518598	2592.99	1	24.72	26.00	1.343	-	-	0.13	0.176	0.236
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	ECI 11	518598	2592.99	1	24.72	26.00	1.343	-	-	0.11	0.705	0.947
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	ECI 11	518598	2592.99	1	24.72	26.00	1.343	-	-	0.13	0.188	0.252
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	ECI 11	518598	2592.99	1	21.27	22.50	1.327	-	-	0.06	0.172	0.228
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	ECI 11	518598	2592.99	1	21.27	22.50	1.327	-	-	0.01	0.307	0.408
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	ECI 12	518598	2592.99	1	19.76	21.00	1.330	-	-	-0.08	0.129	0.172
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	ECI 12	518598	2592.99	1	19.76	21.00	1.330	-	-	0.11	0.234	0.311
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	ECI 11	518598	2592.99	1	24.68	26.00	1.355	-	-	0.14	0.380	0.515
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	ECI 11	518598	2592.99	1	24.68	26.00	1.355	-	-	0.06	0.170	0.230
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	ECI 11	518598	2592.99	1	24.68	26.00	1.355	-	-	-0.14	0.675	0.915
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	ECI 11	518598	2592.99	1	24.68	26.00	1.355	-	-	0.11	0.180	0.244
	FR1 n41	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 2	ECI 11	518598	2592.99	1	23.53	25.00	1.403	-	-	0.05	0.653	0.916
3000MHz-4000MHz																					
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	ECI 11	55340	3560	1	17.82	18.50	1.169	62.9	1.006	0.14	0.281	0.331
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	ECI 11	55340	3560	1	17.82	18.50	1.169	62.9	1.006	0.13	0.227	0.267
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 11	55340	3560	1	17.82	18.50	1.169	62.9	1.006	0.13	0.740	0.871
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	ECI 11	55340	3560	1	17.82	18.50	1.169	62.9	1.006	-0.13	0.489	0.575
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 11	55830	3609	1	17.63	18.50	1.222	62.9	1.006	0.11	0.773	0.950
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 11	56150	3641	1	17.71	18.50	1.199	62.9	1.006	0.02	0.876	1.057
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 11	56640	3690	1	17.66	18.50	1.213	62.9	1.006	-0.13	0.911	1.112
	LTE Band 48 SA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 12	56640	3690	1	16.61	17.50	1.227	62.9	1.006	0.02	0.730	0.901
	LTE Band 48 NSA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	ECI 12	56640	3690	1	15.16	16.00	1.213	62.9	1.006	0.09	0.511	0.624
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	ECI 11	55340	3560	1	17.77	18.50	1.183	62.9	1.006	-0.15	0.254	0.302
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	ECI 11	55340	3560	1	17.77	18.50	1.183	62.9	1.006	-0.05	0.222	0.264
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI 11	55340	3560	1	17.77	18.50	1.183	62.9	1.006	-0.05	0.728	0.866
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	ECI 11	55340	3560	1	17.77	18.50	1.183	62.9	1.006	-0.15	0.481	0.572
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI 11	55830	3609	1	17.59	18.50	1.233	62.9	1.006	0.01	0.764	0.948
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI 11	56150	3641	1	17.69	18.50	1.205	62.9	1.006	0.13	0.851	1.032
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	ECI 11	56640	3690	1	17.65	18.50	1.216	62.9	1.006	-0.08	0.892	1.091
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 7	ECI 11	55340	3560	1	17.75	18.50	1.189	62.9	1.006	-0.15	0.709	0.848
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 11	55340	3560	1	21.50	22.00	1.122	62.9	1.006	-0.11	0.775	0.875
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 11	55340	3560	1	21.50	22.00	1.122	62.9	1.006	0.04	0.145	0.164
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 11	55340	3560	1	21.50	22.00	1.122	62.9	1.006	0.07	0.950	1.072
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 11	55340	3560	1	21.50	22.00	1.122	62.9	1.006	-0.06	0.294	0.332
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 11	55830	3609	1	21.45	22.00	1.135	62.9	1.006	-0.05	0.877	1.001
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 11	56150	3641	1	21.39	22.00	1.151	62.9	1.006	-0.02	0.751	0.869
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 11	56640	3690	1	21.46	22.00	1.132	62.9	1.006	0.09	0.805	0.917



FCC SAR Test Report

Report No. : FA4N1331

21	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 11	55830	3609	1	21.45	22.00	1.135	62.9	1.006	0.04	1.030	1.176
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 11	55830	3609	2	21.45	22.00	1.135	62.9	1.006	0.05	0.960	1.096
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 11	56150	3641	1	21.39	22.00	1.151	62.9	1.006	-0.09	0.838	0.970
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 11	56640	3690	1	21.46	22.00	1.132	62.9	1.006	0.06	0.933	1.063
	LTE Band 48 SA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 12	55830	3609	1	20.39	21.00	1.151	62.9	1.006	0.12	0.820	0.949
	LTE Band 48 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 12	55830	3609	1	18.66	19.50	1.213	62.9	1.006	0.01	0.502	0.613
	LTE Band 48 NSA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 12	55830	3609	1	18.66	19.50	1.213	62.9	1.006	0.06	0.522	0.637
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 11	55340	3560	1	21.47	22.00	1.130	62.9	1.006	-0.02	0.721	0.819
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI 11	55340	3560	1	21.47	22.00	1.130	62.9	1.006	-0.02	0.137	0.156
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 11	55340	3560	1	21.47	22.00	1.130	62.9	1.006	-0.15	0.868	0.987
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 11	55340	3560	1	21.47	22.00	1.130	62.9	1.006	-0.13	0.271	0.308
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 11	55830	3609	1	21.43	22.00	1.140	62.9	1.006	-0.14	0.812	0.931
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 11	56150	3641	1	21.36	22.00	1.159	62.9	1.006	-0.11	0.697	0.813
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 11	56640	3690	1	21.45	22.00	1.135	62.9	1.006	-0.05	0.741	0.846
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 11	55830	3609	1	21.43	22.00	1.140	62.9	1.006	-0.06	0.942	1.081
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 11	56150	3641	1	21.36	22.00	1.159	62.9	1.006	0.07	0.771	0.899
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 11	56640	3690	1	21.45	22.00	1.135	62.9	1.006	0.05	0.862	0.984
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	ECI 11	55340	3560	1	21.46	22.00	1.132	62.9	1.006	0.07	0.730	0.832
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 5	ECI 11	55340	3560	1	21.46	22.00	1.132	62.9	1.006	0.11	0.872	0.993
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	55340	3560	1	20.49	21.00	1.125	62.9	1.006	-0.03	0.787	0.890
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 11	55340	3560	1	20.49	21.00	1.125	62.9	1.006	-0.02	0.156	0.176
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 11	55340	3560	1	20.49	21.00	1.125	62.9	1.006	0.15	0.145	0.164
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 11	55340	3560	1	20.49	21.00	1.125	62.9	1.006	0.02	0.055	0.062
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	55830	3609	1	20.40	21.00	1.148	62.9	1.006	0.13	0.962	1.111
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	56150	3641	1	20.38	21.00	1.153	62.9	1.006	-0.13	1.010	1.172
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	56640	3690	1	20.42	21.00	1.143	62.9	1.006	-0.06	0.979	1.126
	LTE Band 48 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 11	56150	3641	1	19.30	20.00	1.175	62.9	1.006	0.02	0.815	0.963
	LTE Band 48 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 12	56150	3641	1	17.79	18.50	1.178	62.9	1.006	0.03	0.558	0.661
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	55340	3560	1	20.45	21.00	1.135	62.9	1.006	-0.14	0.770	0.879
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 11	55340	3560	1	20.45	21.00	1.135	62.9	1.006	0.03	0.149	0.170
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 11	55340	3560	1	20.45	21.00	1.135	62.9	1.006	0.06	0.140	0.160
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 11	55340	3560	1	20.45	21.00	1.135	62.9	1.006	0.07	0.054	0.062
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	55830	3609	1	20.35	21.00	1.161	62.9	1.006	-0.04	0.900	1.052
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	56150	3641	1	20.36	21.00	1.159	62.9	1.006	-0.1	0.943	1.099
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 11	56640	3690	1	20.41	21.00	1.146	62.9	1.006	-0.01	0.931	1.073
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	ECI 11	55340	3560	1	20.42	21.00	1.143	62.9	1.006	-0.11	0.755	0.868
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 11	55340	3560	1	17.48	18.00	1.127	62.9	1.006	-0.13	0.900	1.021
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI 11	55340	3560	1	17.48	18.00	1.127	62.9	1.006	-0.07	0.626	0.710
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	ECI 11	55340	3560	1	17.48	18.00	1.127	62.9	1.006	0.12	0.232	0.263
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	ECI 11	55340	3560	1	17.48	18.00	1.127	62.9	1.006	-0.03	0.188	0.213
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 11	55830	3609	1	17.35	18.00	1.161	62.9	1.006	0.08	0.741	0.866
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 11	56150	3641	1	17.44	18.00	1.138	62.9	1.006	0.06	0.833	0.953
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 11	56640	3690	1	17.32	18.00	1.169	62.9	1.006	0.01	0.939	1.105
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI 11	55830	3609	1	17.35	18.00	1.161	62.9	1.006	-0.13	0.525	0.613
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI 11	56150	3641	1	17.44	18.00	1.138	62.9	1.006	0.06	0.590	0.675
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	ECI 11	56640	3690	1	17.32	18.00	1.169	62.9	1.006	-0.15	0.665	0.782
	LTE Band 48 NSA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	ECI 12	56640	3690	1	14.85	15.50	1.161	62.9	1.006	0.06	0.539	0.630
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 11	55340	3560	1	17.42	18.00	1.143	62.9	1.006	-0.07	0.873	1.004
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI 11	55340	3560	1	17.42	18.00	1.143	62.9	1.006	-0.09	0.601	0.691
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	ECI 11	55340	3560	1	17.42	18.00	1.143	62.9	1.006	0.09	0.225	0.259
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	ECI 11	55340	3560	1	17.42	18.00	1.143	62.9	1.006	0.07	0.172	0.198
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 11	55830	3609	1	17.33	18.00	1.167	62.9	1.006	-0.04	0.735	0.863
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 11	56150	3641	1	17.40	18.00	1.148	62.9	1.006	0.07	0.812	0.938
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	ECI 11	56640	3690	1	17.30	18.00	1.175	62.9	1.006	0.01	0.926	1.094



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI 11	55830	3609	1	17.33	18.00	1.167	62.9	1.006	0.13	0.511	0.600
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI 11	56150	3641	1	17.40	18.00	1.148	62.9	1.006	0.04	0.587	0.678
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	ECI 11	56640	3690	1	17.30	18.00	1.175	62.9	1.006	0.14	0.668	0.790
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI 11	55340	3560	1	17.41	18.00	1.146	62.9	1.006	-0.15	0.856	0.986
	LTE Band 48	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 3	ECI 11	55340	3560	1	17.41	18.00	1.146	62.9	1.006	-0.01	0.600	0.691
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECI 11	633332	3499.98	1	15.88	16.50	1.153	-	-	0.02	0.194	0.224
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	ECI 11	633332	3499.98	1	15.88	16.50	1.153	-	-	-0.05	0.166	0.191
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECI 11	633332	3499.98	1	15.88	16.50	1.153	-	-	0.05	0.832	0.960
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECI 11	633332	3499.98	1	15.88	16.50	1.153	-	-	-0.13	0.584	0.674
	FR1 n77Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	ECI 11	633332	3499.98	1	15.81	16.50	1.172	-	-	-0.13	0.192	0.225
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	ECI 11	633332	3499.98	1	15.81	16.50	1.172	-	-	0.08	0.162	0.190
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECI 11	633332	3499.98	1	15.81	16.50	1.172	-	-	0.09	0.817	0.958
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	ECI 11	633332	3499.98	1	15.81	16.50	1.172	-	-	0.04	0.554	0.649
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 7	ECI 11	633332	3499.98	1	15.78	16.50	1.180	-	-	0.09	0.804	0.949
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	ECI 11	656000	3840	1	15.71	16.50	1.199	-	-	-0.09	0.237	0.284
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	ECI 11	656000	3840	1	15.71	16.50	1.199	-	-	-0.06	0.184	0.221
22	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECI 11	656000	3840	1	15.71	16.50	1.199	-	-	-0.15	0.964	1.156
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECI 11	656000	3840	1	15.71	16.50	1.199	-	-	0.15	0.674	0.808
	FR1 n77 Part27Q_SA	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECI 12	656000	3840	1	14.65	15.50	1.216	-	-	-0.09	0.760	0.924
	FR1 n77 Part27Q_NSA	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECI 11	656000	3840	1	11.17	12.00	1.211	-	-	0.12	0.342	0.414
	FR1 n77 Part27Q_NSA	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECI 11	656000	3840	1	11.17	12.00	1.211	-	-	0.05	0.230	0.278
	FR1 n77 Part27Q_NSA	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	ECI 12	656000	3840	1	9.66	10.50	1.213	-	-	0.02	0.257	0.312
	FR1 n77 Part27Q_NSA	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	ECI 12	656000	3840	1	9.66	10.50	1.213	-	-	0.05	0.175	0.212
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	ECI 11	656000	3840	1	15.66	16.50	1.213	-	-	0.07	0.235	0.285
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	ECI 11	656000	3840	1	15.66	16.50	1.213	-	-	0.05	0.183	0.222
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	ECI 11	656000	3840	1	15.66	16.50	1.213	-	-	0.02	0.922	1.119
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	ECI 11	656000	3840	1	15.66	16.50	1.213	-	-	-0.12	0.661	0.802
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 7	ECI 11	656000	3840	1	15.58	16.50	1.236	-	-	-0.1	0.910	1.125
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Left Tilted	0mm	Ant 7	ECI 11	656000	3840	1	15.58	16.50	1.236	-	-	0.06	0.638	0.789
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	ECI 11	633332	3499.98	1	19.62	20.00	1.091	-	-	-0.03	0.527	0.575
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	ECI 11	633332	3499.98	1	19.62	20.00	1.091	-	-	-0.1	0.108	0.118
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI 11	633332	3499.98	1	19.62	20.00	1.091	-	-	-0.15	0.986	1.076
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	ECI 11	633332	3499.98	1	19.62	20.00	1.091	-	-	0.07	0.231	0.252
	FR1 n77 Part27Q_SA	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI 12	633332	3499.98	1	18.57	19.00	1.104	-	-	0.02	0.780	0.861
	FR1 n77 Part27Q_NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	ECI 11	633332	3499.98	1	15.57	16.00	1.104	-	-	0.15	0.206	0.227
	FR1 n77 Part27Q_NSA	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI 11	633332	3499.98	1	15.57	16.00	1.104	-	-	0.06	0.398	0.439
	FR1 n77 Part27Q_NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	ECI 12	633332	3499.98	1	14.19	14.50	1.074	-	-	0.06	0.151	0.162
	FR1 n77 Part27Q_NSA	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI 12	633332	3499.98	1	14.19	14.50	1.074	-	-	0.05	0.274	0.294
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	ECI 11	633332	3499.98	1	19.58	20.00	1.102	-	-	-0.05	0.501	0.552
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	ECI 11	633332	3499.98	1	19.58	20.00	1.102	-	-	-0.06	0.104	0.115
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	ECI 11	633332	3499.98	1	19.58	20.00	1.102	-	-	0.15	0.941	1.037
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	ECI 11	633332	3499.98	1	19.58	20.00	1.102	-	-	-0.02	0.220	0.242
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 5	ECI 11	633332	3499.98	1	19.47	20.00	1.130	-	-	0.12	0.932	1.053
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	ECI 11	656000	3840	1	19.30	20.00	1.175	-	-	-0.09	0.487	0.572
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	ECI 11	656000	3840	1	19.30	20.00	1.175	-	-	0.06	0.154	0.181
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI 11	656000	3840	1	19.30	20.00	1.175	-	-	-0.02	0.815	0.958
	FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	ECI 11	656000	3840	1	19.30	20.00	1.175	-	-	-0.11	0.319	0.375
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	ECI 11	656000	3840	1	19.22	20.00	1.197	-	-	-0.15	0.473	0.566
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	ECI 11	656000	3840	1	19.22	20.00	1.197	-	-	-0.08	0.145	0.174
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	ECI 11	656000	3840	1	19.22	20.00	1.197	-	-	-0.15	0.783	0.937
	FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	ECI 11	656000	3840	1	19.22	20.00	1.197	-	-	0.06	0.304	0.364
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 5	ECI 11	656000	3840	1	19.24	20.00	1.191	-	-	0.05	0.462	0.550
	FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 5	ECI 11	656000	3840	1	19.24	20.00	1.191	-	-	0.02	0.791	0.942



FCC SAR Test Report

Report No. : FA4N1331

FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	633332	3499.98	1	17.45	18.00	1.135	-	-	0.02	0.912	1.035
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	ECI 11	633332	3499.98	1	17.45	18.00	1.135	-	-	-0.08	0.352	0.400
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	ECI 11	633332	3499.98	1	17.45	18.00	1.135	-	-	0.06	0.260	0.295
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	ECI 11	633332	3499.98	1	17.45	18.00	1.135	-	-	-0.07	0.136	0.154
FR1 n77 Part27Q NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	633332	3499.98	1	12.90	13.50	1.148	-	-	0.02	0.327	0.375
FR1 n77 Part27Q NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	ECI 12	633332	3499.98	1	11.44	12.00	1.138	-	-	0.02	0.255	0.290
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	633332	3499.98	1	17.37	18.00	1.156	-	-	0.14	0.875	1.012
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	ECI 11	633332	3499.98	1	17.37	18.00	1.156	-	-	-0.09	0.334	0.386
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	ECI 11	633332	3499.98	1	17.37	18.00	1.156	-	-	-0.08	0.248	0.287
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	ECI 11	633332	3499.98	1	17.37	18.00	1.156	-	-	0.06	0.126	0.146
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	633332	3499.98	1	17.35	18.00	1.161	-	-	-0.1	0.858	0.997
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	656000	3840	1	17.26	18.00	1.186	-	-	0.11	0.699	0.829
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	ECI 11	656000	3840	1	17.26	18.00	1.186	-	-	-0.09	0.173	0.205
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	ECI 11	656000	3840	1	17.26	18.00	1.186	-	-	-0.15	0.195	0.231
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	ECI 11	656000	3840	1	17.26	18.00	1.186	-	-	0.02	0.070	0.083
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	656000	3840	1	17.24	18.00	1.191	-	-	0.07	0.638	0.760
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	ECI 11	656000	3840	1	17.24	18.00	1.191	-	-	-0.14	0.151	0.180
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	ECI 11	656000	3840	1	17.24	18.00	1.191	-	-	0.11	0.174	0.207
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	ECI 11	656000	3840	1	17.24	18.00	1.191	-	-	0.14	0.062	0.074
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 1	ECI 11	656000	3840	1	17.13	18.00	1.222	-	-	-0.07	0.621	0.759
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	ECI 11	633332	3499.98	1	14.76	15.50	1.186	-	-	-0.02	0.743	0.881
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	ECI 11	633332	3499.98	1	14.76	15.50	1.186	-	-	0.08	0.457	0.542
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	ECI 11	633332	3499.98	1	14.76	15.50	1.186	-	-	-0.1	0.188	0.223
FR1 n77 Part27Q	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	ECI 11	633332	3499.98	1	14.76	15.50	1.186	-	-	-0.04	0.146	0.173
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	ECI 11	633332	3499.98	1	14.69	15.50	1.205	-	-	0.02	0.687	0.828
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	ECI 11	633332	3499.98	1	14.69	15.50	1.205	-	-	0.03	0.416	0.501
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	ECI 11	633332	3499.98	1	14.69	15.50	1.205	-	-	-0.13	0.169	0.204
FR1 n77 Part27Q	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	ECI 11	633332	3499.98	1	14.69	15.50	1.205	-	-	-0.15	0.140	0.169
FR1 n77 Part27Q	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 3	ECI 11	633332	3499.98	1	14.66	15.50	1.213	-	-	-0.1	0.691	0.838
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	ECI 11	656000	3840	1	14.83	15.50	1.167	-	-	-0.05	0.970	1.132
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	ECI 11	656000	3840	1	14.83	15.50	1.167	-	-	0.1	0.586	0.684
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	ECI 11	656000	3840	1	14.83	15.50	1.167	-	-	-0.11	0.280	0.327
FR1 n77 Part27O	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	ECI 11	656000	3840	1	14.83	15.50	1.167	-	-	-0.13	0.203	0.237
FR1 n77 Part27O NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	ECI 11	656000	3840	1	10.37	11.00	1.156	-	-	-0.05	0.332	0.384
FR1 n77 Part27O NSA	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	ECI 11	656000	3840	1	10.37	11.00	1.156	-	-	0.06	0.201	0.232
FR1 n77 Part27O NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	ECI 12	656000	3840	1	8.84	9.50	1.164	-	-	0.09	0.250	0.291
FR1 n77 Part27O NSA	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	ECI 12	656000	3840	1	8.84	9.50	1.164	-	-	0.07	0.154	0.179
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	ECI 11	656000	3840	1	14.73	15.50	1.194	-	-	-0.14	0.921	1.100
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	ECI 11	656000	3840	1	14.73	15.50	1.194	-	-	0.11	0.554	0.661
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	ECI 11	656000	3840	1	14.73	15.50	1.194	-	-	-0.12	0.264	0.315
FR1 n77 Part27O	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	ECI 11	656000	3840	1	14.73	15.50	1.194	-	-	0.05	0.197	0.235
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 3	ECI 11	656000	3840	1	14.70	15.50	1.202	-	-	-0.11	0.925	1.112
FR1 n77 Part27O	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 3	ECI 11	656000	3840	1	14.70	15.50	1.202	-	-	0.06	0.529	0.636

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WLAN2.4GHZ/BT																	
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 6	Full	39	2441	1	17.25	18.50	1.334	76.53	1.307	-0.07	0.092	0.160
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 6	Full	39	2441	1	17.25	18.50	1.334	76.53	1.307	0.06	0.072	0.125
23	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	Full	39	2441	1	17.25	18.50	1.334	76.53	1.307	0.12	0.386	0.673
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 6	Full	39	2441	1	17.25	18.50	1.334	76.53	1.307	0.12	0.122	0.213
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 6	WWAN+BT/5G+BT/WWAN+5G+BT	39	2441	1	12.95	14.50	1.429	76.53	1.307	0.03	0.043	0.080
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 6	WWAN+BT/5G+BT/WWAN+5G+BT	39	2441	1	12.95	14.50	1.429	76.53	1.307	0.01	0.034	0.063
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 6	WWAN+BT/5G+BT/WWAN+5G+BT	39	2441	1	12.95	14.50	1.429	76.53	1.307	0.03	0.129	0.241

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Page : 70 of 151

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FCC SAR Test Report

Report No. : FA4N1331

	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 6	WWAN+BT/5G+BT/WWAN+5G+BT	39	2441	1	12.95	14.50	1.429	76.53	1.307	0.08	0.058	0.108
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 6	Standalone	6	2437	1	18.27	20.00	1.489	99.53	1.005	-0.12	0.194	0.290
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 6	Standalone	6	2437	1	18.27	20.00	1.489	99.53	1.005	-0.12	0.173	0.259
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	6	2437	1	18.27	20.00	1.489	99.53	1.005	-0.07	0.615	0.921
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Standalone	6	2437	1	18.27	20.00	1.489	99.53	1.005	0.01	0.279	0.418
24	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	1	2412	1	18.13	20.00	1.538	99.53	1.005	-0.14	0.660	1.020
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	11	2462	1	18.19	20.00	1.517	99.53	1.005	0.16	0.587	0.895
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 6	WWAN+2.4G	6	2437	1	15.82	17.50	1.472	99.53	1.005	0.07	0.112	0.166
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 6	WWAN+2.4G	6	2437	1	15.82	17.50	1.472	99.53	1.005	0.12	0.104	0.154
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	WWAN+2.4G	6	2437	1	15.82	17.50	1.472	99.53	1.005	-0.1	0.362	0.536
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	WWAN+2.4G	6	2437	1	15.82	17.50	1.472	99.53	1.005	0.06	0.167	0.247
WLAN5GHz																	
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 6	Standalone	54	5270	1	15.83	17.00	1.309	93.1	1.074	0.11	0.167	0.235
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 6	Standalone	54	5270	1	15.83	17.00	1.309	93.1	1.074	0.09	0.123	0.173
25	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	54	5270	1	15.83	17.00	1.309	93.1	1.074	-0.02	0.742	1.043
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	Standalone	54	5270	1	15.83	17.00	1.309	93.1	1.074	0.12	0.363	0.510
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	62	5310	1	15.72	17.00	1.343	93.1	1.074	0.14	0.697	1.005
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	WWAN+5G/5G+BT	58	5290	1	12.78	14.00	1.324	87.88	1.138	-0.09	0.086	0.130
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	WWAN+5G/5G+BT	58	5290	1	12.78	14.00	1.324	87.88	1.138	0.05	0.069	0.104
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	WWAN+5G/5G+BT	58	5290	1	12.78	14.00	1.324	87.88	1.138	-0.15	0.370	0.558
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	WWAN+5G/5G+BT	58	5290	1	12.78	14.00	1.324	87.88	1.138	0.02	0.193	0.291
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	WWAN+5G+BT	58	5290	1	10.28	11.50	1.324	87.88	1.138	-0.05	0.051	0.077
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	WWAN+5G+BT	58	5290	1	10.28	11.50	1.324	87.88	1.138	0.07	0.042	0.063
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	WWAN+5G+BT	58	5290	1	10.28	11.50	1.324	87.88	1.138	0.08	0.213	0.321
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	WWAN+5G+BT	58	5290	1	10.28	11.50	1.324	87.88	1.138	0.15	0.112	0.169
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Standalone	106	5530	1	16.02	17.50	1.406	87.88	1.138	-0.15	0.161	0.258
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Standalone	106	5530	1	16.02	17.50	1.406	87.88	1.138	-0.06	0.111	0.178
26	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Standalone	106	5530	1	16.02	17.50	1.406	87.88	1.138	0.05	0.708	1.133
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Standalone	106	5530	2	16.02	17.50	1.406	87.88	1.138	0.05	0.658	1.053
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	106	5530	1	16.02	17.50	1.406	87.88	1.138	-0.14	0.274	0.438
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Standalone	122	5610	1	15.93	17.50	1.435	87.88	1.138	-0.15	0.662	1.081
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Standalone	138	5690	1	15.89	17.50	1.449	87.88	1.138	-0.01	0.618	1.019
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	WWAN+5G/5G+BT	106	5530	1	13.02	14.50	1.406	87.88	1.138	0.01	0.091	0.146
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	WWAN+5G/5G+BT	106	5530	1	13.02	14.50	1.406	87.88	1.138	0.15	0.059	0.094
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	WWAN+5G/5G+BT	106	5530	1	13.02	14.50	1.406	87.88	1.138	-0.09	0.362	0.579
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	WWAN+5G/5G+BT	106	5530	1	13.02	14.50	1.406	87.88	1.138	0.03	0.143	0.229
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	WWAN+5G+BT	106	5530	1	10.51	12.00	1.409	87.88	1.138	-0.14	0.049	0.079
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	WWAN+5G+BT	106	5530	1	10.51	12.00	1.409	87.88	1.138	-0.12	0.036	0.058
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	WWAN+5G+BT	106	5530	1	10.51	12.00	1.409	87.88	1.138	-0.05	0.209	0.335
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	WWAN+5G+BT	106	5530	1	10.51	12.00	1.409	87.88	1.138	0.01	0.082	0.132
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Standalone	155	5775	1	15.76	17.50	1.493	87.88	1.138	0.15	0.160	0.272
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Standalone	155	5775	1	15.76	17.50	1.493	87.88	1.138	0.07	0.102	0.173
27	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Standalone	155	5775	1	15.76	17.50	1.493	87.88	1.138	0.02	0.633	1.075
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	155	5775	1	15.76	17.50	1.493	87.88	1.138	-0.14	0.252	0.428
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	WWAN+5G/5G+BT	155	5775	1	12.87	14.50	1.455	87.88	1.138	0.14	0.086	0.142
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	WWAN+5G/5G+BT	155	5775	1	12.87	14.50	1.455	87.88	1.138	0.11	0.054	0.089
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	WWAN+5G/5G+BT	155	5775	1	12.87	14.50	1.455	87.88	1.138	0.1	0.322	0.533
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	WWAN+5G/5G+BT	155	5775	1	12.87	14.50	1.455	87.88	1.138	-0.06	0.129	0.214
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	WWAN+5G+BT	155	5775	1	10.38	12.00	1.452	87.88	1.138	0.09	0.052	0.086
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	WWAN+5G+BT	155	5775	1	10.38	12.00	1.452	87.88	1.138	0.05	0.033	0.055
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	WWAN+5G+BT	155	5775	1	10.38	12.00	1.452	87.88	1.138	0.03	0.192	0.317
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	WWAN+5G+BT	155	5775	1	10.38	12.00	1.452	87.88	1.138	-0.02	0.076	0.126



15.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
28	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 19133297		680.5	1	23.41	24.50	1.285	-	-	0.13	0.151	0.194
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 19133297		680.5	1	23.41	24.50	1.285	-	-	0.03	0.188	0.242
	LTE Band 71	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 19133297		680.5	1	23.41	24.50	1.285	-	-	-0.11	0.336	0.432
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 19133297		680.5	1	23.41	24.50	1.285	-	-	0.1	0.095	0.122
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 0	ECI 19133297		680.5	1	22.39	23.50	1.291	-	-	0.14	0.119	0.154
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 0	ECI 19133297		680.5	1	22.39	23.50	1.291	-	-	-0.12	0.142	0.183
	LTE Band 71	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	ECI 19133297		680.5	1	22.39	23.50	1.291	-	-	-0.15	0.265	0.342
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	ECI 19133297		680.5	1	22.39	23.50	1.291	-	-	0.07	0.079	0.102
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 19133297		680.5	1	23.69	24.50	1.205	-	-	-0.09	0.081	0.098
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19133297		680.5	1	23.69	24.50	1.205	-	-	-0.13	0.131	0.158
	LTE Band 71	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 19133297		680.5	1	23.69	24.50	1.205	-	-	-0.07	0.126	0.152
	LTE Band 71	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19133297		680.5	1	23.69	24.50	1.205	-	-	-0.02	0.089	0.107
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 19133297		680.5	1	22.71	23.50	1.199	-	-	-0.14	0.071	0.085
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19133297		680.5	1	22.71	23.50	1.199	-	-	0.01	0.100	0.120
	LTE Band 71	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 19133297		680.5	1	22.71	23.50	1.199	-	-	-0.02	0.095	0.114
	LTE Band 71	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 19133297		680.5	1	22.71	23.50	1.199	-	-	0.02	0.073	0.088
29	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 1923095		707.5	1	23.50	24.50	1.259	-	-	0.09	0.132	0.166
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 1923095		707.5	1	23.50	24.50	1.259	-	-	-0.07	0.177	0.223
	LTE Band 12	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 1923095		707.5	1	23.50	24.50	1.259	-	-	-0.08	0.298	0.375
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 1923095		707.5	1	23.50	24.50	1.259	-	-	0.15	0.104	0.131
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECI 1923095		707.5	1	22.30	23.50	1.318	-	-	0.06	0.105	0.138
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECI 1923095		707.5	1	22.30	23.50	1.318	-	-	0.13	0.144	0.190
	LTE Band 12	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	ECI 1923095		707.5	1	22.30	23.50	1.318	-	-	0.15	0.222	0.293
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECI 1923095		707.5	1	22.30	23.50	1.318	-	-	0.1	0.084	0.111
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 1923095		707.5	1	23.72	24.50	1.197	-	-	-0.15	0.061	0.073
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 1923095		707.5	1	23.72	24.50	1.197	-	-	0.11	0.097	0.116
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 1923095		707.5	1	23.72	24.50	1.197	-	-	0.09	0.080	0.096
	LTE Band 12	10M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 1923095		707.5	1	23.72	24.50	1.197	-	-	0.11	0.072	0.086
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 4	ECI 1923095		707.5	1	22.60	23.50	1.230	-	-	0.14	0.052	0.064
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 4	ECI 1923095		707.5	1	22.60	23.50	1.230	-	-	-0.15	0.081	0.100
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 4	ECI 1923095		707.5	1	22.60	23.50	1.230	-	-	0.09	0.062	0.076
	LTE Band 12	10M	QPSK	25	0	-	Top Side	10mm	Ant 4	ECI 1923095		707.5	1	22.60	23.50	1.230	-	-	0.08	0.060	0.074
30	FR1 n71	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	ECI 19136100		680.5	1	23.28	24.50	1.324	-	-	-0.04	0.148	0.196
	FR1 n71	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	ECI 19136100		680.5	1	23.28	24.50	1.324	-	-	-0.08	0.199	0.264
	FR1 n71	15M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 0	ECI 19136100		680.5	1	23.28	24.50	1.324	-	-	0.06	0.331	0.438
	FR1 n71	15M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	ECI 19136100		680.5	1	23.28	24.50	1.324	-	-	0.12	0.093	0.123
	FR1 n71_NSA	15M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 0	ECI 19136100		680.5	1	21.32	22.50	1.312	-	-	0.02	0.207	0.272
	FR1 n71	15M	QPSK	36	22	DFT-15	Front	10mm	Ant 0	ECI 19136100		680.5	1	23.25	24.50	1.334	-	-	0.1	0.147	0.196
	FR1 n71	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 0	ECI 19136100		680.5	1	23.25	24.50	1.334	-	-	-0.06	0.193	0.257
	FR1 n71	15M	QPSK	36	22	DFT-15	Right Side	10mm	Ant 0	ECI 19136100		680.5	1	23.25	24.50	1.334	-	-	0.09	0.273	0.364
	FR1 n71	15M	QPSK	36	22	DFT-15	Bottom Side	10mm	Ant 0	ECI 19136100		680.5	1	23.25	24.50	1.334	-	-	-0.13	0.098	0.131
	FR1 n71	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 4	ECI 19136100		680.5	1	23.35	24.50	1.303	-	-	-0.12	0.092	0.120
	FR1 n71	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19136100		680.5	1	23.35	24.50	1.303	-	-	0.15	0.148	0.193
	FR1 n71	15M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 4	ECI 19136100		680.5	1	23.35	24.50	1.303	-	-	0.13	0.128	0.167
	FR1 n71	15M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19136100		680.5	1	23.35	24.50	1.303	-	-	0.06	0.112	0.146
	FR1 n71	15M	QPSK	36	22	DFT-15	Front	10mm	Ant 4	ECI 19136100		680.5	1	23.28	24.50	1.324	-	-	0.07	0.088	0.117
	FR1 n71	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 4	ECI 19136100		680.5	1	23.28	24.50	1.324	-	-	0.03	0.130	0.172
	FR1 n71	15M	QPSK	36	22	DFT-15	Left Side	10mm	Ant 4	ECI 19136100		680.5	1	23.28	24.50	1.324	-	-	-0.11	0.118	0.156
	FR1 n71	15M	QPSK	36	22	DFT-15	Top Side	10mm	Ant 4	ECI 19136100		680.5	1	23.28	24.50	1.324	-	-	0.08	0.083	0.110
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	ECI 19141500		707.5	1	23.30	24.50	1.318	-	-	-0.02	0.139	0.183



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n12	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	ECI 19141500	707.5	1	23.30	24.50	1.318	-	-	-0.08	0.201	0.265
31	FR1 n12	15M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 0	ECI 19141500	707.5	1	23.30	24.50	1.318	-	-	-0.01	0.356	0.469
	FR1 n12	15M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	ECI 19141500	707.5	1	23.30	24.50	1.318	-	-	-0.12	0.112	0.148
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	10mm	Ant 0	ECI 19141500	707.5	1	23.29	24.50	1.321	-	-	-0.03	0.131	0.173
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 0	ECI 19141500	707.5	1	23.29	24.50	1.321	-	-	0.15	0.195	0.258
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Side	10mm	Ant 0	ECI 19141500	707.5	1	23.29	24.50	1.321	-	-	0.1	0.326	0.431
	FR1 n12	15M	QPSK	36	22	DFT-15	Bottom Side	10mm	Ant 0	ECI 19141500	707.5	1	23.29	24.50	1.321	-	-	-0.07	0.105	0.139
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	10mm	Ant 4	ECI 19141500	707.5	1	23.36	24.50	1.300	-	-	0.09	0.069	0.090
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19141500	707.5	1	23.36	24.50	1.300	-	-	-0.12	0.121	0.157
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 4	ECI 19141500	707.5	1	23.36	24.50	1.300	-	-	-0.03	0.090	0.117
	FR1 n12	15M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19141500	707.5	1	23.36	24.50	1.300	-	-	0.02	0.088	0.114
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	10mm	Ant 4	ECI 19141500	707.5	1	23.30	24.50	1.318	-	-	0.1	0.069	0.091
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 4	ECI 19141500	707.5	1	23.30	24.50	1.318	-	-	0.14	0.105	0.138
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	10mm	Ant 4	ECI 19141500	707.5	1	23.30	24.50	1.318	-	-	0.1	0.086	0.113
	FR1 n12	15M	QPSK	36	22	DFT-15	Top Side	10mm	Ant 4	ECI 19141500	707.5	1	23.30	24.50	1.318	-	-	-0.04	0.071	0.094
835MHz																				
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 0	ECI 19189	836.4	1	27.23	28.50	1.340	-	-	0.01	0.219	0.293
32	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 0	ECI 19189	836.4	1	27.23	28.50	1.340	-	-	-0.05	0.425	0.569
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	10mm	Ant 0	ECI 19189	836.4	1	27.23	28.50	1.340	-	-	-0.01	0.233	0.312
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 0	ECI 19189	836.4	1	27.23	28.50	1.340	-	-	-0.09	0.222	0.297
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 4	ECI 19189	836.4	1	26.87	28.00	1.297	-	-	0.12	0.210	0.272
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 4	ECI 19189	836.4	1	26.87	28.00	1.297	-	-	-0.13	0.297	0.385
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 4	ECI 19189	836.4	1	26.87	28.00	1.297	-	-	0.01	0.103	0.134
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 4	ECI 19189	836.4	1	26.87	28.00	1.297	-	-	0.14	0.283	0.367
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	ECI 194182	836.4	1	23.95	25.00	1.274	-	-	-0.04	0.278	0.354
33	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	ECI 194182	836.4	1	23.95	25.00	1.274	-	-	0.02	0.569	0.725
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	ECI 194182	836.4	2	23.95	25.00	1.274	-	-	0.05	0.541	0.689
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	ECI 194182	836.4	1	23.95	25.00	1.274	-	-	-0.15	0.302	0.385
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	ECI 194182	836.4	1	23.95	25.00	1.274	-	-	0.07	0.288	0.367
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 4	ECI 194182	836.4	1	24.00	24.50	1.122	-	-	0.07	0.172	0.193
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	ECI 194182	836.4	1	24.00	24.50	1.122	-	-	-0.06	0.273	0.306
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 4	ECI 194182	836.4	1	24.00	24.50	1.122	-	-	-0.07	0.096	0.108
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 4	ECI 194182	836.4	1	24.00	24.50	1.122	-	-	-0.04	0.248	0.278
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 1920525	836.5	1	23.87	25.00	1.297	-	-	0.1	0.256	0.332
34	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 1920525	836.5	1	23.87	25.00	1.297	-	-	-0.11	0.490	0.636
	LTE Band 5	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 1920525	836.5	1	23.87	25.00	1.297	-	-	-0.11	0.274	0.355
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 1920525	836.5	1	23.87	25.00	1.297	-	-	0.11	0.257	0.333
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 0	ECI 1920525	836.5	1	22.77	24.00	1.327	-	-	0.11	0.208	0.276
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 0	ECI 1920525	836.5	1	22.77	24.00	1.327	-	-	-0.01	0.391	0.519
	LTE Band 5	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	ECI 1920525	836.5	1	22.77	24.00	1.327	-	-	-0.12	0.231	0.307
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	ECI 1920525	836.5	1	22.77	24.00	1.327	-	-	0.01	0.214	0.284
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 1920525	836.5	1	23.66	25.00	1.361	-	-	0.02	0.160	0.218
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 1920525	836.5	1	23.66	25.00	1.361	-	-	-0.14	0.243	0.331
	LTE Band 5	10M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 1920525	836.5	1	23.66	25.00	1.361	-	-	-0.04	0.076	0.103
	LTE Band 5	10M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 1920525	836.5	1	23.66	25.00	1.361	-	-	0.15	0.210	0.286
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 4	ECI 1920525	836.5	1	22.63	24.00	1.371	-	-	-0.14	0.127	0.174
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 4	ECI 1920525	836.5	1	22.63	24.00	1.371	-	-	0.1	0.192	0.263
	LTE Band 5	10M	QPSK	25	0	-	Left Side	10mm	Ant 4	ECI 1920525	836.5	1	22.63	24.00	1.371	-	-	0.13	0.065	0.089
	LTE Band 5	10M	QPSK	25	0	-	Top Side	10mm	Ant 4	ECI 1920525	836.5	1	22.63	24.00	1.371	-	-	-0.05	0.171	0.234
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 0	ECI 1926865	831.5	1	23.92	24.50	1.143	-	-	0.15	0.224	0.256
35	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	ECI 1926865	831.5	1	23.92	24.50	1.143	-	-	0.05	0.382	0.437
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 0	ECI 1926865	831.5	1	23.92	24.50	1.143	-	-	0.01	0.245	0.280
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	ECI 1926865	831.5	1	23.92	24.50	1.143	-	-	-0.04	0.229	0.262
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 0	ECI 1926865	831.5	1	22.88	23.50	1.153	-	-	-0.05	0.187	0.216
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	ECI 1926865	831.5	1	22.88	23.50	1.153	-	-	0.02	0.332	0.383
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 0	ECI 1926865	831.5	1	22.88	23.50	1.153	-	-	-0.03	0.206	0.238



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 0	ECI 19	26865	831.5	1	22.88	23.50	1.153	-	-	-0.09	0.189	0.218
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 19	26865	831.5	1	23.75	24.50	1.189	-	-	-0.15	0.152	0.181
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	26865	831.5	1	23.75	24.50	1.189	-	-	-0.02	0.235	0.279
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 19	26865	831.5	1	23.75	24.50	1.189	-	-	0.02	0.070	0.083
	LTE Band 26	15M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19	26865	831.5	1	23.75	24.50	1.189	-	-	0.04	0.221	0.263
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 4	ECI 19	26865	831.5	1	22.66	23.50	1.213	-	-	0.04	0.125	0.152
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 4	ECI 19	26865	831.5	1	22.66	23.50	1.213	-	-	-0.01	0.187	0.227
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 4	ECI 19	26865	831.5	1	22.66	23.50	1.213	-	-	0.09	0.057	0.069
	LTE Band 26	15M	QPSK	36	0	-	Top Side	10mm	Ant 4	ECI 19	26865	831.5	1	22.66	23.50	1.213	-	-	0.03	0.175	0.212
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	ECI 19	167300	836.5	1	23.70	25.00	1.349	-	-	0.04	0.266	0.359
36	FR1 n5	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	ECI 19	167300	836.5	1	23.70	25.00	1.349	-	-	0.03	0.464	0.626
	FR1 n5	20M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 0	ECI 19	167300	836.5	1	23.70	25.00	1.349	-	-	0.06	0.296	0.399
	FR1 n5	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 0	ECI 19	167300	836.5	1	23.70	25.00	1.349	-	-	0.08	0.273	0.368
	FR1 n5_NSA	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 0	ECI 19	167300	836.5	1	20.24	21.50	1.337	-	-	0.04	0.219	0.293
	FR1 n5_NSA	20M	QPSK	1	1	DFT-15	Right Side	10mm	Ant 0	ECI 19	167300	836.5	1	20.24	21.50	1.337	-	-	-0.08	0.139	0.186
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 0	ECI 19	167300	836.5	1	23.62	25.00	1.374	-	-	-0.06	0.251	0.345
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 0	ECI 19	167300	836.5	1	23.62	25.00	1.374	-	-	0.09	0.450	0.618
	FR1 n5	20M	QPSK	50	28	DFT-15	Right Side	10mm	Ant 0	ECI 19	167300	836.5	1	23.62	25.00	1.374	-	-	-0.07	0.284	0.390
	FR1 n5	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 0	ECI 19	167300	836.5	1	23.62	25.00	1.374	-	-	0.12	0.258	0.355
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 4	ECI 19	167300	836.5	1	23.56	25.00	1.393	-	-	-0.1	0.171	0.238
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19	167300	836.5	1	23.56	25.00	1.393	-	-	-0.05	0.252	0.351
	FR1 n5	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 4	ECI 19	167300	836.5	1	23.56	25.00	1.393	-	-	0.03	0.084	0.117
	FR1 n5	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19	167300	836.5	1	23.56	25.00	1.393	-	-	-0.15	0.226	0.315
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 4	ECI 19	167300	836.5	1	23.52	25.00	1.406	-	-	-0.13	0.164	0.231
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 4	ECI 19	167300	836.5	1	23.52	25.00	1.406	-	-	0.11	0.244	0.343
	FR1 n5	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 4	ECI 19	167300	836.5	1	23.52	25.00	1.406	-	-	0.13	0.079	0.111
	FR1 n5	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 4	ECI 19	167300	836.5	1	23.52	25.00	1.406	-	-	0.04	0.221	0.311
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 4	ECI 19	1413	1732.6	1	21.37	22.50	1.297	-	-	0.01	0.398	0.516
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	ECI 19	1413	1732.6	1	21.37	22.50	1.297	-	-	0.01	0.670	0.869
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 4	ECI 19	1413	1732.6	1	21.37	22.50	1.297	-	-	0.14	0.132	0.171
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 4	ECI 19	1413	1732.6	1	21.37	22.50	1.297	-	-	-0.03	0.691	0.896
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	ECI 19	1312	1712.4	1	21.35	22.50	1.303	-	-	-0.04	0.707	0.921
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	ECI 19	1513	1752.6	1	21.30	22.50	1.318	-	-	-0.1	0.662	0.873
37	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 4	ECI 19	1312	1712.4	1	21.35	22.50	1.303	-	-	0.03	0.740	0.964
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 4	ECI 19	1513	1752.6	1	21.30	22.50	1.318	-	-	0.08	0.695	0.916
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	ECI 19	1413	1732.6	1	22.88	24.00	1.294	-	-	0.12	0.420	0.544
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	ECI 19	1413	1732.6	1	22.88	24.00	1.294	-	-	-0.04	0.727	0.941
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECI 19	1413	1732.6	1	22.88	24.00	1.294	-	-	0.08	0.689	0.892
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	ECI 19	1413	1732.6	1	22.88	24.00	1.294	-	-	-0.01	0.140	0.181
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	ECI 19	1312	1712.4	1	22.85	24.00	1.303	-	-	0.01	0.719	0.937
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	ECI 19	1513	1752.6	1	22.82	24.00	1.312	-	-	0.15	0.700	0.919
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECI 19	1312	1712.4	1	22.85	24.00	1.303	-	-	0.03	0.641	0.835
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECI 19	1513	1752.6	1	22.82	24.00	1.312	-	-	0.08	0.624	0.819
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 19	1413	1732.6	1	23.90	25.00	1.288	-	-	-0.1	0.406	0.523
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 19	1413	1732.6	1	23.90	25.00	1.288	-	-	0.13	0.645	0.831
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	ECI 19	1413	1732.6	1	23.90	25.00	1.288	-	-	0.04	0.385	0.496
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	ECI 19	1413	1732.6	1	23.90	25.00	1.288	-	-	-0.03	0.438	0.564
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 19	1312	1712.4	1	23.82	25.00	1.312	-	-	-0.03	0.653	0.857
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 19	1513	1752.6	1	23.88	25.00	1.294	-	-	0.03	0.670	0.867
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 19	132322	1745	1	20.82	22.00	1.312	-	-	0.05	0.336	0.441
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	132322	1745	1	20.82	22.00	1.312	-	-	0.08	0.659	0.865
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 19	132322	1745	1	20.82	22.00	1.312	-	-	-0.15	0.111	0.146
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19	132322	1745	1	20.82	22.00	1.312	-	-	-0.04	0.675	0.886
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	132072	1720	1	20.75	22.00	1.334	-	-	0.04	0.666	0.888
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	132572	1770	1	20.72	22.00	1.343	-	-	0.11	0.642	0.862



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19132072	1720	1	20.75	22.00	1.334	-	-	-0.02	0.677	0.903
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19132572	1770	1	20.72	22.00	1.343	-	-	0.1	0.662	0.889
	LTE Band 66_NSA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19132072	1720	1	19.40	20.50	1.288	-	-	0.04	0.471	0.607
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 19132322	1745	1	20.76	22.00	1.330	-	-	0.01	0.334	0.444
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19132322	1745	1	20.76	22.00	1.330	-	-	-0.05	0.648	0.862
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 19132322	1745	1	20.76	22.00	1.330	-	-	-0.06	0.107	0.142
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 19132322	1745	1	20.76	22.00	1.330	-	-	-0.1	0.661	0.879
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19132072	1720	1	20.73	22.00	1.340	-	-	0.08	0.650	0.871
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19132572	1770	1	20.70	22.00	1.349	-	-	0.12	0.641	0.865
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 19132072	1720	1	20.73	22.00	1.340	-	-	0.02	0.657	0.880
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 19132572	1770	1	20.70	22.00	1.349	-	-	-0.01	0.645	0.870
	LTE Band 66	20M	QPSK	100	0	-	Back	10mm	Ant 4	ECI 19132322	1745	1	20.72	22.00	1.343	-	-	0.14	0.642	0.862
	LTE Band 66	20M	QPSK	100	0	-	Top Side	10mm	Ant 4	ECI 19132322	1745	1	20.72	22.00	1.343	-	-	-0.07	0.661	0.888
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 19132322	1745	1	23.45	24.50	1.274	-	-	-0.13	0.349	0.444
38	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19132322	1745	1	23.45	24.50	1.274	-	-	-0.01	0.727	0.926
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 19132322	1745	1	23.45	24.50	1.274	-	-	-0.02	0.577	0.735
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	ECI 19132322	1745	1	23.45	24.50	1.274	-	-	0.15	0.122	0.155
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19132072	1720	1	23.40	24.50	1.288	-	-	-0.06	0.658	0.848
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19132572	1770	1	23.44	24.50	1.276	-	-	0.01	0.673	0.859
	LTE Band 66_NSA	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19132322	1745	1	21.98	23.00	1.265	-	-	0.03	0.530	0.670
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 1	ECI 19132322	1745	1	22.42	23.50	1.282	-	-	-0.08	0.276	0.354
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19132322	1745	1	22.42	23.50	1.282	-	-	0.13	0.569	0.730
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 19132322	1745	1	22.42	23.50	1.282	-	-	0.05	0.442	0.567
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	ECI 19132322	1745	1	22.42	23.50	1.282	-	-	0.13	0.084	0.108
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19132072	1720	1	22.36	23.50	1.300	-	-	-0.09	0.537	0.698
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19132572	1770	1	22.40	23.50	1.288	-	-	0.13	0.552	0.711
	LTE Band 66	20M	QPSK	100	0	-	Back	10mm	Ant 1	ECI 19132322	1745	1	22.40	23.50	1.288	-	-	0.15	0.566	0.729
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 19132322	1745	1	23.48	24.50	1.265	-	-	0.14	0.372	0.470
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19132322	1745	1	23.48	24.50	1.265	-	-	0.1	0.603	0.763
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19132322	1745	1	23.48	24.50	1.265	-	-	-0.07	0.345	0.436
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 19132322	1745	1	23.48	24.50	1.265	-	-	0.11	0.429	0.543
	LTE Band 66_NSA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19132322	1745	1	22.50	23.50	1.259	-	-	0.04	0.483	0.608
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 19132322	1745	1	22.46	23.50	1.271	-	-	0.06	0.295	0.375
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 19132322	1745	1	22.46	23.50	1.271	-	-	0.11	0.479	0.609
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 19132322	1745	1	22.46	23.50	1.271	-	-	-0.07	0.273	0.347
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 19132322	1745	1	22.46	23.50	1.271	-	-	0.03	0.343	0.436
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	10mm	Ant 4	ECI 19349000	1745	1	20.50	22.00	1.413	-	-	0.08	0.343	0.485
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19349000	1745	1	20.50	22.00	1.413	-	-	-0.11	0.658	0.929
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 4	ECI 19349000	1745	1	20.50	22.00	1.413	-	-	-0.1	0.108	0.153
	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19349000	1745	1	20.50	22.00	1.413	-	-	-0.08	0.668	0.944
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19349000	1745	1	15.50	17.00	1.413	-	-	0.05	0.209	0.295
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19349000	1745	1	15.50	17.00	1.413	-	-	0.09	0.216	0.305
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	10mm	Ant 4	ECI 19349000	1745	1	20.48	22.00	1.419	-	-	-0.11	0.325	0.461
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	10mm	Ant 4	ECI 19349000	1745	1	20.48	22.00	1.419	-	-	-0.02	0.626	0.888
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Side	10mm	Ant 4	ECI 19349000	1745	1	20.48	22.00	1.419	-	-	-0.02	0.106	0.150
	FR1 n66	30M	QPSK	80	40	DFT-15	Top Side	10mm	Ant 4	ECI 19349000	1745	1	20.48	22.00	1.419	-	-	-0.13	0.640	0.908
	FR1 n66	30M	QPSK	160	0	DFT-15	Back	10mm	Ant 4	ECI 19349000	1745	1	20.42	22.00	1.439	-	-	0.06	0.606	0.872
	FR1 n66	30M	QPSK	160	0	DFT-15	Top Side	10mm	Ant 4	ECI 19349000	1745	1	20.42	22.00	1.439	-	-	-0.04	0.631	0.908
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	ECI 19349000	1745	1	23.30	24.50	1.318	-	-	-0.12	0.395	0.521
39	FR1 n66	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 19349000	1745	1	23.30	24.50	1.318	-	-	-0.03	0.721	0.950
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 1	ECI 19349000	1745	1	23.30	24.50	1.318	-	-	0.05	0.671	0.885
	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 1	ECI 19349000	1745	1	23.30	24.50	1.318	-	-	-0.07	0.146	0.192
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 19349000	1745	1	17.88	19.00	1.294	-	-	0.01	0.211	0.273
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 1	ECI 19349000	1745	1	17.88	19.00	1.294	-	-	0.05	0.198	0.256
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	10mm	Ant 1	ECI 19349000	1745	1	23.23	24.50	1.340	-	-	-0.1	0.389	0.521



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n66	30M	QPSK	80	40	DFT-15	Back	10mm	Ant 1	ECI 19349000	1745	1	23.23	24.50	1.340	-	-	-0.01	0.709	0.950	
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Side	10mm	Ant 1	ECI 19349000	1745	1	23.23	24.50	1.340	-	-	0.13	0.637	0.853	
	FR1 n66	30M	QPSK	80	40	DFT-15	Top Side	10mm	Ant 1	ECI 19349000	1745	1	23.23	24.50	1.340	-	-	0.13	0.114	0.153	
	FR1 n66	30M	QPSK	160	0	DFT-15	Back	10mm	Ant 1	ECI 19349000	1745	1	22.20	23.50	1.349	-	-	0.11	0.636	0.858	
	FR1 n66	30M	QPSK	160	0	DFT-15	Left Side	10mm	Ant 1	ECI 19349000	1745	1	22.20	23.50	1.349	-	-	0.06	0.568	0.766	
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	10mm	Ant 2	ECI 19349000	1745	1	23.27	24.50	1.327	-	-	-0.13	0.389	0.516	
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	ECI 19349000	1745	1	23.27	24.50	1.327	-	-	0.09	0.547	0.726	
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 2	ECI 19349000	1745	1	23.27	24.50	1.327	-	-	0.04	0.329	0.437	
	FR1 n66	30M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	ECI 19349000	1745	1	23.27	24.50	1.327	-	-	0.15	0.430	0.571	
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	ECI 19349000	1745	1	19.30	20.50	1.318	-	-	0.14	0.223	0.294	
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	10mm	Ant 2	ECI 19349000	1745	1	23.21	24.50	1.346	-	-	-0.11	0.378	0.509	
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	10mm	Ant 2	ECI 19349000	1745	1	23.21	24.50	1.346	-	-	0.1	0.525	0.707	
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Side	10mm	Ant 2	ECI 19349000	1745	1	23.21	24.50	1.346	-	-	-0.09	0.317	0.427	
	FR1 n66	30M	QPSK	80	40	DFT-15	Bottom Side	10mm	Ant 2	ECI 19349000	1745	1	23.21	24.50	1.346	-	-	-0.09	0.429	0.577	
1900MHz																					
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 4	ECI 19	810	1909.8	1	22.08	23.50	1.387	-	-	-0.13	0.370	0.513
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 4	ECI 19	810	1909.8	1	22.08	23.50	1.387	-	-	0.12	0.697	0.967
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 4	ECI 19	810	1909.8	1	22.08	23.50	1.387	-	-	0.08	0.076	0.105
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 4	ECI 19	810	1909.8	1	22.08	23.50	1.387	-	-	-0.1	0.689	0.955
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 4	ECI 19	512	1850.2	1	21.96	23.50	1.426	-	-	-0.02	0.680	0.969
40	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 4	ECI 19	661	1880	1	22.07	23.50	1.390	-	-	0.06	0.704	0.979
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 4	ECI 19	661	1880	2	22.07	23.50	1.390	-	-	0.01	0.637	0.885
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 4	ECI 19	512	1850.2	1	21.96	23.50	1.426	-	-	0.09	0.651	0.928
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 4	ECI 19	661	1880	1	22.07	23.50	1.390	-	-	0.01	0.662	0.920
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 1	ECI 19	810	1909.8	1	25.32	26.50	1.312	-	-	0.13	0.245	0.321
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 1	ECI 19	810	1909.8	1	25.32	26.50	1.312	-	-	-0.04	0.569	0.747
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 1	ECI 19	810	1909.8	1	25.32	26.50	1.312	-	-	0.03	0.474	0.622
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 1	ECI 19	810	1909.8	1	25.32	26.50	1.312	-	-	0.06	0.084	0.110
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 2	ECI 19	810	1909.8	1	25.38	26.50	1.294	-	-	-0.12	0.245	0.317
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 2	ECI 19	810	1909.8	1	25.38	26.50	1.294	-	-	0.08	0.600	0.777
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 2	ECI 19	810	1909.8	1	25.38	26.50	1.294	-	-	0.11	0.260	0.336
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 2	ECI 19	810	1909.8	1	25.38	26.50	1.294	-	-	0.02	0.186	0.241
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 4	ECI 19	9400	1880	1	18.75	19.50	1.189	-	-	-0.1	0.303	0.360
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	ECI 19	9400	1880	1	18.75	19.50	1.189	-	-	-0.02	0.687	0.817
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 4	ECI 19	9400	1880	1	18.75	19.50	1.189	-	-	-0.04	0.058	0.069
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 4	ECI 19	9400	1880	1	18.75	19.50	1.189	-	-	0.04	0.642	0.763
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	ECI 19	9262	1852.4	1	18.65	19.50	1.216	-	-	-0.02	0.478	0.581
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	ECI 19	9538	1907.6	1	18.74	19.50	1.191	-	-	0.01	0.720	0.858
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	ECI 19	9400	1880	1	22.05	23.00	1.245	-	-	0.01	0.361	0.449
41	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	ECI 19	9400	1880	1	22.05	23.00	1.245	-	-	-0.11	0.772	0.961
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECI 19	9400	1880	1	22.05	23.00	1.245	-	-	0.08	0.673	0.838
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	ECI 19	9400	1880	1	22.05	23.00	1.245	-	-	0.13	0.121	0.151
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	ECI 19	9262	1852.4	1	21.99	23.00	1.262	-	-	0.08	0.726	0.916
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	ECI 19	9538	1907.6	1	22.01	23.00	1.256	-	-	0.1	0.707	0.888
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECI 19	9262	1852.4	1	21.99	23.00	1.262	-	-	0.03	0.647	0.816
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	ECI 19	9538	1907.6	1	22.01	23.00	1.256	-	-	0.01	0.630	0.791
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 19	9400	1880	1	23.08	24.00	1.236	-	-	0.1	0.423	0.523
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 19	9400	1880	1	23.08	24.00	1.236	-	-	-0.08	0.728	0.900
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	ECI 19	9400	1880	1	23.08	24.00	1.236	-	-	0.09	0.465	0.575
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	ECI 19	9400	1880	1	23.08	24.00	1.236	-	-	0.02	0.355	0.439
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 19	9262	1852.4	1	23.05	24.00	1.245	-	-	-0.02	0.766	0.953
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 19	9538	1907.6	1	23.02	24.00	1.253	-	-	-0.05	0.693	0.868
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 19	18900	1880	1	18.95	20.00	1.274	-	-	-0.06	0.311	0.396
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	18900	1880	1	18.95	20.00	1.274	-	-	-0.14	0.663	0.844
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 19	18900	1880	1	18.95	20.00	1.274	-	-	-0.08	0.065	0.083
	LTE Band 2	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19	18900	1880	1	18.95	20.00	1.274	-	-	0.15	0.611	0.778



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	18700	1860	1	18.88	20.00	1.294	-	-	-0.13	0.407	0.527
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	19100	1900	1	18.90	20.00	1.288	-	-	-0.07	0.715	0.921
	LTE Band 2 NSA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	19100	1900	1	17.47	18.50	1.268	-	-	0.02	0.509	0.645
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 19	18900	1880	1	18.90	20.00	1.288	-	-	-0.05	0.303	0.390
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19	18900	1880	1	18.90	20.00	1.288	-	-	0.12	0.658	0.848
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 19	18900	1880	1	18.90	20.00	1.288	-	-	0.11	0.064	0.082
	LTE Band 2	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 19	18900	1880	1	18.90	20.00	1.288	-	-	-0.11	0.597	0.769
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19	18700	1860	1	18.78	20.00	1.324	-	-	0.15	0.396	0.524
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19	19100	1900	1	18.79	20.00	1.321	-	-	-0.06	0.684	0.904
	LTE Band 2	20M	QPSK	100	0	-	Back	10mm	Ant 4	ECI 19	18900	1880	1	18.87	20.00	1.297	-	-	0.06	0.646	0.838
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 19	18900	1880	1	21.95	23.00	1.274	-	-	-0.1	0.340	0.433
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	18900	1880	1	21.95	23.00	1.274	-	-	0.11	0.728	0.927
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 19	18900	1880	1	21.95	23.00	1.274	-	-	-0.06	0.588	0.749
	LTE Band 2	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	ECI 19	18900	1880	1	21.95	23.00	1.274	-	-	-0.02	0.103	0.131
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	18700	1860	1	21.87	23.00	1.297	-	-	-0.11	0.680	0.882
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	19100	1900	1	21.90	23.00	1.288	-	-	0.02	0.732	0.943
	LTE Band 2 NSA	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	19100	1900	1	20.45	21.50	1.274	-	-	0.06	0.525	0.669
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 1	ECI 19	18900	1880	1	21.90	23.00	1.288	-	-	-0.09	0.336	0.433
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	18900	1880	1	21.90	23.00	1.288	-	-	-0.08	0.714	0.920
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 19	18900	1880	1	21.90	23.00	1.288	-	-	-0.14	0.558	0.719
	LTE Band 2	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	ECI 19	18900	1880	1	21.90	23.00	1.288	-	-	0.01	0.102	0.131
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	18700	1860	1	21.87	23.00	1.297	-	-	0.06	0.656	0.851
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	19100	1900	1	21.86	23.00	1.300	-	-	0.04	0.711	0.924
	LTE Band 2	20M	QPSK	100	0	-	Back	10mm	Ant 1	ECI 19	18900	1880	1	21.87	23.00	1.297	-	-	-0.1	0.689	0.894
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 19	18900	1880	1	23.55	24.50	1.245	-	-	0.11	0.381	0.474
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19	18900	1880	1	23.55	24.50	1.245	-	-	0.11	0.701	0.872
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19	18900	1880	1	23.55	24.50	1.245	-	-	-0.05	0.392	0.488
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 19	18900	1880	1	23.55	24.50	1.245	-	-	-0.07	0.360	0.448
42	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19	18700	1860	1	23.50	24.50	1.259	-	-	-0.1	0.760	0.957
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19	19100	1900	1	23.44	24.50	1.276	-	-	-0.09	0.645	0.823
	LTE Band 2 NSA	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19	18700	1860	1	22.02	23.00	1.253	-	-	0.06	0.545	0.683
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 19	18900	1880	1	22.45	23.50	1.274	-	-	0.1	0.302	0.385
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 19	18900	1880	1	22.45	23.50	1.274	-	-	0.05	0.562	0.716
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 19	18900	1880	1	22.45	23.50	1.274	-	-	0.13	0.321	0.409
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 19	18900	1880	1	22.45	23.50	1.274	-	-	-0.12	0.284	0.362
	LTE Band 2	20M	QPSK	100	0	-	Back	10mm	Ant 2	ECI 19	18900	1880	1	22.42	23.50	1.282	-	-	0.03	0.554	0.710
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 4	ECI 19	376000	1880	1	19.16	20.50	1.361	-	-	-0.05	0.277	0.377
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19	376000	1880	1	19.16	20.50	1.361	-	-	0.11	0.613	0.835
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 4	ECI 19	376000	1880	1	19.16	20.50	1.361	-	-	-0.11	0.062	0.084
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19	376000	1880	1	19.16	20.50	1.361	-	-	0.03	0.601	0.818
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19	372000	1860	1	19.13	20.50	1.371	-	-	0.14	0.446	0.611
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19	380000	1900	1	19.10	20.50	1.380	-	-	0.03	0.627	0.866
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19	372000	1860	1	19.13	20.50	1.371	-	-	-0.09	0.401	0.550
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19	380000	1900	1	19.10	20.50	1.380	-	-	0.12	0.583	0.805
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19	380000	1900	1	13.60	15.00	1.380	-	-	0.08	0.183	0.253
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19	376000	1880	1	13.69	15.00	1.352	-	-	0.1	0.165	0.223
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 4	ECI 19	376000	1880	1	19.12	20.50	1.374	-	-	-0.12	0.268	0.368
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 4	ECI 19	376000	1880	1	19.12	20.50	1.374	-	-	0.13	0.605	0.831
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 4	ECI 19	376000	1880	1	19.12	20.50	1.374	-	-	-0.04	0.057	0.078
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 4	ECI 19	376000	1880	1	19.12	20.50	1.374	-	-	0.01	0.590	0.811
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 4	ECI 19	372000	1860	1	19.11	20.50	1.377	-	-	-0.02	0.419	0.577
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 4	ECI 19	380000	1900	1	19.08	20.50	1.387	-	-	-0.02	0.612	0.849
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 4	ECI 19	372000	1860	1	19.11	20.50	1.377	-	-	0.02	0.397	0.547
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 4	ECI 19	380000	1900	1	19.08	20.50	1.387	-	-	-0.05	0.570	0.790
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	10mm	Ant 4	ECI 19	376000	1880	1	19.10	20.50	1.380	-	-	0.15	0.595	0.821



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n2	20M	QPSK	100	0	DFT-15	Top Side	10mm	Ant 4	ECI 19376000	1880	1	19.10	20.50	1.380	-	-	0.02	0.564	0.779
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	ECI 19376000	1880	1	21.68	23.00	1.355	-	-	0.1	0.311	0.421
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 19376000	1880	1	21.68	23.00	1.355	-	-	0.08	0.656	0.889
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 1	ECI 19376000	1880	1	21.68	23.00	1.355	-	-	0.12	0.548	0.743
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 1	ECI 19376000	1880	1	21.68	23.00	1.355	-	-	-0.15	0.112	0.152
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 19372000	1860	1	21.59	23.00	1.384	-	-	-0.03	0.606	0.838
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 19380000	1900	1	21.60	23.00	1.380	-	-	-0.09	0.659	0.910
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 19380000	1900	1	16.52	18.00	1.406	-	-	0.05	0.212	0.298
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 1	ECI 19376000	1880	1	16.61	18.00	1.377	-	-	0.12	0.175	0.241
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 1	ECI 19376000	1880	1	21.66	23.00	1.361	-	-	0.08	0.308	0.419
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 1	ECI 19376000	1880	1	21.66	23.00	1.361	-	-	0.05	0.650	0.885
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 1	ECI 19376000	1880	1	21.66	23.00	1.361	-	-	-0.03	0.542	0.738
	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 1	ECI 19376000	1880	1	21.66	23.00	1.361	-	-	0.13	0.111	0.151
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 1	ECI 19372000	1860	1	21.58	23.00	1.387	-	-	-0.03	0.598	0.829
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 1	ECI 19380000	1900	1	21.58	23.00	1.387	-	-	-0.14	0.651	0.903
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	10mm	Ant 1	ECI 19376000	1880	1	21.62	23.00	1.374	-	-	0.06	0.623	0.856
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 2	ECI 19376000	1880	1	22.33	24.00	1.469	-	-	-0.1	0.315	0.463
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	ECI 19376000	1880	1	22.33	24.00	1.469	-	-	-0.06	0.569	0.836
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 2	ECI 19376000	1880	1	22.33	24.00	1.469	-	-	-0.02	0.338	0.496
	FR1 n2	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	ECI 19376000	1880	1	22.33	24.00	1.469	-	-	0.04	0.281	0.413
43	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	ECI 19372000	1860	1	22.27	24.00	1.489	-	-	0.11	0.620	0.923
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	ECI 19380000	1900	1	22.25	24.00	1.496	-	-	-0.11	0.605	0.905
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	ECI 19372000	1860	1	17.40	19.00	1.445	-	-	0.05	0.204	0.295
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 2	ECI 19376000	1880	1	22.24	24.00	1.500	-	-	0.04	0.298	0.447
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 2	ECI 19376000	1880	1	22.24	24.00	1.500	-	-	0.07	0.551	0.826
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 2	ECI 19376000	1880	1	22.24	24.00	1.500	-	-	0.11	0.307	0.460
	FR1 n2	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 2	ECI 19376000	1880	1	22.24	24.00	1.500	-	-	0.14	0.266	0.399
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 2	ECI 19372000	1860	1	22.17	24.00	1.524	-	-	-0.08	0.587	0.895
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 2	ECI 19380000	1900	1	22.12	24.00	1.542	-	-	-0.08	0.576	0.888
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	10mm	Ant 2	ECI 19376000	1880	1	21.76	23.50	1.493	-	-	-0.04	0.531	0.793
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 1921100	2535	1	21.20	22.00	1.202	-	-	0.06	0.368	0.442
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 1921100	2535	1	21.20	22.00	1.202	-	-	-0.03	0.608	0.731
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 1921100	2535	1	21.20	22.00	1.202	-	-	-0.07	0.349	0.420
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 1921100	2535	1	21.20	22.00	1.202	-	-	0.15	0.725	0.872
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 1920850	2510	1	21.15	22.00	1.216	-	-	-0.05	0.736	0.895
44	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 1921350	2560	1	21.12	22.00	1.225	-	-	0.02	0.803	0.983
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 1921350	2560	2	21.12	22.00	1.225	-	-	0.09	0.789	0.966
	LTE Band 7 NSA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 1921100	2535	1	19.74	20.50	1.191	-	-	0.03	0.442	0.527
	LTE Band 7 NSA	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 1921350	2560	1	19.67	20.50	1.211	-	-	0.07	0.552	0.668
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 1921100	2535	1	21.18	22.00	1.208	-	-	-0.02	0.359	0.434
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 1921100	2535	1	21.18	22.00	1.208	-	-	0.03	0.581	0.702
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 1921100	2535	1	21.18	22.00	1.208	-	-	0.01	0.346	0.418
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 1921100	2535	1	21.18	22.00	1.208	-	-	0.13	0.712	0.860
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 1920850	2510	1	21.12	22.00	1.225	-	-	0.14	0.727	0.890
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 1921350	2560	1	21.10	22.00	1.230	-	-	0.04	0.784	0.965
	LTE Band 7	20M	QPSK	100	0	-	Top Side	10mm	Ant 4	ECI 1921100	2535	1	21.15	22.00	1.216	-	-	0.12	0.697	0.848
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 1921100	2535	1	19.15	20.50	1.365	-	-	-0.03	0.437	0.596
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 1921100	2535	1	19.15	20.50	1.365	-	-	-0.14	0.676	0.922
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 1921100	2535	1	19.15	20.50	1.365	-	-	0.05	0.342	0.467
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	ECI 1921100	2535	1	19.15	20.50	1.365	-	-	-0.11	0.140	0.191
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 1920850	2510	1	19.10	20.50	1.380	-	-	-0.14	0.606	0.837
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 1921350	2560	1	19.12	20.50	1.374	-	-	-0.02	0.648	0.890
	LTE Band 7 NSA	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 1921100	2535	1	17.59	19.00	1.384	-	-	0.05	0.473	0.654
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 1	ECI 1921100	2535	1	19.13	20.50	1.371	-	-	0.12	0.431	0.591



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	21100	2535	1	19.13	20.50	1.371	-	-	0.1	0.664	0.910
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 19	21100	2535	1	19.13	20.50	1.371	-	-	0.03	0.341	0.467
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	ECI 19	21100	2535	1	19.13	20.50	1.371	-	-	0.12	0.137	0.188
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	20850	2510	1	19.08	20.50	1.387	-	-	0.04	0.589	0.817
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	21350	2560	1	19.10	20.50	1.380	-	-	0.02	0.630	0.870
	LTE Band 7	20M	QPSK	100	0	-	Back	10mm	Ant 1	ECI 19	21100	2535	1	19.12	20.50	1.374	-	-	0.04	0.662	0.910
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 19	21100	2535	1	21.38	22.00	1.153	-	-	-0.1	0.300	0.346
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19	21100	2535	1	21.38	22.00	1.153	-	-	-0.1	0.537	0.619
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19	21100	2535	1	21.38	22.00	1.153	-	-	0.01	0.741	0.855
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 19	21100	2535	1	21.38	22.00	1.153	-	-	0.14	0.148	0.171
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19	20850	2510	1	21.27	22.00	1.183	-	-	-0.04	0.646	0.764
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19	21350	2560	1	21.30	22.00	1.175	-	-	-0.08	0.791	0.929
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 19	21100	2535	1	21.34	22.00	1.164	-	-	0.02	0.295	0.343
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 19	21100	2535	1	21.34	22.00	1.164	-	-	0.02	0.519	0.604
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 19	21100	2535	1	21.34	22.00	1.164	-	-	-0.01	0.737	0.858
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 19	21100	2535	1	21.34	22.00	1.164	-	-	-0.01	0.143	0.166
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 19	20850	2510	1	21.26	22.00	1.186	-	-	0.13	0.626	0.742
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 19	21350	2560	1	21.27	22.00	1.183	-	-	-0.14	0.770	0.911
	LTE Band 7	20M	QPSK	100	0	-	Left Side	10mm	Ant 2	ECI 19	21100	2535	1	21.30	22.00	1.175	-	-	-0.11	0.726	0.853
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 4	ECI 19	40620	2593	1	22.55	23.50	1.245	62.9	1.006	0.07	0.416	0.521
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	40620	2593	1	22.55	23.50	1.245	62.9	1.006	-0.01	0.666	0.834
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	ECI 19	40620	2593	1	22.55	23.50	1.245	62.9	1.006	-0.08	0.387	0.485
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19	40620	2593	1	22.55	23.50	1.245	62.9	1.006	-0.07	0.713	0.893
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	39750	2506	1	22.48	23.50	1.265	62.9	1.006	0.04	0.504	0.641
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	40185	2549.5	1	22.40	23.50	1.288	62.9	1.006	-0.04	0.445	0.577
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	41055	2636.5	1	22.39	23.50	1.291	62.9	1.006	0.1	0.675	0.877
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	41490	2680	1	22.42	23.50	1.282	62.9	1.006	-0.14	0.542	0.699
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19	39750	2506	1	22.48	23.50	1.265	62.9	1.006	0.02	0.561	0.714
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19	40185	2549.5	1	22.40	23.50	1.288	62.9	1.006	-0.08	0.518	0.671
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19	41055	2636.5	1	22.39	23.50	1.291	62.9	1.006	0.06	0.699	0.908
	LTE Band 41C	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19	41055+40857	2636.5+2616.7	1	22.21	23.50	1.346	62.9	1.006	-0.12	0.582	0.788
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	ECI 19	41490	2680	1	22.42	23.50	1.282	62.9	1.006	-0.02	0.622	0.802
	LTE Band 41 NSA	20M	QPSK	1	0	-	Back	10mm	Ant 4	ECI 19	41055	2636.5	1	20.88	22.00	1.294	62.9	1.006	0.17	0.487	0.634
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 4	ECI 19	40620	2593	1	22.49	23.50	1.262	62.9	1.006	-0.11	0.411	0.522
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19	40620	2593	1	22.49	23.50	1.262	62.9	1.006	0.02	0.659	0.837
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	ECI 19	40620	2593	1	22.49	23.50	1.262	62.9	1.006	-0.02	0.364	0.462
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 19	40620	2593	1	22.49	23.50	1.262	62.9	1.006	0.08	0.693	0.880
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19	39750	2506	1	22.46	23.50	1.271	62.9	1.006	-0.09	0.499	0.638
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19	40185	2549.5	1	22.37	23.50	1.297	62.9	1.006	0.05	0.419	0.547
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19	41055	2636.5	1	22.38	23.50	1.294	62.9	1.006	0	0.658	0.857
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 4	ECI 19	41490	2680	1	22.40	23.50	1.288	62.9	1.006	0.08	0.526	0.682
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 19	39750	2506	1	22.46	23.50	1.271	62.9	1.006	-0.09	0.552	0.706
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 19	40185	2549.5	1	22.37	23.50	1.297	62.9	1.006	-0.12	0.488	0.637
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 19	41055	2636.5	1	22.38	23.50	1.294	62.9	1.006	-0.14	0.690	0.898
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	ECI 19	41490	2680	1	22.40	23.50	1.288	62.9	1.006	0.09	0.616	0.798
	LTE Band 41	20M	QPSK	100	0	-	Back	10mm	Ant 4	ECI 19	40620	2593	1	22.47	23.50	1.268	62.9	1.006	0.14	0.635	0.810
	LTE Band 41	20M	QPSK	100	0	-	Top Side	10mm	Ant 4	ECI 19	40620	2593	1	22.47	23.50	1.268	62.9	1.006	0.09	0.681	0.868
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 19	40620	2593	1	21.40	22.50	1.288	62.9	1.006	-0.06	0.342	0.443
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	40620	2593	1	21.40	22.50	1.288	62.9	1.006	-0.01	0.642	0.832
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 19	40620	2593	1	21.40	22.50	1.288	62.9	1.006	-0.07	0.335	0.434
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	ECI 19	40620	2593	1	21.40	22.50	1.288	62.9	1.006	-0.04	0.126	0.163
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	39750	2506	1	21.08	22.50	1.387	62.9	1.006	0	0.526	0.734
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	40185	2549.5	1	21.04	22.50	1.400	62.9	1.006	-0.07	0.642	0.904
	LTE Band 41C	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	40185+39987	2549.5+2529.7	1	20.90	22.50	1.445	62.9	1.006	0.03	0.609	0.886
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	41055	2636.5	1	21.30	22.50	1.318	62.9	1.006	0.04	0.554	0.735



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	41490	2680	1	21.33	22.50	1.309	62.9	1.006	-0.11	0.506	0.666
	LTE Band 41_NSA	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 19	40185	2549.5	1	19.37	21.00	1.455	62.9	1.006	0.02	0.466	0.682
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 1	ECI 19	40620	2593	1	21.38	22.50	1.294	62.9	1.006	-0.1	0.340	0.443
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	40620	2593	1	21.38	22.50	1.294	62.9	1.006	0.13	0.612	0.797
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 19	40620	2593	1	21.38	22.50	1.294	62.9	1.006	0.03	0.330	0.430
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	ECI 19	40620	2593	1	21.38	22.50	1.294	62.9	1.006	0.06	0.117	0.152
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	39750	2506	1	21.05	22.50	1.396	62.9	1.006	0.02	0.510	0.716
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	40185	2549.5	1	20.96	22.50	1.426	62.9	1.006	0.05	0.606	0.869
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	41055	2636.5	1	21.28	22.50	1.324	62.9	1.006	0.08	0.529	0.705
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	41490	2680	1	21.30	22.50	1.318	62.9	1.006	-0.08	0.497	0.659
	LTE Band 41	20M	QPSK	100	0	-	Back	10mm	Ant 1	ECI 19	40620	2593	1	21.35	22.50	1.303	62.9	1.006	0.13	0.479	0.628
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 2	ECI 19	40620	2593	1	21.80	22.50	1.175	62.9	1.006	-0.02	0.339	0.401
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19	40620	2593	1	21.80	22.50	1.175	62.9	1.006	-0.05	0.570	0.674
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19	40620	2593	1	21.80	22.50	1.175	62.9	1.006	-0.05	0.763	0.902
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	ECI 19	40620	2593	1	21.80	22.50	1.175	62.9	1.006	-0.11	0.135	0.160
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19	39750	2506	1	21.69	22.50	1.205	62.9	1.006	0.15	0.328	0.398
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19	40185	2549.5	1	21.70	22.50	1.202	62.9	1.006	-0.12	0.423	0.512
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19	41055	2636.5	1	21.72	22.50	1.197	62.9	1.006	-0.13	0.553	0.666
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	ECI 19	41490	2680	1	21.75	22.50	1.189	62.9	1.006	0.12	0.505	0.604
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19	39750	2506	1	21.69	22.50	1.205	62.9	1.006	0.09	0.445	0.539
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19	40185	2549.5	1	21.70	22.50	1.202	62.9	1.006	-0.14	0.589	0.712
45	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19	41055	2636.5	1	21.72	22.50	1.197	62.9	1.006	-0.01	0.808	0.973
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19	41055+2636.5+40857 2616.7		1	21.50	22.50	1.259	62.9	1.006	0.08	0.729	0.923
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	ECI 19	41490	2680	1	21.75	22.50	1.189	62.9	1.006	-0.11	0.737	0.881
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 2	ECI 19	40620	2593	1	21.75	22.50	1.189	62.9	1.006	-0.14	0.327	0.391
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 19	40620	2593	1	21.75	22.50	1.189	62.9	1.006	0.1	0.557	0.666
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 19	40620	2593	1	21.75	22.50	1.189	62.9	1.006	0.02	0.743	0.888
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	ECI 19	40620	2593	1	21.75	22.50	1.189	62.9	1.006	0.07	0.132	0.158
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 19	39750	2506	1	21.68	22.50	1.208	62.9	1.006	0.01	0.326	0.396
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 19	40185	2549.5	1	21.68	22.50	1.208	62.9	1.006	-0.03	0.416	0.505
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 19	41055	2636.5	1	21.62	22.50	1.225	62.9	1.006	-0.12	0.548	0.675
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	ECI 19	41490	2680	1	21.72	22.50	1.197	62.9	1.006	0.05	0.501	0.603
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 19	39750	2506	1	21.68	22.50	1.208	62.9	1.006	0.08	0.436	0.530
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 19	40185	2549.5	1	21.68	22.50	1.208	62.9	1.006	-0.08	0.570	0.693
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 19	41055	2636.5	1	21.62	22.50	1.225	62.9	1.006	-0.01	0.782	0.963
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	ECI 19	41490	2680	1	21.72	22.50	1.197	62.9	1.006	-0.12	0.711	0.856
	LTE Band 41	20M	QPSK	100	0	-	Back	10mm	Ant 2	ECI 19	40620	2593	1	21.74	22.50	1.191	62.9	1.006	0.07	0.548	0.657
	LTE Band 41	20M	QPSK	100	0	-	Left Side	10mm	Ant 2	ECI 19	40620	2593	1	21.74	22.50	1.191	62.9	1.006	0.04	0.751	0.900
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 4	ECI 19	507000	2535	1	19.58	21.00	1.387	-	-	-0.09	0.342	0.474
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19	507000	2535	1	19.58	21.00	1.387	-	-	0.1	0.525	0.728
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 4	ECI 19	507000	2535	1	19.58	21.00	1.387	-	-	0.02	0.333	0.462
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19	507000	2535	1	19.58	21.00	1.387	-	-	-0.01	0.605	0.839
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19	502000	2510	1	19.53	21.00	1.403	-	-	-0.06	0.627	0.880
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19	512000	2560	1	19.49	21.00	1.416	-	-	-0.05	0.640	0.906
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 4	ECI 19	507000	2535	1	14.52	16.00	1.406	-	-	0.07	0.171	0.240
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 4	ECI 19	512000	2560	1	14.47	16.00	1.422	-	-	0.02	0.213	0.303
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 4	ECI 19	507000	2535	1	19.57	21.00	1.390	-	-	-0.04	0.307	0.427
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 4	ECI 19	507000	2535	1	19.57	21.00	1.390	-	-	-0.04	0.485	0.674
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 4	ECI 19	507000	2535	1	19.57	21.00	1.390	-	-	0.06	0.310	0.431
	FR1 n7	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 4	ECI 19	507000	2535	1	19.57	21.00	1.390	-	-	0.1	0.596	0.828
	FR1 n7	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 4	ECI 19	502000	2510	1	19.50	21.00	1.413	-	-	0.07	0.608	0.859
	FR1 n7	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 4	ECI 19	512000	2560	1	19.48	21.00	1.419	-	-	0.06	0.612	0.868
	FR1 n7	20M	QPSK	100	0	DFT-15	Top Side	10mm	Ant 4	ECI 19	512000	2560	1	19.55	21.00	1.396	-	-	-0.05	0.640	0.894
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 1	ECI 19	507000	2535	1	18.65	20.00	1.365	-	-	-0.04	0.385	0.525
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 19	507000	2535	1	18.65	20.00	1.365	-	-	-0.08	0.606	0.827



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 1	ECI 19507000	2535	1	18.65	20.00	1.365	-	-	0.03	0.285	0.389
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	10mm	Ant 1	ECI 19507000	2535	1	18.65	20.00	1.365	-	-	0	0.131	0.179
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 19502000	2510	1	18.58	20.00	1.387	-	-	0.14	0.651	0.903
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 19512000	2560	1	18.60	20.00	1.380	-	-	0.14	0.614	0.848
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	ECI 19502000	2510	1	13.60	15.00	1.380	-	-	0.06	0.213	0.294
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 1	ECI 19507000	2535	1	18.64	20.00	1.368	-	-	0.09	0.384	0.525
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 1	ECI 19507000	2535	1	18.64	20.00	1.368	-	-	0.14	0.594	0.812
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 1	ECI 19507000	2535	1	18.64	20.00	1.368	-	-	-0.01	0.263	0.360
	FR1 n7	20M	QPSK	50	28	DFT-15	Top Side	10mm	Ant 1	ECI 19507000	2535	1	18.64	20.00	1.368	-	-	-0.07	0.124	0.170
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 1	ECI 19502000	2510	1	18.55	20.00	1.396	-	-	0.06	0.629	0.878
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 1	ECI 19512000	2560	1	18.52	20.00	1.406	-	-	0.13	0.604	0.849
	FR1 n7	20M	QPSK	100	0	DFT-15	Back	10mm	Ant 1	ECI 19512000	2560	1	18.63	20.00	1.371	-	-	0.04	0.548	0.751
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	10mm	Ant 2	ECI 19507000	2535	1	21.22	22.50	1.343	-	-	-0.04	0.356	0.478
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	ECI 19507000	2535	1	21.22	22.50	1.343	-	-	-0.03	0.558	0.749
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 2	ECI 19507000	2535	1	21.22	22.50	1.343	-	-	0.14	0.694	0.932
	FR1 n7	20M	QPSK	1	1	DFT-15	Bottom Side	10mm	Ant 2	ECI 19507000	2535	1	21.22	22.50	1.343	-	-	0.08	0.149	0.200
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 2	ECI 19502000	2510	1	21.18	22.50	1.355	-	-	0.03	0.651	0.882
46	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 2	ECI 19512000	2560	1	21.15	22.50	1.365	-	-	-0.02	0.715	0.976
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Back	10mm	Ant 2	ECI 19507000	2535	1	15.77	17.00	1.327	-	-	-0.03	0.156	0.207
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Left Side	10mm	Ant 2	ECI 19512000	2560	1	15.73	17.00	1.340	-	-	0.07	0.212	0.284
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	10mm	Ant 2	ECI 19507000	2535	1	21.19	22.50	1.352	-	-	-0.14	0.328	0.443
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	10mm	Ant 2	ECI 19507000	2535	1	21.19	22.50	1.352	-	-	0.11	0.544	0.736
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 2	ECI 19507000	2535	1	21.19	22.50	1.352	-	-	-0.15	0.671	0.907
	FR1 n7	20M	QPSK	50	28	DFT-15	Bottom Side	10mm	Ant 2	ECI 19507000	2535	1	21.19	22.50	1.352	-	-	0.07	0.142	0.192
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 2	ECI 19502000	2510	1	21.09	22.50	1.384	-	-	0.1	0.626	0.866
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	10mm	Ant 2	ECI 19512000	2560	1	21.12	22.50	1.374	-	-	0.01	0.692	0.951
	FR1 n7	20M	QPSK	100	0	DFT-15	Left Side	10mm	Ant 2	ECI 19507000	2535	1	21.17	22.50	1.358	-	-	-0.12	0.662	0.899
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 4	ECI 19518598	2592.99	1	19.40	21.00	1.445	-	-	0.09	0.274	0.396
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	ECI 19518598	2592.99	1	19.40	21.00	1.445	-	-	0.05	0.493	0.713
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 4	ECI 19518598	2592.99	1	19.40	21.00	1.445	-	-	0.06	0.224	0.324
47	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 4	ECI 19518598	2592.99	1	19.40	21.00	1.445	-	-	-0.01	0.649	0.938
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 4	ECI 19518598	2592.99	1	14.40	16.00	1.445	-	-	0.05	0.158	0.228
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 4	ECI 19518598	2592.99	1	14.40	16.00	1.445	-	-	-0.01	0.210	0.304
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 4	ECI 19518598	2592.99	1	19.38	21.00	1.452	-	-	-0.08	0.265	0.385
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 4	ECI 19518598	2592.99	1	19.38	21.00	1.452	-	-	0.03	0.478	0.694
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 4	ECI 19518598	2592.99	1	19.38	21.00	1.452	-	-	0.08	0.217	0.315
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 4	ECI 19518598	2592.99	1	19.38	21.00	1.452	-	-	0.14	0.620	0.900
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 4	ECI 19518598	2592.99	1	19.35	21.00	1.462	-	-	0.06	0.472	0.690
	FR1 n41	100M	QPSK	270	0	DFT-30	Top Side	10mm	Ant 4	ECI 19518598	2592.99	1	19.35	21.00	1.462	-	-	-0.02	0.613	0.896
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 1	ECI 19518598	2592.99	1	18.55	20.00	1.396	-	-	-0.02	0.503	0.702
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 1	ECI 19518598	2592.99	1	18.55	20.00	1.396	-	-	-0.1	0.652	0.910
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 1	ECI 19518598	2592.99	1	18.55	20.00	1.396	-	-	0.11	0.335	0.468
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 1	ECI 19518598	2592.99	1	18.55	20.00	1.396	-	-	0.14	0.134	0.187
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 1	ECI 19518598	2592.99	1	13.30	15.00	1.479	-	-	-0.1	0.217	0.321
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 1	ECI 19518598	2592.99	1	18.53	20.00	1.403	-	-	0.15	0.471	0.661
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 1	ECI 19518598	2592.99	1	18.53	20.00	1.403	-	-	-0.09	0.645	0.905
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 1	ECI 19518598	2592.99	1	18.53	20.00	1.403	-	-	0.14	0.328	0.460
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 1	ECI 19518598	2592.99	1	18.53	20.00	1.403	-	-	-0.01	0.129	0.181
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	10mm	Ant 1	ECI 19518598	2592.99	1	18.46	20.00	1.426	-	-	0.05	0.458	0.653
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 1	ECI 19518598	2592.99	1	18.46	20.00	1.426	-	-	0.02	0.628	0.895
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 2	ECI 19518598	2592.99	1	20.33	21.50	1.309	-	-	-0.07	0.317	0.415
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 2	ECI 19518598	2592.99	1	20.33	21.50	1.309	-	-	-0.12	0.564	0.738
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 2	ECI 19518598	2592.99	1	20.33	21.50	1.309	-	-	0.08	0.714	0.935
	FR1 n41	100M	QPSK	1	1	DFT-30	Bottom Side	10mm	Ant 2	ECI 19518598	2592.99	1	20.33	21.50	1.309	-	-	-0.11	0.132	0.173
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 2	ECI 19518598	2592.99	1	14.67	16.00	1.358	-	-	0.07	0.160	0.217
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 2	ECI 19518598	2592.99	1	14.67	16.00	1.358	-	-	0.08	0.203	0.276



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n41	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 2	ECI 19518598	2592.99	1	20.30	21.50	1.318	-	-	0.04	0.311	0.410
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 2	ECI 19518598	2592.99	1	20.30	21.50	1.318	-	-	0.09	0.539	0.711
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 2	ECI 19518598	2592.99	1	20.30	21.50	1.318	-	-	0.15	0.672	0.886
	FR1 n41	100M	QPSK	135	69	DFT-30	Bottom Side	10mm	Ant 2	ECI 19518598	2592.99	1	20.30	21.50	1.318	-	-	-0.06	0.123	0.162
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 2	ECI 19518598	2592.99	1	20.28	21.50	1.324	-	-	0.09	0.526	0.697
	FR1 n41	100M	QPSK	270	0	DFT-30	Left Side	10mm	Ant 2	ECI 19518598	2592.99	1	20.28	21.50	1.324	-	-	-0.04	0.653	0.865
3000MHz-4000MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 7	ECI 1955340	3560	1	20.34	21.00	1.164	62.9	1.006	0.05	0.319	0.374
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECI 1955340	3560	1	20.34	21.00	1.164	62.9	1.006	-0.15	0.627	0.734
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 7	ECI 1955340	3560	1	20.34	21.00	1.164	62.9	1.006	-0.15	0.360	0.422
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 7	ECI 1955340	3560	1	20.34	21.00	1.164	62.9	1.006	-0.14	0.301	0.353
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECI 1955830	3609	1	20.18	21.00	1.208	62.9	1.006	0.07	0.607	0.738
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECI 1956150	3641	1	20.23	21.00	1.194	62.9	1.006	-0.04	0.698	0.838
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECI 1956640	3690	1	20.21	21.00	1.199	62.9	1.006	0.09	0.772	0.932
	LTE Band 48 NSA	20M	QPSK	1	0	-	Back	10mm	Ant 7	ECI 1956640	3690	1	18.80	19.50	1.175	62.9	1.006	0.01	0.528	0.624
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 7	ECI 1955340	3560	1	20.33	21.00	1.167	62.9	1.006	0.14	0.299	0.351
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 7	ECI 1955340	3560	1	20.33	21.00	1.167	62.9	1.006	0.12	0.607	0.713
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 7	ECI 1955340	3560	1	20.33	21.00	1.167	62.9	1.006	-0.15	0.353	0.414
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 7	ECI 1955340	3560	1	20.33	21.00	1.167	62.9	1.006	0.08	0.280	0.329
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 7	ECI 1955830	3609	1	20.16	21.00	1.213	62.9	1.006	0.05	0.560	0.684
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 7	ECI 1956150	3641	1	20.20	21.00	1.202	62.9	1.006	0.11	0.662	0.801
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 7	ECI 1956640	3690	1	20.19	21.00	1.205	62.9	1.006	-0.05	0.741	0.898
	LTE Band 48	20M	QPSK	100	0	-	Back	10mm	Ant 7	ECI 1955340	3560	1	20.31	21.00	1.172	62.9	1.006	0.03	0.612	0.722
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 5	ECI 1955340	3560	1	20.43	21.00	1.140	62.9	1.006	0.1	0.278	0.319
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 1955340	3560	1	20.43	21.00	1.140	62.9	1.006	-0.14	0.654	0.750
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 1955340	3560	1	20.43	21.00	1.140	62.9	1.006	0.12	0.783	0.898
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	ECI 1955340	3560	1	20.43	21.00	1.140	62.9	1.006	0.02	0.076	0.087
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 1955830	3609	1	20.35	21.00	1.161	62.9	1.006	0.01	0.558	0.652
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 1956150	3641	1	20.40	21.00	1.148	62.9	1.006	0.05	0.481	0.556
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 1956640	3690	1	20.41	21.00	1.146	62.9	1.006	0.08	0.671	0.773
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 1955830	3609	1	20.35	21.00	1.161	62.9	1.006	-0.04	0.703	0.821
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 1956150	3641	1	20.40	21.00	1.148	62.9	1.006	0.07	0.606	0.700
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 1956640	3690	1	20.41	21.00	1.146	62.9	1.006	-0.08	0.822	0.947
	LTE Band 48 NSA	20M	QPSK	1	0	-	Back	10mm	Ant 5	ECI 1956640	3690	1	18.92	19.50	1.143	62.9	1.006	0.11	0.439	0.505
	LTE Band 48 NSA	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	ECI 1956640	3690	1	18.92	19.50	1.143	62.9	1.006	0.05	0.545	0.627
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 5	ECI 1955340	3560	1	20.38	21.00	1.153	62.9	1.006	0.12	0.305	0.354
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 1955340	3560	1	20.38	21.00	1.153	62.9	1.006	-0.15	0.635	0.737
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 1955340	3560	1	20.38	21.00	1.153	62.9	1.006	-0.11	0.806	0.935
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	ECI 1955340	3560	1	20.38	21.00	1.153	62.9	1.006	-0.11	0.076	0.088
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 1955830	3609	1	20.33	21.00	1.167	62.9	1.006	0.07	0.536	0.629
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 1956150	3641	1	20.36	21.00	1.159	62.9	1.006	-0.06	0.480	0.560
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 5	ECI 1956640	3690	1	20.22	21.00	1.197	62.9	1.006	0.01	0.640	0.771
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 1955830	3609	1	20.33	21.00	1.167	62.9	1.006	0.07	0.690	0.810
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 1956150	3641	1	20.36	21.00	1.159	62.9	1.006	-0.03	0.584	0.681
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	ECI 1956640	3690	1	20.22	21.00	1.197	62.9	1.006	-0.06	0.786	0.946
	LTE Band 48	20M	QPSK	100	0	-	Back	10mm	Ant 5	ECI 1955340	3560	1	20.38	21.00	1.153	62.9	1.006	0.06	0.633	0.735
	LTE Band 48	20M	QPSK	100	0	-	Right Side	10mm	Ant 5	ECI 1955340	3560	1	20.38	21.00	1.153	62.9	1.006	-0.03	0.793	0.920
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 1	ECI 1955340	3560	1	21.60	22.00	1.096	62.9	1.006	0.05	0.236	0.260
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 1	ECI 1955340	3560	1	21.60	22.00	1.096	62.9	1.006	0.01	0.599	0.661
48	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 1955340	3560	1	21.60	22.00	1.096	62.9	1.006	0.14	0.866	0.955
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	ECI 1955340	3560	1	21.60	22.00	1.096	62.9	1.006	-0.09	0.074	0.082
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 1955830	3609	1	21.56	22.00	1.107	62.9	1.006	-0.12	0.830	0.924
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 1956150	3641	1	21.53	22.00	1.114	62.9	1.006	-0.03	0.827	0.927
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	ECI 1956640	3690	1	21.52	22.00	1.117	62.9	1.006	-0.06	0.838	0.942
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 1	ECI 1955340	3560	1	21.56	22.00	1.107	62.9	1.006	-0.06	0.216	0.240



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 1	ECI 19	55340	3560	1	21.56	22.00	1.107	62.9	1.006	0.1	0.585	0.651
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 19	55340	3560	1	21.56	22.00	1.107	62.9	1.006	0.04	0.794	0.884
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	ECI 19	55340	3560	1	21.56	22.00	1.107	62.9	1.006	-0.13	0.070	0.078
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 19	55830	3609	1	21.55	22.00	1.109	62.9	1.006	0.03	0.806	0.899
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 19	56150	3641	1	21.52	22.00	1.117	62.9	1.006	-0.08	0.779	0.875
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	ECI 19	56640	3690	1	21.49	22.00	1.125	62.9	1.006	-0.1	0.813	0.920
	LTE Band 48	20M	QPSK	100	0	-	Back	10mm	Ant 1	ECI 19	55340	3560	1	21.52	22.00	1.117	62.9	1.006	0.03	0.576	0.647
	LTE Band 48	20M	QPSK	100	0	-	Left Side	10mm	Ant 1	ECI 19	55340	3560	1	21.52	22.00	1.117	62.9	1.006	-0.09	0.815	0.916
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 3	ECI 19	55340	3560	1	22.58	23.00	1.102	62.9	1.006	-0.05	0.488	0.541
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 19	55340	3560	1	22.58	23.00	1.102	62.9	1.006	0.08	0.552	0.612
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	ECI 19	55340	3560	1	22.58	23.00	1.102	62.9	1.006	-0.01	0.396	0.439
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	ECI 19	55340	3560	1	22.58	23.00	1.102	62.9	1.006	0.12	0.285	0.316
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 19	55830	3609	1	22.40	23.00	1.148	62.9	1.006	0.1	0.567	0.655
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 19	56150	3641	1	22.52	23.00	1.117	62.9	1.006	-0.03	0.525	0.590
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 3	ECI 19	56640	3690	1	22.45	23.00	1.135	62.9	1.006	0.01	0.495	0.565
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 3	ECI 19	55340	3560	1	21.57	22.00	1.104	62.9	1.006	0.05	0.397	0.441
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 3	ECI 19	55340	3560	1	21.57	22.00	1.104	62.9	1.006	0.09	0.426	0.473
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	ECI 19	55340	3560	1	21.57	22.00	1.104	62.9	1.006	-0.01	0.322	0.358
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	ECI 19	55340	3560	1	21.57	22.00	1.104	62.9	1.006	0.09	0.239	0.265
	LTE Band 48	20M	QPSK	100	0	-	Back	10mm	Ant 3	ECI 19	55340	3560	1	21.55	22.00	1.109	62.9	1.006	-0.07	0.406	0.453
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 7	ECI 19	633332	3499.98	1	17.92	18.50	1.143	-	-	0.11	0.261	0.298
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	ECI 19	633332	3499.98	1	17.92	18.50	1.143	-	-	0.11	0.626	0.715
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 7	ECI 19	633332	3499.98	1	17.92	18.50	1.143	-	-	0.13	0.324	0.370
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 7	ECI 19	633332	3499.98	1	17.92	18.50	1.143	-	-	-0.07	0.266	0.304
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 7	ECI 19	633332	3499.98	1	17.83	18.50	1.167	-	-	-0.01	0.227	0.265
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 7	ECI 19	633332	3499.98	1	17.83	18.50	1.167	-	-	-0.06	0.594	0.693
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 7	ECI 19	633332	3499.98	1	17.83	18.50	1.167	-	-	0.06	0.304	0.355
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 7	ECI 19	633332	3499.98	1	17.83	18.50	1.167	-	-	-0.06	0.247	0.288
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 7	ECI 19	656000	3840	1	17.65	18.50	1.216	-	-	-0.1	0.281	0.342
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	ECI 19	656000	3840	1	17.65	18.50	1.216	-	-	0.11	0.757	0.921
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 7	ECI 19	656000	3840	1	17.65	18.50	1.216	-	-	-0.12	0.448	0.545
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 7	ECI 19	656000	3840	1	17.65	18.50	1.216	-	-	-0.07	0.304	0.370
	FR1 n77 Par27O NSA	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 7	ECI 19	656000	3840	1	12.68	13.50	1.208	-	-	0.05	0.246	0.297
	FR1 n77 Par27O NSA	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 7	ECI 19	656000	3840	1	12.68	13.50	1.208	-	-	0.04	0.143	0.173
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 7	ECI 19	656000	3840	1	17.58	18.50	1.236	-	-	-0.07	0.278	0.344
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 7	ECI 19	656000	3840	1	17.58	18.50	1.236	-	-	0.14	0.727	0.899
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 7	ECI 19	656000	3840	1	17.58	18.50	1.236	-	-	-0.11	0.436	0.539
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 7	ECI 19	656000	3840	1	17.58	18.50	1.236	-	-	0.05	0.301	0.372
	FR1 n77 Par27O	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 7	ECI 19	656000	3840	1	17.55	18.50	1.245	-	-	-0.06	0.714	0.889
	FR1 n77 Par27O	100M	QPSK	270	0	DFT-30	Right Side	10mm	Ant 7	ECI 19	656000	3840	1	17.55	18.50	1.245	-	-	0.05	0.433	0.539
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 5	ECI 19	633332	3499.98	1	19.05	19.50	1.109	-	-	0.08	0.221	0.245
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 5	ECI 19	633332	3499.98	1	19.05	19.50	1.109	-	-	-0.07	0.598	0.663
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 5	ECI 19	633332	3499.98	1	19.05	19.50	1.109	-	-	0.11	0.668	0.741
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 5	ECI 19	633332	3499.98	1	19.05	19.50	1.109	-	-	0.05	0.089	0.099
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 5	ECI 19	633332	3499.98	1	18.98	19.50	1.127	-	-	0.12	0.208	0.234
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 5	ECI 19	633332	3499.98	1	18.98	19.50	1.127	-	-	-0.03	0.566	0.638
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 5	ECI 19	633332	3499.98	1	18.98	19.50	1.127	-	-	-0.08	0.613	0.691
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 5	ECI 19	633332	3499.98	1	18.98	19.50	1.127	-	-	0.09	0.076	0.086
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 5	ECI 19	656000	3840	1	18.72	19.50	1.197	-	-	-0.03	0.226	0.270
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 5	ECI 19	656000	3840	1	18.72	19.50	1.197	-	-	-0.02	0.694	0.831
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 5	ECI 19	656000	3840	1	18.72	19.50	1.197	-	-	0.14	0.756	0.905
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 5	ECI 19	656000	3840	1	18.72	19.50	1.197	-	-	-0.02	0.100	0.120
	FR1 n77 Par27O NSA	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 5	ECI 19	656000	3840	1	13.70	14.50	1.202	-	-	0.06	0.223	0.268
	FR1 n77 Par27O NSA	100M	QPSK	1	1	DFT-30	Right Side	10mm	Ant 5	ECI 19	656000	3840	1	13.70	14.50	1.202	-	-	0.02	0.237	0.285
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 5	ECI 19	656000	3840	1	18.70	19.50	1.202	-	-	0.13	0.225	0.271



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 5	ECI 19656000	3840	1	18.70	19.50	1.202	-	-	-0.03	0.676	0.813
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Right Side	10mm	Ant 5	ECI 19656000	3840	1	18.70	19.50	1.202	-	-	-0.11	0.733	0.881
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 5	ECI 19656000	3840	1	18.70	19.50	1.202	-	-	-0.07	0.100	0.120
	FR1 n77 Par27O	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 5	ECI 19656000	3840	1	18.61	19.50	1.227	-	-	0.07	0.665	0.816
	FR1 n77 Par27O	100M	QPSK	270	0	DFT-30	Right Side	10mm	Ant 5	ECI 19656000	3840	1	18.61	19.50	1.227	-	-	0.01	0.720	0.884
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 1	ECI 19633332	3499.98	1	15.95	16.50	1.135	-	-	0.12	0.219	0.249
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 1	ECI 19633332	3499.98	1	15.95	16.50	1.135	-	-	0.12	0.526	0.597
49	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 1	ECI 19633332	3499.98	1	15.95	16.50	1.135	-	-	-0.1	0.852	0.967
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 1	ECI 19633332	3499.98	2	15.95	16.50	1.135	-	-	0.03	0.815	0.925
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 1	ECI 19633332	3499.98	1	15.95	16.50	1.135	-	-	-0.06	0.071	0.081
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 1	ECI 19633332	3499.98	1	10.44	11.00	1.138	-	-	0.07	0.152	0.173
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 1	ECI 19633332	3499.98	1	10.44	11.00	1.138	-	-	-0.1	0.243	0.276
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 1	ECI 19633332	3499.98	1	15.91	16.50	1.146	-	-	-0.15	0.194	0.222
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 1	ECI 19633332	3499.98	1	15.91	16.50	1.146	-	-	0.07	0.493	0.565
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 1	ECI 19633332	3499.98	1	15.91	16.50	1.146	-	-	-0.05	0.811	0.929
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 1	ECI 19633332	3499.98	1	15.91	16.50	1.146	-	-	0.13	0.063	0.072
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Left Side	10mm	Ant 1	ECI 19633332	3499.98	1	15.85	16.50	1.161	-	-	-0.12	0.781	0.907
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 1	ECI 19656000	3840	1	15.89	16.50	1.151	-	-	0.01	0.179	0.206
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 1	ECI 19656000	3840	1	15.89	16.50	1.151	-	-	0.14	0.403	0.464
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 1	ECI 19656000	3840	1	15.89	16.50	1.151	-	-	-0.12	0.562	0.647
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 1	ECI 19656000	3840	1	15.89	16.50	1.151	-	-	0.01	0.052	0.060
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 1	ECI 19656000	3840	1	15.87	16.50	1.156	-	-	0.07	0.171	0.198
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 1	ECI 19656000	3840	1	15.87	16.50	1.156	-	-	0.04	0.386	0.446
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 1	ECI 19656000	3840	1	15.87	16.50	1.156	-	-	-0.11	0.538	0.622
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 1	ECI 19656000	3840	1	15.87	16.50	1.156	-	-	0.06	0.049	0.057
	FR1 n77 Par27O	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 1	ECI 19656000	3840	1	15.78	16.50	1.180	-	-	0.06	0.375	0.443
	FR1 n77 Par27O	100M	QPSK	270	0	DFT-30	Left Side	10mm	Ant 1	ECI 19656000	3840	1	15.78	16.50	1.180	-	-	0.13	0.526	0.621
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 3	ECI 19633332	3499.98	1	20.65	21.50	1.216	-	-	0.05	0.586	0.713
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 3	ECI 19633332	3499.98	1	20.65	21.50	1.216	-	-	0.15	0.452	0.550
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 3	ECI 19633332	3499.98	1	20.65	21.50	1.216	-	-	0.08	0.385	0.468
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 3	ECI 19633332	3499.98	1	20.65	21.50	1.216	-	-	-0.04	0.250	0.304
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 3	ECI 19633332	3499.98	1	20.63	21.50	1.222	-	-	0.12	0.571	0.698
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 3	ECI 19633332	3499.98	1	20.63	21.50	1.222	-	-	-0.01	0.442	0.540
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 3	ECI 19633332	3499.98	1	20.63	21.50	1.222	-	-	-0.03	0.354	0.433
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 3	ECI 19633332	3499.98	1	20.63	21.50	1.222	-	-	0.07	0.234	0.286
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 3	ECI 19656000	3840	1	20.83	21.50	1.167	-	-	-0.1	0.664	0.775
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 3	ECI 19656000	3840	1	20.83	21.50	1.167	-	-	-0.04	0.564	0.658
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 3	ECI 19656000	3840	1	20.83	21.50	1.167	-	-	0.01	0.776	0.905
	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Top Side	10mm	Ant 3	ECI 19656000	3840	1	20.83	21.50	1.167	-	-	-0.04	0.406	0.474
	FR1 n77 Par27O NSA	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 3	ECI 19656000	3840	1	15.85	16.50	1.161	-	-	0.05	0.216	0.251
	FR1 n77 Par27O NSA	100M	QPSK	1	1	DFT-30	Back	10mm	Ant 3	ECI 19656000	3840	1	15.85	16.50	1.161	-	-	0.07	0.187	0.217
	FR1 n77 Par27O NSA	100M	QPSK	1	1	DFT-30	Left Side	10mm	Ant 3	ECI 19656000	3840	1	15.85	16.50	1.161	-	-	0.15	0.249	0.289
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Front	10mm	Ant 3	ECI 19656000	3840	1	20.80	21.50	1.175	-	-	0.09	0.611	0.718
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Back	10mm	Ant 3	ECI 19656000	3840	1	20.80	21.50	1.175	-	-	0.05	0.533	0.626
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Left Side	10mm	Ant 3	ECI 19656000	3840	1	20.80	21.50	1.175	-	-	0.11	0.700	0.822
	FR1 n77 Par27O	100M	QPSK	135	69	DFT-30	Top Side	10mm	Ant 3	ECI 19656000	3840	1	20.80	21.50	1.175	-	-	0.06	0.389	0.457
	FR1 n77 Par27O	100M	QPSK	270	0	DFT-30	Front	10mm	Ant 3	ECI 19656000	3840	1	20.76	21.50	1.186	-	-	0.15	0.626	0.742
	FR1 n77 Par27O	100M	QPSK	270	0	DFT-30	Back	10mm	Ant 3	ECI 19656000	3840	1	20.76	21.50	1.186	-	-	0.01	0.521	0.618
	FR1 n77 Par27O	100M	QPSK	270	0	DFT-30	Left Side	10mm	Ant 3	ECI 19656000	3840	1	20.76	21.50	1.186	-	-	-0.11	0.689	0.817
	FR1 n77 Par27O	100M	QPSK	270	0	DFT-30	Top Side	10mm	Ant 3	ECI 19656000	3840	1	20.76	21.50	1.186	-	-	0.05	0.377	0.447



FCC SAR Test Report

Report No. : FA4N1331

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WLAN2.4GHz&BT																	
50	Bluetooth	DH5 1Mbps	Front	10mm	Ant 6	Full	39	2441	1	17.25	18.50	1.334	76.53	1.307	0.15	0.066	0.115
	Bluetooth	DH5 1Mbps	Back	10mm	Ant 6	Full	39	2441	1	17.25	18.50	1.334	76.53	1.307	0.08	0.087	0.152
	Bluetooth	DH5 1Mbps	Right Side	10mm	Ant 6	Full	39	2441	1	17.25	18.50	1.334	76.53	1.307	-0.06	0.121	0.211
	Bluetooth	DH5 1Mbps	Top Side	10mm	Ant 6	Full	39	2441	1	17.25	18.50	1.334	76.53	1.307	-0.07	0.038	0.066
51	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 6	Full	6	2437	1	18.27	20.00	1.489	99.53	1.005	-0.13	0.131	0.196
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 6	Full	6	2437	1	18.27	20.00	1.489	99.53	1.005	-0.1	0.166	0.248
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 6	Full	6	2437	1	18.27	20.00	1.489	99.53	1.005	0.06	0.176	0.263
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 6	Full	6	2437	1	18.27	20.00	1.489	99.53	1.005	0.04	0.067	0.100
WLAN5GHz																	
52	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10mm	Ant 6	Standalone	38	5190	1	16.66	18.00	1.361	93.1	1.074	0.08	0.268	0.392
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10mm	Ant 6	Standalone	38	5190	1	16.66	18.00	1.361	93.1	1.074	0.05	0.433	0.633
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6	Standalone	38	5190	1	16.66	18.00	1.361	93.1	1.074	-0.14	0.750	1.097
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6	Standalone	38	5190	2	16.66	18.00	1.361	93.1	1.074	0.09	0.712	1.041
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 6	Standalone	38	5190	1	16.66	18.00	1.361	93.1	1.074	-0.07	0.171	0.250
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6	Standalone	46	5230	1	16.59	18.00	1.384	93.1	1.074	0.09	0.732	1.088
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	WWAN+5G/5G+BT	42	5210	1	13.63	15.00	1.371	87.88	1.138	0.01	0.135	0.211
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	WWAN+5G/5G+BT	42	5210	1	13.63	15.00	1.371	87.88	1.138	-0.06	0.224	0.349
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6	WWAN+5G/5G+BT	42	5210	1	13.63	15.00	1.371	87.88	1.138	-0.15	0.356	0.555
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6	WWAN+5G/5G+BT	42	5210	1	13.63	15.00	1.371	87.88	1.138	-0.11	0.091	0.142
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	WWAN+5G+BT	42	5210	1	11.62	13.00	1.374	87.88	1.138	0.1	0.091	0.142
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	WWAN+5G+BT	42	5210	1	11.62	13.00	1.374	87.88	1.138	-0.11	0.152	0.238
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6	WWAN+5G+BT	42	5210	1	11.62	13.00	1.374	87.88	1.138	0.13	0.235	0.367
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6	WWAN+5G+BT	42	5210	1	11.62	13.00	1.374	87.88	1.138	0.05	0.061	0.095
53	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	Standalone	155	5775	1	15.37	17.00	1.455	87.88	1.138	0.08	0.188	0.311
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	Standalone	155	5775	1	15.37	17.00	1.455	87.88	1.138	0.01	0.643	1.065
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6	Standalone	155	5775	1	15.37	17.00	1.455	87.88	1.138	0.05	0.512	0.848
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6	Standalone	155	5775	1	15.37	17.00	1.455	87.88	1.138	-0.04	0.167	0.277
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	WWAN+5G/5G+BT	155	5775	1	12.42	14.00	1.439	87.88	1.138	0.14	0.102	0.167
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	WWAN+5G/5G+BT	155	5775	1	12.42	14.00	1.439	87.88	1.138	-0.04	0.331	0.542
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6	WWAN+5G/5G+BT	155	5775	1	12.42	14.00	1.439	87.88	1.138	-0.01	0.267	0.437
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6	WWAN+5G/5G+BT	155	5775	1	12.42	14.00	1.439	87.88	1.138	0.04	0.089	0.146
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	WWAN+5G+BT	155	5775	1	10.42	12.00	1.439	87.88	1.138	-0.02	0.068	0.111
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	WWAN+5G+BT	155	5775	1	10.42	12.00	1.439	87.88	1.138	0.11	0.211	0.345
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6	WWAN+5G+BT	155	5775	1	10.42	12.00	1.439	87.88	1.138	-0.01	0.176	0.288
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6	WWAN+5G+BT	155	5775	1	10.42	12.00	1.439	87.88	1.138	0.12	0.061	0.100



15.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
54	LTE Band 71	20M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 17	133297	680.5	1	23.41	24.50	1.285	-	-	-0.01	0.143	0.184
	LTE Band 71	20M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 17	133297	680.5	1	23.41	24.50	1.285	-	-	0.05	0.185	0.238
	LTE Band 71	20M	QPSK	50	0	-	Front	15mm	Ant 0	ECI 17	133297	680.5	1	22.39	23.50	1.291	-	-	0.09	0.108	0.139
	LTE Band 71	20M	QPSK	50	0	-	Back	15mm	Ant 0	ECI 17	133297	680.5	1	22.39	23.50	1.291	-	-	-0.12	0.142	0.183
	LTE Band 71	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 17	133297	680.5	1	23.69	24.50	1.205	-	-	0.13	0.098	0.118
	LTE Band 71	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 17	133297	680.5	1	23.69	24.50	1.205	-	-	-0.04	0.103	0.124
	LTE Band 71	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 17	133297	680.5	1	22.71	23.50	1.199	-	-	-0.07	0.077	0.092
	LTE Band 71	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 17	133297	680.5	1	22.71	23.50	1.199	-	-	-0.08	0.079	0.095
55	LTE Band 12	10M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 17	23095	707.5	1	23.50	24.50	1.259	-	-	-0.03	0.129	0.162
	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 17	23095	707.5	1	23.50	24.50	1.259	-	-	0.14	0.200	0.252
	LTE Band 12	10M	QPSK	25	0	-	Front	15mm	Ant 0	ECI 17	23095	707.5	1	22.30	23.50	1.318	-	-	0.03	0.106	0.140
	LTE Band 12	10M	QPSK	25	0	-	Back	15mm	Ant 0	ECI 17	23095	707.5	1	22.30	23.50	1.318	-	-	-0.05	0.161	0.212
	LTE Band 12	10M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 17	23095	707.5	1	23.72	24.50	1.197	-	-	0.05	0.072	0.086
	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 17	23095	707.5	1	23.72	24.50	1.197	-	-	0.1	0.081	0.097
	LTE Band 12	10M	QPSK	25	0	-	Front	15mm	Ant 4	ECI 17	23095	707.5	1	22.60	23.50	1.230	-	-	-0.03	0.058	0.071
	LTE Band 12	10M	QPSK	25	0	-	Back	15mm	Ant 4	ECI 17	23095	707.5	1	22.60	23.50	1.230	-	-	-0.05	0.066	0.081
56	FR1 n71	15M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	ECI 17	136100	680.5	1	23.28	24.50	1.324	-	-	-0.04	0.151	0.200
	FR1 n71	15M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	ECI 17	136100	680.5	1	23.28	24.50	1.324	-	-	0.07	0.177	0.234
	FR1 n71	15M	QPSK	36	22	DFT-15	Front	15mm	Ant 0	ECI 17	136100	680.5	1	23.25	24.50	1.334	-	-	-0.05	0.145	0.193
	FR1 n71	15M	QPSK	36	22	DFT-15	Back	15mm	Ant 0	ECI 17	136100	680.5	1	23.25	24.50	1.334	-	-	-0.08	0.170	0.227
	FR1 n71	15M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	ECI 17	136100	680.5	1	23.35	24.50	1.303	-	-	-0.1	0.100	0.130
	FR1 n71	15M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 17	136100	680.5	1	23.35	24.50	1.303	-	-	0.09	0.105	0.137
	FR1 n71	15M	QPSK	36	22	DFT-15	Front	15mm	Ant 4	ECI 17	136100	680.5	1	23.28	24.50	1.324	-	-	0.11	0.096	0.127
	FR1 n71	15M	QPSK	36	22	DFT-15	Back	15mm	Ant 4	ECI 17	136100	680.5	1	23.28	24.50	1.324	-	-	0.14	0.099	0.131
57	FR1 n12	15M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	ECI 17	141500	707.5	1	23.30	24.50	1.318	-	-	-0.13	0.141	0.186
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	ECI 17	141500	707.5	1	23.30	24.50	1.318	-	-	-0.01	0.158	0.208
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	15mm	Ant 0	ECI 17	141500	707.5	1	23.29	24.50	1.321	-	-	0.03	0.132	0.174
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	15mm	Ant 0	ECI 17	141500	707.5	1	23.29	24.50	1.321	-	-	-0.05	0.151	0.200
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	ECI 17	141500	707.5	1	23.36	24.50	1.300	-	-	-0.09	0.081	0.105
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 17	141500	707.5	1	23.36	24.50	1.300	-	-	0.01	0.092	0.120
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	15mm	Ant 4	ECI 17	141500	707.5	1	23.30	24.50	1.318	-	-	0.13	0.077	0.102
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	15mm	Ant 4	ECI 17	141500	707.5	1	23.30	24.50	1.318	-	-	-0.11	0.085	0.112
835MHz																					
58	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 0	ECI 17	189	836.4	1	27.23	28.50	1.340	-	-	0.11	0.126	0.169
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 0	ECI 17	189	836.4	1	27.23	28.50	1.340	-	-	0.05	0.238	0.319
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 4	ECI 17	189	836.4	1	26.87	28.00	1.297	-	-	0.03	0.133	0.173
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 4	ECI 17	189	836.4	1	26.87	28.00	1.297	-	-	0.11	0.170	0.221
59	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	ECI 17	4182	836.4	1	23.95	25.00	1.274	-	-	0.07	0.176	0.224
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	ECI 17	4182	836.4	1	23.95	25.00	1.274	-	-	-0.02	0.295	0.376
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	ECI 17	4182	836.4	2	23.95	25.00	1.274	-	-	0.05	0.255	0.325
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 4	ECI 17	4182	836.4	1	24.00	24.50	1.122	-	-	0.11	0.112	0.126
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 17	4182	836.4	1	24.00	24.50	1.122	-	-	0.02	0.142	0.159
60	LTE Band 5	10M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 17	20525	836.5	1	23.87	25.00	1.297	-	-	0.03	0.156	0.202
	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 17	20525	836.5	1	23.87	25.00	1.297	-	-	-0.11	0.266	0.345
	LTE Band 5	10M	QPSK	25	0	-	Front	15mm	Ant 0	ECI 17	20525	836.5	1	22.77	24.00	1.327	-	-	-0.08	0.128	0.170
	LTE Band 5	10M	QPSK	25	0	-	Back	15mm	Ant 0	ECI 17	20525	836.5	1	22.77	24.00	1.327	-	-	0.08	0.212	0.281
	LTE Band 5	10M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 17	20525	836.5	1	23.66	25.00	1.361	-	-	-0.14	0.090	0.123
	LTE Band 5	10M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 17	20525	836.5	1	23.66	25.00	1.361	-	-	-0.02	0.123	0.167
	LTE Band 5	10M	QPSK	25	0	-	Front	15mm	Ant 4	ECI 17	20525	836.5	1	22.63	24.00	1.371	-	-	-0.01	0.076	0.104
	LTE Band 5	10M	QPSK	25	0	-	Back	15mm	Ant 4	ECI 17	20525	836.5	1	22.63	24.00	1.371	-	-	0.09	0.099	0.136



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 0	ECI 17	26865	831.5	1	23.92	24.50	1.143	-	-	0.06	0.140	0.160
61	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 0	ECI 17	26865	831.5	1	23.92	24.50	1.143	-	-	-0.15	0.243	0.278
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 0	ECI 17	26865	831.5	1	22.88	23.50	1.153	-	-	-0.07	0.115	0.133
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 0	ECI 17	26865	831.5	1	22.88	23.50	1.153	-	-	-0.02	0.184	0.212
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 17	26865	831.5	1	23.75	24.50	1.189	-	-	0.07	0.085	0.101
	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 17	26865	831.5	1	23.75	24.50	1.189	-	-	0.15	0.111	0.132
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 4	ECI 17	26865	831.5	1	22.66	23.50	1.213	-	-	0.04	0.069	0.084
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 4	ECI 17	26865	831.5	1	22.66	23.50	1.213	-	-	0.08	0.095	0.115
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 0	ECI 17	167300	836.5	1	23.70	25.00	1.349	-	-	-0.15	0.162	0.219
62	FR1 n5	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	ECI 17	167300	836.5	1	23.70	25.00	1.349	-	-	0.06	0.243	0.328
	FR1 n5_NSA	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 0	ECI 18	167300	836.5	1	22.65	24.00	1.365	-	-	0.02	0.193	0.263
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 0	ECI 17	167300	836.5	1	23.62	25.00	1.374	-	-	-0.07	0.157	0.216
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 0	ECI 17	167300	836.5	1	23.62	25.00	1.374	-	-	0.13	0.233	0.320
	FR1 n5	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	ECI 17	167300	836.5	1	23.56	25.00	1.393	-	-	0.12	0.100	0.139
	FR1 n5	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 17	167300	836.5	1	23.56	25.00	1.393	-	-	-0.12	0.127	0.177
	FR1 n5	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 4	ECI 17	167300	836.5	1	23.52	25.00	1.406	-	-	-0.03	0.089	0.125
	FR1 n5	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 4	ECI 17	167300	836.5	1	23.52	25.00	1.406	-	-	0.07	0.118	0.166
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 4	ECI 17	1413	1732.6	1	23.85	25.00	1.303	-	-	0.13	0.362	0.472
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 17	1413	1732.6	1	23.85	25.00	1.303	-	-	-0.06	0.674	0.878
63	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 17	1312	1712.4	1	23.83	25.00	1.309	-	-	-0.14	0.673	0.881
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 17	1513	1752.6	1	23.78	25.00	1.324	-	-	0.05	0.655	0.867
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	ECI 17	1413	1732.6	1	23.93	25.00	1.279	-	-	0.02	0.242	0.310
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	ECI 17	1413	1732.6	1	23.93	25.00	1.279	-	-	0.04	0.375	0.480
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	ECI 17	1413	1732.6	1	23.90	25.00	1.288	-	-	0.15	0.276	0.356
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	ECI 17	1413	1732.6	1	23.90	25.00	1.288	-	-	0.05	0.347	0.447
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 17	132322	1745	1	23.38	24.50	1.294	-	-	0.1	0.302	0.391
64	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 17	132322	1745	1	23.38	24.50	1.294	-	-	-0.13	0.557	0.721
	LTE Band 66_NSA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 18	132322	1745	1	22.40	23.50	1.288	-	-	0.06	0.452	0.582
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 17	132322	1745	1	22.33	23.50	1.309	-	-	0.14	0.236	0.309
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 17	132322	1745	1	22.33	23.50	1.309	-	-	-0.09	0.452	0.592
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 1	ECI 17	132322	1745	1	23.45	24.50	1.274	-	-	-0.07	0.203	0.259
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 17	132322	1745	1	23.45	24.50	1.274	-	-	-0.1	0.331	0.422
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 1	ECI 17	132322	1745	1	22.42	23.50	1.282	-	-	0.14	0.149	0.191
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 1	ECI 17	132322	1745	1	22.42	23.50	1.282	-	-	-0.09	0.259	0.332
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 17	132322	1745	1	23.48	24.50	1.265	-	-	0.1	0.218	0.276
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 17	132322	1745	1	23.48	24.50	1.265	-	-	0.12	0.288	0.364
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 17	132322	1745	1	22.46	23.50	1.271	-	-	-0.02	0.171	0.217
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 17	132322	1745	1	22.46	23.50	1.271	-	-	-0.07	0.225	0.286
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	ECI 17	349000	1745	1	22.93	24.50	1.435	-	-	0.15	0.305	0.438
65	FR1 n66	30M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 17	349000	1745	1	22.93	24.50	1.435	-	-	-0.03	0.483	0.693
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 18	349000	1745	1	18.45	20.00	1.429	-	-	0.07	0.179	0.256
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	15mm	Ant 4	ECI 17	349000	1745	1	22.90	24.50	1.445	-	-	-0.03	0.293	0.424
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	15mm	Ant 4	ECI 17	349000	1745	1	22.90	24.50	1.445	-	-	0.02	0.476	0.688
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	15mm	Ant 1	ECI 17	349000	1745	1	23.30	24.50	1.318	-	-	-0.11	0.214	0.282
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 17	349000	1745	1	23.30	24.50	1.318	-	-	0.15	0.318	0.419
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 18	349000	1745	1	21.83	23.00	1.309	-	-	0.06	0.210	0.275
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	15mm	Ant 1	ECI 17	349000	1745	1	23.23	24.50	1.340	-	-	0.15	0.203	0.272
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	15mm	Ant 1	ECI 17	349000	1745	1	23.23	24.50	1.340	-	-	-0.15	0.309	0.414
	FR1 n66	30M	QPSK	1	1	DFT-15	Front	15mm	Ant 2	ECI 17	349000	1745	1	23.27	24.50	1.327	-	-	0.04	0.230	0.305
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	ECI 17	349000	1745	1	23.27	24.50	1.327	-	-	-0.07	0.291	0.386
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	ECI 18	349000	1745	1	22.29	23.50	1.321	-	-	-0.02	0.229	0.303
	FR1 n66	30M	QPSK	80	40	DFT-15	Front	15mm	Ant 2	ECI 17	349000	1745	1	23.21	24.50	1.346	-	-	-0.02	0.228	0.307
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	15mm	Ant 2	ECI 17	349000	1745	1	23.21	24.50	1.346	-	-	0.05	0.281	0.378
1900MHz																					



FCC SAR Test Report

Report No. : FA4N1331

	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 4	ECI 17	810	1909.8	1	25.37	26.50	1.297	-	-	-0.01	0.259	0.336
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 4	ECI 17	810	1909.8	1	25.37	26.50	1.297	-	-	0.05	0.650	0.843
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 4	ECI 17	512	1850.2	1	24.94	26.50	1.432	-	-	-0.11	0.326	0.467
66	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 4	ECI 17	661	1880	1	25.06	26.50	1.393	-	-	0.08	0.680	0.947
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 1	ECI 17	810	1909.8	1	25.32	26.50	1.312	-	-	-0.08	0.131	0.172
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 1	ECI 17	810	1909.8	1	25.32	26.50	1.312	-	-	0.05	0.235	0.308
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 2	ECI 17	810	1909.8	1	25.38	26.50	1.294	-	-	-0.06	0.113	0.146
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 2	ECI 17	810	1909.8	1	25.38	26.50	1.294	-	-	-0.08	0.283	0.366
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 4	ECI 17	9400	1880	1	22.02	23.00	1.253	-	-	0.12	0.330	0.414
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 17	9400	1880	1	22.02	23.00	1.253	-	-	0.12	0.769	0.964
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 17	9262	1852.4	1	21.97	23.00	1.268	-	-	0.09	0.446	0.565
67	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 17	9538	1907.6	1	21.92	23.00	1.282	-	-	0.14	0.800	1.026
	WCDMA II_SA	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 4	ECI 18	9538	1907.6	1	21.37	22.50	1.297	-	-	0.06	0.731	0.948
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	ECI 17	9400	1880	1	24.08	25.00	1.236	-	-	0.02	0.258	0.319
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	ECI 17	9400	1880	1	24.08	25.00	1.236	-	-	-0.14	0.526	0.650
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	ECI 17	9400	1880	1	21.64	22.50	1.219	-	-	0.01	0.182	0.222
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	ECI 17	9400	1880	1	21.64	22.50	1.219	-	-	0.02	0.306	0.373
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 17	18900	1880	1	22.40	23.50	1.288	-	-	0.04	0.333	0.429
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 17	18900	1880	1	22.40	23.50	1.288	-	-	0.07	0.755	0.973
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 17	18700	1860	1	22.36	23.50	1.300	-	-	0.09	0.456	0.593
68	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 17	19100	1900	1	22.32	23.50	1.312	-	-	-0.13	0.809	1.062
	LTE Band 2 NSA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 17	19100	1900	1	21.93	23.00	1.279	-	-	0.02	0.706	0.903
	LTE Band 2_SA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 18	19100	1900	1	21.72	23.00	1.343	-	-	0.02	0.706	0.948
	LTE Band 2 NSA	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 18	19100	1900	1	20.42	21.50	1.282	-	-	0.08	0.488	0.626
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 17	18900	1880	1	22.38	23.50	1.294	-	-	0.13	0.312	0.404
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 17	18900	1880	1	22.38	23.50	1.294	-	-	-0.05	0.751	0.972
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 17	18700	1860	1	22.33	23.50	1.309	-	-	-0.1	0.434	0.568
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 17	19100	1900	1	22.29	23.50	1.321	-	-	0.12	0.791	1.045
	LTE Band 2	20M	QPSK	100	0	-	Back	15mm	Ant 4	ECI 17	18900	1880	1	22.34	23.50	1.306	-	-	0.07	0.725	0.947
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 1	ECI 17	18900	1880	1	23.43	24.50	1.279	-	-	-0.02	0.214	0.274
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 17	18900	1880	1	23.43	24.50	1.279	-	-	0.08	0.449	0.574
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 1	ECI 17	18900	1880	1	22.40	23.50	1.288	-	-	0.01	0.171	0.220
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 1	ECI 17	18900	1880	1	22.40	23.50	1.288	-	-	0.06	0.343	0.442
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 17	18900	1880	1	23.55	24.50	1.245	-	-	0.03	0.197	0.245
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 17	18900	1880	1	23.55	24.50	1.245	-	-	-0.06	0.376	0.468
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 17	18900	1880	1	22.45	23.50	1.274	-	-	0.15	0.155	0.197
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 17	18900	1880	1	22.45	23.50	1.274	-	-	0	0.277	0.353
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	ECI 17	376000	1880	1	23.14	24.50	1.368	-	-	0.08	0.346	0.473
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 17	376000	1880	1	23.14	24.50	1.368	-	-	0.1	0.772	1.056
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 17	372000	1860	1	23.09	24.50	1.384	-	-	-0.01	0.511	0.707
69	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 17	380000	1900	1	23.12	24.50	1.374	-	-	-0.05	0.797	1.095
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 17	380000	1900	2	23.12	24.50	1.374	-	-	0.06	0.751	1.032
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 17	380000	1900	1	19.15	20.50	1.365	-	-	-0.05	0.314	0.428
	FR1 n2_SA	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 18	380000	1900	1	22.10	23.50	1.380	-	-	0.02	0.613	0.846
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 18	380000	1900	1	17.13	18.50	1.371	-	-	0.09	0.208	0.285
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 4	ECI 17	376000	1880	1	23.05	24.50	1.396	-	-	0.15	0.339	0.473
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 4	ECI 17	376000	1880	1	23.05	24.50	1.396	-	-	0.1	0.750	1.047
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 4	ECI 17	372000	1860	1	22.96	24.50	1.426	-	-	0.08	0.488	0.696
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 4	ECI 17	380000	1900	1	22.98	24.50	1.419	-	-	0.02	0.770	1.093
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	15mm	Ant 4	ECI 17	376000	1880	1	21.95	23.50	1.429	-	-	0.02	0.722	1.032
	FR1 n2	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 1	ECI 17	376000	1880	1	23.15	24.50	1.365	-	-	0.05	0.211	0.288
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 17	376000	1880	1	23.15	24.50	1.365	-	-	-0.07	0.401	0.547
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 18	376000	1880	1	20.20	21.50	1.349	-	-	0.02	0.200	0.270
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 1	ECI 17	376000	1880	1	23.08	24.50	1.387	-	-	-0.06	0.203	0.282
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 1	ECI 17	376000	1880	1	23.08	24.50	1.387	-	-	-0.06	0.383	0.531



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n2	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 2	ECI 17376000	1880	1	22.90	24.50	1.445	-	-	-0.08	0.197	0.285
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	ECI 17376000	1880	1	22.90	24.50	1.445	-	-	0.04	0.372	0.538
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	ECI 18376000	1880	1	19.96	21.50	1.426	-	-	0.12	0.196	0.279
	FR1 n2	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 2	ECI 17376000	1880	1	22.62	24.50	1.542	-	-	-0.04	0.182	0.281
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 2	ECI 17376000	1880	1	22.62	24.50	1.542	-	-	0.04	0.342	0.527
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 1721100	2535	1	23.67	24.50	1.211	-	-	-0.07	0.303	0.367
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 1721100	2535	1	23.67	24.50	1.211	-	-	-0.09	0.497	0.602
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 1721100	2535	1	22.60	23.50	1.230	-	-	0.01	0.240	0.295
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 1721100	2535	1	22.60	23.50	1.230	-	-	-0.02	0.385	0.474
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 1	ECI 1721100	2535	1	23.12	24.50	1.374	-	-	-0.1	0.524	0.720
70	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1721100	2535	1	23.12	24.50	1.374	-	-	-0.19	0.765	1.051
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1720850	2510	1	23.05	24.50	1.396	-	-	0.03	0.666	0.930
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1721350	2560	1	23.10	24.50	1.380	-	-	-0.09	0.752	1.038
	LTE Band 7 NSA	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1721100	2535	1	22.10	23.50	1.380	-	-	0.12	0.599	0.827
	LTE Band 7 SA	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1821100	2535	1	22.14	23.50	1.368	-	-	0.12	0.599	0.819
	LTE Band 7 NSA	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1821100	2535	1	21.12	22.50	1.374	-	-	0.05	0.460	0.632
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 1	ECI 1721100	2535	1	22.05	23.50	1.396	-	-	0.03	0.410	0.573
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 1	ECI 1721100	2535	1	22.05	23.50	1.396	-	-	0.04	0.612	0.855
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 1	ECI 1720850	2510	1	21.99	23.50	1.416	-	-	-0.06	0.533	0.755
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 1	ECI 1721350	2560	1	22.00	23.50	1.413	-	-	0.02	0.606	0.856
	LTE Band 7	20M	QPSK	100	0	-	Back	15mm	Ant 1	ECI 1721100	2535	1	22.03	23.50	1.403	-	-	0.15	0.598	0.839
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 1721100	2535	1	21.38	22.00	1.153	-	-	0.13	0.151	0.174
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 1721100	2535	1	21.38	22.00	1.153	-	-	-0.13	0.326	0.376
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 1721100	2535	1	21.35	22.00	1.161	-	-	-0.14	0.142	0.165
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 1721100	2535	1	21.35	22.00	1.161	-	-	0.02	0.317	0.368
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 4	ECI 1740620	2593	1	23.63	24.50	1.222	62.9	1.006	0.15	0.233	0.286
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 1740620	2593	1	23.63	24.50	1.222	62.9	1.006	-0.1	0.319	0.392
	LTE Band 41C	20M	QPSK	1	0	-	Back	15mm	Ant 4	ECI 1740620+40422	2593+2573.2	1	23.32	24.50	1.312	62.9	1.006	0.02	0.278	0.367
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 4	ECI 1740620	2593	1	22.60	23.50	1.230	62.9	1.006	0.03	0.187	0.231
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 4	ECI 1740620	2593	1	22.60	23.50	1.230	62.9	1.006	-0.15	0.261	0.323
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 1	ECI 1740620	2593	1	23.55	24.50	1.245	62.9	1.006	0.05	0.396	0.496
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1740620	2593	1	23.55	24.50	1.245	62.9	1.006	0.09	0.546	0.684
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1739750	2506	1	23.18	24.50	1.355	62.9	1.006	-0.01	0.412	0.562
71	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1740185	2549.5	1	23.00	24.50	1.413	62.9	1.006	-0.08	0.533	0.757
	LTE Band 41C	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1740185+39987	2549.5+2529.7	1	22.99	24.50	1.416	62.9	1.006	-0.15	0.466	0.664
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1741055	2636.5	1	23.26	24.50	1.330	62.9	1.006	0.03	0.463	0.620
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1741490	2680	1	23.48	24.50	1.265	62.9	1.006	-0.13	0.325	0.414
	LTE Band 41 NSA	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 1840185	2549.5	1	21.99	23.50	1.416	62.9	1.006	0.03	0.422	0.601
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 1	ECI 1740620	2593	1	22.48	23.50	1.265	62.9	1.006	0.08	0.323	0.411
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 1	ECI 1740620	2593	1	22.48	23.50	1.265	62.9	1.006	-0.04	0.441	0.561
	LTE Band 41	20M	QPSK	100	0	-	Back	15mm	Ant 1	ECI 1740620	2593	1	22.41	23.50	1.285	62.9	1.006	-0.06	0.431	0.557
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 2	ECI 1740620	2593	1	23.27	24.00	1.183	62.9	1.006	-0.05	0.240	0.286
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 1740620	2593	1	23.27	24.00	1.183	62.9	1.006	-0.04	0.465	0.553
	LTE Band 41C	20M	QPSK	1	0	-	Back	15mm	Ant 2	ECI 1740620+40422	2593+2573.2	1	23.22	24.00	1.197	62.9	1.006	0.12	0.393	0.473
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 2	ECI 1740620	2593	1	22.77	23.50	1.183	62.9	1.006	0.02	0.218	0.259
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 2	ECI 1740620	2593	1	22.77	23.50	1.183	62.9	1.006	0.07	0.419	0.499
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 4	ECI 17507000	2535	1	23.05	24.50	1.396	-	-	-0.11	0.298	0.416
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 17507000	2535	1	23.05	24.50	1.396	-	-	-0.15	0.443	0.619
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 4	ECI 18507000	2535	1	19.00	20.50	1.413	-	-	0.01	0.180	0.254
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 4	ECI 17507000	2535	1	22.98	24.50	1.419	-	-	0.07	0.291	0.413
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 4	ECI 17507000	2535	1	22.98	24.50	1.419	-	-	0.12	0.431	0.612
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 1	ECI 17507000	2535	1	23.12	24.50	1.374	-	-	0.11	0.508	0.698
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 17507000	2535	1	23.12	24.50	1.374	-	-	0.15	0.728	1.000



FCC SAR Test Report

Report No. : FA4N1331

72	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 17502000	2510	1	23.08	24.50	1.387	-	-	-0.03	0.778	1.079
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 17502000	2510	2	23.08	24.50	1.387	-	-	0.09	0.742	1.029
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 17512000	2560	1	23.04	24.50	1.400	-	-	0.11	0.760	1.064
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 17502000	2510	1	19.10	20.50	1.380	-	-	0.02	0.308	0.425
	FR1 n7_SA	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 18502000	2510	1	22.10	23.50	1.380	-	-	-0.08	0.614	0.848
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 1	ECI 18502000	2510	1	17.02	18.50	1.406	-	-	0.06	0.190	0.267
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	15mm	Ant 1	ECI 17507000	2535	1	23.08	24.50	1.387	-	-	0.14	0.497	0.689
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 1	ECI 17507000	2535	1	23.08	24.50	1.387	-	-	0.04	0.711	0.986
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 1	ECI 17502000	2510	1	23.02	24.50	1.406	-	-	0.11	0.751	1.056
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	15mm	Ant 1	ECI 17512000	2560	1	22.97	24.50	1.422	-	-	0.03	0.735	1.045
	FR1 n7	20M	QPSK	100	0	DFT-15	Back	15mm	Ant 1	ECI 17507000	2535	1	22.00	23.50	1.413	-	-	-0.15	0.686	0.969
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	15mm	Ant 2	ECI 17507000	2535	1	20.18	21.50	1.355	-	-	-0.08	0.129	0.175
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	15mm	Ant 2	ECI 17507000	2535	1	20.18	21.50	1.355	-	-	0.1	0.230	0.312
	FR1 n7	20M	QPSK	50	28	DFT-30	Front	15mm	Ant 2	ECI 17507000	2535	1	20.16	21.50	1.361	-	-	0.07	0.124	0.169
	FR1 n7	20M	QPSK	50	28	DFT-30	Back	15mm	Ant 2	ECI 17507000	2535	1	20.16	21.50	1.361	-	-	0.04	0.215	0.293
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	ECI 175185982592.99	1	1	24.25	26.00	1.496	-	-	0.02	0.457	0.684
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	ECI 175185982592.99	1	1	24.25	26.00	1.496	-	-	0.1	0.690	1.032
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	ECI 175185982592.99	1	1	20.33	22.00	1.469	-	-	0.05	0.265	0.389
	FR1 n41_SA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	ECI 185185982592.99	1	1	23.77	25.50	1.489	-	-	-0.07	0.605	0.901
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 4	ECI 185185982592.99	1	1	18.32	20.00	1.472	-	-	0.05	0.121	0.178
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 4	ECI 185185982592.99	1	1	18.32	20.00	1.472	-	-	-0.02	0.181	0.266
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 4	ECI 175185982592.99	1	1	24.11	26.00	1.545	-	-	0.04	0.429	0.663
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 4	ECI 175185982592.99	1	1	24.11	26.00	1.545	-	-	0.07	0.652	1.008
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	15mm	Ant 4	ECI 175185982592.99	1	1	23.10	25.00	1.549	-	-	0.06	0.335	0.519
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 4	ECI 175185982592.99	1	1	23.10	25.00	1.549	-	-	0.01	0.537	0.832
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 1	ECI 175185982592.99	1	1	23.12	24.50	1.374	-	-	-0.05	0.571	0.785
73	FR1 n41	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	ECI 175185982592.99	1	1	23.12	24.50	1.374	-	-	0.09	0.781	1.073
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	ECI 175185982592.99	1	1	18.30	20.00	1.479	-	-	-0.05	0.275	0.407
	FR1 n41_SA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	ECI 185185982592.99	1	1	21.81	23.50	1.476	-	-	0.02	0.619	0.913
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 1	ECI 185185982592.99	1	1	16.35	18.00	1.462	-	-	0.05	0.132	0.193
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	ECI 185185982592.99	1	1	16.35	18.00	1.462	-	-	0.06	0.186	0.272
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 1	ECI 175185982592.99	1	1	23.11	24.50	1.377	-	-	0.03	0.558	0.768
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 1	ECI 175185982592.99	1	1	23.11	24.50	1.377	-	-	0.06	0.761	1.048
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	15mm	Ant 1	ECI 175185982592.99	1	1	22.99	24.50	1.416	-	-	0.08	0.526	0.745
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 1	ECI 175185982592.99	1	1	22.99	24.50	1.416	-	-	0.01	0.733	1.038
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 2	ECI 175185982592.99	1	1	19.75	21.00	1.334	-	-	0.01	0.129	0.172
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 2	ECI 175185982592.99	1	1	19.75	21.00	1.334	-	-	-0.05	0.225	0.300
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 2	ECI 175185982592.99	1	1	19.72	21.00	1.343	-	-	-0.06	0.136	0.183
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 2	ECI 175185982592.99	1	1	19.72	21.00	1.343	-	-	-0.11	0.229	0.307
3000MHz-4000MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 7	ECI 1755340	3560	1	22.88	23.50	1.153	62.9	1.006	-0.07	0.407	0.472
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 1755340	3560	1	22.88	23.50	1.153	62.9	1.006	-0.14	0.526	0.610
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 1755830	3609	1	22.66	23.50	1.213	62.9	1.006	0.13	0.469	0.572
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 1756150	3641	1	22.78	23.50	1.180	62.9	1.006	-0.07	0.535	0.635
74	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 1756640	3690	1	22.75	23.50	1.189	62.9	1.006	-0.15	0.581	0.695
	LTE Band 48 NSA	20M	QPSK	1	0	-	Back	15mm	Ant 7	ECI 1856640	3690	1	19.75	20.50	1.189	62.9	1.006	0.09	0.242	0.289
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 7	ECI 1755340	3560	1	22.85	23.50	1.161	62.9	1.006	-0.12	0.389	0.455
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 1755340	3560	1	22.85	23.50	1.161	62.9	1.006	0.03	0.519	0.606
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 1755830	3609	1	22.64	23.50	1.219	62.9	1.006	-0.01	0.436	0.535
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 1756150	3641	1	22.72	23.50	1.197	62.9	1.006	-0.11	0.511	0.615
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 7	ECI 1756640	3690	1	22.72	23.50	1.197	62.9	1.006	0.12	0.542	0.653
	LTE Band 48	20M	QPSK	100	0	-	Back	15mm	Ant 7	ECI 1755340	3560	1	22.83	23.50	1.167	62.9	1.006	-0.08	0.489	0.574
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 5	ECI 1755340	3560	1	21.50	22.00	1.122	62.9	1.006	-0.01	0.176	0.199
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 5	ECI 1755340	3560	1	21.50	22.00	1.122	62.9	1.006	0.06	0.406	0.458
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 5	ECI 1755340	3560	1	21.47	22.00	1.130	62.9	1.006	0.01	0.168	0.191
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 5	ECI 1755340	3560	1	21.47	22.00	1.130	62.9	1.006	0.06	0.384	0.436



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 1	ECI 17	55340	3560	1	22.51	23.00	1.119	62.9	1.006	0.08	0.128	0.144
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 17	55340	3560	1	22.51	23.00	1.119	62.9	1.006	-0.04	0.472	0.532
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 1	ECI 17	55340	3560	1	21.56	22.00	1.107	62.9	1.006	-0.01	0.106	0.118
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 1	ECI 17	55340	3560	1	21.56	22.00	1.107	62.9	1.006	-0.05	0.394	0.439
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 3	ECI 17	55340	3560	1	22.58	23.00	1.102	62.9	1.006	0.12	0.208	0.230
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 3	ECI 17	55340	3560	1	22.58	23.00	1.102	62.9	1.006	-0.04	0.337	0.373
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 3	ECI 17	55340	3560	1	21.57	22.00	1.104	62.9	1.006	-0.02	0.172	0.191
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 3	ECI 17	55340	3560	1	21.57	22.00	1.104	62.9	1.006	-0.08	0.274	0.304
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 7	ECI 17	633332	3499.98	1	20.33	21.00	1.167	-	-	0.14	0.216	0.252
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 17	633332	3499.98	1	20.33	21.00	1.167	-	-	-0.12	0.397	0.463
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 7	ECI 17	633332	3499.98	1	20.30	21.00	1.175	-	-	0.12	0.215	0.253
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 7	ECI 17	633332	3499.98	1	20.30	21.00	1.175	-	-	-0.09	0.372	0.437
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 7	ECI 17	656000	3840	1	20.14	21.00	1.219	-	-	0.08	0.240	0.293
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 17	656000	3840	1	20.14	21.00	1.219	-	-	-0.06	0.595	0.725
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 17	656000	3840	1	16.15	17.00	1.216	-	-	-0.03	0.240	0.292
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 7	ECI 18	656000	3840	1	14.20	15.00	1.202	-	-	0.01	0.169	0.203
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 7	ECI 17	656000	3840	1	20.18	21.00	1.208	-	-	-0.06	0.228	0.275
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 7	ECI 17	656000	3840	1	20.18	21.00	1.208	-	-	0.01	0.564	0.681
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 7	ECI 17	656000	3840	1	20.17	21.00	1.211	-	-	-0.14	0.551	0.667
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 5	ECI 17	633332	3499.98	1	20.09	20.50	1.099	-	-	0.02	0.109	0.120
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 5	ECI 17	633332	3499.98	1	20.09	20.50	1.099	-	-	-0.09	0.224	0.246
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	ECI 17	633332	3499.98	1	20.05	20.50	1.109	-	-	0.02	0.094	0.104
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	ECI 17	633332	3499.98	1	20.05	20.50	1.109	-	-	0.01	0.208	0.231
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 5	ECI 17	656000	3840	1	19.76	20.50	1.186	-	-	-0.03	0.136	0.161
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 5	ECI 17	656000	3840	1	19.76	20.50	1.186	-	-	-0.04	0.398	0.472
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 5	ECI 18	656000	3840	1	13.70	14.50	1.202	-	-	0.08	0.104	0.125
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 5	ECI 17	656000	3840	1	19.68	20.50	1.208	-	-	-0.07	0.124	0.150
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 5	ECI 17	656000	3840	1	19.68	20.50	1.208	-	-	-0.09	0.382	0.461
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 5	ECI 17	656000	3840	1	19.59	20.50	1.233	-	-	-0.09	0.377	0.465
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 1	ECI 17	633332	3499.98	1	21.37	22.00	1.156	-	-	0.13	0.395	0.457
75	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	ECI 17	633332	3499.98	1	21.37	22.00	1.156	-	-	-0.01	0.945	1.093
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	ECI 17	633332	3499.98	2	21.37	22.00	1.156	-	-	0.08	0.897	1.037
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	ECI 17	633332	3499.98	1	17.45	18.00	1.135	-	-	0.12	0.364	0.413
	FR1 n77 Par27Q SA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	ECI 18	633332	3499.98	1	20.88	21.50	1.153	-	-	0.04	0.812	0.937
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	ECI 18	633332	3499.98	1	15.40	16.00	1.148	-	-	0.08	0.229	0.263
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 1	ECI 17	633332	3499.98	1	21.28	22.00	1.180	-	-	0.02	0.378	0.446
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 1	ECI 17	633332	3499.98	1	21.28	22.00	1.180	-	-	-0.14	0.897	1.059
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 1	ECI 17	633332	3499.98	1	21.18	22.00	1.208	-	-	-0.12	0.866	1.046
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 1	ECI 17	656000	3840	1	21.22	22.00	1.197	-	-	0.03	0.302	0.361
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 1	ECI 17	656000	3840	1	21.22	22.00	1.197	-	-	0.07	0.628	0.752
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 1	ECI 17	656000	3840	1	21.15	22.00	1.216	-	-	-0.03	0.287	0.349
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 1	ECI 17	656000	3840	1	21.15	22.00	1.216	-	-	0.01	0.597	0.726
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Back	15mm	Ant 1	ECI 17	656000	3840	1	20.95	22.00	1.274	-	-	-0.08	0.587	0.748
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	ECI 17	633332	3499.98	1	20.65	21.50	1.216	-	-	0.04	0.304	0.370
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	ECI 17	633332	3499.98	1	20.65	21.50	1.216	-	-	-0.08	0.261	0.317
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	ECI 17	633332	3499.98	1	20.63	21.50	1.222	-	-	0.07	0.299	0.365
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	ECI 17	633332	3499.98	1	20.63	21.50	1.222	-	-	-0.13	0.254	0.310
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	15mm	Ant 3	ECI 17	656000	3840	1	20.83	21.50	1.167	-	-	0.12	0.356	0.415
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	15mm	Ant 3	ECI 17	656000	3840	1	20.83	21.50	1.167	-	-	0.11	0.270	0.315
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	15mm	Ant 3	ECI 17	656000	3840	1	20.80	21.50	1.175	-	-	0.14	0.337	0.396
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	15mm	Ant 3	ECI 17	656000	3840	1	20.80	21.50	1.175	-	-	-0.14	0.262	0.308
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Front	15mm	Ant 3	ECI 17	656000	3840	1	20.76	21.50	1.186	-	-	-0.08	0.303	0.359



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WLAN2.4GHz/BT																	
	Bluetooth	DH5 1Mbps	Front	15mm	Ant 6	Full	39	2441	1	17.25	18.50	1.334	76.53	1.307	-0.01	0.034	0.059
76	Bluetooth	DH5 1Mbps	Back	15mm	Ant 6	Full	39	2441	1	17.25	18.50	1.334	76.53	1.307	0.11	0.036	0.062
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 6	Full	6	2437	1	18.27	20.00	1.489	99.53	1.005	-0.03	0.070	0.105
77	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 6	Full	6	2437	1	18.27	20.00	1.489	99.53	1.005	-0.04	0.082	0.123
WLAN5GHz																	
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 6	Full	54	5270	1	17.72	19.00	1.343	93.1	1.074	-0.1	0.216	0.311
78	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	Full	54	5270	1	17.72	19.00	1.343	93.1	1.074	0.02	0.290	0.418
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 6	Full	110	5550	1	17.92	19.00	1.282	93.1	1.074	0.12	0.162	0.223
79	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	Full	110	5550	1	17.92	19.00	1.282	93.1	1.074	-0.06	0.542	0.746
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	106	5530	1	15.53	17.00	1.403	87.88	1.138	0.03	0.119	0.190
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	106	5530	1	15.53	17.00	1.403	87.88	1.138	0.01	0.342	0.546
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	15mm	Ant 6	Full	151	5755	1	17.12	19.00	1.542	93.1	1.074	0.01	0.160	0.265
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	Full	151	5755	1	17.12	19.00	1.542	93.1	1.074	0.05	0.557	0.922
80	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	Full	159	5795	1	17.10	19.00	1.549	93.1	1.074	-0.1	0.586	0.975
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	Full	159	5795	2	17.10	19.00	1.549	93.1	1.074	0.09	0.511	0.850
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	155	5775	1	14.97	16.50	1.422	87.88	1.138	0.06	0.106	0.172
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	155	5775	1	14.97	16.50	1.422	87.88	1.138	0.01	0.342	0.554



15.4 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)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 4	ECI 15	1413	1732.6	1	21.37	22.50	1.297	-	-	-0.12	1.810	2.348
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 4	ECI 15	1312	1712.4	1	21.35	22.50	1.303	-	-	-0.04	1.830	2.385
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 4	ECI 15	1513	1752.6	1	21.30	22.50	1.318	-	-	0.14	1.770	2.333
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 4	ECI 15	1413	1732.6	1	21.37	22.50	1.297	-	-	0.12	2.000	2.594
81	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 4	ECI 15	1312	1712.4	1	21.35	22.50	1.303	-	-	-0.07	2.050	2.671
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 4	ECI 15	1513	1752.6	1	21.30	22.50	1.318	-	-	0.13	1.940	2.557
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	18mm	Ant 4	Full	1413	1732.6	1	23.85	25.00	1.303	-	-	0.02	0.268	0.349
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	18mm	Ant 4	Full	1413	1732.6	1	23.85	25.00	1.303	-	-	0.05	0.288	0.375
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	13mm	Ant 4	ECI 15	1413	1732.6	1	21.37	22.50	1.297	-	-	0.09	0.267	0.346
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 15	132322	1745	1	20.82	22.00	1.312	-	-	0.14	1.620	2.126
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 15	132072	1720	1	20.75	22.00	1.334	-	-	0.09	1.690	2.254
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 15	132572	1770	1	20.72	22.00	1.343	-	-	0.05	1.580	2.122
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 15	132322	1745	1	20.82	22.00	1.312	-	-	0.09	1.820	2.388
82	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 15	132072	1720	1	20.75	22.00	1.334	-	-	0.09	1.910	2.547
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 15	132572	1770	1	20.72	22.00	1.343	-	-	-0.1	1.730	2.323
	LTE Band 66	20M	QPSK	1	0	-	Back	18mm	Ant 4	Full	132322	1745	1	23.38	24.50	1.294	-	-	0.08	0.228	0.295
	LTE Band 66	20M	QPSK	1	0	-	Top Side	18mm	Ant 4	Full	132322	1745	1	23.38	24.50	1.294	-	-	0.09	0.253	0.327
	LTE Band 66	20M	QPSK	1	0	-	Back	13mm	Ant 4	ECI 15	132322	1745	1	20.82	22.00	1.312	-	-	0.05	0.231	0.303
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 15	132322	1745	1	20.76	22.00	1.330	-	-	-0.15	1.570	2.089
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 15	132072	1720	1	20.73	22.00	1.340	-	-	-0.09	1.660	2.224
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 15	132572	1770	1	20.70	22.00	1.349	-	-	-0.07	1.520	2.050
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 15	132322	1745	1	20.76	22.00	1.330	-	-	-0.02	1.750	2.328
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 15	132072	1720	1	20.73	22.00	1.340	-	-	0.04	1.900	2.545
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 15	132572	1770	1	20.70	22.00	1.349	-	-	0.13	1.680	2.266
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 4	ECI 15	132322	1745	1	20.72	22.00	1.343	-	-	0.01	1.520	2.041
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	ECI 15	132322	1745	1	20.72	22.00	1.343	-	-	0.01	1.710	2.296
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 15	349000	1745	1	20.95	22.50	1.429	-	-	0.03	1.910	2.729
83	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECI 15	349000	1745	1	20.95	22.50	1.429	-	-	0.09	2.180	3.115
	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECI 15	349000	1745	2	20.95	22.50	1.429	-	-	0.05	2.010	2.872
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 15	349000	1745	1	15.98	17.50	1.419	-	-	0.07	0.720	1.022
	FR1 n66_NSA	30M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 16	349000	1745	1	14.47	16.00	1.422	-	-	-0.12	0.427	0.607
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	18mm	Ant 4	Full	349000	1745	1	22.93	24.50	1.435	-	-	0.12	0.234	0.336
	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	18mm	Ant 4	Full	349000	1745	1	22.93	24.50	1.435	-	-	0.05	0.253	0.363
	FR1 n66	30M	QPSK	1	1	DFT-15	Back	13mm	Ant 4	ECI 15	349000	1745	1	20.95	22.50	1.429	-	-	0.08	0.262	0.374
	FR1 n66	30M	QPSK	80	40	DFT-15	Back	0mm	Ant 4	ECI 15	349000	1745	1	20.93	22.50	1.435	-	-	-0.11	1.880	2.699
	FR1 n66	30M	QPSK	80	40	DFT-15	Top Side	0mm	Ant 4	ECI 15	349000	1745	1	20.93	22.50	1.435	-	-	0.03	2.110	3.029
	FR1 n66	30M	QPSK	160	0	DFT-15	Back	0mm	Ant 4	ECI 15	349000	1745	1	20.90	22.50	1.445	-	-	0.06	1.810	2.616
	FR1 n66	30M	QPSK	160	0	DFT-15	Top Side	0mm	Ant 4	ECI 15	349000	1745	1	20.90	22.50	1.445	-	-	0.05	1.990	2.876
1900MHz																					
84	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 4	ECI 15	810	1909.8	1	24.66	25.50	1.213	-	-	0.03	2.410	2.924
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 4	ECI 15	512	1850.2	1	24.46	25.50	1.271	-	-	-0.01	2.250	2.859
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 4	ECI 15	661	1880	1	24.58	25.50	1.236	-	-	0.11	2.380	2.942
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	0mm	Ant 4	ECI 15	810	1909.8	1	24.66	25.50	1.213	-	-	0.03	2.170	2.633
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	0mm	Ant 4	ECI 15	512	1850.2	1	24.46	25.50	1.271	-	-	0.01	1.980	2.516
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	0mm	Ant 4	ECI 15	661	1880	1	24.58	25.50	1.236	-	-	-0.05	2.060	2.546
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	18mm	Ant 4	Full	810	1909.8	1	25.37	26.50	1.297	-	-	0.02	0.230	0.298
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	18mm	Ant 4	Full	810	1909.8	1	25.37	26.50	1.297	-	-	0.07	0.301	0.390
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	13mm	Ant 4	ECI 15	810	1909.8	1	24.66	25.50	1.213	-	-	0.04	0.337	0.409
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 4	ECI 15	9400	1880	1	20.58	21.50	1.236	-	-	-0.15	1.600	1.978
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 4	ECI 15	9400	1880	1	20.58	21.50	1.236	-	-	-0.06	1.970	2.435



FCC SAR Test Report

Report No. : FA4N1331

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	0mm	Ant 4	ECI 15	9400	1880	1	20.58	21.50	1.236	-	-	0.07	1.580	1.953
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 4	ECI 15	9262	1852.4	1	20.53	21.50	1.250	-	-	-0.02	1.780	2.225
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 4	ECI 15	9538	1907.6	1	20.50	21.50	1.259	-	-	0.13	2.160	2.719
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	11mm	Ant 4	Full	9400	1880	1	24.05	25.00	1.245	-	-	-0.06	0.439	0.546
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	18mm	Ant 4	Full	9400	1880	1	24.05	25.00	1.245	-	-	-0.02	0.435	0.541
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	18mm	Ant 4	Full	9400	1880	1	24.05	25.00	1.245	-	-	-0.08	0.537	0.668
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	6mm	Ant 4	ECI 15	9400	1880	1	20.58	21.50	1.236	-	-	-0.06	0.438	0.541
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	13mm	Ant 4	ECI 15	9400	1880	1	20.58	21.50	1.236	-	-	-0.02	0.307	0.379
85	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 13/15	9400	1880	1	22.15	23.00	1.216	-	-	0.08	2.540	3.089
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 1	ECI 13/15	9400	1880	1	22.15	23.00	1.216	-	-	0.1	1.610	1.958
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 13/15	9262	1852.4	1	22.05	23.00	1.245	-	-	0.07	1.680	2.091
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 13/15	9538	1907.6	1	22.12	23.00	1.225	-	-	0.05	1.510	1.849
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 13/15	9262	1852.4	1	22.05	23.00	1.245	-	-	0.12	2.410	2.999
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 13/15	9538	1907.6	1	22.12	23.00	1.225	-	-	-0.15	2.240	2.743
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	13mm	Ant 1	Full	9400	1880	1	24.08	25.00	1.236	-	-	-0.15	0.758	0.937
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	13mm	Ant 1	Full	9400	1880	1	24.08	25.00	1.236	-	-	0.02	0.091	0.112
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	7mm	Ant 1	ECI 13/15	9400	1880	1	22.15	23.00	1.216	-	-	0.02	0.075	0.091
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	ECI 17	9400	1880	1	21.64	22.50	1.219	-	-	0.12	2.250	2.743
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	ECI 17	9262	1852.4	1	21.62	22.50	1.225	-	-	0.13	2.410	2.951
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	ECI 17	9538	1907.6	1	21.58	22.50	1.236	-	-	-0.07	2.120	2.620
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 15	18900	1880	1	21.00	22.00	1.259	-	-	0.05	1.890	2.379
	LTE Band 2	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 15	18900	1880	1	21.00	22.00	1.259	-	-	-0.1	1.470	1.851
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 15	18700	1860	1	20.92	22.00	1.282	-	-	-0.01	1.700	2.180
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 15	19100	1900	1	20.95	22.00	1.274	-	-	-0.15	2.010	2.560
	LTE Band 2 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 16	19100	1900	1	18.31	19.50	1.315	-	-	0.07	1.120	1.473
	LTE Band 2	20M	QPSK	1	0	-	Back	18mm	Ant 4	Full	18900	1880	1	23.43	24.50	1.279	-	-	0.06	0.437	0.559
	LTE Band 2	20M	QPSK	1	0	-	Top Side	18mm	Ant 4	Full	18900	1880	1	23.43	24.50	1.279	-	-	0.07	0.423	0.541
	LTE Band 2	20M	QPSK	1	0	-	Back	13mm	Ant 4	ECI 15	18900	1880	1	21.00	22.00	1.259	-	-	0.05	0.339	0.427
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 15	18900	1880	1	20.91	22.00	1.285	-	-	-0.03	1.830	2.352
	LTE Band 2	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 15	18900	1880	1	20.91	22.00	1.285	-	-	0.14	1.410	1.812
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 15	18700	1860	1	20.85	22.00	1.303	-	-	-0.08	1.600	2.085
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 15	19100	1900	1	20.88	22.00	1.294	-	-	-0.14	1.940	2.511
	LTE Band 2	20M	QPSK	100	0	-	Back	0mm	Ant 4	ECI 15	18900	1880	1	20.91	22.00	1.285	-	-	-0.12	1.790	2.301
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	18900	1880	1	21.86	23.00	1.300	-	-	-0.08	2.190	2.847
	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	18700	1860	1	21.83	23.00	1.309	-	-	0.04	2.150	2.815
86	LTE Band 2	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	19100	1900	1	21.80	23.00	1.318	-	-	0.11	2.270	2.992
	LTE Band 2 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	19100	1900	1	20.83	22.00	1.309	-	-	0.05	1.860	2.435
	LTE Band 2 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 14/16	19100	1900	1	18.42	19.50	1.282	-	-	0.02	1.020	1.308
	LTE Band 2	20M	QPSK	1	0	-	Back	13mm	Ant 1	Full	18900	1880	1	23.43	24.50	1.279	-	-	0.15	0.588	0.752
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	18900	1880	1	21.84	23.00	1.306	-	-	-0.12	2.110	2.756
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	18700	1860	1	21.79	23.00	1.321	-	-	0	2.090	2.762
	LTE Band 2	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	19100	1900	1	21.78	23.00	1.324	-	-	-0.12	2.200	2.914
	LTE Band 2	20M	QPSK	100	0	-	Back	0mm	Ant 1	ECI 13/15	18900	1880	1	21.80	23.00	1.318	-	-	0.14	2.050	2.702
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 15	376000	1880	1	21.69	23.00	1.352	-	-	0.05	2.040	2.758
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECI 15	376000	1880	1	21.69	23.00	1.352	-	-	0.02	1.510	2.042
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECI 15	372000	1860	1	21.64	23.00	1.368	-	-	0.01	1.460	1.997
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECI 15	380000	1900	1	21.60	23.00	1.380	-	-	0.07	1.590	2.195
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 15	372000	1860	1	21.64	23.00	1.368	-	-	0.05	1.910	2.612
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 15	380000	1900	1	21.60	23.00	1.380	-	-	-0.14	2.110	2.913
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 15	380000	1900	1	17.10	18.50	1.380	-	-	0.05	0.762	1.052
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 16	380000	1900	1	15.10	16.50	1.380	-	-	0.02	0.493	0.681
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	18mm	Ant 4	Full	376000	1880	1	23.14	24.50	1.368	-	-	0.17	0.300	0.410
	FR1 n2	20M	QPSK	1	1	DFT-15	Top Side	18mm	Ant 4	Full	376000	1880	1	23.14	24.50	1.368	-	-	0.02	0.352	0.481
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	13mm	Ant 4	ECI 15	376000	1880	1	21.69	23.00	1.352	-	-	0.06	0.361	0.488
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 4	ECI 15	376000	1880	1	21.65	23.00	1.365	-	-	-0.01	1.910	2.606



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n2	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 4	ECI 15	376000	1880	1	21.65	23.00	1.365	-	-	0.01	1.420	1.938
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 4	ECI 15	372000	1860	1	21.62	23.00	1.374	-	-	0.01	1.870	2.569
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 4	ECI 15	380000	1900	1	21.58	23.00	1.387	-	-	-0.02	2.080	2.884
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	0mm	Ant 4	ECI 15	376000	1880	1	21.63	23.00	1.371	-	-	-0.06	1.980	2.714
	FR1 n2	20M	QPSK	100	0	DFT-15	Top Side	0mm	Ant 4	ECI 15	376000	1880	1	21.63	23.00	1.371	-	-	-0.14	1.450	1.988
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI 13/15	376000	1880	1	21.68	23.00	1.355	-	-	0.06	1.970	2.670
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI 13/15	372000	1860	1	21.59	23.00	1.384	-	-	0.05	2.070	2.864
87	FR1 n2	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI 13/15	380000	1900	1	21.60	23.00	1.380	-	-	0.1	2.130	2.940
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI 13/15	380000	1900	1	17.15	18.50	1.365	-	-	0.01	0.786	1.073
	FR1 n2_NSA	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI 14/16	380000	1900	1	15.15	16.50	1.365	-	-	-0.14	0.487	0.665
	FR1 n2	20M	QPSK	1	1	DFT-15	Back	13mm	Ant 1	Full	376000	1880	1	23.15	24.50	1.365	-	-	0.06	0.276	0.377
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	ECI 13/15	376000	1880	1	21.66	23.00	1.361	-	-	-0.1	1.950	2.655
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	ECI 13/15	372000	1860	1	21.58	23.00	1.387	-	-	-0.04	1.970	2.732
	FR1 n2	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	ECI 13/15	380000	1900	1	21.58	23.00	1.387	-	-	0.08	2.020	2.801
	FR1 n2	20M	QPSK	100	0	DFT-15	Back	0mm	Ant 1	ECI 13/15	376000	1880	1	21.62	23.00	1.374	-	-	0	1.940	2.666
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 15	21100	2535	1	21.60	22.50	1.230	-	-	0.01	2.160	2.657
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 15	20850	2510	1	21.55	22.50	1.245	-	-	0.01	1.990	2.477
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 15	21350	2560	1	21.52	22.50	1.253	-	-	0.12	2.280	2.857
	LTE Band 7	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 15	21100	2535	1	21.60	22.50	1.230	-	-	-0.12	1.510	1.858
	LTE Band 7 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 15	21350	2560	1	20.64	21.50	1.219	-	-	0.05	1.860	2.267
	LTE Band 7 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 16	21350	2560	1	18.56	19.50	1.242	-	-	0.06	1.190	1.478
	LTE Band 7	20M	QPSK	1	0	-	Back	18mm	Ant 4	Full	21100	2535	1	23.67	24.50	1.211	-	-	-0.06	0.151	0.183
	LTE Band 7	20M	QPSK	1	0	-	Top Side	18mm	Ant 4	Full	21100	2535	1	23.67	24.50	1.211	-	-	-0.11	0.167	0.202
	LTE Band 7	20M	QPSK	1	0	-	Back	13mm	Ant 4	ECI 15	21100	2535	1	21.60	22.50	1.230	-	-	0.05	0.169	0.208
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 15	21100	2535	1	21.55	22.50	1.245	-	-	-0.02	2.110	2.626
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 15	20850	2510	1	21.48	22.50	1.265	-	-	0.02	1.920	2.428
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 15	21350	2560	1	21.45	22.50	1.274	-	-	-0.15	2.200	2.802
	LTE Band 7	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 15	21100	2535	1	21.55	22.50	1.245	-	-	-0.06	1.460	1.817
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 4	ECI 15	21100	2535	1	21.48	22.50	1.265	-	-	0.04	2.150	2.719
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 13/15	21100	2535	1	22.14	23.50	1.368	-	-	0.1	1.160	1.587
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	21100	2535	1	22.14	23.50	1.368	-	-	-0.08	1.960	2.681
88	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	20850	2510	1	22.10	23.50	1.380	-	-	0.02	2.240	3.092
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	21350	2560	1	22.08	23.50	1.387	-	-	0	2.200	3.051
	LTE Band 7 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	20850	2510	1	20.47	22.00	1.422	-	-	0.08	1.660	2.361
	LTE Band 7 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 14/16	20850	2510	1	18.49	20.00	1.416	-	-	0.07	1.000	1.416
	LTE Band 7	20M	QPSK	1	0	-	Front	6mm	Ant 1	Full	21100	2535	1	23.12	24.50	1.374	-	-	0.02	0.622	0.855
	LTE Band 7	20M	QPSK	1	0	-	Back	13mm	Ant 1	Full	21100	2535	1	23.12	24.50	1.374	-	-	0.08	0.265	0.364
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 13/15	21100	2535	1	22.05	23.50	1.396	-	-	0.11	1.100	1.536
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	21100	2535	1	22.05	23.50	1.396	-	-	0.04	1.890	2.639
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	20850	2510	1	21.99	23.50	1.416	-	-	0.12	2.120	3.001
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	21350	2560	1	22.00	23.50	1.413	-	-	-0.12	2.100	2.966
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 1	ECI 13/15	21100	2535	1	22.03	23.50	1.403	-	-	0.1	1.550	2.174
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	21100	2535	1	21.38	22.00	1.153	-	-	0.15	2.250	2.595
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	20850	2510	1	21.30	22.00	1.175	-	-	0.05	2.010	2.362
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	21350	2560	1	21.29	22.00	1.178	-	-	-0.03	2.450	2.885
	LTE Band 7 NSA	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	21350	2560	1	20.10	21.00	1.230	-	-	0.05	1.960	2.411
	LTE Band 7 NSA	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 18	21350	2560	1	17.55	18.50	1.245	-	-	0.01	1.130	1.406
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	ECI 17	21100	2535	1	21.35	22.00	1.161	-	-	-0.05	2.180	2.532
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	ECI 17	20850	2510	1	21.29	22.00	1.178	-	-	-0.09	1.940	2.285
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	ECI 17	21350	2560	1	21.27	22.00	1.183	-	-	0.07	2.260	2.674
	LTE Band 7	20M	QPSK	100	0	-	Left Side	0mm	Ant 2	ECI 17	21100	2535	1	21.31	22.00	1.172	-	-	0.11	2.110	2.473
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	40620	2593	1	23.55	24.50	1.245	62.9	1.006	0.07	1.850	2.316
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	39750	2506	1	23.18	24.50	1.355	62.9	1.006	0.11	1.830	2.495



FCC SAR Test Report

Report No. : FA4N1331

	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	40185	2549.5	1	23.00	24.50	1.413	62.9	1.006	-0.15	1.890	2.686
89	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	41055	2636.5	1	23.26	24.50	1.330	62.9	1.006	0.05	2.020	2.704
	LTE Band 41C	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	41055+40857	2636.5+2616.7	1	23.13	24.50	1.371	62.9	1.006	0.01	1.890	2.607
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	41490	2680	1	23.48	24.50	1.265	62.9	1.006	0.15	1.890	2.405
	LTE Band 41 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	41055	2636.5	1	22.08	23.50	1.387	62.9	1.006	0.05	1.680	2.344
	LTE Band 41 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 14/16	41055	2636.5	1	20.01	21.50	1.409	62.9	1.006	0.07	1.010	1.432
	LTE Band 41	20M	QPSK	1	0	-	Back	13mm	Ant 1	Full	40620	2593	1	23.55	24.50	1.245	62.9	1.006	0.06	0.171	0.214
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	40620	2593	1	22.48	23.50	1.265	62.9	1.006	0.08	1.480	1.883
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	39750	2506	1	22.12	23.50	1.374	62.9	1.006	0.05	1.420	1.963
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	40185	2549.5	1	22.10	23.50	1.380	62.9	1.006	-0.04	1.640	2.277
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	41055	2636.5	1	22.22	23.50	1.343	62.9	1.006	-0.06	1.550	2.094
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	41490	2680	1	22.43	23.50	1.279	62.9	1.006	-0.02	1.520	1.956
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 1	ECI 13/15	40620	2593	1	22.41	23.50	1.285	62.9	1.006	0.09	1.450	1.875
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	40620	2593	1	23.27	24.00	1.183	62.9	1.006	-0.02	2.100	2.499
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	39750	2506	1	23.25	24.00	1.189	62.9	1.006	0.03	1.860	2.224
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	40185	2549.5	1	23.23	24.00	1.194	62.9	1.006	-0.05	2.100	2.522
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	41055	2636.5	1	23.20	24.00	1.202	62.9	1.006	0.05	2.160	2.612
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	41055+40857	2636.5+2616.7	1	22.78	24.00	1.324	62.9	1.006	0.02	1.870	2.491
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	41490	2680	1	23.19	24.00	1.205	62.9	1.006	0.09	1.940	2.352
	LTE Band 41 NSA	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	41055	2636.5	1	22.23	23.00	1.194	62.9	1.006	0.05	1.810	2.174
	LTE Band 41 NSA	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 18	41055	2636.5	1	20.24	21.00	1.191	62.9	1.006	0.01	1.080	1.294
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	ECI 17	40620	2593	1	22.77	23.50	1.183	62.9	1.006	-0.04	1.830	2.178
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	ECI 17	39750	2506	1	22.70	23.50	1.202	62.9	1.006	-0.08	1.500	1.814
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	ECI 17	40185	2549.5	1	22.74	23.50	1.191	62.9	1.006	-0.04	1.710	2.049
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	ECI 17	41055	2636.5	1	22.69	23.50	1.205	62.9	1.006	0.09	1.720	2.085
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	ECI 17	41490	2680	1	22.68	23.50	1.208	62.9	1.006	0.05	1.540	1.871
	LTE Band 41	20M	QPSK	100	0	-	Left Side	0mm	Ant 2	ECI 17	40620	2593	1	22.75	23.50	1.189	62.9	1.006	-0.04	1.840	2.200
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 15	507000	2535	1	21.08	22.50	1.387	-	-	-0.03	2.020	2.801
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 15	502000	2510	1	21.04	22.50	1.400	-	-	-0.1	2.060	2.883
90	FR1 n7	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 15	512000	2560	1	21.00	22.50	1.413	-	-	0.07	2.150	3.037
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECI 15	507000	2535	1	21.08	22.50	1.387	-	-	0.05	1.480	2.052
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECI 15	502000	2510	1	21.04	22.50	1.400	-	-	-0.07	1.450	2.029
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECI 15	512000	2560	1	21.00	22.50	1.413	-	-	-0.11	1.670	2.359
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 15	512000	2560	1	16.52	18.00	1.406	-	-	0.05	0.763	1.073
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 4	ECI 16	512000	2560	1	14.47	16.00	1.422	-	-	0.02	0.495	0.704
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	18mm	Ant 4	Full	507000	2535	1	23.05	24.50	1.396	-	-	0.01	0.140	0.195
	FR1 n7	20M	QPSK	1	1	DFT-15	Top Side	18mm	Ant 4	Full	507000	2535	1	23.05	24.50	1.396	-	-	0.12	0.159	0.222
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	13mm	Ant 4	ECI 15	507000	2535	1	21.08	22.50	1.387	-	-	0.05	0.157	0.218
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 4	ECI 15	507000	2535	1	21.06	22.50	1.393	-	-	0.15	1.930	2.689
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 4	ECI 15	502000	2510	1	21.00	22.50	1.413	-	-	0.14	1.920	2.712
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 4	ECI 15	512000	2560	1	20.99	22.50	1.416	-	-	0.06	2.040	2.888
	FR1 n7	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 4	ECI 15	507000	2535	1	21.06	22.50	1.393	-	-	-0.08	1.460	2.034
	FR1 n7	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 4	ECI 15	502000	2510	1	21.00	22.50	1.413	-	-	-0.03	1.380	1.949
	FR1 n7	20M	QPSK	50	28	DFT-15	Top Side	0mm	Ant 4	ECI 15	512000	2560	1	20.99	22.50	1.416	-	-	0.06	1.570	2.223
	FR1 n7	20M	QPSK	100	0	DFT-15	Back	0mm	Ant 4	ECI 15	512000	2560	1	21.02	22.50	1.406	-	-	0.09	1.900	2.671
	FR1 n7	20M	QPSK	100	0	DFT-15	Top Side	0mm	Ant 4	ECI 15	512000	2560	1	21.02	22.50	1.406	-	-	0.13	1.380	1.940
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	ECI 13/15	507000	2535	1	21.15	22.50	1.365	-	-	-0.05	1.490	2.033
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	ECI 13/15	502000	2510	1	21.12	22.50	1.374	-	-	-0.07	1.560	2.144
	FR1 n7	20M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	ECI 13/15	512000	2560	1	21.10	22.50	1.380	-	-	0.1	1.460	2.015
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI 13/15	507000	2535	1	21.15	22.50	1.365	-	-	0.06	2.090	2.852
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI 13/15	502000	2510	1	21.12	22.50	1.374	-	-	-0.1	2.140	2.940
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI 13/15	512000	2560	1	21.10	22.50	1.380	-	-	0.06	2.110	2.913
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI 13/15	502000	2510	1	16.60	18.00	1.380	-	-	-0.07	0.768	1.060
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	ECI 14/16	502000	2510	1	14.55	16.00	1.396	-	-	0.11	0.499	0.697



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n7	20M	QPSK	1	1	DFT-15	Front	6mm	Ant 1	Full	507000	2535	1	23.12	24.50	1.374	-	-	-0.08	0.987	1.356
	FR1 n7	20M	QPSK	1	1	DFT-15	Back	13mm	Ant 1	Full	507000	2535	1	23.12	24.50	1.374	-	-	-0.17	0.462	0.635
	FR1 n7	20M	QPSK	50	28	DFT-15	Front	0mm	Ant 1	ECI 13/15	507000	2535	1	21.13	22.50	1.371	-	-	0.14	1.410	1.933
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	ECI 13/15	507000	2535	1	21.13	22.50	1.371	-	-	0.03	1.980	2.714
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	ECI 13/15	502000	2510	1	21.09	22.50	1.384	-	-	-0.15	2.070	2.864
	FR1 n7	20M	QPSK	50	28	DFT-15	Back	0mm	Ant 1	ECI 13/15	512000	2560	1	21.08	22.50	1.387	-	-	-0.14	2.010	2.787
	FR1 n7	20M	QPSK	100	0	DFT-15	Front	0mm	Ant 1	ECI 13/15	507000	2535	1	21.12	22.50	1.374	-	-	0.1	1.370	1.882
	FR1 n7	20M	QPSK	100	0	DFT-15	Back	0mm	Ant 1	ECI 13/15	507000	2535	1	21.12	22.50	1.374	-	-	0.04	1.910	2.624
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 2	ECI 17	507000	2535	1	20.18	21.50	1.355	-	-	0.05	1.910	2.588
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 2	ECI 17	502000	2510	1	20.15	21.50	1.365	-	-	-0.13	1.850	2.524
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 2	ECI 17	512000	2560	1	20.12	21.50	1.374	-	-	-0.07	2.030	2.789
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 2	ECI 17	512000	2560	1	15.73	17.00	1.340	-	-	0.5	0.750	1.005
	FR1 n7_NSA	20M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 2	ECI 18	512000	2560	1	13.62	15.00	1.374	-	-	0.01	0.459	0.631
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 2	ECI 17	507000	2535	1	20.16	21.50	1.361	-	-	-0.03	1.890	2.573
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 2	ECI 17	502000	2510	1	20.13	21.50	1.371	-	-	-0.14	1.760	2.413
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Side	0mm	Ant 2	ECI 17	512000	2560	1	20.09	21.50	1.384	-	-	0.06	1.970	2.726
	FR1 n7	20M	QPSK	100	0	DFT-15	Left Side	0mm	Ant 2	ECI 17	507000	2535	1	20.15	21.50	1.365	-	-	0.08	1.850	2.524
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 4	ECI 15	518598	2592.99	1	20.82	22.50	1.472	-	-	-0.15	1.380	2.032
91	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	ECI 15	518598	2592.99	1	20.82	22.50	1.472	-	-	0.01	2.150	3.165
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	ECI 15	518598	2592.99	2	20.82	22.50	1.472	-	-	0.09	2.110	3.107
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	ECI 15	518598	2592.99	1	20.82	22.50	1.472	-	-	-0.12	1.510	2.223
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	ECI 15	518598	2592.99	1	15.85	17.50	1.462	-	-	0.05	0.712	1.041
	FR1 n41_SA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	ECI 16	518598	2592.99	1	18.88	20.50	1.452	-	-	0.08	1.350	1.960
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 4	ECI 16	518598	2592.99	1	13.79	15.50	1.482	-	-	0.17	0.277	0.410
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	ECI 16	518598	2592.99	1	13.79	15.50	1.482	-	-	0.06	0.425	0.630
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	11mm	Ant 4	Full	518598	2592.99	1	24.25	26.00	1.496	-	-	-0.13	0.383	0.573
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	18mm	Ant 4	Full	518598	2592.99	1	24.25	26.00	1.496	-	-	-0.05	0.215	0.322
	FR1 n41	100M	QPSK	1	1	DFT-30	Top Side	18mm	Ant 4	Full	518598	2592.99	1	24.25	26.00	1.496	-	-	0.03	0.250	0.374
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	6mm	Ant 4	ECI 15	518598	2592.99	1	20.82	22.50	1.472	-	-	-0.13	0.397	0.585
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	13mm	Ant 4	ECI 15	518598	2592.99	1	20.82	22.50	1.472	-	-	-0.05	0.173	0.255
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 4	ECI 15	518598	2592.99	1	20.78	22.50	1.486	-	-	-0.04	1.260	1.872
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 4	ECI 15	518598	2592.99	1	20.78	22.50	1.486	-	-	-0.15	2.090	3.106
	FR1 n41	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 4	ECI 15	518598	2592.99	1	20.78	22.50	1.486	-	-	0.11	1.440	2.140
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 4	ECI 15	518598	2592.99	1	20.72	22.50	1.507	-	-	0.05	1.300	1.959
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 4	ECI 15	518598	2592.99	1	20.72	22.50	1.507	-	-	0.03	2.050	3.089
	FR1 n41	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 4	ECI 15	518598	2592.99	1	20.72	22.50	1.507	-	-	0.15	1.470	2.215
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 1	ECI 13/15	518598	2592.99	1	20.29	22.00	1.483	-	-	0.03	1.360	2.016
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	ECI 13/15	518598	2592.99	1	20.29	22.00	1.483	-	-	-0.03	2.000	2.965
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	518598	2592.99	1	20.29	22.00	1.483	-	-	0.14	1.120	1.660
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	ECI 13/15	518598	2592.99	1	15.82	17.50	1.472	-	-	0.05	0.725	1.067
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	518598	2592.99	1	15.82	17.50	1.472	-	-	0.07	0.510	0.751
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	ECI 14/16	518598	2592.99	1	13.73	15.50	1.503	-	-	0.09	0.451	0.678
	FR1 n41	100M	QPSK	1	1	DFT-30	Front	6mm	Ant 1	Full	518598	2592.99	1	24.21	26.00	1.510	-	-	0.01	1.310	1.978
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	13mm	Ant 1	Full	518598	2592.99	1	24.21	26.00	1.510	-	-	0.07	0.727	1.098
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	13mm	Ant 1	Full	518598	2592.99	1	24.21	26.00	1.510	-	-	0.14	0.450	0.680
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	7mm	Ant 1	ECI 13/15	518598	2592.99	1	20.29	22.00	1.483	-	-	0.08	0.308	0.457
	FR1 n41	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 1	ECI 13/15	518598	2592.99	1	20.23	22.00	1.503	-	-	0.08	1.290	1.939
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	ECI 13/15	518598	2592.99	1	20.23	22.00	1.503	-	-	-0.14	1.940	2.916
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	518598	2592.99	1	20.23	22.00	1.503	-	-	-0.09	1.000	1.503
	FR1 n41	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 1	ECI 13/15	518598	2592.99	1	20.19	22.00	1.517	-	-	0.09	1.210	1.836
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 1	ECI 13/15	518598	2592.99	1	20.19	22.00	1.517	-	-	0.01	1.890	2.867
	FR1 n41	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	518598	2592.99		20.19	22.00	1.517	-	-	0.05	1.020	1.547
	FR1 n41	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	ECI 17	518598	2592.99	1	19.75	21.00	1.334	-	-	-0.02	2.140	2.854
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	ECI 17	518598	2592.99	1	19.75	21.00	1.334	-	-	-0.03	1.910	2.547
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	ECI 17	518598	2592.99	1	15.30	16.50	1.318	-	-	0.05	0.762	1.005
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	ECI 17	518598	2592.99	1	15.30	16.50	1.318	-	-	0.01	0.701	0.924



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 2	ECI 18	518598	2592.99	1	13.25	14.50	1.334	-	-	0.07	0.497	0.663
	FR1 n41_NSA	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 2	ECI 18	518598	2592.99	1	13.25	14.50	1.334	-	-	0.01	0.429	0.572
	FR1 n41	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 2	ECI 17	518598	2592.99	1	19.72	21.00	1.343	-	-	-0.07	2.020	2.712
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 2	ECI 17	518598	2592.99	1	19.72	21.00	1.343	-	-	0.13	1.780	2.390
	FR1 n41	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 2	ECI 17	518598	2592.99	1	19.67	21.00	1.358	-	-	0.04	2.050	2.785
	FR1 n41	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 2	ECI 17	518598	2592.99	1	19.67	21.00	1.358	-	-	0.14	1.850	2.513
3000MHz-4000MHz																					
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI 17	55340	3560	1	22.88	23.50	1.153	62.9	1.006	0.03	2.070	2.402
92	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI 17	55830	3609	1	22.66	23.50	1.213	62.9	1.006	0.02	2.290	2.795
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI 17	56150	3641	1	22.78	23.50	1.180	62.9	1.006	-0.1	2.170	2.577
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI 17	56640	3690	1	22.75	23.50	1.189	62.9	1.006	0.03	2.140	2.559
	LTE Band 48 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI 17	55830	3609	1	21.70	22.50	1.202	62.9	1.006	0.08	1.850	2.238
	LTE Band 48 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 7	ECI 18	55830	3609	1	19.62	20.50	1.225	62.9	1.006	0.15	1.140	1.404
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	ECI 17	55340	3560	1	22.85	23.50	1.161	62.9	1.006	-0.02	2.020	2.360
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	ECI 17	55830	3609	1	22.64	23.50	1.219	62.9	1.006	0.13	2.110	2.588
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	ECI 17	56150	3641	1	22.72	23.50	1.197	62.9	1.006	-0.11	2.080	2.504
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 7	ECI 17	56640	3690	1	22.72	23.50	1.197	62.9	1.006	0.05	2.050	2.468
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 7	ECI 17	55340	3560	1	22.83	23.50	1.167	62.9	1.006	-0.02	2.220	2.606
	LTE Band 48	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	ECI 17	55340	3560	1	21.50	22.00	1.122	62.9	1.006	-0.13	2.190	2.472
	LTE Band 48	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	ECI 17	55830	3609	1	21.45	22.00	1.135	62.9	1.006	-0.15	1.830	2.090
	LTE Band 48	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	ECI 17	56150	3641	1	21.39	22.00	1.151	62.9	1.006	0.11	1.750	2.026
	LTE Band 48	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	ECI 17	56640	3690	1	21.46	22.00	1.132	62.9	1.006	0.08	2.230	2.540
	LTE Band 48 SA	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	ECI 18	56640	3690	1	19.95	20.50	1.135	62.9	1.006	0.12	1.580	1.804
	LTE Band 48 NSA	20M	QPSK	1	0	-	Right Side	0mm	Ant 5	ECI 18	56640	3690	1	18.92	19.50	1.143	62.9	1.006	0.02	1.270	1.460
	LTE Band 48	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	ECI 17	55340	3560	1	21.47	22.00	1.130	62.9	1.006	-0.02	2.050	2.330
	LTE Band 48	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	ECI 17	55830	3609	1	21.43	22.00	1.140	62.9	1.006	0.15	1.790	2.053
	LTE Band 48	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	ECI 17	56150	3641	1	21.36	22.00	1.159	62.9	1.006	0.01	1.690	1.970
	LTE Band 48	20M	QPSK	50	0	-	Right Side	0mm	Ant 5	ECI 17	56640	3690	1	21.45	22.00	1.135	62.9	1.006	-0.03	2.110	2.409
	LTE Band 48	20M	QPSK	100	0	-	Right Side	0mm	Ant 5	ECI 17	55340	3560	1	21.46	22.00	1.132	62.9	1.006	-0.08	1.950	2.221
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	55340	3560	1	19.46	20.00	1.132	62.9	1.006	-0.11	2.160	2.461
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	55830	3609	1	19.40	20.00	1.148	62.9	1.006	0.04	2.300	2.657
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	56150	3641	1	19.34	20.00	1.164	62.9	1.006	0.08	2.120	2.483
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	56640	3690	1	19.42	20.00	1.143	62.9	1.006	0.08	2.110	2.426
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECI 13/15	55340	3560	1	19.46	20.00	1.132	62.9	1.006	0.1	1.940	2.210
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECI 13/15	55830	3609	1	19.40	20.00	1.148	62.9	1.006	0.12	2.100	2.426
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECI 13/15	56150	3641	1	19.34	20.00	1.164	62.9	1.006	0.05	1.950	2.284
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECI 13/15	56640	3690	1	19.42	20.00	1.143	62.9	1.006	0.02	1.990	2.288
	LTE Band 48 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	55830	3609	1	18.48	19.00	1.127	62.9	1.006	0.06	1.780	2.018
	LTE Band 48 NSA	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 14/16	55830	3609	1	16.94	17.50	1.138	62.9	1.006	0.06	1.320	1.511
	LTE Band 48 NSA	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECI 14/16	55830	3609	1	16.94	17.50	1.138	62.9	1.006	-0.05	1.220	1.396
	LTE Band 48	20M	QPSK	1	0	-	Back	13mm	Ant 1	Full	55340	3560	1	22.51	23.00	1.119	62.9	1.006	0.01	0.282	0.318
	LTE Band 48	20M	QPSK	1	0	-	Left Side	13mm	Ant 1	Full	55340	3560	1	22.51	23.00	1.119	62.9	1.006	0.09	0.012	0.014
	LTE Band 48	20M	QPSK	1	0	-	Left Side	7mm	Ant 1	ECI 13/15	55340	3560	1	19.46	20.00	1.132	62.9	1.006	0.08	0.015	0.017
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	55340	3560	1	19.42	20.00	1.143	62.9	1.006	0.09	2.120	2.437
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	55830	3609	1	19.35	20.00	1.161	62.9	1.006	0.1	2.210	2.582
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	56150	3641	1	19.31	20.00	1.172	62.9	1.006	-0.12	2.100	2.476
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 13/15	56640	3690	1	19.34	20.00	1.164	62.9	1.006	0.03	1.980	2.319
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	ECI 13/15	55340	3560	1	19.42	20.00	1.143	62.9	1.006	-0.09	1.920	2.207
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	ECI 13/15	55830	3609	1	19.35	20.00	1.161	62.9	1.006	0.17	1.960	2.290
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	ECI 13/15	56150	3641	1	19.31	20.00	1.172	62.9	1.006	0.05	1.850	2.182
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	ECI 13/15	56640	3690	1	19.34	20.00	1.164	62.9	1.006	0.08	1.940	2.272
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 1	ECI 13/15	55340	3560	1	19.40	20.00	1.148	62.9	1.006	0.02	2.170	2.506
	LTE Band 48	20M	QPSK	100	0	-	Left Side	0mm	Ant 1	ECI 13/15	55340	3560	1	19.40	20.00	1.148	62.9	1.006	0.06	1.900	2.195
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	ECI 17	633332	3499.98	1	20.33	21.00	1.167	-	-	0.1	1.760	2.054



FCC SAR Test Report

Report No. : FA4N1331

	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECI 17	633332	3499.98	1	20.33	21.00	1.167	-	-	0.05	1.330	1.552
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 7	ECI 17	633332	3499.98	1	20.33	21.00	1.167	-	-	-0.07	1.970	2.299
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 7	ECI 17	633332	3499.98	1	20.30	21.00	1.175	-	-	-0.15	1.740	2.044
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 7	ECI 17	633332	3499.98	1	20.30	21.00	1.175	-	-	0.1	1.250	1.469
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 7	ECI 17	633332	3499.98	1	20.30	21.00	1.175	-	-	-0.08	1.830	2.150
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 7	ECI 17	633332	3499.98	1	20.28	21.00	1.180	-	-	0.06	1.680	1.983
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 7	ECI 17	633332	3499.98	1	20.28	21.00	1.180	-	-	0.12	1.800	2.125
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 7	ECI 17	656000	3840	1	20.14	21.00	1.219	-	-	0.15	1.500	1.828
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	ECI 17	656000	3840	1	20.14	21.00	1.219	-	-	-0.01	2.070	2.523
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECI 17	656000	3840	1	20.14	21.00	1.219	-	-	0.02	1.840	2.243
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 7	ECI 17	656000	3840	1	20.14	21.00	1.219	-	-	-0.15	2.250	2.743
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	ECI 17	656000	3840	1	16.15	17.00	1.216	-	-	0.06	0.831	1.011
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECI 17	656000	3840	1	16.15	17.00	1.216	-	-	0.01	0.755	0.918
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 7	ECI 17	656000	3840	1	16.15	17.00	1.216	-	-	0.05	0.915	1.113
	FR1 n77 Par27Q SA	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECI 18	656000	3840	1	18.72	19.50	1.197	-	-	0.08	1.320	1.580
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	ECI 18	656000	3840	1	14.20	15.00	1.202	-	-	0.05	0.531	0.638
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	ECI 18	656000	3840	1	14.20	15.00	1.202	-	-	0.12	0.473	0.569
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 7	ECI 18	656000	3840	1	14.20	15.00	1.202	-	-	0.02	0.585	0.703
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 7	ECI 17	656000	3840	1	20.18	21.00	1.208	-	-	0.01	1.460	1.763
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 7	ECI 17	656000	3840	1	20.18	21.00	1.208	-	-	0.11	1.910	2.307
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 7	ECI 17	656000	3840	1	20.18	21.00	1.208	-	-	0.06	1.750	2.114
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 7	ECI 17	656000	3840	1	20.18	21.00	1.208	-	-	-0.1	2.190	2.645
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 7	ECI 17	656000	3840	1	20.17	21.00	1.211	-	-	0.02	1.420	1.719
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 7	ECI 17	656000	3840	1	20.17	21.00	1.211	-	-	0.09	1.820	2.203
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 7	ECI 17	656000	3840	1	20.17	21.00	1.211	-	-	-0.17	1.630	1.973
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Top Side	0mm	Ant 7	ECI 17	656000	3840	1	20.17	21.00	1.211	-	-	0.05	2.120	2.566
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	ECI 17	633332	3499.98	1	20.09	20.50	1.099	-	-	0.15	1.190	1.308
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	ECI 17	633332	3499.98	1	20.09	20.50	1.099	-	-	0.04	1.940	2.132
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	ECI 17	633332	3499.98	1	20.05	20.50	1.109	-	-	0.04	1.120	1.242
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 5	ECI 17	633332	3499.98	1	20.05	20.50	1.109	-	-	-0.03	1.830	2.030
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 5	ECI 17	633332	3499.98	1	20.00	20.50	1.122	-	-	0.06	1.760	1.975
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	ECI 17	656000	3840	1	19.76	20.50	1.186	-	-	0.05	1.850	2.194
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	ECI 17	656000	3840	1	19.76	20.50	1.186	-	-	-0.15	2.330	2.763
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	ECI 17	656000	3840	1	15.68	16.50	1.208	-	-	0.06	0.741	0.895
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	ECI 17	656000	3840	1	15.68	16.50	1.208	-	-	0.01	0.906	1.094
	FR1 n77 Par27Q SA	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	ECI 18	656000	3840	1	18.24	19.00	1.191	-	-	0.06	1.750	2.085
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	ECI 18	656000	3840	1	13.70	14.50	1.202	-	-	0.05	0.487	0.586
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 5	ECI 18	656000	3840	1	13.70	14.50	1.202	-	-	0.02	0.599	0.720
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	ECI 17	656000	3840	1	19.68	20.50	1.208	-	-	-0.08	1.780	2.150
	FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 5	ECI 17	656000	3840	1	19.68	20.50	1.208	-	-	0.05	2.170	2.621
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 5	ECI 17	656000	3840	1	19.59	20.50	1.233	-	-	0.14	1.720	2.121
	FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 5	ECI 17	656000	3840	1	19.59	20.50	1.233	-	-	0.01	2.190	2.700
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	ECI 13/15	633332	3499.98	1	18.43	19.00	1.140	-	-	-0.15	2.610	2.976
93	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	633332	3499.98	1	18.43	19.00	1.140	-	-	-0.08	2.650	3.022
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	633332	3499.98	2	18.43	19.00	1.140	-	-	0.06	2.560	2.919
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	ECI 13/15	633332	3499.98	1	13.96	14.50	1.132	-	-	0.09	0.908	1.028
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	633332	3499.98	1	13.96	14.50	1.132	-	-	0.01	0.926	1.049
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	ECI 14/16	633332	3499.98	1	11.88	12.50	1.153	-	-	0.08	0.610	0.704
	FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	ECI 14/16	633332	3499.98	1	11.88	12.50	1.153	-	-	0.03	0.616	0.711
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	13mm	Ant 1	Full	633332	3499.98	1	22.42	23.00	1.143	-	-	0.01	0.619	0.707
	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	13mm	Ant 1	Full	633332	3499.98	1	22.42	23.00	1.143	-	-	-0.09	0.911	1.041



FCC SAR Test Report

Report No. : FA4N1331

FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	7mm	Ant 1	ECI 13/15	633332	3499.98	1	18.43	19.00	1.140	-	-	0.07	0.802	0.914
FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	ECI 13/15	633332	3499.98	1	18.33	19.00	1.167	-	-	0.08	2.500	2.917
FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	633332	3499.98	1	18.33	19.00	1.167	-	-	-0.15	2.580	3.010
FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 1	ECI 13/15	633332	3499.98	1	18.32	19.00	1.169	-	-	0.12	2.190	2.561
FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	633332	3499.98	1	18.32	19.00	1.169	-	-	0.08	2.220	2.596
FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 1	ECI 13/15	656000	3840	1	18.24	19.00	1.191	-	-	-0.15	2.010	2.394
FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	656000	3840	1	18.24	19.00	1.191	-	-	-0.09	2.220	2.645
FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Back	13mm	Ant 1	Full	656000	3840	1	22.19	23.00	1.205	-	-	0.08	0.478	0.576
FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	13mm	Ant 1	Full	656000	3840	1	22.19	23.00	1.205	-	-	0.01	0.590	0.711
FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	7mm	Ant 1	ECI 13/15	656000	3840	1	18.24	19.00	1.191	-	-	-0.07	0.526	0.627
FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 1	ECI 13/15	656000	3840	1	18.21	19.00	1.199	-	-	-0.05	1.910	2.291
FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	656000	3840	1	18.21	19.00	1.199	-	-	-0.02	2.130	2.555
FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 1	ECI 13/15	656000	3840	1	18.11	19.00	1.227	-	-	0.13	1.890	2.320
FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	656000	3840	1	18.11	19.00	1.227	-	-	0.15	2.080	2.553
FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	ECI 17	656000	3840	1	20.83	21.50	1.167	-	-	0.05	2.450	2.859
FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	ECI 17	656000	3840	1	16.38	17.00	1.153	-	-	0.07	0.872	1.006
FR1 n77 Par27Q NSA	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	ECI 18	656000	3840	1	14.32	15.00	1.169	-	-	-0.12	0.541	0.633
FR1 n77 Par27Q	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 3	ECI 17	656000	3840	1	20.80	21.50	1.175	-	-	-0.09	2.280	2.679
FR1 n77 Par27Q	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 3	ECI 17	656000	3840	1	20.76	21.50	1.186	-	-	0.12	2.300	2.727



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
WLAN5GHz																	
94	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	Standalone	38	5190	1	16.86	18.00	1.300	93.1	1.074	0.13	2.120	2.960
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	Standalone	46	5230	1	16.81	18.00	1.315	93.1	1.074	-0.06	2.050	2.896
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	15mm	Ant 6	Standalone	46	5230	1	17.69	19.00	1.352	93.1	1.074	0.07	0.152	0.221
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	42	5210	1	14.11	15.50	1.377	87.88	1.138	0.01	1.120	1.755
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 6	Standalone	54	5270	1	16.41	17.50	1.285	93.1	1.074	-0.03	0.605	0.835
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	Standalone	54	5270	1	16.41	17.50	1.285	93.1	1.074	0.05	0.800	1.104
95	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	Standalone	54	5270	1	16.41	17.50	1.285	93.1	1.074	0.09	2.150	2.968
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Full	54	5270	1	17.72	19.00	1.343	93.1	1.074	0.14	0.468	0.675
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	Standalone	62	5310	1	15.72	17.00	1.343	93.1	1.074	0.14	1.940	2.798
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	8mm	Ant 6	Full	54	5270	1	17.72	19.00	1.343	93.1	1.074	0.09	0.131	0.189
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	14mm	Ant 6	Full	54	5270	1	17.72	19.00	1.343	93.1	1.074	0.01	0.145	0.209
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	15mm	Ant 6	Full	54	5270	1	17.72	19.00	1.343	93.1	1.074	0.08	0.177	0.255
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	6mm	Ant 6	Standalone	54	5270	1	16.41	17.50	1.285	93.1	1.074	0.09	0.129	0.178
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	13mm	Ant 6	Standalone	54	5270	1	16.41	17.50	1.285	93.1	1.074	0.01	0.104	0.144
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	18mm	Ant 6	Full	54	5270	1	17.72	19.00	1.343	93.1	1.074	0.08	0.095	0.137
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	58	5290	1	13.79	15.00	1.321	87.88	1.138	-0.07	0.352	0.529
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	58	5290	1	13.79	15.00	1.321	87.88	1.138	-0.06	0.462	0.695
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	58	5290	1	13.79	15.00	1.321	87.88	1.138	-0.05	1.100	1.654
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Full	54	5270	1	17.72	19.00	1.343	93.1	1.074	0.14	0.336	0.484
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	Standalone	106	5530	1	16.53	18.00	1.403	87.88	1.138	0.02	0.464	0.741
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Standalone	106	5530	1	16.53	18.00	1.403	87.88	1.138	0.14	0.850	1.357
96	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	Standalone	106	5530	1	16.53	18.00	1.403	87.88	1.138	-0.09	1.870	2.985
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	Standalone	106	5530	2	16.53	18.00	1.403	87.88	1.138	-0.14	1.760	2.810
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Full	110	5550	1	17.92	19.00	1.282	93.1	1.074	-0.04	0.294	0.405
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	Standalone	122	5610	1	16.47	18.00	1.422	87.88	1.138	0.03	1.750	2.833
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	Standalone	138	5690	1	16.41	18.00	1.442	87.88	1.138	-0.14	1.710	2.806
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	8mm	Ant 6	Full	110	5550	1	17.92	19.00	1.282	93.1	1.074	0.09	0.183	0.252
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	14mm	Ant 6	Full	110	5550	1	17.92	19.00	1.282	93.1	1.074	0.04	0.188	0.259
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	15mm	Ant 6	Full	110	5550	1	17.92	19.00	1.282	93.1	1.074	0.01	0.173	0.238
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	6mm	Ant 6	Standalone	106	5530	1	16.53	18.00	1.403	87.88	1.138	0.09	0.104	0.166
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	13mm	Ant 6	Standalone	106	5530	1	16.53	18.00	1.403	87.88	1.138	0.04	0.196	0.313
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	18mm	Ant 6	Full	110	5550	1	17.92	19.00	1.282	93.1	1.074	0.01	0.124	0.171
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	106	5530	1	14.05	15.50	1.396	87.88	1.138	0.07	0.272	0.432
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	106	5530	1	14.05	15.50	1.396	87.88	1.138	-0.15	0.486	0.772
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	106	5530	1	14.05	15.50	1.396	87.88	1.138	0.14	1.060	1.684
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Full	110	5550	1	17.92	19.00	1.282	93.1	1.074	-0.04	0.294	0.405
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	Standalone	151	5755	1	16.79	18.50	1.483	93.1	1.074	0.07	0.835	1.330
97	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	Standalone	151	5755	1	16.79	18.50	1.483	93.1	1.074	0.1	1.840	2.930
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	Standalone	159	5795	1	16.70	18.50	1.514	93.1	1.074	0.11	1.780	2.894
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	14mm	Ant 6	Full	151	5755	1	17.12	19.00	1.542	93.1	1.074	0.09	0.153	0.253
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	15mm	Ant 6	Full	151	5755	1	17.12	19.00	1.542	93.1	1.074	0.04	0.243	0.402
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	13mm	Ant 6	Standalone	151	5755	1	16.79	18.50	1.483	93.1	1.074	0.09	0.168	0.267
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	155	5775	1	14.42	16.00	1.439	87.88	1.138	0.06	0.502	0.822
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	WWAN+5G/5G+BT/WWAN+5G+BT	155	5775	1	14.42	16.00	1.439	87.88	1.138	0.09	1.030	1.686



15.5 Repeated SAR Measurement

<1g>

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)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	26865	831.5	22.71	23.50	1.199	-	-	-0.06	0.869	1	1.042
2nd	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 11	26865	831.5	22.71	23.50	1.199	-	-	0.03	0.851	1.021	1.021
1st	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	349000	1745	21.33	22.50	1.309	-	-	-0.04	0.900	1	1.178
2nd	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	349000	1745	21.33	22.50	1.309	-	-	0.08	0.884	1.018	1.157
1st	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	19100	1900	16.47	17.50	1.268	-	-	0.03	0.935	1	1.185
2nd	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 11	19100	1900	16.47	17.50	1.268	-	-	0.12	0.917	1.020	1.162
1st	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	512000	2560	16.08	17.50	1.387	-	-	0.08	0.839	1	1.163
2nd	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	ECI 11	512000	2560	16.08	17.50	1.387	-	-	0.02	0.811	1.035	1.125
1st	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 11	55830	3609	21.45	22.00	1.135	62.9	1.006	0.04	1.030	1	1.176
2nd	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 11	55830	3609	21.45	22.00	1.135	62.9	1.006	-0.16	0.996	1.034	1.137
1st	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI 11	633332	3499.98	19.62	20.00	1.091	-	-	-0.15	0.986	1	1.076
2nd	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	ECI 11	633332	3499.98	19.62	20.00	1.091	-	-	0.06	0.973	1.013	1.062
1st	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	ECI 11	656000	3840	14.83	15.50	1.167	-	-	-0.05	0.970	1	1.132
2nd	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	ECI 11	656000	3840	14.83	15.50	1.167	-	-	0.03	0.922	1.052	1.076

<10g>

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)	Ratio	Reported 10g SAR (W/kg)
1st	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECI 15	349000	1745	20.95	22.50	1.429	-	-	0.09	2.180	1	3.115
2nd	FR1 n66	30M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 4	ECI 15	349000	1745	20.95	22.50	1.429	-	-	0.01	2.090	1.043	2.986
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 13/15	9400	1880	22.15	23.00	1.216	-	-	0.08	2.540	1	3.089
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 13/15	9400	1880	22.15	23.00	1.216	-	-	-0.05	2.470	1.028	3.004
1st	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	21350	2560	21.29	22.00	1.178	-	-	-0.03	2.450	1	2.885
2nd	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	ECI 17	21350	2560	21.29	22.00	1.178	-	-	0.09	2.330	1.052	2.744
1st	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	55830	3609	19.40	20.00	1.148	62.9	1.006	0.04	2.300	1	2.657
2nd	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 13/15	55830	3609	19.40	20.00	1.148	62.9	1.006	0.08	2.210	1.041	2.553
1st	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	633332	3499.98	18.43	19.00	1.140	-	-	-0.08	2.650	1	3.022
2nd	FR1 n77 Par27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 1	ECI 13/15	633332	3499.98	18.43	19.00	1.140	-	-	0.17	2.500	1.060	2.851
1st	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	ECI 17	656000	3840	20.83	21.50	1.167	-	-	0.05	2.450	1	2.859
2nd	FR1 n77 Par27O	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	ECI 17	656000	3840	20.83	21.50	1.167	-	-	0.09	2.370	1.034	2.765
1st	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	Standalone	54	5270	16.41	17.50	1.285	93.1	1.074	0.09	2.150	1	2.968
2nd	WLAN5.3GHz	-	-	-	-	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	Standalone	54	5270	16.41	17.50	1.285	93.1	1.074	0.03	2.090	1.029	2.885

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.
3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The ratio is the difference in percentage between original and repeated *measured* SAR.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
2.	WWAN + 5GHz WLAN	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
4.	5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
5.	WWAN + 5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
6.	WWAN + 2.4GHz WLAN + NFC				Yes
7.	WWAN + 5GHz WLAN + NFC				Yes
8.	WWAN + Bluetooth + NFC				Yes
9.	5GHz WLAN + Bluetooth+ NFC				Yes
10.	WWAN +5GHz WLAN + Bluetooth + NFC				Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- WWAN above includes 5G NR bands and EN-DC combination.
- For 5GNR EN-DC mode, standalone SAR performed for 5GNR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
- According to the EUT characteristic, WLAN 2.4GHz and Bluetooth can't transmit simultaneously.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- The maximum SAR summation is calculated based on the same configuration and test position.
- All licensed modes share the same antenna part and cannot transmit simultaneously.
- For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
- For EN-DC SAR co-located with WLAN/Bluetooth, chose the worst SAR among all LTE bands within the selected antenna per each test position and also the worst SAR of all 5GNR Bands within the selected antenna to do co-located with WLAN/Bluetooth. This is the worst co-located analysis and can represent each LTE bands and each 5GNR band.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.



16.1 Head Exposure Conditions

WWAN Band	Exposure Position	1	3	4	5	1+3	1+4	1+5	4+5
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands Ant 0	Right Cheek	0.299	0.166	0.146	0.080	0.47	0.45	0.38	0.23
	Right Tilted	0.190	0.154	0.104	0.063	0.34	0.29	0.25	0.17
	Left Cheek	0.228	0.536	0.579	0.241	0.76	0.81	0.47	0.82
	Left Tilted	0.140	0.247	0.291	0.108	0.39	0.43	0.25	0.40
ALL Bands Ant 1	Right Cheek	1.178	0.166	0.146	0.080	1.34	1.32	1.26	0.23
	Right Tilted	0.410	0.154	0.104	0.063	0.56	0.51	0.47	0.17
	Left Cheek	0.445	0.536	0.579	0.241	0.98	1.02	0.69	0.82
	Left Tilted	0.350	0.247	0.291	0.108	0.60	0.64	0.46	0.40
ALL Bands Ant 2	Right Cheek	0.528	0.166	0.146	0.080	0.69	0.67	0.61	0.23
	Right Tilted	0.236	0.154	0.104	0.063	0.39	0.34	0.30	0.17
	Left Cheek	0.947	0.536	0.579	0.241	1.48	1.53	1.19	0.82
	Left Tilted	0.252	0.247	0.291	0.108	0.50	0.54	0.36	0.40
ALL Bands Ant 3	Right Cheek	1.132	0.166	0.146	0.080	1.30	1.28	1.21	0.23
	Right Tilted	0.790	0.154	0.104	0.063	0.94	0.89	0.85	0.17
	Left Cheek	0.327	0.536	0.579	0.241	0.86	0.91	0.57	0.82
	Left Tilted	0.237	0.247	0.291	0.108	0.48	0.53	0.35	0.40
ALL Bands Ant 4	Right Cheek	1.172	0.166	0.146	0.080	1.34	1.32	1.25	0.23
	Right Tilted	1.185	0.154	0.104	0.063	1.34	1.29	1.25	0.17
	Left Cheek	0.779	0.536	0.579	0.241	1.32	1.36	1.02	0.82
	Left Tilted	0.963	0.247	0.291	0.108	1.21	1.25	1.07	0.40
ALL Bands Ant 5	Right Cheek	1.001	0.166	0.146	0.080	1.17	1.15	1.08	0.23
	Right Tilted	0.181	0.154	0.104	0.063	0.34	0.29	0.24	0.17
	Left Cheek	0.949	0.536	0.579	0.241	1.49	1.53	1.19	0.82
	Left Tilted	0.375	0.247	0.291	0.108	0.62	0.67	0.48	0.40
ALL Bands Ant 7	Right Cheek	0.331	0.166	0.146	0.080	0.50	0.48	0.41	0.23
	Right Tilted	0.267	0.154	0.104	0.063	0.42	0.37	0.33	0.17
	Left Cheek	0.924	0.536	0.579	0.241	1.46	1.50	1.17	0.82
	Left Tilted	0.808	0.247	0.291	0.108	1.06	1.10	0.92	0.40

WWAN Band	Exposure Position	1	3	4	1+3+4 Summed 1g SAR (W/kg)
		WWAN	WLAN5GHz Ant 6	Bluetooth Ant 6	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
ALL Bands Ant 0	Right Cheek	0.299	0.086	0.080	0.47
	Right Tilted	0.190	0.063	0.063	0.32
	Left Cheek	0.228	0.335	0.241	0.80
	Left Tilted	0.140	0.169	0.108	0.42
ALL Bands Ant 1	Right Cheek	1.178	0.086	0.080	1.34
	Right Tilted	0.410	0.063	0.063	0.54
	Left Cheek	0.445	0.335	0.241	1.02
	Left Tilted	0.350	0.169	0.108	0.63
ALL Bands Ant 2	Right Cheek	0.528	0.086	0.080	0.69
	Right Tilted	0.236	0.063	0.063	0.36
	Left Cheek	0.947	0.335	0.241	1.52
	Left Tilted	0.252	0.169	0.108	0.53
ALL Bands Ant 3	Right Cheek	1.132	0.086	0.080	1.30
	Right Tilted	0.790	0.063	0.063	0.92
	Left Cheek	0.327	0.335	0.241	0.90
	Left Tilted	0.237	0.169	0.108	0.51



FCC SAR Test Report

Report No. : FA4N1331

ALL Bands Ant 4	Right Cheek	1.172	0.086	0.080	1.34
	Right Tilted	1.185	0.063	0.063	1.31
	Left Cheek	0.779	0.335	0.241	1.36
	Left Tilted	0.963	0.169	0.108	1.24
ALL Bands Ant 5	Right Cheek	1.001	0.086	0.080	1.17
	Right Tilted	0.181	0.063	0.063	0.31
	Left Cheek	0.949	0.335	0.241	1.53
	Left Tilted	0.375	0.169	0.108	0.65
ALL Bands Ant 7	Right Cheek	0.331	0.086	0.080	0.50
	Right Tilted	0.267	0.063	0.063	0.39
	Left Cheek	0.924	0.335	0.241	1.50
	Left Tilted	0.808	0.169	0.108	1.09

<ENDC>

WWAN Band	FR1 Band	Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)
			WWAN	FR1	
			1g SAR (W/kg)	1g SAR (W/kg)	
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Right Cheek	0.291	0.408	0.70
		Right Tilted	0.176	0.404	0.58
		Left Cheek	0.213	0.409	0.62
		Left Tilted	0.131	0.350	0.48
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Right Cheek	0.291	0.364	0.66
		Right Tilted	0.176	0.236	0.41
		Left Cheek	0.213	0.416	0.63
		Left Tilted	0.131	0.252	0.38
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Right Cheek	0.291	0.384	0.68
		Right Tilted	0.176	0.232	0.41
		Left Cheek	0.213	0.327	0.54
		Left Tilted	0.131	0.237	0.37
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Right Cheek	0.291	0.433	0.72
		Right Tilted	0.176	0.693	0.87
		Left Cheek	0.213	0.349	0.56
		Left Tilted	0.131	0.963	1.09
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Right Cheek	0.291	0.227	0.52
		Right Tilted	0.176	0.181	0.36
		Left Cheek	0.213	0.439	0.65
		Left Tilted	0.131	0.375	0.51
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Right Cheek	0.291	0.285	0.58
		Right Tilted	0.176	0.222	0.40
		Left Cheek	0.213	0.414	0.63
		Left Tilted	0.131	0.278	0.41
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Right Cheek	0.988	0.299	1.29
		Right Tilted	0.371	0.165	0.54
		Left Cheek	0.417	0.221	0.64
		Left Tilted	0.320	0.134	0.45
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 2	Right Cheek	0.988	0.364	1.35
		Right Tilted	0.371	0.236	0.61
		Left Cheek	0.417	0.416	0.83
		Left Tilted	0.320	0.252	0.57
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Right Cheek	0.988	0.384	1.37
		Right Tilted	0.371	0.232	0.60
		Left Cheek	0.417	0.327	0.74
		Left Tilted	0.320	0.237	0.56
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Right Cheek	0.988	0.433	1.42
		Right Tilted	0.371	0.693	1.06
		Left Cheek	0.417	0.349	0.77

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FCC ID : 2AZEQ-A001

Page : 105 of 151

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		Left Tilted	0.320	0.963	1.28
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Right Cheek	0.988	0.227	1.22
		Right Tilted	0.371	0.181	0.55
		Left Cheek	0.417	0.439	0.86
		Left Tilted	0.320	0.375	0.70
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 7	Right Cheek	0.988	0.285	1.27
		Right Tilted	0.371	0.222	0.59
		Left Cheek	0.417	0.414	0.83
		Left Tilted	0.320	0.278	0.60
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Right Cheek	0.418	0.299	0.72
		Right Tilted	0.196	0.165	0.36
		Left Cheek	0.548	0.221	0.77
		Left Tilted	0.238	0.134	0.37
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Right Cheek	0.418	0.408	0.83
		Right Tilted	0.196	0.404	0.60
		Left Cheek	0.548	0.409	0.96
		Left Tilted	0.238	0.350	0.59
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Right Cheek	0.418	0.384	0.80
		Right Tilted	0.196	0.232	0.43
		Left Cheek	0.548	0.327	0.88
		Left Tilted	0.238	0.237	0.48
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 4	Right Cheek	0.418	0.433	0.85
		Right Tilted	0.196	0.693	0.89
		Left Cheek	0.548	0.349	0.90
		Left Tilted	0.238	0.963	1.20
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Right Cheek	0.418	0.227	0.65
		Right Tilted	0.196	0.181	0.38
		Left Cheek	0.548	0.439	0.99
		Left Tilted	0.238	0.375	0.61
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Right Cheek	0.418	0.285	0.70
		Right Tilted	0.196	0.222	0.42
		Left Cheek	0.548	0.414	0.96
		Left Tilted	0.238	0.278	0.52
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 0	Right Cheek	1.105	0.299	1.40
		Right Tilted	0.790	0.165	0.96
		Left Cheek	0.263	0.221	0.48
		Left Tilted	0.213	0.134	0.35
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Right Cheek	1.105	0.408	1.51
		Right Tilted	0.790	0.404	1.19
		Left Cheek	0.263	0.409	0.67
		Left Tilted	0.213	0.350	0.56
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Right Cheek	1.105	0.364	1.47
		Right Tilted	0.790	0.236	1.03
		Left Cheek	0.263	0.416	0.68
		Left Tilted	0.213	0.252	0.47
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 4	Right Cheek	1.105	0.433	1.54
		Right Tilted	0.790	0.693	1.48
		Left Cheek	0.263	0.349	0.61
		Left Tilted	0.213	0.963	1.18
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Right Cheek	1.105	0.227	1.33
		Right Tilted	0.790	0.181	0.97
		Left Cheek	0.263	0.439	0.70
		Left Tilted	0.213	0.375	0.59
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Right Cheek	1.105	0.285	1.39
		Right Tilted	0.790	0.222	1.01
		Left Cheek	0.263	0.414	0.68



FCC SAR Test Report

Report No. : FA4N1331

		Left Tilted	0.213	0.278	0.49
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 0	Right Cheek	1.172	0.299	1.47
		Right Tilted	1.185	0.165	1.35
		Left Cheek	0.766	0.221	0.99
		Left Tilted	0.798	0.134	0.93
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Right Cheek	1.172	0.408	1.58
		Right Tilted	1.185	0.404	1.59
		Left Cheek	0.766	0.409	1.18
		Left Tilted	0.798	0.350	1.15
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Right Cheek	1.172	0.364	1.54
		Right Tilted	1.185	0.236	1.42
		Left Cheek	0.766	0.416	1.18
		Left Tilted	0.798	0.252	1.05
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Right Cheek	1.172	0.384	1.56
		Right Tilted	1.185	0.232	1.42
		Left Cheek	0.766	0.327	1.09
		Left Tilted	0.798	0.237	1.04
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Right Cheek	1.172	0.227	1.40
		Right Tilted	1.185	0.181	1.37
		Left Cheek	0.766	0.439	1.21
		Left Tilted	0.798	0.375	1.17
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Right Cheek	1.172	0.285	1.46
		Right Tilted	1.185	0.222	1.41
		Left Cheek	0.766	0.414	1.18
		Left Tilted	0.798	0.278	1.08
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Right Cheek	1.001	0.299	1.30
		Right Tilted	0.164	0.165	0.33
		Left Cheek	1.176	0.221	1.40
		Left Tilted	0.332	0.134	0.47
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Right Cheek	1.001	0.408	1.41
		Right Tilted	0.164	0.404	0.57
		Left Cheek	1.176	0.409	1.59
		Left Tilted	0.332	0.350	0.68
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Right Cheek	1.001	0.364	1.37
		Right Tilted	0.164	0.236	0.40
		Left Cheek	1.176	0.416	1.59
		Left Tilted	0.332	0.252	0.58
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Right Cheek	1.001	0.384	1.39
		Right Tilted	0.164	0.232	0.40
		Left Cheek	1.176	0.327	1.50
		Left Tilted	0.332	0.237	0.57
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Right Cheek	1.001	0.433	1.43
		Right Tilted	0.164	0.693	0.86
		Left Cheek	1.176	0.349	1.53
		Left Tilted	0.332	0.963	1.30
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 7	Right Cheek	1.001	0.285	1.29
		Right Tilted	0.164	0.222	0.39
		Left Cheek	1.176	0.414	1.59
		Left Tilted	0.332	0.278	0.61

WWAN Band	FR1 Band	Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)
			WWAN	FR1	
			1g SAR (W/kg)	1g SAR (W/kg)	
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Right Cheek	0.331	0.299	0.63
		Right Tilted	0.267	0.165	0.43
		Left Cheek	1.112	0.221	1.33



FCC SAR Test Report

Report No. : FA4N1331

ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Left Tilted	0.575	0.134	0.71
		Right Cheek	0.331	0.408	0.74
		Right Tilted	0.267	0.404	0.67
		Left Cheek	1.112	0.409	1.52
		Left Tilted	0.575	0.350	0.93
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Right Cheek	0.331	0.364	0.70
		Right Tilted	0.267	0.236	0.50
		Left Cheek	1.112	0.416	1.53
		Left Tilted	0.575	0.252	0.83
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Right Cheek	0.331	0.384	0.72
		Right Tilted	0.267	0.232	0.50
		Left Cheek	1.112	0.327	1.44
		Left Tilted	0.575	0.237	0.81
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Right Cheek	0.331	0.433	0.76
		Right Tilted	0.267	0.693	0.96
		Left Cheek	1.112	0.349	1.46
		Left Tilted	0.575	0.963	1.54
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Right Cheek	0.331	0.227	0.56
		Right Tilted	0.267	0.181	0.45
		Left Cheek	1.112	0.439	1.55
		Left Tilted	0.575	0.375	0.95

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Right Cheek	0.291	0.320	0.166	0.146	0.080	0.78	0.76	0.69
		Right Tilted	0.176	0.404	0.154	0.104	0.063	0.73	0.68	0.64
		Left Cheek	0.213	0.295	0.536	0.579	0.241	1.04	1.09	0.75
		Left Tilted	0.131	0.350	0.247	0.291	0.108	0.73	0.77	0.59
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Right Cheek	0.291	0.364	0.166	0.146	0.080	0.82	0.80	0.74
		Right Tilted	0.176	0.236	0.154	0.104	0.063	0.57	0.52	0.48
		Left Cheek	0.213	0.332	0.536	0.579	0.241	1.08	1.12	0.79
		Left Tilted	0.131	0.252	0.247	0.291	0.108	0.63	0.67	0.49
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Right Cheek	0.291	0.291	0.166	0.146	0.080	0.75	0.73	0.66
		Right Tilted	0.176	0.179	0.154	0.104	0.063	0.51	0.46	0.42
		Left Cheek	0.213	0.327	0.536	0.579	0.241	1.08	1.12	0.78
		Left Tilted	0.131	0.237	0.247	0.291	0.108	0.62	0.66	0.48
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Right Cheek	0.291	0.605	0.166	0.146	0.080	1.06	1.04	0.98
		Right Tilted	0.176	0.589	0.154	0.104	0.063	0.92	0.87	0.83
		Left Cheek	0.213	0.351	0.536	0.579	0.241	1.10	1.14	0.81
		Left Tilted	0.131	0.628	0.247	0.291	0.108	1.01	1.05	0.87
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Right Cheek	0.291	0.162	0.166	0.146	0.080	0.62	0.60	0.53
		Right Tilted	0.176	0.181	0.154	0.104	0.063	0.51	0.46	0.42
		Left Cheek	0.213	0.294	0.536	0.579	0.241	1.04	1.09	0.75
		Left Tilted	0.131	0.375	0.247	0.291	0.108	0.75	0.80	0.61
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Right Cheek	0.291	0.285	0.166	0.146	0.080	0.74	0.72	0.66
		Right Tilted	0.176	0.222	0.154	0.104	0.063	0.55	0.50	0.46
		Left Cheek	0.213	0.312	0.536	0.579	0.241	1.06	1.10	0.77
		Left Tilted	0.131	0.212	0.247	0.291	0.108	0.59	0.63	0.45
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Right Cheek	0.689	0.299	0.166	0.146	0.080	1.15	1.13	1.07
		Right Tilted	0.371	0.165	0.154	0.104	0.063	0.69	0.64	0.60
		Left Cheek	0.417	0.221	0.536	0.579	0.241	1.17	1.22	0.88
		Left Tilted	0.320	0.134	0.247	0.291	0.108	0.70	0.75	0.56
ALL Bands	ALL Bands FR1 Ant 2	Right Cheek	0.689	0.364	0.166	0.146	0.080	1.22	1.20	1.13
		Right Tilted	0.371	0.236	0.154	0.104	0.063	0.76	0.71	0.67



FCC SAR Test Report

Report No. : FA4N1331

LTE Ant 1		Left Cheek	0.417	0.332	0.536	0.579	0.241	1.29	1.33	0.99
		Left Tilted	0.320	0.252	0.247	0.291	0.108	0.82	0.86	0.68
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Right Cheek	0.689	0.291	0.166	0.146	0.080	1.15	1.13	1.06
		Right Tilted	0.371	0.179	0.154	0.104	0.063	0.70	0.65	0.61
		Left Cheek	0.417	0.327	0.536	0.579	0.241	1.28	1.32	0.99
		Left Tilted	0.320	0.237	0.247	0.291	0.108	0.80	0.85	0.67
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Right Cheek	0.689	0.605	0.166	0.146	0.080	1.46	1.44	1.37
		Right Tilted	0.371	0.589	0.154	0.104	0.063	1.11	1.06	1.02
		Left Cheek	0.417	0.351	0.536	0.579	0.241	1.30	1.35	1.01
		Left Tilted	0.320	0.628	0.247	0.291	0.108	1.20	1.24	1.06
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Right Cheek	0.689	0.162	0.166	0.146	0.080	1.02	1.00	0.93
		Right Tilted	0.371	0.181	0.154	0.104	0.063	0.71	0.66	0.62
		Left Cheek	0.417	0.294	0.536	0.579	0.241	1.25	1.29	0.95
		Left Tilted	0.320	0.375	0.247	0.291	0.108	0.94	0.99	0.80
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 7	Right Cheek	0.689	0.285	0.166	0.146	0.080	1.14	1.12	1.05
		Right Tilted	0.371	0.222	0.154	0.104	0.063	0.75	0.70	0.66
		Left Cheek	0.417	0.312	0.536	0.579	0.241	1.27	1.31	0.97
		Left Tilted	0.320	0.212	0.247	0.291	0.108	0.78	0.82	0.64
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Right Cheek	0.418	0.299	0.166	0.146	0.080	0.88	0.86	0.80
		Right Tilted	0.196	0.165	0.154	0.104	0.063	0.52	0.47	0.42
		Left Cheek	0.548	0.221	0.536	0.579	0.241	1.31	1.35	1.01
		Left Tilted	0.238	0.134	0.247	0.291	0.108	0.62	0.66	0.48
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Right Cheek	0.418	0.320	0.166	0.146	0.080	0.90	0.88	0.82
		Right Tilted	0.196	0.404	0.154	0.104	0.063	0.75	0.70	0.66
		Left Cheek	0.548	0.295	0.536	0.579	0.241	1.38	1.42	1.08
		Left Tilted	0.238	0.350	0.247	0.291	0.108	0.84	0.88	0.70
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Right Cheek	0.418	0.291	0.166	0.146	0.080	0.88	0.86	0.79
		Right Tilted	0.196	0.179	0.154	0.104	0.063	0.53	0.48	0.44
		Left Cheek	0.548	0.327	0.536	0.579	0.241	1.41	1.45	1.12
		Left Tilted	0.238	0.237	0.247	0.291	0.108	0.72	0.77	0.58
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 4	Right Cheek	0.418	0.605	0.166	0.146	0.080	1.19	1.17	1.10
		Right Tilted	0.196	0.589	0.154	0.104	0.063	0.94	0.89	0.85
		Left Cheek	0.548	0.351	0.536	0.579	0.241	1.44	1.48	1.14
		Left Tilted	0.238	0.628	0.247	0.291	0.108	1.11	1.16	0.97
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Right Cheek	0.418	0.162	0.166	0.146	0.080	0.75	0.73	0.66
		Right Tilted	0.196	0.181	0.154	0.104	0.063	0.53	0.48	0.44
		Left Cheek	0.548	0.294	0.536	0.579	0.241	1.38	1.42	1.08
		Left Tilted	0.238	0.375	0.247	0.291	0.108	0.86	0.90	0.72
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Right Cheek	0.418	0.285	0.166	0.146	0.080	0.87	0.85	0.78
		Right Tilted	0.196	0.222	0.154	0.104	0.063	0.57	0.52	0.48
		Left Cheek	0.548	0.312	0.536	0.579	0.241	1.40	1.44	1.10
		Left Tilted	0.238	0.212	0.247	0.291	0.108	0.70	0.74	0.56
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 0	Right Cheek	0.630	0.299	0.166	0.146	0.080	1.10	1.08	1.01
		Right Tilted	0.790	0.165	0.154	0.104	0.063	1.11	1.06	1.02
		Left Cheek	0.263	0.221	0.536	0.579	0.241	1.02	1.06	0.73
		Left Tilted	0.213	0.134	0.247	0.291	0.108	0.59	0.64	0.46
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Right Cheek	0.630	0.320	0.166	0.146	0.080	1.12	1.10	1.03
		Right Tilted	0.790	0.404	0.154	0.104	0.063	1.35	1.30	1.26
		Left Cheek	0.263	0.295	0.536	0.579	0.241	1.09	1.14	0.80
		Left Tilted	0.213	0.350	0.247	0.291	0.108	0.81	0.85	0.67
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Right Cheek	0.630	0.364	0.166	0.146	0.080	1.16	1.14	1.07
		Right Tilted	0.790	0.236	0.154	0.104	0.063	1.18	1.13	1.09
		Left Cheek	0.263	0.332	0.536	0.579	0.241	1.13	1.17	0.84
		Left Tilted	0.213	0.252	0.247	0.291	0.108	0.71	0.76	0.57
ALL Bands	ALL Bands FR1 Ant 4	Right Cheek	0.630	0.605	0.166	0.146	0.080	1.40	1.38	1.32
		Right Tilted	0.790	0.589	0.154	0.104	0.063	1.53	1.48	1.44



FCC SAR Test Report

Report No. : FA4N1331

LTE Ant 3		Left Cheek	0.263	0.351	0.536	0.579	0.241	1.15	1.19	0.86
		Left Tilted	0.213	0.628	0.247	0.291	0.108	1.09	1.13	0.95
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Right Cheek	0.630	0.162	0.166	0.146	0.080	0.96	0.94	0.87
		Right Tilted	0.790	0.181	0.154	0.104	0.063	1.13	1.08	1.03
		Left Cheek	0.263	0.294	0.536	0.579	0.241	1.09	1.14	0.80
		Left Tilted	0.213	0.375	0.247	0.291	0.108	0.84	0.88	0.70
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Right Cheek	0.630	0.285	0.166	0.146	0.080	1.08	1.06	1.00
		Right Tilted	0.790	0.222	0.154	0.104	0.063	1.17	1.12	1.08
		Left Cheek	0.263	0.312	0.536	0.579	0.241	1.11	1.15	0.82
		Left Tilted	0.213	0.212	0.247	0.291	0.108	0.67	0.72	0.53
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 0	Right Cheek	1.042	0.299	0.166	0.146	0.080	1.51	1.49	1.42
		Right Tilted	0.964	0.165	0.154	0.104	0.063	1.28	1.23	1.19
		Left Cheek	0.666	0.221	0.536	0.579	0.241	1.42	1.47	1.13
		Left Tilted	0.798	0.134	0.247	0.291	0.108	1.18	1.22	1.04
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Right Cheek	1.042	0.320	0.166	0.146	0.080	1.53	1.51	1.44
		Right Tilted	0.964	0.404	0.154	0.104	0.063	1.52	1.47	1.43
		Left Cheek	0.666	0.295	0.536	0.579	0.241	1.50	1.54	1.20
		Left Tilted	0.798	0.350	0.247	0.291	0.108	1.40	1.44	1.26
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Right Cheek	1.042	0.364	0.166	0.146	0.080	1.57	1.55	1.49
		Right Tilted	0.964	0.236	0.154	0.104	0.063	1.35	1.30	1.26
		Left Cheek	0.666	0.332	0.536	0.579	0.241	1.53	1.58	1.24
		Left Tilted	0.798	0.252	0.247	0.291	0.108	1.30	1.34	1.16
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Right Cheek	1.042	0.291	0.166	0.146	0.080	1.50	1.48	1.41
		Right Tilted	0.964	0.179	0.154	0.104	0.063	1.30	1.25	1.21
		Left Cheek	0.666	0.327	0.536	0.579	0.241	1.53	1.57	1.23
		Left Tilted	0.798	0.237	0.247	0.291	0.108	1.28	1.33	1.14
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Right Cheek	1.042	0.162	0.166	0.146	0.080	1.37	1.35	1.28
		Right Tilted	0.964	0.181	0.154	0.104	0.063	1.30	1.25	1.21
		Left Cheek	0.666	0.294	0.536	0.579	0.241	1.50	1.54	1.20
		Left Tilted	0.798	0.375	0.247	0.291	0.108	1.42	1.46	1.28
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Right Cheek	1.042	0.285	0.166	0.146	0.080	1.49	1.47	1.41
		Right Tilted	0.964	0.222	0.154	0.104	0.063	1.34	1.29	1.25
		Left Cheek	0.666	0.312	0.536	0.579	0.241	1.51	1.56	1.22
		Left Tilted	0.798	0.212	0.247	0.291	0.108	1.26	1.30	1.12
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Right Cheek	0.613	0.299	0.166	0.146	0.080	1.08	1.06	0.99
		Right Tilted	0.164	0.165	0.154	0.104	0.063	0.48	0.43	0.39
		Left Cheek	0.637	0.221	0.536	0.579	0.241	1.39	1.44	1.10
		Left Tilted	0.332	0.134	0.247	0.291	0.108	0.71	0.76	0.57
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Right Cheek	0.613	0.320	0.166	0.146	0.080	1.10	1.08	1.01
		Right Tilted	0.164	0.404	0.154	0.104	0.063	0.72	0.67	0.63
		Left Cheek	0.637	0.295	0.536	0.579	0.241	1.47	1.51	1.17
		Left Tilted	0.332	0.350	0.247	0.291	0.108	0.93	0.97	0.79
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Right Cheek	0.613	0.364	0.166	0.146	0.080	1.14	1.12	1.06
		Right Tilted	0.164	0.236	0.154	0.104	0.063	0.55	0.50	0.46
		Left Cheek	0.637	0.332	0.536	0.579	0.241	1.51	1.55	1.21
		Left Tilted	0.332	0.252	0.247	0.291	0.108	0.83	0.88	0.69
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Right Cheek	0.613	0.291	0.166	0.146	0.080	1.07	1.05	0.98
		Right Tilted	0.164	0.179	0.154	0.104	0.063	0.50	0.45	0.41
		Left Cheek	0.637	0.327	0.536	0.579	0.241	1.50	1.54	1.21
		Left Tilted	0.332	0.237	0.247	0.291	0.108	0.82	0.86	0.68
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Right Cheek	0.613	0.605	0.166	0.146	0.080	1.38	1.36	1.30
		Right Tilted	0.164	0.589	0.154	0.104	0.063	0.91	0.86	0.82
		Left Cheek	0.637	0.351	0.536	0.579	0.241	1.52	1.57	1.23
		Left Tilted	0.332	0.628	0.247	0.291	0.108	1.21	1.25	1.07
ALL Bands	ALL Bands FR1 Ant 7	Right Cheek	0.613	0.285	0.166	0.146	0.080	1.06	1.04	0.98
		Right Tilted	0.164	0.222	0.154	0.104	0.063	0.54	0.49	0.45



FCC SAR Test Report

Report No. : FA4N1331

LTE Ant 5		Left Cheek	0.637	0.312	0.536	0.579	0.241	1.49	1.53	1.19
		Left Tilted	0.332	0.212	0.247	0.291	0.108	0.79	0.84	0.65

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Right Cheek	0.331	0.299	0.166	0.146	0.080	0.80	0.78	0.71
		Right Tilted	0.267	0.165	0.154	0.104	0.063	0.59	0.54	0.50
		Left Cheek	0.624	0.221	0.536	0.579	0.241	1.38	1.42	1.09
		Left Tilted	0.575	0.134	0.247	0.291	0.108	0.96	1.00	0.82
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Right Cheek	0.331	0.320	0.166	0.146	0.080	0.82	0.80	0.73
		Right Tilted	0.267	0.404	0.154	0.104	0.063	0.83	0.78	0.73
		Left Cheek	0.624	0.295	0.536	0.579	0.241	1.46	1.50	1.16
		Left Tilted	0.575	0.350	0.247	0.291	0.108	1.17	1.22	1.03
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Right Cheek	0.331	0.364	0.166	0.146	0.080	0.86	0.84	0.78
		Right Tilted	0.267	0.236	0.154	0.104	0.063	0.66	0.61	0.57
		Left Cheek	0.624	0.332	0.536	0.579	0.241	1.49	1.54	1.20
		Left Tilted	0.575	0.252	0.247	0.291	0.108	1.07	1.12	0.94
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Right Cheek	0.331	0.291	0.166	0.146	0.080	0.79	0.77	0.70
		Right Tilted	0.267	0.179	0.154	0.104	0.063	0.60	0.55	0.51
		Left Cheek	0.624	0.327	0.536	0.579	0.241	1.49	1.53	1.19
		Left Tilted	0.575	0.237	0.247	0.291	0.108	1.06	1.10	0.92
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Right Cheek	0.331	0.605	0.166	0.146	0.080	1.10	1.08	1.02
		Right Tilted	0.267	0.589	0.154	0.104	0.063	1.01	0.96	0.92
		Left Cheek	0.624	0.351	0.536	0.579	0.241	1.51	1.55	1.22
		Left Tilted	0.575	0.628	0.247	0.291	0.108	1.45	1.49	1.31
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Right Cheek	0.331	0.162	0.166	0.146	0.080	0.66	0.64	0.57
		Right Tilted	0.267	0.181	0.154	0.104	0.063	0.60	0.55	0.51
		Left Cheek	0.624	0.294	0.536	0.579	0.241	1.45	1.50	1.16
		Left Tilted	0.575	0.375	0.247	0.291	0.108	1.20	1.24	1.06

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+2+3+4 Summed 1g SAR (W/kg)
			WWAN	FR1	WLAN5GHz Ant 6	Bluetooth Ant 6	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Right Cheek	0.291	0.320	0.086	0.080	0.78
		Right Tilted	0.176	0.404	0.063	0.063	0.71
		Left Cheek	0.213	0.295	0.335	0.241	1.08
		Left Tilted	0.131	0.350	0.169	0.108	0.76
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Right Cheek	0.291	0.364	0.086	0.080	0.82
		Right Tilted	0.176	0.236	0.063	0.063	0.54
		Left Cheek	0.213	0.332	0.335	0.241	1.12
		Left Tilted	0.131	0.252	0.169	0.108	0.66
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Right Cheek	0.291	0.291	0.086	0.080	0.75
		Right Tilted	0.176	0.179	0.063	0.063	0.48
		Left Cheek	0.213	0.327	0.335	0.241	1.12
		Left Tilted	0.131	0.237	0.169	0.108	0.65
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Right Cheek	0.291	0.605	0.086	0.080	1.06
		Right Tilted	0.176	0.589	0.063	0.063	0.89
		Left Cheek	0.213	0.351	0.335	0.241	1.14
		Left Tilted	0.131	0.628	0.169	0.108	1.04
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Right Cheek	0.291	0.162	0.086	0.080	0.62
		Right Tilted	0.176	0.181	0.063	0.063	0.48
		Left Cheek	0.213	0.294	0.335	0.241	1.08
		Left Tilted	0.131	0.375	0.169	0.108	0.78



FCC SAR Test Report

Report No. : FA4N1331

ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Right Cheek	0.291	0.285	0.086	0.080	0.74
		Right Tilted	0.176	0.222	0.063	0.063	0.52
		Left Cheek	0.213	0.312	0.335	0.241	1.10
		Left Tilted	0.131	0.212	0.169	0.108	0.62
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Right Cheek	0.689	0.299	0.086	0.080	1.15
		Right Tilted	0.371	0.165	0.063	0.063	0.66
		Left Cheek	0.417	0.221	0.335	0.241	1.21
		Left Tilted	0.320	0.134	0.169	0.108	0.73
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 2	Right Cheek	0.689	0.364	0.086	0.080	1.22
		Right Tilted	0.371	0.236	0.063	0.063	0.73
		Left Cheek	0.417	0.332	0.335	0.241	1.33
		Left Tilted	0.320	0.252	0.169	0.108	0.85
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Right Cheek	0.689	0.291	0.086	0.080	1.15
		Right Tilted	0.371	0.179	0.063	0.063	0.68
		Left Cheek	0.417	0.327	0.335	0.241	1.32
		Left Tilted	0.320	0.237	0.169	0.108	0.83
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Right Cheek	0.689	0.605	0.086	0.080	1.46
		Right Tilted	0.371	0.589	0.063	0.063	1.09
		Left Cheek	0.417	0.351	0.335	0.241	1.34
		Left Tilted	0.320	0.628	0.169	0.108	1.23
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Right Cheek	0.689	0.162	0.086	0.080	1.02
		Right Tilted	0.371	0.181	0.063	0.063	0.68
		Left Cheek	0.417	0.294	0.335	0.241	1.29
		Left Tilted	0.320	0.375	0.169	0.108	0.97
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 7	Right Cheek	0.689	0.285	0.086	0.080	1.14
		Right Tilted	0.371	0.222	0.063	0.063	0.72
		Left Cheek	0.417	0.312	0.335	0.241	1.31
		Left Tilted	0.320	0.212	0.169	0.108	0.81
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Right Cheek	0.418	0.299	0.086	0.080	0.88
		Right Tilted	0.196	0.165	0.063	0.063	0.49
		Left Cheek	0.548	0.221	0.335	0.241	1.35
		Left Tilted	0.238	0.134	0.169	0.108	0.65
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Right Cheek	0.418	0.320	0.086	0.080	0.90
		Right Tilted	0.196	0.404	0.063	0.063	0.73
		Left Cheek	0.548	0.295	0.335	0.241	1.42
		Left Tilted	0.238	0.350	0.169	0.108	0.87
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Right Cheek	0.418	0.291	0.086	0.080	0.88
		Right Tilted	0.196	0.179	0.063	0.063	0.50
		Left Cheek	0.548	0.327	0.335	0.241	1.45
		Left Tilted	0.238	0.237	0.169	0.108	0.75
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 4	Right Cheek	0.418	0.605	0.086	0.080	1.19
		Right Tilted	0.196	0.589	0.063	0.063	0.91
		Left Cheek	0.548	0.351	0.335	0.241	1.48
		Left Tilted	0.238	0.628	0.169	0.108	1.14
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Right Cheek	0.418	0.162	0.086	0.080	0.75
		Right Tilted	0.196	0.181	0.063	0.063	0.50
		Left Cheek	0.548	0.294	0.335	0.241	1.42
		Left Tilted	0.238	0.375	0.169	0.108	0.89
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Right Cheek	0.418	0.285	0.086	0.080	0.87
		Right Tilted	0.196	0.222	0.063	0.063	0.54
		Left Cheek	0.548	0.312	0.335	0.241	1.44
		Left Tilted	0.238	0.212	0.169	0.108	0.73
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 0	Right Cheek	0.630	0.299	0.086	0.080	1.10
		Right Tilted	0.790	0.165	0.063	0.063	1.08
		Left Cheek	0.263	0.221	0.335	0.241	1.06
		Left Tilted	0.213	0.134	0.169	0.108	0.62



FCC SAR Test Report

Report No. : FA4N1331

ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Right Cheek	0.630	0.320	0.086	0.080	1.12
		Right Tilted	0.790	0.404	0.063	0.063	1.32
		Left Cheek	0.263	0.295	0.335	0.241	1.13
		Left Tilted	0.213	0.350	0.169	0.108	0.84
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Right Cheek	0.630	0.364	0.086	0.080	1.16
		Right Tilted	0.790	0.236	0.063	0.063	1.15
		Left Cheek	0.263	0.332	0.335	0.241	1.17
		Left Tilted	0.213	0.252	0.169	0.108	0.74
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 4	Right Cheek	0.630	0.605	0.086	0.080	1.40
		Right Tilted	0.790	0.589	0.063	0.063	1.51
		Left Cheek	0.263	0.351	0.335	0.241	1.19
		Left Tilted	0.213	0.628	0.169	0.108	1.12
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Right Cheek	0.630	0.162	0.086	0.080	0.96
		Right Tilted	0.790	0.181	0.063	0.063	1.10
		Left Cheek	0.263	0.294	0.335	0.241	1.13
		Left Tilted	0.213	0.375	0.169	0.108	0.87
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Right Cheek	0.630	0.285	0.086	0.080	1.08
		Right Tilted	0.790	0.222	0.063	0.063	1.14
		Left Cheek	0.263	0.312	0.335	0.241	1.15
		Left Tilted	0.213	0.212	0.169	0.108	0.70
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 0	Right Cheek	1.042	0.299	0.086	0.080	1.51
		Right Tilted	0.964	0.165	0.063	0.063	1.26
		Left Cheek	0.666	0.221	0.335	0.241	1.46
		Left Tilted	0.798	0.134	0.169	0.108	1.21
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Right Cheek	1.042	0.320	0.086	0.080	1.53
		Right Tilted	0.964	0.404	0.063	0.063	1.49
		Left Cheek	0.666	0.295	0.335	0.241	1.54
		Left Tilted	0.798	0.350	0.169	0.108	1.43
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Right Cheek	1.042	0.364	0.086	0.080	1.57
		Right Tilted	0.964	0.236	0.063	0.063	1.33
		Left Cheek	0.666	0.332	0.335	0.241	1.57
		Left Tilted	0.798	0.252	0.169	0.108	1.33
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Right Cheek	1.042	0.291	0.086	0.080	1.50
		Right Tilted	0.964	0.179	0.063	0.063	1.27
		Left Cheek	0.666	0.327	0.335	0.241	1.57
		Left Tilted	0.798	0.237	0.169	0.108	1.31
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Right Cheek	1.042	0.162	0.086	0.080	1.37
		Right Tilted	0.964	0.181	0.063	0.063	1.27
		Left Cheek	0.666	0.294	0.335	0.241	1.54
		Left Tilted	0.798	0.375	0.169	0.108	1.45
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Right Cheek	1.042	0.285	0.086	0.080	1.49
		Right Tilted	0.964	0.222	0.063	0.063	1.31
		Left Cheek	0.666	0.312	0.335	0.241	1.55
		Left Tilted	0.798	0.212	0.169	0.108	1.29
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Right Cheek	0.613	0.299	0.086	0.080	1.08
		Right Tilted	0.164	0.165	0.063	0.063	0.46
		Left Cheek	0.637	0.221	0.335	0.241	1.43
		Left Tilted	0.332	0.134	0.169	0.108	0.74
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Right Cheek	0.613	0.320	0.086	0.080	1.10
		Right Tilted	0.164	0.404	0.063	0.063	0.69
		Left Cheek	0.637	0.295	0.335	0.241	1.51
		Left Tilted	0.332	0.350	0.169	0.108	0.96
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Right Cheek	0.613	0.364	0.086	0.080	1.14
		Right Tilted	0.164	0.236	0.063	0.063	0.53
		Left Cheek	0.637	0.332	0.335	0.241	1.55
		Left Tilted	0.332	0.252	0.169	0.108	0.86



FCC SAR Test Report

Report No. : FA4N1331

ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Right Cheek	0.613	0.291	0.086	0.080	1.07
		Right Tilted	0.164	0.179	0.063	0.063	0.47
		Left Cheek	0.637	0.327	0.335	0.241	1.54
		Left Tilted	0.332	0.237	0.169	0.108	0.85
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Right Cheek	0.613	0.605	0.086	0.080	1.38
		Right Tilted	0.164	0.589	0.063	0.063	0.88
		Left Cheek	0.637	0.351	0.335	0.241	1.56
		Left Tilted	0.332	0.628	0.169	0.108	1.24
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 7	Right Cheek	0.613	0.285	0.086	0.080	1.06
		Right Tilted	0.164	0.222	0.063	0.063	0.51
		Left Cheek	0.637	0.312	0.335	0.241	1.53
		Left Tilted	0.332	0.212	0.169	0.108	0.82

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+2+3+4 Summed 1g SAR (W/kg)
			WWAN	FR1	WLAN5GHz Ant 6	Bluetooth Ant 6	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Right Cheek	0.331	0.299	0.086	0.080	0.80
		Right Tilted	0.267	0.165	0.063	0.063	0.56
		Left Cheek	0.624	0.221	0.335	0.241	1.42
		Left Tilted	0.575	0.134	0.169	0.108	0.99
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Right Cheek	0.331	0.320	0.086	0.080	0.82
		Right Tilted	0.267	0.404	0.063	0.063	0.80
		Left Cheek	0.624	0.295	0.335	0.241	1.50
		Left Tilted	0.575	0.350	0.169	0.108	1.20
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Right Cheek	0.331	0.364	0.086	0.080	0.86
		Right Tilted	0.267	0.236	0.063	0.063	0.63
		Left Cheek	0.624	0.332	0.335	0.241	1.53
		Left Tilted	0.575	0.252	0.169	0.108	1.10
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Right Cheek	0.331	0.291	0.086	0.080	0.79
		Right Tilted	0.267	0.179	0.063	0.063	0.57
		Left Cheek	0.624	0.327	0.335	0.241	1.53
		Left Tilted	0.575	0.237	0.169	0.108	1.09
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Right Cheek	0.331	0.605	0.086	0.080	1.10
		Right Tilted	0.267	0.589	0.063	0.063	0.98
		Left Cheek	0.624	0.351	0.335	0.241	1.55
		Left Tilted	0.575	0.628	0.169	0.108	1.48
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Right Cheek	0.331	0.162	0.086	0.080	0.66
		Right Tilted	0.267	0.181	0.063	0.063	0.57
		Left Cheek	0.624	0.294	0.335	0.241	1.49
		Left Tilted	0.575	0.375	0.169	0.108	1.23



16.2 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	3	4	5	1+3	1+4	1+5	4+5
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands Ant 0	Front	0.359	0.196	0.211	0.115	0.56	0.57	0.47	0.33
	Back	0.725	0.248	0.542	0.152	0.97	1.27	0.88	0.69
	Left side					0.00	0.00	0.00	0.00
	Right side	0.469	0.263	0.555	0.211	0.73	1.02	0.68	0.77
	Top side		0.100	0.146	0.066	0.10	0.15	0.07	0.21
	Bottom side	0.368				0.37	0.37	0.37	0.00
ALL Bands Ant 1	Front	0.702	0.196	0.211	0.115	0.90	0.91	0.82	0.33
	Back	0.961	0.248	0.542	0.152	1.21	1.50	1.11	0.69
	Left side	0.967				0.97	0.97	0.97	0.00
	Right side		0.263	0.555	0.211	0.26	0.56	0.21	0.77
	Top side	0.192	0.100	0.146	0.066	0.29	0.34	0.26	0.21
	Bottom side					0.00	0.00	0.00	0.00
ALL Bands Ant 2	Front	0.523	0.196	0.211	0.115	0.72	0.73	0.64	0.33
	Back	0.957	0.248	0.542	0.152	1.21	1.50	1.11	0.69
	Left side	0.976				0.98	0.98	0.98	0.00
	Right side		0.263	0.555	0.211	0.26	0.56	0.21	0.77
	Top side		0.100	0.146	0.066	0.10	0.15	0.07	0.21
	Bottom side	0.577				0.58	0.58	0.58	0.00
ALL Bands Ant 3	Front	0.775	0.196	0.211	0.115	0.97	0.99	0.89	0.33
	Back	0.658	0.248	0.542	0.152	0.91	1.20	0.81	0.69
	Left side	0.905				0.91	0.91	0.91	0.00
	Right side		0.263	0.555	0.211	0.26	0.56	0.21	0.77
	Top side	0.474	0.100	0.146	0.066	0.57	0.62	0.54	0.21
	Bottom side					0.00	0.00	0.00	0.00
ALL Bands Ant 4	Front	0.522	0.196	0.211	0.115	0.72	0.73	0.64	0.33
	Back	0.979	0.248	0.542	0.152	1.23	1.52	1.13	0.69
	Left side	0.485				0.49	0.49	0.49	0.00
	Right side		0.263	0.555	0.211	0.26	0.56	0.21	0.77
	Top side	0.983	0.100	0.146	0.066	1.08	1.13	1.05	0.21
	Bottom side					0.00	0.00	0.00	0.00
ALL Bands Ant 5	Front	0.354	0.196	0.211	0.115	0.55	0.57	0.47	0.33
	Back	0.831	0.248	0.542	0.152	1.08	1.37	0.98	0.69
	Left side					0.00	0.00	0.00	0.00
	Right side	0.947	0.263	0.555	0.211	1.21	1.50	1.16	0.77
	Top side	0.120	0.100	0.146	0.066	0.22	0.27	0.19	0.21
	Bottom side					0.00	0.00	0.00	0.00
ALL Bands Ant 7	Front	0.374	0.196	0.211	0.115	0.57	0.59	0.49	0.33
	Back	0.932	0.248	0.542	0.152	1.18	1.47	1.08	0.69
	Left side					0.00	0.00	0.00	0.00
	Right side	0.545	0.263	0.555	0.211	0.81	1.10	0.76	0.77
	Top side	0.372	0.100	0.146	0.066	0.47	0.52	0.44	0.21
	Bottom side					0.00	0.00	0.00	0.00



WWAN Band	Exposure Position	1	3	4	1+3+4 Summed 1g SAR (W/kg)
		WWAN	WLAN5GHz Ant 6	Bluetooth Ant 6	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
ALL Bands Ant 0	Front	0.359	0.142	0.115	0.62
	Back	0.725	0.345	0.152	1.22
	Left side				0.00
	Right side	0.469	0.367	0.211	1.05
	Top side		0.100	0.066	0.17
	Bottom side	0.368			0.37
ALL Bands Ant 1	Front	0.702	0.142	0.115	0.96
	Back	0.961	0.345	0.152	1.46
	Left side	0.967			0.97
	Right side		0.367	0.211	0.58
	Top side	0.192	0.100	0.066	0.36
	Bottom side				0.00
ALL Bands Ant 2	Front	0.523	0.142	0.115	0.78
	Back	0.957	0.345	0.152	1.45
	Left side	0.976			0.98
	Right side		0.367	0.211	0.58
	Top side		0.100	0.066	0.17
	Bottom side	0.577			0.58
ALL Bands Ant 3	Front	0.775	0.142	0.115	1.03
	Back	0.658	0.345	0.152	1.16
	Left side	0.905			0.91
	Right side		0.367	0.211	0.58
	Top side	0.474	0.100	0.066	0.64
	Bottom side				0.00
ALL Bands Ant 4	Front	0.522	0.142	0.115	0.78
	Back	0.979	0.345	0.152	1.48
	Left side	0.485			0.49
	Right side		0.367	0.211	0.58
	Top side	0.983	0.100	0.066	1.15
	Bottom side				0.00
ALL Bands Ant 5	Front	0.354	0.142	0.115	0.61
	Back	0.831	0.345	0.152	1.33
	Left side				0.00
	Right side	0.947	0.367	0.211	1.53
	Top side	0.120	0.100	0.066	0.29
	Bottom side				0.00
ALL Bands Ant 7	Front	0.374	0.142	0.115	0.63
	Back	0.932	0.345	0.152	1.43
	Left side				0.00
	Right side	0.545	0.367	0.211	1.12
	Top side	0.372	0.100	0.066	0.54
	Bottom side				0.00



<ENDC>

WWAN Band	FR1 Band	Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)
			WWAN	FR1	
			1g SAR (W/kg)	1g SAR (W/kg)	
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Front	0.332	0.702	1.03
		Back	0.636	0.321	0.96
		Left side		0.468	0.47
		Right side	0.432		0.43
		Top side		0.192	0.19
		Bottom side	0.333		0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Front	0.332	0.516	0.85
		Back	0.636	0.295	0.93
		Left side		0.496	0.50
		Right side	0.432		0.43
		Top side			0.00
		Bottom side	0.333	0.577	0.91
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Front	0.332	0.251	0.58
		Back	0.636	0.217	0.85
		Left side		0.289	0.29
		Right side	0.432		0.43
		Top side		0.474	0.47
		Bottom side	0.333		0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Front	0.332	0.485	0.82
		Back	0.636	0.351	0.99
		Left side		0.462	0.46
		Right side	0.432		0.43
		Top side		0.315	0.32
		Bottom side	0.333		0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Front	0.332	0.271	0.60
		Back	0.636	0.268	0.90
		Left side			0.00
		Right side	0.432	0.285	0.72
		Top side		0.120	0.12
		Bottom side	0.333		0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Front	0.332	0.344	0.68
		Back	0.636	0.297	0.93
		Left side			0.00
		Right side	0.432	0.173	0.61
		Top side		0.372	0.37
		Bottom side	0.333		0.33
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Front	0.596	0.359	0.96
		Back	0.729	0.293	1.02
		Left side	0.955		0.96
		Right side		0.272	0.27
		Top side	0.191		0.19
		Bottom side		0.368	0.37
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 2	Front	0.596	0.516	1.11
		Back	0.729	0.295	1.02
		Left side	0.955	0.496	1.45
		Right side			0.00
		Top side	0.191		0.19
		Bottom side		0.577	0.58
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Front	0.596	0.251	0.85
		Back	0.729	0.217	0.95
		Left side	0.955	0.289	1.24



		Right side			0.00
		Top side	0.191	0.474	0.67
		Bottom side			0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Front	0.596	0.485	1.08
		Back	0.729	0.351	1.08
		Left side	0.955	0.462	1.42
		Right side			0.00
		Top side	0.191	0.315	0.51
		Bottom side			0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Front	0.596	0.271	0.87
		Back	0.729	0.268	1.00
		Left side	0.955		0.96
		Right side		0.285	0.29
		Top side	0.191	0.120	0.31
		Bottom side			0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 7	Front	0.596	0.344	0.94
		Back	0.729	0.297	1.03
		Left side	0.955		0.96
		Right side		0.173	0.17
		Top side	0.191	0.372	0.56
		Bottom side			0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Front	0.474	0.359	0.83
		Back	0.683	0.293	0.98
		Left side	0.973		0.97
		Right side		0.272	0.27
		Top side			0.00
		Bottom side	0.543	0.368	0.91
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Front	0.474	0.702	1.18
		Back	0.683	0.321	1.00
		Left side	0.973	0.468	1.44
		Right side			0.00
		Top side		0.192	0.19
		Bottom side	0.543		0.54
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Front	0.474	0.251	0.73
		Back	0.683	0.217	0.90
		Left side	0.973	0.289	1.26
		Right side			0.00
		Top side		0.474	0.47
		Bottom side	0.543		0.54
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 4	Front	0.474	0.485	0.96
		Back	0.683	0.351	1.03
		Left side	0.973	0.462	1.44
		Right side			0.00
		Top side		0.315	0.32
		Bottom side	0.543		0.54
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Front	0.474	0.271	0.75
		Back	0.683	0.268	0.95
		Left side	0.973		0.97
		Right side		0.285	0.29
		Top side		0.120	0.12
		Bottom side	0.543		0.54
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Front	0.474	0.344	0.82
		Back	0.683	0.297	0.98
		Left side	0.973		0.97
		Right side		0.173	0.17
		Top side		0.372	0.37



		Bottom side	0.543		0.54
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 0	Front	0.541	0.359	0.90
		Back	0.655	0.293	0.95
		Left side	0.439		0.44
		Right side		0.272	0.27
		Top side	0.316		0.32
		Bottom side		0.368	0.37
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Front	0.541	0.702	1.24
		Back	0.655	0.321	0.98
		Left side	0.439	0.468	0.91
		Right side			0.00
		Top side	0.316	0.192	0.51
		Bottom side			0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Front	0.541	0.516	1.06
		Back	0.655	0.295	0.95
		Left side	0.439	0.496	0.94
		Right side			0.00
		Top side	0.316		0.32
		Bottom side		0.577	0.58
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 4	Front	0.541	0.485	1.03
		Back	0.655	0.351	1.01
		Left side	0.439	0.462	0.90
		Right side			0.00
		Top side	0.316	0.315	0.63
		Bottom side			0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Front	0.541	0.271	0.81
		Back	0.655	0.268	0.92
		Left side	0.439		0.44
		Right side		0.285	0.29
		Top side	0.316	0.120	0.44
		Bottom side			0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Front	0.541	0.344	0.89
		Back	0.655	0.297	0.95
		Left side	0.439		0.44
		Right side		0.173	0.17
		Top side	0.316	0.372	0.69
		Bottom side			0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 0	Front	0.522	0.359	0.88
		Back	0.645	0.293	0.94
		Left side	0.485		0.49
		Right side		0.272	0.27
		Top side	0.908		0.91
		Bottom side		0.368	0.37
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Front	0.522	0.702	1.22
		Back	0.645	0.321	0.97
		Left side	0.485	0.468	0.95
		Right side			0.00
		Top side	0.908	0.192	1.10
		Bottom side			0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Front	0.522	0.516	1.04
		Back	0.645	0.295	0.94
		Left side	0.485	0.496	0.98
		Right side			0.00
		Top side	0.908		0.91
		Bottom side		0.577	0.58
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Front	0.522	0.251	0.77



		Back	0.645	0.217	0.86
		Left side	0.485	0.289	0.77
		Right side			0.00
		Top side	0.908	0.474	1.38
		Bottom side			0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Front	0.522	0.271	0.79
		Back	0.645	0.268	0.91
		Left side	0.485		0.49
		Right side		0.285	0.29
		Top side	0.908	0.120	1.03
		Bottom side			0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Front	0.522	0.344	0.87
		Back	0.645	0.297	0.94
		Left side	0.485		0.49
		Right side		0.173	0.17
		Top side	0.908	0.372	1.28
		Bottom side			0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Front	0.354	0.359	0.71
		Back	0.505	0.293	0.80
		Left side			0.00
		Right side	0.935	0.272	1.21
		Top side	0.088		0.09
		Bottom side		0.368	0.37
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Front	0.354	0.702	1.06
		Back	0.505	0.321	0.83
		Left side		0.468	0.47
		Right side	0.935		0.94
		Top side	0.088	0.192	0.28
		Bottom side			0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Front	0.354	0.516	0.87
		Back	0.505	0.295	0.80
		Left side		0.496	0.50
		Right side	0.935		0.94
		Top side	0.088		0.09
		Bottom side		0.577	0.58
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Front	0.354	0.251	0.61
		Back	0.505	0.217	0.72
		Left side		0.289	0.29
		Right side	0.935		0.94
		Top side	0.088	0.474	0.56
		Bottom side			0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Front	0.354	0.485	0.84
		Back	0.505	0.351	0.86
		Left side		0.462	0.46
		Right side	0.935		0.94
		Top side	0.088	0.315	0.40
		Bottom side			0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 7	Front	0.354	0.344	0.70
		Back	0.505	0.297	0.80
		Left side			0.00
		Right side	0.935	0.173	1.11
		Top side	0.088	0.372	0.46
		Bottom side			0.00



WWAN Band	FR1 Band	Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)
			WWAN	FR1	
			1g SAR (W/kg)	1g SAR (W/kg)	
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Front	0.374	0.359	0.73
		Back	0.624	0.293	0.92
		Left side			0.00
		Right side	0.422	0.272	0.69
		Top side	0.353		0.35
		Bottom side		0.368	0.37
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Front	0.374	0.702	1.08
		Back	0.624	0.321	0.95
		Left side		0.468	0.47
		Right side	0.422		0.42
		Top side	0.353	0.192	0.55
		Bottom side			0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Front	0.374	0.516	0.89
		Back	0.624	0.295	0.92
		Left side		0.496	0.50
		Right side	0.422		0.42
		Top side	0.353		0.35
		Bottom side		0.577	0.58
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Front	0.374	0.251	0.63
		Back	0.624	0.217	0.84
		Left side		0.289	0.29
		Right side	0.422		0.42
		Top side	0.353	0.474	0.83
		Bottom side			0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Front	0.374	0.485	0.86
		Back	0.624	0.351	0.98
		Left side		0.462	0.46
		Right side	0.422		0.42
		Top side	0.353	0.315	0.67
		Bottom side			0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Front	0.374	0.271	0.65
		Back	0.624	0.268	0.89
		Left side			0.00
		Right side	0.422	0.285	0.71
		Top side	0.353	0.120	0.47
		Bottom side			0.00

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Front	0.332	0.702	0.196	0.211	0.115	1.23	1.25	1.15
		Back	0.636	0.321	0.248	0.542	0.152	1.21	1.50	1.11
		Left side		0.468				0.47	0.47	0.47
		Right side	0.432		0.263	0.555	0.211	0.70	0.99	0.64
		Top side		0.192	0.100	0.146	0.066	0.29	0.34	0.26
		Bottom side	0.333					0.33	0.33	0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Front	0.332	0.516	0.196	0.211	0.115	1.04	1.06	0.96
		Back	0.636	0.295	0.248	0.542	0.152	1.18	1.47	1.08
		Left side		0.496				0.50	0.50	0.50
		Right side	0.432		0.263	0.555	0.211	0.70	0.99	0.64
		Top side			0.100	0.146	0.066	0.10	0.15	0.07
		Bottom side								



FCC SAR Test Report

Report No. : FA4N1331

		Bottom side	0.333	0.577				0.91	0.91	0.91
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Front	0.332	0.251	0.196	0.211	0.115	0.78	0.79	0.70
		Back	0.636	0.217	0.248	0.542	0.152	1.10	1.40	1.01
		Left side		0.289				0.29	0.29	0.29
		Right side	0.432		0.263	0.555	0.211	0.70	0.99	0.64
		Top side		0.474	0.100	0.146	0.066	0.57	0.62	0.54
		Bottom side	0.333					0.33	0.33	0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Front	0.332	0.485	0.196	0.211	0.115	1.01	1.03	0.93
		Back	0.636	0.351	0.248	0.542	0.152	1.24	1.53	1.14
		Left side		0.462				0.46	0.46	0.46
		Right side	0.432		0.263	0.555	0.211	0.70	0.99	0.64
		Top side		0.315	0.100	0.146	0.066	0.42	0.46	0.38
		Bottom side	0.333					0.33	0.33	0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Front	0.332	0.271	0.196	0.211	0.115	0.80	0.81	0.72
		Back	0.636	0.268	0.248	0.542	0.152	1.15	1.45	1.06
		Left side						0.00	0.00	0.00
		Right side	0.432	0.285	0.263	0.555	0.211	0.98	1.27	0.93
		Top side		0.120	0.100	0.146	0.066	0.22	0.27	0.19
		Bottom side	0.333					0.33	0.33	0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Front	0.332	0.344	0.196	0.211	0.115	0.87	0.89	0.79
		Back	0.636	0.297	0.248	0.542	0.152	1.18	1.48	1.09
		Left side						0.00	0.00	0.00
		Right side	0.432	0.173	0.263	0.555	0.211	0.87	1.16	0.82
		Top side		0.372	0.100	0.146	0.066	0.47	0.52	0.44
		Bottom side	0.333					0.33	0.33	0.33
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Front	0.596	0.359	0.196	0.211	0.115	1.15	1.17	1.07
		Back	0.682	0.293	0.248	0.542	0.152	1.22	1.52	1.13
		Left side	0.955					0.96	0.96	0.96
		Right side		0.272	0.263	0.555	0.211	0.54	0.83	0.48
		Top side	0.191		0.100	0.146	0.066	0.29	0.34	0.26
		Bottom side		0.368				0.37	0.37	0.37
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 2	Front	0.596	0.516	0.196	0.211	0.115	1.31	1.32	1.23
		Back	0.682	0.295	0.248	0.542	0.152	1.23	1.52	1.13
		Left side	0.955	0.496				1.45	1.45	1.45
		Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side	0.191		0.100	0.146	0.066	0.29	0.34	0.26
		Bottom side		0.577				0.58	0.58	0.58
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Front	0.596	0.251	0.196	0.211	0.115	1.04	1.06	0.96
		Back	0.682	0.217	0.248	0.542	0.152	1.15	1.44	1.05
		Left side	0.955	0.289				1.24	1.24	1.24
		Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side	0.191	0.474	0.100	0.146	0.066	0.77	0.81	0.73
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Front	0.596	0.485	0.196	0.211	0.115	1.28	1.29	1.20
		Back	0.682	0.351	0.248	0.542	0.152	1.28	1.58	1.19
		Left side	0.955	0.462				1.42	1.42	1.42
		Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side	0.191	0.315	0.100	0.146	0.066	0.61	0.65	0.57
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Front	0.596	0.271	0.196	0.211	0.115	1.06	1.08	0.98
		Back	0.682	0.268	0.248	0.542	0.152	1.20	1.49	1.10
		Left side	0.955					0.96	0.96	0.96
		Right side		0.285	0.263	0.555	0.211	0.55	0.84	0.50
		Top side	0.191	0.120	0.100	0.146	0.066	0.41	0.46	0.38
		Bottom side						0.00	0.00	0.00
ALL Bands	ALL Bands	Front	0.596	0.344	0.196	0.211	0.115	1.14	1.15	1.06



FCC SAR Test Report

Report No. : FA4N1331

LTE Ant 1	FR1 Ant 7	Back	0.682	0.297	0.248	0.542	0.152	1.23	1.52	1.13
		Left side	0.955					0.96	0.96	0.96
		Right side		0.173	0.263	0.555	0.211	0.44	0.73	0.38
		Top side	0.191	0.372	0.100	0.146	0.066	0.66	0.71	0.63
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Front	0.474	0.359	0.196	0.211	0.115	1.03	1.04	0.95
		Back	0.683	0.293	0.248	0.542	0.152	1.22	1.52	1.13
		Left side	0.973					0.97	0.97	0.97
		Right side		0.272	0.263	0.555	0.211	0.54	0.83	0.48
		Top side			0.100	0.146	0.066	0.10	0.15	0.07
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Bottom side	0.543	0.368				0.91	0.91	0.91
		Front	0.474	0.702	0.196	0.211	0.115	1.37	1.39	1.29
		Back	0.683	0.321	0.248	0.542	0.152	1.25	1.55	1.16
		Left side	0.973	0.468				1.44	1.44	1.44
		Right side			0.263	0.555	0.211	0.26	0.56	0.21
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Top side		0.192	0.100	0.146	0.066	0.29	0.34	0.26
		Bottom side	0.543					0.54	0.54	0.54
		Front	0.474	0.251	0.196	0.211	0.115	0.92	0.94	0.84
		Back	0.683	0.217	0.248	0.542	0.152	1.15	1.44	1.05
		Left side	0.973	0.289				1.26	1.26	1.26
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 4	Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side		0.474	0.100	0.146	0.066	0.57	0.62	0.54
		Bottom side	0.543					0.54	0.54	0.54
		Front	0.474	0.485	0.196	0.211	0.115	1.16	1.17	1.07
		Back	0.683	0.351	0.248	0.542	0.152	1.28	1.58	1.19
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Left side	0.973	0.462				1.44	1.44	1.44
		Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side		0.315	0.100	0.146	0.066	0.42	0.46	0.38
		Bottom side	0.543					0.54	0.54	0.54
		Front	0.474	0.271	0.196	0.211	0.115	0.94	0.96	0.86
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Back	0.683	0.268	0.248	0.542	0.152	1.20	1.49	1.10
		Left side	0.973					0.97	0.97	0.97
		Right side		0.285	0.263	0.555	0.211	0.55	0.84	0.50
		Top side		0.120	0.100	0.146	0.066	0.22	0.27	0.19
		Bottom side	0.543					0.54	0.54	0.54
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Front	0.474	0.344	0.196	0.211	0.115	1.01	1.03	0.93
		Back	0.683	0.297	0.248	0.542	0.152	1.23	1.52	1.13
		Left side	0.973					0.97	0.97	0.97
		Right side		0.173	0.263	0.555	0.211	0.44	0.73	0.38
		Top side		0.372	0.100	0.146	0.066	0.47	0.52	0.44
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Bottom side	0.543					0.54	0.54	0.54
		Front	0.541	0.359	0.196	0.211	0.115	1.10	1.11	1.02
		Back	0.655	0.293	0.248	0.542	0.152	1.20	1.49	1.10
		Left side	0.439					0.44	0.44	0.44
		Right side		0.272	0.263	0.555	0.211	0.54	0.83	0.48
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Top side	0.316		0.100	0.146	0.066	0.42	0.46	0.38
		Bottom side		0.368				0.37	0.37	0.37
		Front	0.541	0.702	0.196	0.211	0.115	1.44	1.45	1.36
		Back	0.655	0.321	0.248	0.542	0.152	1.22	1.52	1.13
		Left side	0.439	0.468				0.91	0.91	0.91
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side	0.316	0.192	0.100	0.146	0.066	0.61	0.65	0.57
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Front	0.541	0.516	0.196	0.211	0.115	1.25	1.27	1.17
		Back	0.655	0.295	0.248	0.542	0.152	1.20	1.49	1.10
		Left side	0.439	0.496				0.94	0.94	0.94



FCC SAR Test Report

Report No. : FA4N1331

		Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side	0.316		0.100	0.146	0.066	0.42	0.46	0.38
		Bottom side		0.577				0.58	0.58	0.58
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 4	Front	0.541	0.485	0.196	0.211	0.115	1.22	1.24	1.14
		Back	0.655	0.351	0.248	0.542	0.152	1.25	1.55	1.16
		Left side	0.439	0.462				0.90	0.90	0.90
		Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side	0.316	0.315	0.100	0.146	0.066	0.73	0.78	0.70
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Front	0.541	0.271	0.196	0.211	0.115	1.01	1.02	0.93
		Back	0.655	0.268	0.248	0.542	0.152	1.17	1.47	1.08
		Left side	0.439					0.44	0.44	0.44
		Right side		0.285	0.263	0.555	0.211	0.55	0.84	0.50
		Top side	0.316	0.120	0.100	0.146	0.066	0.54	0.58	0.50
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Front	0.541	0.344	0.196	0.211	0.115	1.08	1.10	1.00
		Back	0.655	0.297	0.248	0.542	0.152	1.20	1.49	1.10
		Left side	0.439					0.44	0.44	0.44
		Right side		0.173	0.263	0.555	0.211	0.44	0.73	0.38
		Top side	0.316	0.372	0.100	0.146	0.066	0.79	0.83	0.75
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 0	Front	0.522	0.359	0.196	0.211	0.115	1.08	1.09	1.00
		Back	0.645	0.293	0.248	0.542	0.152	1.19	1.48	1.09
		Left side	0.485					0.49	0.49	0.49
		Right side		0.272	0.263	0.555	0.211	0.54	0.83	0.48
		Top side	0.908		0.100	0.146	0.066	1.01	1.05	0.97
		Bottom side		0.368				0.37	0.37	0.37
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Front	0.522	0.702	0.196	0.211	0.115	1.42	1.44	1.34
		Back	0.645	0.321	0.248	0.542	0.152	1.21	1.51	1.12
		Left side	0.485	0.468				0.95	0.95	0.95
		Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side	0.908	0.192	0.100	0.146	0.066	1.20	1.25	1.17
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Front	0.522	0.516	0.196	0.211	0.115	1.23	1.25	1.15
		Back	0.645	0.295	0.248	0.542	0.152	1.19	1.48	1.09
		Left side	0.485	0.496				0.98	0.98	0.98
		Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side	0.908		0.100	0.146	0.066	1.01	1.05	0.97
		Bottom side		0.577				0.58	0.58	0.58
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Front	0.522	0.251	0.196	0.211	0.115	0.97	0.98	0.89
		Back	0.645	0.217	0.248	0.542	0.152	1.11	1.40	1.01
		Left side	0.485	0.289				0.77	0.77	0.77
		Right side			0.263	0.555	0.211	0.26	0.56	0.21
		Top side	0.908	0.474	0.100	0.146	0.066	1.48	1.53	1.45
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Front	0.522	0.271	0.196	0.211	0.115	0.99	1.00	0.91
		Back	0.645	0.268	0.248	0.542	0.152	1.16	1.46	1.07
		Left side	0.485					0.49	0.49	0.49
		Right side		0.285	0.263	0.555	0.211	0.55	0.84	0.50
		Top side	0.908	0.120	0.100	0.146	0.066	1.13	1.17	1.09
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Front	0.522	0.344	0.196	0.211	0.115	1.06	1.08	0.98
		Back	0.645	0.297	0.248	0.542	0.152	1.19	1.48	1.09
		Left side	0.485					0.49	0.49	0.49
		Right side		0.173	0.263	0.555	0.211	0.44	0.73	0.38
		Top side	0.908	0.372	0.100	0.146	0.066	1.38	1.43	1.35



FCC SAR Test Report

Report No. : FA4N1331

		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Front	0.354	0.359	0.196	0.211	0.115	0.91	0.92	0.83
		Back	0.505	0.293	0.248	0.542	0.152	1.05	1.34	0.95
		Left side						0.00	0.00	0.00
		Right side	0.627	0.272	0.263	0.555	0.211	1.16	1.45	1.11
		Top side	0.088		0.100	0.146	0.066	0.19	0.23	0.15
		Bottom side		0.368				0.37	0.37	0.37
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Front	0.354	0.702	0.196	0.211	0.115	1.25	1.27	1.17
		Back	0.505	0.321	0.248	0.542	0.152	1.07	1.37	0.98
		Left side		0.468				0.47	0.47	0.47
		Right side	0.627		0.263	0.555	0.211	0.89	1.18	0.84
		Top side	0.088	0.192	0.100	0.146	0.066	0.38	0.43	0.35
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Front	0.354	0.516	0.196	0.211	0.115	1.07	1.08	0.99
		Back	0.505	0.295	0.248	0.542	0.152	1.05	1.34	0.95
		Left side		0.496				0.50	0.50	0.50
		Right side	0.627		0.263	0.555	0.211	0.89	1.18	0.84
		Top side	0.088		0.100	0.146	0.066	0.19	0.23	0.15
		Bottom side		0.577				0.58	0.58	0.58
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Front	0.354	0.251	0.196	0.211	0.115	0.80	0.82	0.72
		Back	0.505	0.217	0.248	0.542	0.152	0.97	1.26	0.87
		Left side		0.289				0.29	0.29	0.29
		Right side	0.627		0.263	0.555	0.211	0.89	1.18	0.84
		Top side	0.088	0.474	0.100	0.146	0.066	0.66	0.71	0.63
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Front	0.354	0.485	0.196	0.211	0.115	1.04	1.05	0.95
		Back	0.505	0.351	0.248	0.542	0.152	1.10	1.40	1.01
		Left side		0.462				0.46	0.46	0.46
		Right side	0.627		0.263	0.555	0.211	0.89	1.18	0.84
		Top side	0.088	0.315	0.100	0.146	0.066	0.50	0.55	0.47
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 7	Front	0.354	0.344	0.196	0.211	0.115	0.89	0.91	0.81
		Back	0.505	0.297	0.248	0.542	0.152	1.05	1.34	0.95
		Left side						0.00	0.00	0.00
		Right side	0.627	0.173	0.263	0.555	0.211	1.06	1.36	1.01
		Top side	0.088	0.372	0.100	0.146	0.066	0.56	0.61	0.53
		Bottom side						0.00	0.00	0.00



WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Front	0.374	0.359	0.196	0.211	0.115	0.93	0.94	0.85
		Back	0.624	0.293	0.248	0.542	0.152	1.17	1.46	1.07
		Left side						0.00	0.00	0.00
		Right side	0.422	0.272	0.263	0.555	0.211	0.96	1.25	0.91
		Top side	0.353		0.100	0.146	0.066	0.45	0.50	0.42
		Bottom side		0.368				0.37	0.37	0.37
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Front	0.374	0.702	0.196	0.211	0.115	1.27	1.29	1.19
		Back	0.624	0.321	0.248	0.542	0.152	1.19	1.49	1.10
		Left side		0.468				0.47	0.47	0.47
		Right side	0.422		0.263	0.555	0.211	0.69	0.98	0.63
		Top side	0.353	0.192	0.100	0.146	0.066	0.65	0.69	0.61
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Front	0.374	0.516	0.196	0.211	0.115	1.09	1.10	1.01
		Back	0.624	0.295	0.248	0.542	0.152	1.17	1.46	1.07
		Left side		0.496				0.50	0.50	0.50
		Right side	0.422		0.263	0.555	0.211	0.69	0.98	0.63
		Top side	0.353		0.100	0.146	0.066	0.45	0.50	0.42
		Bottom side		0.577				0.58	0.58	0.58
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Front	0.374	0.251	0.196	0.211	0.115	0.82	0.84	0.74
		Back	0.624	0.217	0.248	0.542	0.152	1.09	1.38	0.99
		Left side		0.289				0.29	0.29	0.29
		Right side	0.422		0.263	0.555	0.211	0.69	0.98	0.63
		Top side	0.353	0.474	0.100	0.146	0.066	0.93	0.97	0.89
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Front	0.374	0.485	0.196	0.211	0.115	1.06	1.07	0.97
		Back	0.624	0.351	0.248	0.542	0.152	1.22	1.52	1.13
		Left side		0.462				0.46	0.46	0.46
		Right side	0.422		0.263	0.555	0.211	0.69	0.98	0.63
		Top side	0.353	0.315	0.100	0.146	0.066	0.77	0.81	0.73
		Bottom side						0.00	0.00	0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Front	0.374	0.271	0.196	0.211	0.115	0.84	0.86	0.76
		Back	0.624	0.268	0.248	0.542	0.152	1.14	1.43	1.04
		Left side						0.00	0.00	0.00
		Right side	0.422	0.285	0.263	0.555	0.211	0.97	1.26	0.92
		Top side	0.353	0.120	0.100	0.146	0.066	0.57	0.62	0.54
		Bottom side						0.00	0.00	0.00

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+2+3+4
			WWAN	FR1	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Front	0.332	0.702	0.142	0.115	1.29
		Back	0.636	0.321	0.345	0.152	1.45
		Left side		0.468			0.47
		Right side	0.432		0.367	0.211	1.01
		Top side		0.192	0.100	0.066	0.36
		Bottom side	0.333				0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Front	0.332	0.516	0.142	0.115	1.11
		Back	0.636	0.295	0.345	0.152	1.43
		Left side		0.496			0.50
		Right side	0.432		0.367	0.211	1.01



FCC SAR Test Report

Report No. : FA4N1331

		Top side			0.100	0.066	0.17
		Bottom side	0.333	0.577			0.91
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Front	0.332	0.251	0.142	0.115	0.84
		Back	0.636	0.217	0.345	0.152	1.35
		Left side		0.289			0.29
		Right side	0.432		0.367	0.211	1.01
		Top side		0.474	0.100	0.066	0.64
		Bottom side	0.333				0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Front	0.332	0.485	0.142	0.115	1.07
		Back	0.636	0.351	0.345	0.152	1.48
		Left side		0.462			0.46
		Right side	0.432		0.367	0.211	1.01
		Top side		0.315	0.100	0.066	0.48
		Bottom side	0.333				0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Front	0.332	0.271	0.142	0.115	0.86
		Back	0.636	0.268	0.345	0.152	1.40
		Left side					0.00
		Right side	0.432	0.285	0.367	0.211	1.30
		Top side		0.120	0.100	0.066	0.29
		Bottom side	0.333				0.33
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Front	0.332	0.344	0.142	0.115	0.93
		Back	0.636	0.297	0.345	0.152	1.43
		Left side					0.00
		Right side	0.432	0.173	0.367	0.211	1.18
		Top side		0.372	0.100	0.066	0.54
		Bottom side	0.333				0.33
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Front	0.596	0.359	0.142	0.115	1.21
		Back	0.682	0.293	0.345	0.152	1.47
		Left side	0.955				0.96
		Right side		0.272	0.367	0.211	0.85
		Top side	0.191		0.100	0.066	0.36
		Bottom side		0.368			0.37
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 2	Front	0.596	0.516	0.142	0.115	1.37
		Back	0.682	0.295	0.345	0.152	1.47
		Left side	0.955	0.496			1.45
		Right side			0.367	0.211	0.58
		Top side	0.191		0.100	0.066	0.36
		Bottom side		0.577			0.58
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Front	0.596	0.251	0.142	0.115	1.10
		Back	0.682	0.217	0.345	0.152	1.40
		Left side	0.955	0.289			1.24
		Right side			0.367	0.211	0.58
		Top side	0.191	0.474	0.100	0.066	0.83
		Bottom side					0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Front	0.596	0.485	0.142	0.115	1.34
		Back	0.682	0.351	0.345	0.152	1.53
		Left side	0.955	0.462			1.42
		Right side			0.367	0.211	0.58
		Top side	0.191	0.315	0.100	0.066	0.67
		Bottom side					0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Front	0.596	0.271	0.142	0.115	1.12
		Back	0.682	0.268	0.345	0.152	1.45
		Left side	0.955				0.96
		Right side		0.285	0.367	0.211	0.86
		Top side	0.191	0.120	0.100	0.066	0.48
		Bottom side					0.00



FCC SAR Test Report

Report No. : FA4N1331

ALL Bands LTE Ant 1	ALL Bands FR1 Ant 7	Front	0.596	0.344	0.142	0.115	1.20
		Back	0.682	0.297	0.345	0.152	1.48
		Left side	0.955				0.96
		Right side		0.173	0.367	0.211	0.75
		Top side	0.191	0.372	0.100	0.066	0.73
		Bottom side					0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Front	0.474	0.359	0.142	0.115	1.09
		Back	0.683	0.293	0.345	0.152	1.47
		Left side	0.973				0.97
		Right side		0.272	0.367	0.211	0.85
		Top side			0.100	0.066	0.17
		Bottom side	0.543	0.368			0.91
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Front	0.474	0.702	0.142	0.115	1.43
		Back	0.683	0.321	0.345	0.152	1.50
		Left side	0.973	0.468			1.44
		Right side			0.367	0.211	0.58
		Top side		0.192	0.100	0.066	0.36
		Bottom side	0.543				0.54
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Front	0.474	0.251	0.142	0.115	0.98
		Back	0.683	0.217	0.345	0.152	1.40
		Left side	0.973	0.289			1.26
		Right side			0.367	0.211	0.58
		Top side		0.474	0.100	0.066	0.64
		Bottom side	0.543				0.54
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 4	Front	0.474	0.485	0.142	0.115	1.22
		Back	0.683	0.351	0.345	0.152	1.53
		Left side	0.973	0.462			1.44
		Right side			0.367	0.211	0.58
		Top side		0.315	0.100	0.066	0.48
		Bottom side	0.543				0.54
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Front	0.474	0.271	0.142	0.115	1.00
		Back	0.683	0.268	0.345	0.152	1.45
		Left side	0.973				0.97
		Right side		0.285	0.367	0.211	0.86
		Top side		0.120	0.100	0.066	0.29
		Bottom side	0.543				0.54
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Front	0.474	0.344	0.142	0.115	1.08
		Back	0.683	0.297	0.345	0.152	1.48
		Left side	0.973				0.97
		Right side		0.173	0.367	0.211	0.75
		Top side		0.372	0.100	0.066	0.54
		Bottom side	0.543				0.54
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 0	Front	0.541	0.359	0.142	0.115	1.16
		Back	0.655	0.293	0.345	0.152	1.45
		Left side	0.439				0.44
		Right side		0.272	0.367	0.211	0.85
		Top side	0.316		0.100	0.066	0.48
		Bottom side		0.368			0.37
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Front	0.541	0.702	0.142	0.115	1.50
		Back	0.655	0.321	0.345	0.152	1.47
		Left side	0.439	0.468			0.91
		Right side			0.367	0.211	0.58
		Top side	0.316	0.192	0.100	0.066	0.67
		Bottom side					0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Front	0.541	0.516	0.142	0.115	1.31
		Back	0.655	0.295	0.345	0.152	1.45



		Left side	0.439	0.496			0.94
		Right side			0.367	0.211	0.58
		Top side	0.316		0.100	0.066	0.48
		Bottom side		0.577			0.58
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 4	Front	0.541	0.485	0.142	0.115	1.28
		Back	0.655	0.351	0.345	0.152	1.50
		Left side	0.439	0.462			0.90
		Right side			0.367	0.211	0.58
		Top side	0.316	0.315	0.100	0.066	0.80
		Bottom side					0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Front	0.541	0.271	0.142	0.115	1.07
		Back	0.655	0.268	0.345	0.152	1.42
		Left side	0.439				0.44
		Right side		0.285	0.367	0.211	0.86
		Top side	0.316	0.120	0.100	0.066	0.60
		Bottom side					0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Front	0.541	0.344	0.142	0.115	1.14
		Back	0.655	0.297	0.345	0.152	1.45
		Left side	0.439				0.44
		Right side		0.173	0.367	0.211	0.75
		Top side	0.316	0.372	0.100	0.066	0.85
		Bottom side					0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 0	Front	0.522	0.359	0.142	0.115	1.14
		Back	0.645	0.293	0.345	0.152	1.44
		Left side	0.485				0.49
		Right side		0.272	0.367	0.211	0.85
		Top side	0.908		0.100	0.066	1.07
		Bottom side		0.368			0.37
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Front	0.522	0.702	0.142	0.115	1.48
		Back	0.645	0.321	0.345	0.152	1.46
		Left side	0.485	0.468			0.95
		Right side			0.367	0.211	0.58
		Top side	0.908	0.192	0.100	0.066	1.27
		Bottom side					0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Front	0.522	0.516	0.142	0.115	1.30
		Back	0.645	0.295	0.345	0.152	1.44
		Left side	0.485	0.496			0.98
		Right side			0.367	0.211	0.58
		Top side	0.908		0.100	0.066	1.07
		Bottom side		0.577			0.58
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Front	0.522	0.251	0.142	0.115	1.03
		Back	0.645	0.217	0.345	0.152	1.36
		Left side	0.485	0.289			0.77
		Right side			0.367	0.211	0.58
		Top side	0.908	0.474	0.100	0.066	1.55
		Bottom side					0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Front	0.522	0.271	0.142	0.115	1.05
		Back	0.645	0.268	0.345	0.152	1.41
		Left side	0.485				0.49
		Right side		0.285	0.367	0.211	0.86
		Top side	0.908	0.120	0.100	0.066	1.19
		Bottom side					0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Front	0.522	0.344	0.142	0.115	1.12
		Back	0.645	0.297	0.345	0.152	1.44
		Left side	0.485				0.49
		Right side		0.173	0.367	0.211	0.75



FCC SAR Test Report

Report No. : FA4N1331

		Top side	0.908	0.372	0.100	0.066	1.45
		Bottom side					0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Front	0.354	0.359	0.142	0.115	0.97
		Back	0.505	0.293	0.345	0.152	1.30
		Left side					0.00
		Right side	0.627	0.272	0.367	0.211	1.48
		Top side	0.088		0.100	0.066	0.25
		Bottom side		0.368			0.37
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Front	0.354	0.702	0.142	0.115	1.31
		Back	0.505	0.321	0.345	0.152	1.32
		Left side		0.468			0.47
		Right side	0.627		0.367	0.211	1.21
		Top side	0.088	0.192	0.100	0.066	0.45
		Bottom side					0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Front	0.354	0.516	0.142	0.115	1.13
		Back	0.505	0.295	0.345	0.152	1.30
		Left side		0.496			0.50
		Right side	0.627		0.367	0.211	1.21
		Top side	0.088		0.100	0.066	0.25
		Bottom side		0.577			0.58
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Front	0.354	0.251	0.142	0.115	0.86
		Back	0.505	0.217	0.345	0.152	1.22
		Left side		0.289			0.29
		Right side	0.627		0.367	0.211	1.21
		Top side	0.088	0.474	0.100	0.066	0.73
		Bottom side					0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Front	0.354	0.485	0.142	0.115	1.10
		Back	0.505	0.351	0.345	0.152	1.35
		Left side		0.462			0.46
		Right side	0.627		0.367	0.211	1.21
		Top side	0.088	0.315	0.100	0.066	0.57
		Bottom side					0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 7	Front	0.354	0.344	0.142	0.115	0.96
		Back	0.505	0.297	0.345	0.152	1.30
		Left side					0.00
		Right side	0.627	0.173	0.367	0.211	1.38
		Top side	0.088	0.372	0.100	0.066	0.63
		Bottom side					0.00



WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+2+3+4 Summed 1g SAR (W/kg)
			WWAN	FR1	WLAN5GHz Ant 6	Bluetooth Ant 6	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Front	0.374	0.359	0.142	0.115	0.99
		Back	0.624	0.293	0.345	0.152	1.41
		Left side					0.00
		Right side	0.422	0.272	0.367	0.211	1.27
		Top side	0.353		0.100	0.066	0.52
		Bottom side		0.368			0.37
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Front	0.374	0.702	0.142	0.115	1.33
		Back	0.624	0.321	0.345	0.152	1.44
		Left side		0.468			0.47
		Right side	0.422		0.367	0.211	1.00
		Top side	0.353	0.192	0.100	0.066	0.71
		Bottom side					0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Front	0.374	0.516	0.142	0.115	1.15
		Back	0.624	0.295	0.345	0.152	1.42
		Left side		0.496			0.50
		Right side	0.422		0.367	0.211	1.00
		Top side	0.353		0.100	0.066	0.52
		Bottom side		0.577			0.58
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Front	0.374	0.251	0.142	0.115	0.88
		Back	0.624	0.217	0.345	0.152	1.34
		Left side		0.289			0.29
		Right side	0.422		0.367	0.211	1.00
		Top side	0.353	0.474	0.100	0.066	0.99
		Bottom side					0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Front	0.374	0.485	0.142	0.115	1.12
		Back	0.624	0.351	0.345	0.152	1.47
		Left side		0.462			0.46
		Right side	0.422		0.367	0.211	1.00
		Top side	0.353	0.315	0.100	0.066	0.83
		Bottom side					0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Front	0.374	0.271	0.142	0.115	0.90
		Back	0.624	0.268	0.345	0.152	1.39
		Left side					0.00
		Right side	0.422	0.285	0.367	0.211	1.29
		Top side	0.353	0.120	0.100	0.066	0.64
		Bottom side					0.00



16.3 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	3	4	5	1+3	1+4	1+5	4+5
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands Ant 0	Front	0.224	0.105	0.311	0.059	0.33	0.54	0.28	0.37
	Back	0.376	0.123	0.554	0.062	0.50	0.93	0.44	0.62
ALL Bands Ant 1	Front	0.785	0.105	0.311	0.059	0.89	1.10	0.84	0.37
	Back	0.937	0.123	0.554	0.062	1.06	1.49	1.00	0.62
ALL Bands Ant 2	Front	0.356	0.105	0.311	0.059	0.46	0.67	0.42	0.37
	Back	0.553	0.123	0.554	0.062	0.68	1.11	0.62	0.62
ALL Bands Ant 3	Front	0.415	0.105	0.311	0.059	0.52	0.73	0.47	0.37
	Back	0.373	0.123	0.554	0.062	0.50	0.93	0.44	0.62
ALL Bands Ant 4	Front	0.684	0.105	0.311	0.059	0.79	1.00	0.74	0.37
	Back	0.948	0.123	0.554	0.062	1.07	1.50	1.01	0.62
ALL Bands Ant 5	Front	0.199	0.105	0.311	0.059	0.30	0.51	0.26	0.37
	Back	0.472	0.123	0.554	0.062	0.60	1.03	0.53	0.62
ALL Bands Ant 7	Front	0.472	0.105	0.311	0.059	0.58	0.78	0.53	0.37
	Back	0.725	0.123	0.554	0.062	0.85	1.28	0.79	0.62

WWAN Band	Exposure Position	1	3	4	1+3+4
		WWAN	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands Ant 0	Front	0.224	0.311	0.059	0.59
	Back	0.376	0.554	0.062	0.99
ALL Bands Ant 1	Front	0.785	0.311	0.059	1.16
	Back	0.937	0.554	0.062	1.55
ALL Bands Ant 2	Front	0.356	0.311	0.059	0.73
	Back	0.553	0.554	0.062	1.17
ALL Bands Ant 3	Front	0.415	0.311	0.059	0.79
	Back	0.373	0.554	0.062	0.99
ALL Bands Ant 4	Front	0.684	0.311	0.059	1.05
	Back	0.948	0.554	0.062	1.56
ALL Bands Ant 5	Front	0.199	0.311	0.059	0.57
	Back	0.472	0.554	0.062	1.09
ALL Bands Ant 7	Front	0.472	0.311	0.059	0.84
	Back	0.725	0.554	0.062	1.34

<ENDC>

WWAN Band	FR1 Band	Exposure Position	1	2	1+2
			WWAN	FR1	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Front	0.202	0.785	0.99
		Back	0.345	0.547	0.89
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Front	0.202	0.307	0.51
		Back	0.345	0.538	0.88
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Front	0.202	0.415	0.62
		Back	0.345	0.317	0.66
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Front	0.202	0.684	0.89
		Back	0.345	0.693	1.04
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Front	0.202	0.161	0.36
		Back	0.345	0.472	0.82
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Front	0.202	0.293	0.50
		Back	0.345	0.292	0.64



FCC SAR Test Report

Report No. : FA4N1331

ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Front	0.720	0.219	0.94
		Back	0.827	0.328	1.16
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 2	Front	0.720	0.307	1.03
		Back	0.827	0.538	1.37
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Front	0.720	0.415	1.14
		Back	0.827	0.317	1.14
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Front	0.720	0.684	1.40
		Back	0.827	0.693	1.52
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Front	0.720	0.161	0.88
		Back	0.827	0.472	1.30
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 7	Front	0.720	0.293	1.01
		Back	0.827	0.292	1.12
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Front	0.286	0.219	0.51
		Back	0.553	0.328	0.88
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Front	0.286	0.785	1.07
		Back	0.553	0.547	1.10
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Front	0.286	0.415	0.70
		Back	0.553	0.317	0.87
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 4	Front	0.286	0.684	0.97
		Back	0.553	0.693	1.25
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Front	0.286	0.161	0.45
		Back	0.553	0.472	1.03
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Front	0.286	0.293	0.58
		Back	0.553	0.292	0.85
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 0	Front	0.230	0.219	0.45
		Back	0.373	0.328	0.70
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Front	0.230	0.785	1.02
		Back	0.373	0.547	0.92
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Front	0.230	0.307	0.54
		Back	0.373	0.538	0.91
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 4	Front	0.230	0.684	0.91
		Back	0.373	0.693	1.07
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Front	0.230	0.161	0.39
		Back	0.373	0.472	0.85
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Front	0.230	0.293	0.52
		Back	0.373	0.292	0.67
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 0	Front	0.429	0.219	0.65
		Back	0.903	0.328	1.23
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Front	0.429	0.785	1.21
		Back	0.903	0.547	1.45
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Front	0.429	0.307	0.74
		Back	0.903	0.538	1.44
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Front	0.429	0.415	0.84
		Back	0.903	0.317	1.22
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Front	0.429	0.161	0.59
		Back	0.903	0.472	1.38
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Front	0.429	0.293	0.72
		Back	0.903	0.292	1.20
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Front	0.199	0.219	0.42
		Back	0.458	0.328	0.79
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Front	0.199	0.785	0.98
		Back	0.458	0.547	1.01
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Front	0.199	0.307	0.51
		Back	0.458	0.538	1.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Front	0.199	0.415	0.61
		Back	0.458	0.317	0.78



FCC SAR Test Report

Report No. : FA4N1331

ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Front	0.199	0.684	0.88
		Back	0.458	0.693	1.15
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 7	Front	0.199	0.293	0.49
		Back	0.458	0.292	0.75

WWAN Band	FR1 Band	Exposure Position	1	2	1+2
			WWAN	FR1	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Front	0.472	0.219	0.69
		Back	0.695	0.328	1.02
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Front	0.472	0.785	1.26
		Back	0.695	0.547	1.24
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Front	0.472	0.307	0.78
		Back	0.695	0.538	1.23
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Front	0.472	0.415	0.89
		Back	0.695	0.317	1.01
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Front	0.472	0.684	1.16
		Back	0.695	0.693	1.39
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Front	0.472	0.161	0.63
		Back	0.695	0.472	1.17

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Front	0.202	0.698	0.105	0.311	0.059	1.01	1.21	0.96
		Back	0.345	0.275	0.123	0.554	0.062	0.74	1.17	0.68
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Front	0.202	0.307	0.105	0.311	0.059	0.61	0.82	0.57
		Back	0.345	0.312	0.123	0.554	0.062	0.78	1.21	0.72
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Front	0.202	0.415	0.105	0.311	0.059	0.72	0.93	0.68
		Back	0.345	0.317	0.123	0.554	0.062	0.79	1.22	0.72
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Front	0.202	0.473	0.105	0.311	0.059	0.78	0.99	0.73
		Back	0.345	0.285	0.123	0.554	0.062	0.75	1.18	0.69
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Front	0.202	0.161	0.105	0.311	0.059	0.47	0.67	0.42
		Back	0.345	0.125	0.123	0.554	0.062	0.59	1.02	0.53
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Front	0.202	0.293	0.105	0.311	0.059	0.60	0.81	0.55
		Back	0.345	0.203	0.123	0.554	0.062	0.67	1.10	0.61
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Front	0.720	0.219	0.105	0.311	0.059	1.04	1.25	1.00
		Back	0.632	0.263	0.123	0.554	0.062	1.02	1.45	0.96
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 2	Front	0.720	0.307	0.105	0.311	0.059	1.13	1.34	1.09
		Back	0.632	0.312	0.123	0.554	0.062	1.07	1.50	1.01
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Front	0.720	0.415	0.105	0.311	0.059	1.24	1.45	1.19
		Back	0.632	0.317	0.123	0.554	0.062	1.07	1.50	1.01
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Front	0.720	0.473	0.105	0.311	0.059	1.30	1.50	1.25
		Back	0.632	0.285	0.123	0.554	0.062	1.04	1.47	0.98
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Front	0.720	0.161	0.105	0.311	0.059	0.99	1.19	0.94
		Back	0.632	0.125	0.123	0.554	0.062	0.88	1.31	0.82
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 7	Front	0.720	0.293	0.105	0.311	0.059	1.12	1.32	1.07
		Back	0.632	0.203	0.123	0.554	0.062	0.96	1.39	0.90
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Front	0.286	0.219	0.105	0.311	0.059	0.61	0.82	0.56
		Back	0.553	0.263	0.123	0.554	0.062	0.94	1.37	0.88
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Front	0.286	0.698	0.105	0.311	0.059	1.09	1.30	1.04
		Back	0.553	0.275	0.123	0.554	0.062	0.95	1.38	0.89
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Front	0.286	0.415	0.105	0.311	0.059	0.81	1.01	0.76
		Back	0.553	0.317	0.123	0.554	0.062	0.99	1.42	0.93
ALL Bands	ALL Bands	Front	0.286	0.473	0.105	0.311	0.059	0.86	1.07	0.82



FCC SAR Test Report

Report No. : FA4N1331

LTE Ant 2	FR1 Ant 4	Back	0.553	0.285	0.123	0.554	0.062	0.96	1.39	0.90
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Front	0.286	0.161	0.105	0.311	0.059	0.55	0.76	0.51
		Back	0.553	0.125	0.123	0.554	0.062	0.80	1.23	0.74
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Front	0.286	0.293	0.105	0.311	0.059	0.68	0.89	0.64
		Back	0.553	0.203	0.123	0.554	0.062	0.88	1.31	0.82
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 0	Front	0.230	0.219	0.105	0.311	0.059	0.55	0.76	0.51
		Back	0.373	0.263	0.123	0.554	0.062	0.76	1.19	0.70
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Front	0.230	0.698	0.105	0.311	0.059	1.03	1.24	0.99
		Back	0.373	0.275	0.123	0.554	0.062	0.77	1.20	0.71
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Front	0.230	0.307	0.105	0.311	0.059	0.64	0.85	0.60
		Back	0.373	0.312	0.123	0.554	0.062	0.81	1.24	0.75
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 4	Front	0.230	0.473	0.105	0.311	0.059	0.81	1.01	0.76
		Back	0.373	0.285	0.123	0.554	0.062	0.78	1.21	0.72
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Front	0.230	0.161	0.105	0.311	0.059	0.50	0.70	0.45
		Back	0.373	0.125	0.123	0.554	0.062	0.62	1.05	0.56
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Front	0.230	0.293	0.105	0.311	0.059	0.63	0.83	0.58
		Back	0.373	0.203	0.123	0.554	0.062	0.70	1.13	0.64
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 0	Front	0.429	0.219	0.105	0.311	0.059	0.75	0.96	0.71
		Back	0.626	0.263	0.123	0.554	0.062	1.01	1.44	0.95
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Front	0.429	0.698	0.105	0.311	0.059	1.23	1.44	1.19
		Back	0.626	0.275	0.123	0.554	0.062	1.02	1.46	0.96
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Front	0.429	0.307	0.105	0.311	0.059	0.84	1.05	0.80
		Back	0.626	0.312	0.123	0.554	0.062	1.06	1.49	1.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Front	0.429	0.415	0.105	0.311	0.059	0.95	1.16	0.90
		Back	0.626	0.317	0.123	0.554	0.062	1.07	1.50	1.01
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Front	0.429	0.161	0.105	0.311	0.059	0.70	0.90	0.65
		Back	0.626	0.125	0.123	0.554	0.062	0.87	1.31	0.81
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Front	0.429	0.293	0.105	0.311	0.059	0.83	1.03	0.78
		Back	0.626	0.203	0.123	0.554	0.062	0.95	1.38	0.89
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Front	0.199	0.219	0.105	0.311	0.059	0.52	0.73	0.48
		Back	0.458	0.263	0.123	0.554	0.062	0.84	1.28	0.78
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Front	0.199	0.698	0.105	0.311	0.059	1.00	1.21	0.96
		Back	0.458	0.275	0.123	0.554	0.062	0.86	1.29	0.80
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Front	0.199	0.307	0.105	0.311	0.059	0.61	0.82	0.57
		Back	0.458	0.312	0.123	0.554	0.062	0.89	1.32	0.83
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Front	0.199	0.415	0.105	0.311	0.059	0.72	0.93	0.67
		Back	0.458	0.317	0.123	0.554	0.062	0.90	1.33	0.84
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Front	0.199	0.473	0.105	0.311	0.059	0.78	0.98	0.73
		Back	0.458	0.285	0.123	0.554	0.062	0.87	1.30	0.81
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 7	Front	0.199	0.293	0.105	0.311	0.059	0.60	0.80	0.55
		Back	0.458	0.203	0.123	0.554	0.062	0.78	1.22	0.72

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4	1+2+5
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Front	0.472	0.219	0.105	0.311	0.059	0.80	1.00	0.75
		Back	0.289	0.263	0.123	0.554	0.062	0.68	1.11	0.61
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Front	0.472	0.698	0.105	0.311	0.059	1.28	1.48	1.23
		Back	0.289	0.275	0.123	0.554	0.062	0.69	1.12	0.63
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Front	0.472	0.307	0.105	0.311	0.059	0.88	1.09	0.84
		Back	0.289	0.312	0.123	0.554	0.062	0.72	1.16	0.66
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Front	0.472	0.415	0.105	0.311	0.059	0.99	1.20	0.95
		Back	0.289	0.317	0.123	0.554	0.062	0.73	1.16	0.67
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Front	0.472	0.473	0.105	0.311	0.059	1.05	1.26	1.00
		Back	0.289	0.285	0.123	0.554	0.062	0.70	1.13	0.64



FCC SAR Test Report

Report No. : FA4N1331

ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Front	0.472	0.161	0.105	0.311	0.059	0.74	0.94	0.69
		Back	0.289	0.125	0.123	0.554	0.062	0.54	0.97	0.48

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+2+3+4
			WWAN	FR1	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Front	0.202	0.698	0.311	0.059	1.27
		Back	0.345	0.275	0.554	0.062	1.24
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Front	0.202	0.307	0.311	0.059	0.88
		Back	0.345	0.312	0.554	0.062	1.27
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Front	0.202	0.415	0.311	0.059	0.99
		Back	0.345	0.317	0.554	0.062	1.28
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Front	0.202	0.473	0.311	0.059	1.05
		Back	0.345	0.285	0.554	0.062	1.25
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Front	0.202	0.161	0.311	0.059	0.73
		Back	0.345	0.125	0.554	0.062	1.09
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Front	0.202	0.293	0.311	0.059	0.87
		Back	0.345	0.203	0.554	0.062	1.16
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Front	0.720	0.219	0.311	0.059	1.31
		Back	0.632	0.263	0.554	0.062	1.51
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 2	Front	0.720	0.307	0.311	0.059	1.40
		Back	0.632	0.312	0.554	0.062	1.56
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Front	0.720	0.415	0.311	0.059	1.51
		Back	0.632	0.317	0.554	0.062	1.57
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Front	0.720	0.473	0.311	0.059	1.56
		Back	0.632	0.285	0.554	0.062	1.53
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Front	0.720	0.161	0.311	0.059	1.25
		Back	0.632	0.125	0.554	0.062	1.37
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 7	Front	0.720	0.293	0.311	0.059	1.38
		Back	0.632	0.203	0.554	0.062	1.45
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Front	0.286	0.219	0.311	0.059	0.88
		Back	0.553	0.263	0.554	0.062	1.43
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Front	0.286	0.698	0.311	0.059	1.35
		Back	0.553	0.275	0.554	0.062	1.44
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Front	0.286	0.415	0.311	0.059	1.07
		Back	0.553	0.317	0.554	0.062	1.49
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 4	Front	0.286	0.473	0.311	0.059	1.13
		Back	0.553	0.285	0.554	0.062	1.45
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Front	0.286	0.161	0.311	0.059	0.82
		Back	0.553	0.125	0.554	0.062	1.29
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Front	0.286	0.293	0.311	0.059	0.95
		Back	0.553	0.203	0.554	0.062	1.37
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 0	Front	0.230	0.219	0.311	0.059	0.82
		Back	0.373	0.263	0.554	0.062	1.25
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Front	0.230	0.698	0.311	0.059	1.30
		Back	0.373	0.275	0.554	0.062	1.26
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Front	0.230	0.307	0.311	0.059	0.91
		Back	0.373	0.312	0.554	0.062	1.30
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 4	Front	0.230	0.473	0.311	0.059	1.07
		Back	0.373	0.285	0.554	0.062	1.27
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Front	0.230	0.161	0.311	0.059	0.76
		Back	0.373	0.125	0.554	0.062	1.11
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Front	0.230	0.293	0.311	0.059	0.89
		Back	0.373	0.203	0.554	0.062	1.19
ALL Bands LTE Ant 4	ALL Bands FR1 Ant	Front	0.429	0.219	0.311	0.059	1.02



FCC SAR Test Report

Report No. : FA4N1331

	0	Back	0.626	0.263	0.554	0.062	1.51
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Front	0.429	0.698	0.311	0.059	1.50
		Back	0.626	0.275	0.554	0.062	1.52
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Front	0.429	0.307	0.311	0.059	1.11
		Back	0.626	0.312	0.554	0.062	1.55
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Front	0.429	0.415	0.311	0.059	1.21
		Back	0.626	0.317	0.554	0.062	1.56
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Front	0.429	0.161	0.311	0.059	0.96
		Back	0.626	0.125	0.554	0.062	1.37
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Front	0.429	0.293	0.311	0.059	1.09
		Back	0.626	0.203	0.554	0.062	1.45
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Front	0.199	0.219	0.311	0.059	0.79
		Back	0.458	0.263	0.554	0.062	1.34
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Front	0.199	0.698	0.311	0.059	1.27
		Back	0.458	0.275	0.554	0.062	1.35
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Front	0.199	0.307	0.311	0.059	0.88
		Back	0.458	0.312	0.554	0.062	1.39
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Front	0.199	0.415	0.311	0.059	0.98
		Back	0.458	0.317	0.554	0.062	1.39
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Front	0.199	0.473	0.311	0.059	1.04
		Back	0.458	0.285	0.554	0.062	1.36
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 7	Front	0.199	0.293	0.311	0.059	0.86
		Back	0.458	0.203	0.554	0.062	1.28

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+2+3+4
			WWAN	FR1	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Front	0.472	0.219	0.311	0.059	1.06
		Back	0.289	0.263	0.554	0.062	1.17
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Front	0.472	0.698	0.311	0.059	1.54
		Back	0.289	0.275	0.554	0.062	1.18
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Front	0.472	0.307	0.311	0.059	1.15
		Back	0.289	0.312	0.554	0.062	1.22
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Front	0.472	0.415	0.311	0.059	1.26
		Back	0.289	0.317	0.554	0.062	1.22
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Front	0.472	0.473	0.311	0.059	1.32
		Back	0.289	0.285	0.554	0.062	1.19
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Front	0.472	0.161	0.311	0.059	1.00
		Back	0.289	0.125	0.554	0.062	1.03

16.4 Product specific 10g SAR Exposure Conditions

Remark:

- For WLAN2.4G/Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

WWAN Band	Exposure Position	1	4	5	1+4+5
		WWAN	WLAN5GHz Ant 6	NFC	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
ALL Bands Ant 0	Front		0.529		0.53
	Back		0.822	0.025	0.85
	Left side				0.00
	Right side		1.755		1.76
	Top side		0.484		0.48
	Bottom side				0.00
ALL Bands Ant 1	Front	2.144	0.529		2.67
	Back	3.092	0.822	0.025	3.94
	Left side	3.022			3.02
	Right side		1.755		1.76
	Top side		0.484		0.48
	Bottom side				0.00
ALL Bands Ant 2	Front		0.529		0.53
	Back	2.951	0.822	0.025	3.80
	Left side	2.885			2.89
	Right side		1.755		1.76
	Top side		0.484		0.48
	Bottom side				0.00
ALL Bands Ant 3	Front		0.529		0.53
	Back		0.822	0.025	0.85
	Left side	2.859			2.86
	Right side		1.755		1.76
	Top side		0.484		0.48
	Bottom side				0.00
ALL Bands Ant 4	Front	2.032	0.529		2.56
	Back	3.037	0.822	0.025	3.88
	Left side				0.00
	Right side		1.755		1.76
	Top side	3.115	0.484		3.60
	Bottom side				0.00
ALL Bands Ant 5	Front		0.529		0.53
	Back	2.194	0.822	0.025	3.04
	Left side				0.00
	Right side	2.085	1.755		3.84
	Top side		0.484		0.48
	Bottom side				0.00
ALL Bands Ant 7	Front	1.828	0.529		2.36
	Back	2.795	0.822	0.025	3.64
	Left side				0.00
	Right side	1.580	1.755		3.34
	Top side	2.743	0.484		3.23
	Bottom side				0.00



<ENDC>

WWAN Band	FR1 Band	Exposure Position	1	2	3	1+2+3
			WWAN	FR1	NFC	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Front		2.144		2.14
		Back		1.073	0.025	1.10
		Left side		1.049		1.05
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Front				0.00
		Back		1.005	0.025	1.03
		Left side		1.005		1.01
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Front				0.00
		Back			0.025	0.03
		Left side		1.006		1.01
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Front		2.032		2.03
		Back		1.073	0.025	1.10
		Left side				0.00
		Right side				0.00
		Top side		3.115		3.12
		Bottom side				0.00
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Front				0.00
		Back		0.895	0.025	0.92
		Left side				0.00
		Right side		1.094		1.09
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Front		1.828		1.83
		Back		1.011	0.025	1.04
		Left side				0.00
		Right side		0.918		0.92
		Top side		1.113		1.11
		Bottom side				0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Front	1.587			1.59
		Back	2.435		0.025	2.46
		Left side	2.426			2.43
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 2	Front	1.587			1.59
		Back	2.435	1.005	0.025	3.47
		Left side	2.426	1.005		3.43
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Front	1.587			1.59
		Back	2.435		0.025	2.46
		Left side	2.426	1.006		3.43



FCC SAR Test Report

Report No. : FA4N1331

		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Front	1.587	2.032		3.62
		Back	2.435	1.073	0.025	3.53
		Left side	2.426			2.43
		Right side				0.00
		Top side		3.115		3.12
		Bottom side				0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Front	1.587			1.59
		Back	2.435	0.895	0.025	3.36
		Left side	2.426			2.43
		Right side		1.094		1.09
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 7	Front	1.587	1.828		3.42
		Back	2.435	1.011	0.025	3.47
		Left side	2.426			2.43
		Right side		0.918		0.92
		Top side		1.113		1.11
		Bottom side				0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Front				0.00
		Back			0.025	0.03
		Left side	2.411			2.41
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Front		2.144		2.14
		Back		1.073	0.025	1.10
		Left side	2.411	1.049		3.46
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Front				0.00
		Back			0.025	0.03
		Left side	2.411	1.006		3.42
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 4	Front		2.032		2.03
		Back		1.073	0.025	1.10
		Left side	2.411			2.41
		Right side				0.00
		Top side		3.115		3.12
		Bottom side				0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Front				0.00
		Back		0.895	0.025	0.92
		Left side	2.411			2.41
		Right side		1.094		1.09
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Front		1.828		1.83
		Back		1.011	0.025	1.04
		Left side	2.411			2.41
		Right side		0.918		0.92
		Top side		1.113		1.11



FCC SAR Test Report

Report No. : FA4N1331

		Bottom side				0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 0	Front				0.00
		Back			0.025	0.03
		Left side				0.00
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Front		2.144		2.14
		Back		1.073	0.025	1.10
		Left side		1.049		1.05
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Front				0.00
		Back		1.005	0.025	1.03
		Left side		1.005		1.01
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 4	Front		2.032		2.03
		Back		1.073	0.025	1.10
		Left side				0.00
		Right side				0.00
		Top side		3.115		3.12
		Bottom side				0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Front				0.00
		Back		0.895	0.025	0.92
		Left side				0.00
		Right side		1.094		1.09
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Front		1.828		1.83
		Back		1.011	0.025	1.04
		Left side				0.00
		Right side		0.918		0.92
		Top side		1.113		1.11
		Bottom side				0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 0	Front				0.00
		Back	2.560		0.025	2.59
		Left side				0.00
		Right side				0.00
		Top side	2.547			2.55
		Bottom side				0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Front		2.144		2.14
		Back	2.560	1.073	0.025	3.66
		Left side		1.049		1.05
		Right side				0.00
		Top side	2.547			2.55
		Bottom side				0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Front				0.00
		Back	2.560	1.005	0.025	3.59
		Left side		1.005		1.01
		Right side				0.00
		Top side	2.547			2.55
		Bottom side				0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Front				0.00



		Back	2.560		0.025	2.59
		Left side		1.006		1.01
		Right side				0.00
		Top side	2.547			2.55
		Bottom side				0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Front				0.00
		Back	2.560	0.895	0.025	3.48
		Left side				0.00
		Right side		1.094		1.09
		Top side	2.547			2.55
		Bottom side				0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Front		1.828		1.83
		Back	2.560	1.011	0.025	3.60
		Left side				0.00
		Right side		0.918		0.92
		Top side	2.547	1.113		3.66
		Bottom side				0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Front				0.00
		Back			0.025	0.03
		Left side				0.00
		Right side	2.540			2.54
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Front		2.144		2.14
		Back		1.073	0.025	1.10
		Left side		1.049		1.05
		Right side	2.540			2.54
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Front				0.00
		Back		1.005	0.025	1.03
		Left side		1.005		1.01
		Right side	2.540			2.54
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Front				0.00
		Back			0.025	0.03
		Left side		1.006		1.01
		Right side	2.540			2.54
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Front		2.032		2.03
		Back		1.073	0.025	1.10
		Left side				0.00
		Right side	2.540			2.54
		Top side		3.115		3.12
		Bottom side				0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 7	Front		1.828		1.83
		Back		1.011	0.025	1.04
		Left side				0.00
		Right side	2.540	0.918		3.46
		Top side		1.113		1.11
		Bottom side				0.00



WWAN Band	FR1 Band	Exposure Position	1	2	3	1+2+3 Summed 10g SAR (W/kg)
			WWAN	FR1	NFC	
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Front				0.00
		Back	2.238		0.025	2.26
		Left side				0.00
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Front		2.144		2.14
		Back	2.238	1.073	0.025	3.34
		Left side		1.049		1.05
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Front				0.00
		Back	2.238	1.005	0.025	3.27
		Left side		1.005		1.01
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Front				0.00
		Back	2.238		0.025	2.26
		Left side		1.006		1.01
		Right side				0.00
		Top side				0.00
		Bottom side				0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Front		2.032		2.03
		Back	2.238	1.073	0.025	3.34
		Left side				0.00
		Right side				0.00
		Top side		3.115		3.12
		Bottom side				0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Front				0.00
		Back	2.238	0.895	0.025	3.16
		Left side				0.00
		Right side		1.094		1.09
		Top side				0.00
		Bottom side				0.00

WWAN Band	FR1 Band	Exposure Position	1	2	4	6	1+2+6 Summed 10g SAR (W/kg)	1+2+4+6 Summed 10g SAR (W/kg)
			WWAN	FR1	WLAN5GHz Ant 6	NFC		
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 1	Front		2.144	0.529		2.14	2.67
		Back		0.704	0.822	0.025	0.73	1.55
		Left side		1.660			1.66	1.66
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 2	Front			0.529		0.00	0.53
		Back		0.663	0.822	0.025	0.69	1.51
		Left side		0.631			0.63	0.63
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48



FCC SAR Test Report

Report No. : FA4N1331

		Bottom side					0.00	0.00
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 3	Front			0.529		0.00	0.53
		Back			0.822	0.025	0.03	0.85
		Left side		0.633			0.63	0.63
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 4	Front		0.410	0.529		0.41	0.94
		Back		0.704	0.822	0.025	0.73	1.55
		Left side					0.00	0.00
		Right side			1.755		0.00	1.76
		Top side		3.115	0.484		3.12	3.60
		Bottom side					0.00	0.00
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 5	Front			0.529		0.00	0.53
		Back		0.586	0.822	0.025	0.61	1.43
		Left side					0.00	0.00
		Right side		0.720	1.755		0.72	2.48
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 0	ALL Bands FR1 Ant 7	Front		1.828	0.529		1.83	2.36
		Back		0.638	0.822	0.025	0.66	1.49
		Left side					0.00	0.00
		Right side		0.569	1.755		0.57	2.32
		Top side		0.703	0.484		0.70	1.19
		Bottom side					0.00	0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 0	Front	1.587		0.529		1.59	2.12
		Back	1.511		0.822	0.025	1.54	2.36
		Left side	1.396				1.40	1.40
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 2	Front	1.587		0.529		1.59	2.12
		Back	1.511	0.663	0.822	0.025	2.20	3.02
		Left side	1.396	0.631			2.03	2.03
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 3	Front	1.587		0.529		1.59	2.12
		Back	1.511		0.822	0.025	1.54	2.36
		Left side	1.396	0.633			2.03	2.03
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 4	Front	1.587	0.410	0.529		2.00	2.53
		Back	1.511	0.704	0.822	0.025	2.24	3.06
		Left side	1.396				1.40	1.40
		Right side			1.755		0.00	1.76
		Top side		3.115	0.484		3.12	3.60
		Bottom side					0.00	0.00
ALL Bands LTE Ant 1	ALL Bands FR1 Ant 5	Front	1.587		0.529		1.59	2.12
		Back	1.511	0.586	0.822	0.025	2.12	2.94
		Left side	1.396				1.40	1.40
		Right side		0.720	1.755		0.72	2.48
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE	ALL Bands FR1	Front	1.587	1.828	0.529		3.42	3.94



FCC SAR Test Report

Report No. : FA4N1331

Ant 1	Ant 7	Back	1.511	0.638	0.822	0.025	2.17	3.00
		Left side	1.396				1.40	1.40
		Right side		0.569	1.755		0.57	2.32
		Top side		0.703	0.484		0.70	1.19
		Bottom side					0.00	0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Front			0.529		0.00	0.53
		Back			0.822	0.025	0.03	0.85
		Left side	1.406				1.41	1.41
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 1	Bottom side					0.00	0.00
		Front		2.144	0.529		2.14	2.67
		Back		0.704	0.822	0.025	0.73	1.55
		Left side	1.406	1.660			3.07	3.07
		Right side			1.755		0.00	1.76
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 3	Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
		Front			0.529		0.00	0.53
		Back			0.822	0.025	0.03	0.85
		Left side	1.406	0.633			2.04	2.04
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 4	Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
		Front		0.410	0.529		0.41	0.94
		Back		0.704	0.822	0.025	0.73	1.55
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 5	Left side	1.406				1.41	1.41
		Right side			1.755		0.00	1.76
		Top side		3.115	0.484		3.12	3.60
		Bottom side					0.00	0.00
		Front			0.529		0.00	0.53
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 7	Back		0.586	0.822	0.025	0.61	1.43
		Left side	1.406				1.41	1.41
		Right side		0.720	1.755		0.72	2.48
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 2	ALL Bands FR1 Ant 0	Front		1.828	0.529		1.83	2.36
		Back		0.638	0.822	0.025	0.66	1.49
		Left side	1.406				1.41	1.41
		Right side		0.569	1.755		0.57	2.32
		Top side		0.703	0.484		0.70	1.19
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 1	Bottom side					0.00	0.00
		Front			0.529		0.00	0.53
		Back			0.822	0.025	0.03	0.85
		Left side					0.00	0.00
		Right side			1.755		0.00	1.76
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
		Front		2.144	0.529		2.14	2.67
		Back		0.704	0.822	0.025	0.73	1.55
		Left side		1.660			1.66	1.66
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 2	Front			0.529		0.00	0.53
		Back		0.663	0.822	0.025	0.69	1.51
		Left side		0.631			0.63	0.63



FCC SAR Test Report

Report No. : FA4N1331

		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 4	Front		0.410	0.529		0.41	0.94
		Back		0.704	0.822	0.025	0.73	1.55
		Left side					0.00	0.00
		Right side			1.755		0.00	1.76
		Top side		3.115	0.484		3.12	3.60
		Bottom side					0.00	0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 5	Front			0.529		0.00	0.53
		Back		0.586	0.822	0.025	0.61	1.43
		Left side					0.00	0.00
		Right side		0.720	1.755		0.72	2.48
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 3	ALL Bands FR1 Ant 7	Front		1.828	0.529		1.83	2.36
		Back		0.638	0.822	0.025	0.66	1.49
		Left side					0.00	0.00
		Right side		0.569	1.755		0.57	2.32
		Top side		0.703	0.484		0.70	1.19
		Bottom side					0.00	0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 0	Front			0.529		0.00	0.53
		Back	2.254		0.822	0.025	2.28	3.10
		Left side					0.00	0.00
		Right side			1.755		0.00	1.76
		Top side	2.547		0.484		2.55	3.03
		Bottom side					0.00	0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 1	Front		2.144	0.529		2.14	2.67
		Back	2.254	0.704	0.822	0.025	2.98	3.81
		Left side		1.660			1.66	1.66
		Right side			1.755		0.00	1.76
		Top side	2.547		0.484		2.55	3.03
		Bottom side					0.00	0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 2	Front			0.529		0.00	0.53
		Back	2.254	0.663	0.822	0.025	2.94	3.76
		Left side		0.631			0.63	0.63
		Right side			1.755		0.00	1.76
		Top side	2.547		0.484		2.55	3.03
		Bottom side					0.00	0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 3	Front			0.529		0.00	0.53
		Back	2.254		0.822	0.025	2.28	3.10
		Left side		0.633			0.63	0.63
		Right side			1.755		0.00	1.76
		Top side	2.547		0.484		2.55	3.03
		Bottom side					0.00	0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 5	Front			0.529		0.00	0.53
		Back	2.254	0.586	0.822	0.025	2.87	3.69
		Left side					0.00	0.00
		Right side		0.720	1.755		0.72	2.48
		Top side	2.547		0.484		2.55	3.03
		Bottom side					0.00	0.00
ALL Bands LTE Ant 4	ALL Bands FR1 Ant 7	Front		1.828	0.529		1.83	2.36
		Back	2.254	0.638	0.822	0.025	2.92	3.74
		Left side					0.00	0.00
		Right side		0.569	1.755		0.57	2.32
		Top side	2.547	0.703	0.484		3.25	3.73



FCC SAR Test Report

Report No. : FA4N1331

		Bottom side					0.00	0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 0	Front			0.529		0.00	0.53
		Back			0.822	0.025	0.03	0.85
		Left side					0.00	0.00
		Right side	1.460		1.755		1.46	3.22
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 1	Front		2.144	0.529		2.14	2.67
		Back		0.704	0.822	0.025	0.73	1.55
		Left side		1.660			1.66	1.66
		Right side	1.460		1.755		1.46	3.22
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 2	Front			0.529		0.00	0.53
		Back		0.663	0.822	0.025	0.69	1.51
		Left side		0.631			0.63	0.63
		Right side	1.460		1.755		1.46	3.22
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 3	Front			0.529		0.00	0.53
		Back			0.822	0.025	0.03	0.85
		Left side		0.633			0.63	0.63
		Right side	1.460		1.755		1.46	3.22
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 4	Front		0.410	0.529		0.41	0.94
		Back		0.704	0.822	0.025	0.73	1.55
		Left side					0.00	0.00
		Right side	1.460		1.755		1.46	3.22
		Top side		3.115	0.484		3.12	3.60
		Bottom side					0.00	0.00
ALL Bands LTE Ant 5	ALL Bands FR1 Ant 7	Front		1.828	0.529		1.83	2.36
		Back		0.638	0.822	0.025	0.66	1.49
		Left side					0.00	0.00
		Right side	1.460	0.569	1.755		2.03	3.78
		Top side		0.703	0.484		0.70	1.19
		Bottom side					0.00	0.00

WWAN Band	FR1 Band	Exposure Position	1	2	4	6	1+2+6 Summed 10g SAR (W/kg)	1+2+4+6 Summed 10g SAR (W/kg)
			WWAN	FR1	WLAN5GHz Ant 6	NFC		
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 0	Front			0.529		0.00	0.53
		Back	1.404		0.822	0.025	1.43	2.25
		Left side					0.00	0.00
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 1	Front		2.144	0.529		2.14	2.67
		Back	1.404	0.704	0.822	0.025	2.13	2.96
		Left side		1.660			1.66	1.66
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 2	Front			0.529		0.00	0.53
		Back	1.404	0.663	0.822	0.025	2.09	2.91



		Left side		0.631			0.63	0.63
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 3	Front			0.529		0.00	0.53
		Back	1.404		0.822	0.025	1.43	2.25
		Left side		0.633			0.63	0.63
		Right side			1.755		0.00	1.76
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 4	Front		0.410	0.529		0.41	0.94
		Back	1.404	0.704	0.822	0.025	2.13	2.96
		Left side					0.00	0.00
		Right side			1.755		0.00	1.76
		Top side		3.115	0.484		3.12	3.60
		Bottom side					0.00	0.00
ALL Bands LTE Ant 7	ALL Bands FR1 Ant 5	Front			0.529		0.00	0.53
		Back	1.404	0.586	0.822	0.025	2.02	2.84
		Left side					0.00	0.00
		Right side		0.720	1.755		0.72	2.48
		Top side			0.484		0.00	0.48
		Bottom side					0.00	0.00

Sensor Off

WWAN Band	Exposure Position	1	4	1+4
		WWAN	WLAN5GHz Ant 6	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
ALL Bands Ant 1	Front	1.978	0.178	2.16
	Back	1.098	0.313	1.41
	Left side	0.914		0.91
	Right side		0.402	0.40
	Top side		0.171	0.17
	Bottom side			0.00
ALL Bands Ant 4	Front	0.585	0.178	0.76
	Back	0.488	0.313	0.80
	Left side			0.00
	Right side		0.402	0.40
	Top side	0.668	0.171	0.84
	Bottom side			0.00

Test Engineer : Hank Huang, Kevin Xu, David Dai, Bin He



17. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

18. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [9] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [10] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [11] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [12] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [13] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [14] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015

Appendixes

Please refer to separated files for the following appendixes

Appendix A. Plots of System Performance Check

Appendix B. Plots of High SAR Measurement

Appendix C. DASY Calibration Certificate

Appendix D. Test Setup Photos

Appendix E. Conducted RF Output Power Table

Appendix F. Power measurement connection diagram and CA Conducted RF Output Power Table

Appendix G. Power reduction mechanism verification

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