



FCC SAR Test Report

APPLICANT : Zebra Technologies Corporation
EQUIPMENT : Enterprise Mobile
BRAND NAME : Zebra
MODEL NAME : EM45A2
FCC ID : UZ7EM45A2
STANDARD : FCC 47 CFR Part 2 (2.1093)

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

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

A handwritten signature in blue ink that reads "Si Zhang".

Approved by: Si Zhang



Sporton International Inc. (Kunshan)

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



Table of Contents

1. Statement of Compliance	4
2. Administration Data	6
3. Guidance Applied	6
4. Equipment Under Test (EUT) Information	7
4.1 General Information.....	7
4.2 General LTE SAR Test and Reporting Considerations	10
4.3 General 5G NR SAR Test and Reporting Considerations	14
5. Smart Transmit feature for RF Exposure compliance.....	18
6. RF Exposure Limits.....	21
6.1 Uncontrolled Environment.....	21
6.2 Controlled Environment.....	21
7. Specific Absorption Rate (SAR)	22
7.1 Introduction	22
7.2 SAR Definition	22
8. System Description and Setup.....	23
8.1 E-Field Probe	24
8.2 Data Acquisition Electronics (DAE)	24
8.3 Phantom.....	25
8.4 Device Holder.....	26
9. Measurement Procedures.....	27
9.1 Spatial Peak SAR Evaluation	27
9.2 Power Reference Measurement.....	28
9.3 Area Scan.....	28
9.4 Zoom Scan.....	29
9.5 Volume Scan Procedures.....	29
9.6 Power Drift Monitoring.....	29
10. Test Equipment List	30
11. System Verification	31
11.1 Tissue Simulating Liquids	31
11.2 Tissue Verification.....	31
11.3 System Performance Check Results	33
12. RF Exposure Positions	35
12.1 Ear and handset reference point	35
12.2 Definition of the cheek position	36
12.3 Definition of the tilt position	37
12.4 Body Worn Accessory	38
12.5 Product Specific 10g SAR Exposure	39
12.6 Wireless Router.....	39
13. Conducted RF Output Power (Unit: dBm).....	40
13.1 DL/UL Carrier Aggregation	40
13.2 EN-DC Combination Configuration	61
14. Antenna Location	63
15. SAR Test Results	64
15.1 Head SAR	67
15.2 Hotspot SAR	77
15.3 Body Worn Accessory SAR.....	92
15.4 Product specific 10g SAR.....	98
15.5 Repeated SAR Measurement	103
15.6 TDD LTE Linearity Data Analysis	104
16. Simultaneous Transmission Analysis	106
16.1 5G NR + LTE + WLAN + BT Sim-Tx analysis.....	108
16.2 MIMO SAR Test condition and verification	109
16.3 Head Exposure Conditions.....	110
16.4 Hotspot Exposure Conditions.....	110
16.5 Body-Worn Accessory Exposure Conditions	111
16.6 Product specific 10g SAR Exposure Conditions.....	112
17. Uncertainty Assessment.....	113
18. References.....	114
Appendix A. Plots of System Performance Check	
Appendix B. Plots of High SAR Measurement	
Appendix C. DASY Calibration Certificate	
Appendix D. Test Setup Photos	



FCC SAR Test Report

Report No. : FA460505

Appendix E. Conducted RF Output Power Table

Appendix F. Power measurement connection diagram

Appendix G. Proximity light sensor validation and Power reduction mechanism verification

Appendix H. Verify MIMO SAR analysis results

Revision History

[illegible]



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Zebra Technologies Corporation, Enterprise Mobile, EM45A2**, 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	WCDMA	WCDMA II	1.09	1.03	0.42	1.59
		WCDMA IV	1.09	1.08	0.48	
		WCDMA V	1.07	0.87	0.56	
	LTE	LTE Band 25/2	1.07	1.08	0.57	
		LTE Band 7	1.08	1.08	0.62	
		LTE Band 12/17	1.07	0.68	0.36	
		LTE Band 13	1.09	0.75	0.35	
		LTE Band 14	1.06	0.89	0.40	
		LTE Band 26/5	1.07	1.03	0.47	
		LTE Band 30	1.06	1.05	0.26	
		LTE Band 66/4	1.08	1.09	0.62	
		LTE Band 71	1.06	0.57	0.28	
		LTE Band 41/38	1.07	1.09	0.36	
		LTE Band 48	1.09	0.92	0.56	
	5G NR	FR1 n7	1.09	1.08	0.58	
		FR1 n12	1.05	0.86	0.36	
		FR1 n13	1.07	0.92	0.36	
		FR1 n14	1.03	0.92	0.43	
		FR1 n25/2	1.05	1.09	0.46	
		FR1 n26/5	1.08	1.08	0.50	
		FR1 n30	1.08	1.04	0.26	
		FR1 n66	1.07	1.08	0.55	
		FR1 n71	1.09	0.73	0.32	
		FR1 n41/38	1.10	1.10	0.48	
		FR1 n48	1.08	1.08	0.50	
		FR1 n77/78	1.08	1.09	0.61	
DSS	RFID	RFID		0.28	0.14	1.47
DTS	WLAN	2.4GHz WLAN	1.10	1.08	0.43	1.58
NII		5GHz WLAN	1.20	1.17	1.15	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.11	<0.10	<0.10	1.59



FCC SAR Test Report

Report No. : FA460505

Highest 10g SAR Summary					
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)	
Licensed	WCDMA	WCDMA II	2.68	3.99	
		WCDMA IV	2.41		
		LTE Band 25/2	2.79		
	LTE	LTE Band 7	2.93		
		LTE Band 30	3.06		
		LTE Band 66/4	2.88		
		LTE Band 41/38	3.07		
		FR1	FR1 n7		3.04
			FR1 n25/2		3.05
	FR1 n30		2.99		
	FR1 n66		2.82		
	FR1 n41/38		3.08		
	FR1 n48		2.63		
	FR1 n77/78		2.81		
DSS	RFID	RFID	0.55	3.46	
DTS	WLAN	2.4GHz WLAN	2.83	3.57	
NII		5GHz WLAN	2.75	3.99	
Date of Testing:			2024/7/6 ~ 2024/8/23		

Remark:

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

Declaration of Conformity:

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

Comments and Explanations:

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

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



2. Administration Data

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR02-KS SAR03-KS SAR07-KS	CN1257	314309

Applicant	
Company Name	Zebra Technologies Corporation
Address	3 Overlook Point, Lincolnshire, IL 60069 USA

Manufacturer	
Company Name	Zebra Technologies Corporation
Address	3 Overlook Point, Lincolnshire, IL 60069 USA

3. Guidance Applied

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

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



4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Enterprise Mobile
Brand Name	Zebra
Model Name	EM45A2
FCC ID	UZ7EM45A2
IMEI Code	IMEI1: 352991990035176 IMEI2: 352991990035390
Wireless Technology and Frequency Range	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz WLAN 6GHz U-NII 5: 5925 MHz ~ 6425 MHz WLAN 6GHz U-NII 6: 6425 MHz ~ 6525 MHz WLAN 6GHz U-NII 7: 6525 MHz ~ 6875 MHz WLAN 6GHz U-NII 8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz RFID : 902.75 MHz ~ 927.25 MHz
Mode	RMC/AMR 12.2Kbps HSDPA HSUPA



FCC SAR Test Report

Report No. : FA460505

	DC-HSDPA HSPA+ (16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 2.4GHz 802.11ac VHT20 WLAN 2.4GHz 802.11ax HE20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC: ASK RFID : ASK
HW Version	EV2.5
SW Version	13-32-08.00-TG-U06-STD-ATH-04
MFD	08AUG24
EUT Stage	Identical Prototype
Remark: 1. This device supports VoIP in WCDMA and LTE (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 WLAN supports WiFi Direct (GC only). WLAN 6GHz has no hotspot function. 4. This device supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). 5. The device implements receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E. 6. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head body-worn, hotspot and extremity exposure condition. 7. The device support P-light sensor detection and the power verification include in appendix G, more information refer to operational description. 8. This device supports HPUE for LTE Band 41 with class 2 level, HPUE power has been measured separately. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR. 9. This device supports HPUE mode for 5GNR n41/n77 (Part 270&27Q)/n78 (Part 270&27Q), since HPUE mode is with higher power, so power class 2 was chosen to perform full SAR testing and power class 2 SAR can represent power class 3 SAR. 10. Part 96 for 5GNR n77/n78 is not supports HPUE mode. 11. For 5G NR bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing. 12. SAR testing for RFID was performed using FTM (Factory Test Mode). 13. The device support DBS (Dual Band Simultaneous) function, when the device 2.4GHz and 5GHz or 6GHz transmit at the same time the device will limit different output power for simultaneous transmission compliance. 14. This device has one EM45 Protective Case that does not contain metal components and any electronic circuitry, it has no effect on RF exposure and does not require evaluation for SAR. 15. This device has NFC function and the NFC SAR report will be separately submitted. 16. SAR and Power density test report for WLAN 6GHz U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth always chose higher SAR of WLAN5GHz U-NII-1/2A/2C/3 and WLAN 6GHz U-NII-5/6/7/8. 17. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.	



FCC SAR Test Report

Report No. : FA460505

<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, 25, 30, 40
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
	n66	FDD	15	5, 10, 15, 20, 30, 40
	n71	FDD	15	5, 10, 15, 20
	n38	TDD	30	20, 30, 40
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 20, 40
	n77	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
SA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40
	n12	FDD	15	5, 10, 15
	n13	FDD	15	5, 10
	n14	FDD	15	5, 10
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
	n26	FDD	15	5, 10, 15, 20
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 30, 40
	n71	FDD	15	5, 10, 15, 20
	n38	TDD	30	20, 30, 40
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 20, 40
	n77	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100

Specification of Accessory

AC Adapter 1 (Type C Wall Charger 1)	Brand Name	Zebra	Model	SAWA-102-22520A
			Part Number	PWR-WUA5V45W1US
AC Adapter 2 (Type A Wall Charger 2)	Brand Name	Zebra	Model	SAWA-65-20005A
			Part Number	PWR-WUA5V12W0US
Battery 1	Brand Name	Zebra	Model	BT-000501
			Part Number	BT-000501-2000
Earphone 1 (Wired headset USB-C)	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01
Earphone 2 (Rugged Bluetooth Headset)	Brand Name	Zebra	Part Number	HS3100-OTH
Earphone 3 (3.5mm PTT Headset)	Brand Name	Zebra	Part Number	HDST-35MM-PTT1-02
Earphone 4 (Rugged Headset)	Brand Name	Zebra	Part Number	HS2100-OTH
3.5mm to 3.5mm audio connector	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
Type C-Audio Cable (Type C to 3.5mm)	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
USB Cable 1 (USB-C to C Cable)	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
USB Cable 2 (USB-A to C Cable)	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
EM45 Protective Case	Brand Name	Zebra	Part Number	SG-EM45EXO1-01



4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																							
FCC ID	UZ7EM45A2																																																																						
Equipment Name	Enterprise Mobile																																																																						
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																																						
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																																						
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																																						
LTE Voice / Data requirements	Voice and Data																																																																						
LTE Release Version	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
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3																																																																							
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QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																																
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																
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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 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	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 and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 4 carriers in the downlink and 2 carriers in the uplink.																																																																						



FCC SAR Test Report

Report No. : FA460505

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)					
L	23205		779.5		23230		782					
M	23230		782									
H	23255		784.5									
LTE Band 14												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Channel #		Channel #		Freq.(MHz)					
L	23305		790.5		23330		793					
M	23330		793									
H	23355		795.5									
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)					
L	23755		706.5		23780		709					
M	23790		710		23790		710					
H	23825		713.5		23800		711					
LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	26765	821.5
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5	26965	841.5



FCC SAR Test Report

Report No. : FA460505

	LTE Band 30											
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)					
L	27685		2307.5		27710		2310					
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133247	675.5	133272	678	133297	680.5	133322	683				
H	133447	695.5	133422	693	133397	690.5	133372	688				
LTE Band 48												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
LM	55810	3607	55815	3607.5	55820	3608	55830	3609				
MH	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690				



<For LTE Overlap Bands Description>

1) LTE Bands BW

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

2) LTE Bands tune up:

Band	Antenna	Head DSI 2 Tune-up Limit	Hotspot DSI 1 RFID OFF Tune-up Limit	Hotspot DSI 4 RFID ON Tune-up Limit	Bodyworn Extremity DSI 0 RFID OFF Tune-up Limit	Bodyworn Extremity DSI 5 RFID ON Tune-up Limit	Default Tune-up Limit
LTE Band 66(4)	Ant 2	18.90	22.10	20.60	23.60	22.10	25.00
LTE Band 66(4)	Ant 5	25.00	23.00	21.50	25.00	23.50	25.00
LTE Band 12(17)	Ant 0	22.70	25.00	25.00	25.00	25.00	25.00
LTE Band 12(17)	Ant 1			24.00		24.00	24.00
LTE Band 26(5)	Ant 0	22.40	25.00	23.60	25.00	24.50	25.00
LTE Band 26(5)	Ant 1			23.60		24.00	24.00
LTE Band 41(38)	Ant 3	18.70	21.30	19.80	22.80	20.80	24.00
LTE Band 25(2)	Ant 2	19.60	21.70	20.20	23.20	21.70	25.00



4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information														
Operating Frequency Range of each 5G NR transmission band	5G NR n2 : 1850 MHz ~ 1910 MHz													
	5G NR n5 : 824 MHz ~ 849 MHz													
	5G NR n7 : 2500 MHz ~ 2570 MHz													
	5G NR n12 : 699 MHz ~ 716 MHz													
	5G NR n13 : 777 MHz ~ 787 MHz													
	5G NR n14 : 788 MHz ~ 798 MHz													
	5G NR n25 : 1850 MHz ~ 1915 MHz													
	5G NR n26 : 814 MHz ~ 849 MHz													
	5G NR n30 : 2305 MHz ~ 2315 MHz													
	5G NR n38 : 2570 MHz ~ 2620 MHz													
	5G NR n41 : 2496 MHz ~ 2690 MHz													
	5G NR n48 : 3550 MHz ~ 3700 MHz													
	5G NR n66 : 1710 MHz ~ 1780 MHz													
	5G NR n71 : 663 MHz ~ 698 MHz													
	5G NR n77: 3450MHz ~ 3980 MHz													
	5G NR n78: 3450MHz ~ 3800 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 B5/12/13/14/66/71													
LTE Anchor Bands for n5	LTE B2/48/66													
LTE Anchor Bands for n7	LTE B2/5/12/13/66													
LTE Anchor Bands for n12	LTE B2/66													
LTE Anchor Bands for n25	LTE B12/48/66													
LTE Anchor Bands for n38	LTE B2/4/5/12/66/71													
LTE Anchor Bands for n41	LTE B2/4/12/25/26/66													
LTE Anchor Bands for n48	LTE B2/5/13/66													
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/66/71													
LTE Anchor Bands for n71	LTE B2/7/66													
LTE Anchor Bands for n77	LTE B2/5/7/12/13/14/66													
LTE Anchor Bands for n78	LTE B2/4/5/7/12/13/38/66/71													
Transmission (H, M, L) channel numbers and frequencies in each 5G NR band														
NR Band 2														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz							
	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		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550
NR Band 12														
	Bandwidth 5MHz		Bandwidth 10MHz				Bandwidth 15MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	140300	701.5	140800	704	141300	706.5	141800	709	142300	711.5	142800	714	143300	716.5
M	141500	707.5	141500	707.5	141500	707.5	141500	707.5	141500	707.5	141500	707.5	141500	707.5
H	142700	713.5	142200	711	141700	708.5	141200	706	140700	704	140200	702	139700	700



FCC SAR Test Report

Report No. : FA460505

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

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

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

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

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

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

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

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

NR Band 41																		
Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	500202	2501.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	537000	2685	529998	2649.99	528996	2644.98	528000	2640

NR Band 48							
Bandwidth 10MHz		Bandwidth 20MHz		Bandwidth 40MHz			
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	637000	3555	637334	3560.01	638000	3570	
M	641666	3624.99	641666	3624.99	641666	3624.99	
H	646332	3694.98	646000	3690	645332	3679.98	



FCC SAR Test Report

Report No. : FA460505

NR Band 77																	
Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M 656000	3840	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H 664668	3970.02	664334	3965.01	664000	3960	663668	3955.02	663334	3950.01	663000	3945	662668	3940.02	662334	3935.01	662000	3930

NR Band 78																	
Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M 650000	3750	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H 652668	3790.02	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	651000	3765	650668	3760.02	650334	3755.01		

For <3450 MHz ~ 3550 MHz >

NR Band 77																	
Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 630668	3460.02	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M 633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H 636000	3540	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

NR Band 78																	
Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 630668	3460.02	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M 633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H 636000	3540	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

For Part96

NR Band 77																	
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 637334	3560.01	637668	3565.02	638000	3570	638334	3575.01	638668	3580.02	639000	3585	639334	3590.01	639668	3595.02	640000	3600
M 641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H 646000	3690	645666	3684.99	645332	3679.98	645000	3675	644666	3669.99	644332	3664.98	644000	3660	643666	3654.99	643332	3649.98

NR Band 78																	
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 637334	3560.01	637668	3565.02	638000	3570	638334	3575.01	638668	3580.02	639000	3585	639334	3590.01	639668	3595.02	640000	3600
M 641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H 646000	3690	645666	3684.99	645332	3679.98	645000	3675	644666	3669.99	644332	3664.98	644000	3660	643666	3654.99	643332	3649.98



<For NR Overlap Bands Description>

1) NR Bands BW

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

2) NR Bands Tune up:

Band	Antenna	Head DSI 2 Tune-up Limit	Hotspot DSI 1 RFID OFF Tune-up Limit	Hotspot DSI 4 RFID ON Tune-up Limit	Bodyworn Extremity DSI 0 RFID OFF Tune-up Limit	Bodyworn Extremity DSI 5 RFID ON Tune-up Limit	Default Tune-up Limit
FR1 n25(2)	Ant 2	19.6	21.7	20.2	23.2	21.2	25
FR1 n26(5)	Ant 0	22	25	23.6	25	23.6	25
FR1 n26(5)	Ant 1			23.6		23.6	24
FR1 n41(38)	Ant 3	17.1	18.9	17.4	20.8	18.8	24
FR1 n77(78) Part 270&27Q&96 PC3	Ant 4	15.4	23.2	21.7	23.2	21.7	24
FR1 n77(78) Part 270&27Q PC2	Ant 4	15.4	23.2	21.7	23.2	21.7	27
FR1 n77(78) Part 270 PC3	Ant 2	16.6	23	22.1	23	21.6	23
FR1 n77 Part 270 PC2	Ant 2	16.6	23.6	22.1	23.6	21.6	26
FR1 n78 Part 270 PC2	Ant 2	16.6	23.6	22.1	23.6	21.6	25
FR1 n77 Part 27Q PC3	Ant 2	16.6	23	22.1	23	21.6	23
FR1 n78 Part 27Q PC3	Ant 2	16.6	22	22	22	21.6	22
FR1 n77 Part 27Q PC2	Ant 2	16.6	23.6	22.1	23.6	21.6	25
FR1 n78 Part 27Q PC2	Ant 2	16.6	23.6	22.1	23.6	21.6	24
FR1 n77(78) Part 96 PC3	Ant 2	16.6	23	22.1	23	21.6	23
FR1 n77 Part 270 PC3	Ant 3	17.7	18.9	17.4	18.9	17.4	24
FR1 n78 Part 270 PC3	Ant 3	17.7	18.9	17.4	18.9	17.4	23
FR1 n77(78) Part 270 PC2	Ant 3	17.7	18.9	17.4	18.9	17.4	25
FR1 n77 Part 27Q PC3	Ant 3	17.7	18.9	17.4	18.9	17.4	23
FR1 n78 Part 27Q PC3	Ant 3	17.7	18.9	17.4	18.9	17.4	22
FR1 n77 Part 27Q PC2	Ant 3	17.7	18.9	17.4	18.9	17.4	25
FR1 n78 Part 27Q PC2	Ant 3	17.7	18.9	17.4	18.9	17.4	24
FR1 n77(78) Part 96 PC3	Ant 3	17.7	18.9	17.4	18.9	17.4	24
FR1 n77(78) Part 270&27Q&96 PC3	Ant 6	20.1	20.1	19.8	20.1	18.1	23
FR1 n77(78) Part 270&27Q PC2	Ant 6	20.1	20.1	19.8	20.1	18.1	26



5. Smart Transmit feature for RF Exposure compliance

The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR (transmit frequency ≤ 6 GHz). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

Note that WLAN/BT operations are not enabled with Smart Transmit.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) version 16 to enable the Smart Transmit (GEN1) Feature.

<Terminologies in this report>

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

<SAR Characterization>

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

<SAR design target and uncertainty>

Item	Uncertainty dB (k=2)
Total uncertainty	1.0

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

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



FCC SAR Test Report

Report No. : FA460505

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

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

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

Band	Antenna	Head DSI 2	Hotspot DSI 1 RFID OFF	Hotspot DSI 4 RFID ON	Body-Worn& Extremity DSI 0 RFID OFF	Body-Worn& Extremity DSI 5 RFID ON	Pmax*
WCDMA II	Ant 2	18.6	20.7	19.2	22.2	20.7	24.0
WCDMA IV	Ant 2	18.4	21.9	20.4	22.2	21.2	24.0
WCDMA V	Ant 0	21.7	24.8	23.5	24.8	23.5	24.0
WCDMA V	Ant 1			23.5		23.5	23.0
LTE Band 2	Ant 5	23.4	22.2	20.7	23.4	21.9	24.0
LTE Band 25(2)	Ant 2	18.6	20.7	19.2	22.2	20.7	24.0
LTE Band 66(4)	Ant 2	17.9	21.1	19.6	22.6	21.1	24.0
LTE Band 66(4)	Ant 5	24.0	22.0	20.5	24.0	22.5	24.0
LTE Band 26(5)	Ant 0	21.4	24.0	22.6	24.0	23.5	24.0
LTE Band 26(5)	Ant 1			22.6		23.5	23.0
LTE Band 7	Ant 3	15.9	18.4	16.9	19.9	18.4	23.0
LTE Band 12(17)	Ant 0	21.7	26.0	24.0	26.0	24.0	24.0
LTE Band 12(17)	Ant 1			24.0		24.0	23.0
LTE Band 13	Ant 0	21.4	25.6	24.0	25.6	24.0	24.0
LTE Band 13	Ant 1			24.0		24.0	23.0
LTE Band 14	Ant 0	21.4	24.9	23.4	24.9	24.0	24.0
LTE Band 14	Ant 1			23.4		24.0	23.0
LTE Band 30	Ant 3	15.2	19.4	17.9	19.4	17.4	24.0
LTE Band 71	Ant 0	21.9	24.7	23.0	24.7	23.0	23.0
LTE Band 71	Ant 1			23.0		23.0	22.5
LTE Band 41(38)	Ant 3	15.7	18.3	16.8	19.8	17.8	21.0
LTE Band 41 HPUE	Ant 3	15.7	18.3	16.8	19.8	17.8	22.4
LTE Band 48	Ant 4	15.2	20.0	19.5	20.0	19.5	20.0
FR1 n26(5)	Ant 0	21	24.1	22.6	24.1	22.6	24.0
FR1 n26(5)	Ant 1			22.6		22.6	23.0
FR1 n7	Ant 3	16.4	17.7	16.2	20.8	18.8	23.0
FR1 n12	Ant 0	21.4	24.5	23.4	24.5	23.4	24.0
FR1 n12	Ant 1			23.4		23.4	23.0
FR1 n13	Ant 0	21.4	24.2	23.4	24.2	23.4	24.0
FR1 n13	Ant 1			23.4		23.4	23.0
FR1 n14	Ant 0	21.4	24.2	23.4	24.2	23.4	24.0
FR1 n14	Ant 1			23.4		23.4	23.0
FR1 n25(2)	Ant 2	18.6	20.7	19.2	22.2	20.2	24.0
FR1 n25	Ant 5	23.4	22.7	21.2	23.4	21.9	24.0
FR1 n30	Ant 3	15.2	19.6	18.6	19.7	17.7	24.0
FR1 n66	Ant 2	18.7	21.1	19.6	22.6	21.6	24.0
FR1 n66	Ant 5	24.0	23.2	21.5	24.0	23.0	24.0
FR1 n71	Ant 0	21.4	24.7	23.4	24.7	23.0	23.0
FR1 n71	Ant 1			23.4		23.0	23.0
FR1 n41(38)	Ant 3	16.1	17.9	16.4	19.8	17.8	23.0
FR1 n41 HPUE	Ant 3	16.1	17.9	16.4	19.8	17.8	26.0
FR1 n41	Ant 0	16.3	21.0	19.5	21.0	19.5	23.0
FR1 n41 HPUE	Ant 0	16.3	21.0	19.5	21.0	19.5	25.0
FR1 n41	Ant 5	19.4	20.4	18.9	19.4	17.4	22.0
FR1 n41 HPUE	Ant 5	19.4	20.4	18.9	19.4	17.4	24.0
FR1 n41	Ant 6	19.3	19.1	17.3	19.3	17.3	22.0



FCC SAR Test Report

Report No. : FA460505

FR1 n41 HPUE	Ant 6	19.3	19.1	17.3	19.3	17.3	24.0
FR1 n48	Ant 4	14.9	21.3	19.8	21.3	19.8	22.0
FR1 n77(78) Part 27O&27Q&96 PC3	Ant 4	14.4	22.2	20.7	22.2	20.7	23.0
FR1 n77(78) Part 27O&27Q PC2	Ant 4	14.4	22.2	20.7	22.2	20.7	26.0
FR1 n77(78) Part 27O PC3	Ant 2	15.6	22.6	21.1	22.6	20.6	22.0
FR1 n77 Part 27O PC2	Ant 2	15.6	22.6	21.1	22.6	20.6	25.0
FR1 n78 Part 27O PC2	Ant 2	15.6	22.6	21.1	22.6	20.6	24.0
FR1 n77 Part 27Q PC3	Ant 2	15.6	22.6	21.1	22.6	20.6	22.0
FR1 n78 Part 27Q PC3	Ant 2	15.6	22.6	21.1	22.6	20.6	21.0
FR1 n77 Part 27Q PC2	Ant 2	15.6	22.6	21.1	22.6	20.6	24.0
FR1 n78 Part 27Q PC2	Ant 2	15.6	22.6	21.1	22.6	20.6	23.0
FR1 n77(78) Part 96 PC3	Ant 2	15.6	22.6	21.1	22.6	20.6	22.0
FR1 n77 Part 27O PC3	Ant 3	16.7	17.9	16.4	17.9	16.4	23.0
FR1 n78 Part 27O PC3	Ant 3	16.7	17.9	16.4	17.9	16.4	22.0
FR1 n77(78) Part 27O PC2	Ant 3	16.7	17.9	16.4	17.9	16.4	24.0
FR1 n77 Part 27Q PC3	Ant 3	16.7	17.9	16.4	17.9	16.4	22.0
FR1 n78 Part 27Q PC3	Ant 3	16.7	17.9	16.4	17.9	16.4	21.0
FR1 n77 Part 27Q PC2	Ant 3	16.7	17.9	16.4	17.9	16.4	24.0
FR1 n78 Part 27Q PC2	Ant 3	16.7	17.9	16.4	17.9	16.4	23.0
FR1 n77(78) Part 96 PC3	Ant 3	16.7	17.9	16.4	17.9	16.4	23.0
FR1 n77(78) Part 27O&27Q&96 PC3	Ant 6	19.1	20.3	18.8	19.1	17.1	22.0
FR1 n77(78) Part 27O&27Q PC2	Ant 6	19.1	20.3	18.8	19.1	17.1	25.0

Note:

- 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + 1.0 dB device uncertainty.
- 2) All Plimit power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., LTE TDD & NR TDD).
- 3) The max allowed output power is the Plimit + 1.0 dB device uncertainty, and if Plimit is higher than P_{max}, the device output power will be P_{max} instead.
- 4) When P-light sensor is used to detect the user who take the device close to head, or during the voice call is established and audio is actively routed through the earpiece receiver (earpiece is ON) while P-light sensor be detected Phone close to Head, therefore RFID is turned off. When the RFID is turned off, then WWAN ant1 cannot be transmitted. When the RFID is active, then WWAN ant1 can be transmitted.



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:

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

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

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

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



8.1 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.

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



9.4 Zoom Scan

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

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

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> 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	2022/2/24	2025/2/21
SPEAG	835MHz System Validation Kit	D835V2	4d091	2022/8/19	2025/8/18
SPEAG	900MHz System Validation Kit	D900V2	1d186	2022/2/3	2025/2/1
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2022/2/24	2025/2/22
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	2022/3/30	2025/3/28
SPEAG	2300MHz System Validation Kit	D2300V2	1055	2023/8/21	2024/8/20
SPEAG	2450MHz System Validation Kit	D2450V2	1095	2024/2/8	2025/2/7
SPEAG	2600MHz System Validation Kit	D2600V2	1112	2023/12/18	2024/12/17
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2023/11/20	2024/11/19
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2023/11/20	2024/11/19
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2026/3/8
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/22
SPEAG	Data Acquisition Electronics	DAE4	1650	2023/9/13	2024/9/12
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	2024/1/22	2025/1/21
SPEAG	SAM Twin Phantom	SAM Twin	TP-1842	NCR	NCR
SPEAG	SAM Twin Phantom	SAM Twin	TP-1697	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2024/7/4	2025/7/3
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	2024/7/4	2025/7/3
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	2024/2/19	2025/2/18
Anritsu	Vector Signal Generator	MG3710A	6201682672	2024/1/2	2025/1/1
Rohde & Schwarz	Power Meter	NRVD	102081	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2024/7/4	2025/7/3
R&S	BLUETOOTH TESTER	CBT	101246	2024/7/4	2025/7/3
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2023/10/11	2024/10/10
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
TES	DIGITAC THERMOMETER	TYPE-K	220305411	Note 1	
SPEAG	Device Holder	N/A	N/A	Note 1	
ARRA	Power Divider	A3200-2	N/A	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	
Weinschel	Attenuator 1	3M-10	N/A	Note 1	
Weinschel	Attenuator 2	3M-20	N/A	Note 1	

Note:

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



11. System Verification

11.1 Tissue Simulating Liquids

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

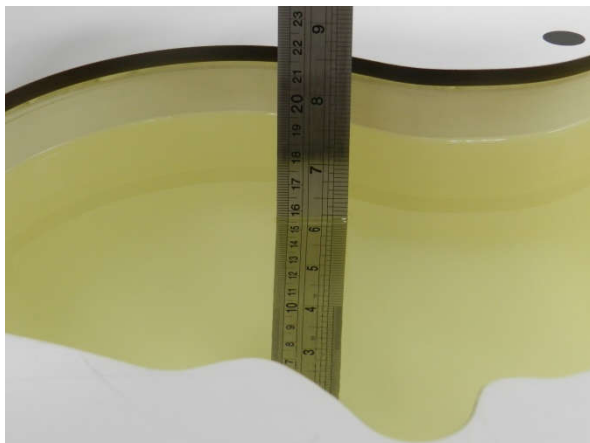


Fig 11.1 Photo of Liquid Height for Head SAR



Fig 11.2 Photo of Liquid Height for Body SAR

11.2 Tissue Verification

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

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (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	0.900	41.192	0.89	41.90	1.12	-1.69	±5	2024/8/16
835	Head	22.9	0.902	41.240	0.90	41.50	0.22	-0.63	±5	2024/8/17
1750	Head	22.8	1.409	40.669	1.37	40.10	2.85	1.42	±5	2024/7/6
1900	Head	22.6	1.397	39.035	1.40	40.00	-0.21	-2.41	±5	2024/7/7
2300	Head	22.8	1.715	38.769	1.67	39.50	2.69	-1.85	±5	2024/7/8
2600	Head	22.7	1.926	38.230	1.96	39.00	-1.73	-1.97	±5	2024/7/9
3500	Head	22.9	2.784	38.912	2.91	37.90	-4.33	2.67	±5	2024/7/10
3700	Head	22.6	2.988	38.360	3.12	37.70	-4.23	1.75	±5	2024/7/11
3900	Head	22.7	3.171	38.038	3.32	37.50	-4.49	1.43	±5	2024/7/12
750	Head	22.6	0.888	42.260	0.89	41.90	-0.22	0.86	±5	2024/8/18
835	Head	22.6	0.912	41.936	0.90	41.50	1.33	1.05	±5	2024/8/17
1750	Head	22.5	1.317	40.225	1.37	40.10	-3.87	0.31	±5	2024/7/14
1900	Head	22.8	1.407	40.199	1.40	40.00	0.50	0.50	±5	2024/7/15
2300	Head	22.9	1.622	38.516	1.67	39.50	-2.87	-2.49	±5	2024/7/16
2600	Head	22.8	2.030	40.355	1.96	39.00	3.57	3.47	±5	2024/7/17
3500	Head	22.7	2.813	38.735	2.91	37.90	-3.33	2.20	±5	2024/7/18
3700	Head	22.9	2.991	38.382	3.12	37.70	-4.13	1.81	±5	2024/7/19
3900	Head	22.8	3.175	38.058	3.32	37.50	-4.37	1.49	±5	2024/7/20
2450	Head	22.8	1.744	39.267	1.80	39.20	-3.11	0.17	±5	2024/7/21
5250	Head	22.7	4.573	35.720	4.71	35.90	-2.91	-0.50	±5	2024/8/20
5600	Head	22.8	4.997	35.371	5.07	35.50	-1.44	-0.36	±5	2024/8/21
5750	Head	22.9	5.105	34.869	5.22	35.40	-2.20	-1.50	±5	2024/8/22
900	Head	22.7	0.929	42.108	0.97	41.50	-4.23	1.47	±5	2024/8/23



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 (%)
2024/8/16	750	Head	50	1087	3857	1650	0.436	8.58	8.72	1.63
2024/8/17	835	Head	50	4d091	3857	1650	0.461	9.45	9.22	-2.43
2024/7/6	1750	Head	50	1090	3857	1650	1.910	37.00	38.2	3.24
2024/7/7	1900	Head	50	5d118	3857	1650	2.020	39.30	40.4	2.80
2024/7/8	2300	Head	50	1055	3857	1650	2.530	48.40	50.6	4.55
2024/7/9	2600	Head	50	1112	3857	1650	2.630	55.10	52.6	-4.54
2024/7/10	3500	Head	50	1037	3857	1650	3.030	65.40	60.6	-7.34
2024/7/11	3700	Head	50	1008	3857	1650	3.110	67.20	62.2	-7.44
2024/7/12	3900	Head	50	1048	3857	1650	3.270	69.10	65.4	-5.35
2024/8/18	750	Head	50	1087	3857	1650	0.419	8.58	8.38	-2.33
2024/8/19	835	Head	50	4d091	3857	1650	0.477	9.45	9.54	0.95
2024/7/14	1750	Head	50	1090	3857	1650	1.760	37.00	35.2	-4.86
2024/7/15	1900	Head	50	5d118	3857	1650	1.810	39.30	36.2	-7.89
2024/7/16	2300	Head	50	1055	3857	1650	2.390	48.40	47.8	-1.24
2024/7/17	2600	Head	50	1112	3857	1650	2.690	55.10	53.8	-2.36
2024/7/18	3500	Head	50	1037	3857	1650	3.120	65.40	62.4	-4.59
2024/7/19	3700	Head	50	1008	3857	1650	3.350	67.20	67	-0.30
2024/7/20	3900	Head	50	1048	3857	1650	3.650	69.10	73	5.64
2024/7/21	2450	Head	50	1095	3857	1650	2.670	52.60	53.4	1.52
2024/8/20	5250	Head	50	1113	3857	1650	4.170	81.50	83.4	2.33
2024/8/21	5600	Head	50	1113	3857	1650	4.420	82.60	88.4	7.02
2024/8/22	5750	Head	50	1113	3857	1650	4.080	80.80	81.6	0.99
2024/8/23	900	Head	50	1d186	3857	1650	0.508	10.90	10.16	-6.79



<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 (%)
2024/8/16	750	Head	50	1087	3857	1650	0.293	5.65	5.86	3.72
2024/8/17	835	Head	50	4d091	3857	1650	0.307	6.22	6.14	-1.29
2024/7/6	1750	Head	50	1090	3857	1650	0.998	19.50	19.96	2.36
2024/7/7	1900	Head	50	5d118	3857	1650	1.070	20.40	21.4	4.90
2024/7/8	2300	Head	50	1055	3857	1650	1.270	23.70	25.4	7.17
2024/7/9	2600	Head	50	1112	3857	1650	1.200	24.80	24	-3.23
2024/7/10	3500	Head	50	1037	3857	1650	1.180	24.70	23.6	-4.45
2024/7/11	3700	Head	50	1008	3857	1650	1.130	24.40	22.6	-7.38
2024/7/12	3900	Head	50	1048	3857	1650	1.150	24.10	23	-4.56
2024/8/18	750	Head	50	1087	3857	1650	0.295	5.65	5.9	4.42
2024/8/19	835	Head	50	4d091	3857	1650	0.313	6.22	6.26	0.64
2024/7/14	1750	Head	50	1090	3857	1650	0.975	19.50	19.5	0.00
2024/7/15	1900	Head	50	5d118	3857	1650	0.958	20.40	19.16	-6.08
2024/7/16	2300	Head	50	1055	3857	1650	1.160	23.70	23.2	-2.11
2024/7/17	2600	Head	50	1112	3857	1650	1.240	24.80	24.8	0.00
2024/7/18	3500	Head	50	1037	3857	1650	1.200	24.70	24	-2.83
2024/7/19	3700	Head	50	1008	3857	1650	1.240	24.40	24.8	1.64
2024/7/20	3900	Head	50	1048	3857	1650	1.230	24.10	24.6	2.07
2024/7/21	2450	Head	50	1095	3857	1650	1.260	24.70	25.2	2.02
2024/8/20	5250	Head	50	1113	3857	1650	1.220	23.30	24.4	4.72
2024/8/21	5600	Head	50	1113	3857	1650	1.200	23.70	24	1.27
2024/8/22	5750	Head	50	1113	3857	1650	1.180	23.00	23.6	2.61
2024/8/23	900	Head	50	1d186	3857	1650	0.330	7.02	6.6	-5.98

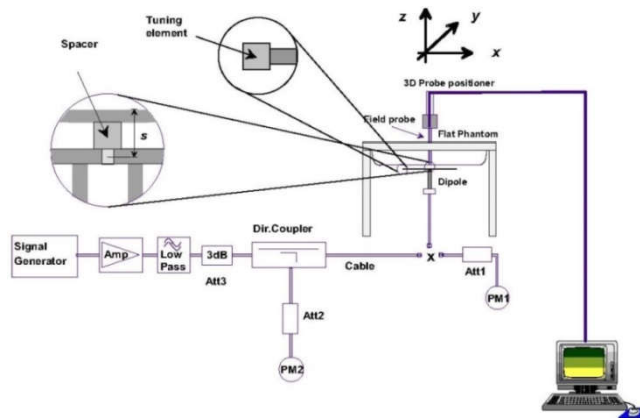


Fig 11.3.1 System Performance Check Setup



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.

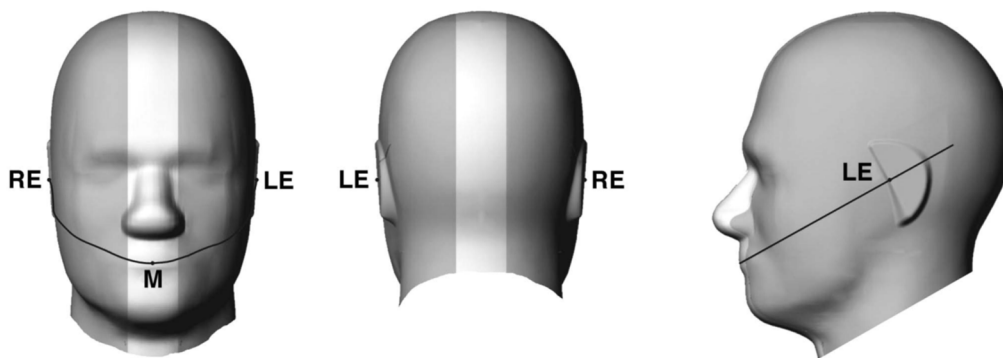


Fig 12.1.1 Front, back, and side views of SAM twin phantom

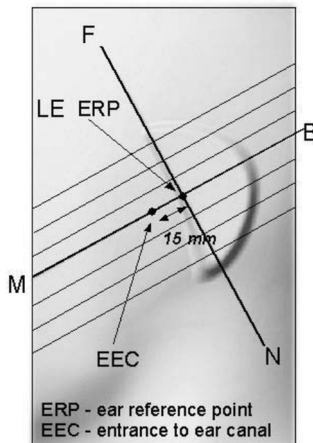


Fig 12.1.2 Close-up side view of phantom showing the ear region.

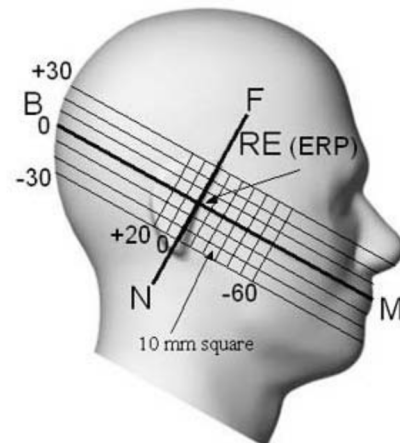


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations



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 handset. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.

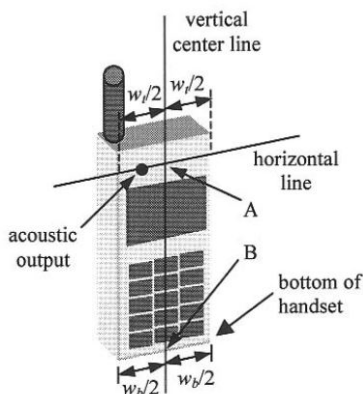


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

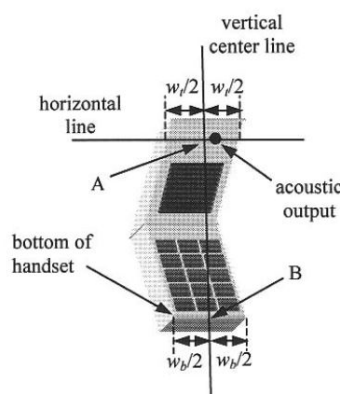


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

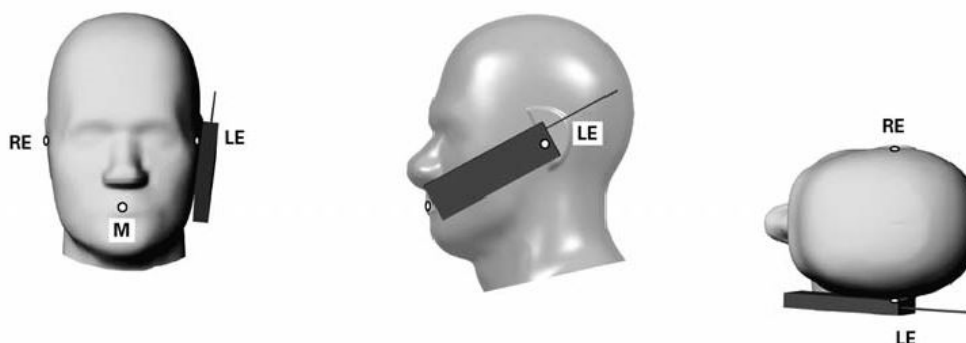


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.



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

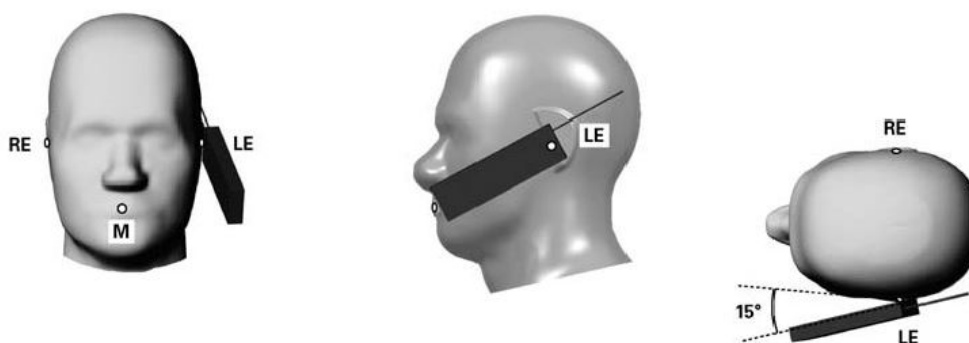


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.



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.

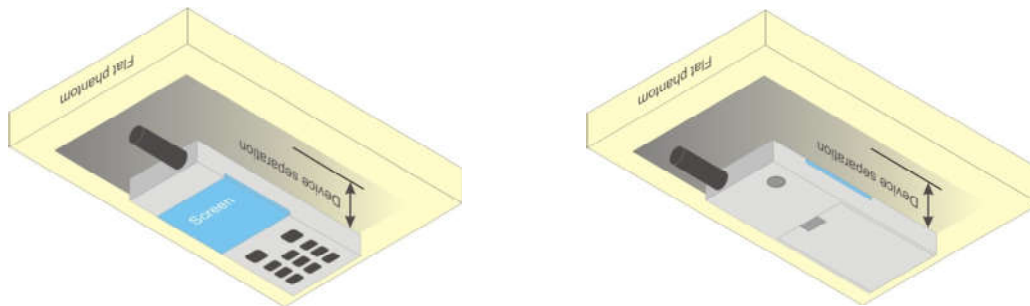


Fig 12.4 Body Worn Position



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.

13.1 DL/UL Carrier Aggregation

<LTE Carrier Aggregation>

General Note:

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

2CC Downlink Carrier Aggregation				3CC Downlink Carrier Aggregation				4CC Downlink Carrier Aggregation			
Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset
1	CA_2C	2A	3CC-29	1	CA_41D	41A	4CC-41	1	CA_48E	48A	
2	CA_5B		3CC-19	2	CA_48D	48A	4CC-14	2	CA_41E	41A	
3	CA_7B	7A		3	CA_66D	66A	4CC-16	3	CA_48C-48C	48A	
4	CA_7C	7A	3CC-21	4	CA_41A-41C	41A		4	CA_2A-2A-4A-4A	2A 4A	
5	CA_12B		3CC-59	5	CA_48A-48C	48A	4CC-10	5	CA_2A-2A-12A-12A	2A	
6	CA_38C	38A		6	CA_66A-66B	66A	4CC-12	6	CA_2A-2A-12B	2A	
7	CA_41C	41A	3CC-4	7	CA_66A-66C	66A	4CC-13	7	CA_2A-2A-66A-66A	2A 66A	
8	CA_48C	48A	3CC-5	8	CA_2A-2A-4A	2A 4A	4CC-4	8	CA_2A-2A-66B	2A 66A	
9	CA_66B	66A	3CC-6	9	CA_2A-2A-5A	2A	4CC-49	9	CA_2A-2A-66C	2A 66A	
10	CA_66C	66A	3CC-7	10	CA_2A-2A-7A	2A 7A	4CC-54	10	CA_2A-48A-48C	2A 48A	
11	CA_2A-2A	2A	3CC-8	11	CA_2A-2A-12A	2A	4CC-5	11	CA_2A-66A-66A-66A	2A 66A	
12	CA_4A-4A	4A	3CC-34	12	CA_2A-2A-13A	2A	4CC-58	12	CA_2A-66A-66B	2A 66A	
13	CA_5A-5A		3CC-25	13	CA_2A-2A-14A	2A	4CC-59	13	CA_2A-66A-66C	2A 66A	
14	CA_7A-7A	7A	3CC-20	14	CA_2A-2A-29A	2A	4CC-61	14	CA_48A-48D	48A	
15	CA_12A-12A		3CC-44	15	CA_2A-2A-30A	2A 30A	4CC-52	15	CA_2A-48D	2A 48A	
16	CA_25A-25A	25A	3CC-66	16	CA_2A-2A-66A	2A 66A	4CC-7	16	CA_2A-66D	2A 66A	
17	CA_48A-48A	48A	3CC-24	17	CA_2A-2A-71A	2A	4CC-51	17	CA_4A-4A-5B	4A	
18	CA_66A-66A	66A	3CC-26	18	CA_2A-4A-4A	2A 4A	4CC-4	18	CA_4A-4A-12A-12A	4A	
19	CA_2A-4A	2A 4A	3CC-18	19	CA_2A-5B	2A	4CC-20	19	CA_4A-4A-12B	4A	
20	CA_2A-5A	2A	3CC-9	20	CA_2A-7A-7A	2A 7A	4CC-104	20	CA_2A-4A-5B	2A 4A	
21	CA_2A-7A	2A	3CC-10	21	CA_2A-7C	2A 7A	4CC-67	21	CA_2A-66C-71A	2A 66A	
22	CA_2A-12A	2A	3CC-11	22	CA_2A-12A-12A	2A	4CC-5	22	CA_2C-5A-30A	2A 30A	
23	CA_2A-13A	2A	3CC-12	23	CA_2A-12B	2A	4CC-6	23	CA_2C-12A-30A	2A 30A	
24	CA_2A-14A	2A	3CC-13	24	CA_2A-48A-48A	2A 48A		24	CA_2C-29A-30A	2A 30A	
25	CA_2A-17A	2A		25	CA_2A-48C	2A 48A	4CC-98	25	CA_5A-5A-66A-66A	66A	
26	CA_2A-29A	2A	3CC-14	26	CA_2A-66A-66A	2A 66A	4CC-7	26	CA_5A-5A-66B	66A	
27	CA_2A-30A	2A 30A	3CC-15	27	CA_2A-66B	2A 66A	4CC-8	27	CA_5A-5A-66C	66A	
28	CA_2A-48A	2A 48A	3CC-24	28	CA_2A-66C	2A 66A	4CC-9	28	CA_5A-66A-66C	66A	
29	CA_2A-66A	2A 66A	3CC-16	29	CA_2C-5A	2A	4CC-22	29	CA_5A-66A-66B	66A	
30	CA_2A-71A	2A	3CC-17	30	CA_2C-12A	2A	4CC-23	30	CA_5A-66D	66A	
31	CA_4A-5A	4A	3CC-34	31	CA_2C-29A	2A	4CC-24	31	CA_5B-66A-66A	66A	
32	CA_4A-7A	4A 7A	3CC-35	32	CA_2C-30A	2A 30A	4CC-24	32	CA_5B-66B	66A	
33	CA_4A-12A	4A	3CC-36	33	CA_2C-66A	2A 66A	4CC-107	33	CA_5B-66C	66A	



FCC SAR Test Report

Report No. : FA460505

34	CA_4A-13A	4A	3CC-37	34	CA_4A-4A-5A	4A	4CC-64	34	CA_7C-66A-66A	7A 66A	
35	CA_4A-17A	4A		35	CA_4A-4A-7A	4A 7A		35	CA_12B-66A-66A	66A	
36	CA_4A-29A	4A	3CC-102	36	CA_4A-4A-12A	4A	4CC-65	36	CA_13A-48A-48C	48A	
37	CA_4A-30A	4A 30A	3CC-39	37	CA_4A-4A-13A	4A		37	CA_13A-48D	48A	
38	CA_4A-71A	4A	3CC-40	38	CA_4A-4A-29A	4A	4CC-86	38	CA_13A-66A-66B	66A	
39	CA_5A-7A	7A	3CC-48	39	CA_4A-4A-30A	4A 30A	4CC-86	39	CA_13A-66A-66C	66A	
40	CA_5A-25A	25A		40	CA_4A-4A-71A	4A		40	CA_13A-66D	66A	
41	CA_5A-30A	30A	3CC-103	41	CA_4A-5B	4A	4CC-17	41	CA_25A-41D	41A	
42	CA_5A-38A	38A		42	CA_4A-7A-7A	4A 7A		42	CA_48A-48A-66A-66A	48A 66A	
43	CA_5A-41A	41A		43	CA_4A-7C	4A 7A	4CC-67	43	CA_48A-48A-66B	48A 66A	
44	CA_5A-48A	48A	3CC-111	44	CA_4A-12A-12A	4A	4CC-18	44	CA_48A-48A-66C	48A 66A	
45	CA_5A-66A	66A	3CC-49	45	CA_4A-12B	4A	4CC-19	45	CA_48A-48C-66A	48A 66A	
46	CA_7A-12A	7A	3CC-104	46	CA_4A-48C	4A 48A		46	CA_48C-66B	48A 66A	
47	CA_7A-26A	7A		47	CA_5A-5A-66A	66A	4CC-25	47	CA_48C-66C	48A 66A	
48	CA_12A-25A	25A		48	CA_5A-7A-7A	7A		48	CA_48D-66A	48A 66A	
49	CA_12A-30A	30A	3CC-105	49	CA_5A-66A-66A	66A	4CC-25	49	CA_2A-2A-4A-5A	2A 4A	
50	CA_12A-66A	66A	3CC-75	50	CA_5A-66B	66A	4CC-26	50	CA_2A-2A-4A-12A	2A 4A	
51	CA_13A-48A	48A	3CC-60	51	CA_5A-66C	66A	4CC-28	51	CA_2A-2A-4A-71A	2A 4A	
52	CA_13A-66A	66A	3CC-62	52	CA_5B-30A	30A	4CC-72	52	CA_2A-2A-5A-30A	2A 30A	
53	CA_14A-30A	30A	3CC-107	53	CA_5B-66A	66A	4CC-73	53	CA_2A-2A-5A-66A	2A 66A	
54	CA_14A-66A	66A	3CC-107	54	CA_7A-7A-26A	7A		54	CA_2A-2A-7A-12A	2A 7A	
55	CA_25A-26A	25A	3CC-66	55	CA_7A-12B	7A	4CC-90	55	CA_2A-2A-7A-66A	2A 7A 66A	
56	CA_29A-30A	30A	3CC-94	56	CA_7A-66A-66A	7A 66A	4CC-112	56	CA_2A-2A-12A-30A	2A 30A	
57	CA_29A-66A	66A	3CC-67	57	CA_7C-66A	7A	4CC-113	57	CA_2A-2A-12A-66A	2A 66A	
58	CA_30A-66A	30A 66A	3CC-68	58	CA_12A-66C	66A	4CC-76	58	CA_2A-2A-13A-66A	2A 66A	
59	CA_48A-66A	48A 66A	3CC-69	59	CA_12B-66A	66A	4CC-90	59	CA_2A-2A-14A-30A	2A 30A	
60	CA_48A-71A	48A	3CC-70	60	CA_13A-48A-48A	48A		60	CA_2A-2A-14A-66A	2A 66A	
61	CA_4A-48A	4A 48A		61	CA_13A-48C	48A	4CC-98	61	CA_2A-2A-29A-30A	2A 30A	
62	CA_7A-13A	7A	3CC-113	62	CA_13A-66A-66A	66A	4CC-78	62	CA_2A-2A-30A-66A	2A 30A 66A	
63	CA_7A-29A	7A	3CC-122	63	CA_13A-66B	66A	4CC-79	63	CA_2A-2A-66A-71A	2A 66A	
64	CA_7A-66A	7A 66A	3CC-88	64	CA_13A-66C	66A	4CC-80	64	CA_2A-4A-4A-5A	2A 4A	
65	CA_66A-71A	66A	3CC-76	65	CA_14A-66A-66A	66A	4CC-93	65	CA_2A-4A-4A-12A	2A 4A	
				66	CA_25A-25A-26A	25A		66	CA_2A-4A-7A-7A	2A 4A 7A	
				67	CA_29A-66A-66A	66A		67	CA_2A-4A-7C	2A 4A 7A	
				68	CA_30A-66A-66A	30A 66A	4CC-91	68	CA_2A-4A-12B	2A 4A	
				69	CA_48A-48A-66A	48A 66A	4CC-100	69	CA_2A-5A-66A-66A	2A 66A	
				70	CA_48A-48A-71A	48A		70	CA_2A-5A-66B	2A 66A	
				71	CA_48A-66B	48A 66A	4CC-43	71	CA_2A-5A-66C	2A 66A	
				72	CA_48A-66C	48A 66A	4CC-44	72	CA_2A-5B-30A	2A 30A	
				73	CA_48C-66A	48A 66A	4CC-45	73	CA_2A-5B-66A	2A 66A	
				74	CA_48C-71A	48A		74	CA_2A-7A-12B	2A 7A	
				75	CA_12A-66A-66A	66A	4CC-75	75	CA_2A-12A-66A-66A	2A 66A	
				76	CA_66A-66A-71A	66A	4CC-83	76	CA_2A-12A-66C	2A 66A	
				77	CA_66C-71A	66A	4CC-21	77	CA_2A-12B-66A	2A 66A	
				78	CA_2A-4A-5A	2A 4A	4CC-64	78	CA_2A-13A-66A-66A	2A 66A	
				79	CA_2A-4A-7A	2A 4A	4CC-66	79	CA_2A-13A-66B	2A 66A	
				80	CA_2A-4A-12A	2A 4A	4CC-65	80	CA_2A-13A-66C	2A 66A	
				81	CA_2A-4A-13A	2A 4A		81	CA_2A-14A-66A-66A	2A 66A	
				82	CA_2A-4A-29A	2A 4A		82	CA_2A-30A-66A-66A	2A 30A 66A	
				83	CA_2A-4A-30A	2A 4A 30A		83	CA_2A-66A-66A-71A	2A 66A	
				84	CA_2A-4A-71A	2A 4A	4CC-51	84	CA_4A-4A-5A-30A	4A 30A	
				85	CA_2A-5A-30A	2A 30A	4CC-52	85	CA_4A-4A-12A-30A	4A 30A	
				86	CA_2A-5A-66A	2A 66A	4CC-69	86	CA_4A-4A-29A-30A	4A 30A	
				87	CA_2A-7A-12A	2A 7A	4CC-54	87	CA_4A-5B-30A	4A 30A	
				88	CA_2A-7A-66A	2A 7A 66A	4CC-55	88	CA_5A-30A-66A-66A	30A 66A	
				89	CA_2A-12A-30A	2A 30A	4CC-56	89	CA_5B-30A-66A	30A 66A	



FCC SAR Test Report

Report No. : FA460505

				90	CA_2A-12A-66A	2A 66A	4CC-75	90	CA_7A-12B-66A	7A 66A		
				91	CA_2A-13A-66A	2A 66A	4CC-78	91	CA_12A-30A-66A-66A	30A 66A		
				92	CA_2A-14A-30A	2A 30A	4CC-59	92	CA_13A-48C-66A	48A 66A		
				93	CA_2A-14A-66A	2A 66A	4CC-60	93	CA_14A-30A-66A-66A	30A 66A		
				94	CA_2A-29A-30A	2A 30A	4CC-61	94	CA_29A-30A-66A-66A	30A 66A		
				95	CA_2A-29A-66A	2A 66A		95	CA_13A-48A-66B	48A 66A		
				96	CA_2A-30A-66A	2A 30A 66A	4CC-62	96	CA_13A-48A-66C	48A 66A		
				97	CA_2A-48A-66A	2A 48A 66A	4CC-100	97	CA_14A-66A-66A-66A	66A		
				98	CA_2A-66A-71A	2A 66A	4CC-63	98	CA_2A-13A-48C	2A 48A		
				99	CA_4A-5A-30A	4A 30A	4CC-84	99	CA_2A-2A-5B	2A		
				100	CA_4A-7A-12A	4A 7A		100	CA_2A-48A-66A-66A	2A 48A 66A		
				101	CA_4A-12A-30A	4A 30A	4CC-85	101	CA_2A-48C-66A	2A 48A 66A		
				102	CA_4A-29A-30A	4A 30A	4CC-86	102	CA_2A-5A-48C	2A 48A		
				103	CA_5A-30A-66A	30A 66A	4CC-88	103	CA_2A-7A-66A-66A	2A 7A 66A		
				104	CA_7A-12A-66A	7A 66A		104	CA_2A-7A-7A-13A	2A 7A		
				105	CA_12A-30A-66A	30A 66A	4CC-91	105	CA_2A-7A-7A-29A	2A 7A		
				106	CA_13A-48A-66A	48A 66A		106	CA_2A-7A-7A-66A	2A 7A 66A		
				107	CA_14A-30A-66A	30A 66A	4CC-93	107	CA_2C-66A-66A	2A 66A		
				108	CA_29A-30A-66A	30A 66A	4CC-94	108	CA_48C-66A-66A	48A 66A		
				109	CA_25A-25A-25A	25A		109	CA_4A-48D	48A		
				110	CA_2A-13A-48A	2A 48A		110	CA_5A-48C-66A	48A 66A		
				111	CA_2A-5A-48A	2A 48A		111	CA_5A-48D	48A		
				112	CA_2A-5A-7A	2A 7A		112	CA_5A-7A-66A-66A	7A 66A		
				113	CA_2A-7A-13A	2A 7A	4CC-104	113	CA_5A-7C-66A	7A 66A		
				114	CA_5A-48A-66A	48A 66A		114	CA_7A-7A-29A-66A	7A 66A		
				115	CA_5A-7A-66A	7A 66A	4CC-112	115	CA_7A-7A-66A-66A	7A 66A		
				116	CA_66A-66A-66A	66A	4CC-97	116	CA_7C-29A-66A	7A 66A		
				117	CA_2A-7C-13A	2A 7A						
				118	CA_2A-7C-29A	2A 7A						
				119	CA_2A-7C-66A	2A 7A 66A						
				120	CA_7A-29A-66A	7A 66A	4CC-114					
				121	CA_7A-7A-13A	7A	4CC-104					
				122	CA_7A-7A-29A	7A	4CC-114					
				123	CA_7A-7A-66A	7A 66A	4CC-115					
				124	CA_7C-13A	7A						
				125	CA_7C-29A	7A	4CC-116					
				126	CA_48A-66A-66A	48A 66A	4CC-100					
				127	CA_5A-48C	48A	4CC-110					
				128	CA_5A-7C	7A	4CC-113					



<2CA DL Power>

CA List	PCC									SCC					Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq.	Channel		RB	Offset		Band	(MHz)	Freq.	Channel		Tx. Power	Tx. Power
			(MHz)	(MHz)								(dBm)			(dBm)	
CA_2A-17A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 17	10M	740	5790		23.52	23.66
	Band 17	Ant 0	10M	710	23790	QPSK	1	0		Band 2	20M	1960	900	4X4 MIMO	23.64	23.82
CA_4A-17A	Band 4	Ant 2	10M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 17	10M	740	5790		23.40	23.56
	Band 17	Ant 0	10M	710	23790	QPSK	1	0		Band 4	10M	1732.5	2175	4X4 MIMO	23.70	23.82
CA_4A-48A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 48	20M	3609	55830	4X4 MIMO	23.37	23.56
	Band 48	Ant 4	20M	3609	55830	QPSK	1	0	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	21.70	21.90
CA_5A-25A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 25	20M	1960	8340	4X4 MIMO	23.58	23.70
	Band 25	Ant 2	20M	1880	26340	QPSK	1	0	4X4 MIMO	Band 5	10M	881.5	2525		23.40	23.60
CA_5A-38A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 38	20M	2595	38000	4X4 MIMO	23.52	23.70
CA_5A-41A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4X4 MIMO	23.53	23.70
CA_7A-26A	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 26	15M	876.5	8865		22.66	22.80
	Band 26	Ant 0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4X4 MIMO	23.48	23.62
CA_7B	Band 7	Ant 3	15M	2535	21100	QPSK	1	0	4X4 MIMO	Band 7	5M	2544.3	3193	4X4 MIMO	22.43	22.64
CA_12A-25A	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 25	20M	1960	8340	4X4 MIMO	23.71	23.89
	Band 25	Ant 2	20M	1880	26340	QPSK	1	0	4X4 MIMO	Band 12	10M	737.5	5095		23.50	23.60
CA_38C	Band 38	Ant 3	20M	2580	37850	QPSK	1	0	4X4 MIMO	Band 38	20M	2599.8	38048	4X4 MIMO	22.66	22.77



<3CA_DL Power>

3CA List	PCC									SCC1					SCC2				DL Antenna Configuration	Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL		With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-48A-48A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 48	20M	3609	55830	4X4 MIMO	Band 48	5M	3697.5	56715	4X4 MIMO	23.47	23.66
CA_2A-4A-13A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	Band 13	10M	751	5230	4X4 MIMO	23.45	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 13	10M	751	5230	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	23.43	23.56
	Band 13	Ant 0	10M	782	23230	QPSK	1	0	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	23.55	23.71
CA_2A-4A-29A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	Band 29	10M	722.5	9715	4X4 MIMO	23.52	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 29	10M	722.5	9715	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	23.39	23.56
CA_2A-4A-30A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	Band 30	10M	2355	9820	4X4 MIMO	23.51	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 30	10M	2355	9820	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	23.46	23.56
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	23.58	23.69
CA_2A-29A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 29	10M	722.5	9715	4X4 MIMO	Band 66	20M	2155	66886	4X4 MIMO	23.46	23.66
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	Band 29	10M	722.5	9715	4X4 MIMO	23.43	23.60
CA_2A-5A-7A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 5	10M	881.5	2525	4X4 MIMO	Band 7	20M	2535	3110	4X4 MIMO	23.48	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0	4X4 MIMO	Band 7	20M	2535	3110	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	23.55	23.70
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	Band 5	10M	881.5	2525	4X4 MIMO	22.60	22.80
CA_2A-5A-48A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 5	10M	881.5	2525	4X4 MIMO	Band 48	20M	3609	55830	4X4 MIMO	23.48	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0	4X4 MIMO	Band 48	20M	3609	55830	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	23.58	23.70
CA_2A-7C-13A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 7	20M	2655	3100	4X4 MIMO	Band 13	10M	751	5230	4X4 MIMO	23.52	23.66
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 13	10M	751	5230	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	22.63	22.80
	Band 13	Ant 0	10M	782	23230	QPSK	1	0	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	Band 7	20M	2535	3110	4X4 MIMO	23.57	23.71
CA_2A-7C-29A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 7	20M	2655	3100	4X4 MIMO	Band 29	10M	722.5	9715	4X4 MIMO	23.47	23.66
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 29	10M	722.5	9715	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	22.62	22.80
CA_2A-7C-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 7	20M	2655	3100	4X4 MIMO	Band 66	20M	2155	66886	4X4 MIMO	23.53	23.66
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 66	20M	2155	66886	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	22.64	22.80
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	Band 7	20M	2535	3110	4X4 MIMO	23.47	23.60
CA_2A-13A-48A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4X4 MIMO	Band 13	10M	751	5230	4X4 MIMO	Band 48	5M	3697.5	56715	4X4 MIMO	23.48	23.66
	Band 13	Ant 0	10M	782	23230	QPSK	1	0	4X4 MIMO	Band 48	5M	3697.5	56715	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	21.80	21.90
	Band 48	Ant 4	20M	3609	55830	QPSK	1	0	4X4 MIMO	Band 2	20M	1960	900	4X4 MIMO	Band 13	10M	751	5230	4X4 MIMO	21.80	21.90
CA_4A-4A-7A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 4	5M	2152.5	2375	4X4 MIMO	Band 7	5M	2687.5	3425	4X4 MIMO	23.39	23.56
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	Band 4	5M	2152.5	2375	4X4 MIMO	22.68	22.80
CA_4A-4A-13A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 4	5M	2152.5	2375	4X4 MIMO	Band 13	10M	751	5230	4X4 MIMO	23.37	23.56
	Band 13	Ant 0	10M	782	23230	QPSK	1	0	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	Band 4	5M	2152.5	2375	4X4 MIMO	23.52	23.71
CA_4A-4A-71A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 4	5M	2152.5	2375	4X4 MIMO	Band 71	20M	683	68786	4X4 MIMO	23.45	23.56
	Band 71	Ant 0	20M	683	133322	QPSK	1	0	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	Band 4	5M	2152.5	2375	4X4 MIMO	22.67	22.76
CA_4A-7A-7A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 7	20M	2655	3100	4X4 MIMO	Band 7	5M	2687.5	3425	4X4 MIMO	23.42	23.56
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 7	5M	2687.5	3425	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	22.62	22.80
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 7	20M	2655	3100	4X4 MIMO	Band 12	10M	737.5	5095	4X4 MIMO	23.44	23.56
CA_4A-7A-12A	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 12	10M	737.5	5095	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	22.68	22.80
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0	4X4 MIMO	Band 4	20M	2132.5	2175	4X4 MIMO	Band 7	20M	2655	3100	4X4 MIMO	23.72	23.89
CA_4A-48C	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4X4 MIMO	Band 48	20M	3609	55830	4X4 MIMO	Band 48	20M	3628.8	56028	4X4 MIMO	23.35	23.56
CA_5A-7A-7A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0	4X4 MIMO	Band 7	20M	2655	3100	4X4 MIMO	Band 7	5M	2687.5	3425	4X4 MIMO	23.55	23.70
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 7	5M	2687.5	3425	4X4 MIMO	Band 5	10M	881.5	2525	4X4 MIMO	22.69	22.80
CA_5A-48A-66A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0	4X4 MIMO	Band 48	20M	3609	55830	4X4 MIMO	Band 66	20M	2155	66886	4X4 MIMO	23.61	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4X4 MIMO	Band 5	10M	881.5	2525	4X4 MIMO	Band 48	20M	3609	55830	4X4 MIMO	23.40	23.60
CA_7A-7A-26A	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 7	5M	2687.5	3425	4X4 MIMO	Band 26	15M	876.5	8865	4X4 MIMO	22.64	22.80
	Band 26	Ant 0	15M	831.5	26865	QPSK	1	0	4X4 MIMO	Band 7	20M	2655	3100	4X4 MIMO	Band 7	5M	2687.5	3425	4X4 MIMO	23.45	23.62
CA_7A-12A-66A	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 12	10M	737.5	5095	4X4 MIMO	Band 66	20M	2155	66886	4X4 MIMO	22.64	22.80
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0	4X4 MIMO	Band 66	20M	2155	66886	4X4 MIMO	Band 7	5M	2687.5	3425	4X4 MIMO	23.79	23.89
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4X4 MIMO	Band 7	20M	2655	3100	4X4 MIMO	Band 12	10M	737.5	5095	4X4 MIMO	23.44	23.60
CA_7C-13A	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4X4 MIMO	Band 7	20M	2554.8	3298	4X4 MIMO	Band 13	10M	751	5230	4X4 MIMO	22.67	22.80
	Band 13	Ant 0	10M	782	23230	QPSK	1	0	4X4 MIMO	Band 7	20M	2655	3100	4X4 MIMO	Band 7	20M	2554.8	3298	4X4 MIMO	23.50	23.71



FCC SAR Test Report

Report No. : FA460505

CA_13A-48A-48A	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4X4 MIMO	Band 48	5M	3697.5	56715	4X4 MIMO	23.55	23.71
CA_13A-48A-66A	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4X4 MIMO	Band 66	20M	2155	66886	4X4 MIMO	23.57	23.71
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4X4 MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4X4 MIMO	23.48	23.60
CA_25A-25A-25A	Band 25	Ant 2	20M	1880	26340	QPSK	1	0	4X4 MIMO	Band 25	5M	1912.5	8665	4X4 MIMO	Band 25	20M	1860	8140	4X4 MIMO	23.48	23.60
CA_25A-25A-26A	Band 25	Ant 2	20M	1880	26340	QPSK	1	0	4X4 MIMO	Band 25	5M	1912.5	8665	4X4 MIMO	Band 26	15M	876.5	8865		23.46	23.60
	Band 26	Ant 0	15M	831.5	26865	QPSK	1	0		Band 25	20M	1880	8340	4X4 MIMO	Band 25	5M	1912.5	8665	4X4 MIMO	23.48	23.62
CA_29A-66A-66A	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4X4 MIMO	Band 66	5M	2197.5	67311	4X4 MIMO	Band 29	10M	722.5	9715		23.49	23.60
CA_41A-41C	Band 41	Ant 3	20M	2675.8	39750	QPSK	1	0	4X4 MIMO	Band 41	20M	2660.2	41292	4X4 MIMO	Band 41	20M	2680	41490	4X4 MIMO	22.60	22.81
CA_48A-48A-71A	Band 71	Ant 0	20M	683	133322	QPSK	1	0		Band 48	20M	3609	55830	4X4 MIMO	Band 48	5M	3697.5	56715	4X4 MIMO	22.65	22.76
CA_48C-71A	Band 71	Ant 0	20M	683	133322	QPSK	1	0		Band 48	20M	3609	55830	4X4 MIMO	Band 48	20M	3628.8	56028	4X4 MIMO	22.60	22.76

<4CA_DL Power>

Configure	PCC									SCC1					SCC2					SCC3					Power	
	LTE	BW	BW	UL	UL		UL#	UL		LTE	BW	DL	DL		LTE	BW	DL	DL		LTE	BW	DL	DL		With CA	Without CA
	Band	Ant	(MHz)	Freq.	Channel	Mod.	RB	RB	DL Antenna Configuration	Band	(MHz)	Freq.	Channel	DL Antenna Configuration	Band	(MHz)	Freq.	Channel	DL Antenna Configuration	Band	(MHz)	Freq.	Channel	DL Antenna Configuration	Tx. Power	Tx. Power
			(MHz)	(MHz)			Offset					(MHz)					(MHz)					(MHz)			(dBm)	(dBm)
CA_2A-2A-4A-4A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375		23.54	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.39	23.56
CA_2A-2A-4A-5A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		23.55	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		23.38	23.56
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175		23.53	23.70
CA_2A-2A-4A-12A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095		23.45	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		23.42	23.56
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175		23.71	23.89
CA_2A-2A-4A-71A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	683	68786		23.50	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 71	20M	683	68786		23.43	23.56
	Band 71	Ant 0	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175		22.56	22.76
CA_2A-2A-5A-30A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4x4MIMO	23.48	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.53	23.70
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		23.56	23.69
CA_2A-2A-5A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	23.53	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.57	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		23.49	23.60
CA_2A-2A-5B	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.53	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.56	23.70
CA_2A-2A-7A-12A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 12	10M	737.5	5095		23.49	23.66
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		22.65	22.80
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.70	23.89
CA_2A-2A-7A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.54	23.66
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.67	22.80
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.45	23.60
CA_2A-2A-12A-12A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	743.5	5155		23.50	23.66
	Band 12	Ant 0	5M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.66	23.76
CA_2A-2A-12A-30A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4x4MIMO	23.46	23.66
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.79	23.89
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		23.57	23.69
CA_2A-2A-14A-30A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4x4MIMO	23.48	23.66
	Band 14	Ant 0	10M	793	23330	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.71	23.83
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330		23.52	23.69



FCC SAR Test Report

Report No. : FA460505

CA_2A-2A-1 2A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	23.46	23.66
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.80	23.89
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		23.46	23.60
CA_2A-2A-1 3A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	23.56	23.66
	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.54	23.71
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230		23.51	23.60
CA_2A-2A-1 4A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	23.49	23.66
	Band 14	Ant 0	10M	793	23330	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.62	23.83
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	763	5330		23.49	23.60
CA_2A-2A-2 9A-30A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	23.49	23.66
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 29	10M	722.5	9715		23.50	23.69
CA_2A-2A-3 0A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.45	23.66
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.54	23.69
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.41	23.60
CA_2A-2A-6 6A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.46	23.66
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.44	23.60
CA_2A-2A-6 6A-71A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	683	68786		23.49	23.66
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.48	23.60
	Band 71	Ant 0	20M	683	133322	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.69	22.76
CA_2A-2A-1 2B	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.57	23.66
	Band 12	Ant 0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.65	23.76
CA_2A-2A-6 6B	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.56	23.66
	Band 66	Ant 2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.39	23.47
CA_2A-2A-6 6C	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.51	23.66
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.39	23.60
CA_2A-4A-4 A-5A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		23.52	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO	23.32	23.56
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375		23.60	23.70
CA_2A-4A-4 A-12A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		23.50	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	23.36	23.56
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375		23.80	23.89
CA_2A-4A-5 B	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.50	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		Band 2	20M	1960	900	4x4MIMO	23.50	23.56
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175		23.53	23.70
CA_2A-4A-7 A-7A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.56	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.33	23.56
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175		22.67	22.80
CA_2A-4A-7 C	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.47	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.41	23.56
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175		22.70	22.80
CA_2A-4A-1 2B	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.50	23.66
	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	23.41	23.56
	Band 12	Ant 0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175		23.64	23.76
CA_2C-66A- 66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.60	23.66
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	23.55	23.60
CA_2C-5A-3 0A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4x4MIMO	23.49	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	23.47	23.70



FCC SAR Test Report

Report No. : FA460505

	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 5	10M	881.5	2525		23.62	23.69
CA_2C-29A-30A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	23.42	23.66
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 29	10M	722.5	9715		23.51	23.69
CA_2C-12A-30A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4x4MIMO	23.46	23.66
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	23.80	23.89
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 12	10M	737.5	5095		23.48	23.69
CA_2A-5A-48C	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.59	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.52	23.70
CA_2A-5A-66A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.44	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.47	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.36	23.60
CA_2A-5A-66B	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.55	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.50	23.70
	Band 66	Ant 2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.23	23.47
CA_2A-5A-66C	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.60	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.53	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.52	23.60
CA_2A-5B-30A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		Band 30	10M	2355	9820	4x4MIMO	23.47	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 30	10M	2355	9820	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.62	23.70
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.57	23.69
CA_2A-5B-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	23.59	23.66
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.62	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.47	23.60
CA_2A-7A-12B	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.44	23.66
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	22.56	22.80
	Band 12	Ant 0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.61	23.76
CA_2A-7A-7A-13A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 13	10M	751	5230		23.58	23.66
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4x4MIMO	22.58	22.80
	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.63	23.71
CA_2A-7A-7A-29A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 29	10M	722.5	9715		23.56	23.66
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 29	10M	722.5	9715		Band 2	20M	1960	900	4x4MIMO	22.60	22.80
CA_2A-7A-7A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.59	23.66
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.69	22.80
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.52	23.60
CA_2A-7A-66A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.51	23.66
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.74	22.80
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.40	23.60
CA_2A-12A-66A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.53	23.66
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.67	23.89
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.38	23.60
CA_2A-12A-66C	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.58	23.66
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.78	23.89
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.55	23.60
CA_2A-12B-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		Band 66	20M	2155	66886	4x4MIMO	23.60	23.66
	Band 12	Ant 0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.56	23.76
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.35	23.60
CA_2A-13A-48C	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.51	23.66



FCC SAR Test Report

Report No. : FA460505

	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.51	23.71
CA_2A-13A-66A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.48	23.66
	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.64	23.71
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.42	23.60
CA_2A-13A-66B	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.55	23.66
	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.61	23.71
	Band 66	Ant 2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.31	23.47
CA_2A-13A-66C	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.45	23.66
	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.51	23.71
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.50	23.60
CA_2A-14A-66A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.46	23.66
	Band 14	Ant 0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.71	23.83
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		23.40	23.60
CA_2A-30A-66A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.48	23.66
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.48	23.69
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	23.54	23.60
CA_2A-48D	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.55	23.66
CA_2A-66A-66A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	23.59	23.66
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.43	23.60
CA_2A-66A-66A-71A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786		23.57	23.66
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1960	900	4x4MIMO	23.40	23.60
	Band 71	Ant 0	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.68	22.76
CA_2A-66A-66B	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	Band 66	10M	2185.1	67187	4x4MIMO	Band 66	10M	2155	67286	4x4MIMO	23.46	23.66
	Band 66	Ant 2	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	10M	2185.1	67187	4x4MIMO	Band 66	10M	2155	67286	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.43	23.60
CA_2A-66A-66C	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	23.55	23.66
	Band 66	Ant 2	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.42	23.60
CA_2A-66C-71A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	683	68786		23.55	23.66
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1960	900	4x4MIMO	23.49	23.60
	Band 71	Ant 0	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.61	22.76
CA_2A-66D	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	23.53	23.66
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.52	23.60
CA_2A-48A-48C	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	23.44	23.66
	Band 48	Ant 4	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.75	21.90
CA_2A-48A-66A-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.55	23.66
	Band 48	Ant 4	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	21.66	21.90
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.49	23.60
CA_2A-48C-66A	Band 2	Ant 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.46	23.66
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	23.51	23.60
CA_4A-4A-12A-12A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	743.5	5155		23.41	23.56
	Band 12	Ant 0	5M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375		23.56	23.76
CA_4A-4A-5B	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.47	23.56
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375		23.59	23.70
CA_4A-4A-12A-30A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4x4MIMO	23.33	23.56
	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375		23.78	23.89
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		23.60	23.69
CA_4A-4A-5A-30A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		Band 5	10M	881.5	2525		23.47	23.56
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375		23.62	23.70



FCC SAR Test Report

Report No. : FA460505

	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		23.55	23.69
CA_4A-4A-1 2B	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.38	23.56
	Band 12	Ant 0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375		23.65	23.76
CA_4A-4A-2 9A-30A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	23.49	23.56
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 29	10M	722.5	9715		23.47	23.69
CA_4A-5B-3 0A	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		Band 30	10M	2355	9820	4x4MIMO	23.45	23.56
	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 30	10M	2355	9820	4x4MIMO	Band 4	5M	2152.5	2375		23.60	23.70
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.47	23.69
CA_4A-48D	Band 4	Ant 2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	23.49	23.56
CA_5A-5A-6 6A-66A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.55	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		23.52	23.60
CA_5A-5A-6 6B	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.65	23.70
	Band 66	Ant 2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		23.31	23.47
CA_5A-5A-6 6C	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.59	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		23.40	23.60
CA_5A-66A- 66B	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2120	66536	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.58	23.70
	Band 66	Ant 2	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	Band 5	5M	891.5	2625		23.54	23.60
CA_5A-66A- 66C	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2120	66536	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	23.54	23.70
	Band 66	Ant 2	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	Band 5	5M	891.5	2625		23.48	23.60
CA_5A-66D	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2145	66786	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	23.47	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	Band 5	5M	891.5	2625		23.44	23.60
CA_5A-7A-6 6A-66A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.60	23.70
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		22.74	22.80
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	23.46	23.60
CA_5A-30A- 66A-66A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.49	23.70
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		23.63	23.69
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 30	10M	2355	9820	4x4MIMO	23.40	23.60
CA_5A-7C-6 6A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.54	23.70
	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525		22.70	22.80
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.48	23.60
CA_5A-48C- 66A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.55	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.41	23.60
CA_5A-48D	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.51	23.70
CA_5B-30A- 66A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.62	23.70
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.56	23.69
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		Band 30	10M	2355	9820	4x4MIMO	23.40	23.60
CA_5B-66A- 66A	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.64	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.39	23.60
CA_5B-66B	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.50	23.70
	Band 66	Ant 2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.31	23.47
CA_5B-66C	Band 5	Ant 0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.45	23.70
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.49	23.60
CA_7A-7A-2 9A-66A	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 29	10M	722.5	9715		22.68	22.80
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.53	23.60
CA_7A-7A-6 6A-66A	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.67	22.80
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.51	23.60
CA_7A-12B- 66A	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		Band 66	20M	2155	66886	4x4MIMO	22.57	22.80



FCC SAR Test Report

Report No. : FA460505

	Band 12	Ant 0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.61	23.76
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.53	23.60
CA_7C-29A-66A	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 29	10M	722.5	9715		22.59	22.80
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.40	23.60
CA_7C-66A-66A	Band 7	Ant 3	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.72	22.80
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.36	23.60
CA_12A-30A-66A-66A	Band 12	Ant 0	10M	707.5	23095	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.70	23.89
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095		23.50	23.69
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095		Band 30	10M	2355	9820	4x4MIMO	23.55	23.60
CA_12B-66A-66A	Band 12	Ant 0	5M	707.5	23095	QPSK	1	0		Band 12	5M	742.3	5143		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.67	23.76
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	5M	737.5	5095		Band 12	5M	742.3	5143		23.54	23.60
CA_13A-66A-66B	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 66	20M	2120	66536	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.50	23.71
	Band 66	Ant 2	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	Band 13	10M	751	5230		23.38	23.60
CA_13A-66A-66C	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 66	20M	2120	66536	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	23.63	23.71
	Band 66	Ant 2	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2150.2	66838	4x4MIMO	Band 66	20M	2170	67036	4x4MIMO	Band 13	10M	751	5230		23.49	23.60
CA_13A-48C-66A	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.51	23.71
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.46	23.60
CA_13A-48A-66B	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 66	15M	2145	66786	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	23.51	23.71
	Band 66	Ant 2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	23.29	23.47
CA_13A-48A-66C	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2145	66786	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	23.52	23.71
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	23.40	23.60
CA_13A-48A-48C	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	23.60	23.71
	Band 48	Ant 4	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	Band 48	20M	3685.8	56598	4x4MIMO	Band 13	10M	751	5230		21.69	21.90
CA_13A-48D	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.57	23.71
CA_13A-66D	Band 13	Ant 0	10M	782	23230	QPSK	1	0		Band 66	20M	2145	66786	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	23.47	23.71
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 66	20M	2184.6	67182	4x4MIMO	Band 13	10M	751	5230		23.46	23.60
CA_14A-30A-66A-66A	Band 14	Ant 0	10M	793	23330	QPSK	1	0		Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.69	23.83
	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		23.63	23.69
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		Band 30	10M	2355	9820	4x4MIMO	23.46	23.60
CA_14A-66A-66A-66A	Band 14	Ant 0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	23.64	23.83
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	Band 14	10M	763	5330		23.48	23.60
CA_25A-41D	Band 25	Ant 2	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	23.49	23.60
	Band 41	Ant 3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	22.74	22.81
CA_29A-30A-66A-66A	Band 30	Ant 3	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 29	10M	722.5	9715		23.60	23.69
	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 29	10M	722.5	9715		Band 30	10M	2355	9820	4x4MIMO	23.41	23.60
CA_41E	Band 41	Ant 3	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2652.4	41214	4x4MIMO	22.67	22.81
CA_48A-48C-66A	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3560	55340	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	23.43	23.60
CA_48A-48A-66A-66A	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	23.37	23.60
CA_48A-48A-66B	Band 66	Ant 2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	23.36	23.47
CA_48A-48A-66C	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	23.51	23.60
CA_48A-48D	Band 48	Ant 4	20M	3560	55340	QPSK	1	0	4x4MIMO	Band 48	20M	3641	56150	4x4MIMO	Band 48	20M	3660.8	56348	4x4MIMO	Band 48	20M	3680.6	56546	4x4MIMO	21.78	21.90
CA_48C-48C	Band 48	Ant 4	20M	3560	55340	QPSK	1	0	4x4MIMO	Band 48	20M	3579.8	55538	4x4MIMO	Band 48	20M	3670.2	56442	4x4MIMO	Band 48	20M	3690	56640	4x4MIMO	21.75	21.90
CA_48C-66A-66A	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.39	23.60
CA_48C-66B	Band 66	Ant 2	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.41	23.47
CA_48C-66C	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.47	23.60
CA_48D-66A	Band 66	Ant 2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.44	23.60
CA_48E	Band 48	Ant 4	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	Band 48	20M	3668.4	56424	4x4MIMO	21.80	21.90



LTE Carrier Aggregation Conducted Power (Downlink)

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

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

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Band 2/4/7/25/30/38/41/48/66 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 2/4/7/25/30/38/41/48/66

**LTE Carrier Aggregation Conducted Power (Uplink)**

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_5B	Ant0/1
CA_7C	Ant3
CA_38C	Ant3
CA_41C	Ant3
CA_48C	Ant4
CA_66B	Ant2
CA_66C	Ant2

<Intra-band>**General Note:**

- The device supports intra-band uplink carrier aggregation for LTE B5/7/38/41/48/66 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.
- 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.
- 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.
- 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.
- LTE CA_66B, test was covered by CA_66C, therefore, SAR was only assessed for CA_66C.

<Uplink CA Full Power>

CA_5B Ant0 Default&DSI3										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	2	0	23.35	25.00
20476	20575	QPSK	1	49	1	0	2	0	23.47	25.00
20600	20501	QPSK	1	0	1	49	2	0	23.31	25.00
CA_5B Ant1 Default										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	2	0	22.15	24.00
20476	20575	QPSK	1	49	1	0	2	0	22.21	24.00
20600	20501	QPSK	1	0	1	49	2	0	22.07	24.00
CA_7C Ant3 Default										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	2	0	23.21	24.00
21100	21298	QPSK	1	99	1	0	2	0	23.27	24.00
21350	21152	QPSK	1	0	1	99	2	0	23.15	24.00



FCC SAR Test Report

Report No. : FA460505

CA_38C Ant3 Default										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	2	0	22.51	24.00
37901	38099	QPSK	1	99	1	0	2	0	22.68	24.00
38150	37952	QPSK	1	0	1	99	2	0	22.49	24.00
CA_41C Ant3 Default										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	22.59	24.00
40185	40383	QPSK	1	99	1	0	2	0	22.66	24.00
40620	40818	QPSK	1	99	1	0	2	0	22.74	24.00
41055	41253	QPSK	1	99	1	0	2	0	22.61	24.00
41490	41292	QPSK	1	0	1	99	2	0	22.65	24.00
CA_41C HPUE Ant3 Default										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	25.65	27.00
40185	40383	QPSK	1	99	1	0	2	0	25.74	27.00
40620	40818	QPSK	1	99	1	0	2	0	25.85	27.00
41055	41253	QPSK	1	99	1	0	2	0	25.71	27.00
41490	41292	QPSK	1	0	1	99	2	0	25.68	27.00
CA_66C Ant2 Default										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	23.33	25.00
132322	132520	QPSK	1	99	1	0	1	0	23.54	25.00
132572	132374	QPSK	1	0	1	99	1	0	23.26	25.00
CA_66B Ant2 Default										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	23.25	25.00
132322	132415	QPSK	1	74	1	0	1	0	23.45	25.00
132597	132504	QPSK	1	0	1	24	1	0	23.21	25.00
CA_48C Ant4 Default&DS10&DS11										
Combination 20MHz+20MHz (1RB+99RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	1	0	21.66	23.00
55830	56028	QPSK	1	99	1	0	1	0	21.82	23.00
56150	56348	QPSK	1	99	1	0	1	0	21.75	23.00
56640	56442	QPSK	1	0	1	99	1	0	21.72	23.00



FCC SAR Test Report

Report No. : FA460505

<Uplink CA Power Mode for DSI 2>

CA_5B Ant0 DSI2										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	2	0	20.81	22.40
20476	20575	QPSK	1	49	1	0	2	0	20.95	22.40
20600	20501	QPSK	1	0	1	49	2	0	20.75	22.40
CA_7C Ant3 DSI2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	2	0	15.73	16.90
21100	21298	QPSK	1	99	1	0	2	0	15.84	16.90
21350	21152	QPSK	1	0	1	99	2	0	15.71	16.90
CA_38C Ant3 DSI2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	2	0	17.00	18.70
37901	38099	QPSK	1	99	1	0	2	0	17.11	18.70
38150	37952	QPSK	1	0	1	99	2	0	17.01	18.70
CA_41C Ant3 DSI2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	17.29	18.70
40185	40383	QPSK	1	99	1	0	2	0	17.32	18.70
40620	40818	QPSK	1	99	1	0	2	0	17.55	18.70
41055	41253	QPSK	1	99	1	0	2	0	17.31	18.70
41490	41292	QPSK	1	0	1	99	2	0	17.3	18.70
CA_41C HPUE Ant3 DSI2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	18.79	20.30
40185	40383	QPSK	1	99	1	0	2	0	18.71	20.30
40620	40818	QPSK	1	99	1	0	2	0	19.05	20.30
41055	41253	QPSK	1	99	1	0	2	0	18.75	20.30
41490	41292	QPSK	1	0	1	99	2	0	18.68	20.30
CA_66C Ant2 DSI2										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	17.51	18.90
132322	132520	QPSK	1	99	1	0	1	0	17.65	18.90
132572	132374	QPSK	1	0	1	99	1	0	17.49	18.90
CA_66B Ant2 DSI2										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	17.35	18.90
132322	132415	QPSK	1	74	1	0	1	0	17.49	18.90
132597	132504	QPSK	1	0	1	24	1	0	17.31	18.90
CA_48C Ant4 DSI2										
Combination 20MHz+20MHz (1RB+99RB)										



FCC SAR Test Report

Report No. : FA460505

PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	1	0	17.21	18.20
55830	56028	QPSK	1	99	1	0	1	0	17.35	18.20
56150	56348	QPSK	1	99	1	0	1	0	17.26	18.20
56640	56442	QPSK	1	0	1	99	1	0	17.29	18.20

<Uplink CA Power Mode for DSI0>

CA_7C Ant3 DSI0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	2	0	20.15	20.90
21100	21298	QPSK	1	99	1	0	2	0	20.22	20.90
21350	21152	QPSK	1	0	1	99	2	0	20.09	20.90
CA_38C Ant3 DSI0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	2	0	22.02	22.80
37901	38099	QPSK	1	99	1	0	2	0	22.14	22.80
38150	37952	QPSK	1	0	1	99	2	0	22.01	22.80
CA_41C Ant3 DSI0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	22.05	22.80
40185	40383	QPSK	1	99	1	0	2	0	22.06	22.80
40620	40818	QPSK	1	99	1	0	2	0	22.19	22.80
41055	41253	QPSK	1	99	1	0	2	0	22.07	22.80
41490	41292	QPSK	1	0	1	99	2	0	22.02	22.80
CA_41C HPUE Ant3 DSI0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	23.52	24.40
40185	40383	QPSK	1	99	1	0	2	0	23.6	24.40
40620	40818	QPSK	1	99	1	0	2	0	23.75	24.40
41055	41253	QPSK	1	99	1	0	2	0	23.57	24.40
41490	41292	QPSK	1	0	1	99	2	0	23.59	24.40
CA_66C Ant2 DSI0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	22.71	23.60
132322	132520	QPSK	1	99	1	0	1	0	22.81	23.60
132572	132374	QPSK	1	0	1	99	1	0	22.64	23.60
CA_66B Ant2 DSI0										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	22.62	23.60
132322	132415	QPSK	1	74	1	0	1	0	22.71	23.60



FCC SAR Test Report

Report No. : FA460505

132597	132504	QPSK	1	0	1	24	1	0	22.51	23.60
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<Uplink CA Power Mode for DSI 1>

CA_7C Ant3 DSI1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	2	0	18.22	19.40
21100	21298	QPSK	1	99	1	0	2	0	18.24	19.40
21350	21152	QPSK	1	0	1	99	2	0	18.09	19.40
CA_38C Ant3 DSI1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	2	0	20.16	21.30
37901	38099	QPSK	1	99	1	0	2	0	20.28	21.30
38150	37952	QPSK	1	0	1	99	2	0	20.17	21.30
CA_41C Ant3 DSI1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	20.15	21.30
40185	40383	QPSK	1	99	1	0	2	0	20.22	21.30
40620	40818	QPSK	1	99	1	0	2	0	20.39	21.30
41055	41253	QPSK	1	99	1	0	2	0	20.24	21.30
41490	41292	QPSK	1	0	1	99	2	0	20.21	21.30
CA_41C HPUE Ant3 DSI1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	21.57	22.90
40185	40383	QPSK	1	99	1	0	2	0	21.72	22.90
40620	40818	QPSK	1	99	1	0	2	0	21.66	22.90
41055	41253	QPSK	1	99	1	0	2	0	21.64	22.90
41490	41292	QPSK	1	0	1	99	2	0	21.61	22.90
CA_66C Ant2 DSI1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	21.31	22.10
132322	132520	QPSK	1	99	1	0	1	0	21.42	22.10
132572	132374	QPSK	1	0	1	99	1	0	21.25	22.10
CA_66B Ant2 DSI1										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	21.24	22.10
132322	132415	QPSK	1	74	1	0	1	0	21.34	22.10
132597	132504	QPSK	1	0	1	24	1	0	21.20	22.10



<Uplink CA Power Mode for DSI 4>

CA_5B Ant1 DSI4										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	2	0	22.15	23.60
20476	20575	QPSK	1	49	1	0	2	0	22.21	23.60
20600	20501	QPSK	1	0	1	49	2	0	22.07	23.60
CA_7C Ant3 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	2	0	16.72	17.90
21100	21298	QPSK	1	99	1	0	2	0	16.74	17.90
21350	21152	QPSK	1	0	1	99	2	0	16.59	17.90
CA_38C Ant3 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	2	0	18.66	19.80
37901	38099	QPSK	1	99	1	0	2	0	18.78	19.80
38150	37952	QPSK	1	0	1	99	2	0	18.67	19.80
CA_41C Ant3 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	18.65	19.80
40185	40383	QPSK	1	99	1	0	2	0	18.72	19.80
40620	40818	QPSK	1	99	1	0	2	0	18.89	19.80
41055	41253	QPSK	1	99	1	0	2	0	18.74	19.80
41490	41292	QPSK	1	0	1	99	2	0	18.71	19.80
CA_41C HPUE Ant3 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	20.07	21.40
40185	40383	QPSK	1	99	1	0	2	0	20.22	21.40
40620	40818	QPSK	1	99	1	0	2	0	20.16	21.40
41055	41253	QPSK	1	99	1	0	2	0	20.14	21.40
41490	41292	QPSK	1	0	1	99	2	0	20.11	21.40
CA_66C Ant2 DSI4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	19.81	20.60
132322	132520	QPSK	1	99	1	0	1	0	19.92	20.60
132572	132374	QPSK	1	0	1	99	1	0	19.75	20.60
CA_66B Ant2 DSI4										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	19.74	20.60
132322	132415	QPSK	1	74	1	0	1	0	19.84	20.60
132597	132504	QPSK	1	0	1	24	1	0	19.70	20.60
CA_48C Ant4 DSI4										



FCC SAR Test Report

Report No. : FA460505

Combination 20MHz+20MHz (1RB+99RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	1	0	21.16	22.50
55830	56028	QPSK	1	99	1	0	1	0	21.32	22.50
56150	56348	QPSK	1	99	1	0	1	0	21.25	22.50
56640	56442	QPSK	1	0	1	99	1	0	21.22	22.50

<Uplink CA Power Mode for DSI 5>

CA_5B Ant1 DSI5										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	49	1	0	2	0	22.15	23.60
20476	20575	QPSK	1	49	1	0	2	0	22.21	23.60
20600	20501	QPSK	1	0	1	49	2	0	22.07	23.60
CA_7C Ant3 DSI5										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	99	1	0	2	0	18.65	19.40
21100	21298	QPSK	1	99	1	0	2	0	18.72	19.40
21350	21152	QPSK	1	0	1	99	2	0	18.59	19.40
CA_38C Ant3 DSI5										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	99	1	0	2	0	20.02	20.80
37901	38099	QPSK	1	99	1	0	2	0	20.14	20.80
38150	37952	QPSK	1	0	1	99	2	0	20.01	20.80
CA_41C Ant3 DSI5										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	20.05	20.80
40185	40383	QPSK	1	99	1	0	2	0	20.06	20.80
40620	40818	QPSK	1	99	1	0	2	0	20.19	20.80
41055	41253	QPSK	1	99	1	0	2	0	20.07	20.80
41490	41292	QPSK	1	0	1	99	2	0	20.02	20.80
CA_41C HPUE Ant3 DSI5										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	99	1	0	2	0	21.52	22.40
40185	40383	QPSK	1	99	1	0	2	0	21.6	22.40
40620	40818	QPSK	1	99	1	0	2	0	21.75	22.40
41055	41253	QPSK	1	99	1	0	2	0	21.57	22.40
41490	41292	QPSK	1	0	1	99	2	0	21.59	22.40
CA_66C Ant2 DSI5										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	99	1	0	1	0	21.21	22.10
132322	132520	QPSK	1	99	1	0	1	0	21.31	22.10
132572	132374	QPSK	1	0	1	99	1	0	21.14	22.10
CA_66B Ant2 DSI5										


FCC SAR Test Report
Report No. : FA460505

Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	74	1	0	1	0	21.12	22.10
132322	132415	QPSK	1	74	1	0	1	0	21.21	22.10
132597	132504	QPSK	1	0	1	24	1	0	21.01	22.10
CA_48C Ant4 DSI5										
Combination 20MHz+20MHz (1RB+99RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	99	1	0	1	0	21.16	22.50
55830	56028	QPSK	1	99	1	0	1	0	21.32	22.50
56150	56348	QPSK	1	99	1	0	1	0	21.25	22.50
56640	56442	QPSK	1	0	1	99	1	0	21.22	22.50


FCC SAR Test Report
Report No. : FA460505
<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA	2CC Uplink Carrier Aggregation	
Inter-band	LTE TX1	LTE TX 2
CA_2A-4A	Ant2	Ant5
CA_2A-5A	Ant2	Ant0
CA_2A-7A	Ant2	Ant3
CA_2A-12A	Ant2	Ant0
CA_2A-13A	Ant2	Ant0
CA_2A-66A	Ant2	Ant5
CA_4A-5A	Ant5	Ant0
CA_4A-7A	Ant2	Ant3
CA_4A-12A	Ant2	Ant0
CA_4A-13A	Ant2	Ant0
CA_5A-7A	Ant0	Ant3
CA_5A-66A	Ant0	Ant5
CA_12A-66A	Ant0	Ant2
CA_13A-66A	Ant0	Ant2

General Note:

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



13.2 EN-DC Combination Configuration

<EN-DC combination>

ENDC	Main Antenna Tx	
	LTE TX	NR TX
DC_13A_n2A	Ant0	Ant2
DC_13A_n66A	Ant0	Ant2
DC_13A_n77A	Ant0	Ant4
DC_66A_n5A	Ant5	Ant0
DC_2A_n41A	Ant2	Ant3
DC_2A_n71A	Ant2	Ant0
DC_12A_n78A	Ant0	Ant4
DC_66A_n41A	Ant2	Ant3
DC_66A_n71A	Ant2	Ant0
DC_14A_n2A	Ant0	Ant2
DC_14A_n66A	Ant0	Ant2
DC_2A_n66A	Ant5	Ant2
DC_2A_n77A	Ant5	Ant4
DC_5A_n2A	Ant0	Ant2
DC_5A_n77A	Ant0	Ant4
DC_12A_n66A	Ant0	Ant2
DC_25A_n41A	Ant2	Ant3
DC_48A_n5A	Ant4	Ant0
DC_48A_n66A	Ant4	Ant5
DC_66A_n2A	Ant5	Ant2
DC_66A_n77A	Ant5	Ant4
DC_12A_n2A	Ant0	Ant2
DC_71A_n2A	Ant0	Ant2
DC_2A_n5A	Ant2	Ant0
DC_2A_n7A	Ant2	Ant3
DC_5A_n7A	Ant0	Ant3
DC_12A_n7A	Ant0	Ant3
DC_13A_n7A	Ant0	Ant3
DC_66A_n7A	Ant2	Ant3
DC_2A_n12A	Ant2	Ant0
DC_66A_n12A	Ant2	Ant0
DC_12A_n25A	Ant0	Ant2
DC_48A_n25A	Ant4	Ant5
DC_66A_n25A	Ant5	Ant2
DC_2A_n38A	Ant2	Ant3
DC_4A_n38A	Ant2	Ant3
DC_5A_n38A	Ant0	Ant3
DC_12A_n38A	Ant0	Ant3
DC_66A_n38A	Ant2	Ant3
DC_71A_n38A	Ant0	Ant3
DC_4A_n41A	Ant2	Ant3
DC_12A_n41A	Ant0	Ant3
DC_26A_n41A	Ant0	Ant3
DC_2A_n48A	Ant2	Ant4
DC_5A_n48A	Ant0	Ant4
DC_13A_n48A	Ant0	Ant4
DC_66A_n48A	Ant2	Ant4
DC_5A_n66A	Ant0	Ant5
DC_7A_n66A	Ant3	Ant2

**FCC SAR Test Report****Report No. : FA460505**

DC_71A_n66A	Ant0	Ant2
DC_7A_n71A	Ant3	Ant0
DC_7A_n77A	Ant3	Ant4
DC_12A_n77A	Ant0	Ant4
DC_14A_n77A	Ant0	Ant4
DC_2A_n78A	Ant5	Ant4
DC_4A_n78A	Ant5	Ant4
DC_5A_n78A	Ant0	Ant4
DC_7A_n78A	Ant3	Ant4
DC_13A_n78A	Ant0	Ant4
DC_38A_n78A	Ant3	Ant4
DC_66A_n78A	Ant5	Ant4
DC_71A_n78A	Ant0	Ant4

NR UL MIMO Bands Configuration:

NR UL MIMO	TX Ant	TX Ant
n77	Ant4	Ant6
n78	Ant4	Ant6



14. Antenna Location

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



15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
 - g. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
 - h. For RFID: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor* Transmission duty cycle factor.
 - i. The transmission duty cycle for RFID is 30% declared by Manufacturer.
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 receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
5. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head body-worn, hotspot and extremity exposure condition.
6. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2 W/kg of WCDMA Band II/IV, LTE Band 2/4/7/25/30/66/38/41, 5G NR n2/n7/n25/n30/n66/n38/n41/n48/n78/n77, WLAN 2.4/5.2/5.8GHz, therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.8GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
7. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
8. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is



FCC SAR Test Report

Report No. : FA460505

not required for all required test channels (PCC based).

9. LTE B7/30 and 5G NR n7/30/38/41 at ant3 support different PAs for some antennas, and LTE/NR bands support Other PA only under ENDC. Some LTE/NR bands support different PAs for some antennas, whether it is the maximum power of Main PA is higher than and very close to the other PA, for RF exposure, after verification all PAs in a same position, so the worst-case PA was chosen to perform full SAR testing to ensure the RF exposure is compliance and other PAs verified the worst case.
10. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
11. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.
12. For WLAN SISO & MIMO(CDD) & TX Beamforming mode of 802.11ax, and WLAN SISO & TX Beamforming mode is not greater than WLAN MIMO(CDD) mode, so WLAN MIMO(CDD) mode SAR covers WLAN SISO & Tx Beamforming mode SAR.
13. When the RFID is active will continue scan and only evaluation on hotspot, body-worn and product specific exposure condition for Sim-Tx analysis, when the device operate on head RFID was not perform due to the P-light sensor if detect used on head that RFID is turn off.

WCDMA Note:

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

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B2 / B4 / B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

**5G NR Note:**

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - f. For 5G FR1 n5/n7/n26/n66/n38/n41/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing. However, in order to do SISO simultaneous transmission, additional tested the WLAN 2.4GHz SISO antenna 9.
7. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.

DSI status description:

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

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

Exposure Condition	DSI	Trigger Conditions
Head	DSI2	Receiver on
Body Worn/Extremity	DSI0	RFID Off + Receiver Off + Hotspot Off
Hotspot	DSI1	RFID Off + Receiver Off + Hotspot On
Hotspot	DSI4	RFID On + Receiver Off + Hotspot On
Body Worn/Extremity	DSI5	RFID On + Receiver Off + Hotspot Off



15.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
01	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI2	133297	680.5	21.76	22.90	1.300	-	-	-0.02	0.813	1.057
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI2	133297	680.5	21.68	22.90	1.324	-	-	0.08	0.648	0.858
	LTE Band 71	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 0	DSI2	133297	680.5	21.62	22.90	1.343	-	-	0.01	0.633	0.850
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI2	133297	680.5	21.76	22.90	1.300	-	-	0.03	0.683	0.888
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI2	133297	680.5	21.68	22.90	1.324	-	-	-0.08	0.557	0.738
	LTE Band 71	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 0	DSI2	133297	680.5	21.62	22.90	1.343	-	-	-0.08	0.547	0.734
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI2	133297	680.5	21.76	22.90	1.300	-	-	0.1	0.592	0.770
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI2	133297	680.5	21.68	22.90	1.324	-	-	-0.18	0.496	0.657
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI2	133297	680.5	21.76	22.90	1.300	-	-	0.12	0.493	0.641
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI2	133297	680.5	21.68	22.90	1.324	-	-	0.08	0.407	0.539
02	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI2	23095	707.5	21.77	22.70	1.239	-	-	-0.09	0.865	1.072
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI2	23095	707.5	21.72	22.70	1.253	-	-	-0.03	0.700	0.877
	LTE Band 12	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI2	23095	707.5	21.74	22.70	1.247	-	-	0.14	0.688	0.858
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI2	23095	707.5	21.77	22.70	1.239	-	-	0.11	0.730	0.904
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI2	23095	707.5	21.72	22.70	1.253	-	-	-0.05	0.600	0.752
	LTE Band 12	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI2	23095	707.5	21.74	22.70	1.247	-	-	0.18	0.600	0.748
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI2	23095	707.5	21.77	22.70	1.239	-	-	0.14	0.659	0.816
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI2	23095	707.5	21.72	22.70	1.253	-	-	-0.17	0.539	0.675
	LTE Band 12	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI2	23095	707.5	21.74	22.70	1.247	-	-	0.17	0.537	0.670
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI2	23095	707.5	21.77	22.70	1.239	-	-	-0.05	0.587	0.727
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI2	23095	707.5	21.72	22.70	1.253	-	-	0.01	0.470	0.589
03	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI2	23230	782	21.20	22.40	1.318	-	-	-0.04	0.824	1.086
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI2	23230	782	21.09	22.40	1.352	-	-	-0.17	0.663	0.896
	LTE Band 13	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI2	23230	782	21.05	22.40	1.365	-	-	0.04	0.669	0.913
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI2	23230	782	21.20	22.40	1.318	-	-	-0.01	0.680	0.896
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI2	23230	782	21.09	22.40	1.352	-	-	-0.08	0.551	0.745
	LTE Band 13	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI2	23230	782	21.05	22.40	1.365	-	-	0.05	0.556	0.759
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI2	23230	782	21.20	22.40	1.318	-	-	0.06	0.631	0.832
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI2	23230	782	21.09	22.40	1.352	-	-	-0.09	0.514	0.695
	LTE Band 13	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI2	23230	782	21.05	22.40	1.365	-	-	-0.08	0.534	0.729
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI2	23230	782	21.20	22.40	1.318	-	-	0.13	0.535	0.705
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI2	23230	782	21.09	22.40	1.352	-	-	0.12	0.441	0.596
04	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI2	23330	793	21.72	22.40	1.169	-	-	-0.03	0.903	1.056
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI2	23330	793	21.66	22.40	1.186	-	-	0.18	0.692	0.821
	LTE Band 14	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI2	23330	793	21.62	22.40	1.197	-	-	0.16	0.674	0.807
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI2	23330	793	21.72	22.40	1.169	-	-	-0.1	0.792	0.926
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI2	23330	793	21.66	22.40	1.186	-	-	0.07	0.633	0.751
	LTE Band 14	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI2	23330	793	21.62	22.40	1.197	-	-	0.18	0.622	0.744
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI2	23330	793	21.72	22.40	1.169	-	-	-0.1	0.739	0.864
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI2	23330	793	21.66	22.40	1.186	-	-	0.01	0.572	0.678
	LTE Band 14	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI2	23330	793	21.62	22.40	1.197	-	-	-0.15	0.573	0.686
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI2	23330	793	21.72	22.40	1.169	-	-	0.19	0.639	0.747
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI2	23330	793	21.66	22.40	1.186	-	-	0.07	0.515	0.611
05	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	136100	680.5	21.26	22.40	1.300	-	-	0.03	0.839	1.091
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	136100	680.5	21.17	22.40	1.327	-	-	0.03	0.790	1.049
	FR1 n71	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	136100	680.5	21.06	22.40	1.361	-	-	-0.15	0.634	0.863
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	136100	680.5	21.26	22.40	1.300	-	-	-0.15	0.672	0.874
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	136100	680.5	21.17	22.40	1.327	-	-	0.11	0.677	0.899
	FR1 n71	20M	QPSK	100	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	136100	680.5	21.06	22.40	1.361	-	-	-0.08	0.545	0.742



FCC SAR Test Report

Report No. : FA460505

	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	136100	680.5	21.26	22.40	1.300	-	-	-0.17	0.591	0.768
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	136100	680.5	21.17	22.40	1.327	-	-	-0.08	0.624	0.828
	FR1 n71	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	136100	680.5	21.06	22.40	1.361	-	-	-0.04	0.507	0.690
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI2	136100	680.5	21.26	22.40	1.300	-	-	-0.08	0.490	0.637
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI2	136100	680.5	21.17	22.40	1.327	-	-	0.17	0.520	0.690
06	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	141500	707.5	21.47	22.40	1.239	-	-	-0.01	0.851	1.054
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	141500	707.5	21.44	22.40	1.247	-	-	-0.04	0.801	0.999
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	141500	707.5	21.34	22.40	1.276	-	-	-0.08	0.633	0.808
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	141500	707.5	21.47	22.40	1.239	-	-	-0.13	0.711	0.881
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	141500	707.5	21.44	22.40	1.247	-	-	-0.13	0.560	0.699
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	141500	707.5	21.34	22.40	1.276	-	-	0.06	0.529	0.675
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	141500	707.5	21.47	22.40	1.239	-	-	-0.03	0.633	0.784
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	141500	707.5	21.44	22.40	1.247	-	-	-0.03	0.649	0.810
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	141500	707.5	21.34	22.40	1.276	-	-	0.08	0.525	0.670
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI2	141500	707.5	21.47	22.40	1.239	-	-	-0.07	0.521	0.645
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI2	141500	707.5	21.44	22.40	1.247	-	-	0.05	0.557	0.695
07	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	156400	782	21.47	22.40	1.239	-	-	0.03	0.865	1.072
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	156400	782	21.45	22.40	1.245	-	-	-0.12	0.849	1.057
	FR1 n13	10M	QPSK	50	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	156400	782	21.35	22.40	1.274	-	-	0.03	0.675	0.860
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	156400	782	21.47	22.40	1.239	-	-	-0.16	0.665	0.824
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	156400	782	21.45	22.40	1.245	-	-	-0.02	0.723	0.900
	FR1 n13	10M	QPSK	50	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	156400	782	21.35	22.40	1.274	-	-	0.15	0.570	0.726
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	156400	782	21.47	22.40	1.239	-	-	-0.09	0.649	0.804
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	156400	782	21.45	22.40	1.245	-	-	0.11	0.680	0.846
	FR1 n13	10M	QPSK	50	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	156400	782	21.35	22.40	1.274	-	-	-0.05	0.549	0.699
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI2	156400	782	21.47	22.40	1.239	-	-	-0.08	0.533	0.660
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI2	156400	782	21.45	22.40	1.245	-	-	0.16	0.585	0.728
08	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	158600	793	21.49	22.40	1.233	-	-	-0.08	0.838	1.033
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	158600	793	21.44	22.40	1.247	-	-	0.05	0.801	0.999
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	158600	793	21.34	22.40	1.276	-	-	-0.03	0.646	0.825
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	158600	793	21.49	22.40	1.233	-	-	-0.15	0.753	0.929
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	158600	793	21.44	22.40	1.247	-	-	0.02	0.742	0.926
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	158600	793	21.34	22.40	1.276	-	-	0.07	0.587	0.749
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	158600	793	21.49	22.40	1.233	-	-	0.16	0.715	0.882
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	158600	793	21.44	22.40	1.247	-	-	0.13	0.694	0.866
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	158600	793	21.34	22.40	1.276	-	-	-0.18	0.530	0.677
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI2	158600	793	21.49	22.40	1.233	-	-	0.02	0.630	0.777
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI2	158600	793	21.44	22.40	1.247	-	-	0.16	0.630	0.786
835MHz																				
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI2	4182	836.4	21.49	22.70	1.321	-	-	-0.04	0.722	0.954
09	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI2	4132	826.4	21.40	22.70	1.349	-	-	-0.02	0.796	1.074
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI2	4233	846.6	21.42	22.70	1.343	-	-	-0.05	0.709	0.952
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI2	4182	836.4	21.49	22.70	1.321	-	-	0	0.676	0.893
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI2	4132	826.4	21.40	22.70	1.349	-	-	-0.13	0.695	0.938
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI2	4233	846.6	21.42	22.70	1.343	-	-	-0.01	0.667	0.896
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI2	4182	836.4	21.49	22.70	1.321	-	-	-0.09	0.626	0.827
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI2	4132	826.4	21.40	22.70	1.349	-	-	0.05	0.649	0.875
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI2	4233	846.6	21.42	22.70	1.343	-	-	0.02	0.621	0.834
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI2	4182	836.4	21.49	22.70	1.321	-	-	-0.13	0.594	0.785
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI2	4132	826.4	21.40	22.70	1.349	-	-	0.17	0.580	0.782
10	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI2	26865	831.5	21.09	22.40	1.352	-	-	-0.07	0.792	1.071
	LTE Band 5B	10M	QPSK	1	49	-	Right Cheek	0mm	Ant 0	DSI2	20476+ 20575	826.6+ 836.5	20.95	22.40	1.396	-	-	0.03	0.712	0.994
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI2	26865	831.5	21.08	22.40	1.355	-	-	0	0.634	0.859
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 0	DSI2	26865	831.5	21.07	22.40	1.358	-	-	-0.04	0.613	0.833
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI2	26865	831.5	21.09	22.40	1.352	-	-	-0.15	0.736	0.995
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI2	26865	831.5	21.08	22.40	1.355	-	-	0.11	0.608	0.824



FCC SAR Test Report

Report No. : FA460505

	LTE Band 26	15M	QPSK	75	0	-	Right Tilted	0mm	Ant 0	DSI2	26865	831.5	21.07	22.40	1.358	-	-	-0.02	0.588	0.799
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI2	26865	831.5	21.09	22.40	1.352	-	-	0.1	0.639	0.864
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	DSI2	26865	831.5	21.08	22.40	1.355	-	-	0.04	0.521	0.706
	LTE Band 26	15M	QPSK	75	0	-	Left Cheek	0mm	Ant 0	DSI2	26865	831.5	21.07	22.40	1.358	-	-	0.13	0.516	0.701
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI2	26865	831.5	21.09	22.40	1.352	-	-	-0.18	0.583	0.788
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	DSI2	26865	831.5	21.08	22.40	1.355	-	-	-0.11	0.482	0.653
11	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	166300	831.5	20.86	22.00	1.300	-	-	-0.18	0.833	1.083
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	166300	831.5	20.81	22.00	1.315	-	-	0.07	0.748	0.984
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	166300	831.5	20.79	22.00	1.321	-	-	0	0.589	0.778
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	166300	831.5	20.86	22.00	1.300	-	-	0.01	0.748	0.973
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	166300	831.5	20.81	22.00	1.315	-	-	-0.01	0.723	0.951
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI2	166300	831.5	20.79	22.00	1.321	-	-	-0.06	0.559	0.739
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	166300	831.5	20.86	22.00	1.300	-	-	-0.04	0.658	0.856
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	166300	831.5	20.81	22.00	1.315	-	-	-0.09	0.619	0.814
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI2	166300	831.5	20.79	22.00	1.321	-	-	-0.17	0.499	0.659
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI2	166300	831.5	20.86	22.00	1.300	-	-	-0.1	0.604	0.785
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI2	166300	831.5	20.81	22.00	1.315	-	-	0.18	0.594	0.781
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI2	1413	1732.6	18.31	19.40	1.285	-	-	-0.15	0.564	0.725
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI2	1413	1732.6	18.31	19.40	1.285	-	-	-0.19	0.194	0.249
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI2	1413	1732.6	18.31	19.40	1.285	-	-	0.02	0.814	1.046
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI2	1312	1712.4	18.25	19.40	1.303	-	-	0.12	0.754	0.983
12	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI2	1513	1752.6	18.26	19.40	1.300	-	-	0.02	0.840	1.092
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI2	1413	1732.6	18.31	19.40	1.285	-	-	-0.16	0.152	0.195
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI2	132322	1745	17.83	18.90	1.279	-	-	-0.12	0.535	0.684
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI2	132322	1745	17.80	18.90	1.288	-	-	-0.05	0.435	0.560
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI2	132322	1745	17.83	18.90	1.279	-	-	0.01	0.206	0.264
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI2	132322	1745	17.80	18.90	1.288	-	-	-0.04	0.170	0.219
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI2	132322	1745	17.83	18.90	1.279	-	-	-0.06	0.786	1.006
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI2	132072	1720	17.68	18.90	1.324	-	-	-0.15	0.727	0.963
13	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI2	132572	1770	17.76	18.90	1.300	-	-	0.05	0.830	1.079
	LTE Band 66C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI2	132572+ 132374	1770+ 1750.2	17.65	18.90	1.334	-	-	0.06	0.728	0.971
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI2	132322	1745	17.80	18.90	1.288	-	-	0.03	0.637	0.821
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI2	132072	1720	17.72	18.90	1.312	-	-	-0.13	0.606	0.795
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI2	132572	1770	17.65	18.90	1.334	-	-	0.16	0.675	0.900
	LTE Band 66	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 2	DSI2	132322	1745	17.70	18.90	1.318	-	-	-0.15	0.656	0.865
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI2	132322	1745	17.83	18.90	1.279	-	-	-0.02	0.166	0.212
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI2	132322	1745	17.80	18.90	1.288	-	-	0.1	0.137	0.176
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI2	132322	1745	23.45	25.00	1.429	-	-	0.07	0.160	0.229
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI2	132322	1745	22.36	24.00	1.459	-	-	-0.09	0.142	0.207
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI2	132322	1745	23.45	25.00	1.429	-	-	-0.16	0.078	0.111
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI2	132322	1745	22.36	24.00	1.459	-	-	-0.18	0.072	0.105
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI2	132322	1745	23.45	25.00	1.429	-	-	-0.07	0.197	0.281
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI2	132322	1745	22.36	24.00	1.459	-	-	-0.1	0.154	0.225
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI2	132322	1745	23.45	25.00	1.429	-	-	-0.17	0.073	0.104
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI2	132322	1745	22.36	24.00	1.459	-	-	-0.01	0.066	0.096
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI2	349000	1745	18.79	19.70	1.233	-	-	-0.11	0.567	0.699
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI2	349000	1745	18.74	19.70	1.247	-	-	0.14	0.618	0.771
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI2	349000	1745	18.79	19.70	1.233	-	-	0.1	0.206	0.254
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI2	349000	1745	18.74	19.70	1.247	-	-	0.16	0.233	0.291
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI2	349000	1745	18.79	19.70	1.233	-	-	0.02	0.840	1.036
14	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI2	349000	1745	18.74	19.70	1.247	-	-	-0.04	0.859	1.072
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI2	349000	1745	18.73	19.70	1.250	-	-	-0.16	0.649	0.811
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI2	349000	1745	18.79	19.70	1.233	-	-	0.05	0.159	0.196
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI2	349000	1745	18.74	19.70	1.247	-	-	-0.03	0.170	0.212
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI2	349000	1745	24.36	25.00	1.159	-	-	0.17	0.175	0.203



FCC SAR Test Report

Report No. : FA460505

	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI2	349000	1745	24.26	25.00	1.186	-	-	-0.15	0.183	0.217
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI2	349000	1745	24.36	25.00	1.159	-	-	0.16	0.084	0.097
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI2	349000	1745	24.26	25.00	1.186	-	-	0.05	0.088	0.104
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI2	349000	1745	24.36	25.00	1.159	-	-	-0.06	0.175	0.203
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI2	349000	1745	24.26	25.00	1.186	-	-	-0.01	0.195	0.231
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI2	349000	1745	24.36	25.00	1.159	-	-	-0.13	0.072	0.083
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI2	349000	1745	24.26	25.00	1.186	-	-	-0.01	0.089	0.106
1900MHz																				
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI2	9400	1880	18.45	19.60	1.303	-	-	-0.11	0.639	0.833
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI2	9262	1852.4	18.39	19.60	1.321	-	-	0.19	0.645	0.852
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI2	9538	1907.6	18.40	19.60	1.318	-	-	-0.14	0.585	0.771
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI2	9400	1880	18.45	19.60	1.303	-	-	-0.18	0.190	0.248
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI2	9400	1880	18.45	19.60	1.303	-	-	0.16	0.764	0.996
15	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI2	9262	1852.4	18.39	19.60	1.321	-	-	0	0.824	1.089
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI2	9538	1907.6	18.40	19.60	1.318	-	-	0.01	0.676	0.891
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI2	9400	1880	18.45	19.60	1.303	-	-	-0.04	0.133	0.173
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI2	18900	1880	23.62	24.40	1.197	-	-	0.15	0.150	0.180
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI2	18900	1880	22.51	24.00	1.409	-	-	-0.05	0.131	0.185
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI2	18900	1880	23.62	24.40	1.197	-	-	-0.08	0.067	0.080
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI2	18900	1880	22.51	24.00	1.409	-	-	-0.08	0.071	0.100
16	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI2	18900	1880	23.62	24.40	1.197	-	-	-0.13	0.177	0.212
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI2	18900	1880	22.51	24.00	1.409	-	-	0.03	0.143	0.202
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI2	18900	1880	23.62	24.40	1.197	-	-	-0.12	0.065	0.078
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI2	18900	1880	22.51	24.00	1.409	-	-	0.07	0.062	0.087
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI2	26340	1880	18.49	19.60	1.291	-	-	0.09	0.598	0.772
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI2	26340	1880	18.37	19.60	1.327	-	-	-0.13	0.475	0.631
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI2	26340	1880	18.49	19.60	1.291	-	-	-0.16	0.172	0.222
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI2	26340	1880	18.37	19.60	1.327	-	-	-0.05	0.142	0.188
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI2	26340	1880	18.49	19.60	1.291	-	-	-0.14	0.745	0.962
17	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI2	26140	1860	18.31	19.60	1.346	-	-	0.03	0.796	1.071
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI2	26590	1905	18.37	19.60	1.327	-	-	-0.15	0.676	0.897
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI2	26340	1880	18.37	19.60	1.327	-	-	-0.12	0.607	0.806
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI2	26140	1860	18.24	19.60	1.368	-	-	-0.17	0.649	0.888
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI2	26590	1905	18.26	19.60	1.361	-	-	0.08	0.556	0.757
	LTE Band 25	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 2	DSI2	26340	1880	18.20	19.60	1.380	-	-	0.01	0.616	0.850
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI2	26340	1880	18.49	19.60	1.291	-	-	0.02	0.120	0.155
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI2	26340	1880	18.37	19.60	1.327	-	-	-0.11	0.098	0.130
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI2	376500	1882.5	18.79	19.60	1.205	-	-	0.09	0.656	0.791
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI2	376500	1882.5	18.73	19.60	1.222	-	-	0.1	0.609	0.744
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI2	376500	1882.5	18.79	19.60	1.205	-	-	0.15	0.217	0.261
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI2	376500	1882.5	18.73	19.60	1.222	-	-	0.09	0.201	0.246
18	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI2	376500	1882.5	18.79	19.60	1.205	-	-	-0.03	0.868	1.046
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI2	376500	1882.5	18.73	19.60	1.222	-	-	0.05	0.739	0.903
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI2	376500	1882.5	18.58	19.60	1.265	-	-	0.08	0.603	0.763
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI2	376500	1882.5	18.79	19.60	1.205	-	-	-0.18	0.157	0.189
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI2	376500	1882.5	18.73	19.60	1.222	-	-	-0.03	0.138	0.169
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI2	376500	1882.5	23.38	24.40	1.265	-	-	-0.09	0.152	0.192
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI2	376500	1882.5	23.28	24.40	1.294	-	-	0.18	0.132	0.171
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI2	376500	1882.5	23.38	24.40	1.265	-	-	0.11	0.072	0.091
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI2	376500	1882.5	23.28	24.40	1.294	-	-	0.07	0.077	0.100
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI2	376500	1882.5	23.38	24.40	1.265	-	-	-0.03	0.157	0.199
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI2	376500	1882.5	23.28	24.40	1.294	-	-	-0.03	0.153	0.198
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI2	376500	1882.5	23.38	24.40	1.265	-	-	0.09	0.069	0.087
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI2	376500	1882.5	23.28	24.40	1.294	-	-	-0.08	0.067	0.087
2300MHz																				
19	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	27710	2310	15.48	16.20	1.180	-	-	-0.01	0.895	1.056



FCC SAR Test Report

Report No. : FA460505

	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 3	DSI2	27710	2310	15.35	16.20	1.216	-	-	-0.05	0.714	0.868
	LTE Band 30	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI2	27710	2310	15.31	16.20	1.227	-	-	-0.03	0.701	0.860
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI2	27710	2310	15.48	16.20	1.180	-	-	0.17	0.376	0.444
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 3	DSI2	27710	2310	15.35	16.20	1.216	-	-	-0.14	0.298	0.362
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI2	27710	2310	15.48	16.20	1.180	-	-	-0.06	0.243	0.287
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 3	DSI2	27710	2310	15.35	16.20	1.216	-	-	-0.15	0.190	0.231
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI2	27710	2310	15.48	16.20	1.180	-	-	-0.16	0.168	0.198
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 3	DSI2	27710	2310	15.35	16.20	1.216	-	-	-0.03	0.135	0.164
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	27710	2310	15.48	16.20	1.180	-	-	0.09	0.788	0.930
20	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI2	462000	2310	15.22	16.20	1.253	-	-	0.03	0.859	1.076
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI2	462000	2310	15.16	16.20	1.271	-	-	0.02	0.770	0.978
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI2	462000	2310	15.06	16.20	1.300	-	-	0	0.661	0.859
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	DSI2	462000	2310	15.22	16.20	1.253	-	-	0.18	0.394	0.494
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	DSI2	462000	2310	15.16	16.20	1.271	-	-	-0.11	0.363	0.461
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	DSI2	462000	2310	15.22	16.20	1.253	-	-	-0.04	0.187	0.234
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	DSI2	462000	2310	15.16	16.20	1.271	-	-	-0.08	0.177	0.225
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	DSI2	462000	2310	15.22	16.20	1.253	-	-	-0.14	0.118	0.148
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	DSI2	462000	2310	15.16	16.20	1.271	-	-	0.01	0.107	0.136
	FR1 n30 Other PA	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI2	462000	2310	15.22	16.20	1.253	-	-	0.09	0.815	1.021
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	21100	2535	15.91	16.90	1.256	-	-	0.02	0.813	1.021
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	20850	2510	15.75	16.90	1.303	-	-	0.16	0.738	0.962
21	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	21350	2560	15.81	16.90	1.285	-	-	0.01	0.838	1.077
	LTE Band 7C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	21350+21152	2560+2540.2	15.71	16.90	1.315	-	-	0.09	0.744	0.979
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI2	21100	2535	15.85	16.90	1.274	-	-	0.06	0.671	0.855
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI2	20850	2510	15.73	16.90	1.309	-	-	-0.02	0.625	0.818
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI2	21350	2560	15.64	16.90	1.337	-	-	0.07	0.692	0.925
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI2	21100	2535	15.75	16.90	1.303	-	-	-0.17	0.671	0.874
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI2	21100	2535	15.91	16.90	1.256	-	-	0.1	0.438	0.550
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI2	21100	2535	15.85	16.90	1.274	-	-	-0.13	0.350	0.446
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI2	21100	2535	15.91	16.90	1.256	-	-	-0.17	0.271	0.340
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI2	21100	2535	15.85	16.90	1.274	-	-	0.11	0.221	0.281
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI2	21100	2535	15.91	16.90	1.256	-	-	0.07	0.271	0.340
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI2	21100	2535	15.85	16.90	1.274	-	-	-0.03	0.213	0.271
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	21350	2560	15.81	16.90	1.285	-	-	0.09	0.786	1.010
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	40620	2593	17.61	18.70	1.285	62.9	1.006	0.09	0.789	1.020
	LTE Band 41C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 3	DSI2	40620+40818	2593+2612.8	17.55	18.70	1.303	62.9	1.006	0.09	0.755	0.990
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	39750	2506	17.41	18.70	1.346	62.9	1.006	-0.04	0.702	0.950
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	40185	2549.5	17.45	18.70	1.334	62.9	1.006	-0.18	0.751	1.007
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	41055	2636.5	17.52	18.70	1.312	62.9	1.006	-0.13	0.765	1.010
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	41490	2680	17.40	18.70	1.349	62.9	1.006	-0.13	0.721	0.978
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI2	40620	2593	17.46	18.70	1.330	62.9	1.006	0	0.642	0.859
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI2	39750	2506	17.31	18.70	1.377	62.9	1.006	-0.15	0.587	0.813
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI2	40185	2549.5	17.43	18.70	1.340	62.9	1.006	-0.09	0.632	0.852
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI2	41055	2636.5	17.37	18.70	1.358	62.9	1.006	0.05	0.628	0.858
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI2	41490	2680	17.28	18.70	1.387	62.9	1.006	0.13	0.625	0.872
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI2	40620	2593	17.51	18.70	1.315	62.9	1.006	0	0.632	0.836
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI2	40620	2593	17.61	18.70	1.285	62.9	1.006	-0.12	0.293	0.379
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI2	40620	2593	17.46	18.70	1.330	62.9	1.006	-0.02	0.235	0.315
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI2	40620	2593	17.61	18.70	1.285	62.9	1.006	0.03	0.226	0.292
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI2	40620	2593	17.46	18.70	1.330	62.9	1.006	-0.09	0.180	0.241
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI2	40620	2593	17.61	18.70	1.285	62.9	1.006	-0.06	0.166	0.215
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI2	40620	2593	17.46	18.70	1.330	62.9	1.006	-0.19	0.131	0.175
22	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	40620	2593	19.25	20.30	1.274	42.9	1.009	0.09	0.835	1.073
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 3	DSI2	40620+40818	2593+2612.8	19.05	20.30	1.334	42.9	1.009	0.09	0.742	0.998



FCC SAR Test Report

Report No. : FA460505

	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI2	507000	2535	16.62	17.40	1.197	-	-	0.08	0.858	1.027
23	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI2	507000	2535	16.58	17.40	1.208	-	-	0.01	0.899	1.086
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI2	507000	2535	16.50	17.40	1.230	-	-	0.01	0.695	0.855
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	DSI2	507000	2535	16.62	17.40	1.197	-	-	0.03	0.538	0.644
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	DSI2	507000	2535	16.58	17.40	1.208	-	-	-0.08	0.470	0.568
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	DSI2	507000	2535	16.62	17.40	1.197	-	-	0.1	0.330	0.395
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	DSI2	507000	2535	16.58	17.40	1.208	-	-	-0.18	0.303	0.366
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	DSI2	507000	2535	16.62	17.40	1.197	-	-	0.12	0.330	0.395
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	DSI2	507000	2535	16.58	17.40	1.208	-	-	0.08	0.286	0.345
	FR1 n7 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI2	507000	2535	16.58	17.40	1.208	-	-	0.02	0.745	0.900
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	518598	2592.99	16.29	17.10	1.205	-	-	0.02	0.900	1.085
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	518598	2592.99	16.27	17.10	1.211	-	-	-0.03	0.824	0.998
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	518598	2592.99	16.22	17.10	1.225	-	-	0.14	0.737	0.903
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI2	518598	2592.99	16.29	17.10	1.205	-	-	0.11	0.410	0.494
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI2	518598	2592.99	16.27	17.10	1.211	-	-	-0.05	0.275	0.333
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI2	518598	2592.99	16.29	17.10	1.205	-	-	0.14	0.275	0.331
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI2	518598	2592.99	16.27	17.10	1.211	-	-	-0.17	0.241	0.292
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI2	518598	2592.99	16.29	17.10	1.205	-	-	-0.05	0.248	0.299
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI2	518598	2592.99	16.27	17.10	1.211	-	-	0.01	0.167	0.202
	FR1 n41 PC2 Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	518598	2592.99	16.29	17.10	1.205	-	-	0.06	0.824	0.993
24	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI2	518598	2592.99	16.31	17.30	1.256	-	-	0.12	0.872	1.095
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI2	518598	2592.99	16.19	17.30	1.291	-	-	-0.17	0.765	0.988
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI2	518598	2592.99	16.11	17.30	1.315	-	-	0.04	0.635	0.835
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI2	518598	2592.99	16.31	17.30	1.256	-	-	-0.01	0.605	0.760
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI2	518598	2592.99	16.19	17.30	1.291	-	-	-0.08	0.511	0.660
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI2	518598	2592.99	16.31	17.30	1.256	-	-	0.06	0.446	0.560
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI2	518598	2592.99	16.19	17.30	1.291	-	-	-0.09	0.384	0.496
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI2	518598	2592.99	16.31	17.30	1.256	-	-	0.13	0.298	0.374
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI2	518598	2592.99	16.19	17.30	1.291	-	-	0.12	0.263	0.340
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI2	518598	2592.99	19.35	20.40	1.274	-	-	0.18	0.097	0.124
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI2	518598	2592.99	19.32	20.40	1.282	-	-	0.16	0.092	0.118
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI2	518598	2592.99	19.35	20.40	1.274	-	-	-0.1	0.000	0.000
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI2	518598	2592.99	19.32	20.40	1.282	-	-	0.07	0.000	0.000
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI2	518598	2592.99	19.35	20.40	1.274	-	-	0.01	0.098	0.125
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI2	518598	2592.99	19.32	20.40	1.282	-	-	0.18	0.095	0.122
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI2	518598	2592.99	19.35	20.40	1.274	-	-	-0.1	0.038	0.048
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI2	518598	2592.99	19.32	20.40	1.282	-	-	0.01	0.000	0.000
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI2	518598	2592.99	19.22	20.30	1.282	-	-	-0.15	0.137	0.176
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI2	518598	2592.99	19.17	20.30	1.297	-	-	0.19	0.126	0.163
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI2	518598	2592.99	19.22	20.30	1.282	-	-	0.07	0.055	0.071
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI2	518598	2592.99	19.17	20.30	1.297	-	-	-0.18	0.058	0.075
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI2	518598	2592.99	19.22	20.30	1.282	-	-	0.08	0.366	0.469
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI2	518598	2592.99	19.17	20.30	1.297	-	-	0.03	0.320	0.415
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI2	518598	2592.99	19.22	20.30	1.282	-	-	-0.15	0.058	0.074
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI2	518598	2592.99	19.17	20.30	1.297	-	-	0.11	0.055	0.071
3500MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI2	55830	3609	17.41	18.20	1.199	62.9	1.006	-0.08	0.305	0.368
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI2	55830	3609	17.15	18.20	1.274	62.9	1.006	-0.08	0.259	0.332
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI2	55830	3609	17.41	18.20	1.199	62.9	1.006	-0.13	0.107	0.129
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI2	55830	3609	17.15	18.20	1.274	62.9	1.006	-0.13	0.088	0.113
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI2	55830	3609	17.41	18.20	1.199	62.9	1.006	0.06	0.757	0.913
25	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI2	55340	3560	17.24	18.20	1.247	62.9	1.006	0.07	0.866	1.087
	LTE Band 48C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 4	DSI2	55340+55538	3560+3579.8	17.21	18.20	1.256	62.9	1.006	0.04	0.788	0.996
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI2	56150	3641	17.31	18.20	1.227	62.9	1.006	-0.03	0.716	0.884
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI2	56640	3690	17.34	18.20	1.219	62.9	1.006	-0.03	0.753	0.923



FCC SAR Test Report

Report No. : FA460505

	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI2	55830	3609	17.15	18.20	1.274	62.9	1.006	0.08	0.614	0.787
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI2	55340	3560	17.12	18.20	1.282	62.9	1.006	-0.07	0.707	0.912
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI2	56150	3641	17.28	18.20	1.236	62.9	1.006	0.05	0.589	0.732
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI2	56640	3690	17.19	18.20	1.262	62.9	1.006	-0.11	0.591	0.750
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 4	DSI2	55830	3609	17.08	18.20	1.294	62.9	1.006	-0.12	0.614	0.799
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI2	55830	3609	17.41	18.20	1.199	62.9	1.006	0.03	0.176	0.212
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI2	55830	3609	17.15	18.20	1.274	62.9	1.006	-0.09	0.148	0.190
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI2	641666	3624.99	15.21	15.90	1.172	-	-	0.05	0.337	0.395
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI2	641666	3624.99	15.18	15.90	1.180	-	-	-0.15	0.333	0.393
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI2	641666	3624.99	15.21	15.90	1.172	-	-	0.13	0.111	0.130
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI2	641666	3624.99	15.18	15.90	1.180	-	-	-0.18	0.109	0.129
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	641666	3624.99	15.21	15.90	1.172	-	-	0.02	0.852	0.999
26	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	638000	3570	15.15	15.90	1.189	-	-	-0.06	0.908	1.079
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	645332	3679.98	15.07	15.90	1.211	-	-	0.16	0.793	0.960
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	641666	3624.99	15.18	15.90	1.180	-	-	-0.03	0.830	0.980
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	638000	3570	15.07	15.90	1.211	-	-	0.07	0.886	1.073
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	645332	3679.98	15.00	15.90	1.230	-	-	0	0.773	0.951
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	641666	3624.99	15.11	15.90	1.199	-	-	0.01	0.844	1.012
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI2	641666	3624.99	15.21	15.90	1.172	-	-	-0.01	0.196	0.230
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI2	641666	3624.99	15.18	15.90	1.180	-	-	-0.09	0.189	0.223
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI2	656000	3840	14.68	15.40	1.180	-	-	-0.17	0.237	0.280
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI2	656000	3840	14.63	15.40	1.194	-	-	-0.04	0.230	0.275
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI2	656000	3840	14.68	15.40	1.180	-	-	0	0.081	0.096
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI2	656000	3840	14.63	15.40	1.194	-	-	-0.13	0.076	0.091
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	656000	3840	14.68	15.40	1.180	-	-	-0.12	0.612	0.722
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	656000	3840	14.63	15.40	1.194	-	-	-0.09	0.606	0.724
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI2	656000	3840	14.68	15.40	1.180	-	-	0.02	0.143	0.169
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI2	656000	3840	14.63	15.40	1.194	-	-	-0.13	0.145	0.173
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI2	633334	3500.01	14.07	15.40	1.358	-	-	0.06	0.281	0.382
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI2	633334	3500.01	14.02	15.40	1.374	-	-	0	0.288	0.396
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI2	633334	3500.01	14.07	15.40	1.358	-	-	-0.15	0.097	0.132
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI2	633334	3500.01	14.02	15.40	1.374	-	-	0.11	0.095	0.131
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	633334	3500.01	14.07	15.40	1.358	-	-	0.04	0.759	1.031
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	633334	3500.01	14.02	15.40	1.374	-	-	0.1	0.706	0.970
	FR1 n77 Part 270 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	633334	3500.01	13.89	15.40	1.416	-	-	0.08	0.689	0.975
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI2	633334	3500.01	14.07	15.40	1.358	-	-	0.13	0.161	0.219
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI2	633334	3500.01	14.02	15.40	1.374	-	-	-0.18	0.164	0.225
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI2	641666	3624.99	14.44	15.40	1.247	-	-	-0.16	0.269	0.336
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI2	641666	3624.99	14.39	15.40	1.262	-	-	-0.15	0.239	0.302
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI2	641666	3624.99	14.44	15.40	1.247	-	-	-0.14	0.088	0.110
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI2	641666	3624.99	14.39	15.40	1.262	-	-	-0.19	0.078	0.098
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	641666	3624.99	14.44	15.40	1.247	-	-	-0.16	0.671	0.837
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	641666	3624.99	14.39	15.40	1.262	-	-	0.06	0.579	0.731
	FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	641666	3624.99	14.35	15.40	1.274	-	-	0.09	0.622	0.792
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI2	641666	3624.99	14.44	15.40	1.247	-	-	0.12	0.156	0.195
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI2	641666	3624.99	14.39	15.40	1.262	-	-	-0.16	0.134	0.169
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI2	656000	3840	16.27	16.60	1.079	-	-	0.07	0.629	0.679
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI2	656000	3840	16.20	16.60	1.096	-	-	-0.16	0.453	0.497
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI2	656000	3840	16.27	16.60	1.079	-	-	-0.03	0.082	0.088
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI2	656000	3840	16.20	16.60	1.096	-	-	0.17	0.060	0.066



FCC SAR Test Report

Report No. : FA460505

	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI2	656000	3840	16.27	16.60	1.079	-	-	0.16	0.614	0.662
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI2	656000	3840	16.20	16.60	1.096	-	-	0.05	0.459	0.503
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI2	656000	3840	16.27	16.60	1.079	-	-	-0.13	0.076	0.082
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI2	656000	3840	16.20	16.60	1.096	-	-	-0.01	0.054	0.059
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI2	633334	3500.01	15.15	16.60	1.396	-	-	-0.17	0.702	0.980
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI2	633334	3500.01	15.11	16.60	1.409	-	-	-0.07	0.765	1.078
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI2	633334	3500.01	15.08	16.60	1.419	-	-	-0.03	0.638	0.905
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI2	633334	3500.01	15.15	16.60	1.396	-	-	0.14	0.119	0.166
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI2	633334	3500.01	15.11	16.60	1.409	-	-	0.11	0.126	0.178
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI2	633334	3500.01	15.15	16.60	1.396	-	-	-0.05	0.641	0.895
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI2	633334	3500.01	15.11	16.60	1.409	-	-	0.18	0.724	1.020
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI2	633334	3500.01	15.08	16.60	1.419	-	-	0.14	0.578	0.820
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI2	633334	3500.01	15.15	16.60	1.396	-	-	-0.17	0.103	0.144
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI2	633334	3500.01	15.11	16.60	1.409	-	-	0.17	0.112	0.158
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI2	641666	3624.99	16.19	16.60	1.099	-	-	-0.12	0.839	0.922
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI2	641666	3624.99	16.17	16.60	1.104	-	-	-0.05	0.799	0.882
	FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI2	641666	3624.99	16.12	16.60	1.117	-	-	0.01	0.814	0.909
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI2	641666	3624.99	16.19	16.60	1.099	-	-	0.1	0.132	0.145
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI2	641666	3624.99	16.17	16.60	1.104	-	-	-0.17	0.124	0.137
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI2	641666	3624.99	16.19	16.60	1.099	-	-	0.04	0.808	0.888
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI2	641666	3624.99	16.17	16.60	1.104	-	-	-0.01	0.799	0.882
	FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI2	641666	3624.99	16.12	16.60	1.117	-	-	-0.08	0.787	0.879
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI2	641666	3624.99	16.19	16.60	1.099	-	-	0.05	0.121	0.133
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI2	641666	3624.99	16.17	16.60	1.104	-	-	0.06	0.115	0.127
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	656000	3840	16.82	17.70	1.225	-	-	-0.02	0.575	0.704
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	656000	3840	16.78	17.70	1.236	-	-	0.08	0.416	0.514
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI2	656000	3840	16.82	17.70	1.225	-	-	0.03	0.167	0.205
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI2	656000	3840	16.78	17.70	1.236	-	-	-0.08	0.136	0.168
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI2	656000	3840	16.82	17.70	1.225	-	-	0.1	0.119	0.146
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI2	656000	3840	16.78	17.70	1.236	-	-	-0.18	0.078	0.096
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI2	656000	3840	16.82	17.70	1.225	-	-	0.1	0.066	0.081
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI2	656000	3840	16.78	17.70	1.236	-	-	0.12	0.046	0.057
27	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	633334	3500.01	16.47	17.70	1.327	-	-	0.06	0.813	1.079
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	633334	3500.01	16.44	17.70	1.337	-	-	-0.11	0.639	0.854
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	633334	3500.01	16.35	17.70	1.365	-	-	-0.16	0.534	0.729
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI2	633334	3500.01	16.47	17.70	1.327	-	-	-0.15	0.242	0.321
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI2	633334	3500.01	16.44	17.70	1.337	-	-	-0.06	0.203	0.271
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI2	633334	3500.01	16.47	17.70	1.327	-	-	-0.19	0.180	0.239
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI2	633334	3500.01	16.44	17.70	1.337	-	-	0.01	0.149	0.199
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI2	633334	3500.01	16.47	17.70	1.327	-	-	0.06	0.132	0.175
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI2	633334	3500.01	16.44	17.70	1.337	-	-	0.02	0.096	0.128
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	641666	3624.99	16.97	17.70	1.183	-	-	-0.01	0.788	0.932
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	641666	3624.99	16.93	17.70	1.194	-	-	-0.16	0.639	0.763
	FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	641666	3624.99	16.85	17.70	1.216	-	-	-0.12	0.610	0.742
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI2	641666	3624.99	16.97	17.70	1.183	-	-	0.07	0.233	0.276
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI2	641666	3624.99	16.93	17.70	1.194	-	-	-0.02	0.186	0.222
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI2	641666	3624.99	16.97	17.70	1.183	-	-	-0.13	0.176	0.208



FCC SAR Test Report

Report No. : FA460505

Part 96 PC3																			
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI2	641666	3624.99	16.93	17.70	1.194	-	-	0.08	0.146	0.174
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI2	641666	3624.99	16.97	17.70	1.183	-	-	0.16	0.119	0.141
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI2	641666	3624.99	16.93	17.70	1.194	-	-	0.01	0.109	0.130
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI2	656000	3840	19.55	20.10	1.135	-	-	-0.06	0.139	0.158
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI2	656000	3840	19.53	20.10	1.140	-	-	-0.04	0.108	0.123
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI2	656000	3840	19.55	20.10	1.135	-	-	-0.17	0.118	0.134
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI2	656000	3840	19.53	20.10	1.140	-	-	-0.1	0.099	0.113
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI2	656000	3840	19.55	20.10	1.135	-	-	-0.07	0.243	0.276
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI2	656000	3840	19.53	20.10	1.140	-	-	-0.17	0.200	0.228
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI2	656000	3840	19.55	20.10	1.135	-	-	-0.05	0.087	0.099
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI2	656000	3840	19.53	20.10	1.140	-	-	0	0.084	0.096
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI2	633334	3500.01	19.62	20.10	1.117	-	-	-0.18	0.065	0.073
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI2	633334	3500.01	19.54	20.10	1.138	-	-	0.02	0.080	0.091
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI2	633334	3500.01	19.62	20.10	1.117	-	-	0.16	0.064	0.071
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI2	633334	3500.01	19.54	20.10	1.138	-	-	-0.03	0.074	0.084
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI2	633334	3500.01	19.62	20.10	1.117	-	-	0.07	0.151	0.169
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI2	633334	3500.01	19.54	20.10	1.138	-	-	-0.01	0.195	0.222
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI2	633334	3500.01	19.62	20.10	1.117	-	-	0.01	0.047	0.052
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI2	633334	3500.01	19.54	20.10	1.138	-	-	-0.01	0.056	0.064
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI2	641666	3624.99	18.91	20.10	1.315	-	-	0.05	0.062	0.082
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI2	641666	3624.99	18.87	20.10	1.327	-	-	0.05	0.066	0.088
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI2	641666	3624.99	18.91	20.10	1.315	-	-	-0.03	0.049	0.064
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI2	641666	3624.99	18.87	20.10	1.327	-	-	-0.15	0.049	0.065
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI2	641666	3624.99	18.91	20.10	1.315	-	-	0.02	0.145	0.191
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI2	641666	3624.99	18.87	20.10	1.327	-	-	0.02	0.141	0.187
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI2	641666	3624.99	18.91	20.10	1.315	-	-	0.16	0.037	0.049
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI2	641666	3624.99	18.87	20.10	1.327	-	-	0.13	0.039	0.052



FCC SAR Test Report

Report No. : FA460505

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																
28	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+9(9)	Standalone Non DBS	11	2462	16.64	18.00	1.368	98.35	1.017	-0.07	0.794	1.104
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+9(7)	Standalone Non DBS	1	2412	16.54	18.00	1.400	98.35	1.017	0.01	0.686	0.976
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+9(9)	Standalone Non DBS	6	2437	16.60	18.00	1.380	98.35	1.017	0.02	0.651	0.914
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7+9(9)	Standalone Non DBS	11	2462	16.64	18.00	1.368	98.35	1.017	0.12	0.637	0.886
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7+9(7)	Standalone Non DBS	1	2412	16.54	18.00	1.400	98.35	1.017	0.02	0.616	0.877
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+9(9)	Standalone Non DBS	11	2462	16.64	18.00	1.368	98.35	1.017	0	0.756	1.052
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7+9(7)	Standalone Non DBS	1	2412	16.54	18.00	1.400	98.35	1.017	-0.1	0.589	0.838
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7+9(9)	Standalone Non DBS	11	2462	16.64	18.00	1.368	98.35	1.017	0	0.751	1.045
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7+9(7)	Standalone Non DBS	1	2412	16.54	18.00	1.400	98.35	1.017	0.07	0.600	0.854
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+9(7)	Standalone DBS only	11	2462	13.51	15.00	1.409	98.35	1.017	0.01	0.395	0.566
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+9(9)	Simultaneous Non DBS	11	2462	12.26	14.00	1.493	98.35	1.017	-0.01	0.259	0.393
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7+9(7)	Simultaneous DBS	11	2462	9.97	11.50	1.422	98.35	1.017	-0.06	0.133	0.192
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 9	Standalone Non DBS	11	2462	17.65	19.00	1.365	98.35	1.017	0.06	0.787	1.092
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 9	Standalone Non DBS	1	2412	17.63	19.00	1.371	98.35	1.017	0.08	0.671	0.935
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 9	Standalone Non DBS	6	2437	17.60	19.00	1.380	98.35	1.017	0.01	0.644	0.904
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 9	Standalone Non DBS	11	2462	17.65	19.00	1.365	98.35	1.017	0.03	0.063	0.087
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 9	Standalone Non DBS	11	2462	17.65	19.00	1.365	98.35	1.017	-0.08	0.318	0.441
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 9	Standalone Non DBS	11	2462	17.65	19.00	1.365	98.35	1.017	-0.18	0.092	0.128
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 9	Standalone DBS only	11	2462	14.71	16.00	1.346	98.35	1.017	0.06	0.398	0.545
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 9	Simultaneous Non DBS	11	2462	13.19	14.50	1.352	98.35	1.017	0.01	0.255	0.351
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 9	Simultaneous DBS	11	2462	10.14	11.50	1.368	98.35	1.017	0.08	0.129	0.179
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	-0.08	0.038	0.062
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	-0.04	0.044	0.072
29	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	0.08	0.069	0.113
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	-0.08	0.065	0.106
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Full Power	0	2402	9.12	11.00	1.543	76.78	1.085	0.17	0.053	0.089
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Full Power	78	2480	9.04	11.00	1.571	76.78	1.085	0.18	0.064	0.109
5000MHz																
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 8+10(10)	Standalone Non DBS	50	5250	14.80	16.50	1.479	100	1.000	-0.08	0.332	0.491
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 8+10(10)	Standalone Non DBS	50	5250	14.80	16.50	1.479	100	1.000	-0.08	0.298	0.441
30	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(10)	Standalone Non DBS	50	5250	14.80	16.50	1.479	100	1.000	-0.01	0.801	1.185
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 8+10(10)	Standalone Non DBS	50	5250	14.80	16.50	1.479	100	1.000	0.07	0.589	0.871
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(10)	Standalone DBS only	50	5250	11.96	13.50	1.426	100	1.000	-0.17	0.412	0.587
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(8)	Simultaneous Non DBS	50	5250	11.18	13.00	1.521	100	1.000	-0.03	0.250	0.380
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(10)	Simultaneous DBS	50	5250	8.14	10.00	1.535	100	1.000	0.14	0.129	0.198
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 8+10(10)	Standalone Non DBS	114	5570	15.37	17.00	1.455	100	1.000	-0.08	0.484	0.704
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 8+10(10)	Standalone Non DBS	114	5570	15.37	17.00	1.455	100	1.000	0.12	0.315	0.458
31	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(10)	Standalone Non DBS	114	5570	15.37	17.00	1.455	100	1.000	-0.06	0.823	1.198
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 8+10(10)	Standalone Non DBS	114	5570	15.37	17.00	1.455	100	1.000	-0.05	0.600	0.873
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(10)	Standalone DBS only	114	5570	12.32	14.00	1.472	100	1.000	0.1	0.405	0.596
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(8)	Simultaneous Non DBS	114	5570	11.76	13.50	1.493	100	1.000	0.12	0.255	0.381
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(10)	Simultaneous DBS	114	5570	8.44	10.00	1.432	100	1.000	0.08	0.135	0.193
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 8+10(8)	Standalone Non DBS	155	5775	15.81	17.50	1.476	100	1.000	-0.15	0.316	0.466
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 8+10(8)	Standalone Non DBS	155	5775	15.81	17.50	1.476	100	1.000	-0.18	0.279	0.412
32	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8+10(8)	Standalone Non DBS	155	5775	15.81	17.50	1.476	100	1.000	-0.01	0.766	1.130
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 8+10(8)	Standalone Non DBS	155	5775	15.81	17.50	1.476	100	1.000	-0.08	0.507	0.748
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8+10(8)	Standalone DBS only	155	5775	12.81	14.50	1.476	100	1.000	-0.01	0.399	0.589
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8+10(8)	Simultaneous Non DBS	155	5775	11.43	13.00	1.435	100	1.000	-0.01	0.257	0.369
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 8+10(8)	Simultaneous DBS	155	5775	8.65	10.50	1.531	100	1.000	-0.01	0.122	0.187



15.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
33	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 0	DS11	133297	680.5	22.76	24.00	1.330	-	-	0.18	0.407	0.541
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 0	DS11	133297	680.5	21.68	23.00	1.355	-	-	-0.04	0.349	0.473
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 0	DS11	133297	680.5	22.76	24.00	1.330	-	-	0.05	0.431	0.573
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 0	DS11	133297	680.5	21.68	23.00	1.355	-	-	-0.08	0.369	0.500
	LTE Band 71	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DS11	133297	680.5	22.76	24.00	1.330	-	-	-0.13	0.289	0.385
	LTE Band 71	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DS11	133297	680.5	21.68	23.00	1.355	-	-	-0.13	0.261	0.354
	LTE Band 71	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DS11	133297	680.5	22.76	24.00	1.330	-	-	0.06	0.069	0.092
	LTE Band 71	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DS11	133297	680.5	21.68	23.00	1.355	-	-	-0.03	0.082	0.111
	LTE Band 71	20M	QPSK	1	0	-	Top Side	10mm	Ant 0	DS11	133297	680.5	22.76	24.00	1.330	-	-	-0.03	0.411	0.547
	LTE Band 71	20M	QPSK	50	0	-	Top Side	10mm	Ant 0	DS11	133297	680.5	21.68	23.00	1.355	-	-	0.08	0.371	0.503
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 1	DS11	133297	680.5	21.99	23.50	1.416	-	-	-0.1	0.155	0.219
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 1	DS11	133297	680.5	21.12	22.50	1.374	-	-	0.01	0.127	0.175
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 1	DS11	133297	680.5	21.99	23.50	1.416	-	-	-0.15	0.181	0.256
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 1	DS11	133297	680.5	21.12	22.50	1.374	-	-	0.19	0.147	0.202
	LTE Band 71	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DS11	133297	680.5	21.99	23.50	1.416	-	-	0.07	0.054	0.076
	LTE Band 71	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DS11	133297	680.5	21.12	22.50	1.374	-	-	-0.18	0.045	0.062
34	LTE Band 71	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	DS11	133297	680.5	21.99	23.50	1.416	-	-	0.03	0.207	0.293
	LTE Band 71	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	DS11	133297	680.5	21.12	22.50	1.374	-	-	-0.15	0.169	0.232
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DS11	133297	680.5	21.99	23.50	1.416	-	-	-0.15	0.137	0.194
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 1	DS11	133297	680.5	21.12	22.50	1.374	-	-	0.11	0.108	0.148
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 0	DS11	23095	707.5	23.89	25.00	1.291	-	-	-0.07	0.491	0.634
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 0	DS11	23095	707.5	22.85	24.00	1.303	-	-	0.05	0.391	0.510
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 0	DS11	23095	707.5	23.89	25.00	1.291	-	-	-0.18	0.524	0.677
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 0	DS11	23095	707.5	22.85	24.00	1.303	-	-	-0.11	0.420	0.547
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DS11	23095	707.5	23.89	25.00	1.291	-	-	-0.12	0.355	0.458
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DS11	23095	707.5	22.85	24.00	1.303	-	-	0.03	0.290	0.378
	LTE Band 12	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DS11	23095	707.5	23.89	25.00	1.291	-	-	-0.16	0.070	0.090
	LTE Band 12	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DS11	23095	707.5	22.85	24.00	1.303	-	-	-0.02	0.052	0.068
	LTE Band 12	10M	QPSK	1	0	-	Top Side	10mm	Ant 0	DS11	23095	707.5	23.89	25.00	1.291	-	-	0.15	0.493	0.637
	LTE Band 12	10M	QPSK	25	0	-	Top Side	10mm	Ant 0	DS11	23095	707.5	22.85	24.00	1.303	-	-	-0.09	0.373	0.486
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 1	DS11	23095	707.5	22.52	24.00	1.406	-	-	-0.17	0.228	0.321
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 1	DS11	23095	707.5	21.68	23.00	1.355	-	-	-0.08	0.191	0.259
35	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 1	DS11	23095	707.5	22.52	24.00	1.406	-	-	-0.04	0.262	0.368
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 1	DS11	23095	707.5	21.68	23.00	1.355	-	-	-0.08	0.219	0.297
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DS11	23095	707.5	22.52	24.00	1.406	-	-	0.17	0.058	0.082
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DS11	23095	707.5	21.68	23.00	1.355	-	-	0.18	0.049	0.066
	LTE Band 12	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	DS11	23095	707.5	22.52	24.00	1.406	-	-	-0.04	0.233	0.328
	LTE Band 12	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	DS11	23095	707.5	21.68	23.00	1.355	-	-	-0.08	0.198	0.268
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DS11	23095	707.5	22.52	24.00	1.406	-	-	-0.13	0.196	0.276
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 1	DS11	23095	707.5	21.68	23.00	1.355	-	-	-0.13	0.162	0.220
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 0	DS11	23230	782	23.71	25.00	1.346	-	-	-0.15	0.526	0.708
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 0	DS11	23230	782	22.71	24.00	1.346	-	-	0.11	0.428	0.576
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 0	DS11	23230	782	23.71	25.00	1.346	-	-	-0.03	0.542	0.729
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 0	DS11	23230	782	22.71	24.00	1.346	-	-	-0.08	0.450	0.606
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DS11	23230	782	23.71	25.00	1.346	-	-	-0.17	0.380	0.511
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DS11	23230	782	22.71	24.00	1.346	-	-	-0.08	0.325	0.437
	LTE Band 13	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DS11	23230	782	23.71	25.00	1.346	-	-	-0.04	0.116	0.156
	LTE Band 13	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DS11	23230	782	22.71	24.00	1.346	-	-	-0.08	0.102	0.137
	LTE Band 13	10M	QPSK	1	0	-	Top Side	10mm	Ant 0	DS11	23230	782	23.71	25.00	1.346	-	-	0.09	0.556	0.748
	LTE Band 13	10M	QPSK	25	0	-	Top Side	10mm	Ant 0	DS11	23230	782	22.71	24.00	1.346	-	-	0.17	0.429	0.577



FCC SAR Test Report

Report No. : FA460505

	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI1	23230	782	22.45	24.00	1.429	-	-	-0.03	0.231	0.330
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI1	23230	782	21.62	23.00	1.374	-	-	-0.03	0.187	0.257
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI1	23230	782	22.45	24.00	1.429	-	-	0.08	0.266	0.380
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI1	23230	782	21.62	23.00	1.374	-	-	-0.07	0.213	0.293
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI1	23230	782	22.45	24.00	1.429	-	-	0.05	0.000	0.000
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI1	23230	782	21.62	23.00	1.374	-	-	-0.11	0.000	0.000
	LTE Band 13	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI1	23230	782	22.45	24.00	1.429	-	-	-0.12	0.189	0.270
	LTE Band 13	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	DSI1	23230	782	21.62	23.00	1.374	-	-	0.03	0.152	0.209
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI1	23230	782	22.45	24.00	1.429	-	-	-0.16	0.183	0.261
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 1	DSI1	23230	782	21.62	23.00	1.374	-	-	-0.02	0.147	0.202
	LTE Band 14	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI1	23330	793	23.83	25.00	1.309	-	-	-0.1	0.599	0.784
	LTE Band 14	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI1	23330	793	22.82	24.00	1.312	-	-	0.01	0.478	0.627
	LTE Band 14	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI1	23330	793	23.83	25.00	1.309	-	-	-0.04	0.607	0.795
	LTE Band 14	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI1	23330	793	22.82	24.00	1.312	-	-	-0.15	0.504	0.661
	LTE Band 14	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI1	23330	793	23.83	25.00	1.309	-	-	0.19	0.464	0.607
	LTE Band 14	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DSI1	23330	793	22.82	24.00	1.312	-	-	0.07	0.373	0.489
	LTE Band 14	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI1	23330	793	23.83	25.00	1.309	-	-	-0.18	0.141	0.185
	LTE Band 14	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI1	23330	793	22.82	24.00	1.312	-	-	0.03	0.118	0.155
36	LTE Band 14	10M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI1	23330	793	23.83	25.00	1.309	-	-	0.04	0.679	0.889
	LTE Band 14	10M	QPSK	25	0	-	Top Side	10mm	Ant 0	DSI1	23330	793	22.82	24.00	1.312	-	-	-0.15	0.520	0.682
	LTE Band 14	10M	QPSK	50	0	-	Top Side	10mm	Ant 0	DSI1	23330	793	22.80	24.00	1.318	-	-	0.01	0.602	0.794
	LTE Band 14	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI1	23330	793	22.47	24.00	1.422	-	-	-0.09	0.193	0.275
	LTE Band 14	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI1	23330	793	21.54	23.00	1.400	-	-	0.11	0.158	0.221
	LTE Band 14	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI1	23330	793	22.47	24.00	1.422	-	-	-0.05	0.226	0.321
	LTE Band 14	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI1	23330	793	21.54	23.00	1.400	-	-	-0.08	0.185	0.259
	LTE Band 14	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI1	23330	793	22.47	24.00	1.422	-	-	0.16	0.000	0.000
	LTE Band 14	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI1	23330	793	21.54	23.00	1.400	-	-	0.05	0.000	0.000
	LTE Band 14	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI1	23330	793	22.47	24.00	1.422	-	-	0.05	0.159	0.226
	LTE Band 14	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	DSI1	23330	793	21.54	23.00	1.400	-	-	-0.03	0.135	0.189
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI1	23330	793	22.47	24.00	1.422	-	-	-0.15	0.141	0.201
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 1	DSI1	23330	793	21.54	23.00	1.400	-	-	0.02	0.115	0.161
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	136100	680.5	22.65	24.00	1.365	-	-	-0.08	0.436	0.595
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	136100	680.5	22.48	24.00	1.419	-	-	0.13	0.479	0.680
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	136100	680.5	22.65	24.00	1.365	-	-	0.12	0.496	0.677
37	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	136100	680.5	22.48	24.00	1.419	-	-	-0.09	0.511	0.725
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI1	136100	680.5	22.65	24.00	1.365	-	-	0.03	0.306	0.418
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI1	136100	680.5	22.48	24.00	1.419	-	-	0.18	0.373	0.529
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI1	136100	680.5	22.65	24.00	1.365	-	-	0.16	0.068	0.093
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI1	136100	680.5	22.48	24.00	1.419	-	-	-0.1	0.140	0.199
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	136100	680.5	22.65	24.00	1.365	-	-	0.07	0.438	0.598
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	136100	680.5	22.48	24.00	1.419	-	-	0.18	0.510	0.724
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI4	136100	680.5	22.53	24.00	1.403	-	-	0.16	0.210	0.295
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI4	136100	680.5	22.23	24.00	1.503	-	-	0.13	0.175	0.263
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI4	136100	680.5	22.53	24.00	1.403	-	-	-0.18	0.238	0.334
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI4	136100	680.5	22.23	24.00	1.503	-	-	0.02	0.208	0.313
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI4	136100	680.5	22.53	24.00	1.403	-	-	0.16	0.127	0.178
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI4	136100	680.5	22.23	24.00	1.503	-	-	-0.03	0.100	0.150
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI4	136100	680.5	22.53	24.00	1.403	-	-	0.07	0.270	0.379
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI4	136100	680.5	22.23	24.00	1.503	-	-	0	0.249	0.374
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI4	136100	680.5	22.53	24.00	1.403	-	-	0.01	0.152	0.213
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI4	136100	680.5	22.23	24.00	1.503	-	-	-0.01	0.123	0.185
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	141500	707.5	23.79	25.00	1.321	-	-	0.01	0.541	0.715
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	141500	707.5	23.67	25.00	1.358	-	-	0.1	0.595	0.808
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	141500	707.5	22.75	24.00	1.334	-	-	0.09	0.559	0.745
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	141500	707.5	23.79	25.00	1.321	-	-	-0.17	0.582	0.769
38	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	141500	707.5	23.67	25.00	1.358	-	-	-0.07	0.634	0.861



FCC SAR Test Report

Report No. : FA460505

	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	141500	707.5	22.75	24.00	1.334	-	-	0.03	0.546	0.728
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI1	141500	707.5	23.79	25.00	1.321	-	-	0.04	0.423	0.559
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI1	141500	707.5	23.67	25.00	1.358	-	-	-0.01	0.416	0.565
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI1	141500	707.5	23.79	25.00	1.321	-	-	-0.08	0.087	0.115
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI1	141500	707.5	23.67	25.00	1.358	-	-	0.05	0.070	0.095
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	141500	707.5	23.79	25.00	1.321	-	-	0.06	0.559	0.739
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	141500	707.5	23.67	25.00	1.358	-	-	-0.09	0.601	0.816
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	141500	707.5	22.75	24.00	1.334	-	-	0.04	0.533	0.711
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI4	141500	707.5	23.15	24.40	1.334	-	-	-0.07	0.565	0.753
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI4	141500	707.5	22.49	24.00	1.416	-	-	-0.04	0.254	0.360
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI4	141500	707.5	22.32	24.00	1.472	-	-	-0.09	0.258	0.380
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI4	141500	707.5	22.49	24.00	1.416	-	-	-0.17	0.288	0.408
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI4	141500	707.5	22.32	24.00	1.472	-	-	-0.1	0.290	0.427
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI4	141500	707.5	22.49	24.00	1.416	-	-	0.18	0.146	0.207
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI4	141500	707.5	22.32	24.00	1.472	-	-	-0.17	0.132	0.194
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI4	141500	707.5	22.49	24.00	1.416	-	-	-0.04	0.263	0.372
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI4	141500	707.5	22.32	24.00	1.472	-	-	-0.05	0.284	0.418
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI4	141500	707.5	22.49	24.00	1.416	-	-	0	0.205	0.290
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI4	141500	707.5	22.32	24.00	1.472	-	-	-0.13	0.198	0.292
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	156400	782	23.72	25.00	1.343	-	-	0.08	0.567	0.761
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	156400	782	23.55	25.00	1.396	-	-	0.01	0.614	0.857
	FR1 n13	10M	QPSK	50	0	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	156400	782	23.55	25.00	1.396	-	-	0.06	0.562	0.785
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	156400	782	23.72	25.00	1.343	-	-	0.03	0.604	0.811
39	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	156400	782	23.55	25.00	1.396	-	-	-0.09	0.657	0.917
	FR1 n13	10M	QPSK	50	0	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	156400	782	23.55	25.00	1.396	-	-	0.03	0.546	0.762
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI1	156400	782	23.72	25.00	1.343	-	-	-0.08	0.423	0.568
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI1	156400	782	23.55	25.00	1.396	-	-	-0.08	0.487	0.680
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI1	156400	782	23.72	25.00	1.343	-	-	0.1	0.134	0.180
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI1	156400	782	23.55	25.00	1.396	-	-	-0.18	0.148	0.207
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	156400	782	23.72	25.00	1.343	-	-	0.1	0.617	0.828
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	156400	782	23.55	25.00	1.396	-	-	0.12	0.609	0.850
	FR1 n13	10M	QPSK	50	0	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	156400	782	23.55	25.00	1.396	-	-	0.02	0.549	0.767
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI4	156400	782	23.08	24.40	1.355	-	-	-0.09	0.586	0.794
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI4	156400	782	22.42	24.00	1.439	-	-	-0.09	0.263	0.378
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI4	156400	782	22.17	24.00	1.524	-	-	0.05	0.253	0.386
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI4	156400	782	22.42	24.00	1.439	-	-	0.02	0.316	0.455
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI4	156400	782	22.17	24.00	1.524	-	-	-0.13	0.293	0.447
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI4	156400	782	22.42	24.00	1.439	-	-	0.17	0.094	0.135
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI4	156400	782	22.17	24.00	1.524	-	-	0.06	0.081	0.123
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI4	156400	782	22.42	24.00	1.439	-	-	0	0.239	0.344
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI4	156400	782	22.17	24.00	1.524	-	-	-0.04	0.241	0.367
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI4	156400	782	22.42	24.00	1.439	-	-	-0.15	0.234	0.337
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI4	156400	782	22.17	24.00	1.524	-	-	0.11	0.215	0.328
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	158600	793	23.69	25.00	1.352	-	-	0.08	0.592	0.800
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	158600	793	23.51	25.00	1.409	-	-	-0.17	0.590	0.831
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	158600	793	22.53	24.00	1.403	-	-	0.09	0.474	0.665
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	158600	793	23.69	25.00	1.352	-	-	-0.03	0.610	0.825
40	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	158600	793	23.51	25.00	1.409	-	-	-0.01	0.649	0.915
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	158600	793	22.53	24.00	1.403	-	-	0.14	0.487	0.683
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI1	158600	793	23.69	25.00	1.352	-	-	0.11	0.448	0.606
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI1	158600	793	23.51	25.00	1.409	-	-	-0.05	0.454	0.640
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI1	158600	793	23.69	25.00	1.352	-	-	0.18	0.146	0.197
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI1	158600	793	23.51	25.00	1.409	-	-	0.14	0.148	0.209
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	158600	793	23.69	25.00	1.352	-	-	-0.17	0.612	0.827
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	158600	793	23.51	25.00	1.409	-	-	0.17	0.568	0.800
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	158600	793	22.53	24.00	1.403	-	-	-0.05	0.545	0.765



FCC SAR Test Report

Report No. : FA460505

	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI4	158600	793	23.02	24.40	1.374	-	-	-0.01	0.578	0.794
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI4	158600	793	22.54	24.00	1.400	-	-	0.1	0.243	0.340
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI4	158600	793	22.27	24.00	1.489	-	-	0.04	0.225	0.335
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI4	158600	793	22.54	24.00	1.400	-	-	0.13	0.289	0.404
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI4	158600	793	22.27	24.00	1.489	-	-	-0.18	0.268	0.399
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI4	158600	793	22.54	24.00	1.400	-	-	-0.11	0.073	0.102
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI4	158600	793	22.27	24.00	1.489	-	-	-0.16	0.065	0.097
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI4	158600	793	22.54	24.00	1.400	-	-	-0.15	0.233	0.326
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI4	158600	793	22.27	24.00	1.489	-	-	-0.06	0.221	0.329
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI4	158600	793	22.54	24.00	1.400	-	-	-0.14	0.201	0.281
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI4	158600	793	22.27	24.00	1.489	-	-	-0.19	0.197	0.293
835MHz																				
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI1	4182	836.4	23.98	25.00	1.265	-	-	0.07	0.635	0.803
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI1	4132	826.4	23.93	25.00	1.279	-	-	-0.17	0.602	0.770
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI1	4233	846.6	23.95	25.00	1.274	-	-	0.1	0.636	0.810
41	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI1	4182	836.4	23.98	25.00	1.265	-	-	-0.1	0.690	0.873
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI1	4132	826.4	23.93	25.00	1.279	-	-	0.08	0.625	0.800
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI1	4233	846.6	23.95	25.00	1.274	-	-	0	0.670	0.853
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	DSI1	4182	836.4	23.98	25.00	1.265	-	-	-0.13	0.356	0.450
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI1	4182	836.4	23.98	25.00	1.265	-	-	-0.1	0.121	0.153
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 0	DSI1	4182	836.4	23.98	25.00	1.265	-	-	-0.07	0.689	0.871
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 0	DSI1	4132	826.4	23.93	25.00	1.279	-	-	0.11	0.665	0.851
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 0	DSI1	4233	846.6	23.95	25.00	1.274	-	-	-0.17	0.655	0.834
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI4	4182	836.4	23.48	24.50	1.265	-	-	-0.1	0.615	0.778
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI4	4182	836.4	22.71	24.00	1.346	-	-	0.01	0.257	0.346
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI4	4182	836.4	22.71	24.00	1.346	-	-	0.06	0.212	0.285
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI4	4182	836.4	22.71	24.00	1.346	-	-	0.02	0.050	0.067
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	DSI4	4182	836.4	22.71	24.00	1.346	-	-	0.12	0.130	0.175
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	DSI4	4182	836.4	22.71	24.00	1.346	-	-	-0.16	0.132	0.178
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 0	DSI1	26865	831.5	23.62	25.00	1.374	-	-	0	0.520	0.715
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 0	DSI1	26865	831.5	22.75	24.00	1.334	-	-	-0.14	0.473	0.631
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	DSI1	26865	831.5	23.62	25.00	1.374	-	-	-0.05	0.588	0.808
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	DSI1	26865	831.5	22.75	24.00	1.334	-	-	0.01	0.531	0.708
	LTE Band 26	15M	QPSK	75	0	-	Back	10mm	Ant 0	DSI1	26865	831.5	22.63	24.00	1.371	-	-	0.09	0.509	0.698
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI1	26865	831.5	23.62	25.00	1.374	-	-	0.18	0.407	0.559
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 0	DSI1	26865	831.5	22.75	24.00	1.334	-	-	0.02	0.352	0.469
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI1	26865	831.5	23.62	25.00	1.374	-	-	0.16	0.110	0.151
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 0	DSI1	26865	831.5	22.75	24.00	1.334	-	-	0.06	0.098	0.131
42	LTE Band 26	15M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI1	26865	831.5	23.62	25.00	1.374	-	-	0.09	0.747	1.026
	LTE Band 5B	10M	QPSK	1	49	-	Top Side	10mm	Ant 0	DSI1	20476+ 20575	826.6+ 836.5	23.47	25.00	1.422	-	-	0.09	0.687	0.977
	LTE Band 26	15M	QPSK	36	0	-	Top Side	10mm	Ant 0	DSI1	26865	831.5	22.75	24.00	1.334	-	-	-0.02	0.652	0.869
	LTE Band 26	15M	QPSK	75	0	-	Top Side	10mm	Ant 0	DSI1	26865	831.5	22.63	24.00	1.371	-	-	0.09	0.641	0.879
	LTE Band 26	15M	QPSK	1	0	-	Top Side	10mm	Ant 0	DSI4	26865	831.5	22.65	23.60	1.245	-	-	0.09	0.633	0.788
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	DSI4	26865	831.5	22.34	23.60	1.337	-	-	0.07	0.233	0.311
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	DSI4	26865	831.5	21.49	23.00	1.416	-	-	-0.02	0.186	0.263
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	DSI4	26865	831.5	22.34	23.60	1.337	-	-	-0.05	0.251	0.335
	LTE Band 5B	10M	QPSK	1	49	-	Back	10mm	Ant 1	DSI4	20476+ 20575	826.6+ 836.5	22.21	23.60	1.377	-	-	0.05	0.211	0.291
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	DSI4	26865	831.5	21.49	23.00	1.416	-	-	-0.13	0.202	0.286
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI4	26865	831.5	22.34	23.60	1.337	-	-	0.08	0.062	0.083
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	DSI4	26865	831.5	21.49	23.00	1.416	-	-	0.16	0.051	0.072
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 1	DSI4	26865	831.5	22.34	23.60	1.337	-	-	0.01	0.150	0.200
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 1	DSI4	26865	831.5	21.49	23.00	1.416	-	-	-0.16	0.121	0.171
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	DSI4	26865	831.5	22.34	23.60	1.337	-	-	0.1	0.159	0.213
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 1	DSI4	26865	831.5	21.49	23.00	1.416	-	-	-0.04	0.129	0.183
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	166300	831.5	23.73	25.00	1.340	-	-	-0.15	0.646	0.865



FCC SAR Test Report

Report No. : FA460505

	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	166300	831.5	23.46	25.00	1.426	-	-	-0.12	0.714	1.018
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI1	166300	831.5	22.66	24.00	1.361	-	-	-0.16	0.539	0.734
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	166300	831.5	23.73	25.00	1.340	-	-	-0.03	0.690	0.924
43	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	166300	831.5	23.46	25.00	1.426	-	-	-0.06	0.756	1.078
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI1	166300	831.5	22.66	24.00	1.361	-	-	0.17	0.577	0.786
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI1	166300	831.5	23.73	25.00	1.340	-	-	0.02	0.379	0.508
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI1	166300	831.5	23.46	25.00	1.426	-	-	0	0.399	0.569
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI1	166300	831.5	23.73	25.00	1.340	-	-	0.18	0.100	0.134
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI1	166300	831.5	23.46	25.00	1.426	-	-	-0.11	0.117	0.167
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	166300	831.5	23.73	25.00	1.340	-	-	-0.05	0.724	0.970
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	166300	831.5	23.46	25.00	1.426	-	-	-0.04	0.704	1.004
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Top Side	10mm	Ant 0	DSI1	166300	831.5	22.66	24.00	1.361	-	-	-0.08	0.596	0.811
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI4	166300	831.5	22.21	23.60	1.377	-	-	-0.06	0.571	0.786
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI4	166300	831.5	22.01	23.60	1.442	-	-	0	0.228	0.329
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI4	166300	831.5	21.65	23.60	1.567	-	-	-0.11	0.250	0.392
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI4	166300	831.5	22.01	23.60	1.442	-	-	-0.06	0.279	0.402
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI4	166300	831.5	21.65	23.60	1.567	-	-	-0.15	0.302	0.473
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI4	166300	831.5	22.01	23.60	1.442	-	-	0.03	0.064	0.092
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI4	166300	831.5	21.65	23.60	1.567	-	-	-0.13	0.062	0.097
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI4	166300	831.5	22.01	23.60	1.442	-	-	0.16	0.151	0.218
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 1	DSI4	166300	831.5	21.65	23.60	1.567	-	-	-0.15	0.153	0.240
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI4	166300	831.5	22.01	23.60	1.442	-	-	-0.02	0.180	0.260
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 1	DSI4	166300	831.5	21.65	23.60	1.567	-	-	-0.09	0.196	0.307
900MHz																				
44	RFID	-	-	-	-	-	Front	10mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	0.05	0.698	0.284
	RFID	-	-	-	-	-	Back	10mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	0.08	0.422	0.171
	RFID	-	-	-	-	-	Left Side	10mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	0.01	0.218	0.089
	RFID	-	-	-	-	-	Right Side	10mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	0.03	0.079	0.032
	RFID	-	-	-	-	-	Top Side	10mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	-0.08	0.562	0.228
	RFID	-	-	-	-	-	Bottom Side	10mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	-0.08	0.000	0.000
	RFID	-	-	-	-	-	Front	10mm	-	-	-	902.75	23.84	25.00	1.307	86.92	0.345	0.1	0.535	0.241
	RFID	-	-	-	-	-	Front	10mm	-	-	-	914.75	24.12	25.00	1.225	86.92	0.345	-0.18	0.571	0.241
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	DSI1	1413	1732.6	21.79	22.90	1.291	-	-	-0.18	0.546	0.705
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	DSI1	1312	1712.4	21.68	22.90	1.324	-	-	-0.03	0.519	0.687
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	DSI1	1413	1732.6	21.79	22.90	1.291	-	-	-0.09	0.708	0.914
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	DSI1	1312	1712.4	21.68	22.90	1.324	-	-	0.18	0.682	0.903
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	DSI1	1513	1752.6	21.71	22.90	1.315	-	-	0.11	0.702	0.923
45	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI1	1413	1732.6	21.79	22.90	1.291	-	-	0.02	0.833	1.076
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI1	1312	1712.4	21.68	22.90	1.324	-	-	0.07	0.761	1.008
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI1	1513	1752.6	21.71	22.90	1.315	-	-	-0.03	0.813	1.069
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 2	DSI1	1413	1732.6	21.79	22.90	1.291	-	-	0.09	0.042	0.054
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 2	DSI1	1413	1732.6	21.79	22.90	1.291	-	-	-0.08	0.230	0.297
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI1	1413	1732.6	21.79	22.90	1.291	-	-	-0.05	0.091	0.118
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI4	1413	1732.6	20.29	21.40	1.291	-	-	0.02	0.590	0.762
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI1	132322	1745	21.59	22.10	1.125	-	-	-0.08	0.510	0.574
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI1	132322	1745	21.51	22.10	1.146	-	-	-0.11	0.419	0.480
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI1	132322	1745	21.59	22.10	1.125	-	-	-0.01	0.629	0.707
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI1	132322	1745	21.51	22.10	1.146	-	-	0.09	0.500	0.573
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI1	132322	1745	21.59	22.10	1.125	-	-	0.12	0.882	0.992
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI1	132072	1720	21.38	22.10	1.180	-	-	-0.11	0.801	0.945
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI1	132572	1770	21.32	22.10	1.197	-	-	0.05	0.896	1.072
	LTE Band 66C	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI1	132572+132374	1770+1750.2	21.25	22.10	1.216	-	-	0.09	0.802	0.975
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI1	132322	1745	21.51	22.10	1.146	-	-	0.17	0.707	0.810
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI1	132072	1720	21.18	22.10	1.236	-	-	-0.16	0.657	0.812
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI1	132572	1770	21.33	22.10	1.194	-	-	-0.17	0.733	0.875



FCC SAR Test Report

Report No. : FA460505

	LTE Band 66	20M	QPSK	100	0	-	Left Side	10mm	Ant 2	DSI1	132322	1745	21.24	22.10	1.219	-	-	0.11	0.692	0.844
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI1	132322	1745	21.59	22.10	1.125	-	-	-0.05	0.000	0.000
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI1	132322	1745	21.51	22.10	1.146	-	-	-0.01	0.000	0.000
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI1	132322	1745	21.59	22.10	1.125	-	-	-0.14	0.232	0.261
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	DSI1	132322	1745	21.51	22.10	1.146	-	-	-0.15	0.189	0.217
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI1	132322	1745	21.59	22.10	1.125	-	-	-0.12	0.058	0.065
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI1	132322	1745	21.51	22.10	1.146	-	-	-0.17	0.041	0.047
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI4	132572	1770	19.82	20.60	1.197	-	-	0.05	0.634	0.759
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI1	132322	1745	22.15	23.00	1.216	-	-	-0.11	0.445	0.541
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI1	132322	1745	21.65	23.00	1.365	-	-	-0.18	0.382	0.521
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI1	132322	1745	22.15	23.00	1.216	-	-	0.01	0.509	0.619
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI1	132322	1745	21.65	23.00	1.365	-	-	0.12	0.406	0.554
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 5	DSI1	132322	1745	22.15	23.00	1.216	-	-	-0.06	0.285	0.347
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 5	DSI1	132322	1745	21.65	23.00	1.365	-	-	0	0.232	0.317
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	DSI1	132322	1745	22.15	23.00	1.216	-	-	-0.03	0.265	0.322
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	DSI1	132322	1745	21.65	23.00	1.365	-	-	0.07	0.220	0.300
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	DSI1	132322	1745	22.15	23.00	1.216	-	-	-0.12	0.034	0.041
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	DSI1	132322	1745	21.65	23.00	1.365	-	-	-0.03	0.034	0.046
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI1	132322	1745	22.15	23.00	1.216	-	-	0.02	0.751	0.913
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI1	132072	1720	21.93	23.00	1.279	-	-	0.12	0.751	0.961
46	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI1	132572	1770	21.78	23.00	1.324	-	-	-0.06	0.821	1.087
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 5	DSI1	132322	1745	21.65	23.00	1.365	-	-	0.02	0.636	0.868
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 5	DSI1	132072	1720	21.60	23.00	1.380	-	-	-0.03	0.599	0.827
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 5	DSI1	132572	1770	21.59	23.00	1.384	-	-	0	0.605	0.837
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 5	DSI1	132322	1745	21.67	23.00	1.358	-	-	-0.1	0.646	0.877
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI4	132572	1770	20.28	21.50	1.324	-	-	-0.06	0.581	0.769
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI1	349000	1745	21.15	22.10	1.245	-	-	-0.06	0.609	0.758
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI1	349000	1745	21.09	22.10	1.262	-	-	-0.17	0.693	0.874
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI1	349000	1745	21.04	22.10	1.276	-	-	0.02	0.595	0.759
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI1	349000	1745	21.15	22.10	1.245	-	-	-0.11	0.640	0.796
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI1	349000	1745	21.09	22.10	1.262	-	-	0.14	0.691	0.872
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI1	349000	1745	21.04	22.10	1.276	-	-	0.09	0.674	0.860
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI1	349000	1745	21.15	22.10	1.245	-	-	0.06	0.818	1.018
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI1	349000	1745	21.09	22.10	1.262	-	-	0.1	0.799	1.008
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI1	349000	1745	21.04	22.10	1.276	-	-	0.16	0.640	0.817
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI1	349000	1745	21.15	22.10	1.245	-	-	-0.06	0.202	0.251
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI1	349000	1745	21.09	22.10	1.262	-	-	0.02	0.212	0.268
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI1	349000	1745	21.15	22.10	1.245	-	-	-0.16	0.094	0.117
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI1	349000	1745	21.09	22.10	1.262	-	-	0.05	0.085	0.107
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI4	349000	1745	19.65	20.60	1.245	-	-	0.06	0.609	0.758
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 5	DSI1	349000	1745	23.37	24.20	1.211	-	-	-0.05	0.570	0.690
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 5	DSI1	349000	1745	23.30	24.20	1.230	-	-	-0.13	0.574	0.706
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	DSI1	349000	1745	23.37	24.20	1.211	-	-	0.16	0.597	0.723
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 5	DSI1	349000	1745	23.30	24.20	1.230	-	-	0.01	0.621	0.764
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 5	DSI1	349000	1745	23.37	24.20	1.211	-	-	0.1	0.281	0.340
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 5	DSI1	349000	1745	23.30	24.20	1.230	-	-	-0.04	0.331	0.407
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 5	DSI1	349000	1745	23.37	24.20	1.211	-	-	-0.01	0.229	0.277
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 5	DSI1	349000	1745	23.30	24.20	1.230	-	-	0	0.301	0.370
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 5	DSI1	349000	1745	23.37	24.20	1.211	-	-	-0.11	0.056	0.068
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 5	DSI1	349000	1745	23.30	24.20	1.230	-	-	-0.06	0.070	0.086
47	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 5	DSI1	349000	1745	23.37	24.20	1.211	-	-	0.02	0.890	1.077
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 5	DSI1	349000	1745	23.30	24.20	1.230	-	-	-0.15	0.865	1.064
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	10mm	Ant 5	DSI1	349000	1745	22.79	24.00	1.321	-	-	0.03	0.719	0.950
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 5	DSI4	349000	1745	21.62	22.50	1.225	-	-	0.02	0.630	0.772
1900MHz																				
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	DSI1	9400	1880	20.97	21.70	1.183	-	-	-0.15	0.462	0.547



FCC SAR Test Report

Report No. : FA460505

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	DSI1	9400	1880	20.97	21.70	1.183	-	-	0.14	0.535	0.633
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI1	9400	1880	20.97	21.70	1.183	-	-	0.07	0.759	0.898
48	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI1	9262	1852.4	20.84	21.70	1.219	-	-	0.05	0.841	1.025
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI1	9538	1907.6	20.88	21.70	1.208	-	-	-0.09	0.629	0.760
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 2	DSI1	9400	1880	20.97	21.70	1.183	-	-	-0.16	0.018	0.021
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 2	DSI1	9400	1880	20.97	21.70	1.183	-	-	-0.18	0.147	0.174
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI1	9400	1880	20.97	21.70	1.183	-	-	-0.07	0.042	0.050
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI4	9262	1852.4	19.34	20.20	1.219	-	-	0.05	0.625	0.762
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI1	18900	1880	22.35	23.20	1.216	-	-	0	0.422	0.513
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI1	18900	1880	21.93	23.20	1.340	-	-	-0.09	0.353	0.473
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI1	18900	1880	22.35	23.20	1.216	-	-	0.17	0.506	0.615
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI1	18900	1880	21.93	23.20	1.340	-	-	-0.04	0.404	0.541
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 5	DSI1	18900	1880	22.35	23.20	1.216	-	-	0.1	0.245	0.298
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 5	DSI1	18900	1880	21.93	23.20	1.340	-	-	0.04	0.206	0.276
	LTE Band 2	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	DSI1	18900	1880	22.35	23.20	1.216	-	-	0.13	0.156	0.190
	LTE Band 2	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	DSI1	18900	1880	21.93	23.20	1.340	-	-	-0.18	0.134	0.180
	LTE Band 2	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	DSI1	18900	1880	22.35	23.20	1.216	-	-	-0.11	0.032	0.039
	LTE Band 2	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	DSI1	18900	1880	21.93	23.20	1.340	-	-	-0.16	0.029	0.039
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI1	18900	1880	22.35	23.20	1.216	-	-	-0.15	0.793	0.964
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI1	18700	1860	22.17	23.20	1.268	-	-	-0.06	0.742	0.941
49	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI1	19100	1900	22.03	23.20	1.309	-	-	0.03	0.824	1.079
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 5	DSI1	18900	1880	21.93	23.20	1.340	-	-	-0.14	0.679	0.910
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 5	DSI1	18700	1860	21.90	23.20	1.349	-	-	-0.19	0.629	0.848
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 5	DSI1	19100	1900	21.85	23.20	1.365	-	-	0.01	0.686	0.936
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 5	DSI1	18900	1880	21.90	23.20	1.349	-	-	0.06	0.692	0.933
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 5	DSI4	19100	1900	20.53	21.70	1.309	-	-	0.02	0.583	0.763
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI1	26340	1880	21.06	21.70	1.159	-	-	-0.09	0.441	0.511
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI1	26340	1880	21.01	21.70	1.172	-	-	-0.08	0.347	0.407
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI1	26340	1880	21.06	21.70	1.159	-	-	0.05	0.521	0.604
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI1	26340	1880	21.01	21.70	1.172	-	-	-0.15	0.426	0.499
	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI1	26340	1880	21.06	21.70	1.159	-	-	0.13	0.760	0.881
50	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI1	26140	1860	20.84	21.70	1.219	-	-	0.01	0.834	1.017
	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI1	26590	1905	20.91	21.70	1.199	-	-	-0.18	0.673	0.807
	LTE Band 25	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI1	26340	1880	21.01	21.70	1.172	-	-	0.02	0.704	0.825
	LTE Band 25	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI1	26140	1860	20.72	21.70	1.253	-	-	0.16	0.654	0.820
	LTE Band 25	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI1	26590	1905	20.85	21.70	1.216	-	-	-0.03	0.572	0.696
	LTE Band 25	20M	QPSK	100	0	-	Left Side	10mm	Ant 2	DSI1	26340	1880	20.77	21.70	1.239	-	-	0.07	0.585	0.725
	LTE Band 25	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	DSI1	26340	1880	21.06	21.70	1.159	-	-	0	0.035	0.041
	LTE Band 25	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	DSI1	26340	1880	21.01	21.70	1.172	-	-	0.01	0.028	0.033
	LTE Band 25	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	DSI1	26340	1880	21.06	21.70	1.159	-	-	-0.01	0.153	0.177
	LTE Band 25	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	DSI1	26340	1880	21.01	21.70	1.172	-	-	-0.06	0.113	0.132
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI1	26340	1880	21.06	21.70	1.159	-	-	-0.04	0.059	0.068
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI1	26340	1880	21.01	21.70	1.172	-	-	-0.09	0.038	0.045
	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI4	26140	1860	19.34	20.20	1.219	-	-	-0.03	0.630	0.768
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI1	376500	1882.5	20.63	21.70	1.279	-	-	0.18	0.476	0.609
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI1	376500	1882.5	20.61	21.70	1.285	-	-	-0.04	0.455	0.585
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI1	376500	1882.5	20.63	21.70	1.279	-	-	-0.13	0.619	0.792
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI1	376500	1882.5	20.61	21.70	1.285	-	-	-0.13	0.567	0.729
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI1	376500	1882.5	20.63	21.70	1.279	-	-	0.05	0.848	1.085
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI1	376500	1882.5	20.61	21.70	1.285	-	-	-0.03	0.808	1.039
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI1	376500	1882.5	20.57	21.70	1.297	-	-	-0.03	0.621	0.806
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI1	376500	1882.5	20.63	21.70	1.279	-	-	0.08	0.201	0.257
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 2	DSI1	376500	1882.5	20.61	21.70	1.285	-	-	-0.07	0.151	0.194
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI1	376500	1882.5	20.63	21.70	1.279	-	-	0.05	0.048	0.061
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI1	376500	1882.5	20.61	21.70	1.285	-	-	-0.11	0.047	0.060
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI4	376500	1882.5	19.13	20.20	1.279	-	-	-0.08	0.600	0.768



FCC SAR Test Report

Report No. : FA460505

	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 5	DSI1	376500	1882.5	22.38	23.70	1.355	-	-	-0.15	0.432	0.585
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 5	DSI1	376500	1882.5	22.35	23.70	1.365	-	-	0.19	0.416	0.568
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	DSI1	376500	1882.5	22.38	23.70	1.355	-	-	-0.18	0.479	0.649
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 5	DSI1	376500	1882.5	22.35	23.70	1.365	-	-	0.03	0.472	0.644
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 5	DSI1	376500	1882.5	22.38	23.70	1.355	-	-	-0.15	0.208	0.282
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 5	DSI1	376500	1882.5	22.35	23.70	1.365	-	-	0.11	0.221	0.302
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 5	DSI1	376500	1882.5	22.38	23.70	1.355	-	-	-0.08	0.188	0.255
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 5	DSI1	376500	1882.5	22.35	23.70	1.365	-	-	-0.17	0.144	0.196
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 5	DSI1	376500	1882.5	22.38	23.70	1.355	-	-	-0.08	0.742	1.006
51	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 5	DSI1	376500	1882.5	22.35	23.70	1.365	-	-	0.02	0.801	1.093
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	10mm	Ant 5	DSI1	376500	1882.5	22.29	23.70	1.384	-	-	-0.04	0.642	0.888
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 5	DSI4	376500	1882.5	20.85	22.20	1.365	-	-	0.01	0.567	0.774
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 3	DSI1	27710	2310	19.51	20.40	1.227	-	-	-0.06	0.335	0.411
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 3	DSI1	27710	2310	19.46	20.40	1.242	-	-	0.07	0.267	0.332
	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 3	DSI1	27710	2310	19.51	20.40	1.227	-	-	-0.08	0.354	0.435
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 3	DSI1	27710	2310	19.46	20.40	1.242	-	-	-0.15	0.325	0.404
52	LTE Band 30	10M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	27710	2310	19.51	20.40	1.227	-	-	0.09	0.857	1.052
	LTE Band 30	10M	QPSK	25	0	-	Left Side	10mm	Ant 3	DSI1	27710	2310	19.46	20.40	1.242	-	-	0.04	0.704	0.874
	LTE Band 30	10M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI1	27710	2310	19.17	20.40	1.327	-	-	-0.01	0.762	1.011
	LTE Band 30	10M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI1	27710	2310	19.51	20.40	1.227	-	-	-0.08	0.033	0.041
	LTE Band 30	10M	QPSK	25	0	-	Right Side	10mm	Ant 3	DSI1	27710	2310	19.46	20.40	1.242	-	-	0.05	0.026	0.032
	LTE Band 30	10M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI1	27710	2310	19.51	20.40	1.227	-	-	0.06	0.243	0.298
	LTE Band 30	10M	QPSK	25	0	-	Top Side	10mm	Ant 3	DSI1	27710	2310	19.46	20.40	1.242	-	-	-0.09	0.193	0.240
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 3	DSI1	27710	2310	19.51	20.40	1.227	-	-	-0.08	0.067	0.082
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 3	DSI1	27710	2310	19.46	20.40	1.242	-	-	0.13	0.056	0.070
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	27710	2310	19.51	20.40	1.227	-	-	0.02	0.816	1.002
	LTE Band 30	10M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI4	27710	2310	18.01	18.90	1.227	-	-	0.02	0.607	0.745
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 3	DSI1	462000	2310	19.54	20.60	1.276	-	-	0.08	0.744	0.950
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 3	DSI1	462000	2310	19.51	20.60	1.285	-	-	0.01	0.688	0.884
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Front	10mm	Ant 3	DSI1	462000	2310	19.44	20.60	1.306	-	-	0.03	0.665	0.869
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 3	DSI1	462000	2310	19.54	20.60	1.276	-	-	-0.08	0.543	0.693
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 3	DSI1	462000	2310	19.51	20.60	1.285	-	-	-0.08	0.518	0.666
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI1	462000	2310	19.54	20.60	1.276	-	-	-0.18	0.665	0.849
53	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI1	462000	2310	19.51	20.60	1.285	-	-	0.03	0.805	1.035
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI1	462000	2310	19.44	20.60	1.306	-	-	0.1	0.726	0.948
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 3	DSI1	462000	2310	19.54	20.60	1.276	-	-	0.12	0.092	0.117
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 3	DSI1	462000	2310	19.51	20.60	1.285	-	-	0.08	0.132	0.170
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 3	DSI1	462000	2310	19.54	20.60	1.276	-	-	-0.17	0.046	0.059
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	10mm	Ant 3	DSI1	462000	2310	19.51	20.60	1.285	-	-	-0.03	0.048	0.062
	FR1 n30 Other PA	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI1	462000	2310	19.51	20.60	1.285	-	-	0.03	0.723	0.929
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI4	462000	2310	18.51	19.60	1.285	-	-	0.01	0.620	0.797
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI1	21100	2535	18.35	19.40	1.274	-	-	-0.17	0.394	0.502
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI1	21100	2535	18.28	19.40	1.294	-	-	0.05	0.321	0.415
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI1	21100	2535	18.35	19.40	1.274	-	-	0.18	0.480	0.611
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI1	21100	2535	18.28	19.40	1.294	-	-	-0.01	0.386	0.500
54	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	21100	2535	18.35	19.40	1.274	-	-	0.06	0.845	1.076
	LTE Band 7C	20M	QPSK	1	99	-	Left Side	10mm	Ant 3	DSI1	21100+21298	2535+2554.8	18.24	19.40	1.306	-	-	0.09	0.749	0.978
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	20850	2510	18.25	19.40	1.303	-	-	0.06	0.768	1.001
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	21350	2560	18.27	19.40	1.297	-	-	0.15	0.811	1.052
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI1	21100	2535	18.28	19.40	1.294	-	-	-0.06	0.738	0.955
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI1	20850	2510	18.16	19.40	1.330	-	-	-0.15	0.695	0.925
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI1	21350	2560	18.19	19.40	1.321	-	-	-0.03	0.733	0.969
	LTE Band 7	20M	QPSK	100	0	-	Left Side	10mm	Ant 3	DSI1	21100	2535	18.14	19.40	1.337	-	-	0.1	0.686	0.917
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI1	21100	2535	18.35	19.40	1.274	-	-	-0.05	0.026	0.033



FCC SAR Test Report

Report No. : FA460505

	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 3	DSI1	21100	2535	18.28	19.40	1.294	-	-	-0.03	0.024	0.031
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI1	21100	2535	18.35	19.40	1.274	-	-	0.09	0.329	0.419
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI1	21100	2535	18.28	19.40	1.294	-	-	0	0.285	0.369
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 3	DSI1	21100	2535	18.35	19.40	1.274	-	-	0.18	0.048	0.061
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 3	DSI1	21100	2535	18.28	19.40	1.294	-	-	-0.08	0.046	0.060
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	21100	2535	18.35	19.40	1.274	-	-	0.06	0.811	1.033
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI4	21100	2535	16.85	17.90	1.274	-	-	-0.17	0.598	0.762
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI1	40620	2593	20.48	21.30	1.208	62.9	1.006	-0.07	0.351	0.426
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI1	40620	2593	20.37	21.30	1.239	62.9	1.006	-0.03	0.285	0.355
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI1	40620	2593	20.48	21.30	1.208	62.9	1.006	0	0.461	0.560
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI1	40620	2593	20.37	21.30	1.239	62.9	1.006	0.1	0.379	0.472
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	40620	2593	20.48	21.30	1.208	62.9	1.006	0.07	0.848	1.030
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	39750	2506	20.20	21.30	1.288	62.9	1.006	-0.12	0.750	0.972
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	40185	2549.5	20.34	21.30	1.247	62.9	1.006	0.1	0.802	1.006
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	41055	2636.5	20.34	21.30	1.247	62.9	1.006	-0.16	0.835	1.048
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	41490	2680	20.35	21.30	1.245	62.9	1.006	0.07	0.855	1.070
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	41490+ 41292	2680+ 2660.2	20.21	21.30	1.285	62.9	1.006	0.09	0.750	0.970
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI1	40620	2593	20.37	21.30	1.239	62.9	1.006	-0.1	0.697	0.869
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI1	39750	2506	20.36	21.30	1.242	62.9	1.006	0.12	0.637	0.796
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI1	40185	2549.5	20.03	21.30	1.340	62.9	1.006	-0.11	0.658	0.887
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI1	41055	2636.5	20.15	21.30	1.303	62.9	1.006	-0.12	0.697	0.914
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI1	41490	2680	20.06	21.30	1.330	62.9	1.006	-0.1	0.677	0.906
	LTE Band 41	20M	QPSK	100	0	-	Left Side	10mm	Ant 3	DSI1	40620	2593	20.35	21.30	1.245	62.9	1.006	0.16	0.684	0.856
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 3	DSI1	40620	2593	20.48	21.30	1.208	62.9	1.006	-0.09	0.038	0.046
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 3	DSI1	40620	2593	20.37	21.30	1.239	62.9	1.006	-0.09	0.030	0.037
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI1	40620	2593	20.48	21.30	1.208	62.9	1.006	0.08	0.197	0.239
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI1	40620	2593	20.37	21.30	1.239	62.9	1.006	0.06	0.166	0.207
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 3	DSI1	40620	2593	20.48	21.30	1.208	62.9	1.006	0.1	0.045	0.055
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 3	DSI1	40620	2593	20.37	21.30	1.239	62.9	1.006	0.1	0.033	0.041
55	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	41490	2680	21.99	22.90	1.233	42.9	1.009	0.06	0.874	1.087
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI1	41490+ 41292	2680+ 2660.2	21.61	22.90	1.346	42.9	1.009	0.02	0.722	0.980
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI4	41490	2680	18.85	19.80	1.245	62.9	1.006	0.07	0.605	0.757
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI4	41490	2680	20.49	21.40	1.233	42.9	1.009	0.06	0.619	0.770
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 3	DSI1	507000	2535	17.66	18.70	1.271	-	-	-0.06	0.393	0.499
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 3	DSI1	507000	2535	17.63	18.70	1.279	-	-	0.07	0.377	0.482
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 3	DSI1	507000	2535	17.66	18.70	1.271	-	-	-0.18	0.480	0.610
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 3	DSI1	507000	2535	17.63	18.70	1.279	-	-	0.11	0.464	0.594
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI1	507000	2535	17.66	18.70	1.271	-	-	-0.11	0.823	1.046
56	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI1	507000	2535	17.63	18.70	1.279	-	-	0.02	0.842	1.077
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI1	507000	2535	17.59	18.70	1.291	-	-	0.04	0.676	0.873
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 3	DSI1	507000	2535	17.66	18.70	1.271	-	-	0.16	0.330	0.419
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 3	DSI1	507000	2535	17.63	18.70	1.279	-	-	0.17	0.297	0.380
	FR1 n7 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI1	507000	2535	17.63	18.70	1.279	-	-	0.06	0.802	1.026
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI4	507000	2535	16.13	17.20	1.279	-	-	0.09	0.596	0.763
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI1	518598	2592.99	17.66	18.90	1.330	-	-	-0.18	0.351	0.467
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI1	518598	2592.99	17.61	18.90	1.346	-	-	-0.13	0.274	0.369
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI1	518598	2592.99	17.66	18.90	1.330	-	-	0.02	0.452	0.601
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI1	518598	2592.99	17.61	18.90	1.346	-	-	0.02	0.392	0.528
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	518598	2592.99	17.66	18.90	1.330	-	-	0.09	0.822	1.094
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	518598	2592.99	17.61	18.90	1.346	-	-	-0.17	0.696	0.937
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	518598	2592.99	17.40	18.90	1.413	-	-	-0.04	0.676	0.955
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI1	518598	2592.99	17.66	18.90	1.330	-	-	-0.17	0.264	0.351
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI1	518598	2592.99	17.61	18.90	1.346	-	-	-0.07	0.173	0.233
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	DSI1	518598	2592.99	17.66	18.90	1.330	-	-	0.01	0.025	0.033
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	DSI1	518598	2592.99	17.61	18.90	1.346	-	-	0.04	0.027	0.036



FCC SAR Test Report

Report No. : FA460505

	FR1 n41 PC2 Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	518598	2592.99	17.66	18.90	1.330	-	-	0.02	0.755	1.004
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI4	518598	2592.99	16.16	17.40	1.330	-	-	0.09	0.582	0.774
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 0	DSI1	518598	2592.99	21.21	22.00	1.199	-	-	-0.15	0.678	0.813
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 0	DSI1	518598	2592.99	21.12	22.00	1.225	-	-	0.02	0.616	0.754
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	10mm	Ant 0	DSI1	518598	2592.99	20.90	22.00	1.288	-	-	0.12	0.481	0.620
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI1	518598	2592.99	21.21	22.00	1.199	-	-	-0.16	0.893	1.071
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI1	509202	2546.01	21.13	22.00	1.222	-	-	0.09	0.833	1.018
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI1	528000	2640	21.12	22.00	1.225	-	-	0.02	0.815	0.998
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI1	518598	2592.99	21.12	22.00	1.225	-	-	-0.16	0.846	1.036
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI1	518598	2592.99	20.90	22.00	1.288	-	-	-0.02	0.732	0.943
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 0	DSI1	518598	2592.99	21.21	22.00	1.199	-	-	0.08	0.152	0.182
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 0	DSI1	518598	2592.99	21.12	22.00	1.225	-	-	0	0.319	0.391
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 0	DSI1	518598	2592.99	21.21	22.00	1.199	-	-	-0.04	0.000	0.000
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 0	DSI1	518598	2592.99	21.12	22.00	1.225	-	-	0.17	0.031	0.038
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 0	DSI1	518598	2592.99	21.21	22.00	1.199	-	-	0.18	0.150	0.180
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 0	DSI1	518598	2592.99	21.12	22.00	1.225	-	-	0.03	0.160	0.196
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	DSI4	518598	2592.99	19.71	20.50	1.199	-	-	-0.16	0.632	0.758
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI1	518598	2592.99	20.33	21.40	1.279	-	-	-0.02	0.434	0.555
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI1	518598	2592.99	20.24	21.40	1.306	-	-	0.15	0.347	0.453
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI1	518598	2592.99	20.33	21.40	1.279	-	-	0.06	0.656	0.839
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI1	518598	2592.99	20.24	21.40	1.306	-	-	0.15	0.566	0.739
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI1	518598	2592.99	20.06	21.40	1.361	-	-	0.03	0.526	0.716
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 5	DSI1	518598	2592.99	20.33	21.40	1.279	-	-	-0.05	0.106	0.136
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 5	DSI1	518598	2592.99	20.24	21.40	1.306	-	-	-0.18	0.094	0.123
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI1	518598	2592.99	20.33	21.40	1.279	-	-	-0.08	0.136	0.174
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI1	518598	2592.99	20.24	21.40	1.306	-	-	0.18	0.124	0.162
57	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 5	DSI1	518598	2592.99	20.33	21.40	1.279	-	-	0.05	0.856	1.095
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 5	DSI1	518598	2592.99	20.24	21.40	1.306	-	-	0.1	0.811	1.059
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	10mm	Ant 5	DSI1	518598	2592.99	20.06	21.40	1.361	-	-	0.03	0.621	0.845
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 5	DSI4	518598	2592.99	18.83	19.90	1.279	-	-	-0.01	0.606	0.775
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI1	518598	2592.99	18.75	20.10	1.365	-	-	0.12	0.341	0.465
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI1	518598	2592.99	18.61	20.10	1.409	-	-	-0.07	0.254	0.358
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI1	518598	2592.99	18.75	20.10	1.365	-	-	-0.04	0.508	0.693
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI1	518598	2592.99	18.61	20.10	1.409	-	-	0.13	0.405	0.571
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	518598	2592.99	18.75	20.10	1.365	-	-	0.06	0.798	1.089
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	518598	2592.99	18.61	20.10	1.409	-	-	0.09	0.656	0.924
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	518598	2592.99	18.50	20.10	1.445	-	-	0.06	0.537	0.776
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 6	DSI1	518598	2592.99	18.75	20.10	1.365	-	-	-0.04	0.155	0.212
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 6	DSI1	518598	2592.99	18.61	20.10	1.409	-	-	0.17	0.177	0.249
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI4	518598	2592.99	17.25	18.30	1.274	-	-	0.01	0.565	0.720
3500MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI1	55830	3609	21.90	23.00	1.288	62.9	1.006	0.13	0.582	0.754
58	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI1	55340	3560	21.79	23.00	1.321	62.9	1.006	0.06	0.691	0.918
	LTE Band 48C	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI1	55340+ 55538	3560+ 3579.8	21.66	23.00	1.361	62.9	1.006	0.09	0.641	0.878
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI1	56150	3641	21.86	23.00	1.300	62.9	1.006	-0.03	0.548	0.717
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI1	56640	3690	21.85	23.00	1.303	62.9	1.006	0.12	0.520	0.682
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI1	55830	3609	21.13	22.00	1.222	62.9	1.006	0.19	0.523	0.643
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI1	55340	3560	20.97	22.00	1.268	62.9	1.006	0.14	0.499	0.636
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI1	56150	3641	20.86	22.00	1.300	62.9	1.006	0.11	0.480	0.628
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI1	56640	3690	20.99	22.00	1.262	62.9	1.006	-0.05	0.479	0.608
	LTE Band 48	20M	QPSK	100	0	-	Front	10mm	Ant 4	DSI1	55830	3609	21.07	22.00	1.239	62.9	1.006	-0.09	0.445	0.555
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI1	55830	3609	21.90	23.00	1.288	62.9	1.006	-0.12	0.571	0.740
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI1	55340	3560	21.79	23.00	1.321	62.9	1.006	0.07	0.609	0.809
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI1	56150	3641	21.86	23.00	1.300	62.9	1.006	-0.18	0.466	0.610
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI1	56640	3690	21.85	23.00	1.303	62.9	1.006	-0.06	0.461	0.604
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI1	55830	3609	21.13	22.00	1.222	62.9	1.006	0.07	0.466	0.573



FCC SAR Test Report

Report No. : FA460505

	LTE Band 48	20M	QPSK	100	0	-	Back	10mm	Ant 4	DSI1	55830	3609	21.07	22.00	1.239	62.9	1.006	-0.15	0.430	0.536
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	DSI1	55830	3609	21.90	23.00	1.288	62.9	1.006	-0.15	0.085	0.110
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	DSI1	55830	3609	21.13	22.00	1.222	62.9	1.006	-0.08	0.066	0.081
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI1	55830	3609	21.90	23.00	1.288	62.9	1.006	-0.04	0.289	0.375
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI1	55830	3609	21.13	22.00	1.222	62.9	1.006	0.02	0.234	0.288
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI1	55830	3609	21.90	23.00	1.288	62.9	1.006	-0.07	0.079	0.102
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI1	55830	3609	21.13	22.00	1.222	62.9	1.006	-0.08	0.066	0.081
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI4	55340	3560	21.38	22.50	1.294	62.9	1.006	0.06	0.612	0.797
59	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	641666	3624.99	21.22	22.30	1.282	-	-	0.03	0.839	1.076
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	638000	3570	21.14	22.30	1.306	-	-	0.06	0.802	1.048
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	645332	3679.98	21.11	22.30	1.315	-	-	0.01	0.785	1.032
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	641666	3624.99	21.09	22.30	1.321	-	-	0.13	0.775	1.024
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	638000	3570	21.07	22.30	1.327	-	-	0.03	0.623	0.827
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	645332	3679.98	21.07	22.30	1.327	-	-	-0.02	0.618	0.820
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	641666	3624.99	20.91	22.30	1.377	-	-	-0.02	0.651	0.897
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	641666	3624.99	21.22	22.30	1.282	-	-	0	0.760	0.975
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	638000	3570	21.14	22.30	1.306	-	-	-0.05	0.635	0.829
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	645332	3679.98	21.11	22.30	1.315	-	-	-0.13	0.618	0.813
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	641666	3624.99	21.09	22.30	1.321	-	-	0.1	0.636	0.840
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	638000	3570	21.07	22.30	1.327	-	-	0.08	0.622	0.826
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	645332	3679.98	21.07	22.30	1.327	-	-	0.16	0.609	0.808
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	641666	3624.99	20.91	22.30	1.377	-	-	0.13	0.654	0.901
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 4	DSI1	641666	3624.99	21.22	22.30	1.282	-	-	-0.05	0.094	0.121
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 4	DSI1	641666	3624.99	21.09	22.30	1.321	-	-	0.03	0.077	0.102
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI1	641666	3624.99	21.22	22.30	1.282	-	-	-0.06	0.328	0.421
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI1	641666	3624.99	21.09	22.30	1.321	-	-	0.01	0.309	0.408
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI1	641666	3624.99	21.22	22.30	1.282	-	-	-0.03	0.107	0.137
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI1	641666	3624.99	21.09	22.30	1.321	-	-	0.03	0.105	0.139
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 4	DSI1	641666	3624.99	21.22	22.30	1.282	-	-	-0.17	0.107	0.137
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI4	641666	3624.99	19.72	20.80	1.282	-	-	0.08	0.594	0.762
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	656000	3840	22.26	23.20	1.242	-	-	0.12	0.435	0.540
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	656000	3840	22.19	23.20	1.262	-	-	-0.08	0.562	0.709
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	656000	3840	22.26	23.20	1.242	-	-	-0.15	0.448	0.556
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	656000	3840	22.19	23.20	1.262	-	-	-0.19	0.454	0.573
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 4	DSI1	656000	3840	22.26	23.20	1.242	-	-	-0.05	0.047	0.058
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 4	DSI1	656000	3840	22.19	23.20	1.262	-	-	-0.12	0.051	0.064
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI1	656000	3840	22.26	23.20	1.242	-	-	0.18	0.240	0.298
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI1	656000	3840	22.19	23.20	1.262	-	-	0.14	0.248	0.313
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI1	656000	3840	22.26	23.20	1.242	-	-	0.09	0.067	0.083
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI1	656000	3840	22.19	23.20	1.262	-	-	-0.13	0.070	0.088
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 4	DSI1	656000	3840	22.26	23.20	1.242	-	-	-0.09	0.018	0.022
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 4	DSI1	656000	3840	22.19	23.20	1.262	-	-	-0.18	0.019	0.024
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	633334	3500.01	21.81	23.20	1.377	-	-	-0.12	0.663	0.913
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	633334	3500.01	21.77	23.20	1.390	-	-	0.04	0.685	0.952
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	633334	3500.01	21.50	23.20	1.479	-	-	-0.07	0.655	0.969
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	633334	3500.01	21.81	23.20	1.377	-	-	-0.03	0.636	0.876
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	633334	3500.01	21.77	23.20	1.390	-	-	-0.13	0.614	0.853
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	633334	3500.01	21.50	23.20	1.479	-	-	0.05	0.524	0.775
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 4	DSI1	633334	3500.01	21.81	23.20	1.377	-	-	-0.15	0.107	0.147
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 4	DSI1	633334	3500.01	21.77	23.20	1.390	-	-	-0.11	0.081	0.113
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI1	633334	3500.01	21.81	23.20	1.377	-	-	0.07	0.305	0.420
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI1	633334	3500.01	21.77	23.20	1.390	-	-	0	0.335	0.466



FCC SAR Test Report

Report No. : FA460505

	Part 27Q PC2																			
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI1	633334	3500.01	21.50	23.20	1.479	-	-	-0.12	0.232	0.343
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI1	633334	3500.01	21.81	23.20	1.377	-	-	0.19	0.161	0.222
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI1	633334	3500.01	21.77	23.20	1.390	-	-	-0.01	0.151	0.210
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI4	633334	3500.01	20.27	21.70	1.390	-	-	0.01	0.485	0.674
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	641666	3624.99	22.02	23.20	1.312	-	-	0.18	0.728	0.955
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	641666	3624.99	21.95	23.20	1.334	-	-	-0.16	0.620	0.827
	FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI1	641666	3624.99	21.74	23.20	1.400	-	-	0.15	0.621	0.869
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	641666	3624.99	22.02	23.20	1.312	-	-	-0.15	0.646	0.848
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	641666	3624.99	21.95	23.20	1.334	-	-	0.06	0.606	0.808
	FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI1	641666	3624.99	21.74	23.20	1.400	-	-	0.15	0.606	0.848
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 4	DSI1	641666	3624.99	22.02	23.20	1.312	-	-	-0.1	0.087	0.114
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 4	DSI1	641666	3624.99	21.95	23.20	1.334	-	-	0.17	0.076	0.101
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI1	641666	3624.99	22.02	23.20	1.312	-	-	0.13	0.348	0.457
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI1	641666	3624.99	21.95	23.20	1.334	-	-	-0.02	0.298	0.397
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI1	641666	3624.99	22.02	23.20	1.312	-	-	0	0.129	0.169
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI1	641666	3624.99	21.95	23.20	1.334	-	-	0.1	0.106	0.141
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI4	641666	3624.99	20.52	21.70	1.312	-	-	0.02	0.515	0.676
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI1	656000	3840	22.92	23.60	1.169	-	-	-0.09	0.584	0.683
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI1	656000	3840	22.86	23.60	1.186	-	-	-0.03	0.529	0.627
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI1	656000	3840	22.92	23.60	1.169	-	-	0.17	0.578	0.676
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI1	656000	3840	22.86	23.60	1.186	-	-	0.11	0.436	0.517
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI1	656000	3840	22.92	23.60	1.169	-	-	-0.04	0.338	0.395
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI1	656000	3840	22.86	23.60	1.186	-	-	-0.18	0.273	0.324
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI1	656000	3840	22.92	23.60	1.169	-	-	-0.13	0.077	0.090
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI1	656000	3840	22.86	23.60	1.186	-	-	0	0.046	0.055
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI1	656000	3840	22.92	23.60	1.169	-	-	-0.04	0.042	0.049
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI1	656000	3840	22.86	23.60	1.186	-	-	-0.15	0.030	0.036
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI1	633334	3500.01	22.17	23.60	1.390	-	-	0.14	0.590	0.820
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI1	633334	3500.01	22.12	23.60	1.406	-	-	-0.07	0.632	0.889
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI1	633334	3500.01	21.92	23.60	1.472	-	-	0.11	0.538	0.792
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI1	633334	3500.01	22.17	23.60	1.390	-	-	-0.17	0.610	0.848
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI1	633334	3500.01	22.12	23.60	1.406	-	-	0.01	0.640	0.900
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI1	633334	3500.01	21.92	23.60	1.472	-	-	0.1	0.512	0.754
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI1	633334	3500.01	22.17	23.60	1.390	-	-	-0.05	0.652	0.906
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI1	633334	3500.01	22.12	23.60	1.406	-	-	0.11	0.588	0.827
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI1	633334	3500.01	21.92	23.60	1.472	-	-	-0.07	0.498	0.733
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI1	633334	3500.01	22.17	23.60	1.390	-	-	0.18	0.051	0.071
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI1	633334	3500.01	22.12	23.60	1.406	-	-	0.12	0.056	0.079
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI1	633334	3500.01	22.17	23.60	1.390	-	-	0.07	0.052	0.072
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI1	633334	3500.01	22.12	23.60	1.406	-	-	0.15	0.043	0.060
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI4	633334	3500.01	20.67	22.10	1.390	-	-	-0.05	0.462	0.642
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI1	641666	3624.99	21.82	23.00	1.312	-	-	0.16	0.466	0.611
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI1	641666	3624.99	21.69	23.00	1.352	-	-	0.06	0.434	0.587
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI1	641666	3624.99	21.82	23.00	1.312	-	-	-0.03	0.514	0.674
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI1	641666	3624.99	21.69	23.00	1.352	-	-	-0.02	0.443	0.599
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI1	641666	3624.99	21.82	23.00	1.312	-	-	-0.17	0.354	0.465



FCC SAR Test Report

Report No. : FA460505

FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI1	641666	3624.99	21.69	23.00	1.352	-	-	0.1	0.334	0.452
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI1	641666	3624.99	21.82	23.00	1.312	-	-	0.08	0.038	0.050
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	DSI1	641666	3624.99	21.69	23.00	1.352	-	-	0	0.040	0.054
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI1	641666	3624.99	21.82	23.00	1.312	-	-	-0.13	0.030	0.039
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	DSI1	641666	3624.99	21.69	23.00	1.352	-	-	-0.1	0.036	0.049
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI1	656000	3840	18.31	18.90	1.146	-	-	0	0.120	0.137
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI1	656000	3840	18.23	18.90	1.167	-	-	0.07	0.073	0.085
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI1	656000	3840	18.31	18.90	1.146	-	-	0.15	0.337	0.386
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI1	656000	3840	18.23	18.90	1.167	-	-	-0.05	0.300	0.350
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	656000	3840	18.31	18.90	1.146	-	-	0.06	0.342	0.392
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	656000	3840	18.23	18.90	1.167	-	-	-0.08	0.214	0.250
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 3	DSI1	656000	3840	18.31	18.90	1.146	-	-	0.01	0.036	0.041
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 3	DSI1	656000	3840	18.23	18.90	1.167	-	-	-0.11	0.029	0.034
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI1	656000	3840	18.31	18.90	1.146	-	-	0.03	0.046	0.053
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI1	656000	3840	18.23	18.90	1.167	-	-	-0.05	0.045	0.053
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI1	633334	3500.01	18.01	18.90	1.227	-	-	0.12	0.120	0.147
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI1	633334	3500.01	17.91	18.90	1.256	-	-	0.07	0.101	0.127
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI1	633334	3500.01	18.01	18.90	1.227	-	-	0.19	0.202	0.248
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI1	633334	3500.01	17.91	18.90	1.256	-	-	-0.06	0.177	0.222
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	633334	3500.01	18.01	18.90	1.227	-	-	0.06	0.342	0.420
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	633334	3500.01	17.91	18.90	1.256	-	-	-0.03	0.296	0.372
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 3	DSI1	633334	3500.01	18.01	18.90	1.227	-	-	-0.12	0.012	0.015
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 3	DSI1	633334	3500.01	17.91	18.90	1.256	-	-	-0.03	0.012	0.015
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI1	633334	3500.01	18.01	18.90	1.227	-	-	0.02	0.049	0.060
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI1	633334	3500.01	17.91	18.90	1.256	-	-	0.12	0.039	0.049
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI1	641666	3624.99	18.15	18.90	1.189	-	-	0.17	0.266	0.316
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI1	641666	3624.99	18.05	18.90	1.216	-	-	-0.15	0.191	0.232
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI1	641666	3624.99	18.15	18.90	1.189	-	-	0.05	0.465	0.553
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI1	641666	3624.99	18.05	18.90	1.216	-	-	-0.06	0.384	0.467
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	641666	3624.99	18.15	18.90	1.189	-	-	0.08	0.675	0.802
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	641666	3624.99	18.05	18.90	1.216	-	-	-0.01	0.603	0.733
FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI1	641666	3624.99	17.78	18.90	1.294	-	-	0.09	0.601	0.778
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 3	DSI1	641666	3624.99	18.15	18.90	1.189	-	-	0.19	0.026	0.031
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 3	DSI1	641666	3624.99	18.05	18.90	1.216	-	-	-0.14	0.029	0.035
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI1	641666	3624.99	18.15	18.90	1.189	-	-	-0.18	0.096	0.114
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI1	641666	3624.99	18.05	18.90	1.216	-	-	-0.06	0.069	0.084
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI4	641666	3624.99	16.65	17.40	1.189	-	-	0.08	0.478	0.568
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI1	656000	3840	20.56	21.30	1.186	-	-	-0.09	0.286	0.339
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI1	656000	3840	20.51	21.30	1.199	-	-	0.05	0.265	0.318
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI1	656000	3840	20.56	21.30	1.186	-	-	-0.13	0.433	0.513
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI1	656000	3840	20.51	21.30	1.199	-	-	0.17	0.405	0.486
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	656000	3840	20.56	21.30	1.186	-	-	0.05	0.753	0.893
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	656000	3840	20.51	21.30	1.199	-	-	0	0.737	0.884
FR1 n77 Part 270 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	656000	3840	20.25	21.30	1.274	-	-	-0.04	0.548	0.698
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 6	DSI1	656000	3840	20.56	21.30	1.186	-	-	-0.15	0.185	0.219
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 6	DSI1	656000	3840	20.51	21.30	1.199	-	-	0.11	0.169	0.203
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI4	656000	3840	19.06	19.80	1.186	-	-	0.05	0.533	0.632



FCC SAR Test Report

Report No. : FA460505

	Part 270 PC2																			
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI1	633334	3500.01	20.58	21.30	1.180	-	-	0	0.335	0.395
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI1	633334	3500.01	20.51	21.30	1.199	-	-	0.01	0.351	0.421
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI1	633334	3500.01	20.58	21.30	1.180	-	-	-0.06	0.431	0.509
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI1	633334	3500.01	20.51	21.30	1.199	-	-	-0.04	0.489	0.587
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	633334	3500.01	20.58	21.30	1.180	-	-	-0.17	0.793	0.936
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	633334	3500.01	20.51	21.30	1.199	-	-	0.02	0.855	1.026
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	633334	3500.01	20.30	21.30	1.259	-	-	-0.1	0.740	0.932
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 6	DSI1	633334	3500.01	20.58	21.30	1.180	-	-	0.18	0.215	0.254
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 6	DSI1	633334	3500.01	20.51	21.30	1.199	-	-	-0.17	0.233	0.279
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI4	633334	3500.01	19.01	19.80	1.199	-	-	-0.05	0.605	0.726
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI1	641666	3624.99	20.03	21.30	1.340	-	-	0.05	0.326	0.437
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI1	641666	3624.99	19.90	21.30	1.380	-	-	-0.03	0.337	0.465
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI1	641666	3624.99	20.03	21.30	1.340	-	-	0.02	0.457	0.612
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI1	641666	3624.99	19.90	21.30	1.380	-	-	0.07	0.447	0.617
60	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	641666	3624.99	20.03	21.30	1.340	-	-	0.13	0.810	1.085
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	641666	3624.99	19.90	21.30	1.380	-	-	-0.18	0.772	1.066
	FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI1	641666	3624.99	19.70	21.30	1.445	-	-	0.13	0.720	1.041
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 6	DSI1	641666	3624.99	20.03	21.30	1.340	-	-	0.02	0.212	0.284
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 6	DSI1	641666	3624.99	19.90	21.30	1.380	-	-	0.16	0.205	0.283
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 6	DSI4	641666	3624.99	18.53	19.80	1.340	-	-	0.05	0.573	0.768



FCC SAR Test Report

Report No. : FA460505

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 7+9(9)	Standalone Non DBS	11	2462	18.54	20.00	1.400	98.35	1.017	0.11	0.298	0.424
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 7+9(9)	Standalone Non DBS	11	2462	18.54	20.00	1.400	98.35	1.017	-0.05	0.456	0.649
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 7+9(9)	Standalone Non DBS	11	2462	18.54	20.00	1.400	98.35	1.017	-0.17	0.103	0.147
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 7+9(9)	Standalone Non DBS	11	2462	18.54	20.00	1.400	98.35	1.017	0.17	0.515	0.733
61	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7+9(9)	Standalone Non DBS	11	2462	18.54	20.00	1.400	98.35	1.017	0.04	0.757	1.077
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7+9(9)	Standalone Non DBS	1	2412	18.30	20.00	1.479	98.35	1.017	0.1	0.706	1.062
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7+9(7)	Standalone Non DBS	6	2437	17.70	19.00	1.349	98.35	1.017	0.01	0.591	0.811
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7+9(7)	Standalone DBS only	11	2462	15.64	17.00	1.368	98.35	1.017	0.08	0.388	0.540
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7+9(7)	Simultaneous Non DBS	11	2462	14.18	15.50	1.355	98.35	1.017	0.01	0.268	0.369
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7+9(9)	Simultaneous DBS	11	2462	11.92	13.50	1.439	98.35	1.017	0.03	0.134	0.196
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 9	Full Power	11	2462	19.54	21.00	1.400	98.35	1.017	0.04	0.219	0.312
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 9	Full Power	11	2462	19.54	21.00	1.400	98.35	1.017	0.02	0.359	0.511
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 9	Full Power	11	2462	19.54	21.00	1.400	98.35	1.017	-0.08	0.079	0.112
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 9	Full Power	11	2462	19.54	21.00	1.400	98.35	1.017	0.05	0.477	0.679
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	10mm	Ant 9	Full Power	11	2462	19.54	21.00	1.400	98.35	1.017	0.06	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 9	Full Power	1	2412	18.30	20.00	1.479	98.35	1.017	-0.09	0.412	0.620
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 9	Full Power	6	2437	17.71	19.50	1.510	98.35	1.017	-0.08	0.410	0.630
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 9	Standalone DBS only	11	2462	18.54	20.00	1.400	98.35	1.017	-0.04	0.411	0.585
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 9	Simultaneous Non DBS	11	2462	17.13	18.50	1.371	98.35	1.017	-0.09	0.277	0.386
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 9	Simultaneous DBS	11	2462	14.29	15.50	1.321	98.35	1.017	-0.17	0.141	0.189
	Bluetooth	1Mbps	Front	10mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	0.13	0.001	0.002
	Bluetooth	1Mbps	Back	10mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	0.09	0.012	0.020
	Bluetooth	1Mbps	Left Side	10mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	0.12	0.001	0.002
	Bluetooth	1Mbps	Right Side	10mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	0.03	0.001	0.002
62	Bluetooth	1Mbps	Top Side	10mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	0.01	0.025	0.041
	Bluetooth	1Mbps	Top Side	10mm	Ant 7	Full Power	0	2402	9.12	11.00	1.543	76.78	1.085	0.09	0.020	0.033
	Bluetooth	1Mbps	Top Side	10mm	Ant 7	Full Power	78	2480	9.04	11.00	1.571	76.78	1.085	0.02	0.019	0.032
5000MHz																
	WLAN5.2GHz	802.11a 6Mbps	Front	10mm	Ant 8+10(8)	Standalone Non DBS	40	5200	18.36	20.00	1.459	99.32	1.007	0.08	0.333	0.489
	WLAN5.2GHz	802.11a 6Mbps	Back	10mm	Ant 8+10(8)	Standalone Non DBS	40	5200	18.36	20.00	1.459	99.32	1.007	0.01	0.660	0.970
63	WLAN5.2GHz	802.11a 6Mbps	Back	10mm	Ant 8+10(10)	Standalone Non DBS	44	5220	17.88	19.50	1.452	99.32	1.007	-0.08	0.736	1.076
	WLAN5.2GHz	802.11a 6Mbps	Left Side	10mm	Ant 8+10(8)	Standalone Non DBS	40	5200	18.36	20.00	1.459	99.32	1.007	-0.08	0.128	0.188
	WLAN5.2GHz	802.11a 6Mbps	Right Side	10mm	Ant 8+10(8)	Standalone Non DBS	40	5200	18.36	20.00	1.459	99.32	1.007	0.1	0.439	0.645
	WLAN5.2GHz	802.11a 6Mbps	Top Side	10mm	Ant 8+10(8)	Standalone Non DBS	40	5200	18.36	20.00	1.459	99.32	1.007	-0.18	0.364	0.535
	WLAN5.2GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 8+10(10)	Standalone DBS only	42	5210	14.56	16.00	1.393	100	1.000	-0.09	0.414	0.577
	WLAN5.2GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 8+10(10)	Simultaneous Non DBS	42	5210	12.98	14.50	1.419	100	1.000	-0.08	0.266	0.377
	WLAN5.2GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 8+10(10)	Simultaneous DBS	42	5210	10.09	11.50	1.384	100	1.000	-0.08	0.129	0.178
	WLAN5.8GHz	802.11a 6Mbps	Front	10mm	Ant 8+10(8)	Standalone Non DBS	165	5825	18.61	20.50	1.543	99.32	1.007	-0.08	0.311	0.483
	WLAN5.8GHz	802.11a 6Mbps	Back	10mm	Ant 8+10(10)	Standalone Non DBS	165	5825	18.61	20.50	1.543	99.32	1.007	-0.17	0.678	1.054
64	WLAN5.8GHz	802.11a 6Mbps	Back	10mm	Ant 8+10(8)	Standalone Non DBS	149	5745	17.78	19.50	1.486	99.32	1.007	0.03	0.782	1.170
	WLAN5.8GHz	802.11a 6Mbps	Back	10mm	Ant 8+10(10)	Standalone Non DBS	157	5785	17.12	19.00	1.542	99.32	1.007	0.01	0.750	1.164
	WLAN5.8GHz	802.11a 6Mbps	Left Side	10mm	Ant 8+10(8)	Standalone Non DBS	165	5825	18.61	20.50	1.543	99.32	1.007	-0.04	0.077	0.120
	WLAN5.8GHz	802.11a 6Mbps	Right Side	10mm	Ant 8+10(8)	Standalone Non DBS	165	5825	18.61	20.50	1.543	99.32	1.007	-0.08	0.291	0.452
	WLAN5.8GHz	802.11a 6Mbps	Top Side	10mm	Ant 8+10(8)	Standalone Non DBS	165	5825	18.61	20.50	1.543	99.32	1.007	0.17	0.429	0.667
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 8+10(8)	Standalone DBS only	155	5775	14.75	16.50	1.496	100	1.000	0.01	0.398	0.596
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 8+10(8)	Simultaneous Non DBS	155	5775	12.81	14.50	1.476	100	1.000	0.18	0.262	0.387
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 8+10(10)	Simultaneous DBS	155	5775	9.55	11.50	1.567	100	1.000	-0.06	0.122	0.191



15.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																				
	LTE Band 71	20M	QPSK	1	0	-	Front	15mm	Ant 0	DS10	133297	680.5	22.76	24.00	1.330	-	-	0.08	0.181	0.241
	LTE Band 71	20M	QPSK	50	0	-	Front	15mm	Ant 0	DS10	133297	680.5	21.68	23.00	1.355	-	-	0.01	0.157	0.213
65	LTE Band 71	20M	QPSK	1	0	-	Back	15mm	Ant 0	DS10	133297	680.5	22.76	24.00	1.330	-	-	-0.05	0.208	0.277
	LTE Band 71	20M	QPSK	50	0	-	Back	15mm	Ant 0	DS10	133297	680.5	21.68	23.00	1.355	-	-	0.03	0.177	0.240
	LTE Band 71	20M	QPSK	1	0	-	Front	15mm	Ant 1	DS10	133297	680.5	21.99	23.50	1.416	-	-	0.08	0.114	0.161
	LTE Band 71	20M	QPSK	50	0	-	Front	15mm	Ant 1	DS10	133297	680.5	21.12	22.50	1.374	-	-	0.01	0.094	0.129
	LTE Band 71	20M	QPSK	1	0	-	Back	15mm	Ant 1	DS10	133297	680.5	21.99	23.50	1.416	-	-	0.03	0.119	0.168
	LTE Band 71	20M	QPSK	50	0	-	Back	15mm	Ant 1	DS10	133297	680.5	21.12	22.50	1.374	-	-	-0.08	0.094	0.129
	LTE Band 12	10M	QPSK	1	0	-	Front	15mm	Ant 0	DS10	23095	707.5	23.89	25.00	1.291	-	-	-0.08	0.252	0.325
	LTE Band 12	10M	QPSK	25	0	-	Front	15mm	Ant 0	DS10	23095	707.5	22.85	24.00	1.303	-	-	0.1	0.216	0.281
66	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 0	DS10	23095	707.5	23.89	25.00	1.291	-	-	-0.08	0.280	0.362
	LTE Band 12	10M	QPSK	25	0	-	Back	15mm	Ant 0	DS10	23095	707.5	22.85	24.00	1.303	-	-	-0.18	0.231	0.301
	LTE Band 12	10M	QPSK	1	0	-	Front	15mm	Ant 1	DS10	23095	707.5	22.52	24.00	1.406	-	-	0.1	0.142	0.200
	LTE Band 12	10M	QPSK	25	0	-	Front	15mm	Ant 1	DS10	23095	707.5	21.68	23.00	1.355	-	-	-0.18	0.118	0.160
	LTE Band 12	10M	QPSK	1	0	-	Back	15mm	Ant 1	DS10	23095	707.5	22.52	24.00	1.406	-	-	0.02	0.169	0.238
	LTE Band 12	10M	QPSK	25	0	-	Back	15mm	Ant 1	DS10	23095	707.5	21.68	23.00	1.355	-	-	0.1	0.140	0.190
	LTE Band 13	10M	QPSK	1	0	-	Front	15mm	Ant 0	DS10	23230	782	23.71	25.00	1.346	-	-	0.12	0.232	0.312
	LTE Band 13	10M	QPSK	25	0	-	Front	15mm	Ant 0	DS10	23230	782	22.71	24.00	1.346	-	-	0.08	0.200	0.269
67	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 0	DS10	23230	782	23.71	25.00	1.346	-	-	-0.03	0.258	0.347
	LTE Band 13	10M	QPSK	25	0	-	Back	15mm	Ant 0	DS10	23230	782	22.71	24.00	1.346	-	-	-0.17	0.214	0.288
	LTE Band 13	10M	QPSK	1	0	-	Front	15mm	Ant 1	DS10	23230	782	22.45	24.00	1.429	-	-	0.08	0.140	0.200
	LTE Band 13	10M	QPSK	25	0	-	Front	15mm	Ant 1	DS10	23230	782	21.62	23.00	1.374	-	-	-0.17	0.111	0.153
	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 1	DS10	23230	782	22.45	24.00	1.429	-	-	-0.03	0.176	0.251
	LTE Band 13	10M	QPSK	25	0	-	Back	15mm	Ant 1	DS10	23230	782	21.62	23.00	1.374	-	-	0.14	0.141	0.194
	LTE Band 14	10M	QPSK	1	0	-	Front	15mm	Ant 0	DS10	23330	793	23.83	25.00	1.309	-	-	0.14	0.277	0.363
	LTE Band 14	10M	QPSK	25	0	-	Front	15mm	Ant 0	DS10	23330	793	22.82	24.00	1.312	-	-	0.11	0.235	0.308
68	LTE Band 14	10M	QPSK	1	0	-	Back	15mm	Ant 0	DS10	23330	793	23.83	25.00	1.309	-	-	-0.01	0.304	0.398
	LTE Band 14	10M	QPSK	25	0	-	Back	15mm	Ant 0	DS10	23330	793	22.82	24.00	1.312	-	-	-0.05	0.252	0.331
	LTE Band 14	10M	QPSK	1	0	-	Front	15mm	Ant 1	DS10	23330	793	22.47	24.00	1.422	-	-	-0.05	0.114	0.162
	LTE Band 14	10M	QPSK	25	0	-	Front	15mm	Ant 1	DS10	23330	793	21.54	23.00	1.400	-	-	0.18	0.094	0.132
	LTE Band 14	10M	QPSK	1	0	-	Back	15mm	Ant 1	DS10	23330	793	22.47	24.00	1.422	-	-	0.14	0.142	0.202
	LTE Band 14	10M	QPSK	25	0	-	Back	15mm	Ant 1	DS10	23330	793	21.54	23.00	1.400	-	-	-0.17	0.117	0.164
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	DS10	136100	680.5	22.65	24.00	1.365	-	-	0.14	0.161	0.220
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	DS10	136100	680.5	22.48	24.00	1.419	-	-	-0.17	0.200	0.284
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DS10	136100	680.5	22.65	24.00	1.365	-	-	0.17	0.184	0.251
69	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 0	DS10	136100	680.5	22.48	24.00	1.419	-	-	-0.01	0.223	0.316
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	DS15	136100	680.5	22.53	24.00	1.403	-	-	-0.05	0.175	0.245
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 1	DS15	136100	680.5	22.23	24.00	1.503	-	-	0.01	0.153	0.230
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DS15	136100	680.5	22.53	24.00	1.403	-	-	0.1	0.190	0.267
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 1	DS15	136100	680.5	22.23	24.00	1.503	-	-	-0.17	0.166	0.250
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	DS10	141500	707.5	23.79	25.00	1.321	-	-	0.01	0.212	0.280
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	15mm	Ant 0	DS10	141500	707.5	23.67	25.00	1.358	-	-	0.1	0.246	0.334
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DS10	141500	707.5	23.79	25.00	1.321	-	-	-0.17	0.237	0.313
70	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	15mm	Ant 0	DS10	141500	707.5	23.67	25.00	1.358	-	-	-0.01	0.266	0.361
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	DS15	141500	707.5	22.49	24.00	1.416	-	-	-0.01	0.200	0.283
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	15mm	Ant 1	DS15	141500	707.5	22.32	24.00	1.472	-	-	-0.08	0.191	0.281
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DS15	141500	707.5	22.49	24.00	1.416	-	-	0.05	0.215	0.304
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	15mm	Ant 1	DS15	141500	707.5	22.32	24.00	1.472	-	-	0.06	0.201	0.296
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	DS10	156400	782	23.72	25.00	1.343	-	-	-0.01	0.227	0.305
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Front	15mm	Ant 0	DS10	156400	782	23.55	25.00	1.396	-	-	-0.08	0.254	0.355



FCC SAR Test Report

Report No. : FA460505

	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DS10	156400	782	23.72	25.00	1.343	-	-	0.05	0.239	0.321
71	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Back	15mm	Ant 0	DS10	156400	782	23.55	25.00	1.396	-	-	0.01	0.260	0.363
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	DS15	156400	782	22.42	24.00	1.439	-	-	-0.08	0.182	0.262
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Front	15mm	Ant 1	DS15	156400	782	22.17	24.00	1.524	-	-	0.13	0.161	0.245
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DS15	156400	782	22.42	24.00	1.439	-	-	0.12	0.201	0.289
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Back	15mm	Ant 1	DS15	156400	782	22.17	24.00	1.524	-	-	0.03	0.199	0.303
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	DS10	158600	793	23.69	25.00	1.352	-	-	-0.09	0.273	0.369
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	15mm	Ant 0	DS10	158600	793	23.51	25.00	1.409	-	-	-0.08	0.277	0.390
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DS10	158600	793	23.69	25.00	1.352	-	-	0.13	0.290	0.392
72	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	15mm	Ant 0	DS10	158600	793	23.51	25.00	1.409	-	-	0.01	0.304	0.428
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	DS15	158600	793	22.54	24.00	1.400	-	-	0.16	0.164	0.230
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	15mm	Ant 1	DS15	158600	793	22.27	24.00	1.489	-	-	-0.1	0.155	0.231
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DS15	158600	793	22.54	24.00	1.400	-	-	0.07	0.199	0.279
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	15mm	Ant 1	DS15	158600	793	22.27	24.00	1.489	-	-	0.18	0.181	0.270
835MHz																				
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	DS10	4182	836.4	23.98	25.00	1.265	-	-	0.18	0.381	0.482
73	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 0	DS10	4182	836.4	23.98	25.00	1.265	-	-	-0.02	0.440	0.556
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	DS15	4182	836.4	22.71	24.00	1.346	-	-	-0.01	0.116	0.156
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DS15	4182	836.4	22.71	24.00	1.346	-	-	-0.09	0.126	0.170
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 0	DS10	26865	831.5	23.62	25.00	1.374	-	-	-0.1	0.299	0.411
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 0	DS10	26865	831.5	22.75	24.00	1.334	-	-	0.07	0.268	0.357
74	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 0	DS10	26865	831.5	23.62	25.00	1.374	-	-	-0.05	0.342	0.470
	LTE Band 5B	10M	QPSK	1	49	-	Back	15mm	Ant 0	DS10	20476+20575	826.6+836.5	23.47	25.00	1.422	-	-	0.02	0.311	0.442
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 0	DS10	26865	831.5	22.75	24.00	1.334	-	-	0.18	0.295	0.393
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 1	DS15	26865	831.5	22.34	24.00	1.466	-	-	-0.17	0.136	0.199
	LTE Band 26	15M	QPSK	36	0	-	Front	15mm	Ant 1	DS15	26865	831.5	21.49	23.00	1.416	-	-	-0.01	0.109	0.154
	LTE Band 26	15M	QPSK	1	0	-	Back	15mm	Ant 1	DS15	26865	831.5	22.34	24.00	1.466	-	-	-0.11	0.158	0.232
	LTE Band 5B	10M	QPSK	1	49	-	Back	15mm	Ant 1	DS15	20476+20575	826.6+836.5	22.21	23.60	1.377	-	-	0.02	0.133	0.183
	LTE Band 26	15M	QPSK	36	0	-	Back	15mm	Ant 1	DS15	26865	831.5	21.49	23.00	1.416	-	-	0.14	0.126	0.178
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	DS10	166300	831.5	23.73	25.00	1.340	-	-	0.01	0.270	0.362
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	DS10	166300	831.5	23.46	25.00	1.426	-	-	-0.15	0.311	0.443
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DS10	166300	831.5	23.73	25.00	1.340	-	-	0.19	0.313	0.419
75	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 0	DS10	166300	831.5	23.46	25.00	1.426	-	-	-0.09	0.350	0.499
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	DS15	166300	831.5	22.01	23.60	1.442	-	-	0.1	0.140	0.202
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 1	DS15	166300	831.5	21.65	23.60	1.567	-	-	0.16	0.161	0.252
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DS15	166300	831.5	22.01	23.60	1.442	-	-	-0.06	0.169	0.244
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 1	DS15	166300	831.5	21.65	23.60	1.567	-	-	0.02	0.187	0.293
900MHz																				
	RFID	-	-	-	-	-	Front	15mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	-0.05	0.327	0.133
	RFID	-	-	-	-	-	Back	15mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	0.18	0.231	0.094
	RFID	-	-	-	-	-	Front	15mm	-	-	-	902.75	23.84	25.00	1.307	86.92	0.345	0.14	0.252	0.114
76	RFID	-	-	-	-	-	Front	15mm	-	-	-	914.75	24.12	25.00	1.225	86.92	0.345	0.01	0.328	0.139
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	DS10	1413	1732.6	22.78	23.20	1.102	-	-	0.08	0.317	0.349
77	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	DS10	1413	1732.6	22.78	23.20	1.102	-	-	-0.05	0.434	0.478
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	DS10	1312	1712.4	22.65	23.20	1.135	-	-	0.01	0.392	0.445
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	DS10	1513	1752.6	22.75	23.20	1.109	-	-	0.03	0.430	0.477
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 2	DS10	132322	1745	22.95	23.60	1.161	-	-	-0.08	0.379	0.440
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 2	DS10	132322	1745	22.65	23.60	1.245	-	-	-0.17	0.310	0.386
	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 2	DS10	132322	1745	22.95	23.60	1.161	-	-	0.02	0.480	0.557
	LTE Band 66C	20M	QPSK	1	99	-	Back	15mm	Ant 2	DS10	132322+132520	1745+1764.8	22.81	23.60	1.199	-	-	0.09	0.455	0.546
	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 2	DS10	132322	1745	22.65	23.60	1.245	-	-	-0.08	0.392	0.488
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 5	DS10	132322	1745	23.45	25.00	1.429	-	-	-0.08	0.409	0.584
	LTE Band 66	20M	QPSK	50	0	-	Front	15mm	Ant 5	DS10	132322	1745	22.36	24.00	1.459	-	-	0.17	0.324	0.473
78	LTE Band 66	20M	QPSK	1	0	-	Back	15mm	Ant 5	DS10	132322	1745	23.45	25.00	1.429	-	-	-0.02	0.434	0.620



FCC SAR Test Report

Report No. : FA460505

	LTE Band 66	20M	QPSK	50	0	-	Back	15mm	Ant 5	DSIO	132322	1745	22.36	24.00	1.459	-	-	0.18	0.348	0.508
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 2	DSIO	349000	1745	22.74	23.60	1.219	-	-	-0.08	0.333	0.406
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 2	DSIO	349000	1745	22.67	23.60	1.239	-	-	-0.13	0.348	0.431
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	DSIO	349000	1745	22.74	23.60	1.219	-	-	-0.13	0.427	0.521
79	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 2	DSIO	349000	1745	22.67	23.60	1.239	-	-	-0.06	0.442	0.548
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 5	DSIO	349000	1745	24.36	25.00	1.159	-	-	-0.03	0.373	0.432
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 5	DSIO	349000	1745	24.26	25.00	1.186	-	-	-0.03	0.366	0.434
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 5	DSIO	349000	1745	24.36	25.00	1.159	-	-	0.06	0.406	0.470
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 5	DSIO	349000	1745	24.26	25.00	1.186	-	-	0.08	0.400	0.474
1900MHz																				
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	DSIO	9400	1880	22.92	23.20	1.067	-	-	0.08	0.330	0.352
80	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	DSIO	9400	1880	22.92	23.20	1.067	-	-	-0.05	0.389	0.415
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 5	DSIO	18900	1880	23.62	24.40	1.197	-	-	0.03	0.417	0.499
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 5	DSIO	18900	1880	22.51	24.00	1.409	-	-	-0.08	0.344	0.485
81	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 5	DSIO	18900	1880	23.62	24.40	1.197	-	-	-0.07	0.476	0.570
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 5	DSIO	18900	1880	22.51	24.00	1.409	-	-	-0.08	0.397	0.559
	LTE Band 25	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSIO	26340	1880	22.53	23.20	1.167	-	-	-0.18	0.305	0.356
	LTE Band 25	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSIO	26340	1880	22.46	23.20	1.186	-	-	0.1	0.249	0.295
82	LTE Band 25	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSIO	26340	1880	22.53	23.20	1.167	-	-	-0.02	0.375	0.438
	LTE Band 25	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSIO	26340	1880	22.46	23.20	1.186	-	-	0.12	0.302	0.358
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 2	DSIO	376500	1882.5	22.26	23.20	1.242	-	-	-0.17	0.268	0.333
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 2	DSIO	376500	1882.5	22.11	23.20	1.285	-	-	-0.03	0.243	0.312
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	DSIO	376500	1882.5	22.26	23.20	1.242	-	-	0.09	0.333	0.413
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 2	DSIO	376500	1882.5	22.11	23.20	1.285	-	-	0.14	0.311	0.400
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 5	DSIO	376500	1882.5	23.38	24.40	1.265	-	-	-0.05	0.308	0.390
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 5	DSIO	376500	1882.5	23.28	24.40	1.294	-	-	0.18	0.315	0.408
83	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 5	DSIO	376500	1882.5	23.38	24.40	1.265	-	-	0.03	0.365	0.462
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 5	DSIO	376500	1882.5	23.28	24.40	1.294	-	-	0.14	0.340	0.440
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Front	15mm	Ant 3	DSIO	27710	2310	19.51	20.40	1.227	-	-	-0.17	0.197	0.242
	LTE Band 30	10M	QPSK	25	0	-	Front	15mm	Ant 3	DSIO	27710	2310	19.46	20.40	1.242	-	-	0.17	0.160	0.199
84	LTE Band 30	10M	QPSK	1	0	-	Back	15mm	Ant 3	DSIO	27710	2310	19.51	20.40	1.227	-	-	-0.14	0.210	0.258
	LTE Band 30	10M	QPSK	25	0	-	Back	15mm	Ant 3	DSIO	27710	2310	19.46	20.40	1.242	-	-	-0.05	0.168	0.209
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Back	15mm	Ant 3	DSIO	27710	2310	19.51	20.40	1.227	-	-	0.01	0.195	0.239
85	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 3	DSIO	462000	2310	19.54	20.70	1.306	-	-	0.09	0.195	0.255
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	15mm	Ant 3	DSIO	462000	2310	19.51	20.70	1.315	-	-	-0.06	0.191	0.251
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 3	DSIO	462000	2310	19.54	20.70	1.306	-	-	-0.04	0.155	0.202
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	15mm	Ant 3	DSIO	462000	2310	19.51	20.70	1.315	-	-	-0.09	0.152	0.200
	FR1 n30 Other PA	10M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 3	DSIO	462000	2310	19.54	20.70	1.306	-	-	0.03	0.175	0.229
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSIO	21100	2535	20.36	20.90	1.132	-	-	0.01	0.394	0.446
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSIO	21100	2535	20.29	20.90	1.151	-	-	0.1	0.323	0.372
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSIO	21100	2535	20.36	20.90	1.132	-	-	-0.17	0.498	0.564
86	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSIO	20850	2510	20.28	20.90	1.153	-	-	-0.05	0.535	0.617
	LTE Band 7C	20M	QPSK	1	99	-	Back	15mm	Ant 3	DSIO	20850+21048	2510+2529.8	20.22	20.90	1.169	-	-	0.09	0.504	0.589
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSIO	21350	2560	20.27	20.90	1.156	-	-	0.04	0.456	0.527
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSIO	21100	2535	20.29	20.90	1.151	-	-	-0.01	0.409	0.471
	LTE Band 7	20M	QPSK	100	0	-	Back	15mm	Ant 3	DSIO	21100	2535	20.26	20.90	1.159	-	-	-0.08	0.391	0.453
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSIO	20850	2510	20.28	20.90	1.153	-	-	0.03	0.486	0.561
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSIO	40620	2593	22.25	22.80	1.135	62.9	1.006	0.05	0.231	0.264
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSIO	40620	2593	21.83	22.80	1.250	62.9	1.006	0.06	0.184	0.231
87	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSIO	40620	2593	22.25	22.80	1.135	62.9	1.006	-0.06	0.313	0.357
	LTE Band 41C	20M	QPSK	1	99	-	Back	15mm	Ant 3	DSIO	40620+40818	2593+2612.8	22.19	22.80	1.151	62.9	1.006	0.02	0.299	0.346
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSIO	40620	2593	21.83	22.80	1.250	62.9	1.006	-0.09	0.259	0.326
	LTE Band 41_HPUE	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSIO	40620	2593	23.88	24.40	1.127	42.9	1.009	-0.14	0.286	0.325



FCC SAR Test Report

Report No. : FA460505

	LTE Band 41C_HPUE	20M	QPSK	1	99	-	Back	15mm	Ant 3	DS10	40620+40818	2593+2612.8	23.75	24.40	1.161	42.9	1.009	-0.08	0.275	0.322
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 3	DS10	507000	2535	20.77	21.80	1.268	-	-	-0.08	0.373	0.473
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 3	DS10	507000	2535	20.65	21.80	1.303	-	-	0.13	0.337	0.439
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Front	15mm	Ant 3	DS10	507000	2535	20.36	21.80	1.393	-	-	0.12	0.276	0.385
88	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 3	DS10	507000	2535	20.77	21.80	1.268	-	-	-0.05	0.461	0.584
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	15mm	Ant 3	DS10	507000	2535	20.65	21.80	1.303	-	-	0.03	0.447	0.583
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Back	15mm	Ant 3	DS10	507000	2535	20.36	21.80	1.393	-	-	0.18	0.348	0.485
	FR1 n7 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 3	DS10	507000	2535	20.77	21.80	1.268	-	-	0.02	0.423	0.536
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 3	DS10	518598	2592.99	19.78	20.80	1.265	-	-	0.16	0.279	0.353
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 3	DS10	518598	2592.99	19.61	20.80	1.315	-	-	-0.1	0.213	0.280
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	15mm	Ant 3	DS10	518598	2592.99	19.37	20.80	1.390	-	-	0.07	0.209	0.291
89	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 3	DS10	518598	2592.99	19.78	20.80	1.265	-	-	-0.09	0.381	0.482
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 3	DS10	518598	2592.99	19.61	20.80	1.315	-	-	0.18	0.317	0.417
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	15mm	Ant 3	DS10	518598	2592.99	19.37	20.80	1.390	-	-	-0.1	0.278	0.386
	FR1 n41 PC2 Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 3	DS10	518598	2592.99	19.78	20.80	1.265	-	-	0.09	0.355	0.449
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 0	DS10	518598	2592.99	21.21	22.00	1.199	-	-	0.01	0.149	0.179
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 0	DS10	518598	2592.99	21.12	22.00	1.225	-	-	-0.15	0.160	0.196
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 0	DS10	518598	2592.99	21.21	22.00	1.199	-	-	0.19	0.182	0.218
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 0	DS10	518598	2592.99	21.12	22.00	1.225	-	-	-0.04	0.201	0.246
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	15mm	Ant 0	DS10	518598	2592.99	20.90	22.00	1.288	-	-	0.07	0.155	0.200
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 5	DS10	518598	2592.99	19.35	20.40	1.274	-	-	-0.18	0.117	0.149
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 5	DS10	518598	2592.99	19.32	20.40	1.282	-	-	0.03	0.085	0.109
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DS10	518598	2592.99	19.35	20.40	1.274	-	-	0.07	0.169	0.215
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 5	DS10	518598	2592.99	19.32	20.40	1.282	-	-	-0.15	0.135	0.173
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DS15	518598	2592.99	17.35	18.40	1.274	-	-	0.07	0.107	0.136
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DS10	518598	2592.99	19.22	20.30	1.282	-	-	-0.15	0.166	0.213
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DS10	518598	2592.99	19.17	20.30	1.297	-	-	0.11	0.145	0.188
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DS10	518598	2592.99	19.22	20.30	1.282	-	-	-0.01	0.249	0.319
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DS10	518598	2592.99	19.17	20.30	1.297	-	-	-0.08	0.222	0.288
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DS15	518598	2592.99	17.25	18.30	1.274	-	-	-0.01	0.157	0.200
3500MHz																				
90	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 4	DS10	55830	3609	21.90	23.00	1.288	62.9	1.006	-0.08	0.434	0.562
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 4	DS10	55830	3609	21.13	22.00	1.222	62.9	1.006	-0.17	0.350	0.430
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 4	DS10	55830	3609	21.90	23.00	1.288	62.9	1.006	-0.08	0.409	0.530
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 4	DS10	55830	3609	21.13	22.00	1.222	62.9	1.006	-0.04	0.322	0.396
	LTE Band 48C	20M	QPSK	1	0	-	Front	15mm	Ant 4	DS10	55830+56028	3609+3628.8	21.82	23.00	1.312	62.9	1.006	0.09	0.402	0.531
91	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 4	DS10	641666	3624.99	21.22	22.30	1.282	-	-	0.07	0.393	0.504
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	15mm	Ant 4	DS10	641666	3624.99	21.09	22.30	1.321	-	-	-0.08	0.376	0.497
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	DS10	641666	3624.99	21.22	22.30	1.282	-	-	0.17	0.383	0.491
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 4	DS10	641666	3624.99	21.09	22.30	1.321	-	-	0.18	0.373	0.493
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 4	DS10	656000	3840	22.26	23.20	1.242	-	-	-0.02	0.332	0.412
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 4	DS10	656000	3840	22.19	23.20	1.262	-	-	-0.04	0.301	0.380
	FR1 n77 Part 270 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	15mm	Ant 4	DS10	656000	3840	21.97	23.20	1.327	-	-	-0.08	0.250	0.332
	FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	DS10	656000	3840	22.26	23.20	1.242	-	-	-0.13	0.306	0.380
	FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 4	DS10	656000	3840	22.19	23.20	1.262	-	-	-0.13	0.326	0.411
	FR1 n77 Part 270 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	15mm	Ant 4	DS10	656000	3840	21.97	23.20	1.327	-	-	0.06	0.237	0.315
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 4	DS10	633334	3500.01	21.81	23.20	1.377	-	-	0.03	0.424	0.584
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 4	DS10	633334	3500.01	21.77	23.20	1.390	-	-	-0.03	0.405	0.563
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	15mm	Ant 4	DS10	633334	3500.01	21.50	23.20	1.479	-	-	-0.03	0.296	0.438
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	DS10	633334	3500.01	21.81	23.20	1.377	-	-	0.08	0.327	0.450
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 4	DS10	633334	3500.01	21.77	23.20	1.390	-	-	-0.07	0.337	0.468
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	15mm	Ant 4	DS10	633334	3500.01	21.50	23.20	1.479	-	-	0.05	0.275	0.407
92	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 4	DS10	641666	3624.99	22.02	23.20	1.312	-	-	0.07	0.464	0.609
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 4	DS10	641666	3624.99	21.95	23.20	1.334	-	-	-0.11	0.361	0.481
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	DS10	641666	3624.99	22.02	23.20	1.312	-	-	-0.12	0.364	0.478



FCC SAR Test Report

Report No. : FA460505

FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 4	DSIO	641666	3624.99	21.95	23.20	1.334	-	-	0.03	0.347	0.463
FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Front	15mm	Ant 4	DSIO	641666	3624.99	21.74	23.20	1.400	-	-	-0.16	0.411	0.575
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 2	DSIO	656000	3840	22.92	23.60	1.169	-	-	-0.03	0.299	0.350
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 2	DSIO	656000	3840	22.86	23.60	1.186	-	-	0.11	0.280	0.332
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	DSIO	656000	3840	22.92	23.60	1.169	-	-	-0.02	0.293	0.343
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 2	DSIO	656000	3840	22.86	23.60	1.186	-	-	0.1	0.217	0.257
FR1 n77 Part 270 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	15mm	Ant 2	DSIO	656000	3840	22.64	23.60	1.247	-	-	0.04	0.262	0.327
FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 2	DSIO	633334	3500.01	22.17	23.60	1.390	-	-	0.13	0.144	0.200
FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 2	DSIO	633334	3500.01	22.12	23.60	1.406	-	-	-0.03	0.165	0.232
FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	DSIO	633334	3500.01	22.17	23.60	1.390	-	-	-0.18	0.145	0.202
FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 2	DSIO	633334	3500.01	22.12	23.60	1.406	-	-	-0.11	0.159	0.224
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 2	DSIO	641666	3624.99	21.82	23.00	1.312	-	-	-0.14	0.284	0.373
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 2	DSIO	641666	3624.99	21.69	23.00	1.352	-	-	-0.16	0.256	0.346
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	DSIO	641666	3624.99	21.82	23.00	1.312	-	-	-0.15	0.259	0.340
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 2	DSIO	641666	3624.99	21.69	23.00	1.352	-	-	-0.06	0.244	0.330
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 3	DSIO	656000	3840	18.31	18.90	1.146	-	-	-0.14	0.051	0.058
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 3	DSIO	656000	3840	18.23	18.90	1.167	-	-	-0.19	0.029	0.034
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 3	DSIO	656000	3840	18.31	18.90	1.146	-	-	-0.07	0.138	0.158
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 3	DSIO	656000	3840	18.23	18.90	1.167	-	-	0.01	0.123	0.144
FR1 n77 Part 270 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	15mm	Ant 3	DSIO	656000	3840	17.99	18.90	1.233	-	-	0.06	0.101	0.125
FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 3	DSIO	633334	3500.01	18.01	18.90	1.227	-	-	0.02	0.091	0.112
FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 3	DSIO	633334	3500.01	17.91	18.90	1.256	-	-	0.12	0.079	0.099
FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 3	DSIO	633334	3500.01	18.01	18.90	1.227	-	-	-0.09	0.161	0.198
FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 3	DSIO	633334	3500.01	17.91	18.90	1.256	-	-	-0.16	0.139	0.175
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 3	DSIO	641666	3624.99	18.15	18.90	1.189	-	-	-0.12	0.074	0.088
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 3	DSIO	641666	3624.99	18.05	18.90	1.216	-	-	0.07	0.058	0.071
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 3	DSIO	641666	3624.99	18.15	18.90	1.189	-	-	0.05	0.137	0.163
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 3	DSIO	641666	3624.99	18.05	18.90	1.216	-	-	-0.02	0.120	0.146
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DSIO	656000	3840	19.55	20.10	1.135	-	-	-0.09	0.195	0.221
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSIO	656000	3840	19.53	20.10	1.140	-	-	-0.06	0.156	0.178
FR1 n77 Part 270 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	15mm	Ant 6	DSIO	656000	3840	19.30	20.10	1.202	-	-	-0.17	0.141	0.170
FR1 n77 Part 270 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSIO	656000	3840	19.55	20.10	1.135	-	-	-0.04	0.304	0.345
FR1 n77 Part 270 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DSIO	656000	3840	19.53	20.10	1.140	-	-	-0.01	0.236	0.269
FR1 n77 Part 270 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	15mm	Ant 6	DSIO	656000	3840	19.30	20.10	1.202	-	-	-0.11	0.222	0.267
FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DSIO	633334	3500.01	19.62	20.10	1.117	-	-	0.14	0.136	0.152
FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSIO	633334	3500.01	19.54	20.10	1.138	-	-	0.03	0.145	0.165
FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSIO	633334	3500.01	19.62	20.10	1.117	-	-	0.1	0.190	0.212
FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DSIO	633334	3500.01	19.54	20.10	1.138	-	-	-0.13	0.203	0.231
FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	15mm	Ant 6	DSIO	633334	3500.01	19.44	20.10	1.164	-	-	0.16	0.186	0.217
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DSIO	641666	3624.99	19.01	20.10	1.285	-	-	-0.06	0.131	0.168
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSIO	641666	3624.99	18.95	20.10	1.303	-	-	0.02	0.132	0.172
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSIO	641666	3624.99	19.01	20.10	1.285	-	-	-0.16	0.181	0.233
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DSIO	641666	3624.99	18.95	20.10	1.303	-	-	-0.02	0.196	0.255



FCC SAR Test Report

Report No. : FA460505

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 7+9(7)	Full Power	11	2462	19.46	21.00	1.426	98.35	1.017	0.01	0.260	0.377
93	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7+9(7)	Full Power	11	2462	19.46	21.00	1.426	98.35	1.017	-0.16	0.299	0.434
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 7+9(9)	DBS only	11	2462	16.64	18.00	1.368	98.35	1.017	0.03	0.142	0.198
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 9	Full Power	11	2462	19.54	21.00	1.400	98.35	1.017	0.01	0.139	0.198
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 9	Full Power	11	2462	19.54	21.00	1.400	98.35	1.017	0.07	0.217	0.309
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 9	DBS	11	2462	17.65	19.00	1.365	98.35	1.017	-0.18	0.131	0.182
	Bluetooth	1Mbps	Front	15mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	0.06	0.002	0.004
94	Bluetooth	1Mbps	Back	15mm	Ant 7	Full Power	39	2441	9.23	11.00	1.504	76.78	1.085	-0.06	0.007	0.011
5000MHz																
	WLAN5.3GHz	802.11a 6Mbps	Front	15mm	Ant 8+10(10)	Full Power	64	5320	18.68	20.50	1.521	99.32	1.007	0.08	0.338	0.518
95	WLAN5.3GHz	802.11a 6Mbps	Back	15mm	Ant 8+10(10)	Full Power	64	5320	18.68	20.50	1.521	99.32	1.007	-0.01	0.692	1.060
	WLAN5.3GHz	802.11a 6Mbps	Back	15mm	Ant 8+10(8)	Full Power	56	5280	19.56	21.50	1.561	99.32	1.007	0.09	0.591	0.929
	WLAN5.2GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 8+10(8)	DBS only	42	5210	16.91	18.50	1.442	100	1.000	0.02	0.396	0.571
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 8+10(10)	Non DBS	50	5250	14.80	16.50	1.479	100	1.000	0.01	0.258	0.382
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 8+10(10)	DBS	50	5250	11.96	13.50	1.426	100	1.000	0.09	0.131	0.187
	WLAN5.5GHz	802.11a 6Mbps	Front	15mm	Ant 8+10(8)	Full Power	144	5720	19.63	21.50	1.536	99.32	1.007	0.01	0.215	0.333
96	WLAN5.5GHz	802.11a 6Mbps	Back	15mm	Ant 8+10(8)	Full Power	144	5720	19.63	21.50	1.536	99.32	1.007	-0.06	0.694	1.074
	WLAN5.5GHz	802.11a 6Mbps	Back	15mm	Ant 8+10(10)	Full Power	116	5580	18.73	20.50	1.503	99.32	1.007	0.09	0.502	0.760
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 8+10(8)	DBS only	114	5570	16.93	18.50	1.435	100	1.000	0.01	0.388	0.557
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 8+10(10)	Non DBS	114	5570	14.78	16.50	1.486	100	1.000	0.09	0.244	0.363
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	15mm	Ant 8+10(8)	DBS	114	5570	12.50	14.00	1.413	100	1.000	-0.05	0.129	0.182
	WLAN5.8GHz	802.11a 6Mbps	Front	15mm	Ant 8+10(8)	Full Power	149	5745	19.62	21.50	1.540	99.32	1.007	0.03	0.256	0.397
97	WLAN5.8GHz	802.11a 6Mbps	Back	15mm	Ant 8+10(8)	Full Power	149	5745	19.62	21.50	1.540	99.32	1.007	-0.05	0.742	1.151
	WLAN5.8GHz	802.11a 6Mbps	Back	15mm	Ant 8+10(8)	Full Power	165	5825	19.64	21.50	1.533	99.32	1.007	0.06	0.665	1.026
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 8+10(8)	DBS only	155	5775	15.81	17.50	1.476	100	1.000	0.01	0.389	0.574
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 8+10(8)	Non DBS	155	5775	14.75	16.50	1.496	100	1.000	-0.05	0.255	0.382
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 8+10(8)	DBS	155	5775	11.43	13.00	1.435	100	1.000	0.02	0.135	0.194



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)	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)
900MHz																				
	RFID	-	-	-	-	-	Front	0mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	0.1	1.030	0.419
	RFID	-	-	-	-	-	Back	0mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	0.12	0.858	0.349
	RFID	-	-	-	-	-	Left Side	0mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	0.08	0.805	0.327
	RFID	-	-	-	-	-	Right Side	0mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	-0.17	0.042	0.017
	RFID	-	-	-	-	-	Top Side	0mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	-0.03	0.648	0.263
	RFID	-	-	-	-	-	Bottom Side	0mm	-	-	-	927.25	24.29	25.00	1.178	86.92	0.345	0.14	0.027	0.011
98	RFID	-	-	-	-	-	Front	0mm	-	-	-	902.75	23.84	25.00	1.307	86.92	0.345	0.04	1.220	0.550
	RFID	-	-	-	-	-	Front	0mm	-	-	-	914.75	24.12	25.00	1.225	86.92	0.345	0.11	1.140	0.482
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSIO	1413	1732.6	22.78	23.20	1.102	-	-	-0.03	1.870	2.060
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSIO	1312	1712.4	22.65	23.20	1.135	-	-	0.17	1.770	2.009
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSIO	1513	1752.6	22.75	23.20	1.109	-	-	-0.14	1.970	2.185
99	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSIO	1413	1732.6	22.78	23.20	1.102	-	-	0.06	2.190	2.412
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSIO	1312	1712.4	22.65	23.20	1.135	-	-	-0.06	2.100	2.384
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSIO	1513	1752.6	22.75	23.20	1.109	-	-	0.09	2.100	2.329
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSI5	1413	1732.6	21.78	22.20	1.102	-	-	0.09	1.680	1.851
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSIO	132322	1745	22.95	23.60	1.161	-	-	0.01	2.330	2.706
	LTE Band 66C	20M	QPSK	1	99	-	Left Side	0mm	Ant 2	DSIO	132322+132520	1745+1764.8	22.81	23.60	1.199	-	-	0.09	2.150	2.579
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSIO	132072	1720	22.79	23.60	1.205	-	-	-0.04	2.070	2.494
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSIO	132572	1770	22.78	23.60	1.208	-	-	0.15	2.140	2.585
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSIO	132322	1745	22.65	23.60	1.245	-	-	0.09	1.840	2.290
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSIO	132072	1720	22.56	23.60	1.271	-	-	-0.16	1.740	2.211
	LTE Band 66	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSIO	132572	1770	22.57	23.60	1.268	-	-	0.05	1.740	2.206
	LTE Band 66	20M	QPSK	100	0	-	Left Side	0mm	Ant 2	DSIO	132322	1745	22.61	23.60	1.256	-	-	0.08	1.900	2.386
	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI5	132322	1745	21.45	22.10	1.161	-	-	0.01	1.650	1.916
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 5	DSIO	132322	1745	23.45	25.00	1.429	-	-	0.05	1.700	2.429
100	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 5	DSIO	132072	1720	23.19	25.00	1.517	-	-	0.08	1.900	2.882
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 5	DSIO	132572	1770	23.24	25.00	1.500	-	-	0	1.810	2.714
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 5	DSIO	132322	1745	22.36	24.00	1.459	-	-	0.07	1.400	2.042
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 5	DSIO	132072	1720	22.24	24.00	1.500	-	-	0.15	1.470	2.205
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 5	DSIO	132572	1770	22.27	24.00	1.489	-	-	-0.05	1.370	2.040
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 5	DSIO	132322	1745	22.28	24.00	1.486	-	-	-0.08	1.470	2.184
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 5	DSI5	132072	1720	21.78	23.50	1.486	-	-	0.08	1.340	1.991
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 2	DSIO	349000	1745	22.74	23.60	1.219	-	-	-0.03	2.180	2.657
101	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 2	DSIO	349000	1745	22.67	23.60	1.239	-	-	0.09	2.280	2.824
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 2	DSIO	349000	1745	22.44	23.60	1.306	-	-	0.17	1.840	2.403
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 2	DSIO	349000	1745	22.74	23.60	1.219	-	-	-0.15	1.690	2.060
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 2	DSIO	349000	1745	22.67	23.60	1.239	-	-	0.16	1.730	2.143
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 2	DSIO	349000	1745	22.44	23.60	1.306	-	-	0.05	1.430	1.868
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 2	DSIO	349000	1745	22.74	23.60	1.219	-	-	-0.06	1.950	2.377
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	0mm	Ant 2	DSIO	349000	1745	22.67	23.60	1.239	-	-	-0.13	2.090	2.589
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Left Side	0mm	Ant 2	DSIO	349000	1745	22.44	23.60	1.306	-	-	-0.01	1.580	2.064
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 2	DSI5	349000	1745	21.68	22.60	1.236	-	-	0.09	1.610	1.990
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 5	DSIO	349000	1745	24.36	25.00	1.159	-	-	-0.13	1.860	2.155
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 5	DSIO	349000	1745	24.26	25.00	1.186	-	-	0.02	1.950	2.312
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 5	DSIO	349000	1745	23.07	24.00	1.239	-	-	0.16	1.460	1.809
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 5	DSI5	349000	1745	23.36	24.00	1.159	-	-	0.02	1.550	1.796
1900MHz																				
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 2	DSIO	9400	1880	22.92	23.20	1.067	-	-	0.11	1.640	1.749
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSIO	9400	1880	22.92	23.20	1.067	-	-	-0.01	2.310	2.464



FCC SAR Test Report

Report No. : FA460505

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSIO	9262	1852.4	22.81	23.20	1.094	-	-	-0.09	2.190	2.396
102	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSIO	9538	1907.6	22.90	23.20	1.072	-	-	0.07	2.500	2.679
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSI5	9538	1907.6	21.37	21.70	1.079	-	-	0.07	1.770	1.910
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 5	DSIO	18900	1880	23.62	24.40	1.197	-	-	0.02	2.170	2.597
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 5	DSIO	18700	1860	23.46	24.40	1.242	-	-	0.12	2.110	2.620
103	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 5	DSIO	19100	1900	23.50	24.40	1.230	-	-	0.06	2.210	2.719
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 5	DSIO	18900	1880	22.51	24.00	1.409	-	-	-0.16	1.820	2.565
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 5	DSIO	18700	1860	22.46	24.00	1.426	-	-	-0.12	1.900	2.709
	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 5	DSIO	19100	1900	22.46	24.00	1.426	-	-	0.07	1.880	2.680
	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 5	DSIO	18900	1880	22.54	24.00	1.400	-	-	-0.02	1.830	2.561
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 5	DSI5	19100	1900	22.00	22.90	1.230	-	-	0.01	1.570	1.932
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSIO	26340	1880	22.53	23.20	1.167	-	-	-0.17	2.270	2.649
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSIO	26140	1860	22.37	23.20	1.211	-	-	-0.1	2.140	2.591
104	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSIO	26590	1905	22.48	23.20	1.180	-	-	0.08	2.360	2.786
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSIO	26340	1880	22.46	23.20	1.186	-	-	0.18	1.880	2.229
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSIO	26140	1860	22.23	23.20	1.250	-	-	-0.17	1.820	2.275
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 2	DSIO	26590	1905	22.41	23.20	1.199	-	-	-0.04	2.020	2.423
	LTE Band 25	20M	QPSK	100	0	-	Left Side	0mm	Ant 2	DSIO	26340	1880	22.48	23.20	1.180	-	-	-0.05	2.030	2.396
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI5	26590	1905	20.98	21.70	1.180	-	-	0.02	1.670	1.971
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 2	DSIO	376500	1882.5	22.26	23.20	1.242	-	-	-0.02	2.280	2.831
105	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	0mm	Ant 2	DSIO	376500	1882.5	22.11	23.20	1.285	-	-	0.06	2.370	3.046
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Left Side	0mm	Ant 2	DSIO	376500	1882.5	21.86	23.20	1.361	-	-	0.15	1.970	2.682
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	0mm	Ant 2	DSI5	376500	1882.5	20.11	21.20	1.285	-	-	0.02	1.500	1.928
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 5	DSIO	376500	1882.5	23.38	24.40	1.265	-	-	0.07	2.380	3.010
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 5	DSIO	376500	1882.5	23.28	24.40	1.294	-	-	-0.08	2.310	2.990
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 5	DSIO	376500	1882.5	23.21	24.00	1.199	-	-	0.17	1.940	2.327
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 5	DSI5	376500	1882.5	21.88	22.90	1.265	-	-	-0.08	1.580	1.998
2300MHz																				
106	LTE Band 30	10M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	27710	2310	19.51	20.40	1.227	-	-	0.01	2.490	3.056
	LTE Band 30	10M	QPSK	25	0	-	Left Side	0mm	Ant 3	DSIO	27710	2310	19.46	20.40	1.242	-	-	0.18	2.020	2.508
	LTE Band 30	10M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSIO	27710	2310	19.17	20.40	1.327	-	-	-0.1	2.070	2.748
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	27710	2310	19.51	20.40	1.227	-	-	0.09	2.290	2.811
	LTE Band 30	10M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI5	27710	2310	17.51	18.40	1.227	-	-	-0.09	1.570	1.927
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 3	DSI1	462000	2310	19.54	20.60	1.276	-	-	0.14	1.630	2.081
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	0mm	Ant 3	DSI1	462000	2310	19.51	20.60	1.285	-	-	0.11	1.290	1.658
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Front	0mm	Ant 3	DSI1	462000	2310	19.44	20.60	1.306	-	-	0.03	1.330	1.737
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 3	DSI1	462000	2310	19.54	20.60	1.276	-	-	-0.05	1.000	1.276
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 3	DSI1	462000	2310	19.51	20.60	1.285	-	-	0.18	0.807	1.037
107	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 3	DSI1	462000	2310	19.54	20.60	1.276	-	-	0.14	2.340	2.987
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	0mm	Ant 3	DSI1	462000	2310	19.51	20.60	1.285	-	-	-0.17	1.890	2.429
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Left Side	0mm	Ant 3	DSI1	462000	2310	19.44	20.60	1.306	-	-	0.03	1.770	2.312
	FR1 n30 Other PA	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 3	DSI1	462000	2310	19.54	20.60	1.276	-	-	0.09	2.260	2.885
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 3	DSI5	462000	2310	17.54	18.70	1.306	-	-	0.05	1.480	1.933
2600MHz																				
108	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	21100	2535	20.36	20.90	1.132	-	-	0.01	2.590	2.933
	LTE Band 7C	20M	QPSK	1	99	-	Left Side	0mm	Ant 3	DSIO	21100+ 21298	2535+ 2554.8	20.22	20.90	1.169	-	-	0.07	2.340	2.737
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	20850	2510	20.28	20.90	1.153	-	-	-0.16	2.470	2.849
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	21350	2560	20.27	20.90	1.156	-	-	0	2.530	2.925
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSIO	21100	2535	20.29	20.90	1.151	-	-	-0.02	2.150	2.474
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSIO	20850	2510	20.18	20.90	1.180	-	-	0.04	2.110	2.490
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSIO	21350	2560	20.21	20.90	1.172	-	-	-0.18	2.150	2.520
	LTE Band 7	20M	QPSK	100	0	-	Left Side	0mm	Ant 3	DSIO	21100	2535	20.26	20.90	1.159	-	-	-0.07	2.050	2.375
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	21100	2535	20.36	20.90	1.132	-	-	0.01	2.440	2.763
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI5	21100	2535	18.86	19.40	1.132	-	-	0.09	1.760	1.993
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	40620	2593	22.25	22.80	1.135	62.9	1.006	-0.07	2.250	2.569



FCC SAR Test Report

Report No. : FA460505

	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	39750	2506	22.04	22.80	1.191	62.9	1.006	0.08	2.020	2.421
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	40185	2549.5	22.07	22.80	1.183	62.9	1.006	0.15	2.070	2.464
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	41055	2636.5	22.17	22.80	1.156	62.9	1.006	-0.11	2.340	2.722
109	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	41490	2680	22.16	22.80	1.159	62.9	1.006	0.01	2.630	3.066
	LTE Band 41C	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	41490+41292	2680+2660.2	22.02	22.80	1.197	62.9	1.006	0.01	2.410	2.901
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSIO	40620	2593	21.83	22.80	1.250	62.9	1.006	-0.05	1.880	2.365
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSIO	39750	2506	22.13	22.80	1.167	62.9	1.006	-0.05	1.710	2.007
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSIO	40185	2549.5	21.76	22.80	1.271	62.9	1.006	-0.11	1.740	2.224
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSIO	41055	2636.5	21.74	22.80	1.276	62.9	1.006	0.03	1.960	2.517
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	DSIO	41490	2680	21.71	22.80	1.285	62.9	1.006	0.05	2.150	2.780
	LTE Band 41	20M	QPSK	100	0	-	Left Side	0mm	Ant 3	DSIO	40620	2593	21.73	22.80	1.279	62.9	1.006	-0.14	1.880	2.420
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	41490	2680	23.85	24.40	1.135	42.9	1.009	0.07	2.580	2.955
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSIO	41490+41292	2680+2660.2	23.59	24.40	1.205	42.9	1.009	0.07	2.410	2.930
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI5	41490	2680	20.16	20.80	1.159	62.9	1.006	-0.05	1.660	1.935
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI5	41490	2680	21.85	22.40	1.135	42.9	1.009	0.06	1.630	1.867
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 3	DSIO	507000	2535	20.77	21.80	1.268	-	-	-0.19	1.330	1.686
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 3	DSIO	507000	2535	20.65	21.80	1.303	-	-	0.17	1.300	1.694
110	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 3	DSIO	507000	2535	20.77	21.80	1.268	-	-	0.08	2.400	3.042
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	0mm	Ant 3	DSIO	507000	2535	20.65	21.80	1.303	-	-	0.03	2.310	3.010
	FR1 n7	40M	QPSK	216	0	DFT-SCS-15KHz	Left Side	0mm	Ant 3	DSIO	507000	2535	20.36	21.80	1.393	-	-	0.12	1.920	2.675
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSIO	507000	2535	20.77	21.80	1.268	-	-	-0.17	0.884	1.121
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 3	DSIO	507000	2535	20.65	21.80	1.303	-	-	-0.17	0.902	1.175
	FR1 n7 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 3	DSIO	507000	2535	20.77	21.80	1.268	-	-	0.09	2.260	2.865
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	0mm	Ant 3	DSI5	507000	2535	18.80	19.80	1.259	-	-	-0.01	1.510	1.901
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	518598	2592.99	19.78	20.80	1.265	-	-	0.06	2.400	3.035
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	518598	2592.99	19.61	20.80	1.315	-	-	-0.13	2.090	2.749
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	518598	2592.99	19.37	20.80	1.390	-	-	-0.17	1.720	2.391
	FR1 n41 PC2 Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	518598	2592.99	19.78	20.80	1.265	-	-	0.06	2.220	2.808
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSI5	518598	2592.99	17.78	18.80	1.265	-	-	0.06	1.510	1.910
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 0	DSIO	518598	2592.99	21.21	22.00	1.199	-	-	0.02	1.220	1.463
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 0	DSIO	509202	2546.01	21.13	22.00	1.222	-	-	0.01	1.020	1.246
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 0	DSIO	528000	2640	21.12	22.00	1.225	-	-	0.09	1.090	1.335
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 0	DSIO	518598	2592.99	21.12	22.00	1.225	-	-	0.01	1.130	1.384
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 0	DSIO	518598	2592.99	21.21	22.00	1.199	-	-	-0.16	0.994	1.192
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 0	DSIO	518598	2592.99	21.12	22.00	1.225	-	-	-0.12	0.929	1.138
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	DSIO	518598	2592.99	19.35	20.40	1.274	-	-	0.04	1.790	2.280
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 5	DSIO	518598	2592.99	19.32	20.40	1.282	-	-	-0.09	1.800	2.308
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 5	DSIO	518598	2592.99	19.21	20.40	1.315	-	-	0	1.370	1.802
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 5	DSIO	518598	2592.99	19.35	20.40	1.274	-	-	0.09	2.410	3.069
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 5	DSIO	518598	2592.99	19.32	20.40	1.282	-	-	0.11	2.310	2.962
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	0mm	Ant 5	DSIO	518598	2592.99	19.21	20.40	1.315	-	-	0.14	1.790	2.354
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 5	DSI5	518598	2592.99	17.35	18.40	1.274	-	-	0.06	1.520	1.936
111	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	518598	2592.99	19.22	20.30	1.282	-	-	0.01	2.400	3.078
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	518598	2592.99	19.17	20.30	1.297	-	-	0.03	2.010	2.607
	FR1 n41 PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	518598	2592.99	19.08	20.30	1.324	-	-	0.09	1.880	2.490
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSI5	518598	2592.99	17.25	18.30	1.274	-	-	-0.08	1.510	1.923
3500MHz																				
112	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	641666	3624.99	21.22	22.30	1.282	-	-	-0.01	2.050	2.629
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	638000	3570	21.14	22.30	1.306	-	-	0.12	1.920	2.508
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	645332	3679.98	21.11	22.30	1.315	-	-	0.08	1.880	2.473
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	641666	3624.99	21.09	22.30	1.321	-	-	0.02	1.920	2.537
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	638000	3570	21.07	22.30	1.327	-	-	-0.17	1.750	2.323
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	645332	3679.98	21.07	22.30	1.327	-	-	-0.03	1.710	2.270
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	641666	3624.99	20.91	22.30	1.377	-	-	-0.11	1.850	2.548
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 4	DSIO	641666	3624.99	21.22	22.30	1.282	-	-	0.18	1.530	1.962



FCC SAR Test Report

Report No. : FA460505

	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	0mm	Ant 4	DSIO	641666	3624.99	21.09	22.30	1.321	-	-	0.16	1.440	1.903
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSI5	641666	3624.99	19.72	20.80	1.282	-	-	0.06	1.450	1.859
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	656000	3840	22.26	23.20	1.242	-	-	0.12	1.180	1.465
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	656000	3840	22.19	23.20	1.262	-	-	-0.03	1.660	2.095
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	656000	3840	21.97	23.20	1.327	-	-	0.11	1.210	1.606
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 4	DSIO	656000	3840	22.26	23.20	1.242	-	-	0.11	1.610	1.999
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 4	DSIO	656000	3840	22.19	23.20	1.262	-	-	-0.06	1.120	1.413
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 4	DSI5	656000	3840	20.69	21.70	1.262	-	-	0.02	1.180	1.489
113	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	633334	3500.01	21.81	23.20	1.377	-	-	-0.04	2.040	2.810
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	633334	3500.01	21.77	23.20	1.390	-	-	-0.19	1.830	2.544
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	633334	3500.01	21.50	23.20	1.479	-	-	-0.03	1.500	2.219
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 4	DSIO	633334	3500.01	21.81	23.20	1.377	-	-	-0.08	1.540	2.121
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 4	DSIO	633334	3500.01	21.77	23.20	1.390	-	-	0.1	1.420	1.974
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 4	DSIO	633334	3500.01	21.50	23.20	1.479	-	-	0.15	1.100	1.627
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSI5	633334	3500.01	20.31	21.70	1.377	-	-	0.06	1.450	1.997
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	641666	3624.99	22.02	23.20	1.312	-	-	0.07	1.920	2.519
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	641666	3624.99	21.95	23.20	1.334	-	-	0.13	1.750	2.334
	FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 4	DSIO	641666	3624.99	21.74	23.20	1.400	-	-	-0.04	1.630	2.281
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 4	DSI5	641666	3624.99	20.52	21.70	1.312	-	-	0.06	1.360	1.785
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 2	DSIO	656000	3840	22.92	23.60	1.169	-	-	0.01	1.710	2.000
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 2	DSIO	656000	3840	22.86	23.60	1.186	-	-	-0.09	1.410	1.672
	FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Front	0mm	Ant 2	DSIO	656000	3840	22.64	23.60	1.247	-	-	0.05	1.210	1.509
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 2	DSIO	656000	3840	22.92	23.60	1.169	-	-	0.13	1.390	1.626
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 2	DSIO	656000	3840	22.86	23.60	1.186	-	-	0	1.090	1.292
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	DSIO	656000	3840	18.31	18.90	1.146	-	-	0.14	0.639	0.732
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	DSIO	656000	3840	18.23	18.90	1.167	-	-	-0.01	0.580	0.677
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	656000	3840	18.31	18.90	1.146	-	-	0.09	1.190	1.363
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	656000	3840	18.23	18.90	1.167	-	-	0.07	0.827	0.965
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	DSIO	633334	3500.01	18.01	18.90	1.227	-	-	0.02	0.490	0.601
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	DSIO	633334	3500.01	17.91	18.90	1.256	-	-	-0.03	0.425	0.534
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	633334	3500.01	18.01	18.90	1.227	-	-	0.09	1.190	1.461
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	633334	3500.01	17.91	18.90	1.256	-	-	-0.1	0.868	1.090
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	DSIO	641666	3624.99	18.15	18.90	1.189	-	-	0.02	0.949	1.128
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	DSIO	641666	3624.99	18.05	18.90	1.216	-	-	0.16	0.857	1.042
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	641666	3624.99	18.15	18.90	1.189	-	-	0.01	2.100	2.496
	FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	641666	3624.99	18.05	18.90	1.216	-	-	-0.04	1.690	2.055
	FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSIO	641666	3624.99	17.78	18.90	1.294	-	-	0.13	1.770	2.291
	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 3	DSI5	641666	3624.99	16.65	17.40	1.189	-	-	0.09	1.490	1.771
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	0mm	Ant 6	DSIO	656000	3840	19.55	20.10	1.135	-	-	0.1	0.910	1.033
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	0mm	Ant 6	DSIO	656000	3840	19.53	20.10	1.140	-	-	0.04	0.721	0.822
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 6	DSIO	656000	3840	19.55	20.10	1.135	-	-	-0.18	1.010	1.146
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 6	DSIO	656000	3840	19.53	20.10	1.140	-	-	-0.11	0.886	1.010
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	656000	3840	19.55	20.10	1.135	-	-	-0.04	1.670	1.895
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	656000	3840	19.53	20.10	1.140	-	-	-0.15	1.450	1.653
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 6	DSIO	633334	3500.01	19.62	20.10	1.117	-	-	-0.04	1.050	1.173
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 6	DSIO	633334	3500.01	19.54	20.10	1.138	-	-	-0.05	1.170	1.331
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	633334	3500.01	19.62	20.10	1.117	-	-	0.08	2.300	2.569



FCC SAR Test Report

Report No. : FA460505

FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	633334	3500.01	19.54	20.10	1.138	-	-	-0.13	2.010	2.287
FR1 n77 Part 27Q PC2	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	633334	3500.01	19.44	20.10	1.164	-	-	-0.01	1.730	2.014
FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	633334	3500.01	17.62	18.10	1.117	-	-	0.02	1.450	1.619
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	641666	3624.99	19.01	20.10	1.285	-	-	0.07	2.180	2.802
FR1 n77 Part 96 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	641666	3624.99	18.95	20.10	1.303	-	-	-0.03	1.880	2.450
FR1 n77 Part 96 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	641666	3624.99	18.88	20.10	1.324	-	-	0.07	1.910	2.529
FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSIO	641666	3624.99	17.01	18.10	1.285	-	-	0.01	1.380	1.774

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
2450MHz																
114	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 7+9(7)	Full Power	11	2462	19.46	21.00	1.426	98.35	1.017	0.06	1.950	2.827
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 7+9(9)	Full Power	1	2412	18.30	20.00	1.479	98.35	1.017	0.01	1.650	2.482
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 7+9(9)	Full Power	6	2437	17.70	19.50	1.514	98.35	1.017	-0.18	1.440	2.217
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 7+9(9)	Standalone DBS only	11	2462	16.64	18.00	1.368	98.35	1.017	0.1	1.030	1.433
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 7+9(7)	Simultaneous Non DBS	11	2462	14.18	15.50	1.355	98.35	1.017	0.12	0.618	0.852
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 7+9(9)	Simultaneous DBS	11	2462	11.92	13.50	1.439	98.35	1.017	0.08	0.301	0.440
5000MHz																
115	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 8+10(10)	Full Power	48	5240	19.21	21.00	1.510	99.32	1.007	0.02	1.810	2.753
	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 8+10(10)	Full Power	36	5180	18.75	20.50	1.496	99.32	1.007	0.02	1.610	2.426
	WLAN5.2GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 8+10(8)	Standalone DBS only	42	5210	16.91	18.50	1.442	100	1.000	0.01	1.090	1.572
	WLAN5.2GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 8+10(10)	Simultaneous Non DBS	50	5250	14.80	16.50	1.479	100	1.000	0.01	0.662	0.979
	WLAN5.2GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 8+10(10)	Simultaneous DBS	50	5250	11.96	13.50	1.426	100	1.000	-0.03	0.339	0.483
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 8+10(10)	Full Power	64	5320	18.68	20.50	1.521	99.32	1.007	0.01	0.707	1.083
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 8+10(10)	Full Power	64	5320	18.68	20.50	1.521	99.32	1.007	0.1	1.320	2.021
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 8+10(8)	Full Power	56	5280	19.56	21.50	1.561	99.32	1.007	-0.17	1.170	1.840
	WLAN5.3GHz	802.11a 6Mbps	Left Side	0mm	Ant 8+10(10)	Full Power	64	5320	18.68	20.50	1.521	99.32	1.007	-0.08	0.143	0.219
116	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 8+10(10)	Full Power	64	5320	18.68	20.50	1.521	99.32	1.007	-0.02	1.790	2.741
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 8+10(8)	Full Power	56	5280	19.56	21.50	1.561	99.32	1.007	0.05	1.310	2.060
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 8+10(10)	Full Power	64	5320	18.68	20.50	1.521	99.32	1.007	-0.08	1.190	1.822
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 8+10(8)	Standalone DBS only	50	5250	16.58	18.50	1.556	100	1.000	-0.05	0.955	1.486
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 8+10(10)	Simultaneous Non DBS	50	5250	14.80	16.50	1.479	100	1.000	-0.08	0.665	0.984
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Ant 8+10(10)	Simultaneous DBS	50	5250	11.96	13.50	1.426	100	1.000	0.16	0.342	0.488
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 8+10(8)	Full Power	144	5720	19.63	21.50	1.536	99.32	1.007	0.07	0.553	0.856
117	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 8+10(8)	Full Power	144	5720	19.63	21.50	1.536	99.32	1.007	-0.08	1.580	2.445
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 8+10(10)	Full Power	116	5580	18.73	20.50	1.503	99.32	1.007	0.02	1.390	2.104
	WLAN5.5GHz	802.11a 6Mbps	Left Side	0mm	Ant 8+10(8)	Full Power	144	5720	19.63	21.50	1.536	99.32	1.007	0.07	0.099	0.153
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 8+10(8)	Full Power	144	5720	19.63	21.50	1.536	99.32	1.007	-0.18	0.574	0.888
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 8+10(8)	Full Power	144	5720	19.63	21.50	1.536	99.32	1.007	0.03	0.891	1.379
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 8+10(8)	Standalone DBS only	114	5570	16.93	18.50	1.435	100	1.000	-0.15	0.891	1.279
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 8+10(10)	Simultaneous Non DBS	114	5570	14.78	16.50	1.486	100	1.000	0.11	0.622	0.924
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 8+10(8)	Simultaneous DBS	114	5570	12.50	14.00	1.413	100	1.000	-0.15	0.317	0.448
118	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 8+10(8)	Full Power	149	5745	19.62	21.50	1.540	99.32	1.007	0.06	1.670	2.590
	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 8+10(8)	Full Power	165	5825	19.64	21.50	1.533	99.32	1.007	-0.13	1.390	2.146
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 8+10(8)	Standalone DBS only	155	5775	15.81	17.50	1.476	100	1.000	0.18	0.845	1.247
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 8+10(8)	Simultaneous Non DBS	155	5775	14.75	16.50	1.496	100	1.000	-0.04	0.601	0.899
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 8+10(8)	Simultaneous DBS	155	5775	11.43	13.00	1.435	100	1.000	-0.08	0.315	0.452



FCC SAR Test Report

Report No. : FA460505

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 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI2	23330	793	21.72	22.40	1.169	-	-	-0.03	0.903	1	1.056
2nd	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI2	23330	793	21.72	22.40	1.169	-	-	0.01	0.812	1.112	0.950
1st	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	166300	831.5	20.86	22.00	1.300	-	-	-0.18	0.833	1	1.083
2nd	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI2	166300	831.5	20.86	22.00	1.300	-	-	-0.03	0.824	1.011	1.071
1st	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI2	376500	1882.5	18.79	19.60	1.205	-	-	-0.03	0.868	1	1.046
2nd	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI2	376500	1882.5	18.79	19.60	1.205	-	-	0.09	0.852	1.019	1.027
1st	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	27710	2310	15.48	16.20	1.180	-	-	-0.01	0.895	1	1.056
2nd	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI2	27710	2310	15.48	16.20	1.180	-	-	0.06	0.867	1.032	1.023
1st	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	518598	2592.99	16.29	17.10	1.205	-	-	0.02	0.900	1	1.085
2nd	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI2	518598	2592.99	16.29	17.10	1.205	-	-	0.06	0.879	1.024	1.059
1st	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	641666	3624.99	15.21	15.90	1.172	-	-	0.02	0.852	1	0.999
2nd	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	641666	3624.99	15.21	15.90	1.172	-	-	0.04	0.822	1.036	0.964
1st	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	638000	3570	15.15	15.90	1.189	-	-	-0.06	0.908	1	1.079
2nd	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI2	638000	3570	15.15	15.90	1.189	-	-	0.07	0.869	1.045	1.033
1st	WLAN5.3GHz	-	-	-	-	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(10)	Standalone Non DBS	50	5250	14.80	16.50	1.479	100	1.000	-0.01	0.801	1	1.185
2nd	WLAN5.3GHz	-	-	-	-	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(10)	Standalone Non DBS	50	5250	14.80	16.50	1.479	100	1.000	0.03	0.789	1.015	1.167
1st	WLAN5.5GHz	-	-	-	-	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(10)	Standalone Non DBS	114	5570	15.37	17.00	1.455	100	1.000	-0.06	0.823	1	1.198
2nd	WLAN5.5GHz	-	-	-	-	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 8+10(10)	Standalone Non DBS	114	5570	15.37	17.00	1.455	100	1.000	-0.01	0.814	1.011	1.185
1st	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI1	132572	1770	21.32	22.10	1.197	-	-	0.05	0.896	1	1.072
2nd	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI1	132572	1770	21.32	22.10	1.197	-	-	0.07	0.859	1.043	1.028

<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	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI0	132322	1745	22.95	23.60	1.161	-	-	0.01	2.330	1	2.706
2nd	LTE Band 66	20M	QPSK	1	0	-	Left Side	0mm	Ant 2	DSI0	132322	1745	22.95	23.60	1.161	-	-	0.07	2.260	1.031	2.625
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSI0	9538	1907.6	22.90	23.20	1.072	-	-	0.07	2.500	1	2.679
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 2	DSI0	9538	1907.6	22.90	23.20	1.072	-	-	0.01	2.420	1.033	2.593
1st	LTE Band 30	10M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI0	27710	2310	19.51	20.40	1.227	-	-	0.01	2.490	1	3.056
2nd	LTE Band 30	10M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI0	27710	2310	19.51	20.40	1.227	-	-	0.08	2.370	1.051	2.909
1st	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI0	41490	2680	22.16	22.80	1.159	62.9	1.006	0.01	2.630	1	3.066
2nd	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	DSI0	41490	2680	22.16	22.80	1.159	62.9	1.006	-0.03	2.540	1.035	2.961
1st	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSI0	633334	3500.01	19.62	20.10	1.117	-	-	0.08	2.300	1	2.569
2nd	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSI0	633334	3500.01	19.62	20.10	1.117	-	-	0.02	2.230	1.031	2.491
1st	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSI0	641666	3624.99	19.01	20.10	1.285	-	-	0.07	2.180	1	2.802
2nd	FR1 n77 Part 96 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 6	DSI0	641666	3624.99	19.01	20.10	1.285	-	-	0.07	1.950	1.118	2.506

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
- 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.
- 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.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.



15.6 TDD LTE Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

LTE B41-Linearity Data for Head Ant 3_DS12		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	18.70	20.30
Reported 1g SAR (W/kg)	1.020	1.073
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	46.92	46.40
Linearity SAR (W/kg)	1.009	
% deviation from expected linearity		6.39%
LTE B41-Linearity Data for Body-worn Ant 3		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	22.80	24.40
Reported 1g SAR (W/kg)	0.357	0.325
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	120.62	119.26
Linearity SAR (W/kg)	0.353	
% deviation from expected linearity		-7.93%
LTE B41-Linearity Data for Hotspot Ant 3_DS11		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	21.30	22.90
Reported 1g SAR (W/kg)	1.070	1.087
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	85.39	84.43
Linearity SAR (W/kg)	1.058	
% deviation from expected linearity		2.75%
LTE B41-Linearity Data for Hotspot Ant 3_DS14		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	19.80	21.40
Reported 1g SAR (W/kg)	0.757	0.770
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	60.45	59.77
Linearity SAR (W/kg)	0.748	
% deviation from expected linearity		2.88%


FCC SAR Test Report
Report No. : FA460505

LTE B41-Linearity Data for Extremity Ant 3_DSI0		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	22.80	24.40
Reported 10g SAR (W/kg)	3.066	2.955
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	120.62	119.26
Linearity SAR (W/kg)	3.031	
% deviation from expected linearity		-2.52%
LTE B41-Linearity Data for Extremity Ant 3_DSI5		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	20.80	22.40
Reported 10g SAR (W/kg)	1.935	1.867
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	76.10	75.25
Linearity SAR (W/kg)	1.913	
% deviation from expected linearity		-2.42%



16. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WLAN2.4GHz+ Bluetooth	Yes	Yes	Yes	Yes
2.	WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
3.	WLAN6GHz+ Bluetooth	Yes	Yes		Yes
4.	WLAN2.4GHz+ WLAN5GHz	Yes	Yes	Yes	Yes
5.	WLAN2.4GHz+ WLAN6GHz	Yes	Yes		Yes
6.	WLAN2.4GHz+ WLAN5GHz + Bluetooth	Yes	Yes	Yes	Yes
7.	WLAN2.4GHz+ WLAN6GHz + Bluetooth	Yes	Yes		Yes
8.	WWAN + WLAN2.4GHz+ Bluetooth	Yes	Yes	Yes	Yes
9.	WWAN + WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
10.	WWAN + WLAN6GHz+ Bluetooth	Yes	Yes		Yes
11.	WWAN + WLAN2.4GHz+ WLAN5GHz	Yes	Yes	Yes	Yes
12.	WWAN + WLAN2.4GHz+ WLAN6GHz	Yes	Yes		Yes
13.	WWAN + WLAN2.4GHz+ WLAN5GHz + Bluetooth	Yes	Yes	Yes	Yes
14.	WWAN + WLAN2.4GHz+ WLAN6GHz + Bluetooth	Yes	Yes		Yes
15.	WLAN2.4GHz+ Bluetooth + NFC				Yes
16.	WLAN5GHz+ Bluetooth + NFC				Yes
17.	WLAN6GHz+ Bluetooth + NFC				Yes
18.	WLAN2.4GHz+ WLAN5GHz + NFC				Yes
19.	WLAN2.4GHz+ WLAN6GHz + NFC				Yes
20.	WLAN2.4GHz+ WLAN5GHz + Bluetooth + NFC				Yes
21.	WLAN2.4GHz+ WLAN6GHz + Bluetooth + NFC				Yes
22.	WWAN + WLAN2.4GHz+ Bluetooth + NFC				Yes
23.	WWAN + WLAN5GHz+ Bluetooth + NFC				Yes
24.	WWAN + WLAN6GHz+ Bluetooth + NFC				Yes
25.	WWAN + WLAN2.4GHz+ WLAN5GHz + NFC				Yes
26.	WWAN + WLAN2.4GHz+ WLAN6GHz + NFC				Yes
27.	WWAN + WLAN2.4GHz+ WLAN5GHz + Bluetooth + NFC				Yes
28.	WWAN + WLAN2.4GHz+ WLAN6GHz + Bluetooth + NFC				Yes
29.	WLAN2.4GHz+ Bluetooth + NFC				Yes
30.	WLAN5GHz+ Bluetooth + NFC				Yes
With RFID					
31.	RFID + WLAN2.4GHz+ Bluetooth		Yes	Yes	Yes
32.	RFID + WLAN5GHz+ Bluetooth		Yes	Yes	Yes
33.	RFID + WLAN6GHz+ Bluetooth		Yes		Yes
34.	RFID + WLAN2.4GHz+ WLAN5GHz		Yes	Yes	Yes
35.	RFID + WLAN2.4GHz+ WLAN6GHz		Yes		Yes
36.	RFID + WLAN2.4GHz+ WLAN5GHz + Bluetooth		Yes	Yes	Yes
37.	RFID + WLAN2.4GHz+ WLAN6GHz + Bluetooth		Yes		Yes
38.	WWAN + RFID + WLAN2.4GHz+ Bluetooth		Yes	Yes	Yes
39.	WWAN + RFID + WLAN5GHz+ Bluetooth		Yes	Yes	Yes
40.	WWAN + RFID + WLAN6GHz+ Bluetooth		Yes		Yes
41.	WWAN + RFID + WLAN2.4GHz+ WLAN5GHz		Yes	Yes	Yes
42.	WWAN + RFID + WLAN2.4GHz+ WLAN6GHz		Yes		Yes
43.	WWAN + RFID + WLAN2.4GHz+ WLAN5GHz + Bluetooth		Yes	Yes	Yes
44.	WWAN + RFID + WLAN2.4GHz+ WLAN6GHz + Bluetooth		Yes		Yes
45.	RFID + WLAN2.4GHz+ Bluetooth + NFC				Yes
46.	RFID + WLAN5GHz+ Bluetooth + NFC				Yes
47.	RFID + WLAN6GHz+ Bluetooth + NFC				Yes
48.	RFID + WLAN2.4GHz+ WLAN5GHz + NFC				Yes
49.	RFID + WLAN2.4GHz+ WLAN6GHz + NFC				Yes



FCC SAR Test Report

Report No. : FA460505

50.	RFID + WLAN2.4GHz+ WLAN5GHz + Bluetooth + NFC				Yes
51.	RFID + WLAN2.4GHz+ WLAN6GHz + Bluetooth + NFC				Yes
52.	WWAN + RFID + WLAN2.4GHz+ Bluetooth + NFC				Yes
53.	WWAN + RFID + WLAN5GHz+ Bluetooth + NFC				Yes
54.	WWAN + RFID + WLAN6GHz+ Bluetooth + NFC				Yes
55.	WWAN + RFID + WLAN2.4GHz+ WLAN5GHz + NFC				Yes
56.	WWAN + RFID + WLAN2.4GHz+ WLAN6GHz + NFC				Yes
57.	WWAN + RFID + WLAN2.4GHz+ WLAN5GHz + Bluetooth + NFC				Yes
58.	WWAN + RFID + WLAN2.4GHz+ WLAN6GHz + Bluetooth + NFC				Yes

General Note:

1. This device supports VoIP in WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands and EN-DC combination.
3. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO/MIMO antenna mode and MIMO SAR can represent SISO SAR.
4. EUT will choose each WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
5. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
6. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
7. 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 WLAN supports WLAN Direct (GC only).
8. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
9. According to the EUT characteristic, WLAN 2.4GHz Chain 0 and Bluetooth share the same antenna path and cannot transmit simultaneously, WLAN 2.4GHz Chain 1 and Bluetooth can transmit simultaneously.
10. According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
11. According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously.
12. NFC can transmit simultaneously with other Radios in extremity exposure condition.
13. For standalone WWAN, always choose the highest SAR among the selected WWAN bands within the selected antenna for head each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.
14. The maximum SAR summation is calculated based on the same configuration and test position.
15. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{separation distance, mm})$, 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.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
16. The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results. The simultaneous transmission and test exemption analysis were compliant with KDB 447498 D01. For the device does not support FR2 or other MPE field measurement, therefore section 16 in the SAR report has no TER analysis according to KDB 987594 requirement.



16.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by Qualcomm® Smart Transmit, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

Smart Transmit current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x%, then the exposure margin left for 5G NR is capped to (100-x)%. Thus, the compliance equation for LTE + 5G NR is

$$x\% * A + (100-x)\% * B \leq 1.0,$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR (i.e. SAR exposure for 5G FR1), and $B \leq 1.0$.

Let C = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x\% * A + (100-x)\% * B + C \leq 1.0 \quad (1)$$

$$x\% * A + (100-x)\% * B \leq x\% * \max(A, B) + (100-x)\% * \max(A, B) \leq \max(A, B)$$

$$x\% * A + (100-x)\% * B + C \leq \max(A, B) + C \leq 1.0 \quad (2)$$

If $A + C \leq 1.0$ and $B + C \leq 1.0$ can be proven, then " $x\% * A + (100-x)\% * B + C \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1

Else, if $A + C > 1.0$ and/or $B + C > 1.0$, then the followings need to hold true for compliance:

- i. A and C are decoupled based on the SPLSR criteria, and
- ii. $(100-x)\% * B + C \leq 1.0$, and
- iii. $x\% * A + (100-x)\% * B \leq 1.0$

Note iii. is covered in Part 2 report; i. and ii. should be addressed in Part 2 report.

Above analysis is also apply to LTE inter-band uplink, LTE1 + LTE2 + WLAN + BT simultaneous transmission, so inter-band uplink CA no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of LTE + WLAN + BT < 1.



16.2 MIMO SAR Test condition and verification

General Note:

- Smart Transmit EFS v20 (or lower) uses SISO Plimit to calculate RF exposure from MIMO transmission scenario. Therefore, if MIMO is supported for WWAN technologies (including 5G sub6 NR), below procedure should be performed for validity of Smart Transmit operation:
 - Below procedure should also be performed for Smart Transmit EFS v21 (or higher) if MIMO Plimit is not populated in the EFS but MIMO operation is supported for antennas belonging to the same antenna group (refer to Section 4.2.5 of Qualcomm's document 80-W2112-4).
- Measure SAR for supported MIMO scenarios in FTM mode with each of the MIMO antennas set to transmit continuously at $P_{test} = \text{minimum} \{P_{limit}(i), P_{max}(i); i=1 \text{ to } n \text{ MIMO antennas}\}$, where $P_{limit}(i)$ is the power level entered in the Smart Transmit EFS for antenna i under the corresponding tech/band/DSI. For Smart Transmit to ensure the compliance in MIMO transmission scenario, the below criteria should be met for measured MIMO SAR (i.e., highest peak spatial-average SAR from the measurement):

$$\text{reported } SAR_{MIMO} = \text{Measured MIMO } SAR_{MIMO} \text{ at } (P_{test} + \text{device total uncertainty}) \leq \text{calc. SAR}$$

$$\text{Where } \text{calc. SAR} = \sum_{i=1}^n \left[SAR_{design_target} * 10^{\left(\frac{\text{total uncertainty} + P_{test} - P_{limit}(i) - \text{backoff}(i)}{10} \right)} \right]$$

Here,

- n is number of MIMO antennas (in case of 2x2MIMO, $n=2$).
 - $P_{limit}(i)$ is EFS P_{limit} for antenna $i \in$ MIMO for a given tech/band/DSI. P_{limit} corresponds to SAR_{design_target} .
 - $\text{backoff}(i)$ is backoff from SAR_{design_target} used for the i th antenna's P_{limit} to meet TER with external radios (i.e., radios outside of Smart Transmit control). If EFS P_{limit} of antenna i corresponds to SAR_{design_target} , then $\text{backoff}(i) = 0$ in the above equation.
 - P_{test} (i.e., power level used for MIMO SAR measurement, $\text{MIMO.SAR} @ P_{test}$) = $\min \{P_{limit}(i), P_{max}(i), i = 1 \text{ to } n \text{ MIMO antenna}\}$. To further clarify, $P_{test} = \min \{P_{limit}(i), SISO.P_{max}(i), MIMO.P_{max}, i = 1 \text{ to } n \text{ antenna} \in \text{MIMO}\}$, where, P_{limit} corresponds to SAR_{design_target} ; $SISO.P_{max}$ and $MIMO.P_{max}$ correspond to the maximum output power (nominal levels without device uncertainty) that device is capable; here, P_{test} is nominal power level, not measured level.
- If the $\text{reported } SAR_{MIMO}$ does not meet the above condition, then $P_{limit}(i)$ for each of the MIMO antenna in the Smart Transmit EFS should be reduced by $10 * \log_{10} [\text{reported } SAR_{MIMO} / \text{calc. SAR}]$ dB.
 - Per Qualcomm's document guideline, 5GNR FR1 MIMO Plimit is not populated in the EFS file, but MIMO operation is supported for antennas belonging to the same antenna group, the detail 5GNR FR1 MIMO analysis results please referred to appendix H.



16.3 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		WWAN	WLAN2.4GHz Ant 9 Standalone Non DBS	WLAN2.4GHz Ant 9 Standalone Non DBS only	WLAN2.4GHz Ant 9 Simultaneous Non DBS	WLAN2.4GHz Ant 9 Simultaneous Non DBS	WLAN2.4GHz Ant 7+9 Standalone Non DBS	WLAN2.4GHz Ant 7+9 Standalone Non DBS only	WLAN2.4GHz Ant 7+9 Simultaneous Non DBS	WLAN2.4GHz Ant 7+9 Simultaneous Non DBS	WLAN5GHz Ant 8+10 Standalone Non DBS	WLAN5GHz Ant 8+10 Standalone Non DBS only	WLAN5GHz Ant 8+10 Simultaneous Non DBS	WLAN5GHz Ant 8+10 Simultaneous Non DBS	Bluetooth Ant 7	WLAN6GHz Ant 8+10 Standalone Non DBS	WLAN6GHz Ant 8+10 Standalone Non DBS only	WLAN6GHz Ant 8+10 Simultaneous Non DBS	WLAN6GHz Ant 8+10 Simultaneous Non DBS
		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)	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)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Right Cheek	1.095	1.092	0.545	0.351	0.179	1.104	0.566	0.393	0.192	0.704	0.596	0.381	0.198	0.062	0.533	0.567	0.382	0.197
	Right Tilted	0.995	0.087	0.545	0.351	0.179	0.886	0.566	0.393	0.192	0.458	0.596	0.381	0.198	0.072	0.675	0.567	0.382	0.197
	Left Cheek	1.092	0.441	0.545	0.351	0.179	1.052	0.566	0.393	0.192	1.198	0.596	0.381	0.198	0.113	0.978	0.567	0.382	0.197
	Left Tilted	0.788	0.128	0.545	0.351	0.179	1.045	0.566	0.393	0.192	0.873	0.596	0.381	0.198	0.106	0.790	0.567	0.382	0.197

WWAN Band	Exposure Position	2+14	10+14	15+14	7+11	7+16	3+11+14	3+16+14	1+8	1+12+14	1+17+14	1+4+14	1+9+13	1+9+18	1+5+13+14	1+5+18+14
		Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
All Bands	Right Cheek	1.15	0.77	0.60	1.16	1.13	1.20	1.17	1.49	1.54	1.54	1.51	1.49	1.48	1.53	1.53
	Right Tilted	0.16	0.53	0.75	1.16	1.13	1.21	1.18	1.39	1.45	1.45	1.42	1.39	1.38	1.44	1.44
	Left Cheek	0.55	1.31	1.09	1.16	1.13	1.25	1.23	1.49	1.59	1.56	1.48	1.48	1.48	1.58	1.58
	Left Tilted	0.23	0.98	0.90	1.16	1.13	1.25	1.22	1.18	1.28	1.28	1.25	1.18	1.18	1.27	1.27

16.4 Hotspot Exposure Conditions

<RFID On>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		WWAN	WLAN2.4GHz Ant 9 Standalone Non DBS	WLAN2.4GHz Ant 9 Standalone DBS only	WLAN2.4GHz Ant 9 Simultaneous Non DBS	WLAN2.4GHz Ant 9 Simultaneous DBS	WLAN2.4GHz Ant 7+9 Standalone Non DBS	WLAN2.4GHz Ant 7+9 Standalone DBS only	WLAN2.4GHz Ant 7+9 Simultaneous Non DBS	WLAN2.4GHz Ant 7+9 Simultaneous DBS	WLAN5GHz Ant 8+10 Standalone Non DBS	WLAN5GHz Ant 8+10 Standalone DBS only	WLAN5GHz Ant 8+10 Simultaneous Non DBS	WLAN5GHz Ant 8+10 Simultaneous DBS	Bluetooth Ant 7	RFID
		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)	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	Front	0.797	0.312	0.585	0.386	0.189	0.424	0.540	0.369	0.196	0.489	0.596	0.387	0.191	0.002	0.284
	Back	0.797	0.511	0.585	0.386	0.189	0.649	0.540	0.369	0.196	1.170	0.596	0.387	0.191	0.020	0.171
	Left side	0.797	0.112	0.585	0.386	0.189	0.147	0.540	0.369	0.196	0.188	0.596	0.387	0.191	0.002	0.089
	Right side	0.797	0.679	0.585	0.386	0.189	0.733	0.540	0.369	0.196	0.645	0.596	0.387	0.191	0.002	0.032
	Top side	0.797		0.585	0.386	0.189	1.077	0.540	0.369	0.196	0.667	0.596	0.387	0.191	0.041	0.228
	Bottom side	0.797	0.001	0.585	0.386	0.189										

WWAN Band	Exposure Position	2+14+15	10+14+15	7+11+15	3+11+14+15	1+8+15	1+12+14+15	1+4+14+15	1+9+13+15	1+5+13+14+15	6+15	1+14+15
		Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
All Bands	Front	0.60	0.78	1.42	1.47	1.45	1.47	1.47	1.47	1.46	0.71	1.08
	Back	0.70	1.36	1.31	1.37	1.34	1.38	1.37	1.36	1.37	0.82	0.99
	Left side	0.20	0.28	1.23	1.27	1.26	1.28	1.27	1.27	1.27	0.24	0.89
	Right side	0.71	0.68	1.17	1.22	1.20	1.22	1.22	1.22	1.21	0.77	0.83
	Top side	0.27	0.94	1.36	1.45	1.39	1.45	1.45	1.41	1.45	1.31	1.07
	Bottom side	0.00	0.00	0.00	0.59	0.80	0.80	1.18	0.80	0.99	0.00	0.80



FCC SAR Test Report

Report No. : FA460505

<RFID Off>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14
All Bands(Ant0&2&3&4&5&6)	Front	1.076	0.312	0.585	0.386	0.189	0.424	0.540	0.369	0.196	0.489	0.596	0.387	0.191	0.002
	Back	1.085	0.511	0.585	0.386	0.189	0.649	0.540	0.369	0.196	1.170	0.596	0.387	0.191	0.020
	Left side	1.094	0.112	0.585	0.386	0.189	0.147	0.540	0.369	0.196	0.188	0.596	0.387	0.191	0.002
	Right side	0.466	0.679	0.585	0.386	0.189	0.733	0.540	0.369	0.196	0.645	0.596	0.387	0.191	0.002
	Top side	1.026		0.585	0.386	0.189	1.077	0.540	0.369	0.196	0.667	0.596	0.387	0.191	0.041
	Bottom side	1.095	0.001	0.585	0.386	0.189									

WWAN Band	Exposure Position	2+14	10+14	7+11	3+11+14	1+8	1+12+14	1+4+14	1+9+13	1+5+13+14	1+14
All Bands(Ant0&2&3&4&5&6)	Front	0.31	0.49	1.14	1.18	1.45	1.47	1.46	1.46	1.46	1.36
	Back	0.53	1.19	1.14	1.20	1.45	1.49	1.49	1.47	1.49	1.28
	Left side	0.11	0.19	1.14	1.18	1.46	1.48	1.48	1.48	1.48	1.19
	Right side	0.68	0.65	1.14	1.18	0.84	0.86	0.85	0.85	0.85	0.50
	Top side	0.04	0.71	1.14	1.22	1.40	1.45	1.45	1.41	1.45	1.30
	Bottom side	0.00	0.00	0.00	0.59	1.10	1.10	1.48	1.10	1.28	1.10

16.5 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
All Bands	Front	0.609	0.198	0.198	0.198	0.182	0.377	0.377	0.377	0.198	0.518	0.574	0.382	0.194	0.004	0.063	0.063	0.063	0.063	0.139
	Back	0.620	0.309	0.309	0.309	0.182	0.434	0.434	0.434	0.198	1.151	0.574	0.382	0.194	0.011	0.216	0.216	0.216	0.216	0.094

WWAN Band	Exposure Position	2+14+19	10+14+19	15+14+19	7+11+19	7+16+19	3+11+14+19	3+16+14+19	1+8+19	1+12+14+19	1+17+14+19	1+4+14+19	1+9+13+19	1+9+18+19	1+5+13+14+19	1+5+18+14	6+19	1+14+19	1+5+18+19
All Bands	Front	0.34	0.66	0.21	1.09	0.58	0.92	0.40	1.13	1.13	0.82	0.95	1.14	1.01	1.13	0.86	0.52	0.75	0.99
	Back	0.41	1.26	0.32	1.10	0.74	0.99	0.63	1.15	1.11	0.94	1.03	1.11	1.13	1.10	1.03	0.53	0.73	1.11



FCC SAR Test Report

Report No. : FA460505

16.6 Product specific 10g SAR Exposure Conditions

Remark:

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

<RFID On>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		WWAN	WLAN2.4GHz Ant 7+9 Standalone Non DBS	WLAN2.4GHz Ant 7+9 Standalone DBS only	WLAN2.4GHz Ant 7+9 Simultaneous Non DBS	WLAN2.4GHz Ant 7+9 Simultaneous DBS	WLAN5GHz Ant 8+10 Standalone Non DBS	WLAN5GHz Ant 8+10 Standalone DBS only	WLAN5GHz Ant 8+10 Simultaneous Non DBS	WLAN5GHz Ant 8+10 Simultaneous DBS	WLAN6GHz Ant 8+10 Standalone Non DBS	WLAN6GHz Ant 8+10 Standalone DBS only	WLAN6GHz Ant 8+10 Simultaneous Non DBS	WLAN6GHz Ant 8+10 Simultaneous DBS	RFID	NFC
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
All Bands	Front	1.998					1.083	1.572	0.910	0.488	0.129	0.129	0.129	0.129	0.550	0.001
	Back	1.998					2.753	1.572	0.910	0.488	0.334	0.334	0.334	0.334	0.349	0.073
	Left side	1.998					0.219	1.572	0.910	0.488	0.023	0.023	0.023	0.023	0.327	0.001
	Right side	1.998					2.741	1.572	0.910	0.488	0.105	0.105	0.105	0.105	0.017	0.001
	Top side	1.998	2.827	1.433	0.852	0.440	1.822	1.572	0.910	0.488	0.235	0.235	0.235	0.235	0.263	0.001
	Bottom side	1.998													0.011	0.001

WWAN Band	Exposure Position	6+14+15	3+7+14+15	3+11+14+15	1+4+14+15	1+8+14+15	1+12+14+15	1+5+9+14+15	1+5+13+14+15	2+14+15	10+14+15
		Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)
All Bands	Front	1.63	2.12	0.68	2.55	3.46	2.68	3.04	2.68	0.55	0.68
	Back	3.18	1.99	0.76	2.42	3.33	2.75	2.91	2.75	0.42	0.76
	Left side	0.55	1.90	0.35	2.33	3.24	2.35	2.81	2.35	0.33	0.35
	Right side	2.76	1.59	0.12	2.02	2.93	2.12	2.50	2.12	0.02	0.12
	Top side	2.09	3.27	1.93	3.11	3.17	2.50	3.19	2.94	3.09	0.50
	Bottom side	0.01	0.01	0.01	2.01	2.01	2.01	2.01	2.01	0.01	0.01

<RFID Off>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	13	15
		WWAN	WLAN2.4GHz Ant 7+9 Standalone Non DBS	WLAN2.4GHz Ant 7+9 Standalone DBS only	WLAN2.4GHz Ant 7+9 Simultaneous Non DBS	WLAN2.4GHz Ant 7+9 Simultaneous DBS	WLAN5GHz Ant 8+10 Standalone Non DBS	WLAN5GHz Ant 8+10 Standalone DBS only	WLAN5GHz Ant 8+10 Simultaneous Non DBS	WLAN5GHz Ant 8+10 Simultaneous DBS	WLAN6GHz Ant 8+10 Standalone Non DBS	WLAN6GHz Ant 8+10 Standalone DBS only	WLAN6GHz Ant 8+10 Simultaneous Non DBS	WLAN6GHz Ant 8+10 Simultaneous DBS	NFC
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
All Bands(Ant0&2 &3&4&5&6)	Front	2.824					1.083	1.572	0.910	0.488	0.129	0.129	0.129	0.129	0.001
	Back	2.308					2.753	1.572	0.910	0.488	0.334	0.334	0.334	0.334	0.073
	Left side	3.078					0.219	1.572	0.910	0.488	0.023	0.023	0.023	0.023	0.001
	Right side						2.741	1.572	0.910	0.488	0.105	0.105	0.105	0.105	0.001
	Top side	1.175	2.827	1.433	0.852	0.440	1.822	1.572	0.910	0.488	0.235	0.235	0.235	0.235	0.001
	Bottom side	3.069													0.001

WWAN Band	Exposure Position	6+15	3+7+15	3+11+15	1+4+15	1+8+15	1+12+15	1+5+9+15	1+5+13+15	2+15	10+15
		Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)
All Bands(Ant0&2 &3&4&5&6)	Front	1.08	1.57	0.13	2.83	3.74	2.95	3.31	2.95	0.00	0.13
	Back	2.83	1.65	0.41	2.38	3.29	2.72	2.87	2.72	0.07	0.41
	Left side	0.22	1.57	0.02	3.08	3.99	3.10	3.57	3.10	0.00	0.02
	Right side	2.74	1.57	0.11	0.00	0.91	0.11	0.49	0.11	0.00	0.11
	Top side	1.82	3.01	1.67	2.03	2.09	1.41	2.10	1.85	2.83	0.24
	Bottom side	0.00	0.00	0.00	3.07	3.07	3.07	3.07	3.07	0.00	0.00

Test Engineer : Martin Li, Varus Wang, Ricky Gu, Light Wang



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

-----THE END-----

**Appendix A. Plots of System Performance Check**

The plots are shown as follows.

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2024/8/16

System Check_Head_750MHz**DUT: D750V3 - SN:1087**

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.9 \text{ S/m}$; $\epsilon_r = 41.192$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(9.21, 8.75, 9.15); Calibrated: 2024/1/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2023/9/13
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 0.567 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.61 V/m; Power Drift = 0.03 dB

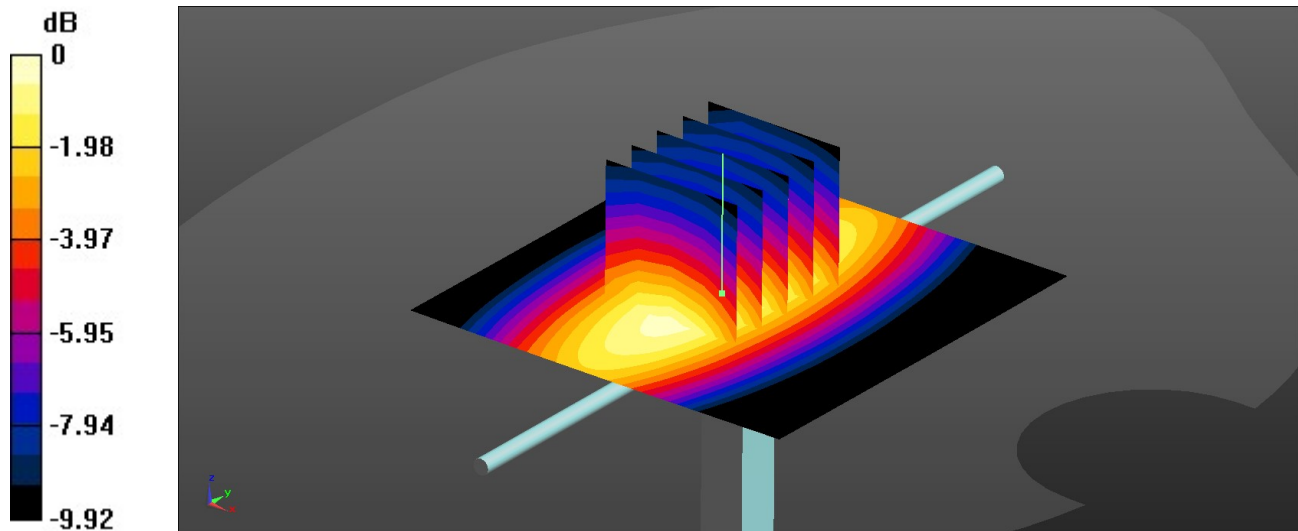
Peak SAR (extrapolated) = 0.617 W/kg

SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.293 W/kg

Smallest distance from peaks to all points 3 dB below = 16.7 mm

Ratio of SAR at M2 to SAR at M1 = 70.3%

Maximum value of SAR (measured) = 0.563 W/kg



0 dB = 0.563 W/kg = -2.49 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2024/8/17

System Check_Head_835MHz**DUT: D835V2 - SN:4d091**

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835 Medium parameters used: $f = 835$ MHz; $\sigma = 0.902$ S/m; $\epsilon_r = 41.24$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(9.29, 8.23, 9.75); Calibrated: 2024/1/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2023/9/13
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Maximum value of SAR (interpolated) = 0.596 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 27.46 V/m; Power Drift = -0.01 dB

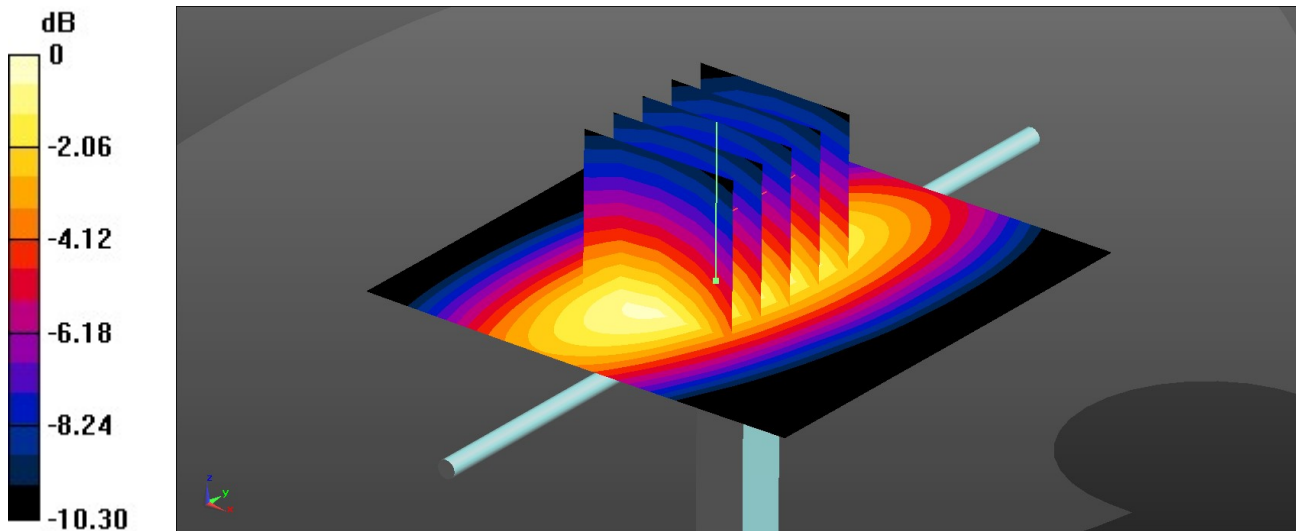
Peak SAR (extrapolated) = 0.658 W/kg

SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.307 W/kg

Smallest distance from peaks to all points 3 dB below = 16.3 mm

Ratio of SAR at M2 to SAR at M1 = 69.8%

Maximum value of SAR (measured) = 0.597 W/kg



0 dB = 0.597 W/kg = -2.24 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2024/7/6

System Check_Head_1750MHz**DUT: D1750V2 - SN:1090**

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.409$ S/m; $\epsilon_r = 40.669$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(7.78, 7.1, 7.9); Calibrated: 2024/1/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2023/9/13
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 3.02 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 47.95 V/m; Power Drift = 0.02 dB

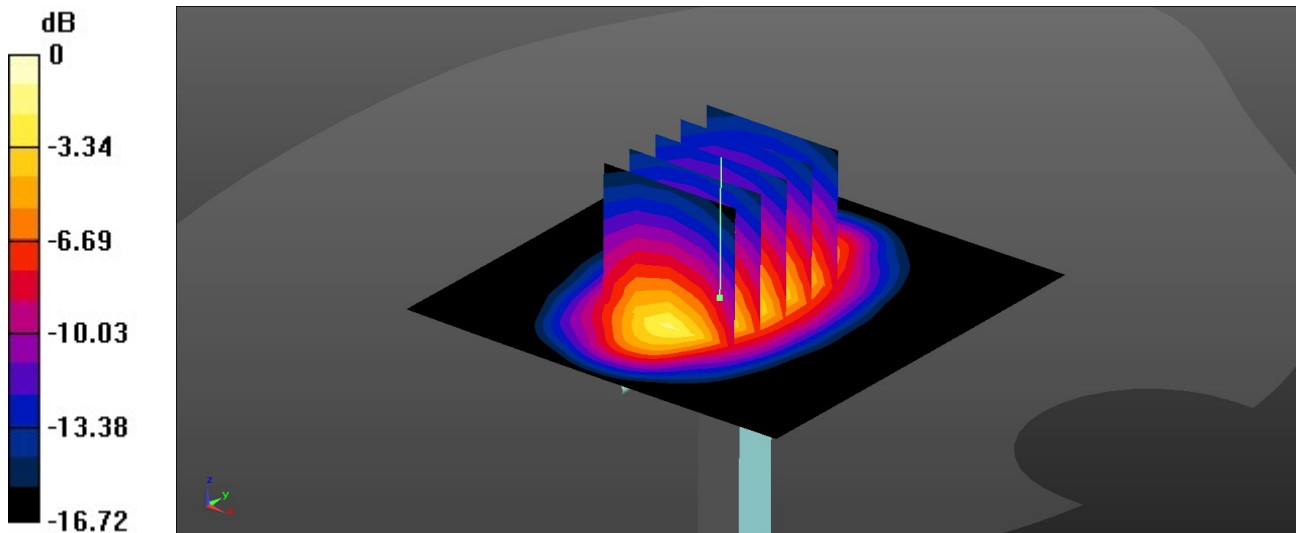
Peak SAR (extrapolated) = 3.52 W/kg

SAR(1 g) = 1.91 W/kg; SAR(10 g) = 0.998 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 3.01 W/kg



0 dB = 3.01 W/kg = 4.79 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2024/7/7

System Check_Head_1900MHz**DUT: D1900V2 - SN:5d118**

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.397$ S/m; $\epsilon_r = 39.035$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(7.93, 7.26, 8.03); Calibrated: 2024/1/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2023/9/13
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 2.54 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 43.06 V/m; Power Drift = 0.10 dB

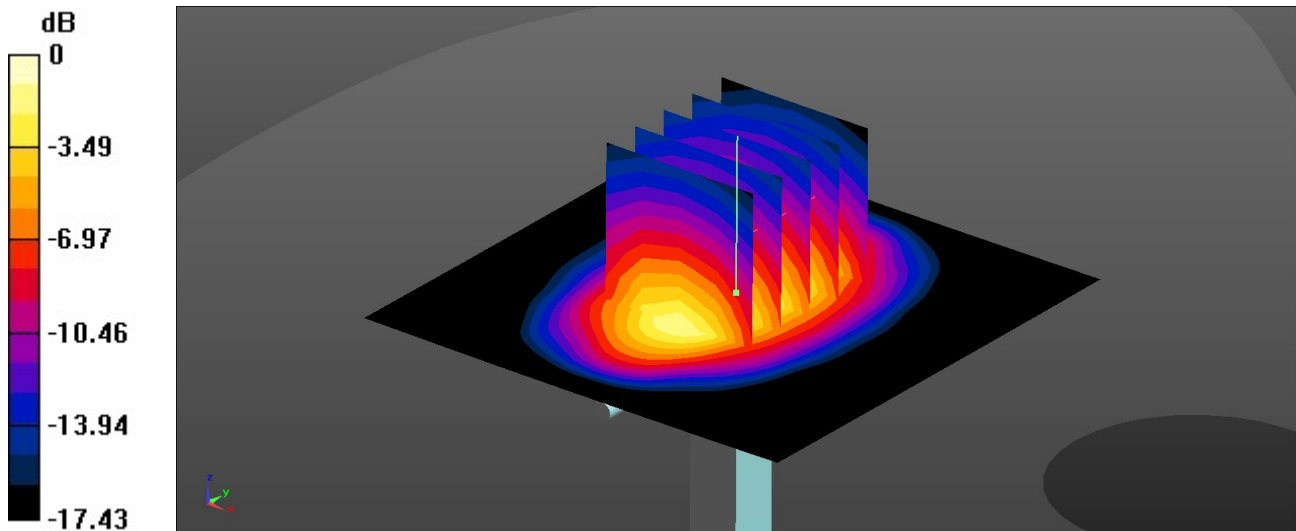
Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.07 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 57.7%

Maximum value of SAR (measured) = 2.54 W/kg



0 dB = 2.54 W/kg = 4.05 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2024/7/8

System Check_Head_2300MHz**DUT: D2300V2 - SN:1055**

Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: HSL_2300 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.715$ S/m; $\epsilon_r = 38.769$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(7.77, 7.09, 7.82); Calibrated: 2024/1/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2023/9/13
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 3.56 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.87 V/m; Power Drift = 0.04 dB

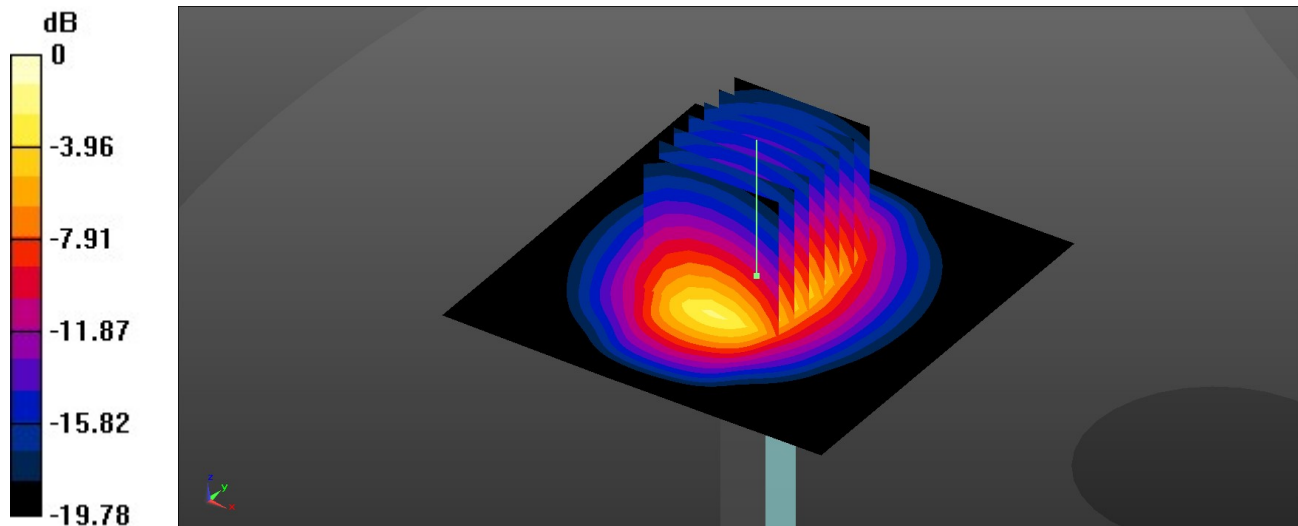
Peak SAR (extrapolated) = 5.22 W/kg

SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.27 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 51.7%

Maximum value of SAR (measured) = 3.43 W/kg



0 dB = 3.43 W/kg = 5.35 dBW/kg

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2024/7/9

System Check_Head_2600MHz**DUT: D2600V2 - SN:1112**

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.926$ S/m; $\epsilon_r = 38.23$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(7.36, 6.7, 7.41); Calibrated: 2024/1/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2023/9/13
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (71x71x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm
 Maximum value of SAR (interpolated) = 4.34 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 46.55 V/m; Power Drift = 0.01 dB

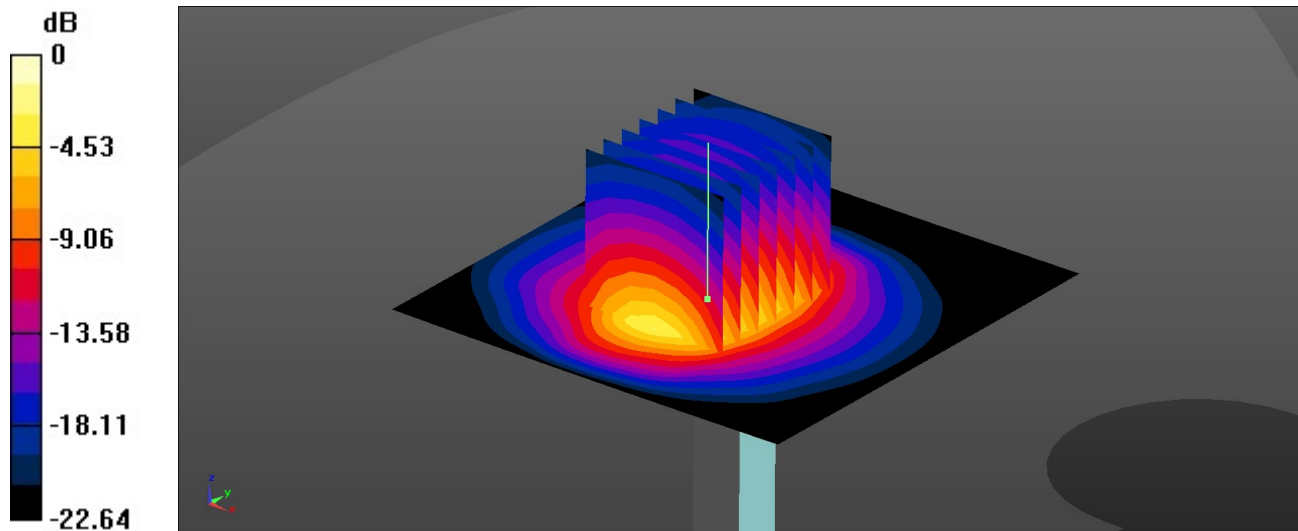
Peak SAR (extrapolated) = 5.36 W/kg

SAR(1 g) = 2.63 W/kg; SAR(10 g) = 1.2 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 49.4%

Maximum value of SAR (measured) = 4.38 W/kg



Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab

Date: 2024/7/10

System Check_Head_3500MHz**DUT: D3500V2 - SN:1037**

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: HSL_3500 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.784$ S/m; $\epsilon_r = 38.912$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3857; ConvF(7.08, 6.34, 6.93); Calibrated: 2024/1/22
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1650; Calibrated: 2023/9/13
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-1697
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 5.71 W/kg**Pin=50mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 45.34 V/m; Power Drift = 0.02 dB

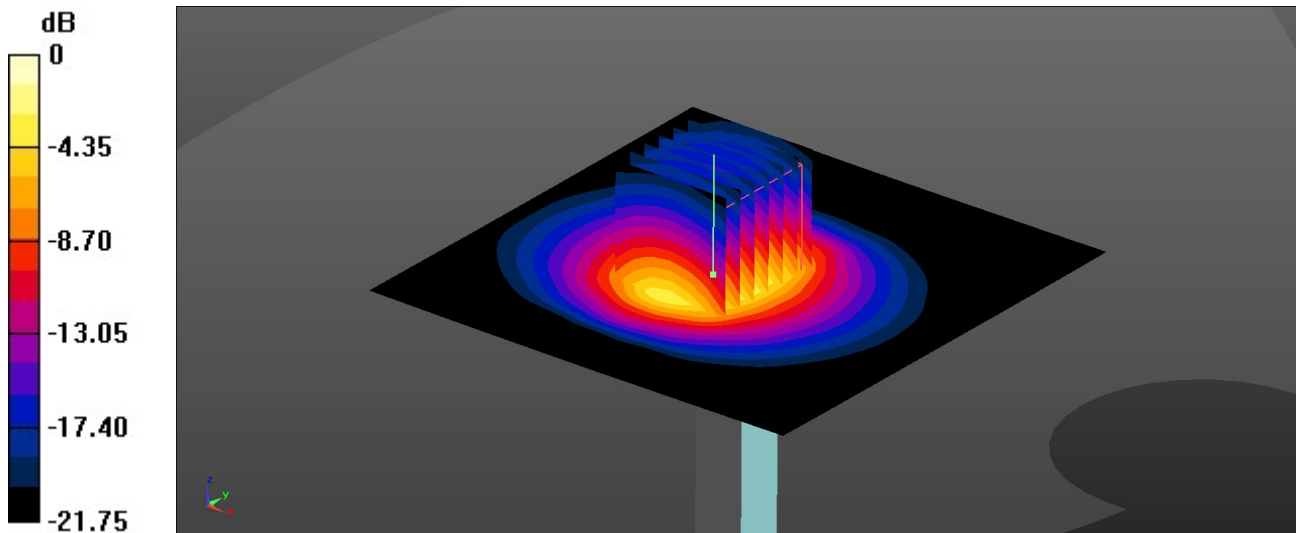
Peak SAR (extrapolated) = 7.28 W/kg

SAR(1 g) = 3.03 W/kg; SAR(10 g) = 1.18 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 78%

Maximum value of SAR (measured) = 5.68 W/kg



0 dB = 5.68 W/kg = 7.54 dBW/kg