

FCC SAR Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : POCO
MODEL NAME : 2602BPC18G
FCC ID : 2AFZZPC18G
STANDARD : FCC 47 CFR Part 2 (2.1093)

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

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



Approved by: Si Zhang



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Table of Contents

1. Statement of Compliance	4
2. Administration Data	5
3. Guidance Applied	5
4. Equipment Under Test (EUT) Information	6
4.1 General Information.....	6
4.2 General LTE SAR Test and Reporting Considerations	8
4.3 General 5G NR SAR Test and Reporting Considerations	11
5. TA-SAR feature for RF Exposure compliance	14
6. Proximity Sensor Triggering Test.....	18
7. RF Exposure Limits.....	19
7.1 Uncontrolled Environment	19
7.2 Controlled Environment.....	19
8. Specific Absorption Rate (SAR)	20
8.1 Introduction	20
8.2 SAR Definition	20
9. System Description and Setup.....	21
9.1 E-Field Probe	22
9.2 Data Acquisition Electronics (DAE)	22
9.3 Phantom.....	23
9.4 Device Holder.....	24
10. Measurement Procedures.....	25
10.1 Spatial Peak SAR Evaluation	25
10.2 Power Reference Measurement.....	26
10.3 Area Scan.....	26
10.4 Zoom Scan	27
10.5 Volume Scan Procedures	27
10.6 Power Drift Monitoring	27
11. Test Equipment List	28
12. System Verification	29
12.1 Tissue Simulating Liquids.....	29
12.2 Tissue Verification	30
12.3 System Performance Check Results.....	31
13. RF Exposure Positions	32
13.1 Ear and handset reference point	32
13.2 Definition of the cheek position	33
13.3 Definition of the tilt position	34
13.4 Body Worn Accessory	35
13.5 Product Specific 10g SAR Exposure	36
13.6 Wireless Router	36
14. Conducted RF Output Power (Unit: dBm)	37
15. Antenna Location	51
16. SAR Test Results	52
16.1 Head SAR	55
16.2 Hotspot SAR	69
16.3 Body Worn Accessory SAR	84
16.4 Product specific 10g SAR.....	95
16.5 Repeated SAR Measurement	96
16.6 NR Linearity Data Analysis	97
17. Simultaneous Transmission Analysis	101
17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis.....	102
17.2 Head Exposure Conditions.....	104
17.3 Hotspot Exposure Conditions.....	106
17.4 Body-Worn Accessory Exposure Conditions	108
17.5 Product specific 10g SAR Exposure Conditions.....	110
17.6 SPLSR Evaluation and Analysis.....	111
17.7 Maximum Reported SAR and SAR Peak Locations	122
18. Uncertainty Assessment.....	127
19. References.....	128
Appendixes	129
Appendix A. Plots of System Performance Check.....	129
Appendix B. Plots of High SAR Measurement	129
Appendix C. DASY Calibration Certificate.....	129
Appendix D. Test Setup Photos.....	129



Appendix E. Conducted RF Output Power Table	129
Appendix F. Power measurement connection diagram and CA Conducted RF Output Power Table	129
Appendix G. Power reduction mechanism verification	129

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA5N1302	Rev. 01	Initial issue of report.	Jan. 09, 2026

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Xiaomi Communications Co., Ltd., Mobile Phone, 2602BPC18G**, are as follows.

Equipment Class	Frequency Band		Highest SAR Summary				Highest Simultaneous Transmission 1g SAR SAR (W/kg)	Highest Simultaneous Transmission 10g SAR SAR (W/kg)
			Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 5mm)	Extremity (Separation 0mm)		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	10g SAR (W/kg)		
Licensed	GSM	GSM850	0.62	0.87	1.07	1.59	1.59	2.39
		GSM1900	0.93	0.52	0.94			
	WCDMA	WCDMA V	0.93	0.79	1.09			
		WCDMA II	0.98	0.56	1.08			
		WCDMA IV	1.08	0.41	1.04			
	LTE	LTE Band 2	0.97	0.38	1.09			
		LTE Band 7	1.05	1.02	1.06			
		LTE Band 26/5	0.91	0.55	1.06			
		LTE Band 41/38	1.00	0.60	0.85			
		LTE Band 48	0.95	0.32	0.81			
		LTE Band 66/4	1.07	0.62	0.97			
		LTE Band 42	1.07	0.27	0.91			
	FR1	FR1 n2	1.00	0.46	1.09			
		FR1 n5	0.98	0.78	1.09			
		FR1 n7	0.95	0.48	0.98			
		FR1 n41/n38	0.91	0.54	0.96			
		FR1 n48	0.99	0.36	1.03			
		FR1 n66	1.05	0.55	1.02			
		FR1 n77	0.96	0.85	1.02			
		FR1 n78	1.08	0.35	1.07			
DTS	WLAN	2.4GHz WLAN	1.08	0.28	1.06	1.59	1.59	2.39
NII		5GHz WLAN	1.05	0.96	1.08	2.39	1.59	2.39
DSS	Bluetooth	Bluetooth	1.09	0.53	1.00	1.59	1.59	2.39
Date of Testing:		2025/12/02 ~ 2025/12/22						

Remark:

- This device supports LTE B4 / B5 / B38 and B66 / B26 / B41. Since the supported frequency span for LTE B4 / B5 / B38 falls completely within the support's frequency span for LTE B66 / B26 / 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 B66 / B26 / B41.
- This device supports 5GNR n38 and n41. Since the supported frequency span for 5GNR n38 falls completely within the support's frequency span for n41, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n41.

Declaration of Conformity:

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

Comments and Explanations:

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

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

2. Administration Data

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

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.
	SAR01-KS	CN1257	314309

Applicant	
Company Name	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer	
Company Name	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3. Guidance Applied

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

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

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Phone
Brand Name	POCO
Model Name	2602BPC18G
FCC ID	2AFZZPC18G
IMEI Code	860534080024646/860534080024653, 860534080020487/860534080020495
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 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 Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax/be HE20/HE40/EHT20/EHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160 Bluetooth BR/EDR/LE NFC: ASK
HW Version	13510P10U
SW Version	Xiaomi HyperOS 3.0

GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark:	
1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. 2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications. 3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). 4. The Bluetooth/2.4GHz/5GHz WLAN can transmit in SISO/MIMO antenna mode. And 802.11b/g supports SISO mode for 2.4GHz WLAN 5. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12. 6. For dual SIM card mobile has two SIM slots and supports Dual SIM Dual Access. Dual-SIM Dual-Access means that two mobile phone cards can be inserted into the mobile phone and it can answer calls at the same time. 7. The device implements proximity sensor/receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the MediaTek TA-SAR will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E. 8. For 5GNR n77/n78 HPUE, 5GNR n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission. 9. The device support DBS (Dual Band Simultaneous) function, when the device WLAN 2.4GHz and WLAN 5GHz transmit at the same time the device will limit different output power for simultaneous transmission compliance. 10. This device supports HPUE mode for 5GNR n77/n78 with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so power class 3 was chosen to perform full SAR testing and power class 2 verified the worst case of power class 3 SAR. 11. For 5GNR, the simultaneous transmission analysis is used standalone SAR at total power level to show compliance. 12. This device will be equipped with Ring stand, The Ring stand has no metallic wristband and do not contain any electronic circuitry, and they have no effect on RF exposure, so no need to test with it. 13. There are two samples. The difference between them are memory capacity and screen. The sample 1 is 12+256G memory + screen 1, the sample 2 is 12+512G memory + screen 2. According to the difference, sample 1 was chosen to perform full SAR testing. 14. This device has NFC function and the NFC SAR report will be separately submitted. 15. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.	

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
	n78	TDD	30	10, 15, 20, 25, 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, 50
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 80, 90, 100
	n48	TDD	30	10, 15, 20, 40
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																													
FCC ID	2AFZZPC18G																																																																												
Equipment Name	Mobile Phone																																																																												
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 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 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz																																																																												
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																																												
LTE Voice / Data requirements	Voice and Data																																																																												
LTE Release Version	R18																																																																												
CA Support	Supported, Uplink and Downlink																																																																												
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
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16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																						
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256 QAM	≥ 1						≤ 5																																																																						
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																												
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																												
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body-worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 14.																																																																												
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.																																																																												
LTE Carrier Aggregation Additional Information	1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and Inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 2 carriers in the uplink.																																																																												

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)



L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz			Bandwidth 3 MHz			Bandwidth 5 MHz			Bandwidth 10 MHz		
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #	Freq. (MHz)
L	20407	824.7		20415	825.5		20425		826.5		20450	829
M	20525	836.5		20525	836.5		20525		836.5		20525	836.5
H	20643	848.3		20635	847.5		20625		846.5		20600	844
LTE Band 7												
	Bandwidth 5 MHz			Bandwidth 10 MHz			Bandwidth 15 MHz			Bandwidth 20 MHz		
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #	Freq. (MHz)
L	20775	2502.5		20800	2505		20825		2507.5		20850	2510
M	21100	2535		21100	2535		21100		2535		21100	2535
H	21425	2567.5		21400	2565		21375		2562.5		21350	2560

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

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

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

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

LTE Band 42												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	42115	3452.5	42140	3455	42165	3457.5	42190	3460	42190	3460		
M	42590	3500	42590	3500	42590	3500	42590	3500	42590	3500		
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540	42990	3540		

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



<For LTE Overlap Bands Description>

1) LTE Bands BW

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 5	Yes	Yes	Yes	Yes		
LTE Band 26	Yes	Yes	Yes	Yes	Yes	
LTE Band 4	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 66	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 38			Yes	Yes	Yes	Yes
LTE Band 41			Yes	Yes	Yes	Yes

2) LTE Bands tune up:

Band	Antenna	Full Power	ECI1	ECI3	ECI4	ECI5
			Receiver on	Sensor on	Sensor off	Hotspot
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit
LTE Band 5	Ant 0	25.50	25.50	25.50	25.50	25.50
LTE Band 26	Ant 0	25.50	25.50	25.50	25.50	25.50
LTE Band 5	Ant 1	25.50	22.00	22.50	22.50	22.00
LTE Band 26	Ant 1	25.50	22.00	22.50	22.50	22.00
LTE Band 5 Other PA	Ant 0	25.00	25.00	25.00	25.00	25.00
LTE Band LTE Band 26 Other PA	Ant 0	25.00	25.00	25.00	25.00	25.00
LTE Band 5 Other PA	Ant 1	25.00	22.00	22.50	22.50	22.00
LTE Band LTE Band 26 Other PA	Ant 1	25.00	22.00	22.50	22.50	22.00
LTE Band 4	Ant 2	25.50	19.00	19.50	23.50	19.00
LTE Band 66	Ant 2	25.50	19.00	19.50	23.50	19.00
LTE Band 4	Ant 3	25.70	20.20	19.70	23.70	19.70
LTE Band 66	Ant 3	25.70	20.20	19.70	23.70	19.70
LTE Band 4	Ant 4	25.70	18.70	20.20	20.20	18.70
LTE Band 66	Ant 4	25.70	18.70	20.20	20.20	18.70
LTE Band 4	Ant 5	25.50	25.50	20.50	20.50	20.50
LTE Band 66	Ant 5	25.50	25.50	20.50	20.50	20.50
LTE Band 38	Ant 2	25.50	19.00	18.00	23.50	18.00
LTE Band 41	Ant 2	25.50	19.00	18.00	23.50	18.00
LTE Band 38	Ant 3	25.50	21.50	22.50	25.50	21.50
LTE Band 41	Ant 3	25.50	21.50	22.50	25.50	21.50
LTE Band 38	Ant 4	25.70	20.70	19.70	19.70	19.70
LTE Band 41	Ant 4	25.70	20.70	19.70	19.70	19.70
LTE Band 38	Ant 5	25.00	25.00	22.00	22.00	22.00
LTE Band 41	Ant 5	25.00	25.00	22.00	22.00	22.00
LTE Band 38 Other PA	Ant 2	25.50	19.50	18.50	24.00	18.50
LTE Band 41 Other PA	Ant 2	25.50	19.50	18.50	24.00	18.50
LTE Band 38 Other PA	Ant 3	25.00	21.50	22.50	25.00	21.50
LTE Band 41 Other PA	Ant 3	25.00	21.50	22.50	25.00	21.50
LTE Band 38 Other PA	Ant 4	25.00	20.20	19.20	19.20	19.20
LTE Band 41 Other PA	Ant 4	25.00	20.20	19.20	19.20	19.20
LTE Band 38 Other PA	Ant 5	24.50	24.50	22.00	22.00	22.00
LTE Band 41 Other PA	Ant 5	24.50	24.50	22.00	22.00	22.00

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

4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 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 n5	LTE B7/66
LTE Anchor Bands for n7	LTE B5
LTE Anchor Bands for n66	LTE B5
LTE Anchor Bands for n78	LTE B2/5/7/26/38/41

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

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

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

NR Band 66														
	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	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	346000	1730
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352000	1760

NR Band 38												
	Bandwidth10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	515000	2575	515500	2577.5	516000	2580	516500	2582.5	517000	2585	518000	2590
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	523000	2615	522500	2612.5	522000	2610	521500	2607.5	521000	2605	5210000	2600

NR Band 41																				
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	529998	2649.99	528996	2644.98	528000	2640



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

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

NR Band 78																								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652832	3792.49	652666	3789.99	652500	3787.5	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		

For <3450 MHz ~ 3550 MHz >

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

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

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

Band	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 n38		Yes	Yes	Yes	Yes	Yes		Yes							
FR1 n41		Yes	Yes	Yes		Yes		Yes		Yes	Yes		Yes	Yes	Yes

2) NR Bands Tune up:

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

Band	Antenna	Full Power	ECI1	ECI3	ECI4	ECI5
			Receiver on	Sensor on	Sensor off	Hotspot
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit
FR1 n38	Ant 2	25.50	16.50	19.50	23.50	16.50
FR1 n41	Ant 2	25.50	16.50	19.50	23.50	16.50
FR1 n38	Ant 3	25.50	23.00	21.00	25.50	21.00
FR1 n41	Ant 3	25.50	23.00	21.00	25.50	21.00
FR1 n38	Ant 4	25.70	17.70	19.20	19.20	17.70
FR1 n41	Ant 4	25.70	17.70	19.20	19.20	17.70
FR1 n38	Ant 5	25.00	25.00	21.00	21.00	21.00
FR1 n41	Ant 5	25.00	25.00	21.00	21.00	21.00
FR1 n38 Other PA	Ant 2	25.50	17.00	20.00	24.00	17.00
FR1 n41 Other PA	Ant 2	25.50	17.00	20.00	24.00	17.00
FR1 n38 Other PA	Ant 3	25.00	23.00	21.00	25.00	21.00
FR1 n41 Other PA	Ant 3	25.00	23.00	21.00	25.00	21.00
FR1 n38 Other PA	Ant 4	25.00	17.20	18.70	18.70	17.20
FR1 n41 Other PA	Ant 4	25.00	17.20	18.70	18.70	17.20
FR1 n38 Other PA	Ant 5	24.50	24.50	21.00	21.00	21.00
FR1 n41 Other PA	Ant 5	24.50	24.50	21.00	21.00	21.00

5. TA-SAR feature for RF Exposure compliance

WWAN bands are all enabled with MediaTek TA-SAR Gen2 feature to improve antenna performance by applying separate SAR budgets to each predefined antenna group. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time.

Note that WLAN/BT operations are not enabled with TA-SAR Gen2 feature.

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

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

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

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for TA-SAR Gen2 algorithm. SAR char will be entered via the MediaTek's NV suggestion to enable the TA-SAR Gen2 Feature.

<Terminologies in this report>

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

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for TA-SAR Gen2 algorithm to control and manage RF exposure for $f < 6\text{GHz}$.

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

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

Antenna Group:

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



The TA-SAR Gen2 algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band.

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

<Plimit for supported technologies and bands >

Band	Antenna	ECI1	ECI3	ECI4	ECI5	Pmax*	Total Uncertainty dB (k=2)
GSM850	Ant 0	30.70	25.00	25.00	27.90	23.5	1.00
GSM850	Ant 1	19.00	21.00	21.00	19.00	23.0	1.50
GSM1900	Ant 2	18.50	20.00	20.50	18.50	20.5	1.00
GSM1900	Ant 3	18.00	18.00	20.50	18.00	20.5	1.50
WCDMA II	Ant 2	22.50	24.70	24.70	22.50	24.0	1.00
WCDMA II	Ant 3	18.00	17.50	24.00	17.50	24.0	1.50
WCDMA IV	Ant 2	17.50	19.50	24.00	17.50	24.0	1.00
WCDMA IV	Ant 3	28.80	28.90	28.90	32.00	24.0	1.50
WCDMA V	Ant 0	29.40	24.30	24.30	27.00	24.0	1.00
WCDMA V	Ant 1	20.00	19.50	19.50	19.50	23.5	1.50
LTE Band 2	Ant 2	18.00	19.50	23.00	18.00	24.0	1.00
LTE Band 2	Ant 3	20.50	20.50	24.00	20.50	24.0	1.50
LTE Band 2	Ant 4	15.00	17.50	17.50	15.00	24.0	1.50
LTE Band 2	Ant 5	33.70	21.00	21.00	21.00	24.0	1.50
LTE Band 7	Ant 2	15.00	15.50	21.50	15.00	24.5	1.00
LTE Band 7 OPA	Ant 2	15.00	15.50	21.50	15.00	24.0	1.50
LTE Band 7	Ant 3	19.50	18.50	24.00	18.50	24.0	1.50
LTE Band 7 OPA	Ant 3	19.50	18.50	23.50	18.50	23.5	1.50
LTE Band 7	Ant 4	17.70	17.70	17.70	17.70	24.2	1.50
LTE Band 7 OPA	Ant 4	17.70	17.70	17.70	17.70	24.0	1.00
LTE Band 7	Ant 5	30.20	20.50	20.50	20.50	23.5	1.50
LTE Band 7 OPA	Ant 5	30.10	20.50	20.50	20.50	23.0	1.50
LTE Band 26(5)	Ant 0	30.30	24.50	24.50	27.70	24.5	1.00
LTE Band 26(5) OPA	Ant 0	31.00	24.00	24.00	28.00	24.0	1.00
LTE Band 26(5)	Ant 1	20.50	21.00	21.00	20.50	24.0	1.50
LTE Band 26(5) OPA	Ant 1	20.50	21.00	21.00	20.50	23.5	1.50
LTE Band 66(4)	Ant 2	18.00	18.50	22.50	18.00	24.5	1.00
LTE Band 66(4)	Ant 3	18.70	18.20	22.20	18.20	24.2	1.50
LTE Band 66(4)	Ant 4	17.20	18.70	18.70	17.20	24.2	1.50
LTE Band 66(4)	Ant 5	31.50	19.00	19.00	19.00	24.0	1.50
LTE Band 41(38)	Ant 2	16.00	15.00	20.50	15.00	22.5	1.00
LTE Band 41(38) OPA	Ant 2	16.00	15.00	20.50	15.00	22.0	1.50
LTE Band 41(38)	Ant 3	18.00	19.00	22.00	18.00	22.0	1.50
LTE Band 41(38) OPA	Ant 3	18.00	19.00	21.50	18.00	21.5	1.50
LTE Band 41(38)	Ant 4	17.20	16.20	16.20	16.20	22.2	1.50
LTE Band 41(38) OPA	Ant 4	17.20	16.20	16.20	16.20	22.0	1.00
LTE Band 41(38)	Ant 5	30.80	18.50	18.50	18.50	21.5	1.50
LTE Band 41(38) OPA	Ant 5	30.40	18.50	18.50	18.50	21.0	1.50
LTE Band 42	Ant 1	15.00	14.50	14.50	14.50	20.0	1.50
LTE Band 42	Ant 2	15.00	17.50	21.50	15.00	22.5	1.00
LTE Band 42	Ant 3	24.20	24.30	24.30	28.40	22.0	1.50
LTE Band 42	Ant 6	26.40	26.80	26.80	29.70	20.0	1.50
LTE Band 48	Ant 1	15.00	16.00	16.00	15.00	18.0	1.50
LTE Band 48	Ant 2	15.00	17.00	21.00	15.00	21.0	1.00
LTE Band 48	Ant 3	25.20	21.90	21.90	26.00	20.5	1.50
LTE Band 48	Ant 6	25.30	27.20	27.20	30.60	18.0	1.50
FR1 n2	Ant 2	18.50	19.50	23.00	18.50	24.0	1.00
FR1 n2	Ant 3	21.50	22.00	24.00	21.50	24.0	1.50



FCC SAR Test Report

Report No. : FA5N1302

FR1 n2	Ant 4	13.00	18.50	18.50	13.00	24.0	1.50
FR1 n2	Ant 5	24.00	20.50	20.50	20.50	24.0	1.50
FR1 n5	Ant 0	32.20	24.50	24.50	27.30	24.5	1.00
FR1 n5	Ant 1	20.50	20.00	20.00	20.00	24.0	1.50
FR1 n7	Ant 2	16.00	18.00	21.50	16.00	24.5	1.00
FR1 n7 OPA	Ant 2	16.00	18.00	21.50	16.00	24.0	1.50
FR1 n7	Ant 3	21.00	18.50	24.00	18.50	24.0	1.50
FR1 n7 OPA	Ant 3	21.00	18.50	23.50	18.50	23.5	1.50
FR1 n7	Ant 4	17.20	17.20	17.20	17.20	24.2	1.50
FR1 n7 OPA	Ant 4	17.20	17.20	17.20	17.20	24.0	1.00
FR1 n7	Ant 5	29.80	18.50	18.50	18.50	23.5	1.50
FR1 n7 OPA	Ant 5	29.80	18.50	18.50	18.50	23.0	1.50
FR1 n66	Ant 2	19.00	20.00	22.50	19.00	24.5	1.00
FR1 n66	Ant 3	19.20	18.20	22.20	18.20	24.2	1.50
FR1 n66	Ant 4	17.70	19.70	19.70	17.70	24.2	1.50
FR1 n66	Ant 5	32.20	19.00	19.00	19.00	24.0	1.50
FR1 n41(38)	Ant 2	15.50	18.50	22.50	15.50	24.5	1.00
FR1 n41(38) OPA	Ant 2	15.50	18.50	22.50	15.50	24.0	1.50
FR1 n41(38)	Ant 3	21.50	19.50	24.00	19.50	24.0	1.50
FR1 n41(38) OPA	Ant 3	21.50	19.50	23.50	19.50	23.5	1.50
FR1 n41(38)	Ant 4	16.20	17.70	17.70	16.20	24.2	1.50
FR1 n41(38) OPA	Ant 4	16.20	17.70	17.70	16.20	24.0	1.00
FR1 n41(38)	Ant 5	29.60	19.50	19.50	19.50	23.5	1.50
FR1 n41(38) OPA	Ant 5	30.10	19.50	19.50	19.50	23.0	1.50
FR1 n48	Ant 1	14.50	17.00	17.00	14.50	20.0	1.50
FR1 n48	Ant 2	16.00	17.00	21.00	16.00	23.0	1.00
FR1 n48	Ant 3	26.20	21.50	22.50	21.50	22.5	1.50
FR1 n48	Ant 6	24.10	20.00	20.00	30.60	20.0	1.50
FR1 n77 Part27O PC3	Ant 1	13.00	15.50	15.50	13.00	20.0	1.50
FR1 n77 Part27O PC2	Ant 1	13.00	15.50	15.50	13.00	19.0	1.50
FR1 n77 Part27O PC3	Ant 2	14.00	15.00	19.00	14.00	23.0	1.00
FR1 n77 Part27O PC2	Ant 2	14.00	15.00	19.00	14.00	22.0	1.00
FR1 n77 Part27O PC3	Ant 3	23.70	20.50	21.50	20.50	22.5	1.50
FR1 n77 Part27O PC2	Ant 3	23.70	20.50	21.50	20.50	21.5	1.50
FR1 n77 Part27O PC3	Ant 6	22.90	24.90	24.90	29.00	20.0	1.50
FR1 n77 Part27O PC2	Ant 6	22.90	24.90	24.90	29.00	19.0	1.50
FR1 n77 Part27Q PC3	Ant 1	13.00	15.50	15.50	13.00	20.0	1.50
FR1 n77 Part27Q PC2	Ant 1	13.00	15.50	15.50	13.00	19.0	1.50
FR1 n77 Part27Q PC3	Ant 2	14.00	15.00	19.00	14.00	23.0	1.00
FR1 n77 Part27Q PC2	Ant 2	14.00	15.00	19.00	14.00	22.0	1.00
FR1 n77 Part27Q PC3	Ant 3	25.30	20.50	21.50	20.50	22.5	1.50
FR1 n77 Part27Q PC2	Ant 3	25.30	20.50	21.50	20.50	21.5	1.50
FR1 n77 Part27Q PC3	Ant 6	20.70	25.70	25.70	27.30	20.0	1.50
FR1 n77 Part27Q PC2	Ant 6	20.70	25.70	25.70	27.30	19.0	1.50
FR1 n78 Part27O PC3	Ant 1	13.00	17.00	17.00	13.00	20.5	1.50
FR1 n78 Part27O PC2	Ant 1	13.00	17.00	17.00	13.00	20.5	1.50
FR1 n78 Part27O PC3	Ant 2	13.00	17.00	19.50	13.00	23.5	1.00
FR1 n78 Part27O PC2	Ant 2	13.00	17.00	19.50	13.00	23.5	1.00
FR1 n78 Part27O PC3	Ant 3	23.40	21.00	22.00	21.00	23.0	1.50
FR1 n78 Part27O PC2	Ant 3	23.40	21.00	22.00	21.00	23.0	1.50
FR1 n78 Part27O PC3	Ant 6	23.40	27.90	27.90	31.40	20.5	1.50
FR1 n78 Part27O PC2	Ant 6	23.40	27.90	27.90	31.40	21.5	1.50
FR1 n78 Part27Q PC3	Ant 1	13.00	17.00	17.00	13.00	20.5	1.50
FR1 n78 Part27Q PC2	Ant 1	13.00	17.00	17.00	13.00	20.5	1.50
FR1 n78 Part27Q PC3	Ant 2	13.00	17.00	19.50	13.00	23.5	1.00
FR1 n78 Part27Q PC2	Ant 2	13.00	17.00	19.50	13.00	23.5	1.00

FR1 n78 Part27Q PC3	Ant 3	23.60	21.00	22.00	21.00	23.0	1.50
FR1 n78 Part27Q PC2	Ant 3	23.60	21.00	22.00	21.00	23.0	1.50
FR1 n78 Part27Q PC3	Ant 6	25.10	27.00	27.00	30.10	20.5	1.50
FR1 n78 Part27Q PC2	Ant 6	25.10	27.00	27.00	30.10	21.5	1.50

Note: 1) * P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + Total uncertainty.

2) All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).

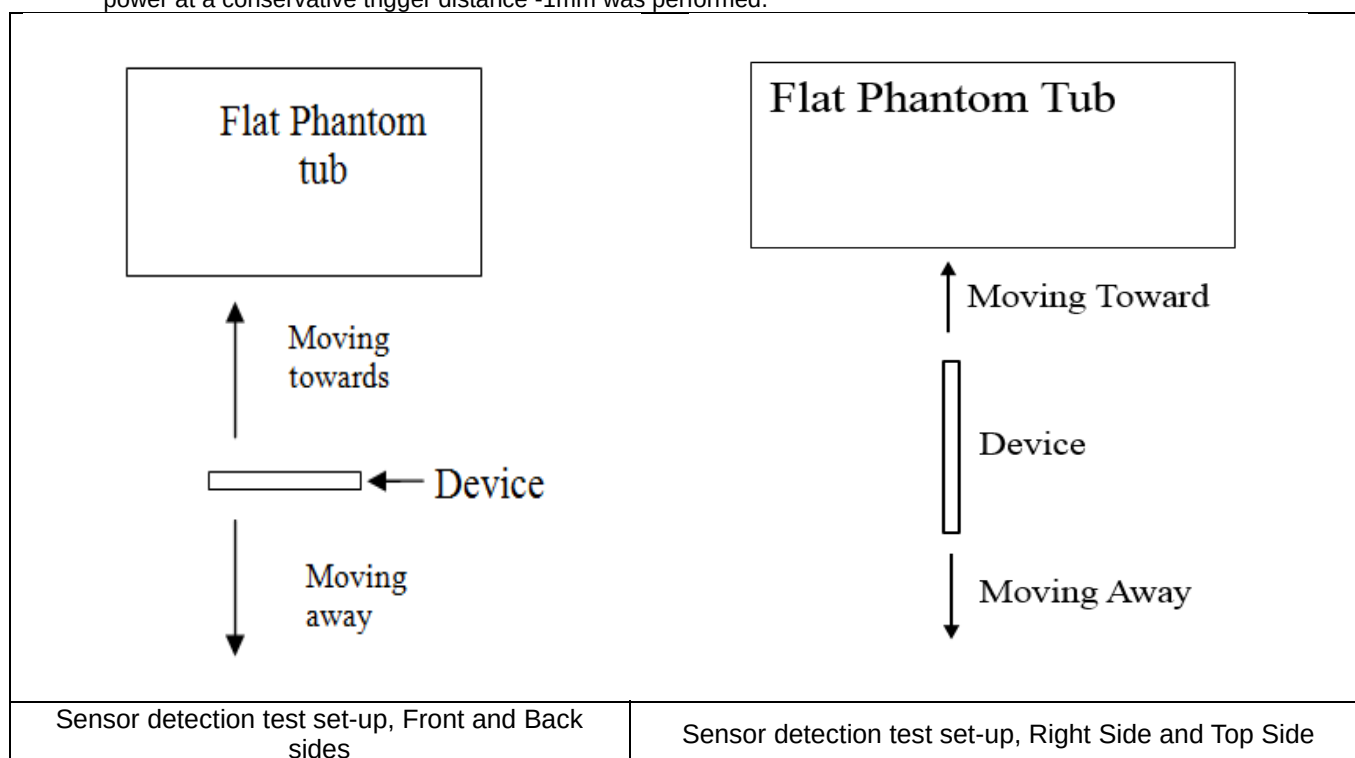
3) The max allowed output power is the P_{limit} + Total uncertainty, and if P_{limit} is higher than P_{max} , the device output power will be P_{max} instead.

4) The "OPA" Means that "Other PA" in above tables.

6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (3980MHz) and lowest (1750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body or finger or hand at the front or back or bottom or right or top side of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna.
3. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or right or bottom or top side of the device use a detection threshold distance. When front/back/top/right sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
4. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.



<Sensor for Ant 2>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Top Side		Right Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	11	11	11	11	11	11	11	11

<Sensor for Ant 3>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Top Side		Right Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving towards
Minimum	11	11	11	11	11	11	11	11

7. RF Exposure Limits

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

8. Specific Absorption Rate (SAR)

8.1 Introduction

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

8.2 SAR Definition

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

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

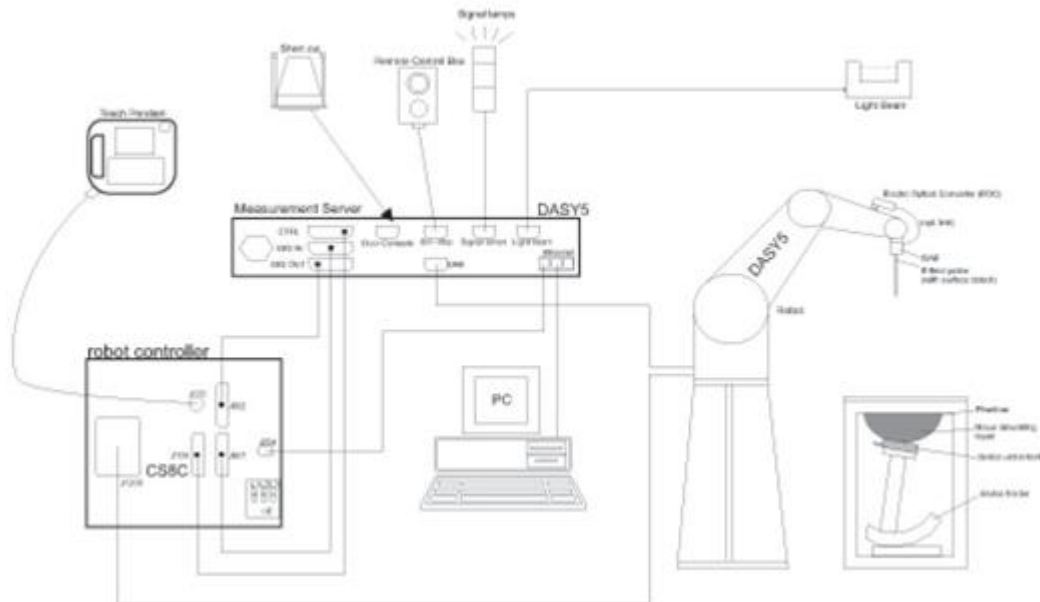
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

9. System Description and Setup

The DASY5 system used for performing compliance tests consists of the following items:



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

9.1 E-Field Probe

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

<EX3DV4 Probe>

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

9.2 Data Acquisition Electronics (DAE)

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

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



Photo of DAE

9.3 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

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

9.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the 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

10. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

10.1 Spatial Peak SAR Evaluation

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

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

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

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

10.2 Power Reference Measurement

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

10.3 Area Scan

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

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

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

10.4 Zoom Scan

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

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

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

10.5 Volume Scan Procedures

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

10.6 Power Drift Monitoring

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

11. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	4d298	Jan. 26, 2024	Jan. 24, 2026
SPEAG	1750MHz System Validation Kit	D1750V2	1090	Mar. 12, 2025	Mar. 11, 2026
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	Mar. 13, 2025	Mar. 12, 2026
SPEAG	2450MHz System Validation Kit	D2450V2	1095	Feb. 08, 2024	Feb. 06, 2026
SPEAG	2600MHz System Validation Kit	D2600V2	1112	Dec. 18, 2023	Dec. 16, 2025
SPEAG	3500MHz System Validation Kit	D3500V2	1037	Nov. 20, 2023	Nov. 17, 2026
SPEAG	3700MHz System Validation Kit	D3700V2	1008	Nov. 20, 2023	Nov. 17, 2026
SPEAG	3900MHz System Validation Kit	D3900V2	1048	Mar. 09, 2023	Mar. 06, 2026
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	Sep. 17, 2025	Sep. 16, 2026
SPEAG	Data Acquisition Electronics	DAE4	1649	Aug. 27, 2025	Aug. 26, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	Feb. 19, 2025	Feb. 18, 2026
SPEAG	SAM Twin Phantom	SAM Twin	TP-1754	None	None
Beichuang	Thermo-Hygrometer	HTC-1	1949250	Jan. 11, 2025	Jan. 10, 2026
Beichuang	Thermo-Hygrometer	HTC-1	1949246	Jan. 11, 2025	Jan. 10, 2026
Beichuang	Thermo-Hygrometer	HTC-1	1959632	May 27, 2025	May 26, 2026
Beichuang	Thermo-Hygrometer	HTC-1	1959633	May 27, 2025	May 26, 2026
SPEAG	Phone Positioner	N/A	N/A	None	None
Anritsu	Radio Communication Analyzer	MT8820C	6201563900	Jul. 02, 2025	Jul. 01, 2026
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	Jul. 02, 2025	Jul. 01, 2026
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	Feb. 24, 2025	Feb. 23, 2026
Anritsu	Vector Signal Generator	MG3710A	6201682672	Jan. 03, 2025	Jan. 02, 2026
Keysight	Preamplifier	83017A	MY57280106	Apr. 18, 2025	Apr. 17, 2026
mini-circuits	amplifier	ZVE-3W-83+	162601250	NCR	NCR
Agilent	Dual Directional Coupler	778D	20500	Jul. 02, 2025	Jul. 01, 2026
Agilent	Dual Directional Coupler	11691D	MY48151020	Jul. 02, 2025	Jul. 01, 2026
ET Industries	Dual Directional Coupler	C-058-10	N/A	NCR	NCR
ATM	Dual Directional Coupler	C122H-10	P610410z-02	NCR	NCR
Rohde & Schwarz	Power Meter	NRVD	102081	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	Jul. 02, 2025	Jul. 01, 2026
ARRA	Power Divider	A3200-2	N/A	NCR	NCR
MCL	Attenuation1	BW-S10W5+	N/A	NCR	NCR
MCL	Attenuation2	BW-S10W5+	N/A	NCR	NCR
MCL	Attenuation3	BW-S10W5+	N/A	NCR	NCR
R&S	BLUETOOTH TESTER	CBT	101246	Jul. 03, 2025	Jul. 02, 2026
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	Oct. 11, 2025	Oct. 10, 2026
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	None	None
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	None	None
TES	DIGITAC THERMOMETER	TYPE-K	220305411	Jan. 02, 2025	Jan. 01, 2026

Note:

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

12. System Verification

12.1 Tissue Simulating Liquids

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

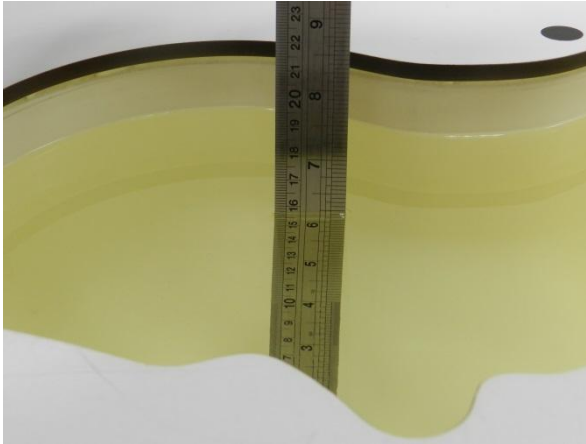


Fig 11.1 Photo of Liquid Height for Head SAR

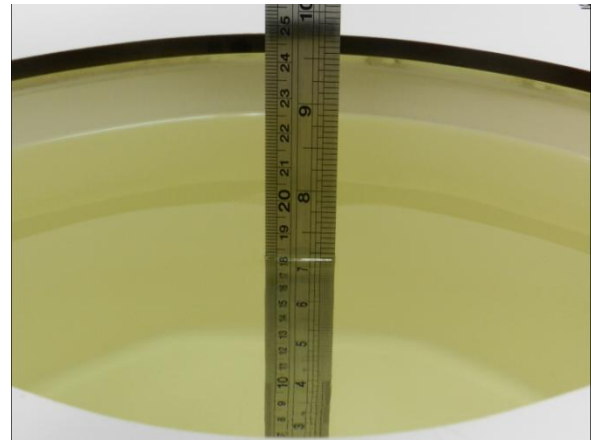


Fig 11.2 Photo of Liquid Height for Body SAR

12.2 Tissue Verification

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

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

Simulating Liquid for 5GHz, Manufactured by SPEAG

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

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
835	22.8	0.919	42.43	0.9	41.5	2.11	2.24	±5.0	2025/12/2
835	22.7	0.913	42.44	0.9	41.5	1.44	2.27	±5.0	2025/12/9
1750	22.8	1.378	40.63	1.37	40.1	0.58	1.32	±5.0	2025/12/3
1750	22.7	1.369	40.72	1.37	40.1	-0.07	1.55	±5.0	2025/12/10
1900	22.8	1.44	39.081	1.4	40	2.86	-2.3	±5.0	2025/12/4
1900	22.7	1.441	39.091	1.4	40	2.93	-2.27	±5.0	2025/12/11
2450	22.7	1.773	39.23	1.8	39.2	-1.5	0.08	±5.0	2025/12/14
2600	22.7	1.91	38.877	1.96	39	-2.55	-0.32	±5.0	2025/12/7
2600	22.7	1.903	38.827	1.96	39	-2.91	-0.44	±5.0	2025/12/13
3500	22.7	2.96	37.671	2.91	37.9	1.72	-0.6	±5.0	2025/12/15
3700	22.6	3.172	37.561	3.12	37.7	1.67	-0.37	±5.0	2025/12/16
3900	22.6	3.376	37.401	3.33	37.51	1.38	-0.29	±5.0	2025/12/17
5250	22.7	4.65	36.381	4.71	35.95	-1.27	1.2	±5.0	2025/12/20
5600	22.7	5.082	35.711	5.07	35.5	0.24	0.59	±5.0	2025/12/21
5800	22.8	5.182	35.571	5.27	35.3	-1.67	0.77	±5.0	2025/12/22

12.3 System Performance Check Results

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

Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2025/12/2	835	50	D835V2 - 4d298	EX3DV4 - SN3857	DAE4 Sn1649	0.501	9.89	10.02	1.31	0.335	6.45	6.7	3.88
2025/12/9	835	50	D835V2 - 4d298	EX3DV4 - SN3857	DAE4 Sn1649	0.506	9.89	10.12	2.33	0.341	6.45	6.82	5.74
2025/12/3	1750	50	D1750V2 - 1090	EX3DV4 - SN3857	DAE4 Sn1649	1.92	36.6	38.4	4.92	1.03	19.5	20.6	5.64
2025/12/10	1750	50	D1750V2 - 1090	EX3DV4 - SN3857	DAE4 Sn1649	1.93	36.6	38.6	5.46	1.06	19.5	21.2	8.72
2025/12/4	1900	50	D1900V2 - 5d170	EX3DV4 - SN3857	DAE4 Sn1649	1.87	39.1	37.4	-4.35	1.05	20.6	21	1.94
2025/12/11	1900	50	D1900V2 - 5d170	EX3DV4 - SN3857	DAE4 Sn1649	1.85	39.1	37	-5.37	0.995	20.6	19.9	-3.4
2025/12/14	2450	50	D2450V2 - 1095	EX3DV4 - SN3857	DAE4 Sn1649	2.51	52.6	50.2	-4.56	1.19	24.7	23.8	-3.64
2025/12/7	2600	50	D2600V2 - 1112	EX3DV4 - SN3857	DAE4 Sn1649	2.71	55.1	54.2	-1.63	1.23	24.8	24.6	-0.81
2025/12/13	2600	50	D2600V2 - 1112	EX3DV4 - SN3857	DAE4 Sn1649	2.57	55.1	51.4	-6.72	1.16	24.8	23.2	-6.45
2025/12/15	3500	50	D3500V2 - 1037	EX3DV4 - SN3857	DAE4 Sn1649	3.27	65.4	65.4	0	1.28	24.7	25.6	3.64
2025/12/16	3700	50	D3700V2 - 1008	EX3DV4 - SN3857	DAE4 Sn1649	3.29	67.2	65.8	-2.08	1.27	24.4	25.4	4.1
2025/12/17	3900	50	D3900V2 - 1048	EX3DV4 - SN3857	DAE4 Sn1649	3.37	69.1	67.4	-2.46	1.18	24.1	23.6	-2.07
2025/12/20	5250	50	D5GHZV2 - 1113	EX3DV4 - SN3857	DAE4 Sn1649	3.95	78.1	79	1.15	1.15	22.4	23	2.68
2025/12/21	5600	50	D5GHZV2 - 1113	EX3DV4 - SN3857	DAE4 Sn1649	3.81	80	76.2	-4.75	1.1	23	22	-4.35
2025/12/22	5800	50	D5GHZV2 - 1113	EX3DV4 - SN3857	DAE4 Sn1649	3.6	77.9	72	-7.57	1.05	22.3	21	-5.83

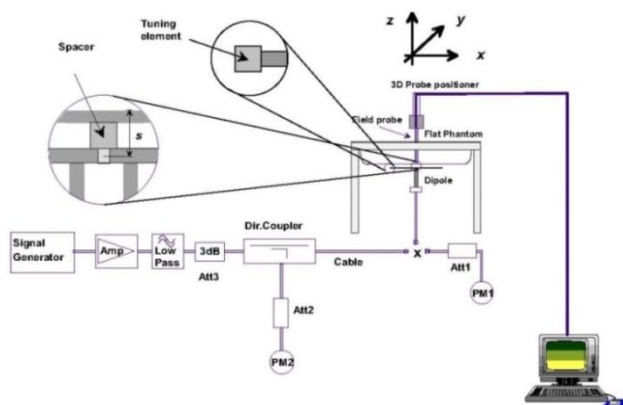


Fig 11.3.1 System Performance Check Setup



Fig 11.3.2 Setup Photo

13. RF Exposure Positions

13.1 Ear and handset reference point

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

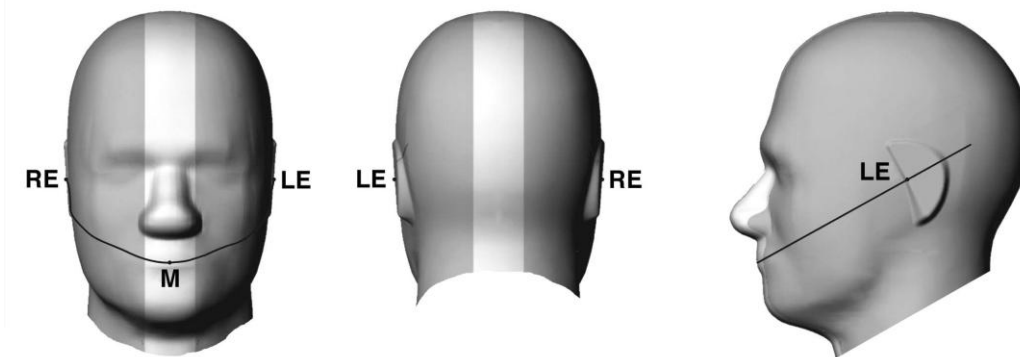


Fig 12.1.1 Front, back, and side views of SAM twin phantom

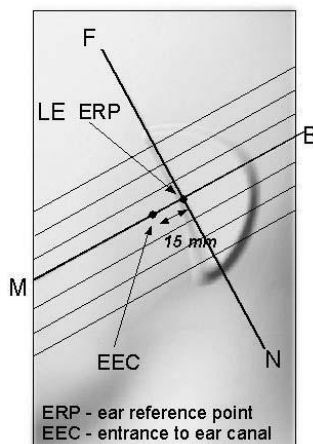


Fig 12.1.2 Close-up side view of phantom showing the ear region.

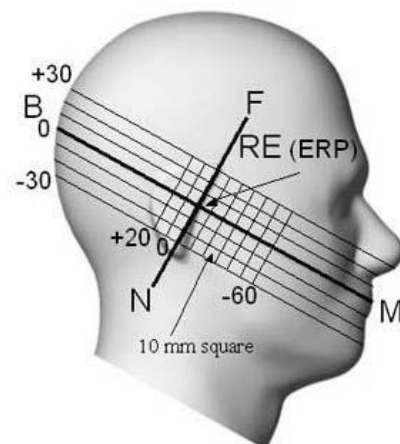


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

13.2 Definition of the cheek position

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

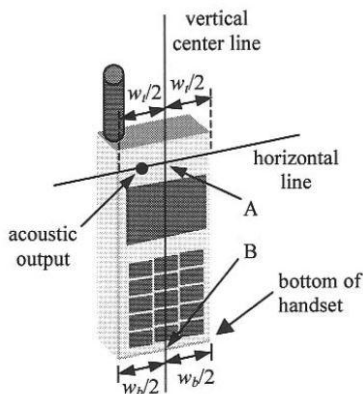


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

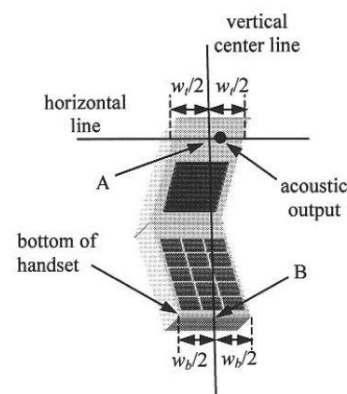


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

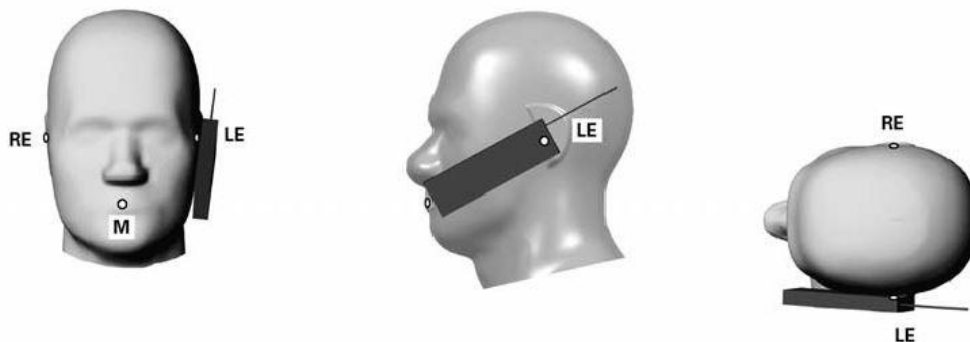


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

13.3 Definition of the tilt position

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

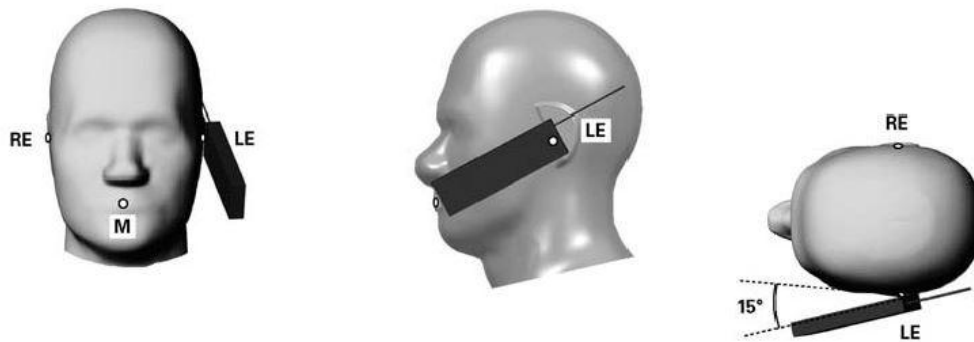


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 Body Worn Accessory

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

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

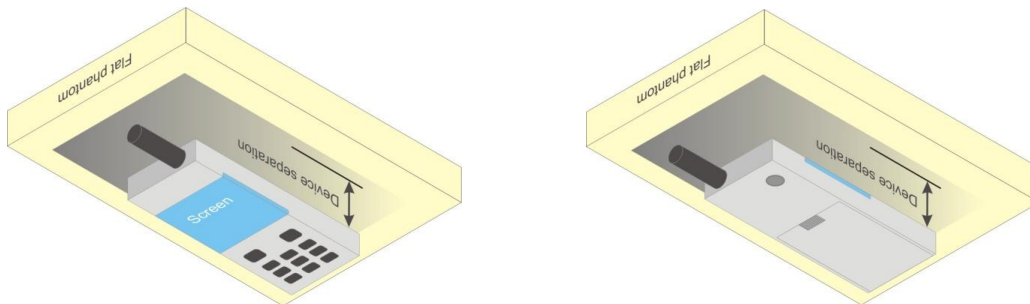


Fig 12.4 Body Worn Position

13.5 Product Specific 10g SAR Exposure

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

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

13.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ($L \times W \geq 9$ 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.

14. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

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

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_o/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{HS} = 24/15 * \beta_c$. Note 3: CM = 1 for $\beta_o/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 4: For subtest 2 the β_o/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.							

Setup Configuration

HSUPA Setup Configuration:

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

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

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

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

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

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

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

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

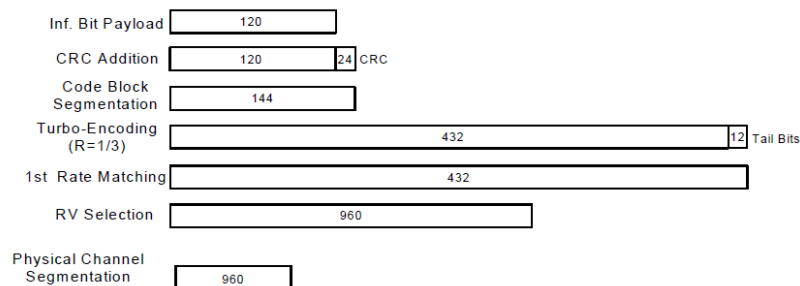


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK) Setup Configuration

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

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

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

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

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

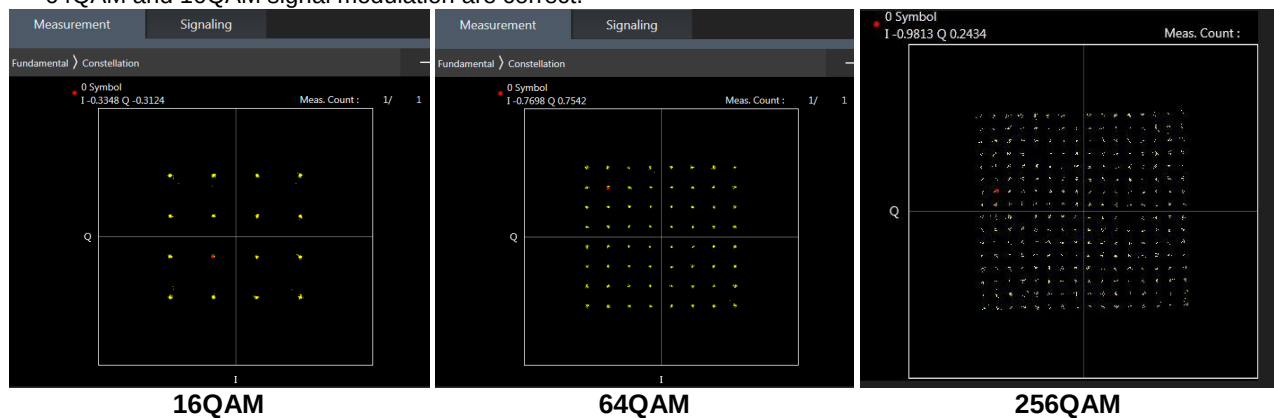
Setup Configuration
<WCDMA Conducted Power>
General Note:

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

<LTE Conducted Power>

General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B4 / B5 / B38 SAR test was covered by B66 / B26 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.



<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

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

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

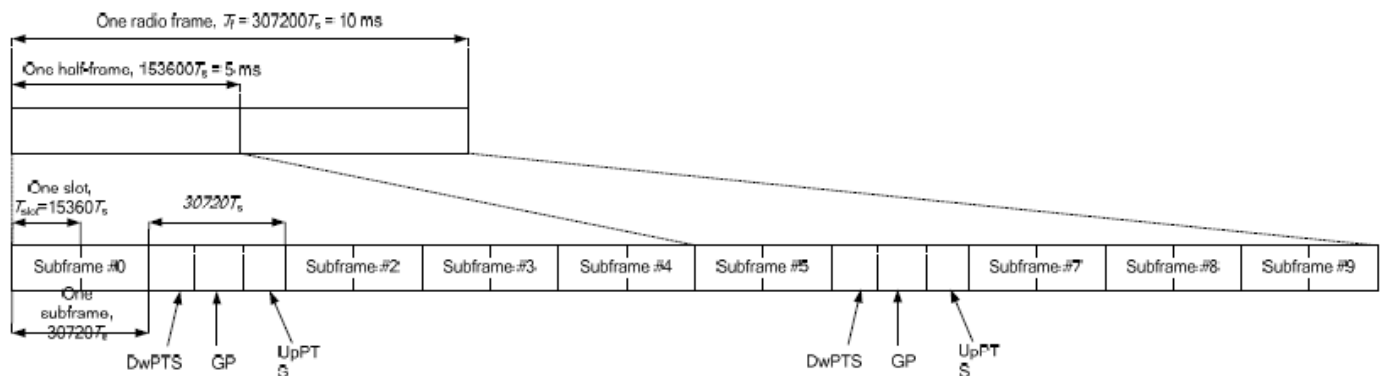


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

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

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

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

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

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

The highest duty factor is resulted from:

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

<LTE Carrier Aggregation>

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

General Note:

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

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_7C	Ant2/3/4/5
CA_38C	Ant2/3/4/5
CA_41C	Ant2/3/4/5
CA_42C	Ant1/2/3/6

<Intra-band>
General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B7/38/41/42 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iii. Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n5/n7/n66/n77 is NSA mode.
2. 5G NR n2/n5/n7/n66/n38/n41/n48/n77/n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s PI/2 BPSK and the reported SAR for the DFT-s PI/2 BPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest channel bandwidth and measure SAR for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
 - d. 50% RB allocation for PI/2 BPSK SAR testing follows 1RB PI/2 BPSK allocation procedure
 - e. PI/2 BPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
 - f. QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. For 5G NR, the simultaneous transmission analysis is used standalone SAR at total power level to show compliance.
5. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
6. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
7. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
8. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
9. When channel bandwidth of SA and NSA is same, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time. When channel bandwidth of SA and NSA is different, chose the largest channel bandwidth mode among SA and NSA to perform power measurement.
10. For the NR bands, when channel bandwidth of SA and NSA is same, and the maximum power of NSA mode is same as SA total power level, SA SAR can represent NSA mode SAR. For the NR bands, when channel bandwidth of SA and NSA is different, choose the largest channel bandwidth with maximum power to perform SAR testing, so the largest channel bandwidth SAR can represent the smallest channel bandwidth SAR.
11. For 5G NR n77/n78 HPUE, 5G NR n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission.
12. This device supports HPUE mode for 5G NR n77/n78 with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.

<3GPP 38.101 MPR for EN-DC>

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

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

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

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

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

<EN-DC combination>

ENDC	2CC Uplink Carrier Aggregation	
Inter-band	LTE Antenna Tx	FR1 Antenna Tx
DC_5A_n78A	B5:ANT0/1	n78A:ANT2/3/1/6
DC_26A_n78A	B26:ANT0/1	n78A:ANT2/3/1/6
DC_7A_n78A	B7:ANT4/5/2/3	n78A:ANT2/3/1/6
DC_5A_n7A	B5:ANT0/1	n7A:ANT4/5/2/3
DC_7A_n5A	B7:ANT4/5/2/3	n5A:ANT0/1
DC_66A_n5A	B66:Ant: 4/5/2/3	n5A:Ant: 0/1
DC_38A_n78A	B38:ANT4/5/2/3	n78A:ANT2/3/1/6
DC_41A_n78A	B41:ANT4/5/2/3	n78A:ANT2/3/1/6
DC_2A_n78A	B2:ANT2/3/4/5	n78A:ANT2/3/1/6
DC_5A_n66A	B5:ANT0/1	n66:ANT2/3/4/5

<WLAN Conducted Power>

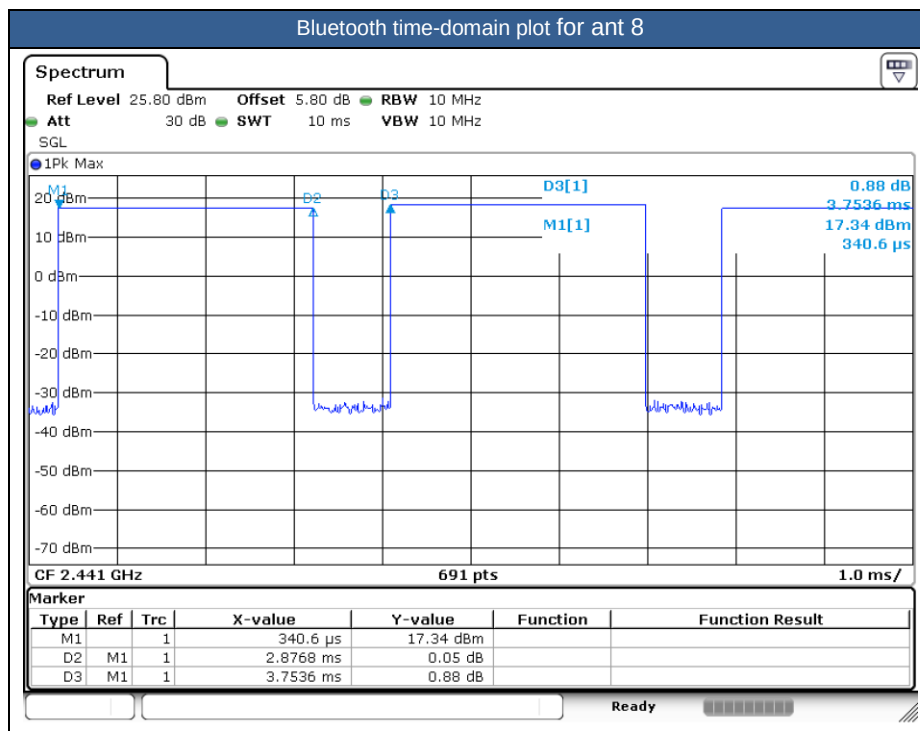
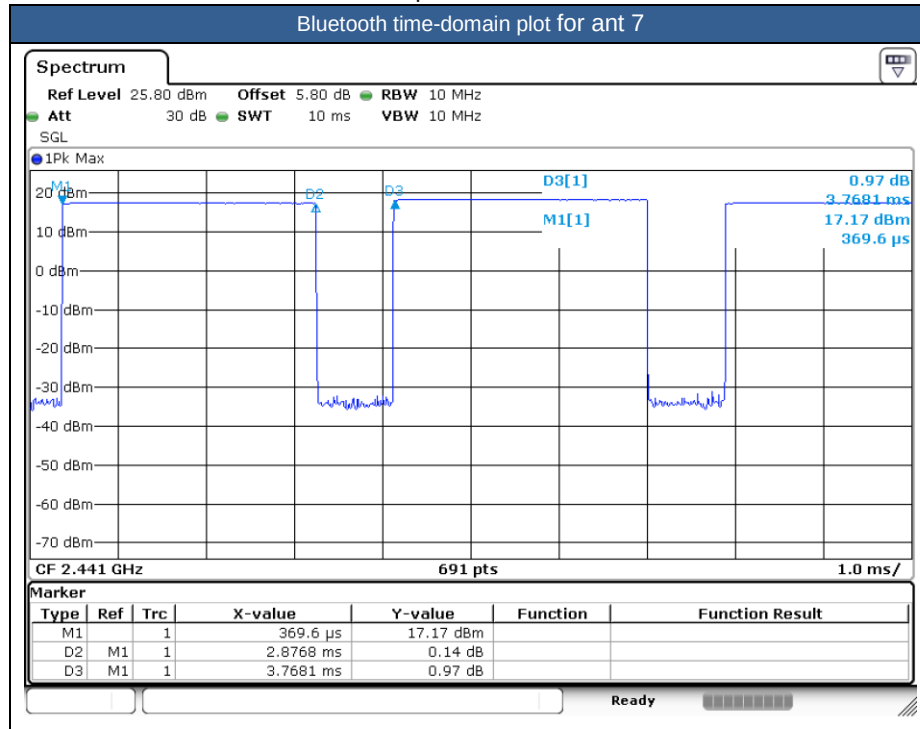
General Note:

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. 802.11 ax/be supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.
7. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, 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 the WLAN 2.4G SISO antenna.
8. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of two antennas respectively to calculate sum of the power for MIMO mode.

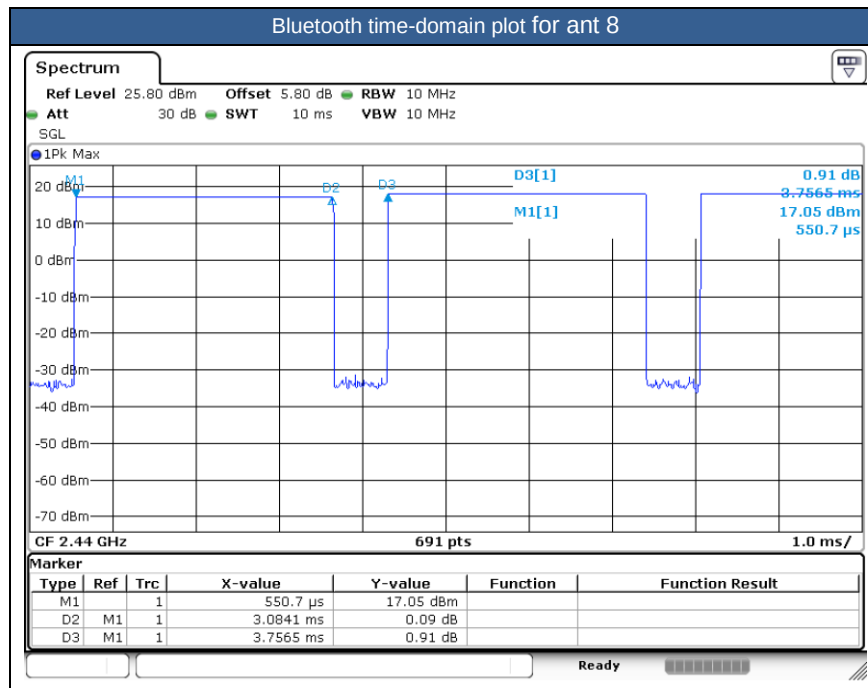
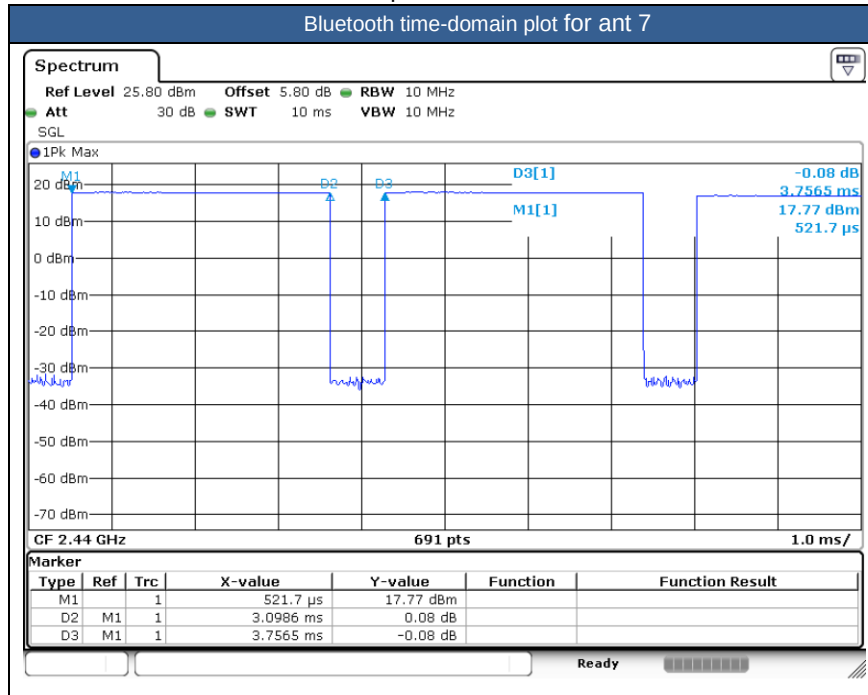
<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth 1Mbps duty cycle are 76.35% for ant 7 and 76.64% for ant 8 as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.



3. The Bluetooth LE 125kbps duty cycle are 82.49% for ant 7 and 82.1% for ant 8 as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.





15. Antenna Location

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

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the MediaTek TA-SAR will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
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 (for handheld on state, the maximum full power means reduced power), including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - b. 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. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
8. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.
9. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based)
10. LTE B7/38/41 and 5GNR n7/n38/n41 at ant2/3/4/5 and LTE B5/26 at ant0/1support different PAs for same antennas. And some LTE/NR bands support Other PA only under ENDC& UL CA. Some LTE/NR bands support different PAs for some antennas, whether it is the maximum power of Main PA is higher than and very close to the 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 another PA verified the worst case.

GSM Note:

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

WCDMA Note:

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

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/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 / 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 B4 / B5 / B38 SAR test was covered by B66 / B26 / 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 PI/2 BPSK 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 PI/2 BPSK SAR testing follows 1RB PI/2 BPSK allocation procedure.
 - c. PI/2 BPSK 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. QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK /16QAM /64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - f. For 5G FR1 n2/n5/n66/n38/n41 /n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

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

ECI status description:

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

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

Exposure Condition	ECI	Trigger conditions
Head SAR	ECI1	Earpiece On
Hotspot SAR	ECI5	Hotspot On
Body worn SAR	ECI4	Sensor Off/ receiver off
Extremity SAR	ECI3	Sensor On
Extremity SAR (Sensor Trigger Distance -1mm)	ECI4	Sensor Off/ receiver off



16.1 Head SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 4 Tx slots	Right Cheek	0mm	Ant 0	ECI 1	Main PA	189	836.4	26.38	27.50	1.294	-0.05	0.143	0.185
	GSM850	GPRS 4 Tx slots	Right Tilted	0mm	Ant 0	ECI 1	Main PA	189	836.4	26.38	27.50	1.294	-0.06	0.100	0.129
	GSM850	GPRS 4 Tx slots	Left Cheek	0mm	Ant 0	ECI 1	Main PA	189	836.4	26.38	27.50	1.294	0.01	0.161	0.208
	GSM850	GPRS 4 Tx slots	Left Tilted	0mm	Ant 0	ECI 1	Main PA	189	836.4	26.38	27.50	1.294	-0.14	0.085	0.110
	GSM850	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	ECI 1	Main PA	189	836.4	22.34	23.50	1.306	0.06	0.305	0.398
	GSM850	GPRS 4 Tx slots	Right Tilted	0mm	Ant 1	ECI 1	Main PA	189	836.4	22.34	23.50	1.306	-0.11	0.055	0.072
01	GSM850	GPRS 4 Tx slots	Left Cheek	0mm	Ant 1	ECI 1	Main PA	189	836.4	22.34	23.50	1.306	0.16	0.478	0.624
	GSM850	GPRS 4 Tx slots	Left Tilted	0mm	Ant 1	ECI 1	Main PA	189	836.4	22.34	23.50	1.306	-0.03	0.059	0.077
	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 2	ECI 1	Main PA	661	1880	21.78	22.50	1.18	-0.10	0.721	0.851
02	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 2	ECI 1	Main PA	512	1850.2	21.66	22.50	1.213	-0.08	0.764	0.927
	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 2	ECI 1	Main PA	810	1909.8	21.70	22.50	1.202	-0.19	0.641	0.770
	GSM1900	GPRS 4 Tx slots	Right Tilted	0mm	Ant 2	ECI 1	Main PA	661	1880	21.78	22.50	1.18	0.05	0.672	0.793
	GSM1900	GPRS 4 Tx slots	Left Cheek	0mm	Ant 2	ECI 1	Main PA	661	1880	21.78	22.50	1.18	-0.14	0.397	0.468
	GSM1900	GPRS 4 Tx slots	Left Tilted	0mm	Ant 2	ECI 1	Main PA	661	1880	21.78	22.50	1.18	-0.01	0.492	0.581
	GSM1900	GPRS 4 Tx slots	Right Cheek	0mm	Ant 3	ECI 1	Main PA	661	1880	22.23	22.50	1.064	-0.01	0.561	0.597
	GSM1900	GPRS 4 Tx slots	Right Tilted	0mm	Ant 3	ECI 1	Main PA	661	1880	22.23	22.50	1.064	-0.08	0.076	0.081
	GSM1900	GPRS 4 Tx slots	Left Cheek	0mm	Ant 3	ECI 1	Main PA	661	1880	22.23	22.50	1.064	0.03	0.671	0.714
	GSM1900	GPRS 4 Tx slots	Left Tilted	0mm	Ant 3	ECI 1	Main PA	661	1880	22.23	22.50	1.064	0.12	0.144	0.153

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI 1	Main PA	9400	1880	22.55	23.50	1.245	-0.14	0.670	0.834
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI 1	Main PA	9262	1852.4	22.48	23.50	1.265	-0.10	0.570	0.721
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI 1	Main PA	9538	1907.6	22.51	23.50	1.256	-0.06	0.751	0.943
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI 1	Main PA	9400	1880	22.55	23.50	1.245	-0.13	0.676	0.842
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI 1	Main PA	9262	1852.4	22.48	23.50	1.265	0.11	0.586	0.741
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI 1	Main PA	9538	1907.6	22.51	23.50	1.256	0.06	0.750	0.942
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI 1	Main PA	9400	1880	22.55	23.50	1.245	0.16	0.395	0.492
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI 1	Main PA	9400	1880	22.55	23.50	1.245	-0.03	0.480	0.598
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	ECI 1	Main PA	9400	1880	18.08	19.50	1.387	-0.17	0.573	0.795
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	ECI 1	Main PA	9400	1880	18.08	19.50	1.387	-0.14	0.083	0.115
03	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	ECI 1	Main PA	9400	1880	18.08	19.50	1.387	0.03	0.706	0.979
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	ECI 1	Main PA	9262	1852.4	18.05	19.50	1.396	-0.03	0.650	0.907
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	ECI 1	Main PA	9538	1907.6	17.98	19.50	1.419	0.08	0.573	0.813
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 3	ECI 1	Main PA	9400	1880	18.08	19.50	1.387	-0.05	0.165	0.229
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI 1	Main PA	1413	1732.6	17.59	18.50	1.233	0.08	0.820	1.011
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI 1	Main PA	1312	1712.4	17.52	18.50	1.253	0.08	0.783	0.981
04	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	ECI 1	Main PA	1513	1752.6	17.51	18.50	1.256	0.07	0.860	1.080
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI 1	Main PA	1413	1732.6	17.59	18.50	1.233	-0.18	0.785	0.968
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI 1	Main PA	1312	1712.4	17.52	18.50	1.253	0.03	0.740	0.927
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	ECI 1	Main PA	1513	1752.6	17.51	18.50	1.256	0.16	0.825	1.036
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	ECI 1	Main PA	1413	1732.6	17.59	18.50	1.233	0.09	0.431	0.531
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	ECI 1	Main PA	1413	1732.6	17.59	18.50	1.233	0.04	0.514	0.634
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 3	ECI 1	Main PA	1413	1732.6	23.69	25.50	1.517	0.18	0.177	0.269
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 3	ECI 1	Main PA	1413	1732.6	23.69	25.50	1.517	0.03	0.001	0.002
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 3	ECI 1	Main PA	1413	1732.6	23.69	25.50	1.517	0.01	0.239	0.363
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 3	ECI 1	Main PA	1413	1732.6	23.69	25.50	1.517	-0.04	0.001	0.002
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	ECI 1	Main PA	4182	836.4	23.52	25.00	1.406	0.02	0.210	0.295
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	ECI 1	Main PA	4182	836.4	23.52	25.00	1.406	0.03	0.139	0.195
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	ECI 1	Main PA	4182	836.4	23.52	25.00	1.406	0.03	0.226	0.318
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	ECI 1	Main PA	4182	836.4	23.52	25.00	1.406	0.01	0.115	0.162
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	ECI 1	Main PA	4182	836.4	20.05	21.50	1.396	-0.05	0.409	0.571
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	ECI 1	Main PA	4182	836.4	20.05	21.50	1.396	-0.15	0.073	0.102
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI 1	Main PA	4182	836.4	20.05	21.50	1.396	-0.12	0.583	0.814
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI 1	Main PA	4132	826.4	19.99	21.50	1.416	0.15	0.474	0.671
05	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	ECI 1	Main PA	4233	846.6	20.02	21.50	1.406	0.01	0.664	0.934
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	ECI 1	Main PA	4182	836.4	20.05	21.50	1.396	-0.03	0.085	0.119



【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	Code(No.)	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)
06	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	18900	1880	-	18.15	19.00	1.216			-0.06	0.797	0.969
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	18700	1860	-	18.13	19.00	1.222			-0.16	0.488	0.596
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	19100	1900	-	18.12	19.00	1.225			-0.19	0.703	0.861
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	18900	1880	-	17.99	19.00	1.262			-0.11	0.639	0.806
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	18700	1860	-	17.91	19.00	1.285			0.02	0.488	0.627
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	19100	1900	-	17.93	19.00	1.279			0.11	0.577	0.738
	LTE Band 2	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	18900	1880	-	18.02	19.00	1.253			-0.07	0.619	0.776
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	18900	1880	-	18.15	19.00	1.216			0.11	0.765	0.930
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	18700	1860	-	18.13	19.00	1.222			0.00	0.480	0.587
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	19100	1900	-	18.12	19.00	1.225			0.15	0.671	0.822
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	18900	1880	-	17.99	19.00	1.262			-0.15	0.614	0.775
	LTE Band 2	20M	QPSK	100	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	18900	1880	-	18.02	19.00	1.253			0.14	0.599	0.751
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	ECI 1	Main PA	18900	1880	-	18.15	19.00	1.216			-0.10	0.380	0.462
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	ECI 1	Main PA	18900	1880	-	17.99	19.00	1.262			0.05	0.307	0.387
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	ECI 1	Main PA	18900	1880	-	18.15	19.00	1.216			-0.01	0.498	0.606
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	ECI 1	Main PA	18900	1880	-	17.99	19.00	1.262			0.08	0.408	0.515
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	18900	1880	-	20.68	22.00	1.355			0.03	0.366	0.496
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	18900	1880	-	20.57	22.00	1.39			0.11	0.295	0.410
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	18900	1880	-	20.68	22.00	1.355			0.10	0.047	0.064
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	18900	1880	-	20.57	22.00	1.39			0.11	0.038	0.053
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	18900	1880	-	20.68	22.00	1.355			0.16	0.508	0.688
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	18900	1880	-	20.57	22.00	1.39			-0.01	0.406	0.564
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	18900	1880	-	20.68	22.00	1.355			-0.00	0.083	0.112
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	18900	1880	-	20.57	22.00	1.39			-0.07	0.067	0.093
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	18900	1880	-	15.23	16.50	1.34			0.01	0.573	0.768
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	18900	1880	-	15.21	16.50	1.346			-0.10	0.438	0.590
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	ECI 1	Main PA	18900	1880	-	15.23	16.50	1.34			0.10	0.244	0.327
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	ECI 1	Main PA	18900	1880	-	15.21	16.50	1.346			-0.10	0.196	0.264
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	ECI 1	Main PA	18900	1880	-	15.23	16.50	1.34			-0.05	0.138	0.185
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	ECI 1	Main PA	18900	1880	-	15.21	16.50	1.346			0.19	0.131	0.176
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	ECI 1	Main PA	18900	1880	-	15.23	16.50	1.34			0.04	0.100	0.134
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	ECI 1	Main PA	18900	1880	-	15.21	16.50	1.346			-0.12	0.061	0.082
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	ECI 1	Main PA	18900	1880	-	24.05	25.50	1.396			0.02	0.085	0.119
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	ECI 1	Main PA	18900	1880	-	23.11	24.50	1.377			0.11	0.075	0.103
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	ECI 1	Main PA	18900	1880	-	24.05	25.50	1.396			-0.07	0.001	0.001
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	ECI 1	Main PA	18900	1880	-	23.11	24.50	1.377			-0.13	0.001	0.001
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	ECI 1	Main PA	18900	1880	-	24.05	25.50	1.396			-0.07	0.084	0.117
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	ECI 1	Main PA	18900	1880	-	23.11	24.50	1.377			-0.19	0.075	0.103
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	ECI 1	Main PA	18900	1880	-	24.05	25.50	1.396			-0.08	0.051	0.071
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	ECI 1	Main PA	18900	1880	-	23.11	24.50	1.377			0.19	0.043	0.059
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1-1	Other PA	21100	2535	-	15.21	16.50	1.346			-0.03	0.651	0.876
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1-1	Other PA	20850	2510	-	15.17	16.50	1.358			0.02	0.605	0.822
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1-1	Other PA	21350	2560	-	15.18	16.50	1.355			0.03	0.601	0.814
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1-1	Other PA	21100	2535	-	15.18	16.50	1.355			0.05	0.518	0.702
	LTE Band 7	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	ECI 1-1	Other PA	21100	2535	-	14.98	16.50	1.419			0.01	0.508	0.721
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1-1	Other PA	21100	2535	-	15.21	16.50	1.346			0.01	0.708	0.953
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1-1	Other PA	20850	2510	-	15.17	16.50	1.358			-0.03	0.679	0.922
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1-1	Other PA	21350	2560	-	15.18	16.50	1.355			-0.04	0.239	0.324
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1-1	Other PA	21100	2535	-	15.18	16.50	1.355			-0.16	0.547	0.741
	LTE Band 7	20M	QPSK	100	0	Right Tilted	0mm	Ant 2	ECI 1-1	Other PA	21100	2535	-	14.98	16.50	1.419			-0.08	0.560	0.795
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	ECI 1-1	Other PA	21100	2535	-	15.21	16.50	1.346			-0.12	0.326	0.439
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	ECI 1-1	Other PA	21100	2535	-	15.18	16.50	1.355			-0.09	0.262	0.355
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	ECI 1-1	Other PA	21100	2535	-	15.21	16.50	1.346			-0.19	0.431	0.580
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	ECI 1-1	Other PA	21100	2535	-	15.18	16.50	1.355			0.01	0.347	0.470
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	21100	2535	-	15.28	16.00	1.18			0.05	0.628	0.741
	LTE Band 7	20M	QPSK	1	99	Right Tilted	0mm	Ant 2	ECI 1	Main PA	21100+2535+21298	2554.8	-	15.21	16.00	1.199			0.01	0.651	0.781
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	21100	2535	-	19.71	21.00	1.346			0.16	0.407	0.548
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	21100	2535	-	19.69	21.00	1.352			-0.09	0.341	0.461
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	21100	2535	-	19.71	21.00	1.346			-0.16	0.050	0.067
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	21100	2535	-	19.69	21.00	1.352			-0.06	0.040	0.054
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	21100	2535	-	19.71	21.00	1.346			0.06	0.606	0.816
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	20850	2510	-	19.57	21.00	1.39			0.01	0.558	0.776
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	21350	2560	-	19.69	21.00	1.352			0.02	0.521	0.704
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	21100	2535	-	19.69	21.00	1.352			-0.01	0.446	0.603
	LTE Band 7	20M	QPSK	100	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	21100	2535	-	19.57	21.00	1.39			0.03	0.489	0.680
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1-1	Other PA	21100	2535	-	19.62	21.00	1.374			0.01	0.548	0.753
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	21100	2535	-	19.71	21.00	1.346			0.00	0.061	0.082



FCC SAR Test Report

Report No. : FA5N1302

	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	21100	2535	-	19.69	21.00	1.352			0.10	0.048	0.065
	LTE Band 7	20M	QPSK	1	99	Left Cheek	0mm	Ant 3	ECI 1	Main PA	21100+ 21298	2535+ 2554.8	-	19.59	21.00	1.384			0.01	0.571	0.790
07	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	21100	2535	-	17.99	19.20	1.321			-0.13	0.798	1.054
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	20850	2510	-	17.85	19.20	1.365			-0.09	0.714	0.975
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	21350	2560	-	17.98	19.20	1.324			-0.01	0.763	1.010
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	21100	2535	-	17.95	19.20	1.334			-0.16	0.699	0.932
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	20850	2510	-	17.94	19.20	1.337			0.01	0.651	0.870
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	21350	2560	-	17.94	19.20	1.337			0.02	0.605	0.809
	LTE Band 7	20M	QPSK	100	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	21100	2535	-	17.87	19.20	1.358			-0.18	0.702	0.953
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1-1	Other PA	21100	2535	-	17.94	18.70	1.191			-0.11	0.738	0.879
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	ECI 1	Main PA	21100	2535	-	17.99	19.20	1.321			0.18	0.254	0.336
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	ECI 1	Main PA	21100	2535	-	17.95	19.20	1.334			0.08	0.238	0.317
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	ECI 1	Main PA	21100	2535	-	17.99	19.20	1.321			0.04	0.240	0.317
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	ECI 1	Main PA	21100	2535	-	17.95	19.20	1.334			-0.19	0.224	0.299
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	ECI 1	Main PA	21100	2535	-	17.99	19.20	1.321			-0.12	0.104	0.137
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	ECI 1	Main PA	21100	2535	-	17.95	19.20	1.334			-0.02	0.097	0.129
	LTE Band 7	20M	QPSK	1	99	Right Cheek	0mm	Ant 4	ECI 1	Main PA	21100+ 21298	2535+ 2554.8	-	17.85	19.20	1.365			0.01	0.659	0.900
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	ECI 1	Main PA	21100	2535	-	23.75	25.00	1.334			0.02	0.125	0.167
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	ECI 1	Main PA	21100	2535	-	22.83	24.00	1.309			-0.19	0.100	0.131
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	ECI 1	Main PA	21100	2535	-	23.75	25.00	1.334			-0.14	0.056	0.075
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	ECI 1	Main PA	21100	2535	-	22.83	24.00	1.309			-0.03	0.042	0.055
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	ECI 1	Main PA	21100	2535	-	23.75	25.00	1.334			0.01	0.175	0.233
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	ECI 1	Main PA	21100	2535	-	22.83	24.00	1.309			-0.14	0.143	0.187
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	ECI 1-1	Other PA	21100	2535	-	23.45	24.50	1.274			-0.16	0.170	0.217
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	ECI 1	Main PA	21100	2535	-	23.75	25.00	1.334			0.02	0.044	0.059
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	ECI 1	Main PA	21100	2535	-	22.83	24.00	1.309			-0.16	0.033	0.043
	LTE Band 7	20M	QPSK	1	99	Left Cheek	0mm	Ant 5	ECI 1	Main PA	21100+ 21298	2535+ 2554.8	-	23.69	25.00	1.352			0.01	0.101	0.137
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 0	ECI 1	Main PA	26865	831.5	code 34	24.46	25.50	1.271			0.01	0.229	0.291
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 0	ECI 1	Main PA	26865	831.5	code 34	23.49	24.50	1.262			0.13	0.169	0.213
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 0	ECI 1-1	Other PA	26865	831.5	code 34	24.10	25.00	1.23			-0.14	0.176	0.216
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 0	ECI 1	Main PA	26865	831.5	code 34	24.46	25.50	1.271			0.00	0.160	0.203
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 0	ECI 1	Main PA	26865	831.5	code 34	23.49	24.50	1.262			0.13	0.126	0.159
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 0	ECI 1	Main PA	26865	831.5	code 34	24.46	25.50	1.271			-0.04	0.093	0.118
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 0	ECI 1	Main PA	26865	831.5	code 34	23.49	24.50	1.262			0.02	0.196	0.247
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 0	ECI 1	Main PA	26865	831.5	code 34	24.46	25.50	1.271			0.02	0.139	0.177
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 0	ECI 1	Main PA	26865	831.5	code 34	23.49	24.50	1.262			0.02	0.107	0.135
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 0	ECI 1	Main PA	26865	831.5	code 78	24.46	25.50	1.271			0.02	0.093	0.118
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	26865	831.5	code 0	21.05	22.00	1.245			-0.00	0.529	0.659
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	26865	831.5	code 0	21.03	22.00	1.25			-0.10	0.416	0.520
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 1	ECI 1	Main PA	26865	831.5	code 0	21.05	22.00	1.245			0.15	0.103	0.128
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 1	ECI 1	Main PA	26865	831.5	code 0	21.03	22.00	1.25			-0.15	0.078	0.098
08	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	ECI 1	Main PA	26865	831.5	code 0	21.05	22.00	1.245			-0.01	0.727	0.905
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 1	ECI 1	Main PA	26865	831.5	code 0	21.03	22.00	1.25			0.17	0.580	0.725
	LTE Band 26	15M	QPSK	75	0	Left Cheek	0mm	Ant 1	ECI 1	Main PA	26865	831.5	code 0	20.92	22.00	1.282			0.12	0.574	0.736
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 1	ECI 1	Main PA	26865	831.5	code 0	21.05	22.00	1.245			-0.08	0.109	0.136
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 1	ECI 1	Main PA	26865	831.5	code 0	21.03	22.00	1.25			-0.14	0.087	0.109
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	ECI 1	Main PA	26865	831.5	code 1	21.05	22.00	1.245			-0.05	0.156	0.194
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	ECI 1-1	Other PA	26865	831.5	code 0	21.03	22.00	1.25			0.14	0.651	0.814
09	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	132322	1745	-	17.90	19.00	1.288			-0.05	0.832	1.072
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	132072	1720	-	17.89	19.00	1.291			0.12	0.729	0.941
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	132572	1770	-	17.86	19.00	1.3			-0.05	0.802	1.043
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	132322	1745	-	17.85	19.00	1.303			0.16	0.631	0.822
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	132072	1720	-	17.83	19.00	1.309			-0.19	0.578	0.757
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	132572	1770	-	17.81	19.00	1.315			-0.14	0.666	0.876
	LTE Band 66	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	132322	1745	-	17.75	19.00	1.334			-0.12	0.626	0.835
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	132322	1745	-	17.90	19.00	1.288			-0.17	0.747	0.962
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	132072	1720	-	17.89	19.00	1.291			0.09	0.668	0.862
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	132572	1770	-	17.86	19.00	1.3			-0.08	0.775	1.008
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	132322	1745	-	17.85	19.00	1.303			-0.08	0.585	0.762
	LTE Band 66	20M	QPSK	100	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	132322	1745	-	17.75	19.00	1.334			0.14	0.585	0.780
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	ECI 1	Main PA	132322	1745	-	17.90	19.00	1.288			0.02	0.405	0.522
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	ECI 1	Main PA	132322	1745	-	17.85	19.00	1.303			0.09	0.315	0.410
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	ECI 1	Main PA	132322	1745	-	17.90	19.00	1.288			0.14	0.493	0.635
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	ECI 1	Main PA	132322	1745	-	17.85	19.00	1.303			0.07	0.388	0.506
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	132572	1770	code B4	24.79	25.50	1.178			0.18	0.628	0.740
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	132572	1770	code 96	24.79	25.50	1.178			0.06	0.567	0.668
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	132322	1745	-	18.87	20.20	1.358			-0.02	0.551	0.748
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	132322	1745	-	18.86	20.20	1.361			0.13	0.427	0.581
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	132322	1745	-	18.87	2						



FCC SAR Test Report

Report No. : FA5N1302

	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	132572	1770	-	18.76	20.20	1.393			0.17	0.716	0.997
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	132322	1745	-	18.86	20.20	1.361			0.02	0.602	0.819
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	132072	1720	-	18.85	20.20	1.365			-0.06	0.567	0.774
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	132572	1770	-	18.84	20.20	1.368			-0.09	0.589	0.806
	LTE Band 66	20M	QPSK	100	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	132322	1745	-	18.75	20.20	1.396			0.10	0.609	0.850
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	132322	1745	-	18.87	20.20	1.358			-0.02	0.126	0.171
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	132322	1745	-	18.86	20.20	1.361			-0.02	0.099	0.135
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	132322	1745	-	18.87	20.20	1.358			0.01	0.185	0.251
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	132322	1745	-	18.24	18.70	1.112			-0.16	0.770	0.856
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	132072	1720	-	18.15	18.70	1.135			0.15	0.731	0.830
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	132572	1770	-	18.04	18.70	1.164			-0.03	0.785	0.914
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	132322	1745	-	18.20	18.70	1.122			0.18	0.602	0.675
	LTE Band 66	20M	QPSK	100	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	132322	1745	-	18.09	18.70	1.151			0.14	0.605	0.696
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	ECI 1	Main PA	132322	1745	-	18.24	18.70	1.112			-0.07	0.313	0.348
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	ECI 1	Main PA	132322	1745	-	18.20	18.70	1.122			0.08	0.244	0.274
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	ECI 1	Main PA	132322	1745	-	18.24	18.70	1.112			0.12	0.257	0.286
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	ECI 1	Main PA	132322	1745	-	18.20	18.70	1.122			-0.18	0.198	0.222
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	ECI 1	Main PA	132322	1745	-	18.24	18.70	1.112			-0.19	0.175	0.195
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	ECI 1	Main PA	132322	1745	-	18.20	18.70	1.122			0.18	0.135	0.151
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	ECI 1	Main PA	132322	1745	-	24.09	25.50	1.384			0.01	0.141	0.195
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	ECI 1	Main PA	132322	1745	-	23.21	24.50	1.346			-0.03	0.109	0.147
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	ECI 1	Main PA	132322	1745	-	24.09	25.50	1.384			-0.11	0.075	0.104
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	ECI 1	Main PA	132322	1745	-	23.21	24.50	1.346			-0.16	0.059	0.079
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	ECI 1	Main PA	132322	1745	-	24.09	25.50	1.384			0.04	0.126	0.174
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	ECI 1	Main PA	132322	1745	-	23.21	24.50	1.346			0.02	0.100	0.135
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	ECI 1	Main PA	132322	1745	-	24.09	25.50	1.384			-0.13	0.073	0.101
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	ECI 1	Main PA	132322	1745	-	23.21	24.50	1.346			-0.10	0.058	0.078
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	40620	2593	-	18.50	19.00	1.122	62.9	1.006	-0.09	0.622	0.702
10	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	39750	2506	-	18.40	19.00	1.148	62.9	1.006	0.06	0.866	1.000
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	40185	2549.5	-	18.49	19.00	1.125	62.9	1.006	-0.19	0.692	0.783
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	41055	2636.5	-	18.46	19.00	1.132	62.9	1.006	-0.14	0.433	0.493
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	41490	2680	-	18.36	19.00	1.159	62.9	1.006	0.02	0.457	0.533
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	40620	2593	-	18.49	19.00	1.125	62.9	1.006	-0.19	0.489	0.553
	LTE Band 41	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	40620	2593	-	18.35	19.00	1.161	62.9	1.006	-0.09	0.489	0.571
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	40620	2593	-	18.50	19.00	1.122	62.9	1.006	-0.05	0.680	0.768
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	39750	2506	-	18.40	19.00	1.148	62.9	1.006	0.05	0.767	0.886
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	40185	2549.5	-	18.49	19.00	1.125	62.9	1.006	-0.05	0.710	0.804
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	41055	2636.5	-	18.46	19.00	1.132	62.9	1.006	0.19	0.513	0.584
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	41490	2680	-	18.36	19.00	1.159	62.9	1.006	-0.18	0.535	0.624
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	40620	2593	-	18.49	19.00	1.125	62.9	1.006	-0.19	0.532	0.602
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	39750	2506	-	18.48	19.00	1.127	62.9	1.006	0.08	0.627	0.711
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	40185	2549.5	-	18.46	19.00	1.132	62.9	1.006	-0.09	0.568	0.647
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	41055	2636.5	-	18.43	19.00	1.14	62.9	1.006	-0.05	0.402	0.461
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	41490	2680	-	18.41	19.00	1.146	62.9	1.006	0.16	0.423	0.488
	LTE Band 41	20M	QPSK	100	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	40620	2593	-	18.35	19.00	1.161	62.9	1.006	-0.14	0.532	0.621
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	ECI 1	Main PA	40620	2593	-	18.50	19.00	1.122	62.9	1.006	-0.14	0.295	0.333
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	ECI 1	Main PA	40620	2593	-	18.49	19.00	1.125	62.9	1.006	-0.02	0.231	0.261
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	ECI 1	Main PA	40620	2593	-	18.50	19.00	1.122	62.9	1.006	0.09	0.373	0.421
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	ECI 1	Main PA	40620	2593	-	18.49	19.00	1.125	62.9	1.006	-0.02	0.293	0.332
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1-1	Other PA	39750	2506	-	18.41	19.50	1.285	62.9	1.006	0.01	0.765	0.989
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 2	ECI 1	Main PA	39750+ 39948	2506+ 2525.8	-	18.41	19.00	1.146	62.9	1.006	0.01	0.729	0.840
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	40620	2593	-	20.51	21.50	1.256	62.9	1.006	0.16	0.284	0.359
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	40620	2593	-	20.49	21.50	1.262	62.9	1.006	-0.10	0.209	0.265
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	40620	2593	-	20.51	21.50	1.256	62.9	1.006	-0.07	0.037	0.047
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	40620	2593	-	20.49	21.50	1.262	62.9	1.006	0.08	0.029	0.037
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	40620	2593	-	20.51	21.50	1.256	62.9	1.006	0.01	0.447	0.565
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	40620	2593	-	20.49	21.50	1.262	62.9	1.006	0.04	0.281	0.357
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1-1	Other PA	40620	2593	-	20.45	21.50	1.274	62.9	1.006	-0.01	0.326	0.418
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	40620	2593	-	20.51	21.50	1.256	62.9	1.006	0.08	0.044	0.056
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	40620	2593	-	20.49	21.50	1.262	62.9	1.006	-0.03	0.035	0.044
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 3	ECI 1	Main PA	40620+ 40818	2593+ 2612.8	-	20.45	21.50	1.274	62.9	1.006	0.02	0.321	0.411
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	40620	2593	-	19.88	20.70	1.208	62.9	1.006	-0.02	0.806	0.979
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	39750	2506	-	19.78	20.70	1.236	62.9	1.006	0.15	0.781	0.971
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	40185	2549.5	-	19.78	20.70	1.236	62.9	1.006	0.06	0.746	0.928
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	41055	2636.5	-	19.78	20.70	1.236	62.9	1.006	0.18	0.643	0.800
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	41490	2680	-	19.79	20.70	1.233	62.9	1.006	-0.14	0.515	0.639
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	40620	2593	-	19.85							



FCC SAR Test Report

Report No. : FA5N1302

	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	ECI 1-1	Other PA	40620	2593	-	19.83	20.20	1.089	62.9	1.006	0.01	0.759	0.832
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 4	ECI 1	Main PA	40620	2593	-	19.88	20.70	1.208	62.9	1.006	0.08	0.297	0.361
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	ECI 1	Main PA	40620	2593	-	19.85	20.70	1.216	62.9	1.006	-0.03	0.233	0.285
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 4	ECI 1	Main PA	40620	2593	-	19.88	20.70	1.208	62.9	1.006	0.09	0.207	0.252
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	ECI 1	Main PA	40620	2593	-	19.85	20.70	1.216	62.9	1.006	-0.06	0.161	0.197
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	ECI 1	Main PA	40620	2593	-	19.88	20.70	1.208	62.9	1.006	0.16	0.109	0.132
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	ECI 1	Main PA	40620	2593	-	19.85	20.70	1.216	62.9	1.006	0.18	0.084	0.103
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 4	ECI 1	Main PA	40620+ 40818	2593+ 2612.8	-	19.75	20.70	1.245	62.9	1.006	0.02	0.659	0.825
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 5	ECI 1	Main PA	40620	2593	-	24.05	25.00	1.245	62.9	1.006	-0.12	0.069	0.086
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 5	ECI 1	Main PA	40620	2593	-	23.15	24.00	1.216	62.9	1.006	0.13	0.056	0.069
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 5	ECI 1	Main PA	40620	2593	-	24.05	25.00	1.245	62.9	1.006	0.11	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 5	ECI 1	Main PA	40620	2593	-	23.15	24.00	1.216	62.9	1.006	0.10	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	ECI 1	Main PA	40620	2593	-	24.05	25.00	1.245	62.9	1.006	0.01	0.105	0.132
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 5	ECI 1	Main PA	40620	2593	-	23.15	24.00	1.216	62.9	1.006	-0.04	0.094	0.115
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 5	ECI 1-1	Other PA	40620	2593	-	23.32	24.50	1.312	62.9	1.006	-0.10	0.096	0.127
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 5	ECI 1	Main PA	40620	2593	-	24.05	25.00	1.245	62.9	1.006	0.05	0.040	0.050
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 5	ECI 1	Main PA	40620	2593	-	23.15	24.00	1.216	62.9	1.006	0.11	0.001	0.001
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 5	ECI 1	Main PA	40620+ 40818	2593+ 2612.8	-	23.89	25.00	1.291	62.9	1.006	0.02	0.085	0.110
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	42590	3500	-	17.48	18.50	1.265	62.9	1.006	0.08	0.667	0.849
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	42190	3460	-	17.41	18.50	1.285	62.9	1.006	-0.17	0.600	0.776
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	42990	3540	-	17.43	18.50	1.279	62.9	1.006	0.06	0.661	0.850
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	42590	3500	-	17.45	18.50	1.274	62.9	1.006	-0.09	0.457	0.586
	LTE Band 42	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	42590	3500	-	17.33	18.50	1.309	62.9	1.006	0.04	0.503	0.662
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	ECI 1	Main PA	42590	3500	-	17.48	18.50	1.265	62.9	1.006	-0.05	0.152	0.193
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	ECI 1	Main PA	42590	3500	-	17.45	18.50	1.274	62.9	1.006	0.10	0.121	0.155
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	ECI 1	Main PA	42590	3500	-	17.48	18.50	1.265	62.9	1.006	0.15	0.171	0.218
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	ECI 1	Main PA	42590	3500	-	17.45	18.50	1.274	62.9	1.006	0.14	0.130	0.167
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	ECI 1	Main PA	42590	3500	-	17.48	18.50	1.265	62.9	1.006	0.00	0.056	0.071
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	ECI 1	Main PA	42590	3500	-	17.45	18.50	1.274	62.9	1.006	0.06	0.042	0.054
	LTE Band 42	20M	QPSK	1	99	Right Cheek	0mm	Ant 1	ECI 1	Main PA	42990+ 42792	3540+ 3520.2	-	17.31	18.50	1.315	62.9	1.006	0.01	0.605	0.800
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	42590	3500	-	17.19	18.00	1.205	62.9	1.006	0.04	0.689	0.835
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	42190	3460	-	17.12	18.00	1.225	62.9	1.006	0.14	0.699	0.861
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	42990	3540	-	17.13	18.00	1.222	62.9	1.006	0.12	0.670	0.824
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	42590	3500	-	17.15	18.00	1.216	62.9	1.006	0.08	0.540	0.661
	LTE Band 42	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	42590	3500	-	17.09	18.00	1.233	62.9	1.006	0.06	0.542	0.672
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	42590	3500	-	17.19	18.00	1.205	62.9	1.006	-0.17	0.842	1.021
11	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	42190	3460	-	17.12	18.00	1.225	62.9	1.006	0.02	0.871	1.073
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	42990	3540	-	17.13	18.00	1.222	62.9	1.006	0.16	0.800	0.983
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	42590	3500	-	17.15	18.00	1.216	62.9	1.006	0.18	0.665	0.813
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	42190	3460	-	17.14	18.00	1.219	62.9	1.006	-0.16	0.687	0.842
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	42990	3540	-	17.13	18.00	1.222	62.9	1.006	0.10	0.637	0.783
	LTE Band 42	20M	QPSK	100	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	42590	3500	-	17.09	18.00	1.233	62.9	1.006	-0.15	0.665	0.825
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	ECI 1	Main PA	42590	3500	-	17.19	18.00	1.205	62.9	1.006	0.17	0.312	0.378
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	ECI 1	Main PA	42590	3500	-	17.15	18.00	1.216	62.9	1.006	0.01	0.242	0.296
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	ECI 1	Main PA	42590	3500	-	17.19	18.00	1.205	62.9	1.006	-0.13	0.395	0.479
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	ECI 1	Main PA	42590	3500	-	17.15	18.00	1.216	62.9	1.006	-0.06	0.312	0.382
	LTE Band 42	20M	QPSK	1	99	Right Tilted	0mm	Ant 2	ECI 1	Main PA	42190+ 42388	3460+ 3479.8	-	16.98	18.00	1.265	62.9	1.006	0.01	0.801	1.019
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	42590	3500	-	23.89	25.50	1.449	62.9	1.006	0.07	0.238	0.347
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	42590	3500	-	22.95	24.50	1.429	62.9	1.006	-0.11	0.166	0.239
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	42590	3500	-	23.89	25.50	1.449	62.9	1.006	-0.12	0.046	0.067
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	42590	3500	-	22.95	24.50	1.429	62.9	1.006	-0.04	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	42590	3500	-	23.89	25.50	1.449	62.9	1.006	0.02	0.461	0.672
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	42590	3500	-	22.95	24.50	1.429	62.9	1.006	0.10	0.372	0.535
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	42590	3500	-	23.89	25.50	1.449	62.9	1.006	0.16	0.108	0.157
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	42590	3500	-	22.95	24.50	1.429	62.9	1.006	-0.05	0.082	0.118
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	42190	3460	-	23.81	25.50	1.476	62.9	1.006	0.03	0.405	0.601
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	42990	3540	-	23.82	25.50	1.472	62.9	1.006	0.01	0.431	0.638
	LTE Band 42	20M	QPSK	100	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	42590	3500	-	22.84	24.50	1.466	62.9	1.006	0.02	0.421	0.621
	LTE Band 42	20M	QPSK	1	99	Left Cheek	0mm	Ant 3	ECI 1	Main PA	42590+ 42788	3500+ 3519.8	-	23.68	25.50	1.521	62.9	1.006	0.01	0.421	0.644
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 6	ECI 1	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	-0.18	0.114	0.143
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 6	ECI 1	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	0.07	0.095	0.116
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 6	ECI 1	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	-0.19	0.134	0.168
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 6	ECI 1	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	-0.17	0.110	0.135
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	ECI 1	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	0.02	0.203	0.254
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	ECI 1	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	0.17	0.16	



FCC SAR Test Report

Report No. : FA5N1302

	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	55830	3609	-	17.71	18.50	1.199	62.9	1.006	0.14	0.627	0.756
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	56150	3641	-	17.67	18.50	1.211	62.9	1.006	0.02	0.545	0.664
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	56640	3690	-	17.67	18.50	1.211	62.9	1.006	0.17	0.467	0.569
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	55990	3625	-	17.73	18.50	1.194	62.9	1.006	0.19	0.460	0.553
	LTE Band 48	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	55990	3625	-	17.61	18.50	1.227	62.9	1.006	-0.07	0.453	0.559
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	ECI 1	Main PA	55990	3625	-	17.74	18.50	1.191	62.9	1.006	-0.15	0.111	0.133
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	ECI 1	Main PA	55990	3625	-	17.73	18.50	1.194	62.9	1.006	0.11	0.088	0.106
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	ECI 1	Main PA	55990	3625	-	17.74	18.50	1.191	62.9	1.006	-0.19	0.138	0.165
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	ECI 1	Main PA	55990	3625	-	17.73	18.50	1.194	62.9	1.006	-0.12	0.114	0.137
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	ECI 1	Main PA	55990	3625	-	17.74	18.50	1.191	62.9	1.006	0.03	0.045	0.054
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	ECI 1	Main PA	55990	3625	-	17.73	18.50	1.194	62.9	1.006	0.05	0.037	0.044
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	55990	3625	-	17.28	18.00	1.18	62.9	1.006	-0.00	0.641	0.761
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	55340	3560	-	17.17	18.00	1.211	62.9	1.006	0.00	0.676	0.824
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	55830	3609	-	17.26	18.00	1.186	62.9	1.006	0.12	0.652	0.778
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	56150	3641	-	17.20	18.00	1.202	62.9	1.006	0.11	0.631	0.763
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	56640	3690	-	17.21	18.00	1.199	62.9	1.006	-0.13	0.586	0.707
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	55990	3625	-	17.25	18.00	1.189	62.9	1.006	-0.09	0.513	0.614
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	55340	3560	-	17.21	18.00	1.199	62.9	1.006	0.19	0.534	0.644
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	55830	3609	-	17.19	18.00	1.205	62.9	1.006	-0.14	0.517	0.627
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	56150	3641	-	17.18	18.00	1.208	62.9	1.006	-0.02	0.492	0.598
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	56640	3690	-	17.17	18.00	1.211	62.9	1.006	-0.16	0.465	0.566
	LTE Band 48	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	55990	3625	-	17.12	18.00	1.225	62.9	1.006	-0.16	0.510	0.628
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	55990	3625	-	17.28	18.00	1.18	62.9	1.006	-0.10	0.735	0.873
12	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	55340	3560	-	17.17	18.00	1.211	62.9	1.006	0.01	0.780	0.950
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	55830	3609	-	17.26	18.00	1.186	62.9	1.006	-0.02	0.745	0.889
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	56150	3641	-	17.20	18.00	1.202	62.9	1.006	0.06	0.710	0.859
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	56640	3690	-	17.21	18.00	1.199	62.9	1.006	0.15	0.662	0.799
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	55990	3625	-	17.25	18.00	1.189	62.9	1.006	0.09	0.579	0.693
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	55340	3560	-	17.21	18.00	1.199	62.9	1.006	0.06	0.621	0.749
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	55830	3609	-	17.19	18.00	1.205	62.9	1.006	-0.18	0.586	0.710
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	56150	3641	-	17.18	18.00	1.208	62.9	1.006	0.13	0.555	0.674
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	56640	3690	-	17.17	18.00	1.211	62.9	1.006	0.06	0.517	0.630
	LTE Band 48	20M	QPSK	100	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	55990	3625	-	17.12	18.00	1.225	62.9	1.006	-0.08	0.575	0.709
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	ECI 1	Main PA	55990	3625	-	17.28	18.00	1.18	62.9	1.006	-0.14	0.276	0.328
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	ECI 1	Main PA	55990	3625	-	17.25	18.00	1.189	62.9	1.006	0.08	0.220	0.263
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	ECI 1	Main PA	55990	3625	-	17.28	18.00	1.18	62.9	1.006	0.15	0.338	0.401
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	ECI 1	Main PA	55990	3625	-	17.25	18.00	1.189	62.9	1.006	0.10	0.267	0.319
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	0.14	0.193	0.273
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	-0.08	0.159	0.220
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	0.07	0.010	0.014
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 3	ECI 1	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	-0.00	0.029	0.040
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	0.01	0.267	0.378
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	-0.04	0.215	0.297
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	-0.17	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 3	ECI 1	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	0.14	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Right Cheek	0mm	Ant 6	ECI 1	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	-0.08	0.074	0.095
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 6	ECI 1	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.01	0.060	0.076
	LTE Band 48	20M	QPSK	1	0	Right Tilted	0mm	Ant 6	ECI 1	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.04	0.081	0.104
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 6	ECI 1	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.03	0.063	0.080
	LTE Band 48	20M	QPSK	1	0	Left Cheek	0mm	Ant 6	ECI 1	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.02	0.162	0.208
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 6	ECI 1	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	-0.07	0.131	0.166
	LTE Band 48	20M	QPSK	1	0	Left Tilted	0mm	Ant 6	ECI 1	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	-0.05	0.154	0.197
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 6	ECI 1	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.07	0.123	0.155



【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	code(NO.)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI 1	Main PA	376000	1880	-	18.73	19.50	1.194			-0.11	0.717	0.856
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI 1	Main PA	372000	1860	-	18.63	19.50	1.222			0.18	0.602	0.736
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI 1	Main PA	380000	1900	-	18.60	19.50	1.23			-0.15	0.688	0.846
	FR1 n2	20M	BPSK	50	28	Right Cheek	0mm	Ant 2	ECI 1	Main PA	376000	1880	-	18.69	19.50	1.205			-0.07	0.690	0.831
	FR1 n2	20M	BPSK	50	28	Right Cheek	0mm	Ant 2	ECI 1	Main PA	372000	1860	-	18.61	19.50	1.227			-0.11	0.525	0.644
	FR1 n2	20M	BPSK	50	28	Right Cheek	0mm	Ant 2	ECI 1	Main PA	380000	1900	-	18.65	19.50	1.216			-0.03	0.630	0.766
	FR1 n2	20M	BPSK	100	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	372000	1860	-	18.54	19.50	1.247			0.16	0.602	0.751
	FR1 n2	20M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	376000	1880	-	18.73	19.50	1.194			0.04	0.719	0.858
	FR1 n2	20M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	372000	1860	-	18.63	19.50	1.222			0.18	0.604	0.738
	FR1 n2	20M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	380000	1900	-	18.60	19.50	1.23			0.04	0.661	0.813
	FR1 n2	20M	BPSK	50	28	Right Tilted	0mm	Ant 2	ECI 1	Main PA	376000	1880	-	18.69	19.50	1.205			-0.07	0.661	0.797
	FR1 n2	20M	BPSK	100	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	372000	1860	-	18.54	19.50	1.247			-0.16	0.348	0.434
	FR1 n2	20M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI 1	Main PA	376000	1880	-	18.73	19.50	1.194			0.19	0.348	0.416
	FR1 n2	20M	BPSK	50	28	Left Cheek	0mm	Ant 2	ECI 1	Main PA	376000	1880	-	18.69	19.50	1.205			0.05	0.333	0.401
	FR1 n2	20M	BPSK	1	1	Left Tilted	0mm	Ant 2	ECI 1	Main PA	376000	1880	-	18.73	19.50	1.194			-0.14	0.443	0.529
	FR1 n2	20M	BPSK	50	28	Left Tilted	0mm	Ant 2	ECI 1	Main PA	376000	1880	-	18.69	19.50	1.205			0.01	0.429	0.517
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 1	Main PA	376000	1880	-	21.65	23.00	1.365			0.13	0.429	0.586
	FR1 n2	20M	BPSK	50	28	Right Cheek	0mm	Ant 3	ECI 1	Main PA	376000	1880	-	21.63	23.00	1.371			0.08	0.420	0.576
	FR1 n2	20M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 1	Main PA	376000	1880	-	21.65	23.00	1.365			-0.15	0.055	0.075
	FR1 n2	20M	BPSK	50	28	Right Tilted	0mm	Ant 3	ECI 1	Main PA	376000	1880	-	21.63	23.00	1.371			0.07	0.049	0.067
	FR1 n2	20M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	376000	1880	-	21.65	23.00	1.365			0.01	0.600	0.819
	FR1 n2	20M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	372000	1860	-	21.59	23.00	1.384			0.04	0.706	0.977
	FR1 n2	20M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	380000	1900	-	21.64	23.00	1.368			0.11	0.535	0.732
	FR1 n2	20M	BPSK	50	28	Left Cheek	0mm	Ant 3	ECI 1	Main PA	376000	1880	-	21.63	23.00	1.371			-0.12	0.545	0.747
	FR1 n2	20M	BPSK	100	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	380000	1900	-	21.50	23.00	1.413			0.07	0.454	0.642
	FR1 n2	20M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI 1	Main PA	376000	1880	-	21.65	23.00	1.365			0.07	0.112	0.153
	FR1 n2	20M	BPSK	50	28	Left Tilted	0mm	Ant 3	ECI 1	Main PA	376000	1880	-	21.63	23.00	1.371			0.11	0.104	0.143
13	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI 1	Main PA	376000	1880	-	13.24	14.50	1.337			0.02	0.745	0.996
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI 1	Main PA	372000	1860	-	13.22	14.50	1.343			-0.03	0.727	0.976
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI 1	Main PA	380000	1900	-	13.23	14.50	1.34			0.07	0.703	0.942
	FR1 n2	20M	BPSK	50	28	Right Cheek	0mm	Ant 4	ECI 1	Main PA	376000	1880	-	13.22	14.50	1.343			-0.09	0.570	0.766
	FR1 n2	20M	BPSK	100	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	376000	1880	-	13.12	14.50	1.374			-0.15	0.538	0.739
	FR1 n2	20M	BPSK	1	1	Right Tilted	0mm	Ant 4	ECI 1	Main PA	376000	1880	-	13.24	14.50	1.337			-0.12	0.317	0.424
	FR1 n2	20M	BPSK	50	28	Right Tilted	0mm	Ant 4	ECI 1	Main PA	376000	1880	-	13.22	14.50	1.343			0.04	0.255	0.342
	FR1 n2	20M	BPSK	1	1	Left Cheek	0mm	Ant 4	ECI 1	Main PA	376000	1880	-	13.24	14.50	1.337			0.11	0.180	0.241
	FR1 n2	20M	BPSK	50	28	Left Cheek	0mm	Ant 4	ECI 1	Main PA	376000	1880	-	13.22	14.50	1.343			-0.17	0.171	0.230
	FR1 n2	20M	BPSK	1	1	Left Tilted	0mm	Ant 4	ECI 1	Main PA	376000	1880	-	13.24	14.50	1.337			-0.15	0.130	0.174
	FR1 n2	20M	BPSK	50	28	Left Tilted	0mm	Ant 4	ECI 1	Main PA	376000	1880	-	13.22	14.50	1.343			-0.16	0.079	0.106
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 5	ECI 1	Main PA	376000	1880	-	24.19	25.50	1.352			0.01	0.085	0.115
	FR1 n2	20M	BPSK	50	28	Right Cheek	0mm	Ant 5	ECI 1	Main PA	376000	1880	-	24.11	25.50	1.377			-0.13	0.075	0.103
	FR1 n2	20M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI 1	Main PA	376000	1880	-	24.19	25.50	1.352			-0.16	0.001	0.001
	FR1 n2	20M	BPSK	50	28	Right Tilted	0mm	Ant 5	ECI 1	Main PA	376000	1880	-	24.11	25.50	1.377			-0.15	0.001	0.001
	FR1 n2	20M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI 1	Main PA	376000	1880	-	24.19	25.50	1.352			-0.02	0.084	0.114
	FR1 n2	20M	BPSK	50	28	Left Cheek	0mm	Ant 5	ECI 1	Main PA	376000	1880	-	24.11	25.50	1.377			-0.04	0.075	0.103
	FR1 n2	20M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI 1	Main PA	376000	1880	-	24.19	25.50	1.352			0.12	0.051	0.069
	FR1 n2	20M	BPSK	50	28	Left Tilted	0mm	Ant 5	ECI 1	Main PA	376000	1880	-	24.11	25.50	1.377			0.03	0.043	0.059
	FR1 n5	20M	BPSK	1	1	Right Cheek	0mm	Ant 0	ECI 1	Main PA	167300	836.5	code 34	24.31	25.50	1.315			-0.04	0.111	0.146
	FR1 n5	20M	BPSK	50	28	Right Cheek	0mm	Ant 0	ECI 1	Main PA	167300	836.5	code 34	24.30	25.50	1.318			0.11	0.128	0.169
	FR1 n5	20M	BPSK	1	1	Right Tilted	0mm	Ant 0	ECI 1	Main PA	167300	836.5	code 34	24.31	25.50	1.315			-0.18	0.080	0.105
	FR1 n5	20M	BPSK	50	28	Right Tilted	0mm	Ant 0	ECI 1	Main PA	167300	836.5	code 34	24.30	25.50	1.318			-0.04	0.084	0.111
	FR1 n5	20M	BPSK	1	1	Left Cheek	0mm	Ant 0	ECI 1	Main PA	167300	836.5	code 34	24.31	25.50	1.315			-0.16	0.131	0.172
	FR1 n5	20M	BPSK	50	28	Left Cheek	0mm	Ant 0	ECI 1	Main PA	167300	836.5	code 34	24.30	25.50	1.318			0.01	0.142	0.187
	FR1 n5	20M	BPSK	1	1	Left Tilted	0mm	Ant 0	ECI 1	Main PA	167300	836.5	code 34	24.31	25.50	1.315			-0.09	0.061	0.080
	FR1 n5	20M	BPSK	50	28	Left Tilted	0mm	Ant 0	ECI 1	Main PA	167300	836.5	code 34	24.30	25.50	1.318			-0.07	0.065	0.086
	FR1 n5	20M	BPSK	50	28	Left Cheek	0mm	Ant 0	ECI 1	Main PA	167300	836.5	code 78	24.30	25.50	1.318			0.16	0.097	0.128
	FR1 n5	20M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 1	Main PA	167300	836.5	code 0	20.82	22.00	1.312			0.13	0.283	0.371
	FR1 n5	20M	BPSK	50	28	Right Cheek	0mm	Ant 1	ECI 1	Main PA	167300	836.5	code 0	20.80	22.00	1.318			0.01	0.501	0.660
	FR1 n5	20M	BPSK	1	1	Right Tilted	0mm	Ant 1	ECI 1	Main PA	167300	836.5	code 0	20.82	22.00	1.312			-0.01	0.054	0.071
	FR1 n5	20M	BPSK	50	28	Right Tilted	0mm	Ant 1	ECI 1	Main PA	167300	836.5	code 0	20.80	22.00	1.318			-0.19	0.097	0.128
	FR1 n5	20M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI 1	Main PA	167300	836.5	code 0	20.82	22.00	1.312			0.15	0.395	0.518
14	FR1 n5	20M	BPSK	50	28	Left Cheek	0mm	Ant 1	ECI 1	Main PA	167300	836.5	code 0	20.80	22.00	1.318			-0.09	0.740	0.975
	FR1 n5	20M	BPSK	100	0	Left Cheek	0mm	Ant 1	ECI 1	Main PA	167300	836.5	code 0	20.65	22.00	1.365			-0.12	0.677	0.924
	FR1 n5	20M	BPSK	1	1	Left Tilted	0mm	Ant 1	ECI 1	Main PA	167300	836.5	code 0	20.82	22.00	1.312			-0.03	0.060	0.079
	FR1 n5	20M	BPSK	50	28	Left Tilted	0mm	Ant 1	ECI 1	Main PA	167300	836.5	code 0	20.80	22.00	1.318			-0.00	0.115	0.152
	FR1 n5	20M	BPSK	50	28	Left Cheek	0mm	Ant 1	ECI 1	Main PA	167300	836.5	code 1	20.80	22.00	1.318			-0.19	0.139	0.183
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI 1	Main PA	507000	2535	-	16.53	17.00	1.114			-0.12	0.744	0.829
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 2	ECI 1	Main PA	507000	2535	-	16.51	17.00	1.119			0.18	0.732	0.819
	FR1 n7	50M	BPSK	270	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	507000	2535	-	16.45	17.00	1.135			0.08	0.653	0.741



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	507000	2535	-	16.53	17.00	1.114			0.09	0.828	0.922
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 2	ECI 1	Main PA	507000	2535	-	16.51	17.00	1.119			0.14	0.797	0.892
	FR1 n7	50M	BPSK	270	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	507000	2535	-	16.45	17.00	1.135			0.08	0.710	0.806
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1-1	Other PA	507000	2535	-	16.49	17.50	1.262			-0.19	0.701	0.885
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI 1	Main PA	507000	2535	-	16.53	17.00	1.114			-0.02	0.399	0.444
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 2	ECI 1	Main PA	507000	2535	-	16.51	17.00	1.119			0.03	0.363	0.406
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 2	ECI 1	Main PA	507000	2535	-	16.53	17.00	1.114			0.10	0.513	0.571
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 2	ECI 1	Main PA	507000	2535	-	16.51	17.00	1.119			-0.09	0.493	0.552
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 1	Main PA	507000	2535	-	21.55	22.50	1.245			0.14	0.562	0.700
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 3	ECI 1	Main PA	507000	2535	-	21.54	22.50	1.247			-0.12	0.515	0.642
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 1	Main PA	507000	2535	-	21.55	22.50	1.245			-0.19	0.076	0.095
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 3	ECI 1	Main PA	507000	2535	-	21.54	22.50	1.247			0.15	0.060	0.075
15	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	507000	2535	-	21.55	22.50	1.245			0.02	0.759	0.945
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 3	ECI 1	Main PA	507000	2535	-	21.54	22.50	1.247			-0.01	0.661	0.824
	FR1 n7	50M	BPSK	270	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	507000	2535	-	21.43	22.50	1.279			-0.05	0.586	0.749
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1-1	Other PA	507000	2535	-	21.48	22.50	1.265			-0.14	0.675	0.854
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI 1	Main PA	507000	2535	-	21.55	22.50	1.245			0.11	0.136	0.169
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 3	ECI 1	Main PA	507000	2535	-	21.54	22.50	1.247			0.04	0.087	0.108
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI 1	Main PA	507000	2535	-	18.31	18.70	1.094			-0.01	0.797	0.872
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 4	ECI 1	Main PA	507000	2535	-	18.29	18.70	1.099			0.13	0.782	0.859
	FR1 n7	50M	BPSK	270	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	507000	2535	-	18.20	18.70	1.122			0.08	0.729	0.818
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI 1-1	Other PA	507000	2535	-	17.98	18.20	1.052			-0.11	0.642	0.675
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 4	ECI 1	Main PA	507000	2535	-	18.31	18.70	1.094			-0.00	0.247	0.270
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 4	ECI 1	Main PA	507000	2535	-	18.29	18.70	1.099			-0.08	0.261	0.287
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 4	ECI 1	Main PA	507000	2535	-	18.31	18.70	1.094			0.10	0.239	0.261
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 4	ECI 1	Main PA	507000	2535	-	18.29	18.70	1.099			0.05	0.241	0.265
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 4	ECI 1	Main PA	507000	2535	-	18.31	18.70	1.094			0.10	0.100	0.109
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 4	ECI 1	Main PA	507000	2535	-	18.29	18.70	1.099			0.18	0.100	0.110
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 5	ECI 1	Main PA	507000	2535	-	24.27	25.00	1.183			0.08	0.120	0.142
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 5	ECI 1	Main PA	507000	2535	-	24.11	25.00	1.227			0.09	0.115	0.141
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI 1	Main PA	507000	2535	-	24.27	25.00	1.183			-0.07	0.071	0.084
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 5	ECI 1	Main PA	507000	2535	-	24.11	25.00	1.227			0.13	0.065	0.080
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI 1	Main PA	507000	2535	-	24.27	25.00	1.183			0.05	0.170	0.201
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 5	ECI 1	Main PA	507000	2535	-	24.11	25.00	1.227			0.01	0.210	0.258
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 5	ECI 1-1	Other PA	507000	2535	-	23.46	24.50	1.271			0.17	0.181	0.230
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI 1	Main PA	507000	2535	-	24.27	25.00	1.183			-0.10	0.069	0.082
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 5	ECI 1	Main PA	507000	2535	-	24.11	25.00	1.227			0.18	0.069	0.085
	FR1 n66	40M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI 1	Main PA	349000	1745	code B0	19.45	20.00	1.135			0.08	0.603	0.684
	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 2	ECI 1	Main PA	349000	1745	code B0	19.43	20.00	1.14			0.13	0.661	0.754
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	349000	1745	code B0	19.45	20.00	1.135			0.12	0.688	0.781
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 2	ECI 1	Main PA	349000	1745	code B0	19.43	20.00	1.14			0.00	0.664	0.757
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI 1	Main PA	349000	1745	code B0	19.45	20.00	1.135			-0.02	0.314	0.356
	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 2	ECI 1	Main PA	349000	1745	code B0	19.43	20.00	1.14			-0.11	0.338	0.385
	FR1 n66	40M	BPSK	1	1	Left Tilted	0mm	Ant 2	ECI 1	Main PA	349000	1745	code B0	19.45	20.00	1.135			0.03	0.408	0.463
	FR1 n66	40M	BPSK	108	54	Left Tilted	0mm	Ant 2	ECI 1	Main PA	349000	1745	code B0	19.43	20.00	1.14			-0.01	0.460	0.524
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	349000	1745	code B4	19.45	20.00	1.135			-0.09	0.609	0.691
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	349000	1745	code 96	19.45	20.00	1.135			-0.05	0.603	0.684
	FR1 n66	40M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 1	Main PA	349000	1745	code 61	19.53	20.70	1.309			0.07	0.609	0.727
	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 3	ECI 1	Main PA	349000	1745	code 61	19.52	20.70	1.312			0.06	0.396	0.520
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 1	Main PA	349000	1745	code 61	19.53	20.70	1.309			0.15	0.090	0.118
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 3	ECI 1	Main PA	349000	1745	code 61	19.52	20.70	1.312			0.19	0.057	0.075
16	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	349000	1745	code 61	19.53	20.70	1.309			0.04	0.800	1.047
	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 3	ECI 1	Main PA	349000	1745	code 61	19.52	20.70	1.312			0.14	0.538	0.706
	FR1 n66	40M	BPSK	216	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	349000	1745	code 61	19.42	20.70	1.343			-0.13	0.747	1.003
	FR1 n66	40M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI 1	Main PA	349000	1745	code 61	19.53	20.70	1.309			0.04	0.165	0.216
	FR1 n66	40M	BPSK	108	54	Left Tilted	0mm	Ant 3	ECI 1	Main PA	349000	1745	code 61	19.52	20.70	1.312			0.06	0.120	0.157
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	349000	1745	code 52	19.53	20.70	1.309			-0.06	0.041	0.054
	FR1 n66	40M	BPSK	1	1	Right Cheek	0mm	Ant 4	ECI 1	Main PA	349000	1745	-	18.71	19.20	1.119			0.09	0.690	0.772
	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 4	ECI 1	Main PA	349000	1745	-	18.69	19.20	1.125			-0.01	0.738	0.830
	FR1 n66	40M	BPSK	216	0	Right Cheek	0mm	Ant 4	ECI 1	Main PA	349000	1745	-	18.53	19.20	1.167			-0.03	0.662	0.773
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 4	ECI 1	Main PA	349000	1745	-	18.71	19.20	1.119			-0.07	0.318	0.356
	FR1 n66	40M	BPSK	108	54	Right Tilted	0mm	Ant 4	ECI 1	Main PA	349000	1745	-	18.69	19.20	1.125			-0.00	0.348	0.391
	FR1 n66	40M	BPSK	1	1	Left Cheek	0mm	Ant 4	ECI 1	Main PA	349000	1745	-	18.71	19.20	1.119			-0.01	0.169	0.189
	FR1 n66	40M	BPSK	108	54	Left Cheek	0mm	Ant 4	ECI 1	Main PA	349000	1745	-	18.69	19.20	1.125			-0.01	0.187	0.210
	FR1 n66	40M	BPSK	1	1	Left Tilted	0mm	Ant 4	ECI 1	Main PA	349000	1745	-	18.71	19.20	1.119			0.03	0.073	0.082
	FR1 n66	40M	BPSK	108	54	Left Tilted	0mm	Ant 4	ECI 1	Main PA	349000	1745	-	18.69	19.20	1.125			0.13	0.125	0.141
	FR1 n66	40M	BPSK	1	1	Right Cheek	0mm	Ant 5	ECI 1	Main PA	349000	1745	-	24.21	25.50	1.346			-0.07	0.114	0.153
	FR1 n66	40M	BPSK	108	54	Right Cheek	0mm	Ant 5	ECI 1	Main PA	349000	1745	-	24.19	25.50	1.352			0.11	0.123	0.166
	FR1 n66	40M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI 1	Main PA	349000	1745	-	24.21	25.50	1.346			-0.16	0.049	



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n66	40M	BPSK	108	54	Left Tilted	Omm	Ant 5	ECI 1	Main PA	349000	1745	-	24.19	25.50	1.352			0.18	0.057	0.077
	FR1 n41	100M	BPSK	1	1	Right Cheek	Omm	Ant 2	ECI 1	Main PA	518598	2592.99	-	16.18	16.50	1.076			-0.04	0.724	0.779
	FR1 n41	100M	BPSK	135	69	Right Cheek	Omm	Ant 2	ECI 1	Main PA	518598	2592.99	-	16.15	16.50	1.084			-0.08	0.665	0.721
	FR1 n41	100M	BPSK	1	1	Right Tilted	Omm	Ant 2	ECI 1	Main PA	518598	2592.99	-	16.18	16.50	1.076			-0.03	0.800	0.861
	FR1 n41	100M	BPSK	135	69	Right Tilted	Omm	Ant 2	ECI 1	Main PA	518598	2592.99	-	16.15	16.50	1.084			-0.17	0.715	0.775
	FR1 n41	100M	BPSK	270	0	Right Tilted	Omm	Ant 2	ECI 1	Main PA	518598	2592.99	-	16.08	16.50	1.102			-0.00	0.626	0.690
	FR1 n41	100M	BPSK	1	1	Right Tilted	Omm	Ant 2	ECI 1-1	Other PA	518598	2592.99	-	16.12	17.00	1.225			0.12	0.659	0.807
	FR1 n41	100M	BPSK	1	1	Left Cheek	Omm	Ant 2	ECI 1	Main PA	518598	2592.99	-	16.18	16.50	1.076			0.06	0.395	0.425
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 2	ECI 1	Main PA	518598	2592.99	-	16.15	16.50	1.084			-0.02	0.316	0.343
	FR1 n41	100M	BPSK	1	1	Left Tilted	Omm	Ant 2	ECI 1	Main PA	518598	2592.99	-	16.18	16.50	1.076			-0.08	0.504	0.542
	FR1 n41	100M	BPSK	135	69	Left Tilted	Omm	Ant 2	ECI 1	Main PA	518598	2592.99	-	16.15	16.50	1.084			0.12	0.392	0.425
	FR1 n41	100M	BPSK	1	1	Right Cheek	Omm	Ant 3	ECI 1	Main PA	518598	2592.99	-	21.86	23.00	1.3			-0.14	0.559	0.727
	FR1 n41	100M	BPSK	135	69	Right Cheek	Omm	Ant 3	ECI 1	Main PA	518598	2592.99	-	21.84	23.00	1.306			-0.06	0.468	0.611
	FR1 n41	100M	BPSK	1	1	Right Tilted	Omm	Ant 3	ECI 1	Main PA	518598	2592.99	-	21.86	23.00	1.3			0.01	0.066	0.086
	FR1 n41	100M	BPSK	135	69	Right Tilted	Omm	Ant 3	ECI 1	Main PA	518598	2592.99	-	21.84	23.00	1.306			0.16	0.065	0.085
17	FR1 n41	100M	BPSK	1	1	Left Cheek	Omm	Ant 3	ECI 1	Main PA	518598	2592.99	-	21.86	23.00	1.3			0.08	0.703	0.914
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 3	ECI 1	Main PA	518598	2592.99	-	21.84	23.00	1.306			0.18	0.652	0.852
	FR1 n41	100M	BPSK	270	0	Left Cheek	Omm	Ant 3	ECI 1	Main PA	518598	2592.99	-	21.71	23.00	1.346			0.02	0.641	0.863
	FR1 n41	100M	BPSK	1	1	Left Cheek	Omm	Ant 3	ECI 1-1	Other PA	518598	2592.99	-	21.82	23.00	1.312			0.04	0.626	0.821
	FR1 n41	100M	BPSK	1	1	Left Tilted	Omm	Ant 3	ECI 1	Main PA	518598	2592.99	-	21.86	23.00	1.3			0.18	0.089	0.116
	FR1 n41	100M	BPSK	135	69	Left Tilted	Omm	Ant 3	ECI 1	Main PA	518598	2592.99	-	21.84	23.00	1.306			-0.16	0.089	0.116
	FR1 n41	100M	BPSK	1	1	Right Cheek	Omm	Ant 4	ECI 1	Main PA	518598	2592.99	-	17.39	17.70	1.074			-0.04	0.740	0.795
	FR1 n41	100M	BPSK	135	69	Right Cheek	Omm	Ant 4	ECI 1	Main PA	518598	2592.99	-	17.35	17.70	1.084			0.16	0.653	0.708
	FR1 n41	100M	BPSK	1	1	Right Cheek	Omm	Ant 4	ECI 1-1	Other PA	518598	2592.99	-	16.84	17.20	1.086			0.06	0.554	0.602
	FR1 n41	100M	BPSK	1	1	Right Tilted	Omm	Ant 4	ECI 1	Main PA	518598	2592.99	-	17.39	17.70	1.074			0.14	0.263	0.282
	FR1 n41	100M	BPSK	135	69	Right Tilted	Omm	Ant 4	ECI 1	Main PA	518598	2592.99	-	17.35	17.70	1.084			-0.16	0.238	0.258
	FR1 n41	100M	BPSK	1	1	Left Cheek	Omm	Ant 4	ECI 1	Main PA	518598	2592.99	-	17.39	17.70	1.074			-0.15	0.226	0.243
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 4	ECI 1	Main PA	518598	2592.99	-	17.35	17.70	1.084			-0.02	0.207	0.224
	FR1 n41	100M	BPSK	1	1	Left Tilted	Omm	Ant 4	ECI 1	Main PA	518598	2592.99	-	17.39	17.70	1.074			-0.01	0.103	0.111
	FR1 n41	100M	BPSK	135	69	Left Tilted	Omm	Ant 4	ECI 1	Main PA	518598	2592.99	-	17.35	17.70	1.084			-0.02	0.090	0.098
	FR1 n41	100M	BPSK	1	1	Right Cheek	Omm	Ant 5	ECI 1	Main PA	518598	2592.99	-	23.88	25.00	1.294			0.13	0.132	0.171
	FR1 n41	100M	BPSK	135	69	Right Cheek	Omm	Ant 5	ECI 1	Main PA	518598	2592.99	-	23.64	25.00	1.368			0.04	0.144	0.197
	FR1 n41	100M	BPSK	1	1	Right Tilted	Omm	Ant 5	ECI 1	Main PA	518598	2592.99	-	23.88	25.00	1.294			0.16	0.065	0.084
	FR1 n41	100M	BPSK	135	69	Right Tilted	Omm	Ant 5	ECI 1	Main PA	518598	2592.99	-	23.64	25.00	1.368			-0.12	0.062	0.085
	FR1 n41	100M	BPSK	1	1	Left Cheek	Omm	Ant 5	ECI 1	Main PA	518598	2592.99	-	23.88	25.00	1.294			-0.17	0.187	0.242
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 5	ECI 1	Main PA	518598	2592.99	-	23.64	25.00	1.368			0.01	0.200	0.274
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 5	ECI 1-1	Other PA	518598	2592.99	-	23.35	24.50	1.303			-0.09	0.166	0.216
	FR1 n41	100M	BPSK	1	1	Left Tilted	Omm	Ant 5	ECI 1	Main PA	518598	2592.99	-	23.88	25.00	1.294			0.07	0.072	0.093
	FR1 n41	100M	BPSK	135	69	Left Tilted	Omm	Ant 5	ECI 1	Main PA	518598	2592.99	-	23.64	25.00	1.368			-0.14	0.070	0.096
	FR1 n48	40M	BPSK	1	1	Right Cheek	Omm	Ant 1	ECI 1	Main PA	641666	3624.99	-	14.90	16.00	1.288			0.13	0.628	0.809
18	FR1 n48	40M	BPSK	1	1	Right Cheek	Omm	Ant 1	ECI 1	Main PA	638000	3570	-	14.89	16.00	1.291			-0.04	0.763	0.985
	FR1 n48	40M	BPSK	1	1	Right Cheek	Omm	Ant 1	ECI 1	Main PA	645332	3679.98	-	14.88	16.00	1.294			0.09	0.510	0.660
	FR1 n48	40M	BPSK	50	28	Right Cheek	Omm	Ant 1	ECI 1	Main PA	641666	3624.99	-	14.89	16.00	1.291			-0.06	0.628	0.811
	FR1 n48	40M	BPSK	50	28	Right Cheek	Omm	Ant 1	ECI 1	Main PA	638000	3570	-	14.88	16.00	1.294			0.13	0.713	0.923
	FR1 n48	40M	BPSK	50	28	Right Cheek	Omm	Ant 1	ECI 1	Main PA	645332	3679.98	-	14.87	16.00	1.297			0.12	0.493	0.639
	FR1 n48	40M	BPSK	100	0	Right Cheek	Omm	Ant 1	ECI 1	Main PA	641666	3624.99	-	14.77	16.00	1.327			0.04	0.576	0.764
	FR1 n48	40M	BPSK	1	1	Right Tilted	Omm	Ant 1	ECI 1	Main PA	641666	3624.99	-	14.90	16.00	1.288			-0.03	0.116	0.149
	FR1 n48	40M	BPSK	50	28	Right Tilted	Omm	Ant 1	ECI 1	Main PA	641666	3624.99	-	14.89	16.00	1.291			-0.01	0.113	0.146
	FR1 n48	40M	BPSK	1	1	Left Cheek	Omm	Ant 1	ECI 1	Main PA	641666	3624.99	-	14.90	16.00	1.288			0.13	0.150	0.193
	FR1 n48	40M	BPSK	50	28	Left Cheek	Omm	Ant 1	ECI 1	Main PA	641666	3624.99	-	14.89	16.00	1.291			0.03	0.143	0.185
	FR1 n48	40M	BPSK	1	1	Left Tilted	Omm	Ant 1	ECI 1	Main PA	641666	3624.99	-	14.90	16.00	1.288			0.13	0.054	0.070
	FR1 n48	40M	BPSK	50	28	Left Tilted	Omm	Ant 1	ECI 1	Main PA	641666	3624.99	-	14.89	16.00	1.291			-0.10	0.030	0.039
	FR1 n48	40M	BPSK	1	1	Right Cheek	Omm	Ant 2	ECI 1	Main PA	641666	3624.99	-	16.51	17.00	1.119			0.12	0.722	0.808
	FR1 n48	40M	BPSK	1	1	Right Cheek	Omm	Ant 2	ECI 1	Main PA	638000	3570	-	16.42	17.00	1.143			-0.11	0.740	0.846
	FR1 n48	40M	BPSK	1	1	Right Cheek	Omm	Ant 2	ECI 1	Main PA	645332	3679.98	-	16.33	17.00	1.167			-0.08	0.660	0.770
	FR1 n48	40M	BPSK	50	28	Right Cheek	Omm	Ant 2	ECI 1	Main PA	641666	3624.99	-	16.48	17.00	1.127			0.17	0.610	0.687
	FR1 n48	40M	BPSK	50	28	Right Cheek	Omm	Ant 2	ECI 1	Main PA	638000	3570	-	16.47	17.00	1.13			0.09	0.736	0.832
	FR1 n48	40M	BPSK	50	28	Right Cheek	Omm	Ant 2	ECI 1	Main PA	645332	3679.98	-	16.46	17.00	1.132			0.00	0.642	0.727
	FR1 n48	40M	BPSK	100	0	Right Cheek	Omm	Ant 2	ECI 1	Main PA	641666	3624.99	-	16.37	17.00	1.156			-0.06	0.521	0.602
	FR1 n48	40M	BPSK	1	1	Right Tilted	Omm	Ant 2	ECI 1	Main PA	641666	3624.99	-	16.51	17.00	1.119			-0.19	0.787	0.881
	FR1 n48	40M	BPSK	1	1	Right Tilted	Omm	Ant 2	ECI 1	Main PA	638000	3570	-	16.42	17.00	1.143			0.17	0.754	0.862
	FR1 n48	40M	BPSK	1	1	Right Tilted	Omm	Ant 2	ECI 1	Main PA	645332	3679.98	-	16.33	17.00	1.167			-0.09	0.727	0.848
	FR1 n48	40M	BPSK	50	28	Right Tilted	Omm	Ant 2	ECI 1	Main PA	641666	3624.99	-	16.48	17.00	1.127			0.04	0.774	0.872
	FR1 n48	40M	BPSK	50	28	Right Tilted	Omm	Ant 2	ECI 1	Main PA	638000	3570	-	16.47	17.00	1.13			0.02	0.814	0.920
	FR1 n48	40M	BPSK	50	28	Right Tilted	Omm	Ant 2	ECI 1	Main PA	645332	3679.98	-	16.46	17.00	1.132			0.07	0.680	0.770
	FR1 n48	40M	BPSK	100	0	Right Tilted	Omm	Ant 2	ECI 1	Main PA	641666	3624.99	-	16.37	17.00	1.156			-0.15	0.570	0.659
	FR1 n48	40M	BPSK	1	1	Left Cheek	Omm	Ant 2	ECI 1	Main PA	641666	3624.99	-	16.51	17.00	1.119			0.00	0.309	0.346
	FR1 n48	40M	BPSK	50	28	Left Cheek	Omm	Ant 2	ECI 1	Main PA	641666	3624.99	-	16.48	17.00	1.127			-0.07	0.291	0.328
	FR1 n48	40M	BPSK	1	1	Left Tilted	Omm	Ant													



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 3	ECI 1	Main PA	641666	3624.99	-	22.54	24.00	1.4			0.08	0.040	0.056
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	641666	3624.99	-	22.54	24.00	1.4			0.03	0.223	0.312
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 3	ECI 1	Main PA	641666	3624.99	-	22.54	24.00	1.4			0.01	0.337	0.472
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI 1	Main PA	641666	3624.99	-	22.54	24.00	1.4			-0.19	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 3	ECI 1	Main PA	641666	3624.99	-	22.54	24.00	1.4			0.01	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Right Cheek	0mm	Ant 6	ECI 1	Main PA	641666	3624.99	-	20.32	21.50	1.312			0.09	0.152	0.199
	FR1 n48	40M	BPSK	50	28	Right Cheek	0mm	Ant 6	ECI 1	Main PA	641666	3624.99	-	20.26	21.50	1.33			-0.15	0.137	0.182
	FR1 n48	40M	BPSK	1	1	Right Tilted	0mm	Ant 6	ECI 1	Main PA	641666	3624.99	-	20.32	21.50	1.312			-0.00	0.149	0.195
	FR1 n48	40M	BPSK	50	28	Right Tilted	0mm	Ant 6	ECI 1	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.05	0.176	0.234
	FR1 n48	40M	BPSK	1	1	Left Cheek	0mm	Ant 6	ECI 1	Main PA	641666	3624.99	-	20.32	21.50	1.312			0.01	0.297	0.390
	FR1 n48	40M	BPSK	50	28	Left Cheek	0mm	Ant 6	ECI 1	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.01	0.324	0.431
	FR1 n48	40M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI 1	Main PA	641666	3624.99	-	20.32	21.50	1.312			-0.13	0.226	0.297
	FR1 n48	40M	BPSK	50	28	Left Tilted	0mm	Ant 6	ECI 1	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.15	0.242	0.322
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.59	14.50	1.233			-0.02	0.654	0.806
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.55	14.50	1.245			-0.09	0.731	0.910
	FR1 n77	100M	BPSK	270	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.51	14.50	1.256			0.10	0.661	0.830
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.59	14.50	1.233			0.01	0.157	0.194
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.55	14.50	1.245			-0.12	0.182	0.227
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.59	14.50	1.233			0.10	0.194	0.239
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.55	14.50	1.245			-0.07	0.228	0.284
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.59	14.50	1.233			-0.09	0.056	0.069
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.55	14.50	1.245			0.07	0.070	0.087
	FR1 n77_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	16.68	17.50	1.208	50.0	1.0	0.16	0.705	0.852
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	14.51	15.00	1.119			0.09	0.736	0.824
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	14.49	15.00	1.125			-0.18	0.695	0.782
	FR1 n77	100M	BPSK	270	0	Right Cheek	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	14.36	15.00	1.159			0.09	0.630	0.730
19	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	14.51	15.00	1.119			-0.03	0.858	0.960
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	14.49	15.00	1.125			-0.19	0.813	0.915
	FR1 n77	100M	BPSK	270	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	14.36	15.00	1.159			-0.02	0.749	0.868
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	14.51	15.00	1.119			0.11	0.329	0.368
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	14.49	15.00	1.125			0.07	0.313	0.352
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	14.51	15.00	1.119			0.03	0.427	0.478
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	14.49	15.00	1.125			0.12	0.390	0.439
	FR1 n77_HPUE	100M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	17.55	18.00	1.109	50.0	1.0	-0.11	0.781	0.866
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98	-	22.55	24.00	1.396			0.07	0.402	0.561
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98	-	22.52	24.00	1.406			0.12	0.217	0.305
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 1	Main PA	633332	3499.98	-	22.55	24.00	1.396			0.02	0.054	0.075
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 3	ECI 1	Main PA	633332	3499.98	-	22.52	24.00	1.406			0.16	0.073	0.103
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98	-	22.55	24.00	1.396			-0.05	0.600	0.838
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98	-	22.52	24.00	1.406			0.08	0.421	0.592
	FR1 n77	100M	BPSK	270	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98	-	22.51	24.00	1.409			-0.05	0.510	0.719
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI 1	Main PA	633332	3499.98	-	22.55	24.00	1.396			0.05	0.143	0.200
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 3	ECI 1	Main PA	633332	3499.98	-	22.52	24.00	1.406			-0.03	0.159	0.224
	FR1 n77_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98	-	24.57	26.00	1.39	50.0	1.0	0.01	0.505	0.702
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 6	ECI 1	Main PA	633332	3499.98	-	20.12	21.50	1.374			-0.01	0.256	0.352
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 6	ECI 1	Main PA	633332	3499.98	-	20.11	21.50	1.377			0.03	0.217	0.299
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 6	ECI 1	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.10	0.208	0.286
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 6	ECI 1	Main PA	633332	3499.98	-	20.11	21.50	1.377			0.03	0.268	0.369
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	ECI 1	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.11	0.253	0.348
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	ECI 1	Main PA	633332	3499.98	-	20.11	21.50	1.377			0.01	0.409	0.563
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI 1	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.12	0.256	0.352
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 6	ECI 1	Main PA	633332	3499.98	-	20.11	21.50	1.377			-0.12	0.390	0.537
	FR1 n77_HPUE	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	ECI 1	Main PA	633332	3499.98	-	22.05	23.50	1.396	50.0	1.0	0.02	0.341	0.476
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 1	Main PA	656000	3840	-	13.45	14.50	1.274			0.05	0.476	0.606
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	ECI 1	Main PA	656000	3840	-	13.43	14.50	1.279			-0.03	0.538	0.688
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 1	ECI 1	Main PA	656000	3840	-	13.45	14.50	1.274			-0.09	0.099	0.126
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 1	ECI 1	Main PA	656000	3840	-	13.43	14.50	1.279			0.04	0.106	0.136
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI 1	Main PA	656000	3840	-	13.45	14.50	1.274			-0.02	0.148	0.189
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 1	ECI 1	Main PA	656000	3840	-	13.43	14.50	1.279			0.12	0.192	0.246
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 1	ECI 1	Main PA	656000	3840	-	13.45	14.50	1.274			0.11	0.039	0.050
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 1	ECI 1	Main PA	656000	3840	-	13.43	14.50	1.279			-0.06	0.042	0.054
	FR1 n77_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	ECI 1	Main PA	656000	3840	-	16.31	17.50	1.315	50.0	1.0	0.05	0.501	0.659
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI 1	Main PA	656000	3840	-	14.53	15.00	1.114			-0.11	0.337	0.375
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 2	ECI 1	Main PA	656000	3840	-	14.51	15.00	1.119			-0.03	0.372	0.416
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	656000	3840	-	14.53	15.00	1.114			0.13	0.344	0.383
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 2	ECI 1	Main PA	656000	3840	-	14.51	15.00	1.119			0.06	0.382	0.427
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI 1	Main PA	656000	3840	-	14.53	15.00	1.114			0.06	0.147	0.164
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 2	ECI 1	Main PA	656000	3840	-	14.51	15.00	1.					



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 1	Main PA	656000	3840	-	22.48	24.00	1.419			-0.03	0.081	0.115
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 3	ECI 1	Main PA	656000	3840	-	22.41	24.00	1.442			-0.05	0.067	0.097
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	656000	3840	-	22.48	24.00	1.419			0.02	0.411	0.583
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 3	ECI 1	Main PA	656000	3840	-	22.41	24.00	1.442			0.10	0.357	0.515
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI 1	Main PA	656000	3840	-	22.48	24.00	1.419			-0.10	0.102	0.145
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 3	ECI 1	Main PA	656000	3840	-	22.41	24.00	1.442			0.01	0.049	0.071
	FR1 n77_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	656000	3840	-	24.57	26.00	1.39	50.0	1.0	0.11	0.351	0.488
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 6	ECI 1	Main PA	656000	3840	-	20.02	21.50	1.406			-0.05	0.247	0.347
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 6	ECI 1	Main PA	656000	3840	-	20.05	21.50	1.396			0.06	0.315	0.440
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 6	ECI 1	Main PA	656000	3840	-	20.02	21.50	1.406			-0.13	0.275	0.387
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 6	ECI 1	Main PA	656000	3840	-	20.05	21.50	1.396			0.10	0.324	0.452
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	ECI 1	Main PA	656000	3840	-	20.02	21.50	1.406			0.01	0.665	0.935
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	ECI 1	Main PA	656000	3840	-	20.05	21.50	1.396			-0.01	0.525	0.733
	FR1 n77	100M	BPSK	270	0	Left Cheek	0mm	Ant 6	ECI 1	Main PA	656000	3840	-	19.59	21.00	1.384			0.04	0.634	0.877
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI 1	Main PA	656000	3840	-	20.02	21.50	1.406			-0.04	0.554	0.779
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 6	ECI 1	Main PA	656000	3840	-	20.05	21.50	1.396			0.08	0.452	0.631
	FR1 n77_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	ECI 1	Main PA	656000	3840	-	22.59	23.50	1.233	50.0	1.0	0.18	0.650	0.801

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	code(NO.)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n78	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98		22.62	24.50	1.542			-0.06	0.448	0.691
	FR1 n78	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98		22.53	24.50	1.574			0.02	0.171	0.269
	FR1 n78	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 1	Main PA	633332	3499.98		22.62	24.50	1.542			-0.11	0.094	0.145
	FR1 n78	100M	BPSK	135	69	Right Tilted	0mm	Ant 3	ECI 1	Main PA	633332	3499.98		22.53	24.50	1.574			0.00	0.082	0.129
	FR1 n78	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98		22.62	24.50	1.542			-0.01	0.645	0.995
	FR1 n78	100M	BPSK	135	69	Left Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98		22.53	24.50	1.574			0.02	0.611	0.962
	FR1 n78	100M	BPSK	270	0	Left Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98		22.61	24.50	1.545			0.19	0.615	0.950
	FR1 n78	100M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI 1	Main PA	633332	3499.98		22.62	24.50	1.542			-0.01	0.179	0.276
	FR1 n78	100M	BPSK	135	69	Left Tilted	0mm	Ant 3	ECI 1	Main PA	633332	3499.98		22.53	24.50	1.574			0.03	0.168	0.264
20	FR1 n78_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	633332	3499.98		26.01	27.50	1.409	50.0	1.0	-0.09	0.767	1.081
	FR1 n78	100M	BPSK	1	1	Right Cheek	0mm	Ant 6	ECI 1	Main PA	633332	3499.98		20.59	22.00	1.384			0.13	0.189	0.262
	FR1 n78	100M	BPSK	135	69	Right Cheek	0mm	Ant 6	ECI 1	Main PA	633332	3499.98		20.53	22.00	1.403			0.13	0.153	0.215
	FR1 n78	100M	BPSK	1	1	Right Tilted	0mm	Ant 6	ECI 1	Main PA	633332	3499.98		20.59	22.00	1.384			0.17	0.246	0.340
	FR1 n78	100M	BPSK	135	69	Right Tilted	0mm	Ant 6	ECI 1	Main PA	633332	3499.98		20.53	22.00	1.403			-0.11	0.188	0.264
	FR1 n78	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	ECI 1	Main PA	633332	3499.98		20.59	22.00	1.384			0.17	0.305	0.422
	FR1 n78	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	ECI 1	Main PA	633332	3499.98		20.53	22.00	1.403			0.00	0.299	0.419
	FR1 n78	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI 1	Main PA	633332	3499.98		20.59	22.00	1.384			0.09	0.308	0.426
	FR1 n78	100M	BPSK	135	69	Left Tilted	0mm	Ant 6	ECI 1	Main PA	633332	3499.98		20.53	22.00	1.403			0.09	0.271	0.380
	FR1 n78_HPUE	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI 1	Main PA	633332	3499.98		24.51	26.00	1.409	50.0	1.0	0.01	0.344	0.485
	FR1 n78	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 1	Main PA	650000	3750		22.65	24.50	1.531			-0.10	0.567	0.868
	FR1 n78	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 1	Main PA	650000	3750		22.67	24.50	1.524			0.18	0.673	1.026
	FR1 n78	100M	BPSK	270	0	Right Cheek	0mm	Ant 3	ECI 1	Main PA	650000	3750		22.66	24.50	1.528			-0.10	0.667	1.019
	FR1 n78	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 1	Main PA	650000	3750		22.65	24.50	1.531			-0.03	0.068	0.104
	FR1 n78	100M	BPSK	135	69	Right Tilted	0mm	Ant 3	ECI 1	Main PA	650000	3750		22.67	24.50	1.524			-0.09	0.077	0.117
	FR1 n78	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 1	Main PA	650000	3750		22.65	24.50	1.531			0.01	0.428	0.655
	FR1 n78	100M	BPSK	135	69	Left Cheek	0mm	Ant 3	ECI 1	Main PA	650000	3750		22.67	24.50	1.524			-0.19	0.432	0.658
	FR1 n78	100M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI 1	Main PA	650000	3750		22.65	24.50	1.531			-0.13	0.063	0.096
	FR1 n78	100M	BPSK	135	69	Left Tilted	0mm	Ant 3	ECI 1	Main PA	650000	3750		22.67	24.50	1.524			-0.06	0.060	0.091
	FR1 n78_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 1	Main PA	650000	3750		26.04	27.50	1.4	50.0	1.0	-0.09	0.710	0.994
	FR1 n78	100M	BPSK	1	1	Right Cheek	0mm	Ant 6	ECI 1	Main PA	650000	3750		20.67	22.00	1.358			-0.12	0.149	0.202
	FR1 n78	100M	BPSK	135	69	Right Cheek	0mm	Ant 6	ECI 1	Main PA	650000	3750		20.74	22.00	1.337			-0.05	0.162	0.217
	FR1 n78	100M	BPSK	1	1	Right Tilted	0mm	Ant 6	ECI 1	Main PA	650000	3750		20.67	22.00	1.358			-0.15	0.176	0.239
	FR1 n78	100M	BPSK	135	69	Right Tilted	0mm	Ant 6	ECI 1	Main PA	650000	3750		20.74	22.00	1.337			0.06	0.181	0.242
	FR1 n78	100M	BPSK	1	1	Left Cheek	0mm	Ant 6	ECI 1	Main PA	650000	3750		20.67	22.00	1.358			-0.01	0.362	0.492
	FR1 n78	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	ECI 1	Main PA	650000	3750		20.74	22.00	1.337			-0.07	0.526	0.703
	FR1 n78	100M	BPSK	1	1	Left Tilted	0mm	Ant 6	ECI 1	Main PA	650000	3750		20.67	22.00	1.358			-0.05	0.312	0.424
	FR1 n78	100M	BPSK	135	69	Left Tilted	0mm	Ant 6	ECI 1	Main PA	650000	3750		20.74	22.00	1.337			0.10	0.373	0.499
	FR1 n78_HPUE	100M	BPSK	135	69	Left Cheek	0mm	Ant 6	ECI 1	Main PA	650000	3750		24.32	26.00	1.472	50.0	1.0	0.01	0.575	0.846



Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	code(NO.)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n78	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.76	14.5	1.186	100	1.000	0.02	0.554	0.657
	FR1 n78	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.75	14.5	1.189	100	1.000	-0.05	0.693	0.824
	FR1 n78	100M	BPSK	270	0	Right Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.65	14.5	1.216	100	1.000	0.01	0.605	0.736
	FR1 n78	100M	BPSK	1	1	Right Tilted	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.76	14.5	1.186	100	1.000	0.01	0.153	0.181
	FR1 n78	100M	BPSK	135	69	Right Tilted	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.75	14.5	1.189	100	1.000	0.02	0.181	0.215
	FR1 n78	100M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.76	14.5	1.186	100	1.000	0.05	0.207	0.246
	FR1 n78	100M	BPSK	135	69	Left Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.75	14.5	1.189	100	1.000	0.06	0.234	0.278
	FR1 n78	100M	BPSK	1	1	Left Tilted	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.76	14.5	1.186	100	1.000	0.05	0.057	0.068
	FR1 n78	100M	BPSK	135	69	Left Tilted	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	13.75	14.5	1.189	100	1.000	0.02	0.069	0.082
	FR1 n78_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	ECI 1	Main PA	633332	3499.98	-	16.79	17.5	1.178	50	1.000	0.01	0.758	0.893
	FR1 n78	100M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	12.89	14	1.291	100	1.000	0.01	0.519	0.67
	FR1 n78	100M	BPSK	135	69	Right Cheek	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	12.85	14	1.303	100	1.000	0.02	0.522	0.68
	FR1 n78	100M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	12.89	14	1.291	100	1.000	0.08	0.687	0.887
	FR1 n78	100M	BPSK	135	69	Right Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	12.85	14	1.303	100	1.000	0.01	0.608	0.792
	FR1 n78	100M	BPSK	270	0	Right Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	12.8	14	1.318	100	1.000	0.02	0.605	0.797
	FR1 n78	100M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	12.89	14	1.291	100	1.000	0.03	0.233	0.301
	FR1 n78	100M	BPSK	135	69	Left Cheek	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	12.85	14	1.303	100	1.000	0.01	0.221	0.288
	FR1 n78	100M	BPSK	1	1	Left Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	12.89	14	1.291	100	1.000	0.01	0.304	0.392
	FR1 n78	100M	BPSK	135	69	Left Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	12.85	14	1.303	100	1.000	0.02	0.286	0.373
	FR1 n78_HPUE	100M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	633332	3499.98	-	16.09	17	1.233	50	1.000	-0.02	0.785	0.968
	FR1 n78	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 1	Main PA	650000	3750	-	13.81	14.5	1.172	100	1.000	0.05	0.445	0.522
	FR1 n78	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	ECI 1	Main PA	650000	3750	-	13.79	14.5	1.178	100	1.000	0.01	0.397	0.468
	FR1 n78	100M	BPSK	1	1	Right Tilted	0mm	Ant 1	ECI 1	Main PA	650000	3750	-	13.81	14.5	1.172	100	1.000	0.03	0.087	0.102
	FR1 n78	100M	BPSK	135	69	Right Tilted	0mm	Ant 1	ECI 1	Main PA	650000	3750	-	13.79	14.5	1.178	100	1.000	0.01	0.086	0.101
	FR1 n78	100M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI 1	Main PA	650000	3750	-	13.81	14.5	1.172	100	1.000	0.01	0.108	0.127
	FR1 n78	100M	BPSK	135	69	Left Cheek	0mm	Ant 1	ECI 1	Main PA	650000	3750	-	13.79	14.5	1.178	100	1.000	0.02	0.115	0.135
	FR1 n78	100M	BPSK	1	1	Left Tilted	0mm	Ant 1	ECI 1	Main PA	650000	3750	-	13.81	14.5	1.172	100	1.000	0.01	0.035	0.041
	FR1 n78	100M	BPSK	135	69	Left Tilted	0mm	Ant 1	ECI 1	Main PA	650000	3750	-	13.79	14.5	1.178	100	1.000	0.03	0.035	0.041
	FR1 n78_HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 1	Main PA	650000	3750	-	16.85	17.5	1.161	50	1.000	-0.07	0.435	0.505
	FR1 n78	100M	BPSK	1	1	Right Cheek	0mm	Ant 2	ECI 1	Main PA	650000	3750	-	12.96	14	1.271	100	1.000	0.02	0.485	0.616
	FR1 n78	100M	BPSK	135	69	Right Cheek	0mm	Ant 2	ECI 1	Main PA	650000	3750	-	12.95	14	1.274	100	1.000	0.03	0.546	0.696
	FR1 n78	100M	BPSK	1	1	Right Tilted	0mm	Ant 2	ECI 1	Main PA	650000	3750	-	12.96	14	1.271	100	1.000	0.02	0.492	0.625
	FR1 n78	100M	BPSK	135	69	Right Tilted	0mm	Ant 2	ECI 1	Main PA	650000	3750	-	12.95	14	1.274	100	1.000	-0.04	0.565	0.72
	FR1 n78	100M	BPSK	1	1	Left Cheek	0mm	Ant 2	ECI 1	Main PA	650000	3750	-	12.96	14	1.271	100	1.000	0.03	0.204	0.259
	FR1 n78	100M	BPSK	135	69	Left Cheek	0mm	Ant 2	ECI 1	Main PA	650000	3750	-	12.95	14	1.274	100	1.000	0.01	0.251	0.32
	FR1 n78	100M	BPSK	1	1	Left Tilted	0mm	Ant 2	ECI 1	Main PA	650000	3750	-	12.96	14	1.271	100	1.000	0.01	0.228	0.29
	FR1 n78	100M	BPSK	135	69	Left Tilted	0mm	Ant 2	ECI 1	Main PA	650000	3750	-	12.95	14	1.274	100	1.000	0.02	0.27	0.344
	FR1 n78_HPUE	100M	BPSK	135	69	Right Tilted	0mm	Ant 2	ECI 1	Main PA	650000	3750	-	16.11	17	1.227	50	1.000	0.01	0.563	0.691



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)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 8	Head Standalone	1	2412	13.85	14.5	1.161	98.64	1.014	0	0.169	0.199
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 8	Head Standalone	1	2412	13.85	14.5	1.161	98.64	1.014	-0.08	0.144	0.17
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 8	Head Standalone	1	2412	13.85	14.5	1.161	98.64	1.014	-0.13	0.505	0.595
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 8	Head Standalone	1	2412	13.85	14.5	1.161	98.64	1.014	-0.12	0.343	0.404
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7	Head Standalone	1	2412	13.75	14.5	1.189	98.64	1.014	0	0.260	0.313
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7	Head Standalone	1	2412	13.75	14.5	1.189	98.64	1.014	-0.08	0.222	0.268
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	Head Standalone	1	2412	13.75	14.5	1.189	98.64	1.014	-0.13	0.778	0.938
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	Head Standalone	6	2437	13.73	14.5	1.194	98.64	1.014	0.11	0.664	0.804
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	Head Standalone	11	2462	13.69	14.5	1.205	98.64	1.014	0.05	0.712	0.87
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7	Head Standalone	1	2412	13.75	14.5	1.189	98.64	1.014	-0.12	0.529	0.638
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	WIFI only DBS	1	2412	11.26	12	1.186	98.64	1.014	0	0.437	0.526
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7	Non DBS	1	2412	7.28	8	1.180	98.64	1.014	0.03	0.058	0.069
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7	Non DBS	1	2412	7.28	8	1.180	98.64	1.014	0.05	0.051	0.061
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	Non DBS	1	2412	7.28	8	1.180	98.64	1.014	0.05	0.174	0.208
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7	Non DBS	1	2412	7.28	8	1.180	98.64	1.014	0.01	0.148	0.177
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 7	DBS	1	2412	5.29	6	1.178	98.64	1.014	0.02	0.035	0.042
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 7	DBS	1	2412	5.29	6	1.178	98.64	1.014	0.03	0.031	0.037
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 7	DBS	1	2412	5.29	6	1.178	98.64	1.014	0.03	0.105	0.125
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 7	DBS	1	2412	5.29	6	1.178	98.64	1.014	0.05	0.089	0.106
	WLAN2.4GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 8+7(8)	Head Standalone	6	2437	13.65	14.5	1.216	92.36	1.083	0	0.320	0.421
	WLAN2.4GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 8+7(8)	Head Standalone	6	2437	13.65	14.5	1.216	92.36	1.083	-0.08	0.273	0.36
21	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8+7(8)	Head Standalone	6	2437	13.65	14.5	1.216	92.36	1.083	-0.13	0.818	1.077
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8+7(8)	Head Standalone	3	2422	13.65	14.5	1.245	92.36	1.083	0.02	0.756	1.019
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8+7(8)	Head Standalone	9	2452	13.55	14.5	1.250	92.36	1.083	0.03	0.731	0.99
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8+7(8)	Head Standalone	6	2437	13.53	14.5	1.216	92.36	1.083	-0.12	0.652	0.859
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8+7(8)	Head Standalone	3	2422	13.65	14.5	1.245	92.36	1.083	0.02	0.601	0.81
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8+7(8)	Head Standalone	9	2452	13.55	14.5	1.250	92.36	1.083	0.03	0.605	0.819
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8+7(7)	WIFI only DBS	6	2437	13.53	14.5	1.245	92.36	1.083	0.03	0.440	0.593
	WLAN2.4GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 8+7(7)	Non DBS	6	2437	11.05	12	1.236	92.36	1.083	0.02	0.068	0.091
	WLAN2.4GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 8+7(7)	Non DBS	6	2437	7.08	8	1.236	92.36	1.083	0.03	0.059	0.079
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8+7(7)	Non DBS	6	2437	7.08	8	1.236	92.36	1.083	0.05	0.176	0.236
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8+7(7)	Non DBS	6	2437	7.08	8	1.236	92.36	1.083	0.03	0.162	0.217
	WLAN2.4GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 8+7(7)	DBS	6	2437	7.08	8	1.247	92.36	1.083	0.02	0.043	0.058
	WLAN2.4GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 8+7(7)	DBS	6	2437	5.04	6	1.247	92.36	1.083	0.01	0.036	0.049
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8+7(7)	DBS	6	2437	5.04	6	1.247	92.36	1.083	0.02	0.111	0.15
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 8+7(7)	DBS	6	2437	5.04	6	1.247	92.36	1.083	0.02	0.101	0.136
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+7(6)	Head Standalone	58	5290	13.46	14	1.132	96.61	1.035	0.03	0.338	0.396
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+7(6)	Head Standalone	58	5290	13.46	14	1.132	96.61	1.035	-0.14	0.373	0.437
22	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Head Standalone	58	5290	13.46	14	1.132	96.61	1.035	-0.09	0.867	1.016
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+7(6)	Head Standalone	58	5290	13.46	14	1.132	96.61	1.035	0.19	0.728	0.853
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	WIFI only Non DBS	50	5250	11.57	12.5	1.239	93.43	1.070	0.03	0.582	0.772
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	WIFI only DBS	50	5250	10.62	11.5	1.225	93.43	1.070	0.01	0.446	0.585
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+7(7)	Non DBS	50	5250	6.43	7	1.140	93.43	1.070	0.02	0.069	0.084
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+7(7)	Non DBS	50	5250	6.43	7	1.140	93.43	1.070	0.02	0.077	0.094
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(7)	Non DBS	50	5250	6.43	7	1.140	93.43	1.070	0.01	0.198	0.242
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+7(7)	Non DBS	50	5250	6.43	7	1.140	93.43	1.070	0.05	0.149	0.182
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+7(7)	DBS	50	5250	4.59	5.5	1.233	93.43	1.070	0.02	0.048	0.063
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+7(7)	DBS	50	5250	4.59	5.5	1.233	93.43	1.070	0.03	0.053	0.07
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(7)	DBS	50	5250	4.59	5.5	1.233	93.43	1.070	0	0.115	0.152
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+7(7)	DBS	50	5250	4.59	5.5	1.233	93.43	1.070	0.05	0.106	0.14
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+7(7)	Head Standalone	114	5570	13.71	14.5	1.199	93.43	1.070	0.14	0.366	0.47
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+7(7)	Head Standalone	114	5570	13.71	14.5	1.199	93.43	1.070	0.08	0.455	0.584
23	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(7)	Head Standalone	114	5570	13.71	14.5	1.199	93.43	1.070	0.01	0.818	1.049
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+7(7)	Head Standalone	114	5570	13.71	14.5	1.199	93.43	1.070	-0.13	0.794	1.019
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	WIFI only Non DBS	114	5570	12.11	13	1.227	93.43	1.070	0.02	0.618	0.811
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	WIFI only DBS	114	5570	10.15	11	1.216	93.43	1.070	0.02	0.421	0.548
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+7(6)	Non DBS	114	5570	6.25	7	1.189	93.43	1.070	0.05	0.081	0.103
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+7(6)	Non DBS	114	5570	6.25	7	1.189	93.43	1.070	0	0.103	0.131
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	Non DBS	114	5570	6.25	7	1.189	93.43	1.070	0.03	0.189	0.24
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+7(6)	Non DBS	114	5570	6.25	7	1.189	93.43	1.070	0.06	0.184	0.234
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+7(6)	DBS	114	5570	4.28	5	1.180	93.43	1.070	0.05	0.051	0.064
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+7(6)	DBS	114	5570	4.28	5	1.180	93.43	1.070	0.03	0.065	0.082
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	DBS	114	5570	4.28	5	1.180	93.43	1.070	0.03	0.119	0.15
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+7(6)	DBS	114	5570	4.28	5	1.180	93.43	1.070	0.02	0.116	0.146
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+7(7)	Head Standalone	155	5775	15.68	16.5	1.208	96.61	1.035	-0.14	0.345	0.431
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+7(7)	Head Standalone	155	5775	15.68	16.5	1.208	96.61	1.035	0.08	0.424	0.53
24	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	Head Standalone	155	5775	15.68	16.5	1.208	96.61	1.035	0.03	0.789	0.986
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+7(7)	Head Standalone	155	5775	15.68	16.5	1.208	96.61	1.035	-0.11	0.752	0.94
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	WIFI only Non DBS	155	5775	14.69	15.5	1.205	96.61	1.035	0.01	0.626	0.781



FCC SAR Test Report

Report No. : FA5N1302

	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	WIFI only DBS	155	5775	13.75	14.5	1.189	96.61	1.035	0.03	0.467	0.575
	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+7(7)	Non DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.06	0.075	0.096
	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+7(7)	Non DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.01	0.102	0.13
	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	Non DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.05	0.186	0.238
	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+7(7)	Non DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.03	0.178	0.228
	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+7(7)	DBS	155	5775	7.59	8.5	1.233	96.61	1.035	0.02	0.051	0.065
	WLAN5GHZ	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+7(7)	DBS	155	5775	7.59	8.5	1.233	96.61	1.035	0.01	0.063	0.08
	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	DBS	155	5775	7.59	8.5	1.233	96.61	1.035	0.05	0.117	0.149
	WLAN5GHZ	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+7(7)	DBS	155	5775	7.59	8.5	1.233	96.61	1.035	0.06	0.112	0.143
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 8	Head Standalone	39	2441	14.48	16	1.419	76.64	1.087	0.03	0.304	0.469
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 8	Head Standalone	39	2441	14.48	16	1.419	76.64	1.087	0.05	0.125	0.193
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	Head Standalone	39	2441	14.48	16	1.419	76.64	1.087	0.01	0.660	1.018
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	Head Standalone	0	2402	13.98	15.5	1.419	76.64	1.087	0.05	0.605	0.933
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 8	Head Standalone	78	2480	12.45	14	1.429	76.64	1.087	0.01	0.492	0.764
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	Head Standalone	39	2441	14.48	16	1.419	76.64	1.087	0.02	0.669	1.032
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	Head Standalone	0	2402	13.98	15.5	1.419	76.64	1.087	0.03	0.612	0.944
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	Head Standalone	78	2480	12.45	14	1.429	76.64	1.087	0.02	0.477	0.741
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 8	WIFI only Non DBS BT MIMO/DBS	39	2441	10.49	12	1.416	76.64	1.087	0.01	0.242	0.372
	Bluetooth	LE 125kbps	Right Tilted	0mm	Ant 8	Non DBS	19	2440	8.54	10	1.400	82.1	1.015	0.02	0.075	0.107
	Bluetooth	LE 125kbps	Right Tilted	0mm	Ant 8	Non DBS	19	2440	8.54	10	1.400	82.1	1.015	0.01	0.033	0.047
	Bluetooth	LE 125kbps	Left Cheek	0mm	Ant 8	Non DBS	19	2440	8.54	10	1.400	82.1	1.015	0.05	0.162	0.23
	Bluetooth	LE 125kbps	Left Tilted	0mm	Ant 8	Non DBS	19	2440	8.54	10	1.400	82.1	1.015	0.03	0.166	0.236
	Bluetooth	LE 125kbps	Right Cheek	0mm	Ant 8	Non DBS BT MIMO/DBS	19	2440	5.61	7	1.377	82.1	1.015	0.02	0.038	0.053
	Bluetooth	LE 125kbps	Right Tilted	0mm	Ant 8	Non DBS BT MIMO/DBS	19	2440	5.61	7	1.377	82.1	1.015	0.01	0.015	0.021
	Bluetooth	LE 125kbps	Left Cheek	0mm	Ant 8	Non DBS BT MIMO/DBS	19	2440	5.61	7	1.377	82.1	1.015	0.02	0.086	0.12
	Bluetooth	LE 125kbps	Left Tilted	0mm	Ant 8	Non DBS BT MIMO/DBS	19	2440	5.61	7	1.377	82.1	1.015	0.03	0.081	0.113
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7	Head Standalone	39	2441	13.68	15.5	1.521	76.35	1.091	0.06	0.126	0.209
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 7	Head Standalone	39	2441	13.68	15.5	1.521	76.35	1.091	-0.06	0.105	0.174
25	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Head Standalone	39	2441	13.68	15.5	1.521	76.35	1.091	0.03	0.655	1.087
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Head Standalone	0	2402	13.23	15	1.503	76.35	1.091	-0.1	0.430	0.705
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Head Standalone	78	2480	12.21	14	1.510	76.35	1.091	0.05	0.364	0.6
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 7	Head Standalone	39	2441	13.68	15.5	1.521	76.35	1.091	0.13	0.269	0.446
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	WIFI only Non DBS BT MIMO/DBS	39	2441	10.71	12.5	1.510	76.35	1.091	0.02	0.238	0.392
	Bluetooth	LE 125kbps	Right Cheek	0mm	Ant 7	Non DBS	19	2440	7.75	9.5	1.496	82.49	1.010	0.03	0.039	0.059
	Bluetooth	LE 125kbps	Right Tilted	0mm	Ant 7	Non DBS	19	2440	7.75	9.5	1.496	82.49	1.010	0.05	0.035	0.053
	Bluetooth	LE 125kbps	Left Cheek	0mm	Ant 7	Non DBS	19	2440	7.75	9.5	1.496	82.49	1.010	0.01	0.162	0.245
	Bluetooth	LE 125kbps	Left Tilted	0mm	Ant 7	Non DBS	19	2440	7.75	9.5	1.496	82.49	1.010	0.03	0.087	0.131
	Bluetooth	LE 125kbps	Right Cheek	0mm	Ant 7	Non DBS BT MIMO	19	2440	4.81	6.5	1.476	82.49	1.010	0.02	0.020	0.03
	Bluetooth	LE 125kbps	Right Tilted	0mm	Ant 7	Non DBS BT MIMO	19	2440	4.81	6.5	1.476	82.49	1.010	0	0.017	0.025
	Bluetooth	LE 125kbps	Left Cheek	0mm	Ant 7	Non DBS BT MIMO	19	2440	4.81	6.5	1.476	82.49	1.010	0.01	0.081	0.121
	Bluetooth	LE 125kbps	Left Tilted	0mm	Ant 7	Non DBS BT MIMO	19	2440	4.81	6.5	1.476	82.49	1.010	0.03	0.043	0.064



16.2 Hotspot SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 4 Tx slots	Front	10mm	Ant 0	ECI 5	Main PA	189	836.4	26.38	27.50	1.294	-0.18	0.268	0.347
	GSM850	GPRS 4 Tx slots	Back	10mm	Ant 0	ECI 5	Main PA	189	836.4	26.38	27.50	1.294	0.01	0.309	0.400
	GSM850	GPRS 4 Tx slots	Left Sdie	10mm	Ant 0	ECI 5	Main PA	189	836.4	26.38	27.50	1.294	-0.07	0.101	0.131
	GSM850	GPRS 4 Tx slots	Right Sdie	10mm	Ant 0	ECI 5	Main PA	189	836.4	26.38	27.50	1.294	0.14	0.171	0.221
	GSM850	GPRS 4 Tx slots	Top Sdie	10mm	Ant 0	ECI 5	Main PA	189	836.4	26.38	27.50	1.294	-0.16	0.001	0.001
	GSM850	GPRS 4 Tx slots	Bottom Sdie	10mm	Ant 0	ECI 5	Main PA	189	836.4	26.38	27.50	1.294	0.14	0.248	0.321
	GSM850	GPRS 4 Tx slots	Front	10mm	Ant 1	ECI 5	Main PA	189	836.4	22.34	23.50	1.306	0.06	0.490	0.640
	GSM850	GPRS 4 Tx slots	Back	10mm	Ant 1	ECI 5	Main PA	189	836.4	22.34	23.50	1.306	-0.10	0.548	0.716
	GSM850	GPRS 4 Tx slots	Left Sdie	10mm	Ant 1	ECI 5	Main PA	189	836.4	22.34	23.50	1.306	0.18	0.654	0.854
	GSM850	GPRS 4 Tx slots	Left Sdie	10mm	Ant 1	ECI 5	Main PA	128	824.2	22.27	23.50	1.327	-0.02	0.570	0.756
26	GSM850	GPRS 4 Tx slots	Left Sdie	10mm	Ant 1	ECI 5	Main PA	251	848.8	22.27	23.50	1.327	-0.07	0.658	0.873
	GSM850	GPRS 4 Tx slots	Right Sdie	10mm	Ant 1	ECI 5	Main PA	189	836.4	22.34	23.50	1.306	0.06	0.001	0.001
	GSM850	GPRS 4 Tx slots	Top Sdie	10mm	Ant 1	ECI 5	Main PA	189	836.4	22.34	23.50	1.306	-0.12	0.001	0.001
	GSM850	GPRS 4 Tx slots	Bottom Sdie	10mm	Ant 1	ECI 5	Main PA	189	836.4	22.34	23.50	1.306	0.18	0.001	0.001
	GSM1900	GPRS 4 Tx slots	Front	10mm	Ant 2	ECI 5	Main PA	661	1880	21.78	22.50	1.18	0.05	0.188	0.222
	GSM1900	GPRS 4 Tx slots	Back	10mm	Ant 2	ECI 5	Main PA	661	1880	21.78	22.50	1.18	0.06	0.277	0.327
	GSM1900	GPRS 4 Tx slots	Left Sdie	10mm	Ant 2	ECI 5	Main PA	661	1880	21.78	22.50	1.18	0.05	0.059	0.070
	GSM1900	GPRS 4 Tx slots	Right Sdie	10mm	Ant 2	ECI 5	Main PA	661	1880	21.78	22.50	1.18	-0.17	0.038	0.045
27	GSM1900	GPRS 4 Tx slots	Top Sdie	10mm	Ant 2	ECI 5	Main PA	661	1880	21.78	22.50	1.18	-0.19	0.439	0.518
	GSM1900	GPRS 4 Tx slots	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	661	1880	21.78	22.50	1.18	-0.09	0.001	0.001
	GSM1900	GPRS 4 Tx slots	Front	10mm	Ant 3	ECI 5	Main PA	661	1880	22.23	22.50	1.064	-0.07	0.262	0.279
	GSM1900	GPRS 4 Tx slots	Back	10mm	Ant 3	ECI 5	Main PA	661	1880	22.23	22.50	1.064	0.18	0.342	0.364
	GSM1900	GPRS 4 Tx slots	Left Sdie	10mm	Ant 3	ECI 5	Main PA	661	1880	22.23	22.50	1.064	0.10	0.001	0.001
	GSM1900	GPRS 4 Tx slots	Right Sdie	10mm	Ant 3	ECI 5	Main PA	661	1880	22.23	22.50	1.064	0.01	0.450	0.479
	GSM1900	GPRS 4 Tx slots	Top Sdie	10mm	Ant 3	ECI 5	Main PA	661	1880	22.23	22.50	1.064	0.17	0.001	0.001
	GSM1900	GPRS 4 Tx slots	Bottom Sdie	10mm	Ant 3	ECI 5	Main PA	661	1880	22.23	22.50	1.064	0.03	0.001	0.001

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 5	Main PA	9400	1880	22.55	23.50	1.245	-0.15	0.171	0.213
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 5	Main PA	9400	1880	22.55	23.50	1.245	-0.15	0.223	0.278
	WCDMA II	RMC 12.2Kbps	Left Sdie	10mm	Ant 2	ECI 5	Main PA	9400	1880	22.55	23.50	1.245	-0.16	0.066	0.082
	WCDMA II	RMC 12.2Kbps	Right Sdie	10mm	Ant 2	ECI 5	Main PA	9400	1880	22.55	23.50	1.245	-0.02	0.046	0.057
	WCDMA II	RMC 12.2Kbps	Top Sdie	10mm	Ant 2	ECI 5	Main PA	9400	1880	22.55	23.50	1.245	-0.15	0.400	0.498
	WCDMA II	RMC 12.2Kbps	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	9400	1880	22.55	23.50	1.245	-0.07	0.001	0.001
	WCDMA II	RMC 12.2Kbps	Front	10mm	Ant 3	ECI 5	Main PA	9400	1880	17.26	19.00	1.493	-0.19	0.221	0.330
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 3	ECI 5	Main PA	9400	1880	17.26	19.00	1.493	0.13	0.293	0.437
	WCDMA II	RMC 12.2Kbps	Left Sdie	10mm	Ant 3	ECI 5	Main PA	9400	1880	17.26	19.00	1.493	0.02	0.001	0.001
28	WCDMA II	RMC 12.2Kbps	Right Sdie	10mm	Ant 3	ECI 5	Main PA	9400	1880	17.26	19.00	1.493	-0.05	0.377	0.563
	WCDMA II	RMC 12.2Kbps	Top Sdie	10mm	Ant 3	ECI 5	Main PA	9400	1880	17.26	19.00	1.493	0.12	0.001	0.001
	WCDMA II	RMC 12.2Kbps	Bottom Sdie	10mm	Ant 3	ECI 5	Main PA	9400	1880	17.26	19.00	1.493	-0.08	0.001	0.001
	WCDMA IV	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 5	Main PA	1413	1732.6	17.35	18.50	1.303	0.03	0.157	0.205
	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 5	Main PA	1413	1732.6	17.35	18.50	1.303	-0.14	0.210	0.274
	WCDMA IV	RMC 12.2Kbps	Left Sdie	10mm	Ant 2	ECI 5	Main PA	1413	1732.6	17.35	18.50	1.303	-0.03	0.059	0.077
	WCDMA IV	RMC 12.2Kbps	Right Sdie	10mm	Ant 2	ECI 5	Main PA	1413	1732.6	17.35	18.50	1.303	0.07	0.050	0.065
29	WCDMA IV	RMC 12.2Kbps	Top Sdie	10mm	Ant 2	ECI 5	Main PA	1413	1732.6	17.35	18.50	1.303	-0.14	0.315	0.410
	WCDMA IV	RMC 12.2Kbps	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	1413	1732.6	17.35	18.50	1.303	-0.11	0.015	0.020
	WCDMA IV	RMC 12.2Kbps	Front	10mm	Ant 3	ECI 5	Main PA	1413	1732.6	23.69	25.50	1.517	-0.02	0.053	0.080
	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 3	ECI 5	Main PA	1413	1732.6	23.69	25.50	1.517	0.10	0.073	0.111
	WCDMA IV	RMC 12.2Kbps	Left Sdie	10mm	Ant 3	ECI 5	Main PA	1413	1732.6	23.69	25.50	1.517	0.14	0.001	0.002
	WCDMA IV	RMC 12.2Kbps	Right Sdie	10mm	Ant 3	ECI 5	Main PA	1413	1732.6	23.69	25.50	1.517	-0.02	0.114	0.173
	WCDMA IV	RMC 12.2Kbps	Top Sdie	10mm	Ant 3	ECI 5	Main PA	1413	1732.6	23.69	25.50	1.517	-0.13	0.001	0.002
	WCDMA IV	RMC 12.2Kbps	Bottom Sdie	10mm	Ant 3	ECI 5	Main PA	1413	1732.6	23.69	25.50	1.517	-0.00	0.001	0.002
	WCDMA V	RMC 12.2Kbps	Front	10mm	Ant 0	ECI 5	Main PA	4182	836.4	23.52	25.00	1.406	-0.04	0.350	0.492
	WCDMA V	RMC 12.2Kbps	Back	10mm	Ant 0	ECI 5	Main PA	4182	836.4	23.52	25.00	1.406	-0.05	0.387	0.544
	WCDMA V	RMC 12.2Kbps	Left Sdie	10mm	Ant 0	ECI 5	Main PA	4182	836.4	23.52	25.00	1.406	-0.18	0.115	0.162
	WCDMA V	RMC 12.2Kbps	Right Sdie	10mm	Ant 0	ECI 5	Main PA	4182	836.4	23.52	25.00	1.406	-0.03	0.226	0.318
	WCDMA V	RMC 12.2Kbps	Top Sdie	10mm	Ant 0	ECI 5	Main PA	4182	836.4	23.52	25.00	1.406	-0.17	0.001	0.001
	WCDMA V	RMC 12.2Kbps	Bottom Sdie	10mm	Ant 0	ECI 5	Main PA	4182	836.4	23.52	25.00	1.406	0.18	0.299	0.420
	WCDMA V	RMC 12.2Kbps	Front	10mm	Ant 1	ECI 5	Main PA	4182	836.4	19.69	21.00	1.352	-0.13	0.426	0.576
	WCDMA V	RMC 12.2Kbps	Back	10mm	Ant 1	ECI 5	Main PA	4182	836.4	19.69	21.00	1.352	-0.17	0.482	0.652
30	WCDMA V	RMC 12.2Kbps	Left Sdie	10mm	Ant 1	ECI 5	Main PA	4182	836.4	19.69	21.00	1.352	-0.11	0.584	0.790
	WCDMA V	RMC 12.2Kbps	Right Sdie	10mm	Ant 1	ECI 5	Main PA	4182	836.4	19.69	21.00	1.352	-0.07	0.001	0.001
	WCDMA V	RMC 12.2Kbps	Top Sdie	10mm	Ant 1	ECI 5	Main PA	4182	836.4	19.69	21.00	1.352	-0.03	0.001	0.001
	WCDMA V	RMC 12.2Kbps	Bottom Sdie	10mm	Ant 1	ECI 5	Main PA	4182	836.4	19.69	21.00	1.352	-0.02	0.001	0.001



【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	code(No.)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	18.15	19.00	1.216			-0.13	0.117	0.142
	LTE Band 2	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	17.99	19.00	1.262			-0.10	0.095	0.120
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	18.15	19.00	1.216			0.08	0.168	0.204
	LTE Band 2	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	17.99	19.00	1.262			0.00	0.136	0.172
	LTE Band 2	20M	QPSK	1	0	Left Sdie	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	18.15	19.00	1.216			0.17	0.044	0.054
	LTE Band 2	20M	QPSK	50	0	Left Sdie	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	17.99	19.00	1.262			0.06	0.037	0.047
	LTE Band 2	20M	QPSK	1	0	Right Sdie	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	18.15	19.00	1.216			-0.09	0.026	0.032
	LTE Band 2	20M	QPSK	50	0	Right Sdie	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	17.99	19.00	1.262			-0.19	0.022	0.028
	LTE Band 2	20M	QPSK	1	0	Top Sdie	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	18.15	19.00	1.216			-0.03	0.293	0.356
	LTE Band 2	20M	QPSK	50	0	Top Sdie	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	17.99	19.00	1.262			0.04	0.234	0.295
	LTE Band 2	20M	QPSK	1	0	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	18.15	19.00	1.216			-0.01	0.001	0.001
	LTE Band 2	20M	QPSK	50	0	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	18900	1880	-	17.99	19.00	1.262			-0.11	0.001	0.001
	LTE Band 2	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.68	22.00	1.355			0.17	0.152	0.206
	LTE Band 2	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.57	22.00	1.39			0.16	0.123	0.171
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.68	22.00	1.355			-0.09	0.211	0.286
	LTE Band 2	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.57	22.00	1.39			0.14	0.169	0.235
	LTE Band 2	20M	QPSK	1	0	Left Sdie	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.68	22.00	1.355			0.16	0.001	0.001
	LTE Band 2	20M	QPSK	50	0	Left Sdie	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.57	22.00	1.39			0.03	0.001	0.001
31	LTE Band 2	20M	QPSK	1	0	Right Sdie	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.68	22.00	1.355			-0.05	0.278	0.377
	LTE Band 2	20M	QPSK	50	0	Right Sdie	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.57	22.00	1.39			-0.14	0.221	0.307
	LTE Band 2	20M	QPSK	1	0	Top Sdie	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.68	22.00	1.355			-0.14	0.001	0.001
	LTE Band 2	20M	QPSK	50	0	Top Sdie	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.57	22.00	1.39			-0.14	0.001	0.001
	LTE Band 2	20M	QPSK	1	0	Bottom Sdie	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.68	22.00	1.355			0.18	0.001	0.001
	LTE Band 2	20M	QPSK	50	0	Bottom Sdie	10mm	Ant 3	ECI 5	Main PA	18900	1880	-	20.57	22.00	1.39			-0.08	0.001	0.001
	LTE Band 2	20M	QPSK	1	0	Front	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.23	16.50	1.34			-0.06	0.097	0.130
	LTE Band 2	20M	QPSK	50	0	Front	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.21	16.50	1.346			0.06	0.086	0.116
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.23	16.50	1.34			-0.12	0.102	0.137
	LTE Band 2	20M	QPSK	50	0	Back	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.21	16.50	1.346			0.01	0.088	0.118
	LTE Band 2	20M	QPSK	1	0	Left Sdie	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.23	16.50	1.34			0.02	0.194	0.260
	LTE Band 2	20M	QPSK	50	0	Left Sdie	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.21	16.50	1.346			-0.06	0.163	0.219
	LTE Band 2	20M	QPSK	1	0	Right Sdie	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.23	16.50	1.34			0.08	0.018	0.024
	LTE Band 2	20M	QPSK	50	0	Right Sdie	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.21	16.50	1.346			-0.13	0.016	0.022
	LTE Band 2	20M	QPSK	1	0	Top Sdie	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.23	16.50	1.34			-0.03	0.050	0.067
	LTE Band 2	20M	QPSK	50	0	Top Sdie	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.21	16.50	1.346			-0.01	0.042	0.057
	LTE Band 2	20M	QPSK	1	0	Bottom Sdie	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.23	16.50	1.34			-0.12	0.001	0.001
	LTE Band 2	20M	QPSK	50	0	Bottom Sdie	10mm	Ant 4	ECI 5	Main PA	18900	1880	-	15.21	16.50	1.346			-0.08	0.001	0.001
	LTE Band 2	20M	QPSK	1	0	Front	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.13	22.50	1.371			-0.08	0.193	0.265
	LTE Band 2	20M	QPSK	50	0	Front	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.10	22.50	1.38			-0.19	0.154	0.213
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.13	22.50	1.371			-0.18	0.226	0.310
	LTE Band 2	20M	QPSK	50	0	Back	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.10	22.50	1.38			-0.06	0.181	0.250
	LTE Band 2	20M	QPSK	1	0	Left Sdie	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.13	22.50	1.371			0.19	0.073	0.100
	LTE Band 2	20M	QPSK	50	0	Left Sdie	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.10	22.50	1.38			0.10	0.060	0.083
	LTE Band 2	20M	QPSK	1	0	Right Sdie	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.13	22.50	1.371			-0.09	0.043	0.059
	LTE Band 2	20M	QPSK	50	0	Right Sdie	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.10	22.50	1.38			0.03	0.036	0.050
	LTE Band 2	20M	QPSK	1	0	Top Sdie	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.13	22.50	1.371			0.16	0.002	0.003
	LTE Band 2	20M	QPSK	50	0	Top Sdie	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.10	22.50	1.38			0.08	0.001	0.001
	LTE Band 2	20M	QPSK	1	0	Bottom Sdie	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.13	22.50	1.371			0.01	0.264	0.362
	LTE Band 2	20M	QPSK	50	0	Bottom Sdie	10mm	Ant 5	ECI 5	Main PA	18900	1880	-	21.10	22.50	1.38			0.07	0.213	0.294
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.28	16.00	1.18			-0.16	0.125	0.147
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.25	16.00	1.189			-0.16	0.100	0.119
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.28	16.00	1.18			0.15	0.199	0.235
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.25	16.00	1.189			0.01	0.161	0.191
	LTE Band 7	20M	QPSK	1	0	Left Sdie	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.28	16.00	1.18			0.12	0.081	0.096
	LTE Band 7	20M	QPSK	50	0	Left Sdie	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.25	16.00	1.189			-0.18	0.073	0.087
	LTE Band 7	20M	QPSK	1	0	Right Sdie	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.28	16.00	1.18			-0.03	0.024	0.028
	LTE Band 7	20M	QPSK	50	0	Right Sdie	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.25	16.00	1.189			0.17	0.020	0.024
	LTE Band 7	20M	QPSK	1	0	Top Sdie	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.28	16.00	1.18			0.01	0.342	0.404
	LTE Band 7	20M	QPSK	50	0	Top Sdie	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.25	16.00	1.189			-0.07	0.282	0.335
	LTE Band 7	20M	QPSK	1	0	Top Sdie	10mm	Ant 2	ECI 5-1	Other PA	21100	2535	-	15.21	16.50	1.346			0.03	0.246	0.331
	LTE Band 7	20M	QPSK	1	0	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.28	16.00	1.18			-0.15	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	21100	2535	-	15.25	16.00	1.189			-0.06	0.001	0.001
	LTE Band 7	20M	QPSK	1	99	Top Sdie	10mm	Ant 2	ECI 5	Main PA	21100+21298	2535+2554.8	-	15.21	16.00	1.199			0.02	0.301	0.361
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.83	20.00	1.309			-0.06	0.161	0.211
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.81	20.00	1.315			-0.05	0.128	0.168
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.83	20.00	1.309			0.01	0.200	0.262
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.81	20.00	1.315			0.13	0.159	0.209
	LTE Band 7	20M	QPSK	1	0	Left Sdie	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.83	20.00	1.309			0.07	0.001	0.001



FCC SAR Test Report

Report No. : FA5N1302

	LTE Band 7	20M	QPSK	50	0	Left Sdile	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.81	20.00	1.315			0.06	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Right Sdile	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.83	20.00	1.309			-0.08	0.330	0.432
	LTE Band 7	20M	QPSK	50	0	Right Sdile	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.81	20.00	1.315			-0.05	0.274	0.360
	LTE Band 7	20M	QPSK	1	0	Top Sdile	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.83	20.00	1.309			-0.11	0.018	0.024
	LTE Band 7	20M	QPSK	50	0	Top Sdile	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.81	20.00	1.315			-0.00	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.83	20.00	1.309			0.01	0.010	0.013
	LTE Band 7	20M	QPSK	50	0	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	21100	2535	-	18.81	20.00	1.315			-0.03	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Right Sdile	10mm	Ant 3	ECI 5-1	Other PA	21100	2535	-	18.76	20.00	1.33			-0.10	0.262	0.348
	LTE Band 7	20M	QPSK	1	99	Right Sdile	10mm	Ant 3	ECI 5	Main PA	21100+ 21298	2535+ 2554.8	-	18.75	20.00	1.334			0.01	0.255	0.340
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.99	19.20	1.321			0.04	0.140	0.185
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.95	19.20	1.334			0.06	0.116	0.155
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.99	19.20	1.321			0.15	0.208	0.275
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.95	19.20	1.334			0.18	0.165	0.220
	LTE Band 7	20M	QPSK	1	0	Left Sdile	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.99	19.20	1.321			-0.06	0.377	0.498
	LTE Band 7	20M	QPSK	50	0	Left Sdile	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.95	19.20	1.334			0.13	0.314	0.419
	LTE Band 7	20M	QPSK	1	0	Left Sdile	10mm	Ant 4	ECI 5-1	Other PA	21100	2535	-	17.94	18.70	1.191			-0.12	0.361	0.430
	LTE Band 7	20M	QPSK	1	0	Right Sdile	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.99	19.20	1.321			-0.18	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Right Sdile	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.95	19.20	1.334			0.02	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Top Sdile	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.99	19.20	1.321			0.04	0.046	0.061
	LTE Band 7	20M	QPSK	50	0	Top Sdile	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.95	19.20	1.334			-0.10	0.030	0.040
	LTE Band 7	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.99	19.20	1.321			-0.02	0.019	0.025
	LTE Band 7	20M	QPSK	50	0	Bottom Sdile	10mm	Ant 4	ECI 5	Main PA	21100	2535	-	17.95	19.20	1.334			-0.10	0.012	0.016
	LTE Band 7	20M	QPSK	1	99	Left Sdile	10mm	Ant 4	ECI 5	Main PA	21100+ 21298	2535+ 2554.8	-	17.86	19.20	1.361			0.02	0.301	0.410
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.85	22.00	1.303			0.03	0.195	0.254
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.81	22.00	1.315			0.07	0.166	0.218
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.85	22.00	1.303			0.16	0.237	0.309
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.81	22.00	1.315			0.11	0.216	0.284
	LTE Band 7	20M	QPSK	1	0	Left Sdile	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.85	22.00	1.303			-0.08	0.078	0.102
	LTE Band 7	20M	QPSK	50	0	Left Sdile	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.81	22.00	1.315			0.03	0.062	0.082
	LTE Band 7	20M	QPSK	1	0	Right Sdile	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.85	22.00	1.303			-0.09	0.063	0.082
	LTE Band 7	20M	QPSK	50	0	Right Sdile	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.81	22.00	1.315			0.15	0.046	0.060
	LTE Band 7	20M	QPSK	1	0	Top Sdile	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.85	22.00	1.303			-0.17	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Top Sdile	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.81	22.00	1.315			-0.11	0.001	0.001
32	LTE Band 7	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.85	22.00	1.303			-0.10	0.781	1.018
	LTE Band 7	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	20850	2510	-	20.77	22.00	1.327			-0.08	0.705	0.936
	LTE Band 7	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	21350	2560	-	20.84	22.00	1.306			0.10	0.615	0.803
	LTE Band 7	20M	QPSK	50	0	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	21100	2535	-	20.81	22.00	1.315			-0.10	0.516	0.679
	LTE Band 7	20M	QPSK	100	0	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	21350	2560	-	20.74	22.00	1.337			-0.12	0.497	0.664
	LTE Band 7	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 5	ECI 5-1	Other PA	21100	2535	-	20.77	22.00	1.327			0.11	0.482	0.640
	LTE Band 7	20M	QPSK	1	99	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	21100+ 21298	2535+ 2554.8	-	20.79	22.00	1.321			0.01	0.651	0.860
	LTE Band 26	15M	QPSK	1	0	Front	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	24.46	25.50	1.271			0.01	0.381	0.484
	LTE Band 26	15M	QPSK	36	0	Front	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	23.49	24.50	1.262			0.01	0.318	0.401
	LTE Band 26	15M	QPSK	1	0	Back	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	24.46	25.50	1.271			-0.06	0.417	0.530
	LTE Band 26	15M	QPSK	36	0	Back	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	23.49	24.50	1.262			0.10	0.345	0.435
	LTE Band 26	15M	QPSK	1	0	Back	10mm	Ant 0	ECI 5-1	Other PA	26865	831.5	code: 34	24.10	25.00	1.23			0.07	0.355	0.437
	LTE Band 26	15M	QPSK	1	0	Left Sdile	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	24.46	25.50	1.271			-0.18	0.117	0.149
	LTE Band 26	15M	QPSK	36	0	Left Sdile	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	23.49	24.50	1.262			0.15	0.098	0.124
	LTE Band 26	15M	QPSK	1	0	Right Sdile	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	24.46	25.50	1.271			0.07	0.200	0.254
	LTE Band 26	15M	QPSK	36	0	Right Sdile	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	23.49	24.50	1.262			0.09	0.173	0.218
	LTE Band 26	15M	QPSK	1	0	Top Sdile	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	24.46	25.50	1.271			-0.05	0.002	0.003
	LTE Band 26	15M	QPSK	36	0	Top Sdile	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	23.49	24.50	1.262			-0.03	0.002	0.003
	LTE Band 26	15M	QPSK	1	0	Bottom Sdile	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	24.46	25.50	1.271			0.12	0.306	0.389
	LTE Band 26	15M	QPSK	36	0	Bottom Sdile	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 34	23.49	24.50	1.262			-0.10	0.257	0.324
	LTE Band 26	15M	QPSK	1	0	Back	10mm	Ant 0	ECI 5	Main PA	26865	831.5	code: 78	24.37	25.50	1.297			0.17	0.212	0.275
	LTE Band 26	15M	QPSK	1	0	Front	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.05	22.00	1.245			-0.15	0.305	0.380
	LTE Band 26	15M	QPSK	36	0	Front	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.03	22.00	1.25			-0.05	0.261	0.326
	LTE Band 26	15M	QPSK	1	0	Back	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.05	22.00	1.245			-0.08	0.345	0.430
	LTE Band 26	15M	QPSK	36	0	Back	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.03	22.00	1.25			-0.09	0.294	0.367
33	LTE Band 26	15M	QPSK	1	0	Left Sdile	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.05	22.00	1.245			0.02	0.438	0.545
	LTE Band 26	15M	QPSK	36	0	Left Sdile	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.03	22.00	1.25			-0.10	0.370	0.463
	LTE Band 26	15M	QPSK	1	0	Left Sdile	10mm	Ant 1	ECI 5-1	Other PA	26865	831.5	code: 0	21.03	22.00	1.25			-0.10	0.387	0.484
	LTE Band 26	15M	QPSK	1	0	Right Sdile	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.05	22.00	1.245			0.04	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Right Sdile	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.03	22.00	1.25			-0.03	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Top Sdile	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.05	22.00	1.245			0.18	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Top Sdile	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.03	22.00	1.25			0.01	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Bottom Sdile	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.05	22.00	1.245			-0.17	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Bottom Sdile	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 0	21.03	22.00	1.25			-0.17	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Left Sdile	10mm	Ant 1	ECI 5	Main PA	26865	831.5	code: 1	21.05	22.00	1.245			0.05	0.411	0.512
	LTE Band 66	20M	QPSK	1	0																



FCC SAR Test Report

Report No. : FA5N1302

	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : B0	17.85	19.00	1.303			0.14	0.170	0.222
	LTE Band 66	20M	QPSK	1	0	Left Sdlie	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : B0	17.90	19.00	1.288			-0.11	0.067	0.086
	LTE Band 66	20M	QPSK	50	0	Left Sdlie	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : B0	17.85	19.00	1.303			-0.06	0.048	0.063
	LTE Band 66	20M	QPSK	1	0	Right Sdlie	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : B0	17.90	19.00	1.288			0.14	0.030	0.039
	LTE Band 66	20M	QPSK	50	0	Right Sdlie	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : B0	17.85	19.00	1.303			0.06	0.024	0.031
	LTE Band 66	20M	QPSK	1	0	Top Sdlie	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : B0	17.90	19.00	1.288			-0.09	0.303	0.390
	LTE Band 66	20M	QPSK	50	0	Top Sdlie	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : B0	17.85	19.00	1.303			-0.06	0.236	0.308
	LTE Band 66	20M	QPSK	1	0	Bottom Sdlie	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : B0	17.90	19.00	1.288			0.19	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Bottom Sdlie	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : B0	17.85	19.00	1.303			0.16	0.001	0.001
	LTE Band 66	20M	QPSK	1	0	Top Sdlie	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : B4	17.90	19.00	1.288			0.02	0.251	0.323
	LTE Band 66	20M	QPSK	1	0	Top Sdlie	10mm	Ant 2	ECI 5	Main PA	132322	1745	code : 96	17.90	19.00	1.288			0.03	0.231	0.298
	LTE Band 66	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.35	19.70	1.365			0.15	0.183	0.250
	LTE Band 66	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.33	19.70	1.371			-0.08	0.190	0.260
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.35	19.70	1.365			-0.05	0.275	0.375
	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.33	19.70	1.371			-0.01	0.211	0.289
	LTE Band 66	20M	QPSK	1	0	Left Sdlie	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.35	19.70	1.365			0.02	0.002	0.003
	LTE Band 66	20M	QPSK	50	0	Left Sdlie	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.33	19.70	1.371			-0.18	0.002	0.003
	LTE Band 66	20M	QPSK	1	0	Right Sdlie	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.35	19.70	1.365			0.12	0.338	0.461
	LTE Band 66	20M	QPSK	50	0	Right Sdlie	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.33	19.70	1.371			-0.18	0.268	0.367
	LTE Band 66	20M	QPSK	1	0	Top Sdlie	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.35	19.70	1.365			0.19	0.002	0.003
	LTE Band 66	20M	QPSK	50	0	Top Sdlie	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.33	19.70	1.371			-0.10	0.002	0.003
	LTE Band 66	20M	QPSK	1	0	Bottom Sdlie	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.35	19.70	1.365			0.12	0.002	0.003
	LTE Band 66	20M	QPSK	50	0	Bottom Sdlie	10mm	Ant 3	ECI 5	Main PA	132322	1745	-	18.33	19.70	1.371			-0.10	0.002	0.003
	LTE Band 66	20M	QPSK	1	0	Front	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.24	18.70	1.112			-0.14	0.161	0.179
	LTE Band 66	20M	QPSK	50	0	Front	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.20	18.70	1.122			-0.07	0.161	0.181
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.24	18.70	1.112			-0.16	0.216	0.240
	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.20	18.70	1.122			-0.12	0.161	0.181
	LTE Band 66	20M	QPSK	1	0	Left Sdlie	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.24	18.70	1.112			0.02	0.241	0.268
	LTE Band 66	20M	QPSK	50	0	Left Sdlie	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.20	18.70	1.122			0.03	0.210	0.236
	LTE Band 66	20M	QPSK	1	0	Right Sdlie	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.24	18.70	1.112			-0.15	0.031	0.034
	LTE Band 66	20M	QPSK	50	0	Right Sdlie	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.20	18.70	1.122			-0.04	0.025	0.028
	LTE Band 66	20M	QPSK	1	0	Top Sdlie	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.24	18.70	1.112			0.13	0.093	0.103
	LTE Band 66	20M	QPSK	50	0	Top Sdlie	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.20	18.70	1.122			0.05	0.068	0.076
	LTE Band 66	20M	QPSK	1	0	Bottom Sdlie	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.24	18.70	1.112			0.10	0.012	0.013
	LTE Band 66	20M	QPSK	50	0	Bottom Sdlie	10mm	Ant 4	ECI 5	Main PA	132322	1745	-	18.20	18.70	1.122			-0.18	0.012	0.013
	LTE Band 66	20M	QPSK	1	0	Front	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.24	20.50	1.337			-0.07	0.323	0.432
	LTE Band 66	20M	QPSK	50	0	Front	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.21	20.50	1.346			-0.18	0.215	0.289
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.24	20.50	1.337			-0.00	0.334	0.447
	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.21	20.50	1.346			-0.04	0.269	0.362
	LTE Band 66	20M	QPSK	1	0	Left Sdlie	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.24	20.50	1.337			-0.09	0.097	0.130
	LTE Band 66	20M	QPSK	50	0	Left Sdlie	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.21	20.50	1.346			0.00	0.075	0.101
	LTE Band 66	20M	QPSK	1	0	Right Sdlie	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.24	20.50	1.337			-0.01	0.054	0.072
	LTE Band 66	20M	QPSK	50	0	Right Sdlie	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.21	20.50	1.346			-0.00	0.043	0.058
	LTE Band 66	20M	QPSK	1	0	Top Sdlie	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.24	20.50	1.337			0.11	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Top Sdlie	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.21	20.50	1.346			0.17	0.001	0.001
34	LTE Band 66	20M	QPSK	1	0	Bottom Sdlie	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.24	20.50	1.337			-0.08	0.463	0.619
	LTE Band 66	20M	QPSK	50	0	Bottom Sdlie	10mm	Ant 5	ECI 5	Main PA	132322	1745	-	19.21	20.50	1.346			-0.16	0.388	0.522
	LTE Band 41	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.55	18.00	1.396	62.9	1.006	-0.15	0.067	0.094
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.43	18.00	1.435	62.9	1.006	-0.14	0.041	0.059
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.55	18.00	1.396	62.9	1.006	-0.11	0.106	0.149
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.43	18.00	1.435	62.9	1.006	-0.12	0.084	0.121
	LTE Band 41	20M	QPSK	1	0	Left Sdlie	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.55	18.00	1.396	62.9	1.006	-0.01	0.051	0.072
	LTE Band 41	20M	QPSK	50	0	Left Sdlie	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.43	18.00	1.435	62.9	1.006	0.18	0.044	0.064
	LTE Band 41	20M	QPSK	1	0	Right Sdlie	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.55	18.00	1.396	62.9	1.006	0.00	0.013	0.018
	LTE Band 41	20M	QPSK	50	0	Right Sdlie	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.43	18.00	1.435	62.9	1.006	0.08	0.010	0.014
	LTE Band 41	20M	QPSK	1	0	Top Sdlie	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.55	18.00	1.396	62.9	1.006	-0.02	0.206	0.289
	LTE Band 41	20M	QPSK	50	0	Top Sdlie	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.43	18.00	1.435	62.9	1.006	-0.11	0.126	0.182
	LTE Band 41	20M	QPSK	1	0	Bottom Sdlie	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.55	18.00	1.396	62.9	1.006	0.03	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Bottom Sdlie	10mm	Ant 2	ECI 5	Main PA	40620	2593	-	16.43	18.00	1.435	62.9	1.006	0.10	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Top Sdlie	10mm	Ant 2	ECI 5-1	Other PA	40620	2593	-	16.76	18.50	1.493	62.9	1.006	-0.04	0.164	0.246
	LTE Band 41	20M	QPSK	1	99	Top Sdlie	10mm	Ant 2	ECI 5	Main PA	40620+ 40818	2593+ 2612.8	-	16.51	18.00	1.409	62.9	1.006	0.02	0.171	0.242
	LTE Band 41	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 5	Main PA	40620	2593	-	20.51	21.50	1.256	62.9	1.006	-0.10	0.131	0.166
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 5	Main PA	40620	2593	-	20.49	21.50	1.262	62.9	1.006	-0.04	0.109	0.138
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 5	Main PA	40620	2593	-	20.51	21.50	1.256	62.9	1.006	0.18	0.164	0.207
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 5	Main PA	40620	2593	-	20.49	21.50	1.262	62.9	1.006	-0.01	0.131	0.166
	LTE Band 41	20M	QPSK	1	0	Left Sdlie	10mm	Ant 3	ECI 5	Main PA	40620	2593	-	20.51	21.50	1.256	62.9	1.006	-0.07	0.002	0.003
	LTE Band 41	20M	QPSK	50	0	Left Sdlie	10mm	Ant 3	ECI 5	Main PA	40620	2593	-	20.49	21.50	1.262	62.9	1.006	-0.03	0.002	0.003
	LTE Band 41	20M	QPSK	1	0	Right Sdlie	10mm	Ant 3	ECI 5												



FCC SAR Test Report

Report No. : FA5N1302

	LTE Band 41	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	40620	2593	-	20.51	21.50	1.256	62.9	1.006	0.03	0.002	0.003
	LTE Band 41	20M	QPSK	50	0	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	40620	2593	-	20.49	21.50	1.262	62.9	1.006	0.04	0.002	0.003
	LTE Band 41	20M	QPSK	1	0	Right Sdile	10mm	Ant 3	ECI 5-1	Other PA	40620	2593	-	20.45	21.50	1.274	62.9	1.006	0.01	0.263	0.337
	LTE Band 41	20M	QPSK	1	99	Right Sdile	10mm	Ant 3	ECI 5	Main PA	40620+ 40818	2593+ 2612.8	-	20.45	21.50	1.274	62.9	1.006	0.02	0.305	0.391
	LTE Band 41	20M	QPSK	1	0	Front	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.94	19.70	1.191	62.9	1.006	0.08	0.152	0.182
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.91	19.70	1.199	62.9	1.006	0.16	0.121	0.146
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.94	19.70	1.191	62.9	1.006	-0.12	0.210	0.252
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.91	19.70	1.199	62.9	1.006	-0.13	0.168	0.203
	LTE Band 41	20M	QPSK	1	0	Left Sdile	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.94	19.70	1.191	62.9	1.006	-0.06	0.352	0.422
	LTE Band 41	20M	QPSK	50	0	Left Sdile	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.91	19.70	1.199	62.9	1.006	0.02	0.278	0.335
	LTE Band 41	20M	QPSK	1	0	Left Sdile	10mm	Ant 4	ECI 5-1	Other PA	40620	2593	-	18.93	19.20	1.064	62.9	1.006	0.02	0.295	0.316
	LTE Band 41	20M	QPSK	1	0	Right Sdile	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.94	19.70	1.191	62.9	1.006	-0.12	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right Sdile	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.91	19.70	1.199	62.9	1.006	-0.10	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Top Sdile	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.94	19.70	1.191	62.9	1.006	0.02	0.037	0.044
	LTE Band 41	20M	QPSK	50	0	Top Sdile	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.91	19.70	1.199	62.9	1.006	0.01	0.026	0.031
	LTE Band 41	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.94	19.70	1.191	62.9	1.006	0.11	0.021	0.025
	LTE Band 41	20M	QPSK	50	0	Bottom Sdile	10mm	Ant 4	ECI 5	Main PA	40620	2593	-	18.91	19.70	1.199	62.9	1.006	0.00	0.016	0.019
	LTE Band 41	20M	QPSK	1	99	Left Sdile	10mm	Ant 4	ECI 5	Main PA	40620+ 40818	2593+ 2612.8	-	18.89	19.70	1.205	62.9	1.006	0.01	0.305	0.370
	LTE Band 41	20M	QPSK	1	0	Front	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.15	22.00	1.216	62.9	1.006	-0.18	0.218	0.267
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.13	22.00	1.222	62.9	1.006	0.05	0.177	0.218
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.15	22.00	1.216	62.9	1.006	0.11	0.260	0.318
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.13	22.00	1.222	62.9	1.006	0.05	0.229	0.282
	LTE Band 41	20M	QPSK	1	0	Left Sdile	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.15	22.00	1.216	62.9	1.006	0.16	0.062	0.076
	LTE Band 41	20M	QPSK	50	0	Left Sdile	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.13	22.00	1.222	62.9	1.006	0.10	0.042	0.052
	LTE Band 41	20M	QPSK	1	0	Right Sdile	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.15	22.00	1.216	62.9	1.006	-0.06	0.042	0.051
	LTE Band 41	20M	QPSK	50	0	Right Sdile	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.13	22.00	1.222	62.9	1.006	-0.13	0.031	0.038
	LTE Band 41	20M	QPSK	1	0	Top Sdile	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.15	22.00	1.216	62.9	1.006	-0.18	0.002	0.002
	LTE Band 41	20M	QPSK	50	0	Top Sdile	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.13	22.00	1.222	62.9	1.006	-0.13	0.002	0.002
35	LTE Band 41	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.15	22.00	1.216	62.9	1.006	0.02	0.489	0.598
	LTE Band 41	20M	QPSK	50	0	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	40620	2593	-	21.13	22.00	1.222	62.9	1.006	0.05	0.395	0.486
	LTE Band 41	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 5	ECI 5-1	Other PA	40620	2593	-	21.04	22.00	1.247	62.9	1.006	-0.09	0.305	0.383
	LTE Band 41	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	40620+ 40818	2593+ 2612.8	-	21.03	22.00	1.25	62.9	1.006	0.01	0.425	0.534
	LTE Band 42	20M	QPSK	1	0	Front	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.98	18.00	1.265	62.9	1.006	0.02	0.092	0.117
	LTE Band 42	20M	QPSK	50	0	Front	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.95	18.00	1.274	62.9	1.006	0.01	0.074	0.095
	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.98	18.00	1.265	62.9	1.006	-0.18	0.117	0.149
	LTE Band 42	20M	QPSK	50	0	Back	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.95	18.00	1.274	62.9	1.006	0.09	0.096	0.123
	LTE Band 42	20M	QPSK	1	0	Left Sdile	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.98	18.00	1.265	62.9	1.006	-0.07	0.179	0.228
	LTE Band 42	20M	QPSK	50	0	Left Sdile	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.95	18.00	1.274	62.9	1.006	0.06	0.147	0.188
	LTE Band 42	20M	QPSK	1	0	Right Sdile	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.98	18.00	1.265	62.9	1.006	0.12	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Right Sdile	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.95	18.00	1.274	62.9	1.006	-0.16	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Top Sdile	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.98	18.00	1.265	62.9	1.006	0.02	0.022	0.028
	LTE Band 42	20M	QPSK	50	0	Top Sdile	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.95	18.00	1.274	62.9	1.006	-0.02	0.019	0.024
	LTE Band 42	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.98	18.00	1.265	62.9	1.006	0.09	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Bottom Sdile	10mm	Ant 1	ECI 5	Main PA	42590	3500	-	16.95	18.00	1.274	62.9	1.006	0.04	0.001	0.001
	LTE Band 42	20M	QPSK	1	99	Left Sdile	10mm	Ant 1	ECI 5	Main PA	42590+ 42788	3500+ 3519.8	-	16.68	18.00	1.355	62.9	1.006	0.01	0.135	0.184
	LTE Band 42	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.19	18.00	1.205	62.9	1.006	0.04	0.110	0.133
	LTE Band 42	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.15	18.00	1.216	62.9	1.006	0.11	0.091	0.111
	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.19	18.00	1.205	62.9	1.006	-0.17	0.201	0.244
	LTE Band 42	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.15	18.00	1.216	62.9	1.006	-0.10	0.156	0.191
	LTE Band 42	20M	QPSK	1	0	Left Sdile	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.19	18.00	1.205	62.9	1.006	-0.13	0.045	0.055
	LTE Band 42	20M	QPSK	50	0	Left Sdile	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.15	18.00	1.216	62.9	1.006	0.03	0.032	0.039
	LTE Band 42	20M	QPSK	1	0	Right Sdile	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.19	18.00	1.205	62.9	1.006	0.12	0.026	0.032
	LTE Band 42	20M	QPSK	50	0	Right Sdile	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.15	18.00	1.216	62.9	1.006	-0.17	0.019	0.023
36	LTE Band 42	20M	QPSK	1	0	Top Sdile	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.19	18.00	1.205	62.9	1.006	0.01	0.221	0.268
	LTE Band 42	20M	QPSK	50	0	Top Sdile	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.15	18.00	1.216	62.9	1.006	-0.18	0.175	0.214
	LTE Band 42	20M	QPSK	1	0	Bottom Sdile	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.19	18.00	1.205	62.9	1.006	0.07	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Bottom Sdile	10mm	Ant 2	ECI 5	Main PA	42590	3500	-	17.15	18.00	1.216	62.9	1.006	0.16	0.001	0.001
	LTE Band 42	20M	QPSK	1	99	Top Sdile	10mm	Ant 2	ECI 5	Main PA	42590+ 42788	3500+ 3519.8	-	17.01	18.00	1.256	62.9	1.006	0.02	0.201	0.254
	LTE Band 42	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 5	Main PA	42590	3500	-	23.89	25.50	1.449	62.9	1.006	-0.06	0.071	0.103
	LTE Band 42	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 5	Main PA	42590	3500	-	22.95	24.50	1.429	62.9	1.006	-0.02	0.056	0.081
	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 5	Main PA	42590	3500	-	23.89	25.50	1.449	62.9	1.006	-0.09	0.159	0.232
	LTE Band 42	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 5	Main PA	42590	3500	-	22.95	24.50	1.429	62.9	1.006	0.09	0.134	0.193
	LTE Band 42	20M	QPSK	1	0	Left Sdile	10mm	Ant 3	ECI 5	Main PA	42590	3500	-	23.89	25.50	1.449	62.9	1.006	0.08	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Left Sdile	10mm	Ant 3	ECI 5	Main PA	42590	3500	-	22.95	24.50	1.429	62.9	1.006	-0.11	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Right Sdile															



FCC SAR Test Report

Report No. : FA5N1302

										42788	3519.8										
	LTE Band 42	20M	QPSK	1	0	Front	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	-0.11	0.047	0.059
	LTE Band 42	20M	QPSK	50	0	Front	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	0.13	0.040	0.049
	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	-0.06	0.060	0.075
	LTE Band 42	20M	QPSK	50	0	Back	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	-0.18	0.047	0.057
	LTE Band 42	20M	QPSK	1	0	Left Sdie	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	0.10	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Left Sdie	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	0.12	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Right Sdie	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	-0.10	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Right Sdie	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	0.00	0.001	0.001
	LTE Band 42	20M	QPSK	1	0	Top Sdie	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	0.01	0.095	0.119
	LTE Band 42	20M	QPSK	50	0	Top Sdie	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	0.06	0.069	0.084
	LTE Band 42	20M	QPSK	1	0	Bottom Sdie	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	0.18	0.001	0.001
	LTE Band 42	20M	QPSK	50	0	Bottom Sdie	10mm	Ant 6	ECI 5	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	-0.02	0.001	0.001
	LTE Band 42	20M	QPSK	1	99	Top Sdie	10mm	Ant 6	ECI 5	Main PA	42590+ 42788	3500+ 3519.8	-	22.45	23.50	1.274	62.9	1.006	0.03	0.081	0.104
	LTE Band 48	20M	QPSK	1	0	Front	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.74	18.50	1.191	62.9	1.006	-0.15	0.087	0.104
	LTE Band 48	20M	QPSK	50	0	Front	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.73	18.50	1.194	62.9	1.006	-0.16	0.067	0.080
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.74	18.50	1.191	62.9	1.006	-0.14	0.134	0.161
	LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.73	18.50	1.194	62.9	1.006	0.12	0.105	0.126
	LTE Band 48	20M	QPSK	1	0	Left Sdie	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.74	18.50	1.191	62.9	1.006	0.01	0.212	0.254
	LTE Band 48	20M	QPSK	50	0	Left Sdie	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.73	18.50	1.194	62.9	1.006	0.10	0.167	0.201
	LTE Band 48	20M	QPSK	1	0	Right Sdie	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.74	18.50	1.191	62.9	1.006	-0.11	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Right Sdie	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.73	18.50	1.194	62.9	1.006	-0.13	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Top Sdie	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.74	18.50	1.191	62.9	1.006	0.14	0.029	0.035
	LTE Band 48	20M	QPSK	50	0	Top Sdie	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.73	18.50	1.194	62.9	1.006	-0.04	0.022	0.026
	LTE Band 48	20M	QPSK	1	0	Bottom Sdie	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.74	18.50	1.191	62.9	1.006	0.03	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Bottom Sdie	10mm	Ant 1	ECI 5	Main PA	55990	3625	-	17.73	18.50	1.194	62.9	1.006	-0.10	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.28	18.00	1.18	62.9	1.006	-0.15	0.084	0.100
	LTE Band 48	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.25	18.00	1.189	62.9	1.006	-0.09	0.067	0.080
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.28	18.00	1.18	62.9	1.006	-0.03	0.131	0.156
	LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.25	18.00	1.189	62.9	1.006	-0.12	0.114	0.136
	LTE Band 48	20M	QPSK	1	0	Left Sdie	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.28	18.00	1.18	62.9	1.006	0.16	0.037	0.044
	LTE Band 48	20M	QPSK	50	0	Left Sdie	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.25	18.00	1.189	62.9	1.006	0.01	0.029	0.035
	LTE Band 48	20M	QPSK	1	0	Right Sdie	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.28	18.00	1.18	62.9	1.006	-0.17	0.017	0.020
	LTE Band 48	20M	QPSK	50	0	Right Sdie	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.25	18.00	1.189	62.9	1.006	0.15	0.013	0.016
	LTE Band 48	20M	QPSK	1	0	Top Sdie	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.28	18.00	1.18	62.9	1.006	-0.04	0.153	0.182
	LTE Band 48	20M	QPSK	50	0	Top Sdie	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.25	18.00	1.189	62.9	1.006	0.15	0.122	0.146
	LTE Band 48	20M	QPSK	1	0	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.28	18.00	1.18	62.9	1.006	0.05	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	55990	3625	-	17.25	18.00	1.189	62.9	1.006	-0.11	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	-0.16	0.072	0.102
	LTE Band 48	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	0.06	0.058	0.080
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	0.15	0.157	0.222
	LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	-0.14	0.125	0.173
	LTE Band 48	20M	QPSK	1	0	Left Sdie	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	-0.03	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Left Sdie	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	-0.01	0.001	0.001
37	LTE Band 48	20M	QPSK	1	0	Right Sdie	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	0.01	0.224	0.317
	LTE Band 48	20M	QPSK	50	0	Right Sdie	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	-0.16	0.182	0.252
	LTE Band 48	20M	QPSK	1	0	Top Sdie	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	-0.09	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Top Sdie	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	-0.11	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Bottom Sdie	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	0.12	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Bottom Sdie	10mm	Ant 3	ECI 5	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	0.01	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Front	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.15	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Front	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.07	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	-0.08	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.13	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Left Sdie	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.14	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Left Sdie	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	-0.18	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Right Sdie	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.01	0.048	0.062
	LTE Band 48	20M	QPSK	50	0	Right Sdie	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	-0.17	0.039	0.049
	LTE Band 48	20M	QPSK	1	0	Top Sdie	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.16	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Top Sdie	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.04	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Bottom Sdie	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.18	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Bottom Sdie	10mm	Ant 6	ECI 5	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.17	0.001	0.001



【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	code(NO.)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n2	20M	BPSK	1	1	Front	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.73	19.50	1.194			-0.01	0.129	0.154
	FR1 n2	20M	BPSK	50	28	Front	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.69	19.50	1.205			-0.08	0.200	0.241
	FR1 n2	20M	BPSK	1	1	Back	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.73	19.50	1.194			0.04	0.252	0.301
	FR1 n2	20M	BPSK	50	28	Back	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.69	19.50	1.205			0.12	0.279	0.336
	FR1 n2	20M	BPSK	1	1	Left Sdile	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.73	19.50	1.194			0.13	0.066	0.079
	FR1 n2	20M	BPSK	50	28	Left Sdile	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.69	19.50	1.205			-0.19	0.047	0.057
	FR1 n2	20M	BPSK	1	1	Right Sdile	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.73	19.50	1.194			-0.04	0.031	0.037
	FR1 n2	20M	BPSK	50	28	Right Sdile	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.69	19.50	1.205			0.08	0.024	0.029
	FR1 n2	20M	BPSK	1	1	Top Sdile	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.73	19.50	1.194			-0.18	0.290	0.346
38	FR1 n2	20M	BPSK	50	28	Top Sdile	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.69	19.50	1.205			-0.02	0.378	0.455
	FR1 n2	20M	BPSK	1	1	Bottom Sdile	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.73	19.50	1.194			0.15	0.001	0.001
	FR1 n2	20M	BPSK	50	28	Bottom Sdile	10mm	Ant 2	ECI 5	Main PA	376000	1880	-	18.69	19.50	1.205			0.09	0.001	0.001
	FR1 n2	20M	BPSK	1	1	Front	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.65	23.00	1.365			0.17	0.175	0.239
	FR1 n2	20M	BPSK	50	28	Front	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.63	23.00	1.371			-0.08	0.158	0.217
	FR1 n2	20M	BPSK	1	1	Back	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.65	23.00	1.365			0.12	0.142	0.194
	FR1 n2	20M	BPSK	50	28	Back	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.63	23.00	1.371			0.11	0.203	0.278
	FR1 n2	20M	BPSK	1	1	Left Sdile	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.65	23.00	1.365			-0.13	0.001	0.001
	FR1 n2	20M	BPSK	50	28	Left Sdile	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.63	23.00	1.371			0.04	0.001	0.001
	FR1 n2	20M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.65	23.00	1.365			-0.04	0.286	0.390
	FR1 n2	20M	BPSK	50	28	Right Sdile	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.63	23.00	1.371			0.03	0.246	0.337
	FR1 n2	20M	BPSK	1	1	Top Sdile	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.65	23.00	1.365			-0.17	0.001	0.001
	FR1 n2	20M	BPSK	50	28	Top Sdile	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.63	23.00	1.371			-0.13	0.001	0.001
	FR1 n2	20M	BPSK	1	1	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.65	23.00	1.365			-0.10	0.001	0.001
	FR1 n2	20M	BPSK	50	28	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	376000	1880	-	21.63	23.00	1.371			-0.13	0.001	0.001
	FR1 n2	20M	BPSK	1	1	Front	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.24	14.50	1.337			-0.14	0.087	0.116
	FR1 n2	20M	BPSK	50	28	Front	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.22	14.50	1.343			0.09	0.078	0.105
	FR1 n2	20M	BPSK	1	1	Back	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.24	14.50	1.337			-0.16	0.092	0.123
	FR1 n2	20M	BPSK	50	28	Back	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.22	14.50	1.343			-0.16	0.079	0.106
	FR1 n2	20M	BPSK	1	1	Left Sdile	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.24	14.50	1.337			-0.05	0.175	0.234
	FR1 n2	20M	BPSK	50	28	Left Sdile	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.22	14.50	1.343			0.08	0.147	0.197
	FR1 n2	20M	BPSK	1	1	Right Sdile	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.24	14.50	1.337			-0.01	0.016	0.021
	FR1 n2	20M	BPSK	50	28	Right Sdile	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.22	14.50	1.343			0.17	0.014	0.019
	FR1 n2	20M	BPSK	1	1	Top Sdile	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.24	14.50	1.337			0.03	0.045	0.060
	FR1 n2	20M	BPSK	50	28	Top Sdile	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.22	14.50	1.343			-0.04	0.038	0.051
	FR1 n2	20M	BPSK	1	1	Bottom Sdile	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.24	14.50	1.337			-0.13	0.001	0.001
	FR1 n2	20M	BPSK	50	28	Bottom Sdile	10mm	Ant 4	ECI 5	Main PA	376000	1880	-	13.22	14.50	1.343			-0.11	0.001	0.001
	FR1 n2	20M	BPSK	1	1	Front	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.91	22.00	1.285			-0.06	0.148	0.190
	FR1 n2	20M	BPSK	50	28	Front	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.88	22.00	1.294			-0.03	0.118	0.153
	FR1 n2	20M	BPSK	1	1	Back	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.91	22.00	1.285			-0.08	0.173	0.222
	FR1 n2	20M	BPSK	50	28	Back	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.88	22.00	1.294			0.00	0.139	0.180
	FR1 n2	20M	BPSK	1	1	Left Sdile	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.91	22.00	1.285			0.08	0.056	0.072
	FR1 n2	20M	BPSK	50	28	Left Sdile	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.88	22.00	1.294			0.15	0.046	0.060
	FR1 n2	20M	BPSK	1	1	Right Sdile	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.91	22.00	1.285			0.07	0.033	0.042
	FR1 n2	20M	BPSK	50	28	Right Sdile	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.88	22.00	1.294			0.01	0.028	0.036
	FR1 n2	20M	BPSK	1	1	Top Sdile	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.91	22.00	1.285			-0.03	0.002	0.003
	FR1 n2	20M	BPSK	50	28	Top Sdile	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.88	22.00	1.294			-0.08	0.001	0.001
	FR1 n2	20M	BPSK	1	1	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.91	22.00	1.285			0.02	0.202	0.260
	FR1 n2	20M	BPSK	50	28	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	376000	1880	-	20.88	22.00	1.294			0.13	0.163	0.211
	FR1 n5	20M	BPSK	1	1	Front	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.31	25.50	1.315			-0.14	0.331	0.435
	FR1 n5	20M	BPSK	50	28	Front	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.30	25.50	1.318			0.14	0.371	0.489
	FR1 n5	20M	BPSK	1	1	Back	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.31	25.50	1.315			-0.02	0.392	0.515
	FR1 n5	20M	BPSK	50	28	Back	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.30	25.50	1.318			-0.02	0.434	0.572
	FR1 n5	20M	BPSK	1	1	Left Sdile	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.31	25.50	1.315			0.05	0.111	0.146
	FR1 n5	20M	BPSK	50	28	Left Sdile	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.30	25.50	1.318			0.03	0.132	0.174
	FR1 n5	20M	BPSK	1	1	Right Sdile	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.31	25.50	1.315			0.11	0.221	0.291
	FR1 n5	20M	BPSK	50	28	Right Sdile	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.30	25.50	1.318			0.06	0.262	0.345
	FR1 n5	20M	BPSK	1	1	Top Sdile	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.31	25.50	1.315			0.11	0.002	0.003
	FR1 n5	20M	BPSK	50	28	Top Sdile	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.30	25.50	1.318			-0.16	0.002	0.003
	FR1 n5	20M	BPSK	1	1	Bottom Sdile	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.31	25.50	1.315			-0.18	0.281	0.370
	FR1 n5	20M	BPSK	50	28	Bottom Sdile	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 34	24.30	25.50	1.318			-0.05	0.347	0.457
	FR1 n5	20M	BPSK	50	28	Back	10mm	Ant 0	ECI 5	Main PA	167300	836.5	code 78	24.30	25.50	1.318			-0.17	0.198	0.261
	FR1 n5	20M	BPSK	1	1	Front	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.29	21.50	1.321			0.14	0.302	0.399
	FR1 n5	20M	BPSK	50	28	Front	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.28	21.50	1.324			0.09	0.397	0.526
	FR1 n5	20M	BPSK	1	1	Back	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.29	21.50	1.321			-0.10	0.302	0.399
	FR1 n5	20M	BPSK	50	28	Back	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.28	21.50	1.324			0.01	0.457	0.605
39	FR1 n5	20M	BPSK	1	1	Left Sdile	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.29	21.50	1.321			0.02	0.588	0.777
	FR1 n5	20M	BPSK	50	28	Left Sdile	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.28	21.50	1.324			-0.07	0.459	0.608
	FR1 n5	20M	BPSK	1	1	Right Sdile	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.29	21.50	1.321					



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n5	20M	BPSK	50	28	Right SdIE	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.28	21.50	1.324			-0.08	0.001	0.001
	FR1 n5	20M	BPSK	1	1	Top SdIE	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.29	21.50	1.321			0.07	0.001	0.001
	FR1 n5	20M	BPSK	50	28	Top SdIE	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.28	21.50	1.324			-0.17	0.001	0.001
	FR1 n5	20M	BPSK	1	1	Bottom SdIE	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.29	21.50	1.321			0.01	0.001	0.001
	FR1 n5	20M	BPSK	50	28	Bottom SdIE	10mm	Ant 1	ECI 5	Main PA	167300	836.5	code 0	20.28	21.50	1.324			0.08	0.001	0.001
	FR1 n5	20M	BPSK	1	1	Left SdIE	10mm	Ant 1	ECI 5	Main PA	167300	836.5	-	20.29	21.50	1.321			0.02	0.411	0.543
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.53	17.00	1.114			0.12	0.090	0.100
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.51	17.00	1.119			-0.17	0.110	0.123
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.53	17.00	1.114			0.10	0.205	0.228
	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.51	17.00	1.119			-0.08	0.216	0.242
	FR1 n7	50M	BPSK	1	1	Left SdIE	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.53	17.00	1.114			-0.05	0.064	0.071
	FR1 n7	50M	BPSK	135	68	Left SdIE	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.51	17.00	1.119			-0.18	0.097	0.109
	FR1 n7	50M	BPSK	1	1	Right SdIE	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.53	17.00	1.114			-0.07	0.019	0.021
	FR1 n7	50M	BPSK	135	68	Right SdIE	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.51	17.00	1.119			0.12	0.040	0.045
	FR1 n7	50M	BPSK	1	1	Top SdIE	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.53	17.00	1.114			-0.03	0.333	0.371
	FR1 n7	50M	BPSK	135	68	Top SdIE	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.51	17.00	1.119			0.05	0.379	0.424
	FR1 n7	50M	BPSK	135	68	Top SdIE	10mm	Ant 2	ECI 5-1	Other PA	507000	2535	-	16.39	17.50	1.291			0.07	0.324	0.418
	FR1 n7	50M	BPSK	1	1	Bottom SdIE	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.53	17.00	1.114			-0.09	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Bottom SdIE	10mm	Ant 2	ECI 5	Main PA	507000	2535	-	16.51	17.00	1.119			-0.02	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.03	20.00	1.25			0.17	0.152	0.190
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.02	20.00	1.253			-0.10	0.095	0.119
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.03	20.00	1.25			-0.06	0.176	0.220
	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.02	20.00	1.253			0.12	0.133	0.167
	FR1 n7	50M	BPSK	1	1	Left SdIE	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.03	20.00	1.25			0.17	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Left SdIE	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.02	20.00	1.253			-0.03	0.001	0.001
40	FR1 n7	50M	BPSK	1	1	Right SdIE	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.03	20.00	1.25			-0.05	0.382	0.478
	FR1 n7	50M	BPSK	135	68	Right SdIE	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.02	20.00	1.253			-0.04	0.308	0.386
	FR1 n7	50M	BPSK	1	1	Right SdIE	10mm	Ant 3	ECI 5-1	Other PA	507000	2535	-	18.98	20.00	1.265			-0.08	0.322	0.407
	FR1 n7	50M	BPSK	1	1	Top SdIE	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.03	20.00	1.25			-0.03	0.024	0.030
	FR1 n7	50M	BPSK	135	68	Top SdIE	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.02	20.00	1.253			0.14	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Bottom SdIE	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.03	20.00	1.25			0.11	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Bottom SdIE	10mm	Ant 3	ECI 5	Main PA	507000	2535	-	19.02	20.00	1.253			-0.14	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.31	18.70	1.094			0.06	0.123	0.135
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.29	18.70	1.099			-0.09	0.126	0.138
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.31	18.70	1.094			-0.11	0.187	0.205
	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.29	18.70	1.099			0.07	0.215	0.236
	FR1 n7	50M	BPSK	1	1	Left SdIE	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.31	18.70	1.094			-0.05	0.330	0.361
	FR1 n7	50M	BPSK	135	68	Left SdIE	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.29	18.70	1.099			-0.01	0.369	0.406
	FR1 n7	50M	BPSK	1	1	Right SdIE	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.31	18.70	1.094			-0.19	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Right SdIE	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.29	18.70	1.099			0.07	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Right SdIE	10mm	Ant 4	ECI 5-1	Other PA	507000	2535	-	17.95	18.20	1.059			-0.10	0.352	0.373
	FR1 n7	50M	BPSK	1	1	Top SdIE	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.31	18.70	1.094			-0.13	0.039	0.043
	FR1 n7	50M	BPSK	135	68	Top SdIE	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.29	18.70	1.099			0.04	0.032	0.035
	FR1 n7	50M	BPSK	1	1	Bottom SdIE	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.31	18.70	1.094			0.16	0.020	0.022
	FR1 n7	50M	BPSK	135	68	Bottom SdIE	10mm	Ant 4	ECI 5	Main PA	507000	2535	-	18.29	18.70	1.099			0.08	0.022	0.024
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.37	20.00	1.156			0.15	0.156	0.180
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.35	20.00	1.161			0.01	0.177	0.205
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.37	20.00	1.156			0.16	0.186	0.215
	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.35	20.00	1.161			-0.06	0.223	0.259
	FR1 n7	50M	BPSK	1	1	Left SdIE	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.37	20.00	1.156			-0.15	0.042	0.049
	FR1 n7	50M	BPSK	135	68	Left SdIE	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.35	20.00	1.161			0.16	0.061	0.071
	FR1 n7	50M	BPSK	1	1	Right SdIE	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.37	20.00	1.156			-0.01	0.034	0.039
	FR1 n7	50M	BPSK	135	68	Right SdIE	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.35	20.00	1.161			0.19	0.049	0.057
	FR1 n7	50M	BPSK	1	1	Top SdIE	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.37	20.00	1.156			0.02	0.001	0.001
	FR1 n7	50M	BPSK	135	68	Top SdIE	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.35	20.00	1.161			0.10	0.001	0.001
	FR1 n7	50M	BPSK	1	1	Bottom SdIE	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.37	20.00	1.156			-0.13	0.205	0.237
	FR1 n7	50M	BPSK	135	68	Bottom SdIE	10mm	Ant 5	ECI 5	Main PA	507000	2535	-	19.35	20.00	1.161			-0.02	0.306	0.355
	FR1 n7	50M	BPSK	135	68	Bottom SdIE	10mm	Ant 5	ECI 5-1	Other PA	507000	2535	-	19.21	20.00	1.199			0.01	0.255	0.306
	FR1 n66	40M	BPSK	1	1	Front	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.45	20.00	1.135			-0.11	0.144	0.163
	FR1 n66	40M	BPSK	108	54	Front	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.43	20.00	1.14			0.13	0.155	0.177
	FR1 n66	40M	BPSK	1	1	Back	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.45	20.00	1.135			-0.02	0.214	0.243
	FR1 n66	40M	BPSK	108	54	Back	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.43	20.00	1.14			-0.03	0.224	0.255
	FR1 n66	40M	BPSK	1	1	Left SdIE	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.45	20.00	1.135			0.18	0.072	0.082
	FR1 n66	40M	BPSK	108	54	Left SdIE	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.43	20.00	1.14			-0.12	0.086	0.098
	FR1 n66	40M	BPSK	1	1	Right SdIE	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.45	20.00	1.135			0.01	0.021	0.024
	FR1 n66	40M	BPSK	108	54	Right SdIE	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.43	20.00	1.14			-0.18	0.023	0.026
	FR1 n66	40M	BPSK	1	1	Top SdIE	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.45	20.00	1.135			-0.06	0.285	0.323
	FR1 n66	40M	BPSK	108	54	Top SdIE	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.43	20.00	1.14			-0.06	0.246	0.280
	FR1 n66	40M	BPSK	1	1	Bottom SdIE	10mm	Ant 2	ECI 5	Main PA	349000	1745	code B0	19.45	20.00	1.135			0.10	0.001	



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n66	40M	BPSK	108	54	Front	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.47	19.70	1.327			0.08	0.047	0.062
	FR1 n66	40M	BPSK	1	1	Back	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.49	19.70	1.321			-0.08	0.043	0.057
	FR1 n66	40M	BPSK	108	54	Back	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.47	19.70	1.327			0.15	0.062	0.082
	FR1 n66	40M	BPSK	1	1	Left Sdile	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.49	19.70	1.321			0.19	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Left Sdile	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.47	19.70	1.327			-0.06	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.49	19.70	1.321			0.03	0.100	0.132
	FR1 n66	40M	BPSK	108	54	Right Sdile	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.47	19.70	1.327			0.01	0.105	0.139
	FR1 n66	40M	BPSK	1	1	Top Sdile	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.49	19.70	1.321			0.11	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Top Sdile	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.47	19.70	1.327			0.08	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.49	19.70	1.321			0.06	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	349000	1745	code 61	18.47	19.70	1.327			0.17	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Right Sdile	10mm	Ant 3	ECI 5	Main PA	349000	1745	-	18.47	19.70	1.327			0.02	0.081	0.107
	FR1 n66	40M	BPSK	1	1	Front	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.71	19.20	1.119			-0.02	0.103	0.115
	FR1 n66	40M	BPSK	108	54	Front	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.69	19.20	1.125			0.02	0.092	0.103
	FR1 n66	40M	BPSK	1	1	Back	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.71	19.20	1.119			0.06	0.144	0.161
	FR1 n66	40M	BPSK	108	54	Back	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.69	19.20	1.125			0.19	0.136	0.153
	FR1 n66	40M	BPSK	1	1	Left Sdile	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.71	19.20	1.119			0.13	0.135	0.151
	FR1 n66	40M	BPSK	108	54	Left Sdile	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.69	19.20	1.125			-0.01	0.174	0.196
	FR1 n66	40M	BPSK	1	1	Right Sdile	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.71	19.20	1.119			-0.12	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Right Sdile	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.69	19.20	1.125			0.16	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Top Sdile	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.71	19.20	1.119			-0.07	0.048	0.054
	FR1 n66	40M	BPSK	108	54	Top Sdile	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.69	19.20	1.125			-0.14	0.059	0.066
	FR1 n66	40M	BPSK	1	1	Bottom Sdile	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.71	19.20	1.119			-0.05	0.012	0.013
	FR1 n66	40M	BPSK	108	54	Bottom Sdile	10mm	Ant 4	ECI 5	Main PA	349000	1745	-	18.69	19.20	1.125			0.16	0.013	0.015
	FR1 n66	40M	BPSK	1	1	Front	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.27	20.50	1.327			-0.11	0.182	0.242
	FR1 n66	40M	BPSK	108	54	Front	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.25	20.50	1.334			-0.04	0.136	0.181
	FR1 n66	40M	BPSK	1	1	Back	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.27	20.50	1.327			0.18	0.238	0.316
	FR1 n66	40M	BPSK	108	54	Back	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.25	20.50	1.334			0.00	0.170	0.227
	FR1 n66	40M	BPSK	1	1	Left Sdile	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.27	20.50	1.327			-0.16	0.063	0.084
	FR1 n66	40M	BPSK	108	54	Left Sdile	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.25	20.50	1.334			0.02	0.061	0.081
	FR1 n66	40M	BPSK	1	1	Right Sdile	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.27	20.50	1.327			-0.04	0.039	0.052
	FR1 n66	40M	BPSK	108	54	Right Sdile	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.25	20.50	1.334			0.02	0.040	0.053
	FR1 n66	40M	BPSK	1	1	Top Sdile	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.27	20.50	1.327			-0.03	0.001	0.001
	FR1 n66	40M	BPSK	108	54	Top Sdile	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.25	20.50	1.334			0.05	0.001	0.001
	FR1 n66	40M	BPSK	1	1	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.27	20.50	1.327			-0.11	0.336	0.446
41	FR1 n66	40M	BPSK	108	54	Bottom Sdile	10mm	Ant 5	ECI 5	Main PA	349000	1745	-	19.25	20.50	1.334			0.02	0.411	0.548
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.18	16.50	1.076			0.11	0.068	0.073
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.15	16.50	1.084			-0.10	0.064	0.069
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.18	16.50	1.076			0.10	0.115	0.124
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.15	16.50	1.084			-0.15	0.109	0.118
	FR1 n41	100M	BPSK	1	1	Left Sdile	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.18	16.50	1.076			-0.15	0.058	0.062
	FR1 n41	100M	BPSK	135	69	Left Sdile	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.15	16.50	1.084			-0.09	0.060	0.065
	FR1 n41	100M	BPSK	1	1	Right Sdile	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.18	16.50	1.076			-0.10	0.035	0.038
	FR1 n41	100M	BPSK	135	69	Right Sdile	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.15	16.50	1.084			0.14	0.026	0.028
	FR1 n41	100M	BPSK	1	1	Top Sdile	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.18	16.50	1.076			-0.15	0.228	0.245
	FR1 n41	100M	BPSK	135	69	Top Sdile	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.15	16.50	1.084			0.02	0.253	0.274
	FR1 n41	100M	BPSK	135	69	Top Sdile	10mm	Ant 2	ECI 5-1	Other PA	518598	2592.99	-	16.11	17.00	1.227			-0.09	0.225	0.276
	FR1 n41	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.18	16.50	1.076			0.03	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 2	ECI 5	Main PA	518598	2592.99	-	16.15	16.50	1.084			-0.06	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.98	21.00	1.265			0.15	0.138	0.175
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.95	21.00	1.274			-0.03	0.145	0.185
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.98	21.00	1.265			0.12	0.132	0.167
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.95	21.00	1.274			0.18	0.154	0.196
	FR1 n41	100M	BPSK	1	1	Left Sdile	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.98	21.00	1.265			-0.17	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Left Sdile	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.95	21.00	1.274			-0.14	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.98	21.00	1.265			-0.04	0.381	0.482
	FR1 n41	100M	BPSK	135	69	Right Sdile	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.95	21.00	1.274			-0.11	0.375	0.478
	FR1 n41	100M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5-1	Other PA	518598	2592.99	-	19.92	21.00	1.282			0.09	0.366	0.469
	FR1 n41	100M	BPSK	1	1	Top Sdile	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.98	21.00	1.265			-0.04	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Top Sdile	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.95	21.00	1.274			0.19	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.98	21.00	1.265			0.12	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	518598	2592.99	-	19.95	21.00	1.274			-0.10	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 4	ECI 5	Main PA	518598	2592.99	-	17.39	17.70	1.074			0.16	0.069	0.074
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 4	ECI 5	Main PA	518598	2592.99	-	17.35	17.70	1.084			-0.10	0.108	0.117
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 4	ECI 5	Main PA	518598	2592.99	-	17.39	17.70	1.074			0.17	0.127	0.136
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 4	ECI 5	Main PA	518598	2592.99	-	17.35	17.70	1.084			-0.11	0.163	0.177
	FR1 n41	100M	BPSK	1	1	Left Sdile	10mm	Ant 4	ECI 5	Main PA	518598	2592.99	-	17.39	17.70	1.074			0.08	0.261	0.280
	FR1 n41	100M	BPSK	135	69	Left Sdile	10mm	Ant 4	ECI 5	Main PA	518598	2592.99	-	17.35	17.70	1.084			-0.01	0.288	



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n41	100M	BPSK	1	1	Bottom Sdie	10mm	Ant 4	ECI 5	Main PA	518598	2592.99	-	17.39	17.70	1.074			0.05	0.014	0.015
	FR1 n41	100M	BPSK	135	69	Bottom Sdie	10mm	Ant 4	ECI 5	Main PA	518598	2592.99	-	17.35	17.70	1.084			0.07	0.016	0.017
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.19	21.00	1.205			-0.02	0.236	0.284
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.18	21.00	1.208			-0.17	0.278	0.336
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.19	21.00	1.205			0.08	0.283	0.341
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.18	21.00	1.208			-0.04	0.330	0.399
	FR1 n41	100M	BPSK	1	1	Left Sdie	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.19	21.00	1.205			-0.09	0.084	0.101
	FR1 n41	100M	BPSK	135	69	Left Sdie	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.18	21.00	1.208			-0.10	0.094	0.114
	FR1 n41	100M	BPSK	1	1	Right Sdie	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.19	21.00	1.205			0.09	0.056	0.067
	FR1 n41	100M	BPSK	135	69	Right Sdie	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.18	21.00	1.208			-0.18	0.070	0.085
	FR1 n41	100M	BPSK	1	1	Top Sdie	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.19	21.00	1.205			0.13	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Top Sdie	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.18	21.00	1.208			0.01	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Bottom Sdie	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.19	21.00	1.205			-0.13	0.404	0.487
42	FR1 n41	100M	BPSK	135	69	Bottom Sdie	10mm	Ant 5	ECI 5	Main PA	518598	2592.99	-	20.18	21.00	1.208			0.09	0.448	0.541
	FR1 n41	100M	BPSK	135	69	Bottom Sdie	10mm	Ant 5	ECI 5-1	Other PA	518598	2592.99	-	20.11	21.00	1.227			-0.18	0.370	0.454
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.90	16.00	1.288			0.12	0.099	0.128
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.89	16.00	1.291			0.01	0.090	0.116
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.90	16.00	1.288			-0.06	0.130	0.167
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.89	16.00	1.291			-0.04	0.126	0.163
	FR1 n48	40M	BPSK	1	1	Left Sdie	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.90	16.00	1.288			0.11	0.254	0.327
	FR1 n48	40M	BPSK	50	28	Left Sdie	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.89	16.00	1.291			-0.08	0.241	0.311
	FR1 n48	40M	BPSK	1	1	Right Sdie	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.90	16.00	1.288			-0.12	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Right Sdie	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.89	16.00	1.291			-0.15	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Top Sdie	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.90	16.00	1.288			-0.19	0.026	0.033
	FR1 n48	40M	BPSK	50	28	Top Sdie	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.89	16.00	1.291			-0.02	0.024	0.031
	FR1 n48	40M	BPSK	1	1	Bottom Sdie	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.90	16.00	1.288			-0.12	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Bottom Sdie	10mm	Ant 1	ECI 5	Main PA	641666	3624.99	-	14.89	16.00	1.291			0.07	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.51	17.00	1.119			0.02	0.077	0.086
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.48	17.00	1.127			-0.15	0.079	0.089
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.51	17.00	1.119			-0.13	0.123	0.138
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.48	17.00	1.127			-0.04	0.115	0.130
	FR1 n48	40M	BPSK	1	1	Left Sdie	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.51	17.00	1.119			-0.09	0.031	0.035
	FR1 n48	40M	BPSK	50	28	Left Sdie	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.48	17.00	1.127			-0.09	0.032	0.036
	FR1 n48	40M	BPSK	1	1	Right Sdie	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.51	17.00	1.119			-0.14	0.018	0.020
	FR1 n48	40M	BPSK	50	28	Right Sdie	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.48	17.00	1.127			0.19	0.019	0.021
	FR1 n48	40M	BPSK	1	1	Top Sdie	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.51	17.00	1.119			0.09	0.145	0.162
	FR1 n48	40M	BPSK	50	28	Top Sdie	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.48	17.00	1.127			0.01	0.155	0.175
	FR1 n48	40M	BPSK	1	1	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.51	17.00	1.119			-0.03	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	641666	3624.99	-	16.48	17.00	1.127			0.02	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.69	23.00	1.352			0.17	0.074	0.100
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.68	23.00	1.355			-0.17	0.069	0.093
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.69	23.00	1.352			0.16	0.167	0.226
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.68	23.00	1.355			0.11	0.174	0.236
	FR1 n48	40M	BPSK	1	1	Left Sdie	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.69	23.00	1.352			0.12	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Left Sdie	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.68	23.00	1.355			0.01	0.001	0.001
43	FR1 n48	40M	BPSK	1	1	Right Sdie	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.69	23.00	1.352			-0.06	0.264	0.357
	FR1 n48	40M	BPSK	50	28	Right Sdie	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.68	23.00	1.355			-0.08	0.260	0.352
	FR1 n48	40M	BPSK	1	1	Top Sdie	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.69	23.00	1.352			-0.08	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Top Sdie	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.68	23.00	1.355			0.12	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Bottom Sdie	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.69	23.00	1.352			0.12	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Bottom Sdie	10mm	Ant 3	ECI 5	Main PA	641666	3624.99	-	21.68	23.00	1.355			-0.13	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.32	21.50	1.312			-0.17	0.048	0.063
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.08	0.050	0.067
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.32	21.50	1.312			-0.01	0.052	0.068
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.26	21.50	1.33			-0.05	0.053	0.070
	FR1 n48	40M	BPSK	1	1	Left Sdie	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.32	21.50	1.312			-0.18	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Left Sdie	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.10	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Right Sdie	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.32	21.50	1.312			-0.12	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Right Sdie	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.05	0.001	0.001
	FR1 n48	40M	BPSK	1	1	Top Sdie	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.32	21.50	1.312			0.02	0.073	0.096
	FR1 n48	40M	BPSK	50	28	Top Sdie	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.02	0.066	0.088
	FR1 n48	40M	BPSK	1	1	Bottom Sdie	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.32	21.50	1.312			-0.09	0.001	0.001
	FR1 n48	40M	BPSK	50	28	Bottom Sdie	10mm	Ant 6	ECI 5	Main PA	641666	3624.99	-	20.26	21.50	1.33			-0.08	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 1	ECI 5	Main PA	633332	3499.98	-	13.59	14.50	1.233			0.06	0.045	0.055
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 1	ECI 5	Main PA	633332	3499.98	-	13.55	14.50	1.245			-0.04	0.064	0.080
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 1	ECI 5	Main PA	633332	3499.98	-	13.59	14.50	1.233			-0.16	0.061	0.075
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 1	ECI 5	Main PA	633332	3499.98	-	13.55	14.50	1.245			0.17	0.071	0.088
	FR1 n77	100M	BPSK	1	1	Left Sdie	10mm	Ant 1	ECI 5	Main PA	633332	3499.98	-	13.59	14.50	1.233			0.15	0.132	0.163
	FR1 n77																				



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n77	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 1	ECI 5	Main PA	633332	3499.98	-	13.59	14.50	1.233			-0.17	0.006	0.007
	FR1 n77	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 1	ECI 5	Main PA	633332	3499.98	-	13.55	14.50	1.245			-0.02	0.007	0.009
	FR1 n77_HPUE	100M	BPSK	135	69	Left Sdile	10mm	Ant 1	ECI 5	Main PA	633332	3499.98	-	16.68	17.50	1.208	50.0	1.0	0.02	0.165	0.199
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.51	15.00	1.119			-0.06	0.073	0.082
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.49	15.00	1.125			-0.06	0.079	0.089
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.51	15.00	1.119			-0.01	0.131	0.147
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.49	15.00	1.125			0.04	0.119	0.134
	FR1 n77	100M	BPSK	1	1	Left Sdile	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.51	15.00	1.119			0.08	0.029	0.032
	FR1 n77	100M	BPSK	135	69	Left Sdile	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.49	15.00	1.125			-0.06	0.030	0.034
	FR1 n77	100M	BPSK	1	1	Right Sdile	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.51	15.00	1.119			0.08	0.016	0.018
	FR1 n77	100M	BPSK	135	69	Right Sdile	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.49	15.00	1.125			0.08	0.017	0.019
	FR1 n77	100M	BPSK	1	1	Top Sdile	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.51	15.00	1.119			0.19	0.153	0.171
	FR1 n77	100M	BPSK	135	69	Top Sdile	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.49	15.00	1.125			0.02	0.133	0.150
	FR1 n77	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.51	15.00	1.119			0.14	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	14.49	15.00	1.125			-0.03	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	1	1	Top Sdile	10mm	Ant 2	ECI 5	Main PA	633332	3499.98	-	17.55	18.00	1.109	50.0	1.0	-0.01	0.143	0.159
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.61	22.00	1.377			0.16	0.135	0.186
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.59	22.00	1.384			0.05	0.069	0.095
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.61	22.00	1.377			0.04	0.100	0.138
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.59	22.00	1.384			-0.08	0.118	0.163
	FR1 n77	100M	BPSK	1	1	Left Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.61	22.00	1.377			0.16	0.002	0.003
	FR1 n77	100M	BPSK	135	69	Left Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.59	22.00	1.384			-0.07	0.002	0.003
	FR1 n77	100M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.61	22.00	1.377			0.02	0.363	0.500
	FR1 n77	100M	BPSK	135	69	Right Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.59	22.00	1.384			0.16	0.311	0.430
	FR1 n77	100M	BPSK	1	1	Top Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.61	22.00	1.377			0.09	0.026	0.036
	FR1 n77	100M	BPSK	135	69	Top Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.59	22.00	1.384			-0.03	0.014	0.019
	FR1 n77	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.61	22.00	1.377			0.01	0.002	0.003
	FR1 n77	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	20.59	22.00	1.384			-0.15	0.002	0.003
	FR1 n77_HPUE	100M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98	-	23.65	25.00	1.365	50.0	1.0	0.18	0.346	0.472
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.17	0.089	0.122
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.11	21.50	1.377			-0.12	0.075	0.103
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.13	0.115	0.158
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.11	21.50	1.377			-0.08	0.100	0.138
	FR1 n77	100M	BPSK	1	1	Left Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.13	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Left Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.11	21.50	1.377			-0.08	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Right Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.03	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Right Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.11	21.50	1.377			-0.06	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Top Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.02	0.208	0.286
	FR1 n77	100M	BPSK	135	69	Top Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.11	21.50	1.377			0.12	0.180	0.248
	FR1 n77	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.12	21.50	1.374			-0.13	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	20.11	21.50	1.377			0.16	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	1	1	Top Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98	-	22.07	23.50	1.39	50.0	1.0	0.03	0.165	0.229
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.45	14.50	1.274			-0.03	0.041	0.052
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.43	14.50	1.279			-0.16	0.042	0.054
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.45	14.50	1.274			0.12	0.062	0.079
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.43	14.50	1.279			-0.07	0.048	0.061
	FR1 n77	100M	BPSK	1	1	Left Sdile	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.45	14.50	1.274			0.01	0.105	0.134
	FR1 n77	100M	BPSK	135	69	Left Sdile	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.43	14.50	1.279			-0.01	0.095	0.122
	FR1 n77	100M	BPSK	1	1	Right Sdile	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.45	14.50	1.274			-0.10	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Right Sdile	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.43	14.50	1.279			-0.01	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Top Sdile	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.45	14.50	1.274			-0.05	0.014	0.018
	FR1 n77	100M	BPSK	135	69	Top Sdile	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.43	14.50	1.279			0.04	0.014	0.018
	FR1 n77	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.45	14.50	1.274			-0.16	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	13.43	14.50	1.279			-0.18	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	1	1	Left Sdile	10mm	Ant 1	ECI 5	Main PA	656000	3840	-	16.32	17.50	1.312	50.0	1.0	0.10	0.099	0.130
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.53	15.00	1.114			0.07	0.056	0.062
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.51	15.00	1.119			0.06	0.063	0.070
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.53	15.00	1.114			0.07	0.076	0.085
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.51	15.00	1.119			-0.03	0.082	0.092
	FR1 n77	100M	BPSK	1	1	Left Sdile	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.53	15.00	1.114			-0.18	0.017	0.019
	FR1 n77	100M	BPSK	135	69	Left Sdile	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.51	15.00	1.119			-0.16	0.015	0.017
	FR1 n77	100M	BPSK	1	1	Right Sdile	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.53	15.00	1.114			0.00	0.007	0.008
	FR1 n77	100M	BPSK	135	69	Right Sdile	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.51	15.00	1.119			-0.10	0.007	0.008
	FR1 n77	100M	BPSK	1	1	Top Sdile	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.53	15.00	1.114			-0.01	0.104	0.116
	FR1 n77	100M	BPSK	135	69	Top Sdile	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.51	15.00	1.119			0.02	0.095	0.106
	FR1 n77	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.53	15.00	1.114			0.13	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 2	ECI 5	Main PA	656000	3840	-	14.51	15.00	1.119			-0.05	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	1	1	Top Sdile	10mm	Ant 2	ECI 5	Main PA	656000	38									



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n77	100M	BPSK	135	69	Left Sdile	10mm	Ant 3	ECI 5	Main PA	656000	3840	-	20.58	22.00	1.387			-0.01	0.001	0.001
44	FR1 n77	100M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	656000	3840	-	20.59	22.00	1.384			0.02	0.613	0.848
	FR1 n77	100M	BPSK	135	69	Right Sdile	10mm	Ant 3	ECI 5	Main PA	656000	3840	-	20.58	22.00	1.387			0.04	0.426	0.591
	FR1 n77	100M	BPSK	270	0	Right Sdile	10mm	Ant 3	ECI 5	Main PA	656000	3840	-	20.49	22.00	1.416			0.16	0.431	0.610
	FR1 n77	100M	BPSK	1	1	Top Sdile	10mm	Ant 3	ECI 5	Main PA	656000	3840	-	20.59	22.00	1.384			0.17	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Top Sdile	10mm	Ant 3	ECI 5	Main PA	656000	3840	-	20.58	22.00	1.387			-0.05	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	656000	3840	-	20.59	22.00	1.384			-0.08	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	656000	3840	-	20.58	22.00	1.387			0.13	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	656000	3840	-	23.59	25.00	1.384	50.0	1.0	0.15	0.605	0.837
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.02	21.50	1.406			-0.10	0.074	0.104
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.05	21.50	1.396			-0.16	0.114	0.159
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.02	21.50	1.406			-0.05	0.058	0.082
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.05	21.50	1.396			-0.13	0.068	0.095
	FR1 n77	100M	BPSK	1	1	Left Sdile	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.02	21.50	1.406			0.18	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Left Sdile	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.05	21.50	1.396			0.02	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Right Sdile	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.02	21.50	1.406			-0.08	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Right Sdile	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.05	21.50	1.396			-0.17	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Top Sdile	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.02	21.50	1.406			0.02	0.117	0.165
	FR1 n77	100M	BPSK	135	69	Top Sdile	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.05	21.50	1.396			0.04	0.084	0.117
	FR1 n77	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.02	21.50	1.406			0.16	0.001	0.001
	FR1 n77	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	20.05	21.50	1.396			0.10	0.001	0.001
	FR1 n77_HPUE	100M	BPSK	1	1	Top Sdile	10mm	Ant 6	ECI 5	Main PA	656000	3840	-	22.59	23.50	1.233	50.0	1.0	0.09	0.099	0.122

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	code(NO.)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.71	22.50	1.51			0.12	0.094	0.142
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.69	22.50	1.517			0.06	0.067	0.102
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.71	22.50	1.51			0.18	0.080	0.121
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.69	22.50	1.517			-0.03	0.068	0.103
	FR1 n78	100M	BPSK	1	1	Left Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.71	22.50	1.51			0.05	0.001	0.002
	FR1 n78	100M	BPSK	135	69	Left Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.69	22.50	1.517			0.01	0.001	0.002
	FR1 n78	100M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.71	22.50	1.51			-0.06	0.194	0.293
	FR1 n78	100M	BPSK	135	69	Right Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.69	22.50	1.517			0.15	0.146	0.221
	FR1 n78	100M	BPSK	1	1	Top Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.71	22.50	1.51			-0.13	0.022	0.033
	FR1 n78	100M	BPSK	135	69	Top Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.69	22.50	1.517			-0.05	0.019	0.029
	FR1 n78	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.71	22.50	1.51			0.04	0.020	0.030
	FR1 n78	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		20.69	22.50	1.517			0.10	0.014	0.021
	FR1 n78_HPUE	100M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	633332	3499.98		23.69	25.50	1.517	50.0	1.0	0.14	0.191	0.290
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.59	22.00	1.384			-0.14	0.062	0.086
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.53	22.00	1.403			0.18	0.057	0.080
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.59	22.00	1.384			-0.02	0.076	0.105
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.53	22.00	1.403			0.09	0.065	0.091
	FR1 n78	100M	BPSK	1	1	Left Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.59	22.00	1.384			-0.11	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Left Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.53	22.00	1.403			-0.05	0.001	0.001
	FR1 n78	100M	BPSK	1	1	Right Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.59	22.00	1.384			-0.13	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Right Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.53	22.00	1.403			-0.08	0.001	0.001
	FR1 n78	100M	BPSK	1	1	Top Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.59	22.00	1.384			0.01	0.128	0.177
	FR1 n78	100M	BPSK	135	69	Top Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.53	22.00	1.403			0.09	0.101	0.142
	FR1 n78	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.59	22.00	1.384			-0.01	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		20.53	22.00	1.403			-0.03	0.001	0.001
	FR1 n78_HPUE	100M	BPSK	1	1	Top Sdile	10mm	Ant 6	ECI 5	Main PA	633332	3499.98		24.51	26.00	1.409	50.0	1.0	-0.18	0.157	0.221
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.65	22.50	1.531			-0.10	0.091	0.139
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.61	22.50	1.545			0.09	0.085	0.131
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.65	22.50	1.531			0.13	0.167	0.256
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.61	22.50	1.545			0.17	0.155	0.239
	FR1 n78	100M	BPSK	1	1	Left Sdile	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.65	22.50	1.531			0.01	0.001	0.002
	FR1 n78	100M	BPSK	135	69	Left Sdile	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.61	22.50	1.545			0.13	0.001	0.002
45	FR1 n78	100M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.65	22.50	1.531			0.02	0.230	0.352
	FR1 n78	100M	BPSK	135	69	Right Sdile	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.61	22.50	1.545			0.09	0.214	0.331
	FR1 n78	100M	BPSK	1	1	Top Sdile	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.65	22.50	1.531			0.14	0.001	0.002
	FR1 n78	100M	BPSK	135	69	Top Sdile	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.61	22.50	1.545			-0.15	0.001	0.002
	FR1 n78	100M	BPSK	1	1	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.65	22.50	1.531			-0.08	0.001	0.002
	FR1 n78	100M	BPSK	135	69	Bottom Sdile	10mm	Ant 3	ECI 5	Main PA	650000	3750		20.61	22.50	1.545			0.15	0.001	0.002
	FR1 n78_HPUE	100M	BPSK	1	1	Right Sdile	10mm	Ant 3	ECI 5	Main PA	650000	3750		23.73	25.50	1.503	50.0	1.0	-0.03	0.221	0.332
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.67	22.00	1.358			0.09	0.058	0.079
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.74	22.00	1.337			0.15	0.064	0.086
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.67	22.00	1.358			-0.03	0.049	0.067
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.74	22.00	1.337			0.15	0.046	0.062
	FR1 n78	100M	BPSK	1	1	Left Sdile	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.67	22.00	1.358			-0.03	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Left Sdile	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.74	22.00	1.337			0.09	0.001	0.001



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n78	100M	BPSK	1	1	Right Sdie	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.67	22.00	1.358			0.02	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Right Sdie	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.74	22.00	1.337			-0.18	0.001	0.001
	FR1 n78	100M	BPSK	1	1	Top Sdie	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.67	22.00	1.358			0.01	0.089	0.121
	FR1 n78	100M	BPSK	135	69	Top Sdie	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.74	22.00	1.337			-0.13	0.071	0.095
	FR1 n78	100M	BPSK	1	1	Bottom Sdie	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.67	22.00	1.358			0.05	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Bottom Sdie	10mm	Ant 6	ECI 5	Main PA	650000	3750		20.74	22.00	1.337			0.12	0.001	0.001
	FR1 n78_HPUE	100M	BPSK	1	1	Top Sdie	10mm	Ant 6	ECI 5	Main PA	650000	3750		24.35	26.00	1.462	50.0	1.0	0.06	0.095	0.139

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	code(NO.)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.76	14.5	1.186	100	1.000	0.02	0.065	0.077
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.75	14.5	1.189	100	1.000	0.03	0.077	0.092
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.76	14.5	1.186	100	1.000	0.03	0.077	0.091
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.75	14.5	1.189	100	1.000	0.06	0.103	0.122
	FR1 n78	100M	BPSK	1	1	Left Sdie	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.76	14.5	1.186	100	1.000	0.01	0.124	0.147
	FR1 n78	100M	BPSK	135	69	Left Sdie	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.75	14.5	1.189	100	1.000	-0.05	0.15	0.178
	FR1 n78	100M	BPSK	1	1	Right Sdie	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.76	14.5	1.186	100	1.000	0.01	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Right Sdie	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.75	14.5	1.189	100	1.000	0.01	0.001	0.001
	FR1 n78	100M	BPSK	1	1	Top Sdie	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.76	14.5	1.186	100	1.000	0.01	0.015	0.018
	FR1 n78	100M	BPSK	135	69	Top Sdie	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.75	14.5	1.189	100	1.000	0.03	0.022	0.026
	FR1 n78	100M	BPSK	1	1	Bottom Sdie	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.76	14.5	1.186	100	1.000	0.01	0.007	0.008
	FR1 n78	100M	BPSK	135	69	Bottom Sdie	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		13.75	14.5	1.189	100	1.000	0.02	0.008	0.01
	FR1 n78_HPUE	100M	BPSK	135	69	Left Sdie	10mm	Ant 1	ECI 5	Main PA	633332	3499.98		16.79	17.5	1.178	50	1.000	0.03	0.161	0.19
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.89	14	1.291	100	1.000	0.02	0.056	0.072
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.85	14	1.303	100	1.000	0.03	0.055	0.072
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.89	14	1.291	100	1.000	0.01	0.094	0.121
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.85	14	1.303	100	1.000	0.02	0.093	0.121
	FR1 n78	100M	BPSK	1	1	Left Sdie	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.89	14	1.291	100	1.000	0.03	0.021	0.027
	FR1 n78	100M	BPSK	135	69	Left Sdie	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.85	14	1.303	100	1.000	0.01	0.023	0.03
	FR1 n78	100M	BPSK	1	1	Right Sdie	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.89	14	1.291	100	1.000	0.02	0.013	0.017
	FR1 n78	100M	BPSK	135	69	Right Sdie	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.85	14	1.303	100	1.000	0.02	0.011	0.014
	FR1 n78	100M	BPSK	1	1	Top Sdie	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.89	14	1.291	100	1.000	-0.05	0.133	0.172
	FR1 n78	100M	BPSK	135	69	Top Sdie	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.85	14	1.303	100	1.000	0.03	0.108	0.141
	FR1 n78	100M	BPSK	1	1	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.89	14	1.291	100	1.000	0.01	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		12.85	14	1.303	100	1.000	0.02	0.001	0.001
	FR1 n78_HPUE	100M	BPSK	1	1	Top Sdie	10mm	Ant 2	ECI 5	Main PA	633332	3499.98		16.09	17	1.233	50	1.000	0.01	0.127	0.157
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.81	14.5	1.172	100	1.000	0.02	0.062	0.073
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.79	14.5	1.178	100	1.000	0.03	0.063	0.074
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.81	14.5	1.172	100	1.000	0.05	0.083	0.097
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.79	14.5	1.178	100	1.000	0.01	0.085	0.1
	FR1 n78	100M	BPSK	1	1	Left Sdie	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.81	14.5	1.172	100	1.000	0.06	0.171	0.2
	FR1 n78	100M	BPSK	135	69	Left Sdie	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.79	14.5	1.178	100	1.000	0.03	0.128	0.151
	FR1 n78	100M	BPSK	1	1	Right Sdie	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.81	14.5	1.172	100	1.000	0.02	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Right Sdie	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.79	14.5	1.178	100	1.000	0.03	0.001	0.001
	FR1 n78	100M	BPSK	1	1	Top Sdie	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.81	14.5	1.172	100	1.000	0.05	0.024	0.028
	FR1 n78	100M	BPSK	135	69	Top Sdie	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.79	14.5	1.178	100	1.000	0.05	0.027	0.032
	FR1 n78	100M	BPSK	1	1	Bottom Sdie	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.81	14.5	1.172	100	1.000	0.01	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Bottom Sdie	10mm	Ant 1	ECI 5	Main PA	650000	3750		13.79	14.5	1.178	100	1.000	0.03	0.001	0.001
	FR1 n78_HPUE	100M	BPSK	1	1	Left Sdie	10mm	Ant 1	ECI 5	Main PA	650000	3750		16.85	17.5	1.161	50	1.000	0.02	0.164	0.19
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.96	14	1.271	100	1.000	0.02	0.02	0.025
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.95	14	1.274	100	1.000	0.03	0.017	0.022
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.96	14	1.271	100	1.000	0.01	0.034	0.043
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.95	14	1.274	100	1.000	0.02	0.032	0.041
	FR1 n78	100M	BPSK	1	1	Left Sdie	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.96	14	1.271	100	1.000	0.03	0.01	0.013
	FR1 n78	100M	BPSK	135	69	Left Sdie	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.95	14	1.274	100	1.000	0.02	0.007	0.009
	FR1 n78	100M	BPSK	1	1	Right Sdie	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.96	14	1.271	100	1.000	0.01	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Right Sdie	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.95	14	1.274	100	1.000	0.03	0.001	0.001
	FR1 n78	100M	BPSK	1	1	Top Sdie	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.96	14	1.271	100	1.000	0.01	0.041	0.052
	FR1 n78	100M	BPSK	135	69	Top Sdie	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.95	14	1.274	100	1.000	0.02	0.034	0.043
	FR1 n78	100M	BPSK	1	1	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.96	14	1.271	100	1.000	0.01	0.001	0.001
	FR1 n78	100M	BPSK	135	69	Bottom Sdie	10mm	Ant 2	ECI 5	Main PA	650000	3750		12.95	14	1.274	100	1.000	0.02	0.001	0.001
	FR1 n78_HPUE	100M	BPSK	1	1	Top Sdie	10mm	Ant 2	ECI 5	Main PA	650000	3750		16.12	17	1.225	50	1.000	0.03	0.043	0.053



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)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 8	WiFi only DBS&Non DBS	1	2412	13.85	14.5	1.161	98.64	1.014	0.02	0.039	0.046
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 8	WiFi only DBS&Non DBS	1	2412	13.85	14.5	1.161	98.64	1.014	0.03	0.040	0.047
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 8	WiFi only DBS&Non DBS	1	2412	13.85	14.5	1.161	98.64	1.014	0.05	0.002	0.002
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 8	WiFi only DBS&Non DBS	1	2412	13.85	14.5	1.161	98.64	1.014	0.01	0.047	0.055
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 8	WiFi only DBS&Non DBS	1	2412	13.85	14.5	1.161	98.64	1.014	0.02	0.016	0.019
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	10mm	Ant 8	WiFi only DBS&Non DBS	1	2412	13.85	14.5	1.161	98.64	1.014	0.03	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 7	WiFi only DBS&Non DBS	1	2412	13.75	14.5	1.189	98.64	1.014	0.02	0.166	0.2
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 7	WiFi only DBS&Non DBS	1	2412	13.75	14.5	1.189	98.64	1.014	0.01	0.170	0.205
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 7	WiFi only DBS&Non DBS	1	2412	13.75	14.5	1.189	98.64	1.014	0.01	0.009	0.011
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 7	WiFi only DBS&Non DBS	1	2412	13.75	14.5	1.189	98.64	1.014	0.05	0.198	0.239
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7	WiFi only DBS&Non DBS	1	2412	13.75	14.5	1.189	98.64	1.014	0.01	0.067	0.081
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	10mm	Ant 7	WiFi only DBS&Non DBS	1	2412	13.75	14.5	1.189	98.64	1.014	0.03	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 7	DBS	1	2412	11.26	12	1.186	98.64	1.014	0.02	0.093	0.112
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 7	DBS	1	2412	11.26	12	1.186	98.64	1.014	0.03	0.095	0.114
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 7	DBS	1	2412	11.26	12	1.186	98.64	1.014	0.01	0.005	0.006
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 7	DBS	1	2412	11.26	12	1.186	98.64	1.014	0.05	0.111	0.133
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 7	DBS	1	2412	11.26	12	1.186	98.64	1.014	0.01	0.037	0.044
	WLAN2.4GHz	802.11b 1Mbps	Bottom Side	10mm	Ant 7	DBS	1	2412	11.26	12	1.186	98.64	1.014	0.03	0.001	0.001
	WLAN2.4GHz	802.11n-HT40 MCS0	Front	10mm	Ant 8+7(8)	WiFi only DBS&Non DBS	6	2437	13.65	14.5	1.216	92.36	1.083	0.05	0.178	0.234
	WLAN2.4GHz	802.11n-HT40 MCS0	Back	10mm	Ant 8+7(8)	WiFi only DBS&Non DBS	6	2437	13.65	14.5	1.216	92.36	1.083	0.01	0.182	0.24
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 8+7(8)	WiFi only DBS&Non DBS	6	2437	13.65	14.5	1.216	92.36	1.083	0.01	0.010	0.013
46	WLAN2.4GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 8+7(8)	WiFi only DBS&Non DBS	6	2437	13.65	14.5	1.216	92.36	1.083	0.01	0.212	0.279
	WLAN2.4GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 8+7(8)	WiFi only DBS&Non DBS	6	2437	13.65	14.5	1.216	92.36	1.083	0.03	0.072	0.095
	WLAN2.4GHz	802.11n-HT40 MCS0	Bottom Side	10mm	Ant 8+7(8)	WiFi only DBS&Non DBS	6	2437	13.65	14.5	1.216	92.36	1.083	0.02	0.001	0.001
	WLAN2.4GHz	802.11n-HT40 MCS0	Front	10mm	Ant 8+7(7)	DBS	6	2437	11.05	12	1.245	92.36	1.083	0.02	0.100	0.135
	WLAN2.4GHz	802.11n-HT40 MCS0	Back	10mm	Ant 8+7(7)	DBS	6	2437	11.05	12	1.245	92.36	1.083	0.03	0.102	0.138
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 8+7(7)	DBS	6	2437	11.05	12	1.245	92.36	1.083	0.05	0.005	0.007
	WLAN2.4GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 8+7(7)	DBS	6	2437	11.05	12	1.245	92.36	1.083	0.06	0.119	0.16
	WLAN2.4GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 8+7(7)	DBS	6	2437	11.05	12	1.245	92.36	1.083	0.01	0.040	0.054
	WLAN2.4GHz	802.11n-HT40 MCS0	Bottom Side	10mm	Ant 8+7(7)	DBS	6	2437	11.05	12	1.245	92.36	1.083	0.02	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 6+7(6)	Full Power	36	5180	18.03	19.0	1.250	96.77	1.033	0.01	0.471	0.608
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 6+7(6)	Full Power	36	5180	18.03	19.0	1.250	96.77	1.033	0	0.360	0.465
	WLAN5GHz	802.11a 6Mbps	Left Side	10mm	Ant 6+7(6)	Full Power	36	5180	18.03	19.0	1.250	96.77	1.033	0.02	0.071	0.092
47	WLAN5GHz	802.11a 6Mbps	Right Side	10mm	Ant 6+7(6)	Full Power	36	5180	18.03	19.0	1.250	96.77	1.033	-0.09	0.542	0.70
	WLAN5GHz	802.11a 6Mbps	Top Side	10mm	Ant 6+7(6)	Full Power	36	5180	18.03	19.0	1.250	96.77	1.033	0.18	0.515	0.665
	WLAN5GHz	802.11a 6Mbps	Bottom Side	10mm	Ant 6+7(6)	Full Power	36	5180	18.03	19.0	1.250	96.77	1.033	-0.18	0.040	0.052
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	WiFi only DBS	46	5230	15.92	16.5	1.143	92.74	1.078	0.02	0.385	0.474
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+7(7)	Non DBS	42	5210	10.75	11.5	1.189	96.61	1.035	0.02	0.151	0.186
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	Non DBS	42	5210	10.75	11.5	1.189	96.61	1.035	0.01	0.113	0.139
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+7(7)	Non DBS	42	5210	10.75	11.5	1.189	96.61	1.035	0.03	0.025	0.031
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Non DBS	42	5210	10.75	11.5	1.189	96.61	1.035	0.02	0.173	0.213
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+7(7)	Non DBS	42	5210	10.75	11.5	1.189	96.61	1.035	0.05	0.161	0.198
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	10mm	Ant 6+7(7)	Non DBS	42	5210	10.75	11.5	1.189	96.61	1.035	0.06	0.011	0.014
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+7(6)	DBS	42	5210	8.23	9.0	1.194	96.61	1.035	0.05	0.095	0.117
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(6)	DBS	42	5210	8.23	9.0	1.194	96.61	1.035	0.06	0.071	0.088
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+7(6)	DBS	42	5210	8.23	9.0	1.194	96.61	1.035	0.01	0.014	0.017
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(6)	DBS	42	5210	8.23	9.0	1.194	96.61	1.035	0.02	0.115	0.142
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+7(6)	DBS	42	5210	8.23	9.0	1.194	96.61	1.035	0.02	0.103	0.127
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	10mm	Ant 6+7(6)	DBS	42	5210	8.23	9.0	1.194	96.61	1.035	0.03	0.008	0.01
	WLAN5GHz	802.11ax-HE80 MCS0	Front	10mm	Ant 6+7(7)	Hotspot	155	5775	18.24	19	1.191	95.36	1.049	-0.12	0.283	0.354
	WLAN5GHz	802.11ax-HE80 MCS0	Back	10mm	Ant 6+7(7)	Hotspot	155	5775	18.24	19	1.191	95.36	1.049	0.09	0.323	0.404
	WLAN5GHz	802.11ax-HE80 MCS0	Left Side	10mm	Ant 6+7(7)	Hotspot	155	5775	18.24	19	1.191	95.36	1.049	-0.07	0.119	0.149
	WLAN5GHz	802.11ax-HE80 MCS0	Right Side	10mm	Ant 6+7(7)	Hotspot	155	5775	18.24	19	1.191	95.36	1.049	0	0.597	0.746
48	WLAN5GHz	802.11ax-HE80 MCS0	Top Side	10mm	Ant 6+7(7)	Hotspot	155	5775	18.24	19	1.191	95.36	1.049	0.09	0.766	0.957
	WLAN5GHz	802.11ax-HE80 MCS0	Bottom Side	10mm	Ant 6+7(7)	Hotspot	151	5755	18.24	19	1.191	95.36	1.049	0.17	0.031	0.038
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+7(7)	WiFi only Non DBS	155	5775	16.63	17.5	1.222	96.61	1.035	0.05	0.589	0.745
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+7(7)	WiFi only DBS	155	5775	15.68	16.5	1.208	96.61	1.035	0.05	0.458	0.573
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+7(7)	Non DBS	155	5775	11.65	12.5	1.216	96.61	1.035	0.03	0.062	0.078
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	Non DBS	155	5775	11.65	12.5	1.216	96.61	1.035	0.05	0.070	0.088
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+7(7)	Non DBS	155	5775	11.65	12.5	1.216	96.61	1.035	0.1	0.026	0.033
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Non DBS	155	5775	11.65	12.5	1.216	96.61	1.035	0.05	0.130	0.164
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+7(7)	Non DBS	155	5775	11.65	12.5	1.216	96.61	1.035	0.03	0.167	0.21
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	10mm	Ant 6+7(7)	Non DBS	155	5775	11.65	12.5	1.216	96.61	1.035	0.03	0.007	0.009
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+7(7)	DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.05	0.043	0.055
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.01	0.049	0.063
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+7(7)	DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.03	0.019	0.024
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.02	0.091	0.116
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+7(7)	DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.03	0.115	0.147
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	10mm	Ant 6+7(7)	DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.01	0.006	0.008



FCC SAR Test Report

Report No. : FA5N1302

	Bluetooth	1Mbps	Front	10mm	Ant 8	Full Power	39	2441	17.17	19	1.524	76.64	1.087	-0.1	0.122	0.202
	Bluetooth	1Mbps	Back	10mm	Ant 8	Full Power	39	2441	17.17	19	1.524	76.64	1.087	0.05	0.157	0.26
	Bluetooth	1Mbps	Left Side	10mm	Ant 8	Full Power	39	2441	17.17	19	1.524	76.64	1.087	0.08	0.032	0.053
	Bluetooth	1Mbps	Right Side	10mm	Ant 8	Full Power	39	2441	17.17	19	1.524	76.64	1.087	0.17	0.052	0.086
	Bluetooth	1Mbps	Top Side	10mm	Ant 8	Full Power	39	2441	17.17	19	1.524	76.64	1.087	-0.04	0.052	0.086
	Bluetooth	1Mbps	Bottom Side	10mm	Ant 8	Full Power	39	2441	17.17	19	1.524	76.64	1.087	0.11	0.001	0.002
	Bluetooth	1Mbps	Front	10mm	Ant 8	Non DBS BT MIMO/DBS	39	2441	14.48	16	1.419	76.64	1.087	0.03	0.055	0.085
	Bluetooth	1Mbps	Back	10mm	Ant 8	Non DBS BT MIMO/DBS	39	2441	14.48	16	1.419	76.64	1.087	0.05	0.081	0.125
	Bluetooth	1Mbps	Left Side	10mm	Ant 8	Non DBS BT MIMO/DBS	39	2441	14.48	16	1.419	76.64	1.087	0.01	0.014	0.022
	Bluetooth	1Mbps	Right Side	10mm	Ant 8	Non DBS BT MIMO/DBS	39	2441	14.48	16	1.419	76.64	1.087	0.02	0.026	0.04
	Bluetooth	1Mbps	Top Side	10mm	Ant 8	Non DBS BT MIMO/DBS	39	2441	14.48	16	1.419	76.64	1.087	0.03	0.062	0.096
	Bluetooth	1Mbps	Bottom Side	10mm	Ant 8	Non DBS BT MIMO/DBS	39	2441	14.48	16	1.419	76.64	1.087	0.01	0.001	0.002
	Bluetooth	1Mbps	Front	10mm	Ant 7	Hotspot	39	2441	15.69	17.5	1.517	76.35	1.091	-0.07	0.191	0.316
	Bluetooth	1Mbps	Back	10mm	Ant 7	Hotspot	39	2441	15.69	17.5	1.517	76.35	1.091	0.03	0.196	0.324
	Bluetooth	1Mbps	Left Side	10mm	Ant 7	Hotspot	39	2441	15.69	17.5	1.517	76.35	1.091	-0.15	0.002	0.003
49	Bluetooth	1Mbps	Right Side	10mm	Ant 7	Hotspot	39	2441	15.69	17.5	1.517	76.35	1.091	0.08	0.317	0.525
	Bluetooth	1Mbps	Top Side	10mm	Ant 7	Hotspot	39	2441	15.69	17.5	1.517	76.35	1.091	0.02	0.088	0.146
	Bluetooth	1Mbps	Bottom Side	10mm	Ant 7	Hotspot	39	2441	15.69	17.5	1.517	76.35	1.091	-0.02	0.002	0.003
	Bluetooth	1Mbps	Right Side	10mm	Ant 7	WIFI only Non DBS BT MIMO	39	2441	14.68	16.5	1.521	76.35	1.091	0.01	0.222	0.368
	Bluetooth	1Mbps	Front	10mm	Ant 7	Non DBS	39	2441	12.69	14.5	1.517	76.35	1.091	0.01	0.096	0.159
	Bluetooth	1Mbps	Back	10mm	Ant 7	Non DBS	39	2441	12.69	14.5	1.517	76.35	1.091	0.03	0.098	0.162
	Bluetooth	1Mbps	Left Side	10mm	Ant 7	Non DBS	39	2441	12.69	14.5	1.517	76.35	1.091	0.02	0.001	0.002
	Bluetooth	1Mbps	Right Side	10mm	Ant 7	Non DBS	39	2441	12.69	14.5	1.517	76.35	1.091	0.01	0.159	0.263
	Bluetooth	1Mbps	Top Side	10mm	Ant 7	Non DBS	39	2441	12.69	14.5	1.517	76.35	1.091	0.03	0.044	0.073
	Bluetooth	1Mbps	Bottom Side	10mm	Ant 7	Non DBS	39	2441	12.69	14.5	1.517	76.35	1.091	0.02	0.001	0.002
	Bluetooth	LE 125kbps	Front	10mm	Ant 7	Non DBS BT MIMO	19	2440	7.75	9.5	1.496	82.49	1.010	0.02	0.047	0.071
	Bluetooth	LE 125kbps	Back	10mm	Ant 7	Non DBS BT MIMO	19	2440	7.75	9.5	1.496	82.49	1.010	0.03	0.048	0.073
	Bluetooth	LE 125kbps	Left Side	10mm	Ant 7	Non DBS BT MIMO	19	2440	7.75	9.5	1.496	82.49	1.010	0.01	0.001	0.002
	Bluetooth	LE 125kbps	Right Side	10mm	Ant 7	Non DBS BT MIMO	19	2440	7.75	9.5	1.496	82.49	1.010	0.02	0.080	0.121
	Bluetooth	LE 125kbps	Top Side	10mm	Ant 7	Non DBS BT MIMO	19	2440	7.75	9.5	1.496	82.49	1.010	0.01	0.022	0.033
	Bluetooth	LE 125kbps	Bottom Side	10mm	Ant 7	Non DBS BT MIMO	19	2440	7.75	9.5	1.496	82.49	1.010	0.02	0.001	0.002



16.3 Body Worn Accessory SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 4 Tx slots	Front	5mm	Ant 0	ECI 4	Main PA	189	836.4	26.38	27.50	1.294	-0.12	0.556	0.719
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI 4	Main PA	189	836.4	26.38	27.50	1.294	0.05	0.600	0.776
	GSM850	GPRS 4 Tx slots	Front	5mm	Ant 1	ECI 4	Main PA	189	836.4	24.52	25.50	1.253	0.14	0.697	0.873
	GSM850	GPRS 4 Tx slots	Front	5mm	Ant 1	ECI 4	Main PA	128	824.2	24.51	25.50	1.256	0.05	0.560	0.703
	GSM850	GPRS 4 Tx slots	Front	5mm	Ant 1	ECI 4	Main PA	251	848.8	24.45	25.50	1.274	-0.15	0.752	0.958
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	ECI 4	Main PA	189	836.4	24.52	25.50	1.253	0.11	0.786	0.985
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	ECI 4	Main PA	128	824.2	24.51	25.50	1.256	0.02	0.643	0.808
50	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	ECI 4	Main PA	251	848.8	24.45	25.50	1.274	-0.09	0.841	1.071
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 2	ECI 3	Main PA	661	1880	23.26	24.00	1.186	0.19	0.589	0.699
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 2	ECI 3	Main PA	661	1880	23.26	24.00	1.186	0.05	0.751	0.891
51	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 2	ECI 3	Main PA	512	1850.2	23.16	24.00	1.213	0.12	0.776	0.941
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 2	ECI 3	Main PA	810	1909.8	23.18	24.00	1.208	-0.16	0.728	0.879
	GSM1900	GPRS 4 Tx slots	Front	10mm	Ant 2	ECI 4	Main PA	661	1880	23.63	24.50	1.222	0.02	0.260	0.318
	GSM1900	GPRS 4 Tx slots	Back	10mm	Ant 2	ECI 4	Main PA	661	1880	23.63	24.50	1.222	0.01	0.382	0.467
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 3	ECI 3	Main PA	661	1880	22.23	22.50	1.064	0.10	0.484	0.515
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 3	ECI 3	Main PA	661	1880	22.23	22.50	1.064	0.12	0.642	0.683
	GSM1900	GPRS 4 Tx slots	Front	10mm	Ant 3	ECI 4	Main PA	661	1880	24.59	25.00	1.099	0.02	0.304	0.334
	GSM1900	GPRS 4 Tx slots	Back	10mm	Ant 3	ECI 4	Main PA	661	1880	24.59	25.00	1.099	0.01	0.397	0.436

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 2	ECI 3	Main PA	9400	1880	23.76	25.00	1.33	0.03	0.439	0.584
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	ECI 3	Main PA	9400	1880	23.76	25.00	1.33	-0.16	0.620	0.825
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	ECI 3	Main PA	9262	1852.4	23.75	25.00	1.334	0.07	0.532	0.710
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	ECI 3	Main PA	9538	1907.6	23.75	25.00	1.334	0.11	0.699	0.932
	WCDMA II	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 4	Main PA	9400	1880	23.76	25.00	1.33	0.01	0.185	0.246
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 4	Main PA	9400	1880	23.76	25.00	1.33	0.02	0.242	0.322
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 3	ECI 3	Main PA	9400	1880	17.26	19.00	1.493	-0.12	0.549	0.820
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 3	ECI 3	Main PA	9262	1852.4	17.17	19.00	1.524	-0.12	0.573	0.873
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 3	ECI 3	Main PA	9538	1907.6	17.19	19.00	1.517	-0.17	0.403	0.611
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 3	ECI 3	Main PA	9400	1880	17.26	19.00	1.493	-0.18	0.682	1.018
52	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 3	ECI 3	Main PA	9262	1852.4	17.17	19.00	1.524	0.03	0.711	1.084
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 3	ECI 3	Main PA	9538	1907.6	17.19	19.00	1.517	0.03	0.492	0.746
	WCDMA II	RMC 12.2Kbps	Front	10mm	Ant 3	ECI 4	Main PA	9400	1880	23.90	25.50	1.445	0.02	0.746	1.078
	WCDMA II	RMC 12.2Kbps	Front	10mm	Ant 3	ECI 4	Main PA	9262	1852.4	23.88	25.50	1.452	0.03	0.705	1.024
	WCDMA II	RMC 12.2Kbps	Front	10mm	Ant 3	ECI 4	Main PA	9538	1907.6	23.89	25.50	1.449	0.01	0.499	0.723
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 3	ECI 4	Main PA	9400	1880	23.90	25.50	1.445	0.02	0.706	1.020
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 3	ECI 4	Main PA	9262	1852.4	23.88	25.50	1.452	0.03	0.698	1.013
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 3	ECI 4	Main PA	9538	1907.6	23.89	25.50	1.449	0.01	0.695	1.007
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 2	ECI 3	Main PA	1413	1732.6	19.41	20.50	1.285	-0.17	0.489	0.628
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	ECI 3	Main PA	1413	1732.6	19.41	20.50	1.285	0.12	0.645	0.829
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	ECI 3	Main PA	1312	1712.4	19.35	20.50	1.303	0.17	0.616	0.803
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	ECI 3	Main PA	1513	1752.6	19.32	20.50	1.312	0.19	0.676	0.887
	WCDMA IV	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 4	Main PA	1413	1732.6	23.96	25.00	1.271	0.03	0.636	0.808
	WCDMA IV	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 4	Main PA	1312	1712.4	23.94	25.00	1.276	0.05	0.615	0.785
	WCDMA IV	RMC 12.2Kbps	Front	10mm	Ant 2	ECI 4	Main PA	1513	1752.6	23.90	25.00	1.288	0.05	0.692	0.891
	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 4	Main PA	1413	1732.6	23.96	25.00	1.271	0.01	0.803	1.021
53	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 4	Main PA	1312	1712.4	23.94	25.00	1.276	0.02	0.815	1.040
	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 2	ECI 4	Main PA	1513	1752.6	23.90	25.00	1.288	0.03	0.806	1.038
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 3	ECI 3	Main PA	1413	1732.6	23.69	25.50	1.517	0.01	0.158	0.240
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 3	ECI 3	Main PA	1413	1732.6	23.69	25.50	1.517	0.02	0.237	0.360
	WCDMA IV	RMC 12.2Kbps	Front	10mm	Ant 3	ECI 4	Main PA	1413	1732.6	23.69	25.50	1.517	0.01	0.052	0.079
	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 3	ECI 4	Main PA	1413	1732.6	23.69	25.50	1.517	0.02	0.072	0.109
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 4	Main PA	4182	836.4	23.52	25.00	1.406	0.05	0.658	0.925
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 4	Main PA	4132	826.4	23.50	25.00	1.413	-0.14	0.627	0.886
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 4	Main PA	4233	846.6	23.51	25.00	1.409	0.09	0.639	0.900
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 4	Main PA	4182	836.4	23.52	25.00	1.406	0.19	0.735	1.033
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 4	Main PA	4132	826.4	23.50	25.00	1.413	0.01	0.722	1.020
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 4	Main PA	4233	846.6	23.51	25.00	1.409	-0.08	0.702	0.989
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 4	Main PA	4182	836.4	19.69	21.00	1.352	-0.05	0.641	0.867
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 4	Main PA	4132	826.4	19.68	21.00	1.355	-0.13	0.547	0.741



FCC SAR Test Report

Report No. : FA5N1302

	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 4	Main PA	4233	846.6	19.65	21.00	1.365	-0.06	0.697	0.951
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 4	Main PA	4182	836.4	19.69	21.00	1.352	-0.02	0.759	1.026
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 4	Main PA	4132	826.4	19.68	21.00	1.355	0.02	0.660	0.894
54	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 4	Main PA	4233	846.6	19.65	21.00	1.365	-0.09	0.801	1.093

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	code(NO.)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 2	ECI 3	Main PA	18900	1880	-	20.20	20.50	1.072			-0.04	0.580	0.622
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 2	ECI 3	Main PA	18900	1880	-	20.05	20.50	1.109			-0.17	0.467	0.518
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	18900	1880	-	20.20	20.50	1.072			-0.02	0.817	0.876
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	18700	1860	-	20.12	20.50	1.091			0.08	0.554	0.604
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	19100	1900	-	20.15	20.50	1.084			0.18	0.744	0.806
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 2	ECI 3	Main PA	18900	1880	-	20.05	20.50	1.109			0.06	0.677	0.751
	LTE Band 2	20M	QPSK	100	0	Back	5mm	Ant 2	ECI 3	Main PA	18900	1880	-	19.94	20.50	1.138			0.13	0.660	0.751
	LTE Band 2	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 4	Main PA	18900	1880	-	23.19	24.00	1.205			0.08	0.501	0.604
	LTE Band 2	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 4	Main PA	18900	1880	-	23.18	24.00	1.208			0.18	0.412	0.498
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4	Main PA	18900	1880	-	23.19	24.00	1.205			0.06	0.730	0.880
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4	Main PA	18700	1860	-	23.15	24.00	1.216			0.01	0.428	0.520
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4	Main PA	19100	1900	-	23.16	24.00	1.213			0.02	0.665	0.807
	LTE Band 2	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 4	Main PA	18900	1880	-	23.18	24.00	1.208			0.05	0.592	0.715
	LTE Band 2	20M	QPSK	100	0	Back	10mm	Ant 2	ECI 4	Main PA	18700	1860	-	23.09	24.00	1.233			0.03	0.479	0.591
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 3	ECI 3	Main PA	18900	1880	-	20.68	22.00	1.355			-0.05	0.533	0.722
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 3	ECI 3	Main PA	18900	1880	-	20.57	22.00	1.39			-0.02	0.430	0.598
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	18900	1880	-	20.68	22.00	1.355			0.11	0.670	0.908
55	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	18700	1860	-	20.67	22.00	1.358			0.03	0.805	1.093
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	19100	1900	-	20.65	22.00	1.365			-0.13	0.508	0.693
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 3	ECI 3	Main PA	18900	1880	-	20.57	22.00	1.39			0.06	0.541	0.752
	LTE Band 2	20M	QPSK	100	0	Back	5mm	Ant 3	ECI 3	Main PA	18900	1880	-	20.53	22.00	1.403			-0.15	0.534	0.749
	LTE Band 2	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 4	Main PA	18900	1880	-	24.05	25.50	1.396			-0.17	0.264	0.369
	LTE Band 2	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 4	Main PA	18900	1880	-	23.15	24.50	1.365			-0.07	0.214	0.292
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 4	Main PA	18900	1880	-	24.05	25.50	1.396			-0.04	0.366	0.511
	LTE Band 2	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 4	Main PA	18900	1880	-	23.15	24.50	1.365			-0.17	0.293	0.400
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 4	ECI 4	Main PA	18900	1880	-	17.98	19.00	1.265			0.03	0.420	0.531
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 4	ECI 4	Main PA	18900	1880	-	17.95	19.00	1.274			0.09	0.358	0.456
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 4	ECI 4	Main PA	18900	1880	-	17.98	19.00	1.265			-0.05	0.380	0.481
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 4	ECI 4	Main PA	18900	1880	-	17.95	19.00	1.274			-0.04	0.300	0.382
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 5	ECI 4	Main PA	18900	1880	-	21.13	22.50	1.371			-0.02	0.651	0.893
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 5	ECI 4	Main PA	18700	1860	-	21.04	22.50	1.4			0.01	0.527	0.738
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 5	ECI 4	Main PA	19100	1900	-	21.05	22.50	1.396			0.08	0.532	0.743
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 5	ECI 4	Main PA	18900	1880	-	21.10	22.50	1.38			-0.17	0.573	0.791
	LTE Band 2	20M	QPSK	100	0	Front	5mm	Ant 5	ECI 4	Main PA	18900	1880	-	20.95	22.50	1.429			-0.05	0.522	0.746
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	18900	1880	-	21.13	22.50	1.371			-0.03	0.780	1.069
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	18700	1860	-	21.04	22.50	1.4			-0.18	0.697	0.976
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	19100	1900	-	21.05	22.50	1.396			-0.13	0.677	0.945
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	Main PA	18900	1880	-	21.10	22.50	1.38			-0.09	0.625	0.862
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	Main PA	18700	1860	-	21.09	22.50	1.384			-0.05	0.579	0.801
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	Main PA	19100	1900	-	21.08	22.50	1.387			-0.01	0.573	0.795
	LTE Band 2	20M	QPSK	100	0	Back	5mm	Ant 5	ECI 4	Main PA	18900	1880	-	20.95	22.50	1.429			0.08	0.620	0.886
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 2	ECI 3	Main PA	21100	2535	-	15.68	16.50	1.208			-0.08	0.240	0.290
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 2	ECI 3	Main PA	21100	2535	-	15.63	16.50	1.222			0.15	0.193	0.236
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	21100	2535	-	15.68	16.50	1.208			0.02	0.405	0.489
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	ECI 3	Main PA	21100	2535	-	15.63	16.50	1.222			-0.03	0.306	0.374
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 4	Main PA	21100	2535	-	21.85	22.50	1.161			0.05	0.425	0.493
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 4	Main PA	21100	2535	-	21.81	22.50	1.172			0.03	0.339	0.397
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4	Main PA	21100	2535	-	21.85	22.50	1.161			0.02	0.676	0.785
	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 4	Main PA	21100	2535	-	21.81	22.50	1.172			0.03	0.546	0.640
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4-1	Other PA	21100	2535	-	21.76	23.00	1.33			0.01	0.581	0.773
	LTE Band 7	20M	QPSK	1	99	Back	10mm	Ant 2	ECI 4	Main PA	21100+21298	2535+2554.8	-	21.75	22.50	1.189			0.01	0.509	0.605
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 3	ECI 3	Main PA	21100	2535	-	18.83	20.00	1.309			0.06	0.518	0.678
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 3	ECI 3	Main PA	21100	2535	-	18.81	20.00	1.315			-0.13	0.418	0.550
56	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	21100	2535	-	18.83	20.00	1.309			-0.02	0.806	1.055
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	20850	2510	-	18.69	20.00	1.352			0.01	0.732	0.990
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	21350	2560	-	18.80	20.00	1.318			0.02	0.698	0.920
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 3	ECI 3	Main PA	21100	2535	-	18.81	20.00	1.315			-0.01	0.523	0.688
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 3	ECI 3	Main PA	21100	2535	-	18.70	20.00	1.349			0.05	0.602	0.812
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3-1	Other PA	21100	2535	-	18.76	20.00	1.33			-0.02	0.732	0.974
	LTE Band 7	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 4	Main PA	21100	2535	-	24.09	25.50	1.384			0.02	0.421	0.583
	LTE Band 7	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 4	Main PA	21100	2535	-	23.22	24.50	1.343			0.03	0.336	0.451
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 4	Main PA	21100	2535	-	24.09	25.50	1.384			0.01	0.524	0.725



FCC SAR Test Report

Report No. : FA5N1302

	LTE Band 7	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 4	Main PA	21100	2535	-	23.22	24.50	1.343			0.02	0.417	0.560
	LTE Band 7	20M	QPSK	1	99	Back	5mm	Ant 3	ECI 3	Main PA	21100+ 21298	2535+ 2554.8	-	18.75	20.00	1.334			0.01	0.705	0.940
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 4	ECI 4	Main PA	21100	2535	-	17.99	19.20	1.321			0.14	0.443	0.585
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 4	ECI 4	Main PA	21100	2535	-	17.95	19.20	1.334			0.12	0.370	0.494
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 4	ECI 4	Main PA	21100	2535	-	17.99	19.20	1.321			-0.05	0.656	0.867
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 4	ECI 4	Main PA	20850	2510	-	17.85	19.20	1.365			0.02	0.605	0.826
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 4	ECI 4	Main PA	21350	2560	-	17.98	19.20	1.324			0.01	0.598	0.792
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 4	ECI 4	Main PA	21100	2535	-	17.95	19.20	1.334			-0.04	0.542	0.723
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 4	ECI 4	Main PA	21100	2535	-	17.87	19.20	1.358			0.05	0.532	0.722
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 4	ECI 4-1	Other PA	21100	2535	-	17.94	18.70	1.191			-0.08	0.591	0.704
	LTE Band 7	20M	QPSK	1	99	Back	5mm	Ant 4	ECI 4	Main PA	21100+ 21298	2535+ 2554.8	-	17.85	19.20	1.365			0.01	0.605	0.826
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 5	ECI 4	Main PA	21100	2535	-	20.85	22.00	1.303			0.04	0.563	0.734
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 5	ECI 4	Main PA	21100	2535	-	20.81	22.00	1.315			0.16	0.438	0.576
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	21100	2535	-	20.85	22.00	1.303			0.09	0.808	1.053
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	20850	2510	-	20.77	22.00	1.327			0.08	0.791	1.050
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	21350	2560	-	20.84	22.00	1.306			-0.02	0.739	0.965
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	Main PA	21100	2535	-	20.81	22.00	1.315			-0.07	0.676	0.889
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	Main PA	20850	2510	-	20.78	22.00	1.324			-0.02	0.642	0.850
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	Main PA	21350	2560	-	20.79	22.00	1.321			0.09	0.648	0.856
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4-1	Other PA	21100	2535	-	20.77	22.00	1.327			0.01	0.789	1.047
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 5	ECI 4	Main PA	21100	2535	-	20.73	22.00	1.34			0.09	0.670	0.898
	LTE Band 7	20M	QPSK	1	99	Back	5mm	Ant 5	ECI 4	Main PA	21100+ 21298	2535+ 2554.8	-	20.79	22.00	1.321			0.01	0.745	0.984
57	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 0	ECI 4	Main PA	26865	831.5	code 78	24.46	25.50	1.271			-0.13	0.830	1.055
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 0	ECI 4	Main PA	26865	831.5	code 78	23.49	24.50	1.262			-0.02	0.576	0.727
	LTE Band 26	15M	QPSK	75	0	Front	5mm	Ant 0	ECI 4	Main PA	26865	831.5	code 78	23.40	24.50	1.288			-0.08	0.694	0.894
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 0	ECI 4	Main PA	26865	831.5	code 78	24.46	25.50	1.271			-0.02	0.674	0.857
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 0	ECI 4	Main PA	26865	831.5	code 78	23.49	24.50	1.262			0.05	0.680	0.858
	LTE Band 26	15M	QPSK	75	0	Back	5mm	Ant 0	ECI 4	Main PA	26865	831.5	code 78	23.40	24.50	1.288			0.04	0.680	0.876
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 0	ECI 4-1	Other PA	26865	831.5	code 78	24.10	25.00	1.23			0.03	0.715	0.879
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 0	ECI 4	Main PA	26865	831.5	code 34	24.46	25.50	1.271			0.02	0.695	0.883
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 1	ECI 4	Main PA	26865	831.5	code 1	21.49	22.50	1.262			0.03	0.640	0.808
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 1	ECI 4	Main PA	26865	831.5	code 1	21.45	22.50	1.274			-0.10	0.540	0.688
	LTE Band 26	15M	QPSK	75	0	Front	5mm	Ant 1	ECI 4	Main PA	26865	831.5	code 1	21.40	22.50	1.288			-0.11	0.575	0.741
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	ECI 4	Main PA	26865	831.5	code 1	21.49	22.50	1.262			-0.08	0.665	0.839
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 1	ECI 4	Main PA	26865	831.5	code 1	21.45	22.50	1.274			0.03	0.630	0.803
	LTE Band 26	15M	QPSK	75	0	Back	5mm	Ant 1	ECI 4	Main PA	26865	831.5	code 1	21.40	22.50	1.288			0.10	0.605	0.779
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	ECI 3-1	Other PA	26865	831.5	code 1	21.39	22.50	1.291			-0.03	0.605	0.781
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	ECI 4	Main PA	26865	831.5	code 0	21.49	22.50	1.262			0.01	0.601	0.758
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	ECI 3	Main PA	132322	1745	code : B0	18.63	19.50	1.222			-0.16	0.423	0.517
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 2	ECI 3	Main PA	132322	1745	code : B0	18.59	19.50	1.233			-0.16	0.331	0.408
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	132322	1745	code : B0	18.63	19.50	1.222			0.02	0.579	0.708
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	ECI 3	Main PA	132322	1745	code : B0	18.59	19.50	1.233			0.18	0.455	0.561
	LTE Band 66	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 4	Main PA	132322	1745	code : B0	22.66	23.50	1.213			0.14	0.490	0.594
	LTE Band 66	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 4	Main PA	132322	1745	code : B0	22.64	23.50	1.219			-0.16	0.381	0.464
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4	Main PA	132322	1745	code : B0	22.66	23.50	1.213			0.09	0.659	0.799
	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 4	Main PA	132322	1745	code : B0	22.64	23.50	1.219			0.12	0.528	0.644
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4	Main PA	132322	1745	-	22.66	23.50	1.213			0.03	0.601	0.729
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4	Main PA	132322	1745	-	22.66	23.50	1.213			0.02	0.598	0.725
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 3	ECI 3	Main PA	132322	1745	-	18.35	19.70	1.365			0.00	0.509	0.695
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 3	ECI 3	Main PA	132322	1745	-	18.33	19.70	1.371			0.16	0.404	0.554
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	132322	1745	-	18.35	19.70	1.365			-0.19	0.686	0.936
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	132072	1720	-	18.25	19.70	1.396			-0.08	0.673	0.940
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	132572	1770	-	18.21	19.70	1.409			0.15	0.651	0.917
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 3	ECI 3	Main PA	132322	1745	-	18.33	19.70	1.371			-0.06	0.541	0.742
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 3	ECI 3	Main PA	132322	1745	-	18.23	19.70	1.403			-0.04	0.543	0.762
	LTE Band 66	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 4	Main PA	132322	1745	-	22.63	23.70	1.279			0.11	0.495	0.633
	LTE Band 66	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 4	Main PA	132322	1745	-	22.61	23.70	1.285			0.10	0.386	0.496
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 4	Main PA	132322	1745	-	22.63	23.70	1.279			-0.12	0.732	0.936
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 4	Main PA	132072	1720	-	22.61	23.70	1.285			0.02	0.663	0.852
58	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 4	Main PA	132572	1770	-	22.60	23.70	1.288			0.01	0.751	0.967
	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 4	Main PA	132322	1745	-	22.61	23.70	1.285			0.09	0.572	0.735
	LTE Band 66	20M	QPSK	100	0	Back	10mm	Ant 3	ECI 4	Main PA	132322	1745	-	22.51	23.70	1.315			0.02	0.575	0.756
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 4	ECI 4	Main PA	132322	1745	-	19.18	20.20	1.265			0.10	0.537	0.679
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 4	ECI 4	Main PA	132322	1745	-	19.15	20.20	1.274			-0.09	0.421	0.536
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 4	ECI 4	Main PA	132322	1745	-	19.18	20.20	1.265			-0.18	0.672	0.850
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 4	ECI 4	Main PA	132072	1720	-	19.17	20.20	1.268			0.06	0.682	0.865
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 4	ECI 4	Main PA	132572	1770	-	19.02	20.20	1.312			0.09	0.648	0.850
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 4	ECI 4	Main PA	132322	1745	-	19.15	20.20	1.274			-0.19	0.505	0.643
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 4	ECI 4	Main PA	132322	1745	-	19.06	20.20	1.3			0.02	0.463	0.602
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 5	ECI												



FCC SAR Test Report

Report No. : FA5N1302

	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 5	ECI 4	Main PA	132322	1745	-	19.21	20.50	1.346			0.03	0.419	0.564
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	132322	1745	-	19.24	20.50	1.337			-0.10	0.496	0.663
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	Main PA	132322	1745	-	19.21	20.50	1.346			-0.09	0.409	0.551
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	ECI 3	Main PA	40620	2593	-	16.55	18.00	1.396	62.9	1.006	-0.14	0.238	0.334
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 2	ECI 3	Main PA	40620	2593	-	16.43	18.00	1.435	62.9	1.006	-0.03	0.189	0.273
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	40620	2593	-	16.55	18.00	1.396	62.9	1.006	0.03	0.401	0.563
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	ECI 3	Main PA	40620	2593	-	16.43	18.00	1.435	62.9	1.006	-0.06	0.318	0.459
	LTE Band 41	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 4	Main PA	40620	2593	-	23.05	23.50	1.109	62.9	1.006	0.02	0.341	0.380
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 4	Main PA	40620	2593	-	23.03	23.50	1.114	62.9	1.006	0.03	0.273	0.306
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4	Main PA	40620	2593	-	23.05	23.50	1.109	62.9	1.006	0.02	0.533	0.595
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 4	Main PA	40620	2593	-	23.03	23.50	1.114	62.9	1.006	0.03	0.425	0.476
	LTE Band 41	20M	QPSK	1	99	Back	10mm	Ant 2	ECI 4	Main PA	40620+ 40818	2593+ 2612.8	-	22.89	23.50	1.151	62.9	1.006	0.01	0.501	0.580
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4-1	Other PA	40620	2593	-	22.93	24.00	1.279	62.9	1.006	0.02	0.405	0.521
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 3	ECI 3	Main PA	40620	2593	-	21.33	22.50	1.309	62.9	1.006	0.11	0.381	0.502
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 3	ECI 3	Main PA	40620	2593	-	21.31	22.50	1.315	62.9	1.006	0.05	0.307	0.406
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	40620	2593	-	21.33	22.50	1.309	62.9	1.006	0.02	0.481	0.633
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	39750	2506	-	21.18	22.50	1.355	62.9	1.006	-0.07	0.590	0.804
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	40185	2549.5	-	21.13	22.50	1.371	62.9	1.006	-0.03	0.458	0.632
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	41055	2636.5	-	21.22	22.50	1.343	62.9	1.006	0.04	0.533	0.720
58	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	41490	2680	-	21.23	22.50	1.34	62.9	1.006	0.01	0.627	0.845
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 3	ECI 3	Main PA	40620	2593	-	21.31	22.50	1.315	62.9	1.006	0.10	0.387	0.512
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 3	ECI 3	Main PA	40620	2593	-	21.14	22.50	1.368	62.9	1.006	-0.13	0.444	0.611
	LTE Band 41	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 4	Main PA	40620	2593	-	24.27	25.50	1.327	62.9	1.006	0.02	0.248	0.331
	LTE Band 41	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 4	Main PA	40620	2593	-	23.29	24.50	1.321	62.9	1.006	0.03	0.194	0.258
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 4	Main PA	40620	2593	-	24.27	25.50	1.327	62.9	1.006	0.02	0.302	0.403
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 4	Main PA	40620	2593	-	23.29	24.50	1.321	62.9	1.006	0.01	0.238	0.316
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3-1	Other PA	41490	2680	-	21.05	22.50	1.396	62.9	1.006	-0.02	0.600	0.843
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 3	ECI 3	Main PA	41490+ 41292	2680+ 2660.2	-	21.11	22.50	1.377	62.9	1.006	0.02	0.598	0.828
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 4	ECI 4	Main PA	40620	2593	-	18.94	19.70	1.191	62.9	1.006	-0.18	0.308	0.369
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 4	ECI 4	Main PA	40620	2593	-	18.91	19.70	1.199	62.9	1.006	0.16	0.246	0.297
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 4	ECI 4	Main PA	40620	2593	-	18.94	19.70	1.191	62.9	1.006	0.03	0.482	0.578
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 4	ECI 4	Main PA	40620	2593	-	18.91	19.70	1.199	62.9	1.006	-0.05	0.380	0.458
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 4	ECI 4-1	Other PA	40620	2593	-	18.93	19.20	1.064	62.9	1.006	-0.05	0.384	0.411
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 4	ECI 4	Main PA	40620+ 40818	2593+ 2612.8	-	18.89	19.70	1.205	62.9	1.006	0.01	0.305	0.370
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 5	ECI 4	Main PA	40620	2593	-	21.15	22.00	1.216	62.9	1.006	0.17	0.329	0.402
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 5	ECI 4	Main PA	40620	2593	-	21.13	22.00	1.222	62.9	1.006	-0.05	0.269	0.331
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	40620	2593	-	21.15	22.00	1.216	62.9	1.006	-0.09	0.585	0.716
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	39750	2506	-	21.06	22.00	1.242	62.9	1.006	0.17	0.545	0.681
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	40185	2549.5	-	21.13	22.00	1.222	62.9	1.006	0.15	0.558	0.686
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	41055	2636.5	-	21.05	22.00	1.245	62.9	1.006	0.01	0.651	0.815
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4	Main PA	41490	2680	-	21.05	22.00	1.245	62.9	1.006	-0.06	0.487	0.610
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 5	ECI 4	Main PA	40620	2593	-	21.13	22.00	1.222	62.9	1.006	-0.18	0.478	0.588
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 5	ECI 4	Main PA	40185	2549.5	-	21.02	22.00	1.253	62.9	1.006	0.03	0.465	0.586
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 5	ECI 4-1	Other PA	41055	2636.5	-	20.92	22.00	1.282	62.9	1.006	-0.06	0.548	0.707
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 5	ECI 4	Main PA	41055+ 41253	2636.5+ 2656.3	-	20.91	22.00	1.285	62.9	1.006	0.01	0.501	0.648
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 1	ECI 4	Main PA	42590	3500	-	16.98	18.00	1.265	62.9	1.006	0.03	0.252	0.321
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 1	ECI 4	Main PA	42590	3500	-	16.95	18.00	1.274	62.9	1.006	-0.04	0.204	0.261
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 1	ECI 4	Main PA	42590	3500	-	16.98	18.00	1.265	62.9	1.006	-0.05	0.306	0.389
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 1	ECI 4	Main PA	42590	3500	-	16.95	18.00	1.274	62.9	1.006	0.18	0.250	0.320
	LTE Band 42	20M	QPSK	1	99	Back	5mm	Ant 1	ECI 4	Main PA	42590+ 42788	3500+ 3519.8	-	16.63	18.00	1.371	62.9	1.006	0.05	0.205	0.283
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 2	ECI 3	Main PA	42590	3500	-	19.69	20.50	1.205	62.9	1.006	-0.05	0.453	0.549
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 2	ECI 3	Main PA	42590	3500	-	19.65	20.50	1.216	62.9	1.006	-0.00	0.365	0.447
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	42590	3500	-	19.69	20.50	1.205	62.9	1.006	0.04	0.727	0.881
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	42190	3460	-	19.61	20.50	1.227	62.9	1.006	-0.04	0.729	0.900
60	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	42990	3540	-	19.62	20.50	1.225	62.9	1.006	0.01	0.735	0.906
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 2	ECI 3	Main PA	42590	3500	-	19.65	20.50	1.216	62.9	1.006	-0.09	0.594	0.727
	LTE Band 42	20M	QPSK	100	0	Back	5mm	Ant 2	ECI 3	Main PA	42590	3500	-	19.56	20.50	1.242	62.9	1.006	0.12	0.594	0.742
	LTE Band 42	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 4	Main PA	42590	3500	-	23.65	24.50	1.216	62.9	1.006	0.12	0.409	0.500
	LTE Band 42	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 4	Main PA	42590	3500	-	23.64	24.50	1.219	62.9	1.006	0.18	0.330	0.405
	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4	Main PA	42590	3500	-	23.65	24.50	1.216	62.9	1.006	-0.00	0.637	0.779
	LTE Band 42	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 4	Main PA	42590	3500	-	23.64	24.50	1.219	62.9	1.006	-0.14	0.583	0.715
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	42990+ 42792	3540+ 3520.2	-	19.51	20.50	1.256	62.9	1.006	0.02	0.713	0.901
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 2	ECI 3	Main PA	42190	3460	-	19.61	20.50	1.227	62.9	1.006	0.02	0.504	0.622
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 2	ECI 3	Main PA	42990	3540	-	19.63	20.50	1.222	62.9	1.006	0.03	0.505	0.621
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 3	ECI 3	Main PA	42590	3500	-	23.89	25.50	1.449	62.9	1.006	-0.08	0.183	0.267
	LTE Band 42	20M	QPSK	50	0																



FCC SAR Test Report

Report No. : FA5N1302

	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 4	Main PA	42590	3500	-	23.89	25.50	1.449	62.9	1.006	0.01	0.130	0.190
	LTE Band 42	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 4	Main PA	42590	3500	-	22.95	24.50	1.429	62.9	1.006	0.03	0.109	0.157
	LTE Band 42	20M	QPSK	1	99	Back	5mm	Ant 3	ECI 3	Main PA	42590+ 42788	3500+ 3519.8	-	23.68	25.50	1.521	62.9	1.006	0.01	0.339	0.519
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 6	ECI 3	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	0.02	0.089	0.111
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 6	ECI 3	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	0.03	0.094	0.115
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 6	ECI 3	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	0.01	0.184	0.230
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 6	ECI 3	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	0.05	0.149	0.182
	LTE Band 42	20M	QPSK	1	0	Front	10mm	Ant 6	ECI 4	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	0.02	0.047	0.059
	LTE Band 42	20M	QPSK	50	0	Front	10mm	Ant 6	ECI 4	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	0.01	0.040	0.049
	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 6	ECI 4	Main PA	42590	3500	-	22.55	23.50	1.245	62.9	1.006	0.03	0.060	0.075
	LTE Band 42	20M	QPSK	50	0	Back	10mm	Ant 6	ECI 4	Main PA	42590	3500	-	21.65	22.50	1.216	62.9	1.006	0.02	0.047	0.057
	LTE Band 42	20M	QPSK	1	99	Back	5mm	Ant 6	ECI 3	Main PA	42590+ 42788	3500+ 3519.8	-	22.45	23.50	1.274	62.9	1.006	0.01	0.101	0.129
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 1	ECI 4	Main PA	55990	3625	-	18.48	19.50	1.265	62.9	1.006	0.04	0.344	0.438
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 1	ECI 4	Main PA	55990	3625	-	18.45	19.50	1.274	62.9	1.006	0.03	0.267	0.342
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 1	ECI 4	Main PA	55990	3625	-	18.48	19.50	1.265	62.9	1.006	0.15	0.462	0.588
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 1	ECI 4	Main PA	55990	3625	-	18.45	19.50	1.274	62.9	1.006	-0.09	0.358	0.459
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 2	ECI 3	Main PA	55990	3625	-	19.35	20.00	1.161	62.9	1.006	0.17	0.319	0.373
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 2	ECI 3	Main PA	55990	3625	-	19.31	20.00	1.172	62.9	1.006	-0.11	0.257	0.303
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	55990	3625	-	19.35	20.00	1.161	62.9	1.006	-0.06	0.537	0.627
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	55340	3560	-	19.17	20.00	1.211	62.9	1.006	0.01	0.604	0.736
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	55830	3609	-	19.31	20.00	1.172	62.9	1.006	-0.01	0.557	0.657
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	56150	3641	-	19.24	20.00	1.191	62.9	1.006	0.02	0.507	0.607
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 2	ECI 3	Main PA	56640	3690	-	19.25	20.00	1.189	62.9	1.006	0.18	0.466	0.557
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 2	ECI 3	Main PA	55990	3625	-	19.31	20.00	1.172	62.9	1.006	-0.13	0.430	0.507
	LTE Band 48	20M	QPSK	1	0	Front	10mm	Ant 2	ECI 4	Main PA	55990	3625	-	23.05	24.00	1.245	62.9	1.006	-0.13	0.067	0.084
	LTE Band 48	20M	QPSK	50	0	Front	10mm	Ant 2	ECI 4	Main PA	55990	3625	-	22.15	23.00	1.216	62.9	1.006	-0.12	0.085	0.104
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 2	ECI 4	Main PA	55990	3625	-	23.05	24.00	1.245	62.9	1.006	-0.07	0.256	0.321
	LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 2	ECI 4	Main PA	55990	3625	-	22.15	23.00	1.216	62.9	1.006	-0.18	0.251	0.307
	LTE Band 48	20M	QPSK	100	0	Back	5mm	Ant 2	ECI 3	Main PA	55990	3625	-	19.15	20.00	1.216	62.9	1.006	0.05	0.475	0.581
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 3	ECI 3	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	-0.17	0.163	0.231
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 3	ECI 3	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	0.15	0.137	0.189
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	-0.16	0.556	0.786
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	55340	3560	-	22.50	24.00	1.413	62.9	1.006	-0.04	0.510	0.725
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	55830	3609	-	22.47	24.00	1.422	62.9	1.006	-0.12	0.560	0.801
61	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	56150	3641	-	22.45	24.00	1.429	62.9	1.006	0.01	0.566	0.814
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 3	ECI 3	Main PA	56640	3690	-	22.48	24.00	1.419	62.9	1.006	-0.00	0.519	0.741
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 3	ECI 3	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	-0.07	0.405	0.560
	LTE Band 48	20M	QPSK	100	0	Back	5mm	Ant 3	ECI 3	Main PA	55990	3625	-	21.53	23.00	1.403	62.9	1.006	-0.04	0.358	0.505
	LTE Band 48	20M	QPSK	1	0	Front	10mm	Ant 3	ECI 4	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	0.12	0.072	0.102
	LTE Band 48	20M	QPSK	50	0	Front	10mm	Ant 3	ECI 4	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	-0.07	0.058	0.080
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 3	ECI 4	Main PA	55990	3625	-	22.52	24.00	1.406	62.9	1.006	0.06	0.157	0.222
	LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 3	ECI 4	Main PA	55990	3625	-	21.62	23.00	1.374	62.9	1.006	0.14	0.125	0.173
	LTE Band 48	20M	QPSK	1	0	Front	5mm	Ant 6	ECI 3	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.02	0.089	0.114
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 6	ECI 3	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.03	0.070	0.088
	LTE Band 48	20M	QPSK	1	0	Back	5mm	Ant 6	ECI 3	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.01	0.104	0.133
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 6	ECI 3	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.02	0.084	0.106
	LTE Band 48	20M	QPSK	1	0	Front	10mm	Ant 6	ECI 4	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.02	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Front	10mm	Ant 6	ECI 4	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.03	0.001	0.001
	LTE Band 48	20M	QPSK	1	0	Back	10mm	Ant 6	ECI 4	Main PA	55990	3625	-	20.45	21.50	1.274	62.9	1.006	0.10	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	Back	10mm	Ant 6	ECI 4	Main PA	55990	3625	-	19.51	20.50	1.256	62.9	1.006	0.02	0.001	0.001



【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	PA Note	Ch.	Freq. (MHz)	code(No.)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 2	ECI 3	Main PA	376000	1880	-	19.68	20.50	1.208			-0.01	0.390	0.471
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 2	ECI 3	Main PA	376000	1880	-	19.65	20.50	1.216			0.12	0.438	0.533
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	376000	1880	-	19.68	20.50	1.208			0.02	0.624	0.754
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 2	ECI 3	Main PA	376000	1880	-	19.65	20.50	1.216			-0.08	0.619	0.753
	FR1 n2	20M	BPSK	1	1	Front	10mm	Ant 2	ECI 4	Main PA	376000	1880	-	23.36	24.00	1.159			-0.12	0.337	0.391
	FR1 n2	20M	BPSK	50	28	Front	10mm	Ant 2	ECI 4	Main PA	376000	1880	-	23.35	24.00	1.161			0.14	0.522	0.606
	FR1 n2	20M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	376000	1880	-	23.36	24.00	1.159			-0.17	0.657	0.761
	FR1 n2	20M	BPSK	50	28	Back	10mm	Ant 2	ECI 4	Main PA	376000	1880	-	23.35	24.00	1.161			-0.17	0.726	0.843
	FR1 n2	20M	BPSK	50	28	Back	10mm	Ant 2	ECI 4	Main PA	372000	1860	-	23.32	24.00	1.169			0.02	0.515	0.602
	FR1 n2	20M	BPSK	50	28	Back	10mm	Ant 2	ECI 4	Main PA	380000	1900	-	23.33	24.00	1.167			0.01	0.632	0.738
	FR1 n2	20M	BPSK	100	0	Back	10mm	Ant 2	ECI 4	Main PA	372000	1860	-	23.28	24.00	1.18			0.02	0.588	0.694
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	Main PA	376000	1880	-	22.21	23.50	1.346			-0.05	0.552	0.743
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 3	ECI 3	Main PA	376000	1880	-	22.20	23.50	1.349			-0.13	0.527	0.711
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	376000	1880	-	22.21	23.50	1.346			0.10	0.709	0.954
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	372000	1860	-	22.20	23.50	1.349			-0.02	0.552	0.745
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	380000	1900	-	22.18	23.50	1.355			-0.14	0.634	0.859
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 3	ECI 3	Main PA	376000	1880	-	22.20	23.50	1.349			0.08	0.537	0.724
	FR1 n2	20M	BPSK	100	0	Back	5mm	Ant 3	ECI 3	Main PA	376000	1880	-	22.13	23.50	1.371			0.11	0.640	0.877
	FR1 n2	20M	BPSK	1	1	Front	10mm	Ant 3	ECI 4	Main PA	376000	1880	-	24.07	25.50	1.39			-0.02	0.303	0.421
	FR1 n2	20M	BPSK	50	28	Front	10mm	Ant 3	ECI 4	Main PA	376000	1880	-	24.01	25.50	1.409			0.06	0.273	0.385
	FR1 n2	20M	BPSK	1	1	Back	10mm	Ant 3	ECI 4	Main PA	376000	1880	-	24.07	25.50	1.39			0.15	0.245	0.341
	FR1 n2	20M	BPSK	50	28	Back	10mm	Ant 3	ECI 4	Main PA	376000	1880	-	24.01	25.50	1.409			-0.14	0.351	0.495
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 4	ECI 4	Main PA	376000	1880	-	18.86	20.00	1.3			0.01	0.826	1.074
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 4	ECI 4	Main PA	372000	1860	-	18.83	20.00	1.309			0.02	0.777	1.017
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 4	ECI 4	Main PA	380000	1900	-	18.84	20.00	1.306			0.03	0.738	0.964
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 4	ECI 4	Main PA	376000	1880	-	18.85	20.00	1.303			-0.07	0.831	1.083
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 4	ECI 4	Main PA	372000	1860	-	18.82	20.00	1.312			0.17	0.807	1.059
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 4	ECI 4	Main PA	380000	1900	-	18.83	20.00	1.309			-0.12	0.689	0.902
	FR1 n2	20M	BPSK	100	0	Front	5mm	Ant 4	ECI 4	Main PA	380000	1900	-	18.75	20.00	1.334			0.07	0.660	0.880
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 4	ECI 4	Main PA	376000	1880	-	18.86	20.00	1.3			-0.16	0.807	1.049
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 4	ECI 4	Main PA	372000	1860	-	18.83	20.00	1.309			0.10	0.786	1.029
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 4	ECI 4	Main PA	380000	1900	-	18.84	20.00	1.306			0.12	0.777	1.015
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 4	ECI 4	Main PA	376000	1880	-	18.85	20.00	1.303			-0.09	0.738	0.962
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 4	ECI 4	Main PA	372000	1860	-	18.82	20.00	1.312			-0.08	0.709	0.930
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 4	ECI 4	Main PA	380000	1900	-	18.83	20.00	1.309			-0.06	0.728	0.953
	FR1 n2	20M	BPSK	100	0	Back	5mm	Ant 4	ECI 4	Main PA	380000	1900	-	18.75	20.00	1.334			0.06	0.723	0.964
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 5	ECI 4	Main PA	376000	1880	-	20.91	22.00	1.285			-0.14	0.620	0.797
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 5	ECI 4	Main PA	376000	1880	-	20.88	22.00	1.294			0.12	0.586	0.758
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 5	ECI 4	Main PA	376000	1880	-	20.91	22.00	1.285			0.10	0.808	1.038
62	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 5	ECI 4	Main PA	372000	1860	-	20.88	22.00	1.294			-0.10	0.842	1.090
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 5	ECI 4	Main PA	380000	1900	-	20.89	22.00	1.291			0.11	0.808	1.043
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 5	ECI 4	Main PA	376000	1880	-	20.88	22.00	1.294			-0.15	0.786	1.017
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 5	ECI 4	Main PA	372000	1860	-	20.83	22.00	1.309			-0.15	0.755	0.988
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 5	ECI 4	Main PA	380000	1900	-	20.86	22.00	1.3			-0.09	0.763	0.992
	FR1 n2	20M	BPSK	100	0	Back	5mm	Ant 5	ECI 4	Main PA	376000	1880	-	20.56	22.00	1.393			0.11	0.710	0.989
	FR1 n5	20M	BPSK	1	1	Front	5mm	Ant 0	ECI 4	Main PA	167300	836.5	Code 34	24.31	25.50	1.315			-0.05	0.695	0.914
	FR1 n5	20M	BPSK	50	28	Front	5mm	Ant 0	ECI 4	Main PA	167300	836.5	Code 34	24.30	25.50	1.318			-0.01	0.723	0.953
	FR1 n5	20M	BPSK	100	0	Front	5mm	Ant 0	ECI 4	Main PA	167300	836.5	Code 34	23.83	25.00	1.309			-0.14	0.677	0.886
	FR1 n5	20M	BPSK	1	1	Back	5mm	Ant 0	ECI 4	Main PA	167300	836.5	Code 34	24.31	25.50	1.315			-0.05	0.817	1.074
63	FR1 n5	20M	BPSK	50	28	Back	5mm	Ant 0	ECI 4	Main PA	167300	836.5	Code 34	24.30	25.50	1.318			0.01	0.827	1.090
	FR1 n5	20M	BPSK	100	0	Back	5mm	Ant 0	ECI 4	Main PA	167300	836.5	Code 34	23.83	25.00	1.309			0.11	0.723	0.946
	FR1 n5	20M	BPSK	50	28	Back	5mm	Ant 0	ECI 4	Main PA	167300	836.5	Code 78	24.30	25.50	1.318			0.02	0.652	0.859
	FR1 n5	20M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	Main PA	167300	836.5	Code 0	20.29	21.50	1.321			-0.17	0.441	0.583
	FR1 n5	20M	BPSK	50	28	Front	5mm	Ant 1	ECI 4	Main PA	167300	836.5	Code 0	20.28	21.50	1.324			-0.05	0.635	0.841
	FR1 n5	20M	BPSK	100	0	Front	5mm	Ant 1	ECI 4	Main PA	167300	836.5	Code 0	20.15	21.50	1.365			0.10	0.589	0.804
	FR1 n5	20M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	167300	836.5	Code 0	20.29	21.50	1.321			-0.12	0.642	0.848
	FR1 n5	20M	BPSK	50	28	Back	5mm	Ant 1	ECI 4	Main PA	167300	836.5	Code 0	20.28	21.50	1.324			-0.01	0.722	0.956
	FR1 n5	20M	BPSK	100	0	Back	5mm	Ant 1	ECI 4	Main PA	167300	836.5	Code 0	20.15	21.50	1.365			-0.15	0.547	0.747
	FR1 n5	20M	BPSK	50	28	Back	5mm	Ant 1	ECI 4	Main PA	167300	836.5	Code 1	20.28	21.50	1.324			0.01	0.250	0.331
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 2	ECI 3	Main PA	507000	2535	-	18.51	19.00	1.119			0.01	0.760	0.850
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 2	ECI 3	Main PA	507000	2535	-	18.48	19.00	1.127			0.17	0.704	0.793
	FR1 n7	50M	BPSK	270	0	Front	5mm	Ant 2	ECI 3	Main PA	507000	2535	-	18.42	19.00	1.143			-0.09	0.614	0.702
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 2	ECI 3-1	Other PA	507000	2535	-	18.46	19.50	1.271			-0.12	0.644	0.819
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	507000	2535	-	18.51	19.00	1.119			-0.03	0.662	0.741
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 2	ECI 3	Main PA	507000	2535	-	18.48	19.00	1.127			-0.13	0.697	0.786
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 2	ECI 4	Main PA	507000	2535	-	22.15	22.50	1.084			-0.03	0.293	0.318
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 2	ECI 4	Main PA	507000	2535	-	22.14	22.50	1.086			-0.08	0.359	0.390
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	507000	2535	-	22.15	22.50	1.084			-0.10	0.666	0.722



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 2	ECI 4	Main PA	507000	2535	-	22.14	22.50	1.086			0.12	0.701	0.761
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	Main PA	507000	2535	-	19.03	20.00	1.25			0.05	0.577	0.721
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 3	ECI 3	Main PA	507000	2535	-	19.02	20.00	1.253			0.10	0.504	0.632
64	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	507000	2535	-	19.03	20.00	1.25			0.05	0.784	0.980
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 3	ECI 3	Main PA	507000	2535	-	19.02	20.00	1.253			0.08	0.682	0.855
	FR1 n7	50M	BPSK	270	0	Back	5mm	Ant 3	ECI 3	Main PA	507000	2535	-	18.84	20.00	1.306			0.06	0.595	0.777
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 3	ECI 3-1	Other PA	507000	2535	-	18.98	20.00	1.265			0.18	0.665	0.841
	FR1 n7	50M	BPSK	1	1	Front	10mm	Ant 3	ECI 4	Main PA	507000	2535	-	24.47	25.50	1.268			0.08	0.593	0.752
	FR1 n7	50M	BPSK	135	68	Front	10mm	Ant 3	ECI 4	Main PA	507000	2535	-	24.46	25.50	1.271			0.18	0.371	0.472
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 3	ECI 4	Main PA	507000	2535	-	24.47	25.50	1.268			-0.18	0.686	0.870
	FR1 n7	50M	BPSK	135	68	Back	10mm	Ant 3	ECI 4	Main PA	507000	2535	-	24.46	25.50	1.271			0.12	0.519	0.660
	FR1 n7	50M	BPSK	270	0	Back	10mm	Ant 3	ECI 4	Main PA	507000	2535	-	23.73	25.00	1.34			0.01	0.566	0.758
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 4	ECI 4	Main PA	507000	2535	-	18.31	18.70	1.094			0.01	0.338	0.370
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 4	ECI 4	Main PA	507000	2535	-	18.29	18.70	1.099			-0.09	0.390	0.429
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 4	ECI 4	Main PA	507000	2535	-	18.31	18.70	1.094			-0.05	0.513	0.561
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 4	ECI 4	Main PA	507000	2535	-	18.29	18.70	1.099			0.02	0.588	0.646
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 4	ECI 4-1	Other PA	507000	2535	-	17.95	18.20	1.059			0.07	0.508	0.538
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 5	ECI 4	Main PA	507000	2535	-	19.37	20.00	1.156			-0.03	0.527	0.609
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 5	ECI 4	Main PA	507000	2535	-	19.35	20.00	1.161			0.12	0.581	0.675
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 5	ECI 4	Main PA	507000	2535	-	19.37	20.00	1.156			-0.01	0.702	0.812
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 5	ECI 4	Main PA	507000	2535	-	19.35	20.00	1.161			0.05	0.736	0.854
	FR1 n7	50M	BPSK	270	0	Back	5mm	Ant 5	ECI 4	Main PA	507000	2535	-	19.29	20.00	1.178			-0.15	0.630	0.742
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 5	ECI 4-1	Other PA	507000	2535	-	19.21	20.00	1.199			0.01	0.605	0.725
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 2	ECI 3	Main PA	349000	1745	code B0	20.44	21.00	1.138			0.05	0.450	0.512
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 2	ECI 3	Main PA	349000	1745	code B0	20.43	21.00	1.14			-0.11	0.511	0.583
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	349000	1745	code B0	20.44	21.00	1.138			0.05	0.730	0.831
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	ECI 3	Main PA	349000	1745	code B0	20.43	21.00	1.14			-0.01	0.806	0.919
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 2	ECI 3	Main PA	349000	1745	code B0	20.31	21.00	1.172			0.14	0.691	0.810
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	ECI 3	Main PA	349000	1745	code B4	20.43	21.00	1.14			-0.00	0.799	0.911
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	ECI 3	Main PA	349000	1745	code 96	20.43	21.00	1.14			-0.09	0.741	0.845
	FR1 n66	40M	BPSK	1	1	Front	10mm	Ant 2	ECI 4	Main PA	349000	1745	code B0	23.09	23.50	1.099			-0.07	0.485	0.533
	FR1 n66	40M	BPSK	108	54	Front	10mm	Ant 2	ECI 4	Main PA	349000	1745	code B0	23.02	23.50	1.117			0.12	0.521	0.582
	FR1 n66	40M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	349000	1745	code B0	23.09	23.50	1.099			-0.16	0.730	0.802
	FR1 n66	40M	BPSK	108	54	Back	10mm	Ant 2	ECI 4	Main PA	349000	1745	code B0	23.02	23.50	1.117			-0.02	0.756	0.844
	FR1 n66	40M	BPSK	216	0	Back	10mm	Ant 2	ECI 4	Main PA	349000	1745	code B0	22.98	23.50	1.127			0.02	0.640	0.721
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	Main PA	349000	1745	code 61	18.49	19.70	1.321			-0.05	0.529	0.699
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 3	ECI 3	Main PA	349000	1745	code 61	18.47	19.70	1.327			0.12	0.513	0.681
65	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	349000	1745	code 61	18.49	19.70	1.321			-0.06	0.771	1.018
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 3	ECI 3	Main PA	349000	1745	code 61	18.47	19.70	1.327			-0.17	0.728	0.966
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 3	ECI 3	Main PA	349000	1745	code 61	18.30	19.70	1.38			0.14	0.631	0.871
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	349000	1745	code 52	18.49	19.70	1.321			0.14	0.122	0.161
	FR1 n66	40M	BPSK	1	1	Front	10mm	Ant 3	ECI 4	Main PA	349000	1745	code 61	22.65	23.70	1.274			-0.04	0.220	0.280
	FR1 n66	40M	BPSK	108	54	Front	10mm	Ant 3	ECI 4	Main PA	349000	1745	code 61	22.64	23.70	1.276			0.02	0.330	0.421
	FR1 n66	40M	BPSK	1	1	Back	10mm	Ant 3	ECI 4	Main PA	349000	1745	code 61	22.65	23.70	1.274			0.10	0.301	0.383
	FR1 n66	40M	BPSK	108	54	Back	10mm	Ant 3	ECI 4	Main PA	349000	1745	code 61	22.64	23.70	1.276			0.06	0.435	0.555
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 4	ECI 4	Main PA	349000	1745	-	20.64	21.20	1.138			0.06	0.427	0.486
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 4	ECI 4	Main PA	349000	1745	-	20.61	21.20	1.146			0.06	0.496	0.568
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 4	ECI 4	Main PA	349000	1745	-	20.64	21.20	1.138			-0.06	0.631	0.718
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 4	ECI 4	Main PA	349000	1745	-	20.61	21.20	1.146			-0.03	0.681	0.780
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 5	ECI 4	Main PA	349000	1745	-	19.27	20.50	1.327			0.09	0.541	0.718
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 5	ECI 4	Main PA	349000	1745	-	19.25	20.50	1.334			-0.01	0.604	0.806
	FR1 n66	40M	BPSK	216	0	Front	5mm	Ant 5	ECI 4	Main PA	349000	1745	-	19.16	20.50	1.361			0.04	0.531	0.723
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 5	ECI 4	Main PA	349000	1745	-	19.27	20.50	1.327			-0.08	0.627	0.832
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 5	ECI 4	Main PA	349000	1745	-	19.25	20.50	1.334			0.06	0.758	1.011
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 5	ECI 4	Main PA	349000	1745	-	19.16	20.50	1.361			0.11	0.665	0.905
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 2	ECI 3	Main PA	518598	2592.99	-	19.14	19.50	1.086			-0.02	0.507	0.551
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 2	ECI 3	Main PA	518598	2592.99	-	19.09	19.50	1.099			0.08	0.523	0.575
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	518598	2592.99	-	19.14	19.50	1.086			0.16	0.856	0.930
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 2	ECI 3	Main PA	518598	2592.99	-	19.09	19.50	1.099			0.03	0.854	0.939
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 2	ECI 3	Main PA	518598	2592.99	-	19.02	19.50	1.117			-0.05	0.654	0.731
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 2	ECI 3-1	Other PA	518598	2592.99	-	19.02	20.00	1.253			-0.00	0.642	0.804
	FR1 n41	100M	BPSK	1	1	Front	10mm	Ant 2	ECI 4	Main PA	518598	2592.99	-	23.09	23.50	1.099			-0.14	0.367	0.403
	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 2	ECI 4	Main PA	518598	2592.99	-	23.08	23.50	1.102			0.06	0.346	0.381
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	518598	2592.99	-	23.09	23.50	1.099			-0.07	0.618	0.679
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 2	ECI 4	Main PA	518598	2592.99	-	23.08	23.50	1.102			0.04	0.583	0.642
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	Main PA	518598	2592.99	-	19.98	21.00	1.265			0.04	0.618	0.782
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 3	ECI 3	Main PA	518598	2592.99	-	19.95	21.00	1.274			-0.09	0.631	0.804
	FR1 n41	100M	BPSK	270	0	Front	5mm	Ant 3	ECI 3	Main PA	518598	2592.99	-	19.90	21.00	1.288			-0.03	0.534	0.688
66	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	518598	2592.99	-	19.98	21.00	1.265			0.07	0.755	0.955
	FR1 n41	100M	BPSK	135	69	Back</															



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n41	100M	BPSK	135	69	Front	10mm	Ant 3	ECI 4	Main PA	518598	2592.99	-	23.97	25.50	1.422			0.19	0.495	0.704
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 3	ECI 4	Main PA	518598	2592.99	-	24.27	25.50	1.327			0.13	0.449	0.596
	FR1 n41	100M	BPSK	135	69	Back	10mm	Ant 3	ECI 4	Main PA	518598	2592.99	-	23.97	25.50	1.422			0.13	0.526	0.748
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 4	ECI 4	Main PA	518598	2592.99	-	18.83	19.20	1.089			0.03	0.376	0.409
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 4	ECI 4	Main PA	518598	2592.99	-	18.81	19.20	1.094			0.14	0.385	0.421
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 4	ECI 4	Main PA	518598	2592.99	-	18.83	19.20	1.089			-0.13	0.613	0.668
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 4	ECI 4	Main PA	518598	2592.99	-	18.81	19.20	1.094			0.09	0.622	0.680
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 4	ECI 4-1	Other PA	518598	2592.99	-	18.19	18.70	1.125			-0.12	0.480	0.540
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 5	ECI 4	Main PA	518598	2592.99	-	20.19	21.00	1.205			-0.10	0.543	0.654
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 5	ECI 4	Main PA	518598	2592.99	-	20.18	21.00	1.208			0.17	0.617	0.745
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 4	Main PA	518598	2592.99	-	20.19	21.00	1.205			0.18	0.699	0.842
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 4	Main PA	518598	2592.99	-	20.18	21.00	1.208			0.01	0.750	0.906
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 5	ECI 4	Main PA	518598	2592.99	-	20.00	21.00	1.259			-0.09	0.664	0.836
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 4-1	Other PA	518598	2592.99	-	20.11	21.00	1.227			-0.09	0.617	0.757
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	Main PA	641666	3624.99	-	17.44	18.50	1.276			0.09	0.458	0.584
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 1	ECI 4	Main PA	641666	3624.99	-	17.42	18.50	1.282			-0.00	0.429	0.550
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	641666	3624.99	-	17.44	18.50	1.276			-0.17	0.710	0.906
67	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	638000	3570	-	17.43	18.50	1.279			0.01	0.804	1.028
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	645332	3679.98	-	17.42	18.50	1.282			0.12	0.548	0.703
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 1	ECI 4	Main PA	641666	3624.99	-	17.42	18.50	1.282			0.13	0.676	0.867
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 1	ECI 4	Main PA	638000	3570	-	17.41	18.50	1.285			0.02	0.784	1.007
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 1	ECI 4	Main PA	645332	3679.98	-	17.40	18.50	1.288			0.05	0.533	0.687
	FR1 n48	40M	BPSK	100	0	Back	5mm	Ant 1	ECI 4	Main PA	641666	3624.99	-	17.34	18.50	1.306			0.17	0.597	0.780
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 2	ECI 3	Main PA	641666	3624.99	-	17.49	18.00	1.125			0.15	0.273	0.307
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 2	ECI 3	Main PA	641666	3624.99	-	17.48	18.00	1.127			-0.18	0.258	0.291
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	641666	3624.99	-	17.49	18.00	1.125			-0.11	0.526	0.592
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 2	ECI 3	Main PA	641666	3624.99	-	17.48	18.00	1.127			0.05	0.524	0.591
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 2	ECI 4	Main PA	641666	3624.99	-	21.49	22.00	1.125			0.06	0.370	0.416
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 2	ECI 4	Main PA	641666	3624.99	-	21.44	22.00	1.138			-0.03	0.380	0.432
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	641666	3624.99	-	21.49	22.00	1.125			-0.08	0.503	0.566
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 2	ECI 4	Main PA	641666	3624.99	-	21.44	22.00	1.138			0.13	0.513	0.584
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	Main PA	641666	3624.99	-	21.69	23.00	1.352			-0.12	0.174	0.235
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 3	ECI 3	Main PA	641666	3624.99	-	21.68	23.00	1.355			-0.02	0.167	0.226
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	641666	3624.99	-	21.69	23.00	1.352			-0.16	0.644	0.871
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	638000	3570	-	21.68	23.00	1.355			-0.18	0.688	0.932
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	645332	3679.98	-	21.67	23.00	1.358			0.02	0.733	0.995
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 3	ECI 3	Main PA	641666	3624.99	-	21.68	23.00	1.355			0.04	0.703	0.953
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 3	ECI 3	Main PA	638000	3570	-	21.67	23.00	1.358			-0.09	0.756	1.027
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 3	ECI 3	Main PA	645332	3679.98	-	21.65	23.00	1.365			-0.14	0.740	1.010
	FR1 n48	40M	BPSK	100	0	Back	5mm	Ant 3	ECI 3	Main PA	641666	3624.99	-	21.51	23.00	1.409			-0.01	0.617	0.869
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 3	ECI 4	Main PA	641666	3624.99	-	22.54	24.00	1.4			-0.10	0.099	0.139
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 3	ECI 4	Main PA	641666	3624.99	-	22.54	24.00	1.4			-0.04	0.092	0.129
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 3	ECI 4	Main PA	641666	3624.99	-	22.54	24.00	1.4			-0.13	0.223	0.312
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 3	ECI 4	Main PA	641666	3624.99	-	22.54	24.00	1.4			-0.03	0.232	0.325
	FR1 n48	40M	BPSK	1	1	Front	5mm	Ant 6	ECI 3	Main PA	641666	3624.99	-	20.32	21.50	1.312			0.02	0.128	0.168
	FR1 n48	40M	BPSK	50	28	Front	5mm	Ant 6	ECI 3	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.03	0.122	0.162
	FR1 n48	40M	BPSK	1	1	Back	5mm	Ant 6	ECI 3	Main PA	641666	3624.99	-	20.32	21.50	1.312			0.01	0.149	0.195
	FR1 n48	40M	BPSK	50	28	Back	5mm	Ant 6	ECI 3	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.01	0.153	0.203
	FR1 n48	40M	BPSK	1	1	Front	10mm	Ant 6	ECI 4	Main PA	641666	3624.99	-	20.32	21.50	1.312			0.02	0.048	0.063
	FR1 n48	40M	BPSK	50	28	Front	10mm	Ant 6	ECI 4	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.03	0.050	0.067
	FR1 n48	40M	BPSK	1	1	Back	10mm	Ant 6	ECI 4	Main PA	641666	3624.99	-	20.32	21.50	1.312			0.01	0.052	0.068
	FR1 n48	40M	BPSK	50	28	Back	10mm	Ant 6	ECI 4	Main PA	641666	3624.99	-	20.26	21.50	1.33			0.02	0.053	0.070
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	16.11	17.00	1.227			-0.13	0.579	0.710
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	16.09	17.00	1.233			-0.02	0.696	0.858
	FR1 n77	100M	BPSK	270	0	Front	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	16.01	17.00	1.256			0.09	0.613	0.770
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	16.11	17.00	1.227			0.13	0.410	0.503
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	16.09	17.00	1.233			-0.07	0.500	0.617
	FR1 n77_HPUE	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	19.18	20.00	1.208	50.0	1.0	0.02	0.653	0.789
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 2	ECI 3	Main PA	633332	3499.98	-	15.53	16.00	1.114			-0.08	0.376	0.419
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 2	ECI 3	Main PA	633332	3499.98	-	15.51	16.00	1.119			-0.18	0.404	0.452
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	633332	3499.98	-	15.53	16.00	1.114			0.01	0.687	0.765
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 2	ECI 3	Main PA	633332	3499.98	-	15.51	16.00	1.119			-0.17	0.647	0.724
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 2	ECI 4	Main PA	633332	3499.98	-	19.25	20.00	1.189			-0.04	0.398	0.473
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 2	ECI 4	Main PA	633332	3499.98	-	19.24	20.00	1.191			-0.02	0.434	0.517
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	633332	3499.98	-	19.25	20.00	1.189			-0.01	0.716	0.851
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 2	ECI 4	Main PA	633332	3499.98	-	19.24	20.00	1.191			0.15	0.653	0.778
	FR1 n77	100M	BPSK	270	0	Back	10mm	Ant 2	ECI 4	Main PA	633332	3499.98	-	19.13	20.00	1.222			0.01	0.605	0.739
	FR1 n77_HPUE	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	633332	3499.98	-	22.29	23.00	1.178	50.0	1.0	0.01	0.703	0.828
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	Main PA	633332	3499.98	-	20.61	22.00</						



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n77_HPUE	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	633332	3499.98	-	23.65	25.00	1.365	50.0	1.0	0.06	0.675	0.921
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 3	ECI 4	Main PA	633332	3499.98	-	21.71	23.00	1.346			0.02	0.246	0.331
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 3	ECI 4	Main PA	633332	3499.98	-	21.69	23.00	1.352			0.03	0.126	0.170
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 3	ECI 4	Main PA	633332	3499.98	-	21.71	23.00	1.346			0.01	0.182	0.245
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 3	ECI 4	Main PA	633332	3499.98	-	21.69	23.00	1.352			0.02	0.214	0.289
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 6	ECI 3	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.01	0.221	0.304
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 6	ECI 3	Main PA	633332	3499.98	-	20.11	21.50	1.377			0.02	0.206	0.284
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 6	ECI 3	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.00	0.390	0.536
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 6	ECI 3	Main PA	633332	3499.98	-	20.11	21.50	1.377			0.00	0.299	0.412
	FR1 n77_HPUE	100M	BPSK	1	1	Back	5mm	Ant 6	ECI 3	Main PA	633332	3499.98	-	22.07	23.50	1.39	50.0	1.0	0.00	0.304	0.423
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 6	ECI 4	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.02	0.089	0.122
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 6	ECI 4	Main PA	633332	3499.98	-	20.11	21.50	1.377			0.03	0.075	0.103
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 6	ECI 4	Main PA	633332	3499.98	-	20.12	21.50	1.374			0.01	0.115	0.158
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 6	ECI 4	Main PA	633332	3499.98	-	20.11	21.50	1.377			0.02	0.100	0.138
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	Main PA	656000	3840	-	16.03	17.00	1.25			0.16	0.269	0.336
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 4	Main PA	656000	3840	-	16.02	17.00	1.253			0.01	0.255	0.320
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	656000	3840	-	16.03	17.00	1.25			-0.05	0.439	0.549
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 4	Main PA	656000	3840	-	16.02	17.00	1.253			0.01	0.405	0.507
	FR1 n77_HPUE	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	656000	3840	-	19.05	20.00	1.245	50.0	1.0	-0.12	0.457	0.569
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 2	ECI 3	Main PA	656000	3840	-	15.53	16.00	1.114			0.00	0.403	0.449
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 2	ECI 3	Main PA	656000	3840	-	15.51	16.00	1.119			-0.15	0.446	0.499
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	656000	3840	-	15.53	16.00	1.114			0.01	0.589	0.656
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 2	ECI 3	Main PA	656000	3840	-	15.51	16.00	1.119			-0.16	0.362	0.405
	FR1 n77_HPUE	100M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	656000	3840	-	18.46	19.00	1.132	50.0	1.0	0.02	0.535	0.606
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 2	ECI 4	Main PA	656000	3840	-	19.49	20.00	1.125			0.16	0.240	0.270
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 2	ECI 4	Main PA	656000	3840	-	19.46	20.00	1.132			0.14	0.269	0.305
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	656000	3840	-	19.49	20.00	1.125			0.06	0.326	0.367
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 2	ECI 4	Main PA	656000	3840	-	19.46	20.00	1.132			0.15	0.353	0.400
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	Main PA	656000	3840	-	20.59	22.00	1.384			0.02	0.521	0.721
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 3	ECI 3	Main PA	656000	3840	-	20.58	22.00	1.387			0.03	0.535	0.742
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	656000	3840	-	20.59	22.00	1.384			0.02	0.721	0.998
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 3	Main PA	656000	3840	-	20.58	22.00	1.387			0.01	0.705	0.978
	FR1 n77	100M	BPSK	270	0	Back	5mm	Ant 3	ECI 3	Main PA	656000	3840	-	20.49	22.00	1.416			0.01	0.656	0.929
	FR1 n77_HPUE	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	656000	3840	-	23.59	25.00	1.384	50.0	1.0	0.02	0.661	0.915
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 3	ECI 4	Main PA	656000	3840	-	21.57	23.00	1.39			0.02	0.243	0.338
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 3	ECI 4	Main PA	656000	3840	-	21.53	23.00	1.403			0.03	0.161	0.226
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 3	ECI 4	Main PA	656000	3840	-	21.57	23.00	1.39			0.01	0.379	0.527
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 3	ECI 4	Main PA	656000	3840	-	21.53	23.00	1.403			0.02	0.205	0.288
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 6	ECI 3	Main PA	656000	3840	-	20.02	21.50	1.406			0.03	0.276	0.388
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 6	ECI 3	Main PA	656000	3840	-	20.05	21.50	1.396			0.02	0.300	0.419
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 6	ECI 3	Main PA	656000	3840	-	20.02	21.50	1.406			0.01	0.121	0.170
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 6	ECI 3	Main PA	656000	3840	-	20.05	21.50	1.396			0.05	0.236	0.329
	FR1 n77	100M	BPSK	1	1	Front	10mm	Ant 6	ECI 4	Main PA	656000	3840	-	20.02	21.50	1.406			0.02	0.074	0.104
	FR1 n77	100M	BPSK	135	69	Front	10mm	Ant 6	ECI 4	Main PA	656000	3840	-	20.05	21.50	1.396			0.03	0.114	0.159
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 6	ECI 4	Main PA	656000	3840	-	20.02	21.50	1.406			0.01	0.058	0.082
	FR1 n77	100M	BPSK	135	69	Back	10mm	Ant 6	ECI 4	Main PA	656000	3840	-	20.05	21.50	1.396			0.02	0.068	0.095
	FR1 n77_HPUE	100M	BPSK	135	69	Front	5mm	Ant 6	ECI 3	Main PA	656000	3840	-	22.51	24.50	1.581	50.0	1.0	0.01	0.255	0.403
	FR1 n78	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	17.66	18.50	1.213			-0.17	0.459	0.557
	FR1 n78	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	17.65	18.50	1.216			0.00	0.550	0.669
	FR1 n78	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	17.66	18.50	1.213			-0.05	0.693	0.841
	FR1 n78	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	17.65	18.50	1.216			-0.01	0.618	0.751
	FR1 n78	100M	BPSK	270	0	Back	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	17.47	18.50	1.268			0.00	0.498	0.631
	FR1 n78_HPUE	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	633332	3499.98	-	20.69	21.50	1.205	50.0	1.0	0.18	0.667	0.804
	FR1 n78	100M	BPSK	1	1	Front	5mm	Ant 2	ECI 3	Main PA	633332	3499.98	-	17.15	18.00	1.216			0.19	0.353	0.429
	FR1 n78	100M	BPSK	135	69	Front	5mm	Ant 2	ECI 3	Main PA	633332	3499.98	-	17.12	18.00	1.225			-0.05	0.285	0.349
	FR1 n78	100M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	633332	3499.98	-	17.15	18.00	1.216			0.01	0.613	0.745
	FR1 n78	100M	BPSK	135	69	Back	5mm	Ant 2	ECI 3	Main PA	633332	3499.98	-	17.12	18.00	1.225			0.02	0.570	0.698
	FR1 n78_HPUE	100M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	633332	3499.98	-	20.21	21.00	1.199	50.0	1.0	0.03	0.620	0.743
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 2	ECI 4	Main PA	633332	3499.98	-	19.65	20.50	1.216			-0.06	0.331	0.402
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 2	ECI 4	Main PA	633332	3499.98	-	19.64	20.50	1.219			0.09	0.325	0.396
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	633332	3499.98	-	19.65	20.50	1.216			0.11	0.553	0.672
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 2	ECI 4	Main PA	633332	3499.98	-	19.64	20.50	1.219			-0.06	0.545	0.664
	FR1 n78	100M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	Main PA	633332	3499.98	-	20.71	22.50	1.51			0.00	0.645	0.974
	FR1 n78	100M	BPSK	135	69	Front	5mm	Ant 3	ECI 3	Main PA	633332	3499.98	-	20.69	22.50	1.517			0.11	0.544	0.825
	FR1 n78	100M	BPSK	270	0	Front	5mm	Ant 3	ECI 3	Main PA	633332	3499.98	-	20.61	22.50	1.545			0.18	0.415	0.641
	FR1 n78	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	633332	3499.98	-	20.71	22.50	1.51			-0.06	0.658	0.994
	FR1 n78	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 3	Main PA	633332	3499.98	-	20.69	22.50	1.517			-0.09	0.701	1.063
	FR1 n78	100M	BPSK	270	0	Back	5mm	Ant 3	ECI 3	Main PA	633332	3499.98	-	20.61	22.50	1.545			0.10	0.640	0.989
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 3	ECI 4	Main PA	633332	3499.98	-								



FCC SAR Test Report

Report No. : FA5N1302

	FR1 n78	100M	BPSK	1	1	Front	5mm	Ant 6	ECI 3	Main PA	633332	3499.98	-	20.59	22.00	1.384			0.03	0.169	0.234
	FR1 n78	100M	BPSK	135	69	Front	5mm	Ant 6	ECI 3	Main PA	633332	3499.98	-	20.53	22.00	1.403			0.02	0.162	0.227
	FR1 n78	100M	BPSK	1	1	Back	5mm	Ant 6	ECI 3	Main PA	633332	3499.98	-	20.59	22.00	1.384			0.00	0.249	0.345
	FR1 n78	100M	BPSK	135	69	Back	5mm	Ant 6	ECI 3	Main PA	633332	3499.98	-	20.53	22.00	1.403			0.05	0.190	0.267
	FR1 n78_HPUE	100M	BPSK	1	1	Back	5mm	Ant 6	ECI 3	Main PA	633332	3499.98	-	24.51	26.00	1.409	50.0	1.0	0.06	0.299	0.421
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 6	ECI 4	Main PA	633332	3499.98	-	20.59	22.00	1.384			0.02	0.062	0.086
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 6	ECI 4	Main PA	633332	3499.98	-	20.53	22.00	1.403			0.00	0.057	0.080
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 6	ECI 4	Main PA	633332	3499.98	-	20.59	22.00	1.384			0.01	0.076	0.105
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 6	ECI 4	Main PA	633332	3499.98	-	20.53	22.00	1.403			0.02	0.065	0.091
	FR1 n78	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 4	Main PA	650000	3750	-	17.19	18.50	1.352			-0.07	0.471	0.637
	FR1 n78	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 4	Main PA	650000	3750	-	17.15	18.50	1.365			0.06	0.449	0.613
	FR1 n78	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	650000	3750	-	17.19	18.50	1.352			-0.05	0.754	1.019
	FR1 n78	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 4	Main PA	650000	3750	-	17.15	18.50	1.365			0.12	0.743	1.014
	FR1 n78	100M	BPSK	270	0	Back	5mm	Ant 1	ECI 4	Main PA	650000	3750	-	17.13	18.50	1.371			0.17	0.711	0.975
69	FR1 n78_HPUE	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 4	Main PA	650000	3750	-	20.23	21.50	1.34	50.0	1.0	0.17	0.797	1.068
	FR1 n78	100M	BPSK	1	1	Front	5mm	Ant 2	ECI 3	Main PA	650000	3750	-	17.15	18.00	1.216			0.16	0.147	0.179
	FR1 n78	100M	BPSK	135	69	Front	5mm	Ant 2	ECI 3	Main PA	650000	3750	-	17.12	18.00	1.225			-0.17	0.104	0.127
	FR1 n78	100M	BPSK	1	1	Back	5mm	Ant 2	ECI 3	Main PA	650000	3750	-	17.15	18.00	1.216			-0.09	0.285	0.347
	FR1 n78	100M	BPSK	135	69	Back	5mm	Ant 2	ECI 3	Main PA	650000	3750	-	17.12	18.00	1.225			-0.14	0.230	0.282
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 2	ECI 4	Main PA	650000	3750	-	19.37	20.50	1.297			-0.03	0.192	0.249
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 2	ECI 4	Main PA	650000	3750	-	19.36	20.50	1.3			-0.16	0.157	0.204
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	650000	3750	-	19.37	20.50	1.297			-0.08	0.322	0.418
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 2	ECI 4	Main PA	650000	3750	-	19.36	20.50	1.3			-0.17	0.297	0.386
	FR1 n78_HPUE	100M	BPSK	1	1	Back	10mm	Ant 2	ECI 4	Main PA	650000	3750	-	22.25	23.50	1.334	50.0	1.0	0.01	0.312	0.416
	FR1 n78	100M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	Main PA	650000	3750	-	20.65	22.50	1.531			-0.07	0.326	0.499
	FR1 n78	100M	BPSK	135	69	Front	5mm	Ant 3	ECI 3	Main PA	650000	3750	-	20.61	22.50	1.545			0.14	0.274	0.423
	FR1 n78	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	650000	3750	-	20.65	22.50	1.531			0.02	0.651	0.997
	FR1 n78	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 3	Main PA	650000	3750	-	20.61	22.50	1.545			0.18	0.579	0.895
	FR1 n78	100M	BPSK	270	0	Back	5mm	Ant 3	ECI 3	Main PA	650000	3750	-	20.53	22.50	1.574			-0.09	0.565	0.889
	FR1 n78_HPUE	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	Main PA	650000	3750	-	23.73	25.50	1.503	50.0	1.0	0.01	0.661	0.993
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 3	ECI 4	Main PA	650000	3750	-	21.81	23.50	1.476			0.12	0.117	0.173
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 3	ECI 4	Main PA	650000	3750	-	21.79	23.50	1.483			-0.05	0.109	0.162
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 3	ECI 4	Main PA	650000	3750	-	21.81	23.50	1.476			0.03	0.214	0.316
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 3	ECI 4	Main PA	650000	3750	-	21.79	23.50	1.483			-0.07	0.199	0.295
	FR1 n78	100M	BPSK	1	1	Front	5mm	Ant 6	ECI 3	Main PA	650000	3750	-	20.67	22.00	1.358			0.02	0.183	0.249
	FR1 n78	100M	BPSK	135	69	Front	5mm	Ant 6	ECI 3	Main PA	650000	3750	-	20.74	22.00	1.337			0.03	0.179	0.239
	FR1 n78_HPUE	100M	BPSK	1	1	Front	5mm	Ant 6	ECI 3	Main PA	650000	3750	-	24.35	26.00	1.462	50.0	1.0	0.02	0.213	0.311
	FR1 n78	100M	BPSK	1	1	Back	5mm	Ant 6	ECI 3	Main PA	650000	3750	-	20.67	22.00	1.358			0.01	0.140	0.190
	FR1 n78	100M	BPSK	135	69	Back	5mm	Ant 6	ECI 3	Main PA	650000	3750	-	20.74	22.00	1.337			0.05	0.125	0.167
	FR1 n78	100M	BPSK	1	1	Front	10mm	Ant 6	ECI 4	Main PA	650000	3750	-	20.67	22.00	1.358			0.01	0.058	0.079
	FR1 n78	100M	BPSK	135	69	Front	10mm	Ant 6	ECI 4	Main PA	650000	3750	-	20.74	22.00	1.337			0.02	0.064	0.086
	FR1 n78	100M	BPSK	1	1	Back	10mm	Ant 6	ECI 4	Main PA	650000	3750	-	20.67	22.00	1.358			0.03	0.049	0.067
	FR1 n78	100M	BPSK	135	69	Back	10mm	Ant 6	ECI 4	Main PA	650000	3750	-	20.74	22.00	1.337			0.01	0.046	0.062



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)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 8	Body worn Standalone	1	2412	13.85	14.5	1.161	98.64	1.014	0.07	0.223	0.263
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 8	Body worn Standalone	1	2412	13.85	14.5	1.161	98.64	1.014	0.06	0.249	0.293
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 7	Body worn Standalone	1	2412	13.75	14.5	1.189	98.64	1.014	0.05	0.399	0.481
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 7	Body worn Standalone	1	2412	13.75	14.5	1.189	98.64	1.014	-0.01	0.445	0.537
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 7	Non DBS	1	2412	7.28	8	1.180	98.64	1.014	0.02	0.158	0.189
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 7	Non DBS	1	2412	7.28	8	1.180	98.64	1.014	0.03	0.177	0.212
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 7	DBS	1	2412	5.29	6	1.178	98.64	1.014	0.01	0.101	0.121
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 7	DBS	1	2412	5.29	6	1.178	98.64	1.014	0.02	0.112	0.134
	WLAN2.4GHz	802.11n-HT40 MCS0	Front	5mm	Ant 8+7(8)	Body worn Standalone	6	2437	13.65	14.5	1.216	92.36	1.083	0.01	0.601	0.791
70	WLAN2.4GHz	802.11n-HT40 MCS0	Back	5mm	Ant 8+7(8)	Body worn Standalone	6	2437	13.65	14.5	1.216	92.36	1.083	0.02	0.801	1.055
	WLAN2.4GHz	802.11n-HT40 MCS0	Back	5mm	Ant 8+7(8)	Body worn Standalone	3	2422	13.55	14.5	1.245	92.36	1.083	0.03	0.705	0.951
	WLAN2.4GHz	802.11n-HT40 MCS0	Back	5mm	Ant 8+7(8)	Body worn Standalone	9	2452	13.53	14.5	1.250	92.36	1.083	0.02	0.701	0.949
	WLAN2.4GHz	802.11n-HT40 MCS0	Back	5mm	Ant 8+7(7)	WIFI only DBS	6	2437	11.05	12	1.245	92.36	1.083	0.01	0.441	0.595
	WLAN2.4GHz	802.11n-HT40 MCS0	Front	5mm	Ant 8+7(7)	Non DBS	6	2437	7.08	8	1.236	92.36	1.083	0.02	0.098	0.131
	WLAN2.4GHz	802.11n-HT40 MCS0	Back	5mm	Ant 8+7(7)	Non DBS	6	2437	7.08	8	1.236	92.36	1.083	0.03	0.143	0.191
	WLAN2.4GHz	802.11n-HT40 MCS0	Front	5mm	Ant 8+7(7)	DBS	6	2437	5.04	6	1.247	92.36	1.083	0.01	0.098	0.132
	WLAN2.4GHz	802.11n-HT40 MCS0	Back	5mm	Ant 8+7(7)	DBS	6	2437	5.04	6	1.247	92.36	1.083	0.02	0.111	0.15
71	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 6+7(6)	Full Power	54	5270	17.37	18.0	1.156	92.74	1.078	-0.04	0.849	1.058
	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 6+7(7)	Full Power	62	5310	15.4	16.0	1.148	92.74	1.078	0.01	0.808	1
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 6+7(6)	Full Power	54	5270	17.37	18.0	1.156	92.74	1.078	-0.12	0.838	1.044
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 6+7(7)	Full Power	62	5310	15.4	16.0	1.148	92.74	1.078	0.02	0.759	0.939
	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 6+7(7)	WIFI only Non DBS	54	5270	16.58	17.5	1.236	92.74	1.078	0.01	0.591	0.787
	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 6+7(7)	WIFI only DBS	54	5270	15.63	16.5	1.222	92.74	1.078	0.02	0.449	0.591
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+7(6)	Non DBS	50	5250	10.62	11.5	1.225	93.43	1.070	0.03	0.181	0.237
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 6+7(6)	Non DBS	50	5250	10.62	11.5	1.225	93.43	1.070	0.05	0.151	0.198
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+7(6)	DBS	50	5250	8.65	9.5	1.216	93.43	1.070	0.03	0.113	0.147
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 6+7(6)	DBS	50	5250	8.65	9.5	1.216	93.43	1.070	0.05	0.096	0.125
72	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7(7)	Body worn Standalone	138	5690	16.75	17.5	1.189	96.61	1.035	-0.09	0.450	0.554
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7(7)	Body worn Standalone	138	5690	16.75	17.5	1.189	96.61	1.035	0.1	0.320	0.394
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+7(6)	Non DBS	114	5570	12.11	13	1.227	93.43	1.070	0.02	0.179	0.235
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 6+7(6)	Non DBS	114	5570	12.11	13	1.227	93.43	1.070	0.03	0.127	0.167
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	5mm	Ant 6+7(6)	DBS	114	5570	10.15	11	1.216	93.43	1.070	0.05	0.113	0.147
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	5mm	Ant 6+7(6)	DBS	114	5570	10.15	11	1.216	93.43	1.070	0.06	0.101	0.131
73	WLAN5GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 6+7(7)	Standalone	155	5775	18.24	19	1.191	95.36	1.049	0.01	0.868	1.084
	WLAN5GHz	802.11ax-HE80 MCS0	Back	5mm	Ant 6+7(7)	Standalone	155	5775	18.24	19	1.191	95.36	1.049	0.05	0.648	0.81
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7(7)	WIFI only Non DBS	155	5775	16.63	17.5	1.222	96.61	1.035	0.03	0.601	0.76
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7(7)	WIFI only DBS	155	5775	15.68	16.5	1.208	96.61	1.035	0.03	0.477	0.596
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7(7)	Non DBS	155	5775	11.65	12.5	1.216	96.61	1.035	0.05	0.181	0.228
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7(7)	Non DBS	155	5775	11.65	12.5	1.216	96.61	1.035	0.06	0.151	0.19
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6+7(7)	DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.02	0.114	0.146
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6+7(7)	DBS	155	5775	9.58	10.5	1.236	96.61	1.035	0.03	0.095	0.122
	Bluetooth	1Mbps	Front	5mm	Ant 8	Full Power	39	2441	17.17	19	1.524	76.64	1.087	0.18	0.314	0.521
	Bluetooth	1Mbps	Back	5mm	Ant 8	Full Power	39	2441	17.17	19	1.524	76.64	1.087	-0.03	0.437	0.724
	Bluetooth	1Mbps	Back	5mm	Ant 8	WIFI onlyNon DBS BT MIMO/DBS	39	2441	14.48	16	1.419	76.64	1.087	0.02	0.256	0.395
	Bluetooth	1Mbps	Front	5mm	Ant 8	Non DBS	39	2441	10.49	12	1.416	76.64	1.087	0.01	0.093	0.143
	Bluetooth	1Mbps	Back	5mm	Ant 8	Non DBS	39	2441	10.49	12	1.416	76.64	1.087	0.02	0.147	0.226
	Bluetooth	LE 125kbps	Front	5mm	Ant 8	Non DBS BT MIMO/DBS	19	2440	8.54	10	1.400	82.1	1.015	0.02	0.055	0.078
	Bluetooth	LE 125kbps	Back	5mm	Ant 8	Non DBS BT MIMO/DBS	19	2440	8.54	10	1.400	82.1	1.015	0.01	0.079	0.112
	Bluetooth	1Mbps	Front	5mm	Ant 7	Body worn Standalone	39	2441	14.68	16.5	1.521	76.35	1.091	0.02	0.485	0.805
	Bluetooth	1Mbps	Front	5mm	Ant 7	Body worn Standalone	0	2402	14.23	16	1.503	76.35	1.091	0.07	0.472	0.774
	Bluetooth	1Mbps	Front	5mm	Ant 7	Body worn Standalone	78	2480	13.21	15	1.510	76.35	1.091	-0.01	0.394	0.649
74	Bluetooth	1Mbps	Back	5mm	Ant 7	Body worn Standalone	39	2441	14.68	16.5	1.521	76.35	1.091	0.02	0.602	0.999
	Bluetooth	1Mbps	Back	5mm	Ant 7	Body worn Standalone	0	2402	14.23	16	1.503	76.35	1.091	0.03	0.521	0.854
	Bluetooth	1Mbps	Back	5mm	Ant 7	Body worn Standalone	78	2480	13.21	15	1.510	76.35	1.091	0.05	0.518	0.853
	Bluetooth	1Mbps	Back	5mm	Ant 7	WIFI onlyNon DBS BT MIMO	39	2441	10.71	12.5	1.510	76.35	1.091	0.03	0.221	0.364
	Bluetooth	LE 125kbps	Front	5mm	Ant 7	Non DBS	19	2440	7.75	9.5	1.496	82.49	1.010	0.01	0.124	0.187
	Bluetooth	LE 125kbps	Back	5mm	Ant 7	Non DBS	19	2440	7.75	9.5	1.496	82.49	1.010	0.02	0.150	0.227
	Bluetooth	LE 125kbps	Front	5mm	Ant 7	Non DBS BT MIMO	19	2440	4.81	6.5	1.476	82.49	1.010	0.01	0.054	0.081
	Bluetooth	LE 125kbps	Back	5mm	Ant 7	Non DBS BT MIMO	19	2440	4.81	6.5	1.476	82.49	1.010	0.02	0.051	0.076



16.4 Product specific 10g SAR

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)
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 6+7(6)	Full Power	54	5270	17.37	18.0	1.156	92.74	1.078	-0.05	1.18	1.47
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+7(6)	Full Power	54	5270	17.37	18.0	1.156	92.74	1.078	-0.17	0.813	1.013
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 6+7(6)	Full Power	54	5270	17.37	18.0	1.156	92.74	1.078	-0.18	0.078	0.097
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6+7(6)	Full Power	54	5270	17.37	18.0	1.156	92.74	1.078	-0.18	1.51	1.882
75	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6+7(6)	Full Power	54	5270	17.37	18.0	1.156	92.74	1.078	0.09	1.92	2.393
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6+7(7)	Full Power	62	5310	15.4	16.0	1.148	92.74	1.078	0.09	1.56	1.931
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Ant 6+7(6)	Full Power	54	5270	17.37	18.0	1.156	92.74	1.078	0.16	0.041	0.051
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6+7(7)	Extremity Standalone	138	5690	16.75	17.5	1.189	96.61	1.035	-0.13	1.110	1.366
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Extremity Standalone	138	5690	16.75	17.5	1.189	96.61	1.035	0.14	0.766	0.943
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 6+7(7)	Extremity Standalone	138	5690	16.75	17.5	1.189	96.61	1.035	0.11	0.074	0.091
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+7(7)	Extremity Standalone	138	5690	16.75	17.5	1.189	96.61	1.035	0.07	1.420	1.747
76	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6+7(7)	Extremity Standalone	138	5690	16.75	17.5	1.189	96.61	1.035	0.01	1.81	2.227
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6+7(7)	Extremity Standalone	106	5530	15.07	16.0	1.239	96.61	1.035	0.04	1.64	2.103
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6+7(7)	Extremity Standalone	122	5610	16.58	17.5	1.236	96.61	1.035	0.07	1.71	2.188
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Ant 6+7(7)	Extremity Standalone	138	5690	16.75	17.5	1.189	96.61	1.035	-0.17	0.026	0.032



16.5 Repeated SAR Measurement

【Repeat SAR 1g - FCC】

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)	Ratio
1st	GSM850	GPRS 4 Tx slots	Back	5.0	Ant 1	ECI 4	251	848.8	24.45	25.50	1.274				0.841	1.071	-
2nd	GSM850	GPRS 4 Tx slots	Back	5.0	Ant 1	ECI 4	251	848.8	24.45	25.50	1.274			0.01	0.805	1.026	1.04
1st	WCDMA IV	RMC 12.2Kbps	Right Cheek	0.0	Ant 2	ECI 1	1513	1752.6	17.51	18.50	1.256			0.07	0.860	1.080	-
2nd	WCDMA IV	RMC 12.2Kbps	Right Cheek	0.0	Ant 2	ECI 1	1513	1752.6	17.51	18.50	1.256			0.02	0.831	1.044	1.03
1st	FR1 n2	20M_BPSK_1_1	Back	5.0	Ant 5	ECI 4	372000	1860	20.88	22.00	1.294			-0.10	0.842	1.090	-
2nd	FR1 n2	20M_BPSK_1_1	Back	5.0	Ant 5	ECI 4	372000	1860	20.88	22.00	1.294			0.03	0.825	1.068	1.02
1st	LTE Band 41	20M_QPSK_1_0	Right Cheek	0.0	Ant 2	ECI 1	39750	2506	18.40	19.00	1.148	62.9	1.006	0.06	0.866	1.000	-
2nd	LTE Band 41	20M_QPSK_1_0	Right Cheek	0.0	Ant 2	ECI 1	39750	2506	18.40	19.00	1.148	62.9	1.006	0.05	0.816	0.942	1.06
1st	LTE Band 42	20M_QPSK_1_0	Right Tilted	0.0	Ant 2	ECI 1	42190	3460	17.12	18.00	1.225	62.9	1.006	0.02	0.871	1.073	-
2nd	LTE Band 42	20M_QPSK_1_0	Right Tilted	0.0	Ant 2	ECI 1	42190	3460	17.12	18.00	1.225	62.9	1.006	0.06	0.831	1.024	1.05
1st	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8+7(8)	Head Standalone	6	2437	13.65	14.5	1.216	92.36	1.083	-0.13	0.818	1.077	-
2nd	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 8+7(8)	Head Standalone	6	2437	13.65	14.5	1.216	92.36	1.083	0.01	0.805	1.06	1.05
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Head Standalone	58	5290	13.46	14	1.132	96.61	1.035	-0.09	0.867	1.016	-
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Head Standalone	58	5290	13.46	14	1.132	96.61	1.035	0.01	0.835	0.978	1.038
1st	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(7)	Head Standalone	114	5570	13.71	14.5	1.199	93.43	1.070	0.01	0.818	1.049	-
2nd	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(7)	Head Standalone	114	5570	13.71	14.5	1.199	93.43	1.070	0.02	0.801	1.028	1.021
1st	WLAN5GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 6+7(7)	Standalone	155	5775	18.24	19	1.191	95.36	1.049	0.01	0.868	1.084	-
2nd	WLAN5GHz	802.11ax-HE80 MCS0	Front	5mm	Ant 6+7(7)	Standalone	155	5775	18.24	19	1.191	95.36	1.049	0.02	0.835	1.043	1.040

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR 1.45W/kg, only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured* SAR.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16.6 NR Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for 5GNR n77/n78. The highest available duty cycle for Power Class 2 operation is 50% 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 5GNR 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.

NR n77 Part27Q (HPUE)-Linearity Data for Head Ant1			NR n77 Part27O (HPUE)-Linearity Data for Head Ant1		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	14.50	17.50	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.910	0.852	Reported 1g SAR (W/kg)	0.688	0.659
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	28.18	28.12	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.908		Linearity SAR (W/kg)	0.686	
% deviation from expected linearity		-6.15%	% deviation from expected linearity		-3.99%
NR n77 Part27Q (HPUE)-Linearity Data for Body-worn Ant1			NR n77 Part27O (HPUE)-Linearity Data for Body-worn Ant1		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	17.00	20.00	Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.858	0.789	Reported 1g SAR (W/kg)	0.549	0.569
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	50.12	50.00	Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.856		Linearity SAR (W/kg)	0.548	
% deviation from expected linearity		-7.82%	% deviation from expected linearity		3.89%
NR n77 Part27Q (HPUE)-Linearity Data for Hotspot Ant1			NR n77 Part27O (HPUE)-Linearity Data for Hotspot Ant1		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	14.50	17.50	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.193	0.199	Reported 1g SAR (W/kg)	0.134	0.130
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	28.18	28.12	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.193		Linearity SAR (W/kg)	0.134	
% deviation from expected linearity		3.35%	% deviation from expected linearity		-2.75%
NR n78 Part27Q (HPUE)-Linearity Data for Head Ant1			NR n78 Part27O (HPUE)-Linearity Data for Head Ant1		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	14.50	17.50	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.824	0.893	Reported 1g SAR (W/kg)	0.522	0.505
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	28.18	28.12	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.822		Linearity SAR (W/kg)	0.521	
% deviation from expected linearity		8.63%	% deviation from expected linearity		-3.03%
NR n78 Part27Q (HPUE)-Linearity Data for Body-worn Ant1			NR n78 Part27O (HPUE)-Linearity Data for Body-worn Ant1		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50	Maximum Tune up Power (dBm)	18.50	21.50
Reported 1g SAR (W/kg)	0.841	0.804	Reported 1g SAR (W/kg)	1.019	1.068
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63	Frame Averaged (mW)	70.79	70.63
Linearity SAR (W/kg)	0.839		Linearity SAR (W/kg)	1.017	
% deviation from expected linearity		-4.17%	% deviation from expected linearity		5.06%
NR n78 Part27Q (HPUE)-Linearity Data for Hotspot Ant1			NR n78 Part27O (HPUE)-Linearity Data for Hotspot Ant1		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	14.50	17.50	Maximum Tune up Power (dBm)	14.50	17.50
Reported 1g SAR (W/kg)	0.178	0.190	Reported 1g SAR (W/kg)	0.200	0.190
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%



Frame Averaged (mW)	28.18	28.12	Frame Averaged (mW)	28.18	28.12
Linearity SAR (W/kg)	0.178		Linearity SAR (W/kg)	0.200	
% deviation from expected linearity		7.00%	% deviation from expected linearity		-4.77%

NR n77 Part27Q (HPUE)-Linearity Data for Head Ant2			NR n77 Part27O (HPUE)-Linearity Data for Head Ant2		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.00	18.00	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	0.960	0.866	Reported 1g SAR (W/kg)	0.427	0.398
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	0.958		Linearity SAR (W/kg)	0.426	
% deviation from expected linearity		-9.58%	% deviation from expected linearity		-6.57%
NR n77 Part27Q (HPUE)-Linearity Data for Body-worn Ant2			NR n77 Part27O (HPUE)-Linearity Data for Body-worn Ant2		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	20.00	23.00	Maximum Tune up Power (dBm)	16.00	19.00
Reported 1g SAR (W/kg)	0.851	0.828	Reported 1g SAR (W/kg)	0.656	0.606
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	100.00	99.76	Frame Averaged (mW)	39.81	39.72
Linearity SAR (W/kg)	0.849		Linearity SAR (W/kg)	0.654	
% deviation from expected linearity		-2.47%	% deviation from expected linearity		-7.40%
NR n77 Part27Q (HPUE)-Linearity Data for Hotspot Ant2			NR n77 Part27O (HPUE)-Linearity Data for Hotspot Ant2		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.00	18.00	Maximum Tune up Power (dBm)	15.00	18.00
Reported 1g SAR (W/kg)	0.171	0.159	Reported 1g SAR (W/kg)	0.116	0.113
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	31.62	31.55	Frame Averaged (mW)	31.62	31.55
Linearity SAR (W/kg)	0.171		Linearity SAR (W/kg)	0.116	
% deviation from expected linearity		-6.80%	% deviation from expected linearity		-2.35%
NR n78 Part27Q (HPUE)-Linearity Data for Head Ant2			NR n78 Part27O (HPUE)-Linearity Data for Head Ant2		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	14.00	17.00	Maximum Tune up Power (dBm)	14.00	17.00
Reported 1g SAR (W/kg)	0.887	0.968	Reported 1g SAR (W/kg)	0.720	0.691
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	25.12	25.06	Frame Averaged (mW)	25.12	25.06
Linearity SAR (W/kg)	0.885		Linearity SAR (W/kg)	0.718	
% deviation from expected linearity		9.39%	% deviation from expected linearity		-3.80%
NR n78 Part27Q (HPUE)-Linearity Data for Body-worn Ant2			NR n78 Part27O (HPUE)-Linearity Data for Body-worn Ant2		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00	Maximum Tune up Power (dBm)	20.50	23.50
Reported 1g SAR (W/kg)	0.745	0.743	Reported 1g SAR (W/kg)	0.418	0.416
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95	Frame Averaged (mW)	112.20	111.94
Linearity SAR (W/kg)	0.743		Linearity SAR (W/kg)	0.417	
% deviation from expected linearity		-0.03%	% deviation from expected linearity		-0.24%
NR n78 Part27Q (HPUE)-Linearity Data for Hotspot Ant2			NR n78 Part27O (HPUE)-Linearity Data for Hotspot Ant2		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	14.00	17.00	Maximum Tune up Power (dBm)	14.00	17.00
Reported 1g SAR (W/kg)	0.172	0.157	Reported 1g SAR (W/kg)	0.052	0.053
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	25.12	25.06	Frame Averaged (mW)	25.12	25.06
Linearity SAR (W/kg)	0.172		Linearity SAR (W/kg)	0.052	
% deviation from expected linearity		-8.50%	% deviation from expected linearity		2.17%

NR n77 Part27Q (HPUE)-Linearity Data for Head Ant3			NR n77 Part27O (HPUE)-Linearity Data for Head Ant3		
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	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	26.00	Maximum Tune up Power (dBm)	24.00	26.00
Reported 1g SAR (W/kg)	0.838	0.702	Reported 1g SAR (W/kg)	0.583	0.488
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	251.19	199.05	Frame Averaged (mW)	251.19	199.05
Linearity SAR (W/kg)	0.664		Linearity SAR (W/kg)	0.462	
% deviation from expected linearity		5.71%	% deviation from expected linearity		5.63%
NR n77 Part27Q (HPUE)-Linearity Data for Body-worn Ant3			NR n77 Part27O (HPUE)-Linearity Data for Body-worn Ant3		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00	Maximum Tune up Power (dBm)	22.00	25.00
Reported 1g SAR (W/kg)	1.023	0.921	Reported 1g SAR (W/kg)	0.998	0.915
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11	Frame Averaged (mW)	158.49	158.11
Linearity SAR (W/kg)	1.021		Linearity SAR (W/kg)	0.996	
% deviation from expected linearity		-9.76%	% deviation from expected linearity		-8.10%
NR n77 Part27Q (HPUE)-Linearity Data for Hotspot Ant3			NR n77 Part27O (HPUE)-Linearity Data for Hotspot Ant3		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00	Maximum Tune up Power (dBm)	22.00	25.00
Reported 1g SAR (W/kg)	0.500	0.472	Reported 1g SAR (W/kg)	0.848	0.837
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11	Frame Averaged (mW)	158.49	158.11
Linearity SAR (W/kg)	0.499		Linearity SAR (W/kg)	0.846	
% deviation from expected linearity		-5.38%	% deviation from expected linearity		-1.06%
NR n78 Part27Q (HPUE)-Linearity Data for Head Ant3			NR n78 Part27O (HPUE)-Linearity Data for Head Ant3		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	24.50	27.50	Maximum Tune up Power (dBm)	24.50	27.50
Reported 1g SAR (W/kg)	0.995	1.081	Reported 1g SAR (W/kg)	1.026	0.994
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	281.84	281.17	Frame Averaged (mW)	281.84	281.17
Linearity SAR (W/kg)	0.993		Linearity SAR (W/kg)	1.024	
% deviation from expected linearity		8.90%	% deviation from expected linearity		-2.89%
NR n78 Part27Q (HPUE)-Linearity Data for Body-worn Ant3			NR n78 Part27O (HPUE)-Linearity Data for Body-worn Ant3		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	22.50	25.50	Maximum Tune up Power (dBm)	22.50	25.50
Reported 1g SAR (W/kg)	1.063	1.064	Reported 1g SAR (W/kg)	0.997	0.993
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	177.83	177.41	Frame Averaged (mW)	177.83	177.41
Linearity SAR (W/kg)	1.060		Linearity SAR (W/kg)	0.995	
% deviation from expected linearity		0.33%	% deviation from expected linearity		-0.16%
NR n78 Part27Q (HPUE)-Linearity Data for Hotspot Ant3			NR n78 Part27O (HPUE)-Linearity Data for Hotspot Ant3		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	22.50	25.50	Maximum Tune up Power (dBm)	22.50	25.50
Reported 1g SAR (W/kg)	0.293	0.290	Reported 1g SAR (W/kg)	0.352	0.332
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	177.83	177.41	Frame Averaged (mW)	177.83	177.41
Linearity SAR (W/kg)	0.292		Linearity SAR (W/kg)	0.351	
% deviation from expected linearity		-0.79%	% deviation from expected linearity		-5.46%

NR n77 Part27Q (HPUE)-Linearity Data for Head Ant6			NR n77 Part27O (HPUE)-Linearity Data for Head Ant6		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.50	23.50	Maximum Tune up Power (dBm)	21.50	23.50
Reported 1g SAR (W/kg)	0.563	0.476	Reported 1g SAR (W/kg)	0.935	0.801
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	111.94	Frame Averaged (mW)	141.25	111.94
Linearity SAR (W/kg)	0.446		Linearity SAR (W/kg)	0.741	
% deviation from expected linearity		6.69%	% deviation from expected linearity		8.11%
NR n77 Part27Q (HPUE)-Linearity Data for Body-worn Ant6			NR n77 Part27O (HPUE)-Linearity Data for Body-worn Ant6		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.50	23.50	Maximum Tune up Power (dBm)	21.50	24.50
Reported 1g SAR (W/kg)	0.536	0.423	Reported 1g SAR (W/kg)	0.419	0.403
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	111.94	Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	0.425		Linearity SAR (W/kg)	0.418	
% deviation from expected linearity		-0.41%	% deviation from expected linearity		-3.59%
NR n77 Part27Q (HPUE)-Linearity Data for Hotspot Ant6			NR n77 Part27O (HPUE)-Linearity Data for Hotspot Ant6		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)		NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.50	23.50	Maximum Tune up Power (dBm)	21.50	23.50
Reported 1g SAR (W/kg)	0.286	0.229	Reported 1g SAR (W/kg)	0.165	0.122
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	111.94	Frame Averaged (mW)	141.25	111.94
Linearity SAR (W/kg)	0.227		Linearity SAR (W/kg)	0.131	
% deviation from expected linearity		1.04%	% deviation from expected linearity		-6.69%
NR n78 Part27Q (HPUE)-Linearity Data for Head Ant6			NR n78 Part27O (HPUE)-Linearity Data for Head Ant6		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	26.00	Maximum Tune up Power (dBm)	22.00	26.00
Reported 1g SAR (W/kg)	0.426	0.485	Reported 1g SAR (W/kg)	0.703	0.846
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	199.05	Frame Averaged (mW)	158.49	199.05
Linearity SAR (W/kg)	0.535		Linearity SAR (W/kg)	0.883	
% deviation from expected linearity		-9.35%	% deviation from expected linearity		-4.18%
NR n78 Part27Q (HPUE)-Linearity Data for Body-worn Ant6			NR n78 Part27O (HPUE)-Linearity Data for Body-worn Ant6		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	26.00	Maximum Tune up Power (dBm)	22.00	26.00
Reported 1g SAR (W/kg)	0.345	0.421	Reported 1g SAR (W/kg)	0.249	0.311
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	199.05	Frame Averaged (mW)	158.49	199.05
Linearity SAR (W/kg)	0.433		Linearity SAR (W/kg)	0.313	
% deviation from expected linearity		-2.84%	% deviation from expected linearity		-0.55%
NR n78 Part27Q (HPUE)-Linearity Data for Hotspot Ant6			NR n78 Part27O (HPUE)-Linearity Data for Hotspot Ant6		
	NR n78 (Power Class 3)	NR n78 (Power Class 2)		NR n78 (Power Class 3)	NR n78 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	26.00	Maximum Tune up Power (dBm)	22.00	26.00
Reported 1g SAR (W/kg)	0.177	0.221	Reported 1g SAR (W/kg)	0.121	0.139
Duty Cycle	100.00%	50.00%	Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	199.05	Frame Averaged (mW)	158.49	199.05
Linearity SAR (W/kg)	0.222		Linearity SAR (W/kg)	0.152	
% deviation from expected linearity		-0.59%	% deviation from expected linearity		-8.53%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN 2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN 5GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
4.	2.4GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
5.	5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
6.	5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
7.	WWAN + WLAN 2.4GHz + Bluetooth	Yes	Yes	Yes	Yes
8.	WWAN +5GHz WLAN + Bluetooth	Yes	Yes	Yes	Yes
9.	WWAN +5GHz WLAN + 2.4GHz WLAN	Yes	Yes	Yes	Yes
10.	WWAN +5GHz WLAN + 2.4GHz WLAN+BT	Yes	Yes	Yes	Yes
11.	WWAN + WLAN 2.4GHz+ NFC				Yes
12.	WWAN + WLAN 5GHz+ NFC				Yes
13.	WWAN + Bluetooth+ NFC				Yes
14.	2.4GHz WLAN + Bluetooth+ NFC				Yes
15.	5GHz WLAN + Bluetooth+ NFC				Yes
16.	5GHz WLAN + 2.4GHz WLAN+ NFC				Yes
17.	WWAN + WLAN 2.4GHz + Bluetooth+ NFC				Yes
18.	WWAN +5GHz WLAN + Bluetooth+ NFC				Yes
19.	WWAN +5GHz WLAN + 2.4GHz WLAN+ NFC				Yes
20.	WWAN +5GHz WLAN + 2.4GHz WLAN+BT+ NFC				Yes

General Note:

1. This device supports VoIP in GPRS, EGPRS, 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. WLAN2.4GHz/WLAN5GHz MIMO SAR can represent SISO SAR to do co-located SAR analysis.
4. EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
5. For EN-DC mode, MediaTek TA-SAR algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. TA-SAR algorithm controls the total RF exposure from both 4G and 5G NR to not exceed SAR exposure limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In this 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 supports WLAN Direct (GC only).
8. According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
9. According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can transmit simultaneously.
10. According to the EUT characteristic, when WLAN 2.4GHz and Bluetooth share the same antenna path and cannot transmit simultaneously; when WLAN2.4GHz Ant7 and Bluetooth Ant8 are located on different antennas, they can transmit simultaneously, and when WLAN2.4GHz Ant8 and Bluetooth Ant7 are located on different antennas, they cannot transmit simultaneously.
11. According to the EUT characteristic, WWAN +WLAN 2.4GHz Ant7+ WLAN 5GHz + BT Ant8 can transmit simultaneously.
12. According to the EUT characteristic, BT Ant7 + BT Ant8 can transmit simultaneously.
13. NFC can transmit simultaneously with other Radios in extremity exposure condition.
14. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
15. When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
16. For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
17. The maximum SAR summation is calculated based on the same configuration and test position.

18. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
- 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR 4.0W/kg.
 - The SPLSR calculated results please refer to section 17.6.

17.1 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 MediaTek TA-SAR, 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.

TA-SAR 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 y. Thus, the compliance equation for LTE + 5G NR is

$$\begin{aligned} x \cdot A + y \cdot B + m &\leq 1 \\ x + y &= g \leq 1 \\ g + m &\leq 1 \end{aligned}$$

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., PD exposure for 5G FR2 or SAR exposure for 5G FR1), and $B \leq 1.0$.

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

$$x \cdot A + y \cdot B + m \leq 1.0 \quad (1)$$

$$x \cdot A + y \cdot B \leq x \cdot \max(A, B) + (g-x) \cdot \max(A, B) \leq \max(A, B)$$

$$x \cdot A + (g-x) \cdot B + m \leq \max(A, B) + m \leq 1.0 \quad (2)$$

If $A + m \leq 1.0$ and $B + m \leq 1.0$ can be proven, then " $x \cdot A + y \cdot B + m \leq 1.0$ ". 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 $A + m > 1.0$ and/or $B + m > 1.0$, then the followings need to hold true for compliance:

- A and m are decoupled based on the SPLSR criteria, and
- $y \cdot B + m \leq 1.0$, and
- $x \cdot A + y \cdot B \leq 1.0$

Note iii. is covered in Part 2 report; i. and ii. should be addressed in Part 1 report.

Above analysis is also apply to LTE/NR inter-band uplink, LTE1 + LTE(NR)2 + 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/NR + WLAN + BT < 1.

The device also enabled Mediatek's TA-SAR Gen2 algorithm to improve antenna performance by applying separate SAR budgets to each predefined antenna group. There are two predefined antenna groups of AG0, AG1, more detail as following table. Each antenna group is spatially separated to others. Simultaneous transmission analysis is performed per antenna group. Below analysis demonstrates the spatially separation of AG0, AG1, and the compliance between AG0 and BT/WLAN/NFC and between AG1 and BT/WLAN/NFC.

Thus, the concept was to split the SAR/TER on the transmitting RATs even they are transmitting on different antennas. Such approach is considered as a worst-case scenario in terms of transmitting power. Thus, to enhance the performance of the transmission power of RATs, consider the spatial properties of each antenna and the correlations between the antenna's transmissions.

SPLSR_Group (Antenna Group):

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

Note that WLAN/BT operations are not enabled with TA-SAR Gen2 feature.

The verification of spatial separation of the antenna groups is demonstrated through the following steps, together with WIF/BT simultaneous transmission analysis results.

- The highest reported SAR at Plimit (or Pmax when Plimit > Pmax) for each antenna should be obtained out of all supported technologies and frequency bands for each power index. Demonstrate that the sum of reported SAR of one antenna from each of the antenna groups and the sum of RF exposure from all supported radios outside of TAS feature should be less than the regulatory limit as given below for each power index.
- If the sum of SAR from step i) is over 1.6 W/kg for 1g, demonstrate for a given power index that every antenna from one antenna group meets SPLSR criteria with every antenna in another antenna group for all frequency bands. SPLSR criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios, SPLSR Hotspot combination procedure (Hybrid SPLSR) also be considered for simultaneous transmission analysis.
- If SPLSR evaluation and analysis is needed to determine compliance for a certain power index configuration, SPLSR is performed by taking the highest summation SAR for each of the supported technologies and bands per antenna, along with the minimum of peak SAR location distance. The minimum of peak location distance is documented in the Highest Report SAR and Hotspot Location below for each power index configuration.
- In section 17.6 SPLSR analysis only evaluation Sim-Tx SAR configuration are rounded to two decimal higher or equal to 1.6W/kg.
- The analysis addresses the simultaneous transmission and the transition among non-simultaneous transmission radios

For summed SAR results and SPLSR detailed analysis, please refer to section 17.2/17.3 / 17.4 / 17.5 / 17.6 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

17.2 Head Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant1	Ant2	Ant3	Ant4	Ant6	MAX
Right Cheek	0.985	1.080	1.026	1.054	0.440	1.080
Right Tilted	0.227	1.073	0.145	0.424	0.452	1.073
Left Cheek	0.975	0.531	1.081	0.317	0.935	1.081
Left Tilted	0.152	0.635	0.276	0.195	0.779	0.779

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant5	MAX
Right Cheek	0.295	0.197	0.295
Right Tilted	0.203	0.104	0.203
Left Cheek	0.318	0.274	0.318
Left Tilted	0.177	0.101	0.177

<WLAN2.4GHz/5GHz +BT Worse-case SAR>:

NO	1	2	3	4	5	6	7	8	9	10
Test Position	WLAN5GHz Ant 6+7 Non DBS	WLAN5GHz Ant 6+7 DBS	WLAN2.4GHz Ant 7 DBS	WLAN2.4GHz Ant 7 Non DBS	WLAN2.4GHz Ant 8+7 DBS	Bluetooth Ant 8 Non DBS	Bluetooth Ant 7 Non DBS	Bluetooth Ant 8 Non DBS BT MIMO/DBS	Bluetooth Ant 7 Non DBS BT MIMO	WLAN2.4GHz Ant 8+7 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)
Right Cheek	0.103	0.065	0.042	0.069	0.058	0.107	0.059	0.053	0.030	0.091
Right Tilted	0.131	0.082	0.037	0.061	0.049	0.047	0.053	0.021	0.025	0.079
Left Cheek	0.242	0.152	0.125	0.208	0.150	0.230	0.245	0.120	0.121	0.236
Left Tilted	0.234	0.146	0.106	0.177	0.136	0.236	0.131	0.113	0.064	0.217

NO	1+6	1+7	1+8+9	2+3+8	2+5	4+6	1+10	WLAN+BT worse case
Test Position	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)
Right Cheek	0.210	0.162	0.186	0.160	0.123	0.176	0.194	0.210
Right Tilted	0.178	0.184	0.177	0.140	0.131	0.108	0.210	0.210
Left Cheek	0.472	0.487	0.483	0.397	0.302	0.438	0.478	0.487
Left Tilted	0.470	0.365	0.411	0.365	0.282	0.413	0.451	0.470

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Right Cheek	1.080	0.295	0.210	1.59
Right Tilted	1.073	0.203	0.210	1.49
Left Cheek	1.081	0.318	0.487	1.89
Left Tilted	0.779	0.177	0.470	1.43

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Left Cheek					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN+BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.318	0.975	0.487	1.78	Case 1
Ant0-Ant2	0.318	0.531	0.487	1.34	
Ant0-Ant3	0.318	1.081	0.487	1.89	Case 2
Ant0-Ant4	0.318	0.317	0.487	1.12	
Ant0-Ant6	0.318	0.935	0.487	1.74	Case 3
Ant5-Ant1	0.274	0.975	0.487	1.74	Case 4
Ant5-Ant2	0.274	0.531	0.487	1.29	
Ant5-Ant3	0.274	1.081	0.487	1.84	Case 5
Ant5-Ant4	0.274	0.317	0.487	1.08	
Ant5-Ant6	0.274	0.935	0.487	1.70	Case 6

<Simultaneous Transmission analysis of WLAN+BT and WWAN cell-off >:

Head DBS only									
NO	1	2	3	4	5	6			
Test Position	WLAN2.4GHz Ant7 WIFI only DBS	WLAN2.4GHz Ant8+7 WIFI only DBS	WLAN5GHz Ant 6+7 WIFI only Non DBS	WLAN5GHz Ant 6+7 WIFI only DBS	Bluetooth Ant 8 WIFI only Non DBS BT MIMO/DBS	Bluetooth Ant 7 WIFI only Non DBS BT MIMO	3+5+6	1+4+5	2+4
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Right Cheek	0.526	0.593	0.811	0.585	0.372	0.392	1.58	1.48	1.18
Right Tilted	0.526	0.593	0.811	0.585	0.372	0.392	1.58	1.48	1.18
Left Cheek	0.526	0.593	0.811	0.585	0.372	0.392	1.58	1.48	1.18
Left Tilted	0.526	0.593	0.811	0.585	0.372	0.392	1.58	1.48	1.18

17.3 Hotspot Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant1	Ant2	Ant3	Ant4	Ant6	MAX
Front	0.640	0.241	0.336	0.185	0.159	0.640
Back	0.716	0.336	0.525	0.275	0.158	0.716
Left Side	0.873	0.109	0.003	0.498	0.001	0.873
Right Side	0.001	0.065	0.848	0.373	0.062	0.848
Top Side	0.035	0.518	0.036	0.103	0.286	0.518
Bottom Side	0.009	0.020	0.030	0.025	0.001	0.030

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant5	MAX
Front	0.492	0.432	0.492
Back	0.572	0.447	0.572
Left Side	0.174	0.130	0.174
Right Side	0.345	0.085	0.345
Top Side	0.003	0.003	0.003
Bottom Side	0.457	1.018	1.018

<WLAN2.4GHz/5GHz +BT Worse-case SAR>:

NO	1	2	3	4	5	6	7	8	9	10
Test Position	WLAN5GHz Ant 6+7 Non DBS	WLAN5GHz Ant 6+7 DBS	WLAN2.4GHz Ant 7 DBS	WLAN2.4GHz Ant 7 Non DBS	WLAN2.4GHz Ant 8+7 DBS	Bluetooth Ant 8 Non DBS	Bluetooth Ant 7 Non DBS	Bluetooth Ant 8 Non DBS BT MIMO/DBS	Bluetooth Ant 7 Non DBS BT MIMO	WLAN2.4GHz Ant 8+7 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)
Front	0.186	0.117	0.112	0.200	0.135	0.201	0.159	0.085	0.071	0.234
Back	0.139	0.088	0.114	0.205	0.138	0.260	0.162	0.125	0.073	0.240
Left Side	0.033	0.024	0.006	0.011	0.007	0.053	0.002	0.022	0.002	0.013
Right Side	0.213	0.142	0.133	0.239	0.160	0.092	0.263	0.040	0.121	0.279
Top Side	0.210	0.147	0.044	0.081	0.054	0.086	0.073	0.096	0.033	0.095
Bottom Side	0.014	0.010	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.001

NO	1+6	1+7	1+8+9	2+3+8	2+5	4+6	1+10	WLAN+BT worse case
Test Position	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)
Front	0.387	0.345	0.342	0.314	0.252	0.401	0.420	0.420
Back	0.399	0.301	0.337	0.327	0.226	0.465	0.379	0.465
Left Side	0.086	0.035	0.057	0.052	0.031	0.064	0.046	0.086
Right Side	0.305	0.476	0.374	0.315	0.302	0.331	0.492	0.492
Top Side	0.296	0.283	0.339	0.287	0.201	0.167	0.305	0.339
Bottom Side	0.015	0.016	0.018	0.013	0.011	0.002	0.015	0.018

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.640	0.492	0.420	1.55
Back	0.716	0.572	0.465	1.75
Left Side	0.873	0.174	0.086	1.13
Right Side	0.848	0.345	0.492	1.69
Top Side	0.518	0.003	0.339	0.86
Bottom Side	0.030	1.018	0.018	1.07

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Back 10mm					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.572	0.716	0.465	1.75	Case 1
Ant0-Ant2	0.572	0.336	0.465	1.37	
Ant0-Ant3	0.572	0.525	0.465	1.56	
Ant0-Ant4	0.572	0.275	0.465	1.31	
Ant0-Ant6	0.572	0.158	0.465	1.20	
Ant5-Ant1	0.447	0.716	0.465	1.63	Case 2
Ant5-Ant2	0.447	0.336	0.465	1.25	
Ant5-Ant3	0.447	0.525	0.465	1.44	
Ant5-Ant4	0.447	0.275	0.465	1.19	
Ant5-Ant6	0.447	0.158	0.465	1.07	

Right Side 10mm					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	0.345	0.001	0.492	0.84	
Ant0-Ant2	0.345	0.065	0.492	0.90	
Ant0-Ant3	0.345	0.848	0.492	1.69	Case 3
Ant0-Ant4	0.345	0.373	0.492	1.21	
Ant0-Ant6	0.345	0.062	0.492	0.90	
Ant5-Ant1	0.085	0.001	0.492	0.58	
Ant5-Ant2	0.085	0.065	0.492	0.64	
Ant5-Ant3	0.085	0.848	0.492	1.43	
Ant5-Ant4	0.085	0.373	0.492	0.95	
Ant5-Ant6	0.085	0.062	0.492	0.64	

<Simultaneous Transmission analysis of WLAN+BT and WWAN cell-off >:

Hotspot DBS only									
NO	1	2	3	4	5	6			
Test Position	WLAN2.4GHz Ant7 WIFI only DBS	WLAN2.4GHz Ant8+7 WIFI only DBS	WLAN5GHz Ant 6+7 WIFI only Non DBS	WLAN5GHz Ant 6+7 WIFI only DBS	Bluetooth Ant 8 WIFI only Non DBS BT MIMO/DBS	Bluetooth Ant 7 WIFI only Non DBS BT MIMO	3+5+6	1+4+5	2+4
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.200	0.234	0.745	0.573	0.201	0.368	1.31	0.97	0.81
Back	0.205	0.240	0.745	0.573	0.260	0.368	1.37	1.04	0.81
Left Side	0.011	0.013	0.745	0.573	0.053	0.368	1.17	0.64	0.59
Right Side	0.239	0.279	0.745	0.573	0.092	0.368	1.21	0.90	0.85
Top Side	0.081	0.095	0.745	0.573	0.086	0.368	1.20	0.74	0.67
Bottom Side	0.001	0.001	0.745	0.573	0.001	0.368	1.11	0.58	0.57

17.4 Body-Worn Accessory Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant1	Ant2	Ant3	Ant4	Ant6	MAX
Front	0.958	0.850	0.974	1.083	0.419	1.083
Back	1.093	0.941	1.093	1.049	0.536	1.093

<AG1 maximum reported SAR>:

Test Position	Ant0	Ant5	MAX
Front	1.055	0.893	1.055
Back	1.090	1.090	1.090

<WLAN2.4GHz/5GHz +BT Worse-case SAR>:

NO	1	2	3	4	5	6	7	8	9	10
Test Position	WLAN5GHz Ant 6+7 Non DBS	WLAN5GHz Ant 6+7 DBS	WLAN2.4GHz Ant 7 DBS	WLAN2.4GHz Ant 7 Non DBS	WLAN2.4GHz Ant 8+7 DBS	Bluetooth Ant 8 Non DBS	Bluetooth Ant 7 Non DBS	Bluetooth Ant 8 Non DBS BT MIMO/DBS	Bluetooth Ant 7 Non DBS BT MIMO	WLAN2.4GHz Ant 8+7 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)
Front	0.237	0.147	0.121	0.189	0.132	0.143	0.187	0.078	0.081	0.131
Back	0.198	0.131	0.134	0.212	0.150	0.226	0.227	0.112	0.076	0.191

NO	1+6	1+7	1+8+9	2+3+8	2+5	4+6	1+10	WLAN+BT worse case
Test Position	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)
Front	0.380	0.424	0.396	0.346	0.279	0.332	0.368	0.424
Back	0.424	0.425	0.386	0.377	0.281	0.438	0.389	0.438

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	1.083	1.055	0.424	2.56
Back	1.093	1.090	0.438	2.62

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Front 5mm					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	1.055	0.958	0.424	2.44	Case 1
Ant0-Ant2	1.055	0.850	0.424	2.33	Case 2
Ant0-Ant3	1.055	0.974	0.424	2.45	Case 3
Ant0-Ant4	1.055	1.083	0.424	2.56	Case 4
Ant0-Ant6	1.055	0.419	0.424	1.90	Case 5
Ant5-Ant1	0.893	0.958	0.424	2.28	Case 6
Ant5-Ant2	0.893	0.850	0.424	2.17	Case 7
Ant5-Ant3	0.893	0.974	0.424	2.29	Case 8
Ant5-Ant4	0.893	1.083	0.424	2.40	Case 9
Ant5-Ant6	0.893	0.419	0.424	1.74	Case 10

Back 5mm					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant1	1.090	1.093	0.438	2.62	Case 11
Ant0-Ant2	1.090	0.941	0.438	2.47	Case 12
Ant0-Ant3	1.090	1.093	0.438	2.62	Case 13
Ant0-Ant4	1.090	1.049	0.438	2.58	Case 14
Ant0-Ant6	1.090	0.536	0.438	2.06	Case 15
Ant5-Ant1	1.090	1.093	0.438	2.62	Case 16
Ant5-Ant2	1.090	0.941	0.438	2.47	Case 17
Ant5-Ant3	1.090	1.093	0.438	2.62	Case 18
Ant5-Ant4	1.090	1.049	0.438	2.58	Case 19
Ant5-Ant6	1.090	0.536	0.438	2.06	Case 20

<Simultaneous Transmission analysis of WLAN+BT and WWAN cell-off >:

Body worn DBS only									
NO	1	2	3	4	5	6	3+5+6	1+4+5	2+4
Test Position	WLAN2.4GHz Ant7 WIFI only DBS	WLAN2.4GHz Ant8+7 WIFI only DBS	WLAN5GHz Ant 6+7 WIFI only Non DBS	WLAN5GHz Ant 6+7 WIFI only DBS	Bluetooth Ant 8 WIFI only Non DBS BT MIMO/DBS	Bluetooth Ant 7 WIFI only Non DBS BT MIMO			
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.481	0.595	0.787	0.596	0.395	0.364	1.55	1.47	1.19
Back	0.537	0.595	0.787	0.596	0.395	0.364	1.55	1.53	1.19

17.5 Product specific 10g SAR Exposure Conditions

<Simultaneous Transmission analysis of WLAN+NFC and WWAN cell-off>:

NO	3	4	3+4
Test Position	WLAN5GHz Ant 6+7 Standalone	NFC	
	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)
Front	1.470	0.000	1.47
Back	1.013	0.055	1.07
Left Side	0.097	0.000	0.10
Right Side	1.882	0.000	1.88
Top Side	2.393	0.000	2.39
Bottom Side	0.051	0.000	0.05

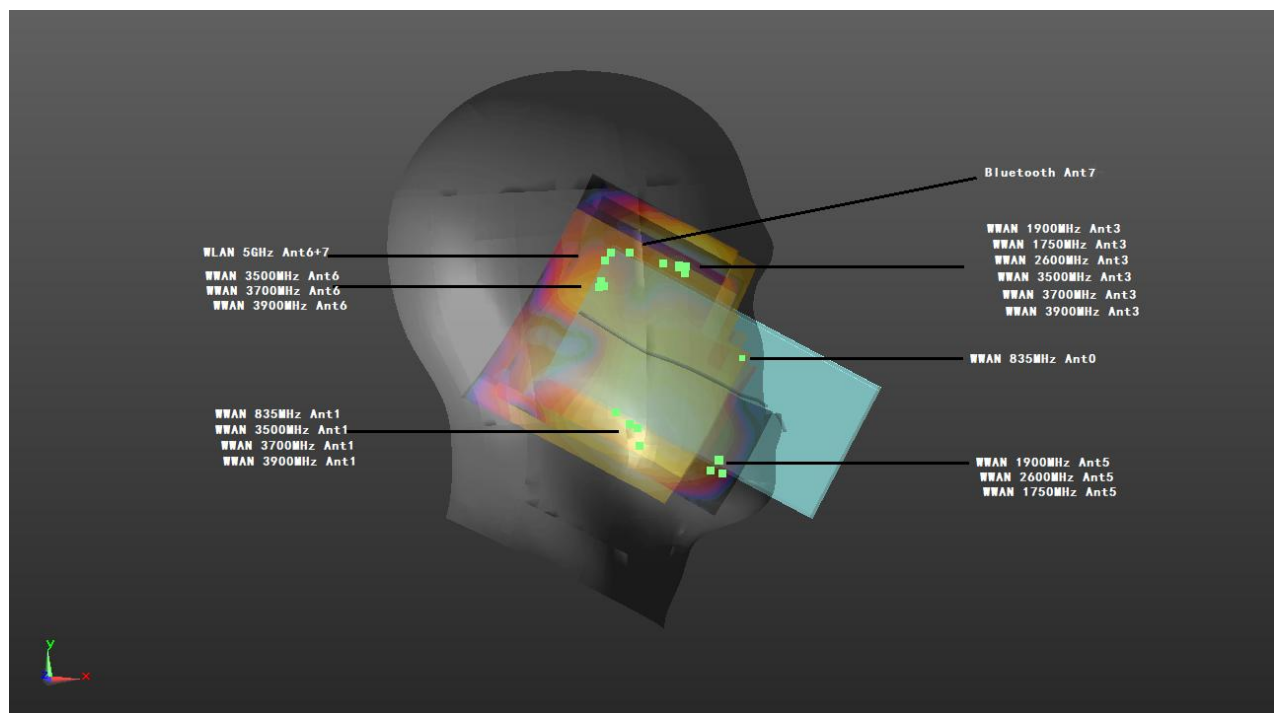
Remark:

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

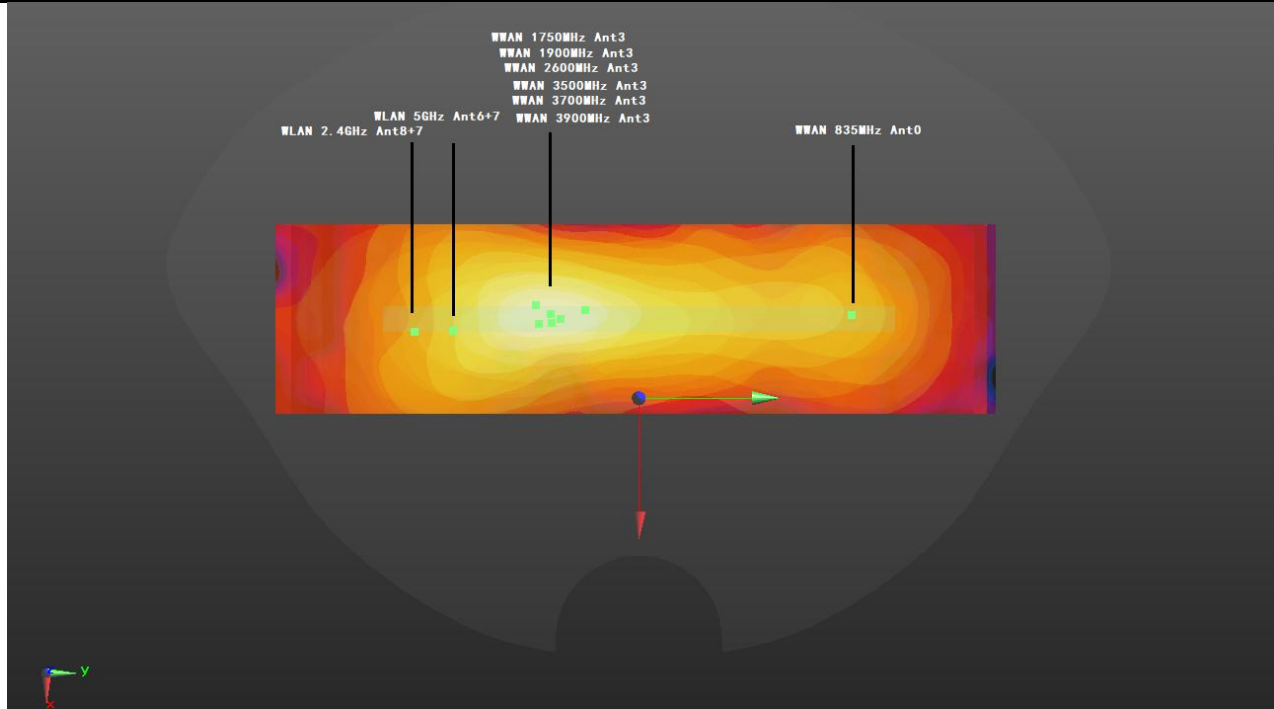
17.6 SPLSR Evaluation and Analysis

General Note:

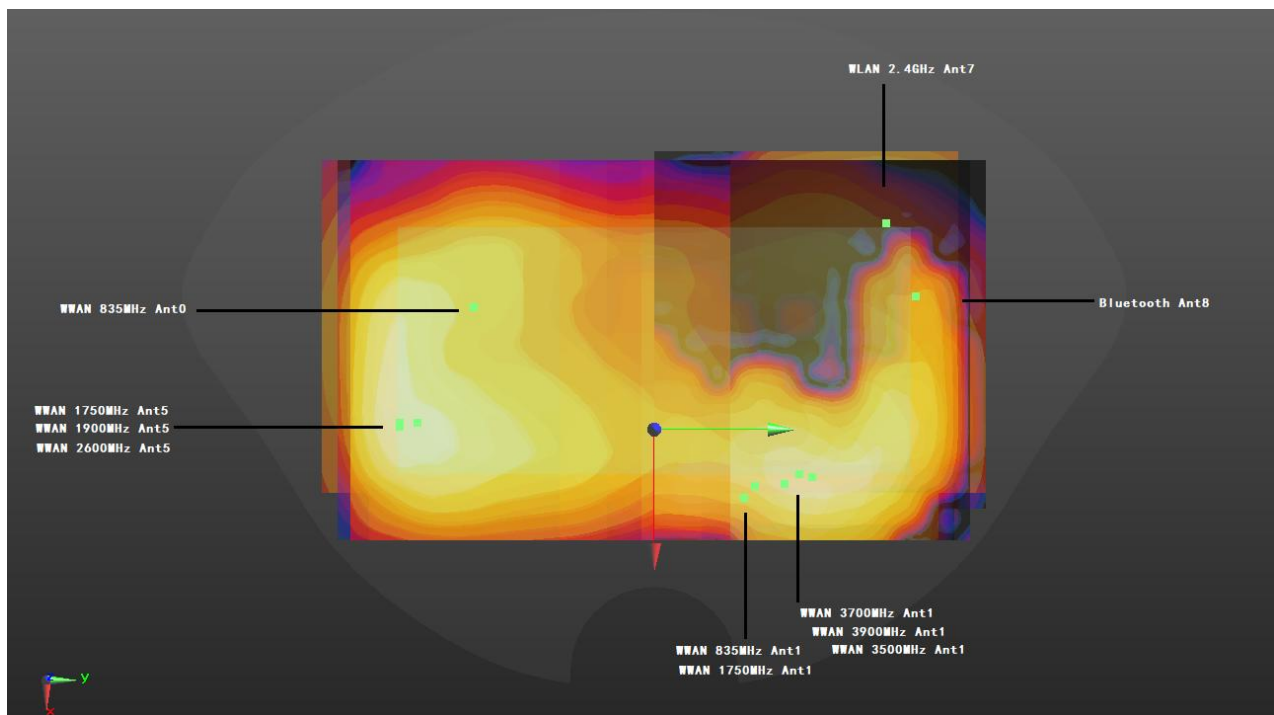
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, WLAN /BT/ NFC was summed algebraically with the AG0 for the purposes of hybrid SPLSR combination and they are located at the top of the device
4. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.
5. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.
6. The axis peak locations refer to Section 17.7.



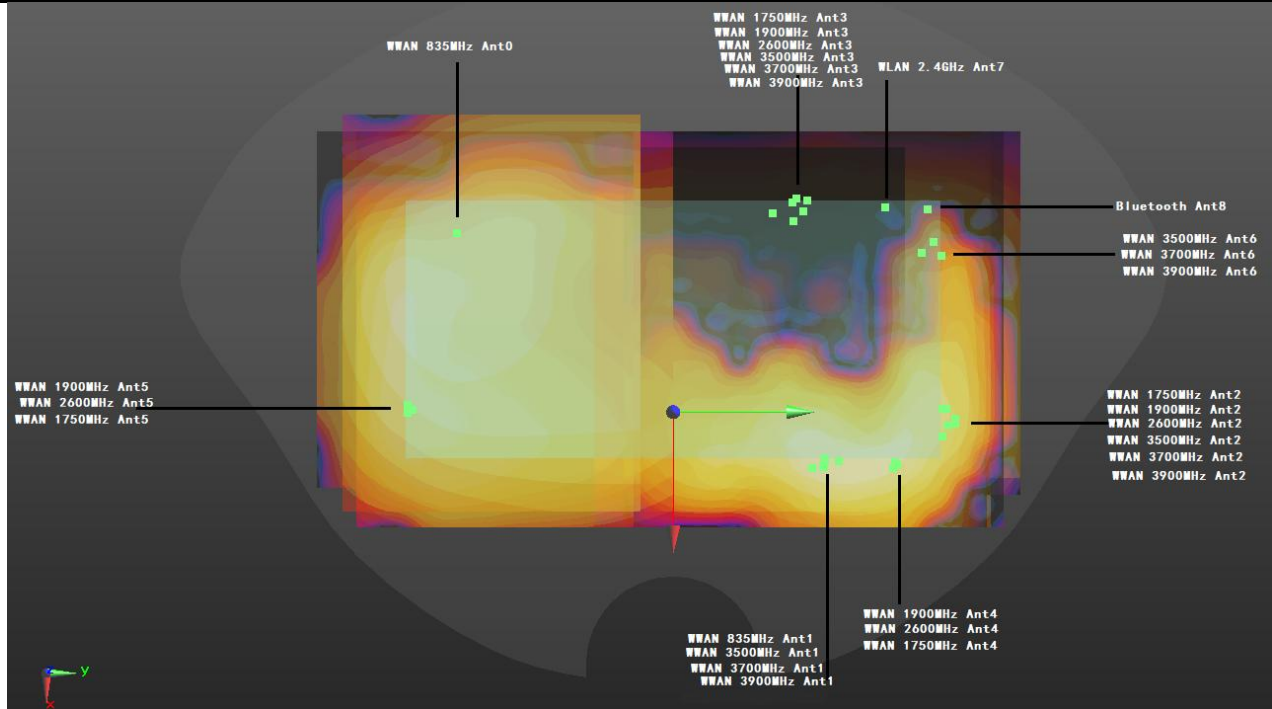
Head WWAN+WWAN+5G+BT Left Check 0mm



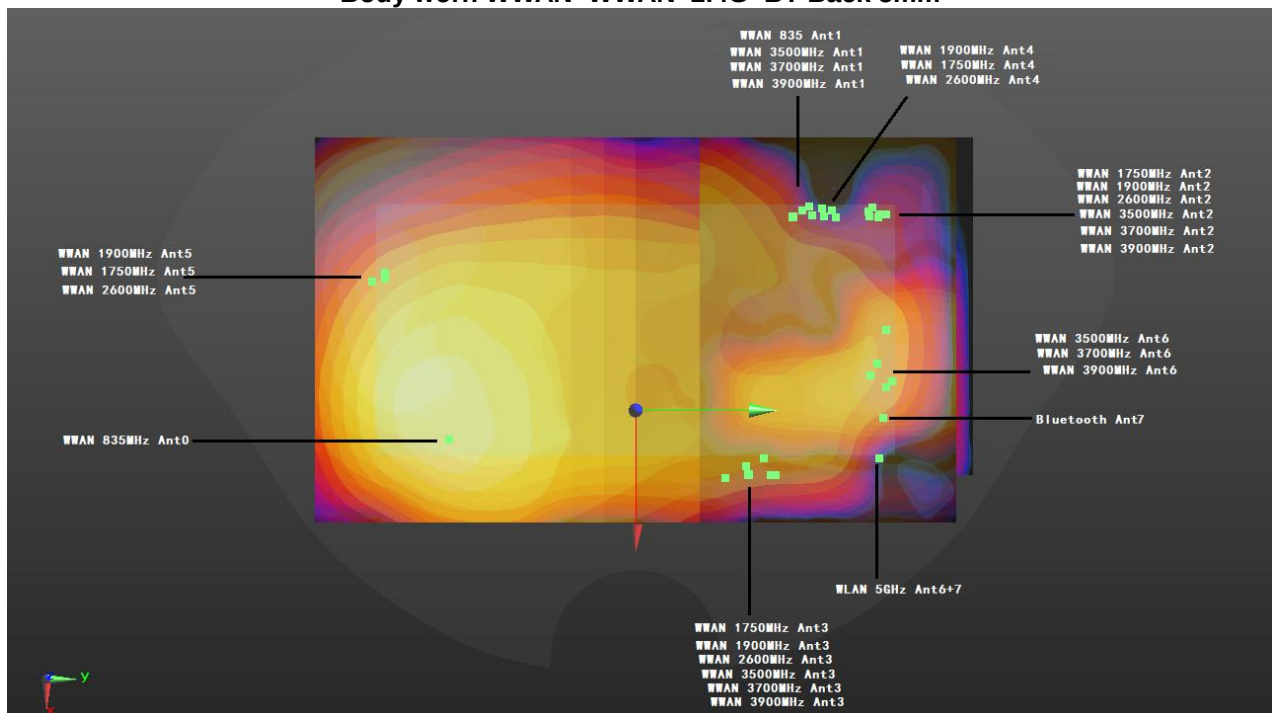
Hotspot WWAN+WWAN+2.4G+5G Right 10mm



Hotspot WWAN+WWAN+2.4G+BT Back 10mm



Body worn WWAN+WWAN+2.4G+BT Back 5mm



Body worn WWAN+WWAN+5G+BT Front 5mm

<Head>

No.1	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Left Cheek	0.318	1.462	0mm	50.61	-140.25	-2.65	103.7	1.78	0.02	Not required
Ant1		0.975		0mm	29.71	-38.92	3.62				
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm							
Ant0	Left Cheek	0.318	1.462	0mm	50.61	-140.25	-2.65	154.8	1.78	0.02	Not required
Ant1		0.975		0mm							
WLAN5GHz Ant6+7		0.242		0mm	11.59	9.51	-2.03				
Bluetooth Ant7		0.245		0mm							
Ant0	Left Cheek	0.318	1.462	0mm	50.61	-140.25	-2.65	151.9	1.78	0.02	Not required
Ant1		0.975		0mm							
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm	31.38	10.47	-1.95				
No.4	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Left Cheek	0.274	1.462	0mm	49.69	-133.66	-1.85	97.0	1.74	0.02	Not required
Ant1		0.975		0mm	29.71	-38.92	3.62				
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm							
Ant5	Left Cheek	0.274	1.462	0mm	49.69	-133.66	-1.85	148.2	1.74	0.02	Not required
Ant1		0.975		0mm							
WLAN5GHz Ant6+7		0.242		0mm	11.59	9.51	-2.03				
Bluetooth Ant7		0.245		0mm							
Ant5	Left Cheek	0.274	1.462	0mm	49.69	-133.66	-1.85	145.3	1.74	0.02	Not required
Ant1		0.975		0mm							
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm	31.38	10.47	-1.95				
No.2	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Left Cheek	0.318	1.568	0mm	50.61	-140.25	-2.65	146.2	1.89	0.02	Not required
Ant3		1.081		0mm	49.06	5.9	-1.62				
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm							
Ant0	Left Cheek	0.318	1.568	0mm	50.61	-140.25	-2.65	154.8	1.89	0.02	Not required
Ant3		1.081		0mm							
WLAN5GHz Ant6+7		0.242		0mm	11.59	9.51	-2.03				
Bluetooth Ant7		0.245		0mm							
Ant0	Left Cheek	0.318	1.568	0mm	50.61	-140.25	-2.65	151.9	1.89	0.02	Not required
Ant3		1.081		0mm							
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm	31.38	10.47	-1.95				
No.5	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Left Cheek	0.274	1.568	0mm	49.69	-133.66	-1.85	139.6	1.84	0.02	Not required
Ant3		1.081		0mm	49.06	5.9	-1.62				
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm							
Ant5	Left Cheek	0.274	1.568	0mm	49.69	-133.66	-1.85	148.2	1.84	0.02	Not required
Ant3		1.081		0mm							
WLAN5GHz Ant6+7		0.242		0mm	11.59	9.51	-2.03				
Bluetooth Ant7		0.245		0mm							
Ant5	Left Cheek	0.274	1.568	0mm	49.69	-133.66	-1.85	145.3	1.84	0.02	Not required
Ant3		1.081		0mm							



WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm	31.38	10.47	-1.95				
No.3	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Left Cheek	0.318	1.422	0mm	50.61	-140.25	-2.65	149.7	1.74	0.02	Not required
Ant6		0.935		0mm	10.98	4.1	-1.86				
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm							
Ant0	Left Cheek	0.318	1.422	0mm	50.61	-140.25	-2.65	154.8	1.74	0.01	Not required
Ant3		0.935		0mm							
WLAN5GHz Ant6+7		0.242		0mm	11.59	9.51	-2.03				
Bluetooth Ant7		0.245		0mm							
Ant0	Left Cheek	0.318	1.422	0mm	50.61	-140.25	-2.65	151.9	1.74	0.02	Not required
Ant3		0.935		0mm							
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm	31.38	10.47	-1.95				
No.6	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Left Cheek	0.274	1.422	0mm	49.69	-133.66	-1.85	143.1	1.70	0.02	Not required
Ant6		0.935		0mm	10.98	4.1	-1.86				
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm							
Ant5	Left Cheek	0.274	1.422	0mm	49.69	-133.66	-1.85	148.2	1.70	0.01	Not required
Ant3		0.935		0mm							
WLAN5GHz Ant6+7		0.242		0mm	11.59	9.51	-2.03				
Bluetooth Ant7		0.245		0mm							
Ant5	Left Cheek	0.274	1.422	0mm	49.69	-133.66	-1.85	145.3	1.70	0.02	Not required
Ant3		0.935		0mm							
WLAN5GHz Ant6+7		0.242		0mm							
Bluetooth Ant7		0.245		0mm	31.38	10.47	-1.95				

<Hotspot>

No.1	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	0.572	1.181	10mm	-15.8	-72.3	-1.69	108.8	1.75	0.02	Not required
Ant1		0.716		10mm	40.3	20.9	-1.53				
WLAN2.4GHz Ant7		0.205		10mm							
Bluetooth Ant8		0.260		10mm							
Ant0	Back	0.572	1.181	10mm	-15.8	-72.3	-1.69	145.9	1.75	0.02	Not required
Ant1		0.716		10mm							
WLAN2.4GHz Ant7		0.205		10mm	-41.5	71.3	-2.29				
Bluetooth Ant8		0.260		10mm							
Ant0	Back	0.572	1.181	10mm	-15.8	-72.3	-1.69	160.1	1.75	0.01	Not required
Ant1		0.716		10mm							
WLAN2.4GHz Ant7		0.205		10mm							
Bluetooth Ant8		0.260		10mm	-23.3	87.6	-2.18				
No.2	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Back	0.447	1.181	10mm	22.3	-73.1	-1.31	95.7	1.63	0.02	Not required
Ant1		0.716		10mm	40.3	20.9	-1.53				
WLAN2.4GHz Ant7		0.205		10mm							
Bluetooth Ant8		0.260		10mm							
Ant5	Back	0.447	1.181	10mm				82.5	1.63	0.03	Not required
Ant1		0.716		10mm							
WLAN2.4GHz Ant7		0.205		10mm	-41.5	71.3	-2.29				
Bluetooth Ant8		0.260		10mm							



Ant5	Back	0.447	0.447	10mm				90.7	1.63	0.02	Not required
Ant1		0.716	1.181	10mm							
WLAN2.4GHz Ant7		0.205		10mm							
Bluetooth Ant8		0.260		10mm	-23.3	87.6	-2.18				

No.3	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Right Side	0.345	0.345	10mm	0	50.6	-2.75	71.1	1.69	0.03	Not required
Ant3		0.848	1.340	10mm	-4	-20.4	-2.46				
WLAN5GHz Ant6+7		0.213		10mm							
WLAN2.4GHz Ant8+7		0.279		10mm							
Ant0	Right Side	0.345	0.345	10mm	0	50.6	-2.75	119.3	1.69	0.02	Not required
Ant3		0.848	1.340	10mm							
WLAN5GHz Ant6+7		0.213		10mm	4	-68.6	-1.79				
WLAN2.4GHz Ant8+7		0.279		10mm							
Ant0	Right Side	0.345	0.345	10mm	0	50.6	-2.75	109.2	1.69	0.02	Not required
Ant3		0.848	1.340	10mm							
WLAN5GHz Ant6+7		0.213		10mm							
WLAN2.4GHz Ant8+7		0.279		10mm	-0.2	-58.6	-1.95				

<Body-worn>

No.1	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	117.6	2.44	0.03	Not required
Ant1		0.958	1.382	5mm	-39.89	20.15	-2.03				
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm							
Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	151.7	2.44	0.03	Not required
Ant1		0.958	1.382	5mm							
WLAN5GHz Ant6+7		0.237		5mm	33	76.2	-1.56				
Bluetooth Ant7		0.187		5mm							
Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	152.1	2.44	0.03	Not required
Ant1		0.958	1.382	5mm							
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm	43.2	76	-1.71				
No.6	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Front	0.893	0.893	5mm	-21	-76.3	-1.86	98.3	2.28	0.03	Not required
Ant1		0.958	1.382	5mm	-39.89	20.15	-2.03				
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm							
Ant5	Front	0.893	0.893	5mm	-21	-76.3	-1.86	161.8	2.28	0.02	Not required
Ant1		0.958	1.382	5mm							
WLAN5GHz Ant6+7		0.237		5mm	33	76.2	-1.56				
Bluetooth Ant7		0.187		5mm							
Ant5	Front	0.893	0.893	5mm	-21	-76.3	-1.86	165.3	2.28	0.02	Not required
Ant1		0.958	1.382	5mm							
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm	43.2	76	-1.71				
No.2	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	141.6	2.33	0.03	Not required
Ant2		0.850	1.274	5mm	-28	54.4	-2.32				
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm							



FCC SAR Test Report

Report No. : FA5N1302

Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	151.7	2.33	0.02	Not required
Ant2		0.850	1.274	5mm							
WLAN5GHz Ant6+7		0.237		5mm	33	76.2	-1.56				
Bluetooth Ant7		0.187		5mm							
Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	152.1	2.33	0.02	Not required
Ant2		0.850	1.274	5mm							
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm	43.2	76	-1.71				
No.7	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Front	0.893	0.893	5mm	-18.3	-76	-1.75	130.8	2.17	0.02	Not required
Ant2		0.850	1.274	5mm	-28	54.4	-2.32				
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm							
Ant5	Front	0.893	0.893	5mm	-18.3	-76	-1.75	160.6	2.17	0.02	Not required
Ant2		0.850	1.274	5mm							
WLAN5GHz Ant6+7		0.237		5mm	33	76.2	-1.56				
Bluetooth Ant7		0.187		5mm							
Ant5	Front	0.893	0.893	5mm	-18.3	-76	-1.75	164.0	2.17	0.02	Not required
Ant2		0.850	1.274	5mm							
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm	43.2	76	-1.71				
No.3	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	1.055	1.055	5mm	37.2	-75.8	-1.64	113.9	2.45	0.03	Not required
Ant3		0.974	1.398	5mm	40.4	38.1	-1.41				
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm							
Ant0	Front	1.055	1.055	5mm	37.2	-75.8	-1.64	152.1	2.45	0.03	Not required
Ant3		0.974	1.398	5mm							
WLAN5GHz Ant6+7		0.237		5mm	33	76.2	-1.56				
Bluetooth Ant7		0.187		5mm							
Ant0	Front	1.055	1.055	5mm	37.2	-75.8	-1.64	151.9	2.45	0.03	Not required
Ant3		0.974	1.398	5mm							
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm	43.2	76	-1.71				
No.8	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Front	0.893	0.893	5mm	-18.3	-76	-1.75	127.4	2.29	0.03	Not required
Ant3		0.974	1.398	5mm	38.3	38.1	-1.75				
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm							
Ant5	Front	0.893	0.893	5mm	-18.3	-76	-1.75	160.6	2.29	0.02	Not required
Ant3		0.974	1.398	5mm							
WLAN5GHz Ant6+7		0.237		5mm	33	76.2	-1.56				
Bluetooth Ant7		0.187		5mm							
Ant5	Front	0.893	0.893	5mm	-18.3	-76	-1.75	164.0	2.29	0.02	Not required
Ant3		0.974	1.398	5mm							
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm	43.2	76	-1.71				
No.4	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	155.4	2.56	0.03	Not required
Ant4		1.083	1.507	5mm	-37.6	65.1	-2.12				
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm							



FCC SAR Test Report

Report No. : FA5N1302

Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	151.7	2.56	0.03	Not required
Ant4		1.083	1.507	5mm							
WLAN5GHz Ant6+7		0.237		5mm	33	76.2	-1.56				
Bluetooth Ant7		0.187		5mm							
Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	152.1	2.56	0.03	Not required
Ant4		1.083	1.507	5mm							
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm	43.2	76	-1.71				
No.9	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Front	0.893	0.893	5mm	-21	-76.3	-1.86	141.9	2.40	0.03	Not required
Ant4		1.083	1.507	5mm	-39.6	64.4	-2.48				
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm							
Ant5	Front	0.893	0.893	5mm	-21	-76.3	-1.86	161.8	2.40	0.02	Not required
Ant4		1.083	1.507	5mm							
WLAN5GHz Ant6+7		0.237		5mm	33	76.2	-1.56				
Bluetooth Ant7		0.187		5mm							
Ant5	Front	0.893	0.893	5mm	-21	-76.3	-1.86	165.3	2.40	0.02	Not required
Ant4		1.083	1.507	5mm							
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm	43.2	76	-1.71				
No.5	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	145.2	1.90	0.02	Not required
Ant6		0.419	0.843	5mm	-5	65.8	-2.05				
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm							
Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	151.7	1.90	0.02	Not required
Ant6		0.419	0.843	5mm							
WLAN5GHz Ant6+7		0.237		5mm	33	76.2	-1.56				
Bluetooth Ant7		0.187		5mm							
Ant0	Front	1.055	1.055	5mm	28.7	-75.4	-1.66	152.1	1.90	0.02	Not required
Ant6		0.419	0.843	5mm							
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm	43.2	76	-1.71				
No.10	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Front	0.893	0.893	5mm	-18.3	-76	-1.75	142.4	1.74	0.02	Not required
Ant6		0.419	0.843	5mm	-5	65.8	-2.05				
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm							
Ant5	Front	0.893	0.893	5mm	-18.3	-76	-1.75	160.6	1.74	0.01	Not required
Ant6		0.419	0.843	5mm							
WLAN5GHz Ant6+7		0.237		5mm	33	76.2	-1.56				
Bluetooth Ant7		0.187		5mm							
Ant5	Front	0.893	0.893	5mm	-18.3	-76	-1.75	164.0	1.74	0.01	Not required
Ant6		0.419	0.843	5mm							
WLAN5GHz Ant6+7		0.237		5mm							
Bluetooth Ant7		0.187		5mm	43.2	76	-1.71				



No.11	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.090	1.531	5mm	-16.5	-70.3	-1.81	128.1	2.62	0.03	Not required
Ant1		1.093		5mm	45.9	41.6	-1.82				
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm							
Ant0	Back	1.090	1.531	5mm	-16.5	-70.3	-1.81	144.5	2.62	0.03	Not required
Ant0		1.093		5mm							
WLAN2.4GHz Ant 7		0.212		5mm	-41.4	72	-2.32				
Bluetooth Ant8		0.226		5mm							
Ant0	Back	1.090	1.531	5mm	-16.5	-70.3	-1.81	158.5	2.62	0.03	Not required
Ant1		1.093		5mm							
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm	-23.6	88	-2.19				
No.16	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Back	1.090	1.531	5mm	19.6	-78	-3.79	122.5	2.62	0.03	Not required
Ant1		1.093		5mm	45.9	41.6	-1.82				
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm							
Ant5	Back	1.090	1.531	5mm	19.6	-78	-3.79	161.9	2.62	0.03	Not required
Ant1		1.093		5mm							
WLAN2.4GHz Ant 7		0.212		5mm	-41.4	72	-2.32				
Bluetooth Ant8		0.226		5mm							
Ant5	Back	1.090	1.531	5mm	19.6	-78	-3.79	171.5	2.62	0.02	Not required
Ant1		1.093		5mm							
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm	-23.6	88	-2.19				
No.12	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.090	1.379	5mm	-16.5	-70.3	-1.81	147.8	2.47	0.03	Not required
Ant2		0.941		5mm	26.8	71	-1.58				
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm							
Ant0	Back	1.090	1.379	5mm	-16.5	-70.3	-1.81	144.5	2.47	0.03	Not required
Ant2		0.941		5mm							
WLAN2.4GHz Ant 7		0.212		5mm	-41.4	72	-2.32				
Bluetooth Ant8		0.226		5mm							
Ant0	Back	1.090	1.379	5mm	-16.5	-70.3	-1.81	158.5	2.47	0.02	Not required
Ant2		0.941		5mm							
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm	-23.6	88	-2.19				
No.17	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Back	1.090	1.379	5mm	19.6	-78	-3.79	148.8	2.47	0.03	Not required
Ant2		0.941		5mm	34.5	70	-1.54				
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm							
Ant5	Back	1.090	1.379	5mm	19.6	-78	-3.79	161.9	2.47	0.02	Not required
Ant2		0.941		5mm							
WLAN2.4GHz Ant 7		0.212		5mm	-41.4	72	-2.32				
Bluetooth Ant8		0.226		5mm							
Ant5	Back	1.090	1.379	5mm	19.6	-78	-3.79	171.5	2.47	0.02	Not required
Ant2		0.941		5mm							
WLAN2.4GHz Ant 7	Back	0.212		5mm							



FCC SAR Test Report

Report No. : FA5N1302

Bluetooth Ant8		0.226		5mm	-23.6	88	-2.19				
No.13	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.090	1.090	5mm	-18.1	-70.3	-1.81	106.3	2.62	0.04	Not required
Ant3		1.093	1.531	5mm	-38.4	34	-2.39				
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm							
Ant0	Back	1.090	1.090	5mm	-18.1	-70.3	-1.81	144.2	2.62	0.03	Not required
Ant3		1.093	1.531	5mm							
WLAN2.4GHz Ant 7		0.212		5mm	-41.4	72	-2.32				
Bluetooth Ant8		0.226		5mm							
Ant0	Back	1.090	1.090	5mm	-18.1	-70.3	-1.81	158.4	2.62	0.03	Not required
Ant3		1.093	1.531	5mm							
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm	-23.6	88	-2.19				
No.18	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Back	1.090	1.090	5mm	19.6	-78	-3.79	126.1	2.62	0.03	Not required
Ant3		1.093	1.531	5mm	-38.4	34	-2.39				
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm							
Ant5	Back	1.090	1.090	5mm	19.6	-78	-3.79	161.9	2.62	0.03	Not required
Ant3		1.093	1.531	5mm							
WLAN2.4GHz Ant 7		0.212		5mm	-41.4	72	-2.32				
Bluetooth Ant8		0.226		5mm							
Ant5	Back	1.090	1.090	5mm	19.6	-78	-3.79	171.5	2.62	0.02	Not required
Ant3		1.093	1.531	5mm							
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm	-23.6	88	-2.19				
No.14	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.090	1.090	5mm	-16.5	-70.3	-1.81	142.3	2.58	0.03	Not required
Ant4		1.049	1.487	5mm	41.2	59.8	-1.59				
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm							
Ant0	Back	1.090	1.090	5mm	-16.5	-70.3	-1.81	144.5	2.58	0.03	Not required
Ant4		1.049	1.487	5mm							
WLAN2.4GHz Ant 7		0.212		5mm	-41.4	72	-2.32				
Bluetooth Ant8		0.226		5mm							
Ant0	Back	1.090	1.090	5mm	-16.5	-70.3	-1.81	158.5	2.58	0.03	Not required
Ant4		1.049	1.487	5mm							
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm	-23.6	88	-2.19				
No.19	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Back	1.090	1.090	5mm	19.6	-78	-3.79	139.5	2.58	0.03	Not required
Ant4		1.049	1.487	5mm	41.2	59.8	-1.59				
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm							
Ant5	Back	1.090	1.090	5mm	19.6	-78	-3.79	161.9	2.58	0.03	Not required
Ant4		1.049	1.487	5mm							
WLAN2.4GHz Ant 7		0.212		5mm	-41.4	72	-2.32				
Bluetooth Ant8		0.226		5mm							
Ant5	Back	1.090	1.090	5mm	19.6	-78	-3.79	171.5	2.58	0.02	Not required
Ant4		1.049	1.487	5mm							
WLAN2.4GHz Ant 7		0.212		5mm							



FCC SAR Test Report

Report No. : FA5N1302

Bluetooth Ant8		0.226		5mm	-23.6	88	-2.19				
No.15	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant0	Back	1.090	1.090	5mm	-16.5	-70.3	-1.81	130.5	2.06	0.02	Not required
Ant6		0.536	0.974	5mm	-15	60.2	-2.45				
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm							
Ant0	Back	1.090	1.090	5mm	-16.5	-70.3	-1.81	144.5	2.06	0.02	Not required
Ant6		0.536	0.974	5mm							
WLAN2.4GHz Ant 7		0.212		5mm	-41.4	72	-2.32				
Bluetooth Ant8		0.226		5mm							
Ant0	Back	1.090	1.090	5mm	-16.5	-70.3	-1.81	158.5	2.06	0.02	Not required
Ant6		0.536	0.974	5mm							
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm	-23.6	88	-2.19				
No.20	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant5	Back	1.090	1.090	5mm	19.6	-78	-3.79	142.5	2.06	0.02	Not required
Ant6		0.536	0.974	5mm	-15	60.2	-2.45				
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm							
Ant5	Back	1.090	1.090	5mm	19.6	-78	-3.79	161.9	2.06	0.02	Not required
Ant6		0.536	0.974	5mm							
WLAN2.4GHz Ant 7		0.212		5mm	-41.4	72	-2.32				
Bluetooth Ant8		0.226		5mm							
Ant5	Back	1.090	1.090	5mm	19.6	-78	-3.79	171.5	2.06	0.02	Not required
Ant6		0.536	0.974	5mm							
WLAN2.4GHz Ant 7		0.212		5mm							
Bluetooth Ant8		0.226		5mm	-23.6	88	-2.19				

17.7 Maximum Reported SAR and SAR Peak Locations

General Note:

1. The maximum reported SAR and SAR Peak Locations corresponding to each position of each frequency band of each antenna in the below tables are as follows.
2. The unit of SAR evaluation is W/kg. The unit of x, y, z with Axis evaluation is mm.

<Head >

Left Cheek														
Band		Ant 0			Ant 5			Ant 1			Ant 3			Ant 6
GSM850	SAR (W/kg)	0.208						0.624						
	Axis	51.69	-141.16	-2.76				28.65	-32.31	-0.1				
GSM1900	SAR (W/kg)										0.714			
	Axis										56.91	10.57	-0.27	
WCDMA II	SAR (W/kg)										0.979			
	Axis										58.44	10.23	0.54	
WCDMA IV	SAR (W/kg)										0.363			
	Axis										57.29	10.25	0.29	
WCDMA V	SAR (W/kg)	0.318						0.934						
	Axis	50.61	-140.25	-2.65				33.1	-34.3	1				
LTE Band 2	SAR (W/kg)				0.117						0.688			
	Axis				55.01	-140.3	0.52				56.85	9.57	-0.23	
LTE Band 7	SAR (W/kg)				0.233						0.816			
	Axis				50.23	-140.96	-1.85				56.71	9.84	-0.53	
LTE Band 26(5)	SAR (W/kg)	0.247						0.905						
	Axis	49.89	-141.03	-2.61				31.38	-36.57	2.17				
LTE Band 66(4)	SAR (W/kg)				0.174						1.051			
	Axis				53.25	-138.3	0.35				55.48	10.31	-0.46	
LTE Band 41(38)	SAR (W/kg)				0.132						0.565			
	Axis				49.69	-133.66	-1.85				55.99	10.51	-0.61	
LTE Band 42	SAR (W/kg)							0.218			0.672			0.254
	Axis							19.76	-35.55	2.57	50.05	11.29	-1.59	9.37 7.35 -2.19
LTE Band 48	SAR (W/kg)							0.165			0.378			0.208
	Axis							20.35	-38.8	2.58	51.05	9.05	-1.63	10.35 8.6 -2.52
FR1 n2	SAR (W/kg)				0.114						0.977			
	Axis				55.03	-139.8	0.48				55.83	11.05	-0.21	
FR1 n5	SAR (W/kg)	0.187						0.975						
	Axis	50.35	-141.08	-2.65				29.71	-38.92	3.62				
FR1 n7	SAR (W/kg)				0.258						0.945			
	Axis				50	-135.33	-1.75				57.64	11.05	-0.33	
FR1 n41(38)	SAR (W/kg)				0.274						0.914			
	Axis				49.98	-135.11	-1.76				58.8	9.46	-0.09	
FR1 n48	SAR (W/kg)							0.193			0.472			0.431
	Axis							20.81	-35	2.51	49.15	10.05	-1.65	12.41 6.98 -2.42
FR1 n66	SAR (W/kg)				0.136						1.047			
	Axis				51.35	-135.2	0.35				56.07	10.39	-0.43	
FR1 n77	SAR (W/kg)							0.284			0.838			0.935
	Axis							21.3	-37	2.58	49.06	5.9	-1.62	13.25 5.05 -2.05
FR1 n77 HPUE	SAR (W/kg)										0.702			0.801
	Axis										50.09	10.31	-1.61	10.98 4.1 -1.86
FR1 n78	SAR (W/kg)							0.278			0.995			0.703
	Axis							21.5	-39.5	2.59	46.96	9.13	-1.92	12.25 5.12 -1.91
FR1 n78 HPUE	SAR (W/kg)										1.081			0.846
	Axis										48.59	10.15	-1.83	12.35 5.06 -1.89
WLAN5GHz Ant6+7	SAR (W/kg)	0.242				Bluetooth Ant7	SAR (W/kg)	0.245						
	Axis	11.59	9.51	-2.03			Axis	31.38	10.47	-1.95				

<Hotspot>

Back 10mm									
Band		Ant 0			Ant 5			Ant 1	
GSM850	SAR (W/kg)	0.400						0.716	
	Axis	-15.8	-73.5	-1.75				43.5	22.3 -1.65
GSM1900	SAR (W/kg)								
	Axis								
WCDMA II	SAR (W/kg)								
	Axis								
WCDMA IV	SAR (W/kg)								
	Axis								
WCDMA V	SAR (W/kg)	0.544						0.652	
	Axis	-17.9	-75.2	-1.71				40.6	22.7 -1.65
LTE Band 2	SAR (W/kg)				0.310				
	Axis				18.7	-79.5	-1.61		
LTE Band 7	SAR (W/kg)				0.309				
	Axis				19.8	-79	-1.48		
LTE Band 26(5)	SAR (W/kg)	0.530						0.430	
	Axis	-15.8	-72.3	-1.69				40.3	20.9 -1.53
LTE Band 66(4)	SAR (W/kg)				0.447				
	Axis				18.5	-85.1	-1.63		
LTE Band 41(38)	SAR (W/kg)				0.318				
	Axis				20.3	-77.8	-3.81		
LTE Band 42	SAR (W/kg)							0.149	
	Axis							45.3	47.6 -1.61
LTE Band 48	SAR (W/kg)							0.161	
	Axis							42.5	47.3 -1.71
FR1 n2	SAR (W/kg)				0.222				
	Axis				21.7	-77.3	-1.32		
FR1 n5	SAR (W/kg)	0.572						0.605	
	Axis	-15.8	-72.6	-1.4				44.3	23.2 -1.51
FR1 n7	SAR (W/kg)				0.259				
	Axis				22.3	-73.1	-1.31		
FR1 n41(38)	SAR (W/kg)				0.399				
	Axis				19.8	-80.3	-1.41		
FR1 n48	SAR (W/kg)							0.167	
	Axis							38.1	46.3 -1.61
FR1 n66	SAR (W/kg)				0.316				
	Axis				24.8	-79.8	-1.41		
FR1 n77	SAR (W/kg)							0.088	
	Axis							39.5	45.3 -1.6
FR1 n77 HPUE	SAR (W/kg)								
	Axis								
FR1 n78	SAR (W/kg)							0.122	
	Axis							36.7	41.2 -1.65
FR1 n78 HPUE	SAR (W/kg)								
	Axis								
WLAN2.4GHz Ant7	SAR (W/kg)	0.205			Bluetooth Ant8	SAR (W/kg)		0.26	
	Axis	-41.5	71.3	-2.29		Axis		-23.3	87.6 -2.18

Right Side 10mm								
Band		Ant 0			Ant 3			
GSM850	SAR (W/kg)	0.221						
	Axis	3	55.8	-2.05				
GSM1900	SAR (W/kg)				0.585			
	Axis				0	-28.4	-2.15	
WCDMA II	SAR (W/kg)				0.563			
	Axis				1.5	-28.4	-5.41	
WCDMA IV	SAR (W/kg)				0.173			
	Axis				1.5	-29.9	-5.43	
WCDMA V	SAR (W/kg)	0.318						
	Axis	4	55.1	2.03				
LTE Band 2	SAR (W/kg)				0.377			
	Axis				0.1	-41.5	-2.14	
LTE Band 7	SAR (W/kg)				0.432			
	Axis				1.5	-21.8	-2.09	
LTE Band 26(5)	SAR (W/kg)	0.254						
	Axis	0.4	53.4	-2.76				
LTE Band 66(4)	SAR (W/kg)				0.461			
	Axis				1	-25.3	-2.31	
LTE Band 41(38)	SAR (W/kg)				0.427			
	Axis				-3.8	-25.3	-2.15	
LTE Band 42	SAR (W/kg)				0.254			
	Axis				-2	-25.9	-2.01	
LTE Band 48	SAR (W/kg)				0.317			
	Axis				-3.2	-26	-2.32	
FR1 n2	SAR (W/kg)				0.390			
	Axis				-1.5	-28	-2.31	
FR1 n5	SAR (W/kg)	0.345						
	Axis	0	50.6	-2.75				
FR1 n7	SAR (W/kg)				0.478			
	Axis				2.2	-28.4	-2.05	
FR1 n41(38)	SAR (W/kg)				0.482			
	Axis				0	-25.8	-2.34	
FR1 n48	SAR (W/kg)				0.357			
	Axis				-0.2	-27.6	-2.3	
FR1 n66	SAR (W/kg)				0.139			
	Axis				-4.5	-34.1	-2.06	
FR1 n77	SAR (W/kg)				0.848			
	Axis				-4	-20.4	-2.46	
FR1 n77 HPUE	SAR (W/kg)				0.837			
	Axis				-5	-21.3	-2.51	
FR1 n78	SAR (W/kg)				0.352			
	Axis				-0.2	-20.6	-2.41	
FR1 n78 HPUE	SAR (W/kg)				0.332			
	Axis				-1	-25.3	-2.35	

WLAN5GHz Ant6+7	SAR (W/kg)	0.213			WLAN2.4GHz Ant8+7	SAR (W/kg)	0.279		
	Axis	4	-68.6	-1.79		Axis	-0.2	-58.6	-1.95



<Body worn>

Front 5mm																					
Band		Ant 0			Ant 5			Ant 1			Ant 2			Ant 3			Ant 4			Ant 6	
GSM850	SAR (W/kg)	0.719							0.958												
	Axis	37.2	-75.8	-1.64					-39.59	20.8	-2.35										
GSM1900	SAR (W/kg)												0.699		0.515						
	Axis												-25	60.1	-2.01	40.21	40.8	-1.51			
WCDMA II	SAR (W/kg)												0.584		0.873						
	Axis												-23	59.9	-2.06	43.8	41.8	-1.38			
WCDMA IV	SAR (W/kg)												0.628		0.240						
	Axis												-22	62.1	-2.03	38.9	39.6	-1.61			
WCDMA V	SAR (W/kg)	0.925							0.951												
	Axis	29.2	-76.9	-1.59					-40.12	20.3	-2.05										
LTE Band 2	SAR (W/kg)				0.893							0.622		0.722		0.531					
	Axis				-18.2	-78.8	-1.85					-20	58.5	-1.56	46.6	41.9	-1.65	40.5	69	-2.16	
LTE Band 7	SAR (W/kg)				0.734							0.290		0.678		0.585					
	Axis				-20	-78.7	-1.85					-21	58.3	-1.59	40.4	38.1	-1.41	39.6	64.4	-2.48	
LTE Band 26(5)	SAR (W/kg)	1.055							0.808												
	Axis	28.7	-75.4	-1.66					-40.2	20.6	-2.58										
LTE Band 66(4)	SAR (W/kg)				0.718							0.517		0.695		0.679					
	Axis				-19.5	-79.3	-1.91					-28	54.4	-2.32	46.5	40.3	-1.59	39.8	67.4	-2.08	
LTE Band 41(38)	SAR (W/kg)				0.402							0.334		0.502		0.369					
	Axis				-18	-78	-1.99					-25	61.4	-2.02	43.2	38.4	-2.06	39.6	64.4	-2.48	
LTE Band 42	SAR (W/kg)								0.321			0.549		0.267						0.115	
	Axis								-39.8	36.8	-2.1	-28	59	-2.05	42	38	-2.12		8	78	-2.06
LTE Band 48	SAR (W/kg)								0.438			0.373		0.231						0.114	
	Axis								-40.8	37.5	-2.3	-30	59.8	-2	41	38	-2.21		10	77.2	-2.01
FR1 n2	SAR (W/kg)				0.797							0.533		0.743		1.083					
	Axis				-19.3	-78.1	-1.81					-28	61.3	-1.98	46.3	41	-1.83	40.8	68.5	-2.09	
FR1 n5	SAR (W/kg)	0.953							0.841												
	Axis	29.13	-75.5	-1.63					-39.89	20.15	-2.03										
FR1 n7	SAR (W/kg)				0.675							0.850		0.721		0.429					
	Axis				-18	-78.4	-1.95					-25	60.5	-1.76	41	38.7	-2.01	38.2	66.2	-2.01	
FR1 n41(38)	SAR (W/kg)				0.745							0.575		0.804		0.421					
	Axis				-21	-76.3	-1.86					-24	61.2	-1.82	44.8	39.8	-2.04	37.6	65.1	-2.12	
FR1 n48	SAR (W/kg)								0.584			0.307		0.235						0.168	
	Axis								-40.3	37.1	-2.05	-26	61.9	-1.81	45.5	41.5	-1.81		-9.4	71.2	-1.96
FR1 n66	SAR (W/kg)				0.806							0.583		0.699		0.568					
	Axis				-18.3	-76	-1.75					-29	62	-2.21	38.5	38.6	-1.75	38.7	66.3	-2.01	
FR1 n77	SAR (W/kg)								0.858			0.499		0.742						0.419	
	Axis								-39.8	45	-2.32	-30	63	-2.05	39.4	38.9	-1.81		3	71.5	-1.85
FR1 n77 HPUE	SAR (W/kg)								0.789										0.403		
	Axis								-40.5	39	-2.35								5	69.5	-1.75
FR1 n78	SAR (W/kg)								0.669			0.429		0.974						0.249	
	Axis								-40.8	47.6	-2.3	-31	64	-2.03	38.3	38.1	-1.75		8	71.3	-2.01
FR1 n78 HPUE	SAR (W/kg)																			0.311	
	Axis																			-5	65.8
WLAN5GHz Ant6+7	SAR (W/kg)	0.237				Bluetooth Ant7	SAR (W/kg)	0.187													
	Axis	33	76.2	-1.56			Axis	43.2	76	-1.71											



Back 5mm																					
Band		Ant 0			Ant 5			Ant 1			Ant 2			Ant 3			Ant 4			Ant 6	
GSM850	SAR (W/kg)	0.776						1.071													
	Axis	-16.5	-70.3	-1.81				44.8	43.5	-1.83											
GSM1900	SAR (W/kg)										0.941			0.683							
	Axis										24.2	73.9	-1.62	-46.3	42.3	-1.93					
WCDMA II	SAR (W/kg)										0.932			1.084							
	Axis										28.6	72.4	-1.63	-42.5	42.5	-1.95					
WCDMA IV	SAR (W/kg)										0.887			0.360							
	Axis										31.7	75.5	-1.59	-42.1	40.9	-1.89					
WCDMA V	SAR (W/kg)	1.033						1.093													
	Axis	-18.1	-70.3	-1.81				44.8	43.8	-1.82											
LTE Band 2	SAR (W/kg)				1.069						0.876			1.093			0.481				
	Axis				19.7	-80.4	-1.77				28.5	73.9	-1.59	-38.9	38.8	-2.36	43	68.9	-1.85		
LTE Band 7	SAR (W/kg)				1.053						0.489			1.055			0.867				
	Axis				20.2	-79	-1.48				32.6	71.6	-1.52	-38.4	34	-2.39	41.2	59.8	-1.59		
LTE Band 26(5)	SAR (W/kg)	1.055						0.839													
	Axis	-16	-73.6	-1.77				45.9	41.6	-1.82											
LTE Band 66(4)	SAR (W/kg)				0.663						0.708			0.940			0.865				
	Axis				17.5	-81.5	-1.73				34.5	70	-1.54	-40.5	40.4	-2.39	42.1	67.4	-1.59		
LTE Band 41(38)	SAR (W/kg)				0.815						0.563			0.845			0.578				
	Axis				19.6	-78	-3.79				30.1	78.9	-1.64	-40.3	36.9	-4.71	40.3	64.6	-3.93		
LTE Band 42	SAR (W/kg)							0.389			0.906			0.593						0.230	
	Axis							40.2	47	-1.75	26.8	71.8	-1.59	-29.9	43.8	-2.31			-15	60.2	-2.45
LTE Band 48	SAR (W/kg)							0.588			0.736			0.814						0.133	
	Axis							38.6	46	-1.77	26.8	71	-1.58	-30.5	43	-2.25			-15.4	60.3	-2.51
FR1 n2	SAR (W/kg)				1.090						0.754			0.954			1.049				
	Axis				21.8	-79.4	-1.42				31.7	72.3	-1.48	-38	41.9	-1.65	44	69.8	-1.95		
FR1 n5	SAR (W/kg)	1.090						0.956													
	Axis	-15	-75.3	-1.5				44.9	45.3	-1.58											
FR1 n7	SAR (W/kg)				0.854						0.786			0.980			0.646				
	Axis				21.8	-79.4	-1.42				29	80.6	-1.49	-38.4	37	-2.33	39.2	60.8	-1.6		
FR1 n41(38)	SAR (W/kg)				0.906						0.939			0.955			0.680				
	Axis				20.8	-78.8	-1.35				29	81.8	-1.55	-38.6	36.2	-2.27	41.4	63	-1.49		
FR1 n48	SAR (W/kg)							1.028			0.592			1.027						0.203	
	Axis							39.2	47.4	-1.74	27.4	80.8	-1.62	-29.4	43.6	-2.41			-3.9	70.9	-2.81
FR1 n66	SAR (W/kg)				1.011						0.919			1.018			0.780				
	Axis				24.1	-81.1	-1.35				28.5	81	-1.31	-43.5	45	-2.13	34.5	70	-1.54		
FR1 n77	SAR (W/kg)							0.617			0.765			1.023						0.536	
	Axis							40.6	46.8	-1.8	30.8	78.6	-2.57	-38.4	48.8	-2.38			-3.2	71.4	-2.94
FR1 n77 HPUE	SAR (W/kg)													0.921						0.423	
	Axis													-40	49.1	-2.39			-4	72.5	-2.91
FR1 n78	SAR (W/kg)							1.019			0.745			1.063						0.345	
	Axis							39.8	45	-1.87	25	71.8	-1.71	-30.8	42	-2.43			-4.3	70.9	-3.51
FR1 n78 HPUE	SAR (W/kg)							1.068			0.743			1.064						0.421	
	Axis							40.3	46	-1.93	26	72.3	-1.69	-31.9	43.8				-4.5	70.3	-3.45
WLAN2.4GHz Ant 7	SAR (W/kg)	0.212				Bluetooth Ant8	SAR (W/kg)	0.226													
	Axis	-41.4	72	-2.32			Axis	-23.6	88	-2.19											

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18. 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.

19. 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 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [14] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015

Appendixes

Please refer to separated files for the following appendixes

Appendix A. Plots of System Performance Check

Appendix B. Plots of High SAR Measurement

Appendix C. DASY Calibration Certificate

Appendix D. Test Setup Photos

Appendix E. Conducted RF Output Power Table

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

Appendix G. Power reduction mechanism verification

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