

# FCC SAR Test Report

APPLICANT : Motorola Mobility LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : XT2205-1, XT2205-2  
FCC ID : IHDT56AE7  
STANDARD : FCC 47 CFR Part 2 (2.1093)

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

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



Approved by: Si Zhang

**Sporton International Inc. (Kunshan)**

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People's Republic of China



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### 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2205-1, XT2205-2**, are as follows.

Highest 1g SAR Summary							
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)	
			1g SAR (W/kg)				
Licensed	GSM	GSM850	0.38	1.33	1.33	1.59	
		GSM1900	<0.10	1.33	1.33		
	WCDMA	Band II	0.11	1.40	1.40		
		Band IV	<0.10	1.43	1.43		
		Band V	0.16	0.77	0.77		
	LTE	Band 7	0.23	<b>1.44</b>	<b>1.44</b>		
		Band 12/ Band 17	1.06	0.85	0.85		
		Band 13	1.07	0.85	0.85		
		Band 14	1.20	0.92	0.92		
		Band 25/ Band 2	1.17	1.43	1.43		
		Band 26/ Band 5	1.15	0.80	0.80		
		Band 30	0.18	1.20	1.20		
		Band 41/ Band 38	0.18	1.39	1.39		
		Band 48	1.11	1.19	1.19		
		Band 66/ Band 4	1.10	1.41	1.41		
		Band 71	0.81	0.60	0.60		
		5G NR	n7	0.14	0.52		0.52
			n12	0.78	0.54		0.54
	n14		0.95	0.71	0.71		
	n25/n2		1.04	1.39	1.39		
	n26/n5		1.04	0.82	0.82		
	n30		0.18	1.16	1.16		
	n41		1.15	1.22	1.21		
	n48		1.20	1.20	1.20		
	n66		1.20	1.23	1.23		
	n70		1.14	1.09	1.09		
	n71	0.57	0.54	0.54			
n77/n78	1.20	1.20	1.20				
DTS	WLAN	2.4GHz WLAN	<b>1.30</b>	0.36	1.22	1.59	
NII		5GHz WLAN	1.11	0.35	1.13	1.59	
DSS	Bluetooth	2.4GHz Bluetooth	<0.10	0.14	0.14	1.58	
Highest 10g SAR Summary							
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)			Highest Simultaneous Transmission 10g SAR (W/kg)	
Licensed	GSM	GSM850	2.11			3.99	
		GSM1900	3.42				
	WCDMA	Band II	3.54				
		Band IV	3.12				
	LTE	Band 7	3.01				
		Band 25/ Band 2	3.36				
		Band 30	3.58				
		Band 41/ Band 38	3.16				
Band 48	2.29						



	5G NR	Band 66/ Band 4	3.29	
		n7	1.46	
		n25/ n2	3.49	
		n30	3.31	
		n41	3.17	
		n48	2.81	
		n66	2.85	
		n70	3.05	
		n77/n78	<b>3.59</b>	
DTS	WLAN	2.4GHz WLAN	1.39	3.96
NII		5GHz WLAN	2.47	3.99

Date of Testing: 2022/4/20 ~ 2022/6/29

**Remark:**

1. This device supports LTE B2 / B4 / B5 / B17 / B38 and B25 / B66 / B26 / B12 / B41. Since the supported frequency span for LTE B2 / B4 / B5 / B17 / B38 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12 / B41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25 / B66 / B26 / B12 / B41.
2. This device supports 5GNR N2 / N5 / n78 and N25 / N26 / n77. Since the supported frequency span for 5GNR N2 / N5 / n78 falls completely within the supports frequency span for N25 / N26 / n77, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for N25 / N26 / n77.

**Declaration of Conformity:**

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

**Comments and Explanations:**

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

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



2. Administration Data

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

Table with 4 columns: Test Firm, Test Site Location, Sporton Site No., FCC Designation No., FCC Test Firm Registration No.

Table with 2 columns: Applicant, Company Name, Address

Table with 2 columns: Manufacturer, Company Name, Address

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 Cellular Phone
Brand Name	Motorola
Model Name	XT2205-1, XT2205-2
FCC ID	IHDT56AE7
IMEI Code	357910940011181
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 :1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 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 ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz WLAN 6E U-NII-5: 5925 MHz ~ 6425 MHz WLAN 6E U-NII-6: 6425 MHz ~ 6525 MHz WLAN 6E U-NII-7: 6525 MHz ~ 6875 MHz WLAN 6E U-NII-8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz WPT: 110 kHz ~ 148 kHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA



	HSUPA DC-HSDPA HSPA+(16QAM uplink is not supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR : CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac/ax VHT20/VHT40/HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac/ax VHT20/VHT40/VHT80/HE20/HE40/HE80 WLAN 6GHz 802.11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE WPT: ASK NFC: ASK
<b>HW Version</b>	DVT2
<b>SW Version</b>	S2ST32.48
<b>GSM / (E)GPRS Transfer mode</b>	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
<b>EUT Stage</b>	Identical Prototype

**Remark:**

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). WIFI 6E has no hotspot function.
4. The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
5. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
6. This device has NFC operations, the NFC antenna is integrated into the device for this model, therefore, all SAR test were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the antenna can be found in the operational description. According to FCC KDB publication 447498 D01v06, transmitters are consider to be operating simultaneously when there is overlapping transmission, with the exception of transmission during network hand-offs with maximum hand-off duration less than 30 seconds.
7. The two models XT2205-1, XT2205-2 are just to differentiate the market, the others are the same.
8. The device implements Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level, which 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.
9. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and Handheld.
10. For some WWAN bands, sensor on reduced power level is higher than hotspot reduced power level, so front/back sensor on SAR can represent hotspot conservatively.
11. This device supports HPUE for LTE Band 41 with class 2 level, HPUE power has been measured separately. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
12. 5G NR n41/n77 supports HPUE, HPUE power and SAR testing performed separately.
13. 5G NR n41/n77 HUPE with higher power, 5G NR n41/n77 HUPE SAR can represent power class 3 level SAR.
14. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
15. For 5G NR FDD/TDD supports SCS15KHz and SCS30KHz, after verification for 30KHz at FDD power level is less than 15KHz at FDD power level, also verification for 15KHz at TDD power level is less than 30KHz at TDD power level, so only show 15KHz at FDD power and 30KHz at TDD power, and chose higher power which is SCS15KHz for FDD bands and SCS30KHz for TDD bands to perform SAR testing.
16. 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.
17. 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.
18. 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.
19. 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.





- 20. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.
- 21. For 5GNR EN-DC mode, standalone SAR performed for 5GNR band with the maximum power, EN-DC SAR summed 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
- 22. SAR Power density test report for WIFI 6E U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth, always chose higher SAR of WLAN5G U-NII-1/2A/2C/3 and U-NII-5/6/7/8.
- 23. RF exposure report for WPC (Wireless power charging) will be separately submitted.

**<5G NR>**

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



n77	TDD	30	10, 15, 20, 30, 40
	TDD	15	10, 15, 20, 25, 30, 40, 50
	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
n78	TDD	15	10, 15, 20, 25, 30, 40, 50
	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	IHDT56AE7																																																														
Equipment Name	Mobile Cellular Phone																																																														
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																														
Channel Bandwidth	LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																														
uplink modulations used	QPSK / 16QAM / 64QAM /256QAM																																																														
LTE Voice / Data requirements	Voice and Data																																																														
LTE Release Version	R15, Cat18																																																														
CA Support	Supported, Uplink and Downlink																																																														
LTE MPR permanently built-in by design	<p><b>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Modulation</th> <th colspan="6">Channel bandwidth / Transmission bandwidth (N<sub>RB</sub>)</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> </thead> <tbody> <tr> <td>QPSK</td> <td>&gt; 5</td> <td>&gt; 4</td> <td>&gt; 8</td> <td>&gt; 12</td> <td>&gt; 16</td> <td>&gt; 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>&gt; 5</td> <td>&gt; 4</td> <td>&gt; 8</td> <td>&gt; 12</td> <td>&gt; 16</td> <td>&gt; 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>&gt; 5</td> <td>&gt; 4</td> <td>&gt; 8</td> <td>&gt; 12</td> <td>&gt; 16</td> <td>&gt; 18</td> <td>≤ 3</td> </tr> <tr> <td>256 QAM</td> <td colspan="6">≥ 1</td> <td>≤ 5</td> </tr> </tbody> </table>	Modulation	Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> )						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
Modulation	Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> )						MPR (dB)																																																								
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																									
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																								
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64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																								
256 QAM	≥ 1						≤ 5																																																								
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																														
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																														
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism; head/body-worn/hotspot/extremity will trigger reduced power for some bands applied to																																																														



	satisfy SAR compliance, the detail please referred to section 13.
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 13.
LTE Carrier Aggregation Additional Information	(1) This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. (2) This device supports maximum of 4 carriers in the downlink and 2 carriers in the uplink.

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



H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	26790	824.5
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5	26940	838.5
LTE Band 30												
	Bandwidth 5 MHz					Bandwidth 10 MHz						
	Channel #		Freq.(MHz)			Channel #		Freq.(MHz)				
L	27685		2307.5			27710		2310				
M	27710		2310			27710		2310				
H	27735		2312.5			27710		2310				
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)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580	37875	2582.5	37900	2585
M	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610	38125	2607.5	38100	2605
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)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506	39775	2508.5	39800	2511
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5	40197	2550.7	40210	2552
M	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5	41042	2635.2	41030	2634
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680	41465	2677.5	41440	2675
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133147	665.5	133172	668	133197	670.5	133222	673	133247	675.5	133272	678
M	133247	675.5	133272	678	133297	680.5	133322	683	133347	685.5	133372	688
H	133447	695.5	133422	693	133397	690.5	133372	688	133347	685.5	133322	683
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)	Ch. #	Freq. (MHz)
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560	55365	3562.5	55390	3565
LM	55810	3607	55815	3607.5	55820	3608	55830	3609	55840	3610	55850	3611
MH	56170	3643	56165	3642.5	56160	3642	56150	3641	56140	3640	56130	3639
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690	56615	3687.5	56590	3685

<For LTE Overlap Bands Description>

1) LTE Bands BW

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 2	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 25	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 4	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 66	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 17			Yes	Yes		
LTE Band 5	Yes	Yes	Yes	Yes		
LTE Band 26	Yes	Yes	Yes	Yes	Yes	
LTE Band 38			Yes	Yes	Yes	Yes
LTE Band 41			Yes	Yes	Yes	Yes



2) LTE Bands tune up:

Band	Antenna	Head DSI 2 Receiver on Tune-up Limit	Body Worn DSI 3 Sensor on Tune-up Limit	Hotspot DSI 7 Tune-up Limit	Extremely DSI 6 Handheld Tune-up Limit	Sensor Off DSI4 Tune-up Limit	Default Tune-up Limit
LTE Band 12	Ant 0	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band 17	Ant 0	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band 12 ENDC	Ant 0	24.00	22.50	22.50	24.00	24.00	24.00
LTE Band 2	Ant 0	24.00	17.00	16.00	20.50	24.00	24.00
LTE Band 25	Ant 0	24.00	17.00	16.00	20.50	24.00	24.00
LTE Band 2 ENDC	Ant 0	24.00	13.00	12.00	17.50	24.00	24.00
LTE Band 25 ENDC	Ant 0	24.00	13.00	12.00	17.50	24.00	24.00
LTE Band 5	Ant 0	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band 26	Ant 0	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band 5 ENDC	Ant 0	24.00	22.50	22.50	24.00	24.00	24.00
LTE Band 26 ENDC	Ant 0	24.00	22.50	22.50	24.00	24.00	24.00
LTE Band 4	Ant 0	24.00	18.00	17.00	20.50	24.00	24.00
LTE Band 66	Ant 0	24.00	18.00	17.00	20.50	24.00	24.00
LTE Band 4 ENDC	Ant 0	24.00	14.00	13.50	17.00	24.00	24.00
LTE Band 66 ENDC	Ant 0	24.00	14.00	13.50	17.00	24.00	24.00

Band	Antenna	Head DSI 2 Receiver on Tune-up Limit	Body Worn DSI 3 Sensor on Tune-up Limit	Hotspot DSI 7 Tune-up Limit	Extremely DSI 6 Handheld Tune-up Limit	Sensor Off DSI4 Tune-up Limit	Default Tune-up Limit
LTE Band 12	Ant 1	23.00	24.00	24.00	24.00	24.00	24.00
LTE Band 17	Ant 1	23.00	24.00	24.00	24.00	24.00	24.00
LTE Band 12 ENDC	Ant 1	20.00	22.50	22.50	24.00	24.00	24.00
LTE Band 25	Ant 1	17.00	18.50	17.00	21.00	24.00	24.00
LTE Band 2	Ant 1	17.00	18.50	17.00	21.00	23.50	23.50
LTE Band 25 ENDC	Ant 1	14.00	15.50	14.00	18.00	24.00	24.00
LTE Band 2 ENDC	Ant 1	14.00	15.50	14.00	18.00	23.50	23.50
LTE Band 5	Ant 1	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band 26	Ant 1	24.00	24.00	24.00	24.00	24.00	24.00
LTE Band 5 ENDC	Ant 1	21.00	23.00	23.00	24.00	24.00	24.00
LTE Band 26 ENDC	Ant 1	21.00	23.00	23.00	24.00	24.00	24.00
LTE Band 4	Ant 1	17.00	17.50	16.00	20.00	23.00	23.00
LTE Band 66	Ant 1	17.00	17.50	16.00	20.00	23.00	23.00
LTE Band 4 ENDC	Ant 1	14.50	14.50	13.00	17.50	23.00	23.00
LTE Band 66 ENDC	Ant 1	14.50	14.50	13.00	17.50	23.00	23.00

Band	Antenna	Head DSI 2 Receiver on Tune-up Limit	Body Worn DSI 3 Sensor on Tune-up Limit	Hotspot DSI 7 Tune-up Limit	Extremely DSI 6 Handheld Tune-up Limit	Sensor Off DSI4 Tune-up Limit	Default Tune-up Limit
LTE Band 38	Ant 6	24.00	21.50	21.50	24.00	24.00	24.00
LTE Band 41	Ant 6	24.00	21.50	21.50	24.00	24.00	24.00
LTE Band 41-HPUE	Ant 6	27.00	24.50	24.50	27.00	27.00	27.00

Note: This device supports LTE B2 / B4 / B5 / B17 / B38 and B25 / B66 / B26 / B12 / B41. Since the supported frequency span for LTE B2 / B4 / B5 / B17 / B38 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12 / B41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25 / B66 / B26 / B12 / B41.



4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 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 5GNR FR1 bands table.
SCS	FDD/ TDD: SCS15KHz/SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B2/5/7/12/13/14/30/48/66/71
LTE Anchor Bands for n5	LTE B2/7/30/48/66
LTE Anchor Bands for n7	LTE B66
LTE Anchor Bands for n12	LTE B2/66
LTE Anchor Bands for n25	LTE B2/12/26/48/66
LTE Anchor Bands for n30	LTE B2/5/12/14/66
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/25/30/48/66/71
LTE Anchor Bands for n71	LTE B2/7/66
LTE Anchor Bands for n41	LTE B2/4/12/25/26/66/71
LTE Anchor Bands for n48	LTE B48
LTE Anchor Bands for n77	LTE B2/5/7/12/13/14/30/48/66
LTE Anchor Bands for n78	LTE B2/5/7/12/13/25/66/71

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band														
NR Band 2 SCS15KHz														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870
M	376000	1880	376000	1880	376000	1880	376500	1882.5	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	381000	1905	379500	1897.5	379000	1895	378000	1890

NR Band 2 SCS30KHz													
	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)	
L	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870	
M	376000	1880	376000	1880	376500	1882.5	376000	1880	376000	1880	376000	1880	
H	381000	1905	380500	1902.5	381000	1905	379500	1897.5	379000	1895	378000	1890	

NR Band 5 SCS15KHz									
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Freq. (MHz)
L	165300	826.5	165800	829	166300	831.5	166800	834	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839	839

NR Band 5 SCS30KHz							
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Freq. (MHz)
L	165800	829	166300	831.5	166800	834	834
M	167300	836.5	167300	836.5	167300	836.5	836.5
H	168800	844	168300	841.5	167800	839	839



NR Band 7 SCS15KHz														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550

NR Band 7 SCS30KHz													
	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)	
L	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520	
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	
H	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	

NR Band 12 SCS15KHz						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	140300	701.5	140800	704	141300	706.5
M	141500	707.5	141500	707.5	141500	707.5
H	142700	713.5	142200	711	141700	708.5

NR Band 12 SCS30KHz						
	Bandwidth 10MHz			Bandwidth 15MHz		
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)	
L	140800	704		141300	706.5	
M	141500	707.5		141500	707.5	
H	142200	711		141700	708.5	

NR Band 14 SCS15KHz				
	Bandwidth 5MHz		Bandwidth 10MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	158100	790.5	158600	793
M	158600	793		
H	159100	795.5		

NR Band 14 SCS30KHz					
	Bandwidth 10MHz		Bandwidth 15MHz		
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)
L	140800	704		141300	706.5
M	141500	707.5		141500	707.5
H	142200	711		141700	708.5

NR Band 25 SCS15KHz														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379000	1895

NR Band 25 SCS30KHz													
	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)	
L	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870	
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	
H	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379000	1895	

NR Band 26 SCS15KHz									
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Freq. (MHz)
L	163300	816.5	163800	819	164300	821.5	164800	824	
M	166300	831.5	166300	831.5	166300	831.5	166300	831.5	
H	169300	846.5	168800	844	168300	841.5	167800	839	

NR Band 26 SCS30KHz									
	Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz		
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)	
L	163800	819		164300	821.5		164800	824	
M	166300	831.5		166300	831.5		166300	831.5	
H	168800	844		168300	841.5		167800	839	





NR Band 30 SCS15KHz													
	Bandwidth 5MHz						Bandwidth 10MHz						
	Ch. #		Freq. (MHz)				Ch. #		Freq. (MHz)				
L	461500		2307.5				462000		2310				
M	462000		2310										
H	462500		2312.5										
NR Band 30 SCS30KHz													
	Bandwidth 10MHz												
	Ch. #						Freq. (MHz)						
L	462000						2310						
M													
H													

NR Band 66 SCS15KHz														
	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 66 SCS30KHz														
	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)		
L	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		
H	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352000	1760		

NR Band 70 SCS15KHz										
	Bandwidth 5MHz			Bandwidth 10MHz			Bandwidth 15MHz			
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		
L	339500	1697.5		340000	1700		340500		1702.5	
M	340500	1702.5		340500	1702.5					
H	341500	1707.5		341000	1705					
NR Band 70 SCS30KHz										
	Bandwidth 10MHz					Bandwidth 15MHz				
	Ch. #		Freq. (MHz)			Ch. #		Freq. (MHz)		
L	340000		1700			340500		1702.5		
M	340500		1702.5							
H	341000		1705							

NR Band 71 SCS15KHz									
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	133100	665.5	133600	668	134100	670.5	134600	673	
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5	
H	139100	695.5	138600	693	138100	690.5	137600	688	
NR Band 71 SCS30KHz									
	Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz		
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)	
L	133600	668		134100	670.5		134600	673	
M	136100	680.5		136100	680.5		136100	680.5	
H	138600	693		138100	690.5		137600	688	

<For NR Overlap Bands Description>

1) NR Bands BW

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n2	FDD	15	5, 10, 15, 20, 25, 30, 40
		FDD	30	10, 15, 20, 25, 30, 40
	n5	FDD	15	5, 10, 15, 20
		FDD	30	10, 15, 20
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
		FDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	15	10, 15, 20, 30, 40, 50
		TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	15	10, 15, 20, 25, 30, 40, 50
		TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100





SA	n78	TDD	15	10, 15, 20, 25, 30, 40, 50
		TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n2	FDD	15	5, 10, 15, 20, 25, 30, 40
		FDD	30	10, 15, 20, 25, 30, 40
	n5	FDD	15	5, 10, 15, 20
		FDD	30	10, 15, 20
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
		FDD	30	10, 15, 20, 25, 30, 40
	n26	FDD	15	5, 10, 15, 20
		FDD	30	10, 15, 20
	n41	TDD	15	10, 15, 20, 30, 40, 50
		TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	15	10, 15, 20, 25, 30, 40, 50
		TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	15	10, 15, 20, 25, 30, 40, 50
		TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100

2) NR Bands Tune up:

Band	Antenna	Head DSI 2 Receiver on Tune-up Limit	Body Worn DSI 3 Sensor on Tune-up Limit	Hotspot DSI 7 Tune-up Limit	Extremely DSI 6 Handheld Tune-up Limit	Sensor Off DSI4 Tune-up Limit	Default Tune-up Limit
5G NR n2 SA	Ant 0	24.00	18.00	15.00	21.00	24.00	24.00
5G NR n25 SA	Ant 0	24.00	18.00	15.00	21.00	24.00	24.00
5G NR n2 NSA	Ant 0	24.00	14.00	12.00	16.50	24.00	24.00
5G NR n25 NSA	Ant 0	24.00	14.00	12.00	16.50	24.00	24.00
5G NR n5 SA	Ant 0	24.00	24.00	24.00	24.00	24.00	24.00
5G NR n26 NSA	Ant 0	24.00	23.00	23.00	24.00	24.00	24.00

Band	Antenna	Head DSI 2 Receiver on Tune-up Limit	Body Worn DSI 3 Sensor on Tune-up Limit	Hotspot DSI 7 Tune-up Limit	Extremely DSI 6 Handheld Tune-up Limit	Sensor Off DSI4 Tune-up Limit	Default Tune-up Limit
5G NR n2 SA	Ant 1	18.00	17.50	17.00	19.00	24.00	24.00
5G NR n25 SA	Ant 1	18.00	17.50	17.00	19.00	24.00	24.00
5G NR n2 NSA	Ant 1	15.00	14.50	14.00	17.00	24.00	24.00
5G NR n25 NSA	Ant 1	15.00	14.50	14.00	17.00	24.00	24.00
5G NR n5 SA	Ant 1	22.50	24.00	24.00	24.00	24.00	24.00
5G NR n26 SA	Ant 1	22.50	24.00	24.00	24.00	24.00	24.00
5G NR n5 NSA	Ant 1	19.00	22.50	22.50	24.00	24.00	24.00
5G NR n26 NSA	Ant 1	19.00	22.50	22.50	24.00	24.00	24.00

Band	Antenna	Head DSI 2 Receiver on Tune-up Limit	Body Worn DSI 3 Sensor on Tune-up Limit	Hotspot DSI 7 Tune-up Limit	Extremely DSI 6 Handheld Tune-up Limit	Sensor Off DSI4 Tune-up Limit	Default Tune-up Limit
5G NR n77 SA	Ant 3	19.00	17.50	17.50	23.00	24.00	24.00
5G NR n77-HPUE SA	Ant 3	19.00	17.50	17.50	23.00	27.00	27.00
5G NR n77 NSA	Ant 3	16.00	14.50	14.50	20.00	24.00	24.00
5G NR n77-HPUE NSA	Ant 3	16.00	14.50	14.50	20.00	27.00	27.00
5G NR n78 SA	Ant 3	19.00	17.50	17.50	23.00	24.00	24.00
5G NR n78 NSA	Ant 3	16.00	14.50	14.50	20.00	24.00	24.00



Band	Antenna	Head DSI 2 Receiver on Tune-up Limit	Body Worn DSI 3 Sensor on Tune-up Limit	Hotspot DSI 7 Tune-up Limit	Extremely DSI 6 Handheld Tune-up Limit	Sensor Off DSI4 Tune-up Limit	Default Tune-up Limit
5G NR n77 SA	Ant 4	23.50	19.50	19.50	22.50	23.50	23.50
5G NR n77-HPUE SA	Ant 4	24.00	19.50	19.50	22.50	24.00	27.00
5G NR n77 NSA	Ant 4	20.00	16.50	16.50	19.50	23.50	23.50
5G NR n77-HPUE NSA	Ant 4	20.00	16.50	16.50	19.50	24.00	27.00
5G NR n78 SA	Ant 4	23.70	19.50	19.50	22.50	23.70	23.70
5G NR n78 NSA	Ant 4	20.00	16.50	16.50	19.50	23.70	23.70

Band	Antenna	Head DSI 2 Receiver on Tune-up Limit	Body Worn DSI 3 Sensor on Tune-up Limit	Hotspot DSI 7 Tune-up Limit	Extremely DSI 6 Handheld Tune-up Limit	Sensor Off DSI4 Tune-up Limit	Default Tune-up Limit
5G NR n77 SA	Ant 5	24.00	19.50	19.50	22.00	24.00	24.00
5G NR n77-HPUE SA	Ant 5	27.00	19.50	19.50	22.00	27.00	27.00
5G NR n77 NSA	Ant 5	24.00	16.00	16.00	20.00	24.00	24.00
5G NR n77-HPUE NSA	Ant 5	27.00	16.00	16.00	20.00	27.00	27.00
5G NR n78 SA	Ant 5	24.00	19.50	19.50	22.00	24.00	24.00
5G NR n78 NSA	Ant 5	24.00	16.00	16.00	20.00	24.00	24.00

Band	Antenna	Head DSI 2 Receiver on Tune-up Limit	Body Worn DSI 3 Sensor on Tune-up Limit	Hotspot DSI 7 Tune-up Limit	Extremely DSI 6 Handheld Tune-up Limit	Sensor Off DSI4 Tune-up Limit	Default Tune-up Limit
5G NR n41 SA	Ant 8	22.60	20.80	20.80	22.60	22.60	22.60
5G NR n41-HPUE SA	Ant 8	25.80	20.80	20.80	25.80	25.80	25.80
5G NR n41 NSA	Ant 8	22.60	17.80	17.80	22.60	22.60	22.60
5G NR n41 -HPUE NSA	Ant 8	25.80	17.80	17.80	23.30	25.80	25.80
5G NR n77 SA	Ant 8	21.70	10.00	10.00	18.50	21.70	21.70
5G NR n77-HPUE SA	Ant 8	24.10	10.00	10.00	18.50	24.10	24.10
5G NR n77 NSA	Ant 8	21.70	7.00	7.00	15.50	21.70	21.70
5G NR n77-HPUE NSA	Ant 8	24.10	7.00	7.00	15.50	24.10	24.10
5G NR n78 SA	Ant 8	21.70	10.00	10.00	18.50	21.70	21.70
5G NR n78 NSA	Ant 8	21.70	7.00	7.00	15.50	21.70	21.70

Note: This device supports 5G NR N2 / N5 / n78 and N25 / N26 / n77. Since the supported frequency span for 5G NR N2 / N5 / n78 falls completely within the supported frequency span for N25 / N26 / n77, both 5G NR bands have the same target power, and both 5G NR bands share the same transmission path; therefore, SAR was only assessed for N25 / N26 / n77.



NR Band 41 SCS15KHz												
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz	
	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
M	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

NR Band 41 SCS30KHz																						
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	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	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	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	531000	2655	529998	2649.99	528996	2644.98	528000	2640

NR Band 48 SCS15KHz										
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	637000	3555	637168	3557.52	637334	3560.01	637668	3565.02	638000	3570
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H	646332.00	3694.98	646166.00	3692.49	646000	3690	645666.00	3684.99	645332.00	3679.98

NR Band 48 SCS30KHz										
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	637000	3555	637168	3557.52	637334	3560.01	637668	3565.02	638000	3570
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H	646332.00	3694.98	646166.00	3692.49	646000	3690	645666.00	3684.99	645332.00	3679.98

NR Band 77 SCS15KHz														
	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)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01
M	656000	3840	656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99

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

NR Band 78 SCS15KHz														
	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)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01
M	650000	3750	650000	3750	650000	3750	650000	3750.00	650000	3750.00	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.50	652332	3784.98	652000	3780	651666	3774.99

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	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750.00	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.50	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 SCS15KHz														
	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)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635500	3532	635334	3530.01

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	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635500	3532	635334	3530.01	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99

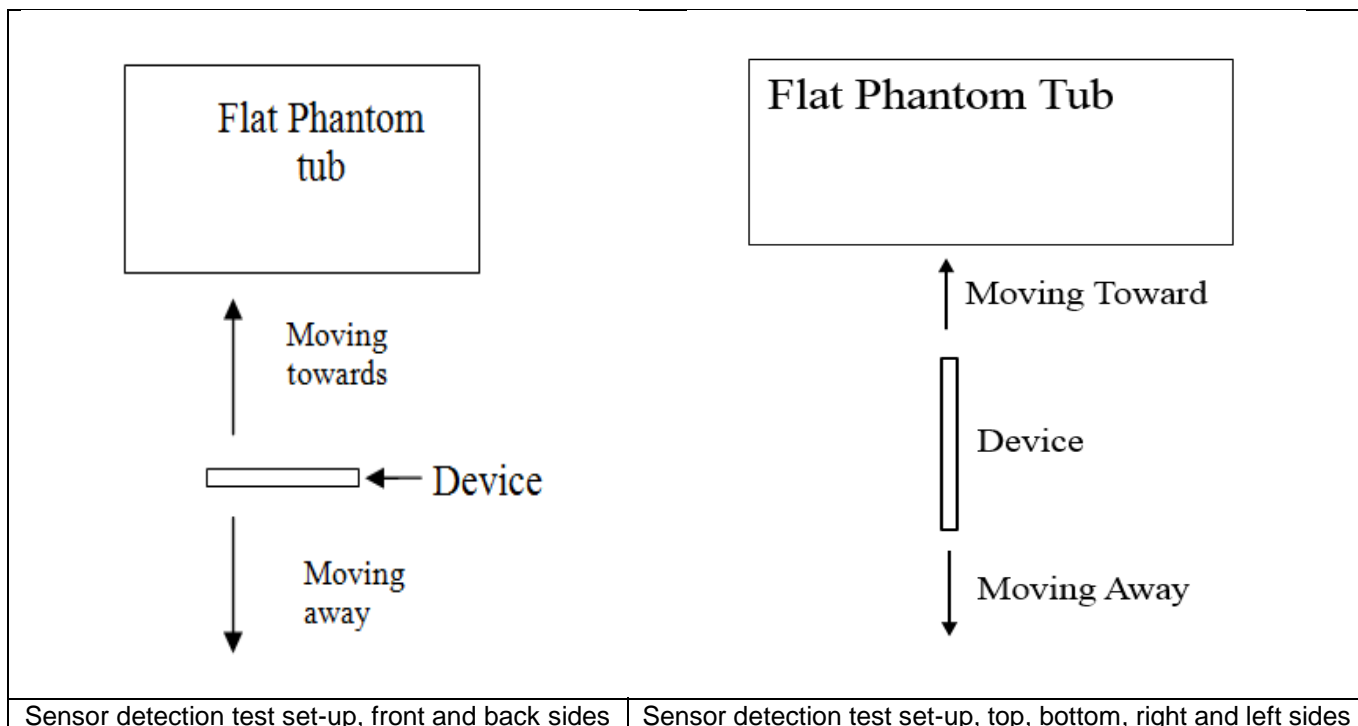
NR Band 78 SCS15KHz														
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635500	3532	635334	3530.01

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	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635500	3532	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02

## 5. Proximity Sensor Triggering Test

### <Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (5850MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device.
3. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
4. The sensors used to detect the proximity of the user's body at the front or back surface of the device use a detection threshold distance. The data shown in the sections below shows the distance(s). When front or back body worn condition is detected reduced power will be active.
5. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/top/bottom/left/right sides of the device. When front/back/top/bottom/left/right sides of handheld condition is detected reduced power will be active.
6. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed:



### <P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	17	21	21	26

### <Handheld for ANT0>

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



**<Handheld for ANT1>**

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	7	12	11	14	5	8	12	17

**<Handheld for ANT3>**

Proximity Sensor Triggering Distance (mm)				
Position	Back		Left Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	5	6	4	5

**<Handheld for ANT4& ANT5>**

Proximity Sensor Triggering Distance (mm)		
Position	Back	
	Moving towards	Moving away
Minimum	4	5

**<Handheld for ANT6>**

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	5	7	9	13	6	9	8	13

**<Handheld for ANT8>**

Proximity Sensor Triggering Distance (mm)		
Position	Back	
	Moving towards	Moving away
Minimum	9	10

**<Handheld for ANT2>**

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	9	10	14	15	11	12	13	14

**<Handheld for ANT9>**

Proximity Sensor Triggering Distance (mm)				
Position	Front		Right Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	2	3	5	5

## **6. RF Exposure Limits**

### **6.1 Uncontrolled Environment**

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

### **6.2 Controlled Environment**

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

**Limits for Occupational/Controlled Exposure (W/kg)**

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

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

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

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

## **7. Specific Absorption Rate (SAR)**

### **7.1 Introduction**

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

### **7.2 SAR Definition**

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

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

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

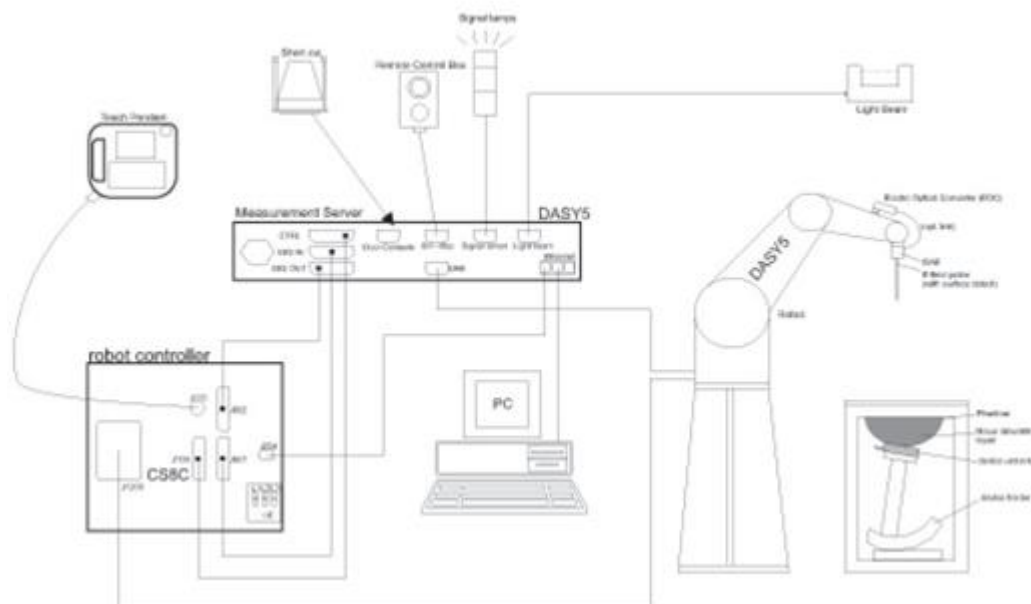
$$\text{SAR} = \frac{\sigma |E|^2}{\rho}$$

Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  is the mass density of the tissue and E is the RMS electrical field strength.



## 8. 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 WinXP or Win10 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

**8.1 E-Field Probe**

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

**<EX3DV4 Probe>**

<b>Construction</b>	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
<b>Frequency</b>	10 MHz – >6 GHz Linearity: ±0.2 dB (30 MHz – 6 GHz)	
<b>Directivity</b>	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)	
<b>Dynamic Range</b>	10 µW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 µW/g)	
<b>Dimensions</b>	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

**8.2 Data Acquisition Electronics (DAE)**

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


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



**Photo of DAE**

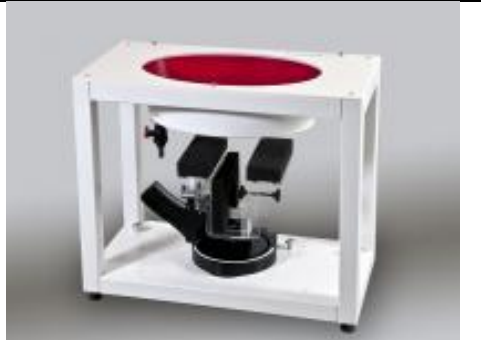
### 8.3 Phantom

#### <SAM Twin Phantom>

<b>Shell Thickness</b>	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
<b>Filling Volume</b>	Approx. 25 liters	
<b>Dimensions</b>	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
<b>Measurement Areas</b>	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>

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

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

## 8.4 Device Holder

### <Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

## 9. Measurement Procedures

The measurement procedures are as follows:

### <Conducted power measurement>

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

### <SAR measurement>

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

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

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

### 9.1 Spatial Peak SAR Evaluation

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

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

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

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

**9.2 Power Reference Measurement**

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

**9.3 Area Scan**

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

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

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

### 9.4 Zoom Scan

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

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

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

### 9.5 Volume Scan Procedures

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

### 9.6 Power Drift Monitoring

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





### 10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	2022/2/24	2023/2/23
SPEAG	835MHz System Validation Kit	D835V2	4d162	2021/12/17	2022/12/16
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2022/2/24	2023/2/23
SPEAG	1900MHz System Validation Kit	D1900V2	5d182	2021/12/20	2022/12/19
SPEAG	2300MHz System Validation Kit	D2300V2	1055	2020/9/15	2023/9/14
SPEAG	2450MHz System Validation Kit	D2450V2	924	2020/9/2	2023/9/1
SPEAG	2600MHz System Validation Kit	D2600V2	1061	2020/11/26	2023/11/25
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2020/11/25	2023/11/24
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2020/11/25	2023/11/24
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2020/5/14	2023/5/12
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2019/9/24	2022/9/22
SPEAG	Data Acquisition Electronics	DAE4	1338	2021/12/1	2022/11/30
SPEAG	Data Acquisition Electronics	DAE4	1303	2021/6/18	2022/6/17
SPEAG	Data Acquisition Electronics	DAE4	1691	2021/10/4	2022/10/3
SPEAG	Dosimetric E-Field Probe	ES3DV3	3279	2021/8/24	2022/8/23
SPEAG	Dosimetric E-Field Probe	EX3DV4	7706	2022/1/20	2023/1/19
SPEAG	SAM Twin Phantom	SAM Twin	TP-1842	NCR	NCR
SPEAG	SAM Twin Phantom	SAM Twin	TP-2022	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262306173	2021/7/15	2022/7/14
Agilent	ENA Series Network Analyzer	E5071C	MY46106933	2021/7/31	2022/7/30
SPEAG	Dielectric Probe Kit	DAK-3.5	1138	2021/6/9	2022/6/8
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	2022/1/24	2023/1/23
Anritsu	Vector Signal Generator	MG3710A	6201682672	2022/1/6	2023/1/5
Anritsu	Power Meter	NRVD	102081	2021/8/12	2022/8/11
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2021/8/12	2022/8/11
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2021/8/12	2022/8/11
R&S	CBT BLUETOOTH TESTER	CBT	100641	2022/1/5	2023/1/4
EXA	Spectrum Analyzer	FSV7	101631	2021/10/14	2022/10/13
FLUKE	DIGITAC THERMOMETER	51II	97240029	2021/10/23	2022/10/22
Testo	Thermo-Hygrometer	608-H1	1241332126	2022/1/6	2023/1/5
ARRA	Power Divider	A3200-2	N/A	Note 1	
MCL	Attenuation1	BW-S10W5+	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	

**Note:**

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



## 11. System Verification

### 11.1 Tissue Simulating Liquids

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

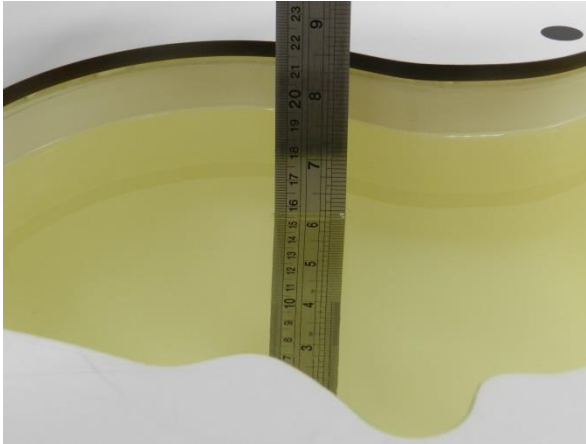


Fig 11.1 Photo of Liquid Height for Head SAR

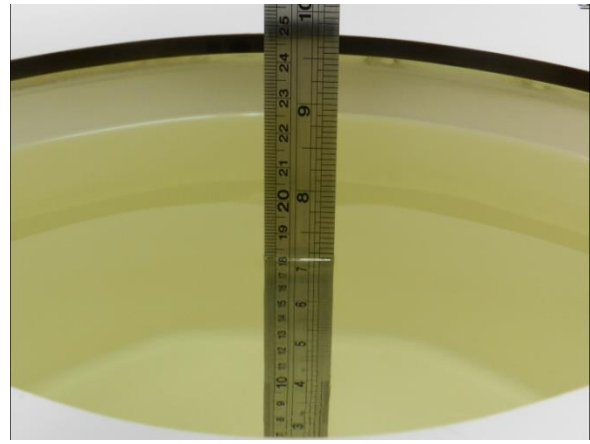


Fig 11.2 Photo of Liquid Height for Body SAR



### 11.2 Tissue Verification

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

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

#### Simulating Liquid for 5GHz, Manufactured by SPEAG

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

#### <Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε <sub>r</sub> )	Conductivity Target (σ)	Permittivity Target (ε <sub>r</sub> )	Delta (σ) (%)	Delta (ε <sub>r</sub> ) (%)	Limit (%)	Date
750	Head	22.7	0.915	41.83	0.89	41.90	2.81	-0.17	±5	2022/4/20
835	Head	22.7	0.930	40.922	0.90	41.50	3.33	-1.39	±5	2022/4/22
1750	Head	22.7	1.410	40.673	1.37	40.10	2.92	1.43	±5	2022/4/25
1900	Head	22.9	1.431	39.772	1.40	40.00	2.21	-0.57	±5	2022/4/29
2300	Head	22.6	1.716	38.771	1.67	39.50	2.75	-1.85	±5	2022/5/1
2450	Head	22.6	1.807	38.606	1.80	39.20	0.39	-1.52	±5	2022/5/7
2600	Head	22.6	1.924	38.309	1.96	39.00	-1.84	-1.77	±5	2022/5/13
3500	Head	22.7	2.809	39.000	2.91	37.90	-3.47	2.90	±5	2022/5/4
3700	Head	22.7	2.995	38.685	3.12	37.70	-4.01	2.61	±5	2022/5/4
3900	Head	22.7	3.195	38.386	3.32	37.50	-3.77	2.36	±5	2022/5/4
5250	Head	22.9	4.587	36.210	4.71	35.90	-2.61	0.86	±5	2022/5/9
5600	Head	22.9	4.964	35.705	5.07	35.50	-2.09	0.58	±5	2022/5/9
5750	Head	22.9	5.138	35.514	5.22	35.40	-1.57	0.32	±5	2022/5/9
750	Head	22.6	0.900	41.184	0.89	41.90	1.12	-1.71	±5	2022/5/12
835	Head	22.9	0.929	40.921	0.90	41.50	3.22	-1.40	±5	2022/5/15
1750	Head	22.7	1.411	40.674	1.37	40.10	2.99	1.43	±5	2022/5/17
1900	Head	22.9	1.432	39.781	1.40	40.00	2.29	-0.55	±5	2022/5/13
2300	Head	22.6	1.717	39.460	1.67	39.50	2.81	-0.10	±5	2022/5/18
2450	Head	22.6	1.820	39.239	1.80	39.20	1.11	0.10	±5	2022/5/20
2600	Head	22.6	1.926	39.049	1.96	39.00	-1.73	0.13	±5	2022/5/22
3500	Head	22.7	2.834	39.055	2.91	37.90	-2.61	3.05	±5	2022/5/24
3700	Head	22.7	3.024	38.723	3.12	37.70	-3.08	2.71	±5	2022/5/24
3900	Head	22.7	3.227	38.425	3.32	37.50	-2.80	2.47	±5	2022/5/24
5250	Head	22.9	4.553	36.097	4.71	35.90	-3.33	0.55	±5	2022/5/27
5600	Head	22.9	4.926	35.568	5.07	35.50	-2.84	0.19	±5	2022/5/27
5750	Head	22.9	5.101	35.383	5.22	35.40	-2.28	-0.05	±5	2022/5/27
2300	Head	22.8	1.671	39.692	1.67	39.50	0.06	0.49	±5	2022/6/26
2600	Head	22.5	2.008	40.543	1.96	39.00	2.45	3.96	±5	2022/6/27
2600	Head	22.7	1.888	39.286	1.96	39.00	-3.67	0.73	±5	2022/6/29
3500	Head	22.6	2.826	39.043	2.91	37.90	-2.89	3.02	±5	2022/6/28
3700	Head	22.6	3.015	38.714	3.12	37.70	-3.37	2.69	±5	2022/6/28



### 11.3 System Performance Check Results

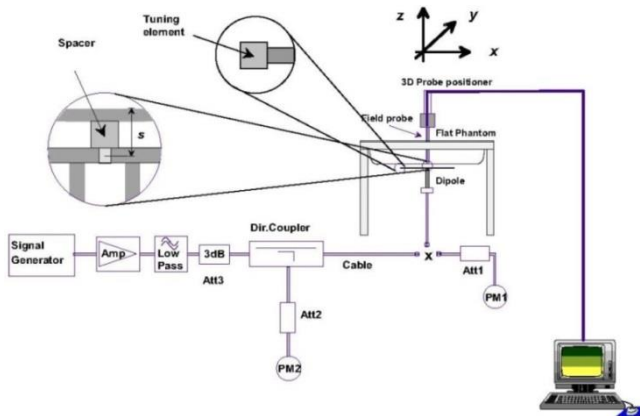
Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the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

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2022/4/20	750	Head	50	1087	3279	1338	0.427	8.58	8.54	-0.47
2022/4/22	835	Head	50	4d162	3279	1338	0.466	9.64	9.32	-3.32
2022/4/25	1750	Head	50	1090	3279	1338	1.810	37.00	36.2	-2.16
2022/4/29	1900	Head	50	5d182	3279	1338	2.020	39.60	40.4	2.02
2022/5/1	2300	Head	50	1055	3279	1338	2.240	47.70	44.8	-6.08
2022/5/7	2450	Head	50	924	3279	1338	2.490	51.40	49.8	-3.11
2022/5/13	2600	Head	50	1061	3279	1338	2.610	56.60	52.2	-7.77
2022/5/4	3500	Head	50	1037	7706	1303	3.290	68.00	65.8	-3.24
2022/5/4	3700	Head	50	1008	7706	1303	3.160	67.60	63.2	-6.51
2022/5/4	3900	Head	50	1048	7706	1303	3.320	70.20	66.4	-5.41
2022/5/9	5250	Head	50	1113	7706	1303	3.750	80.50	75	-6.83
2022/5/9	5600	Head	50	1113	7706	1303	3.890	83.40	77.8	-6.71
2022/5/9	5750	Head	50	1113	7706	1303	3.740	80.00	74.8	-6.50
2022/5/12	750	Head	50	1087	3279	1338	0.390	8.58	7.8	-9.09
2022/5/15	835	Head	50	4d162	3279	1338	0.464	9.64	9.28	-3.73
2022/5/17	1750	Head	50	1090	3279	1338	1.770	37.00	35.4	-4.32
2022/5/13	1900	Head	50	5d182	3279	1338	2.010	39.60	40.2	1.52
2022/5/18	2300	Head	50	1055	3279	1338	2.250	47.70	45	-5.66
2022/5/20	2450	Head	50	924	3279	1338	2.490	51.40	49.8	-3.11
2022/5/22	2600	Head	50	1061	3279	1338	2.620	56.60	52.4	-7.42
2022/5/24	3500	Head	50	1037	7706	1303	3.130	68.00	62.6	-7.94
2022/5/24	3700	Head	50	1008	7706	1303	3.190	67.60	63.8	-5.62
2022/5/24	3900	Head	50	1048	7706	1303	3.330	70.20	66.6	-5.13
2022/5/27	5250	Head	50	1113	7706	1303	3.780	80.50	75.6	-6.09
2022/5/27	5600	Head	50	1113	7706	1303	3.940	83.40	78.8	-5.52
2022/5/27	5750	Head	50	1113	7706	1303	3.820	80.00	76.4	-4.50
2022/6/26	2300	Head	50	1055	3279	1338	2.330	47.70	46.6	-2.31
2022/6/27	2600	Head	50	1061	3279	1338	2.620	56.60	52.4	-7.42
2022/6/29	2600	Head	50	1061	3279	1338	2.660	56.60	53.2	-6.01
2022/6/28	3500	Head	50	1037	7706	1691	3.150	68.00	63	-7.35
2022/6/28	3700	Head	50	1008	7706	1691	3.110	67.60	62.2	-7.99

**<10g SAR>**

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2022/4/20	750	Head	50	1087	3279	1338	0.276	5.65	5.52	-2.30
2022/4/22	835	Head	50	4d162	3279	1338	0.299	6.26	5.98	-4.47
2022/4/25	1750	Head	50	1090	3279	1338	0.957	19.50	19.14	-1.85
2022/4/29	1900	Head	50	5d182	3279	1338	1.040	20.20	20.8	2.97
2022/5/1	2300	Head	50	1055	3279	1338	1.090	22.90	21.8	-4.80
2022/5/7	2450	Head	50	924	3279	1338	1.150	24.00	23	-4.17
2022/5/13	2600	Head	50	1061	3279	1338	1.210	25.10	24.2	-3.59
2022/5/4	3500	Head	50	1037	7706	1303	1.200	25.40	24	-5.51
2022/5/4	3700	Head	50	1008	7706	1303	1.170	24.40	23.4	-4.10
2022/5/4	3900	Head	50	1048	7706	1303	1.190	24.40	23.8	-2.46
2022/5/9	5250	Head	50	1113	7706	1303	1.080	23.10	21.6	-6.49
2022/5/9	5600	Head	50	1113	7706	1303	1.130	23.80	22.6	-5.04
2022/5/9	5750	Head	50	1113	7706	1303	1.100	22.80	22	-3.51
2022/5/12	750	Head	50	1087	3279	1338	0.265	5.65	5.3	-6.19
2022/5/15	835	Head	50	4d162	3279	1338	0.299	6.26	5.98	-4.47
2022/5/17	1750	Head	50	1090	3279	1338	0.948	19.50	18.96	-2.77
2022/5/13	1900	Head	50	5d182	3279	1338	1.030	20.20	20.6	1.98
2022/5/18	2300	Head	50	1055	3279	1338	1.090	22.90	21.8	-4.80
2022/5/20	2450	Head	50	924	3279	1338	1.190	24.00	23.8	-0.83
2022/5/22	2600	Head	50	1061	3279	1338	1.210	25.10	24.2	-3.59
2022/5/24	3500	Head	50	1037	7706	1303	1.170	25.40	23.4	-7.87
2022/5/24	3700	Head	50	1008	7706	1303	1.170	24.40	23.4	-4.10
2022/5/24	3900	Head	50	1048	7706	1303	1.200	24.40	24	-1.64
2022/5/27	5250	Head	50	1113	7706	1303	1.110	23.10	22.2	-3.90
2022/5/27	5600	Head	50	1113	7706	1303	1.120	23.80	22.4	-5.88
2022/5/27	5750	Head	50	1113	7706	1303	1.100	22.80	22	-3.51
2022/6/26	2300	Head	50	1055	3279	1338	1.140	22.90	22.8	-0.44
2022/6/27	2600	Head	50	1061	3279	1338	1.320	25.10	26.4	5.18
2022/6/29	2600	Head	50	1061	3279	1338	1.230	25.10	24.6	-1.99
2022/6/28	3500	Head	50	1037	7706	1691	1.190	25.40	23.8	-6.30
2022/6/28	3700	Head	50	1008	7706	1691	1.130	24.40	22.6	-7.38



**Fig 11.3.1 System Performance Check Setup**



**Fig 11.3.2 Setup Photo**

## 12. RF Exposure Positions

### 12.1 Ear and handset reference point

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

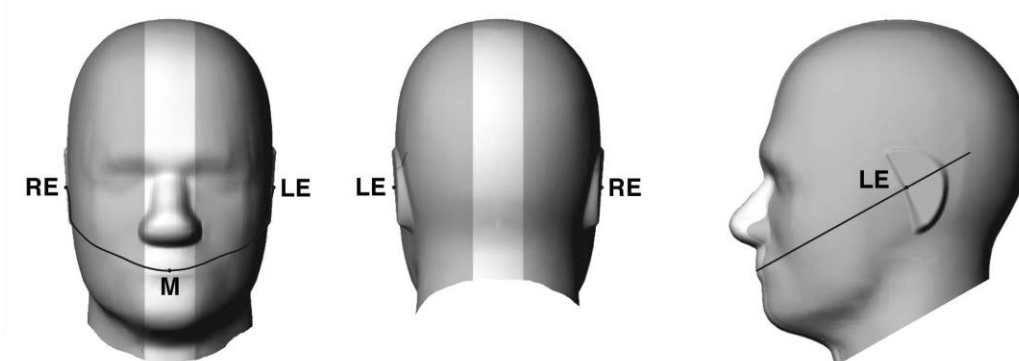


Fig 12.1.1 Front, back, and side views of SAM twin phantom

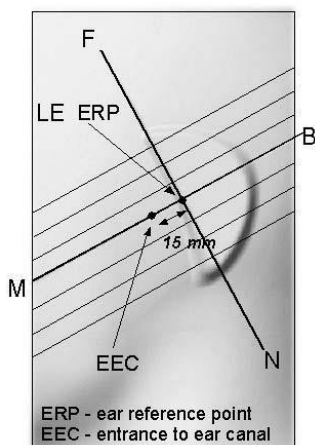


Fig 12.1.2 Close-up side view of phantom showing the ear region.

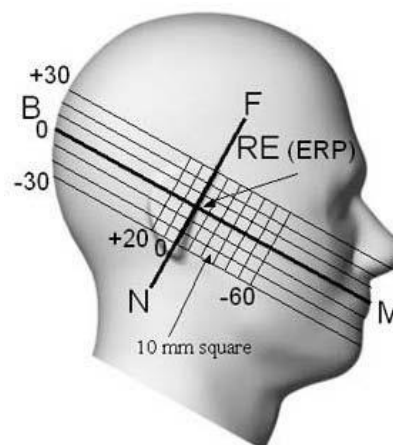


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

## 12.2 Definition of the cheek position

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

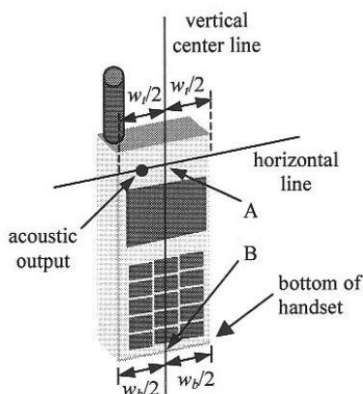


Fig 12.2.1 Handset vertical and horizontal reference lines—“fixed case”

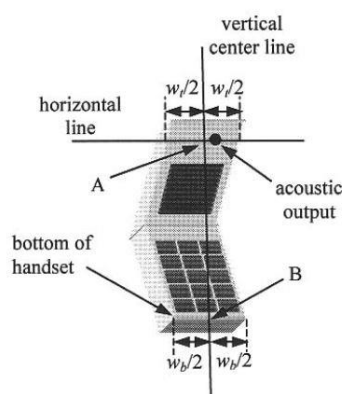


Fig 12.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

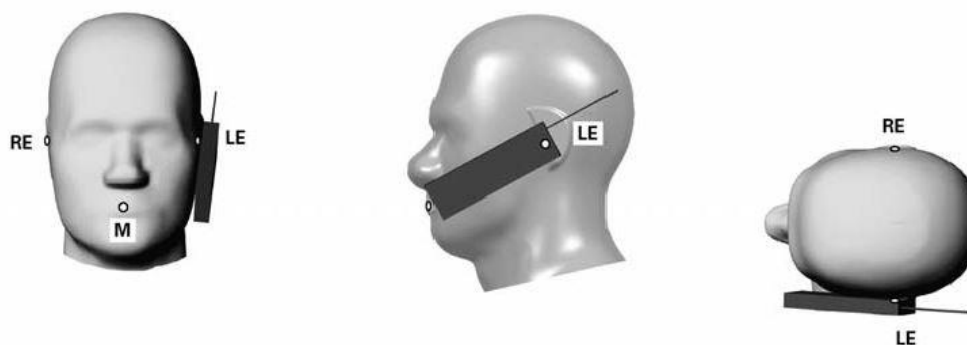


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

### 12.3 Definition of the tilt position

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

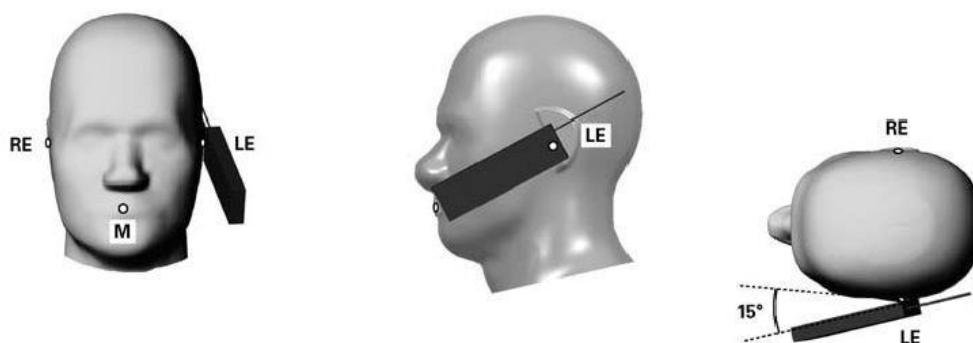


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.



## 12.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 12.4). 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  $> 1.2$  W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset 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 tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

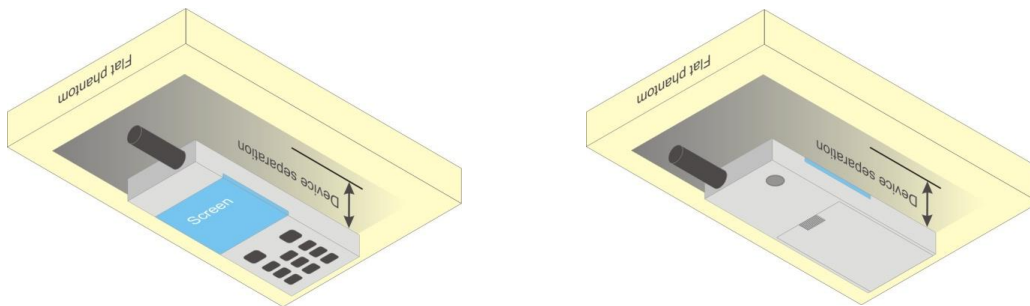


Fig 12.4 Body Worn Position





## **12.5 Product Specific 10g SAR Exposure**

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that 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  $\leq 25$  mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.6 The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

## **12.6 Wireless Router**

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

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

### **13. Conducted RF Output Power (Unit: dBm)**

The detailed conducted power table can refer to Appendix E.

#### **<GSM Conducted Power>**

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS 4Tx slots for GSM850/GSM1900 are considered as the primary mode.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode, SAR measurement is not required for the secondary mode.

#### **<WCDMA Conducted Power>**

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

A summary of these settings are illustrated below:

#### **HSDPA Setup Configuration:**

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
  - i. Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) 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:  $\beta$  values for transmitter characteristics tests with HS-DPCCH**

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_o/\beta_d$	$\beta_{HS}$ (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:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  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,  $\Delta_{ACK}$  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  $\beta_o/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

**Setup Configuration**

**HSUPA Setup Configuration:**

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

**Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH**

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note1)	$\beta_{ec}$	$\beta_{ed}$ (Note 4) (Note 5)	$\beta_{ed}$ (SF)	$\beta_{ed}$ (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	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	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,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ . For sub-test 5,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  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  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF0) to  $\beta_c = 10/15$  and  $\beta_d = 15/15$ .

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

Note 5:  $\beta_{ed}$  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:**

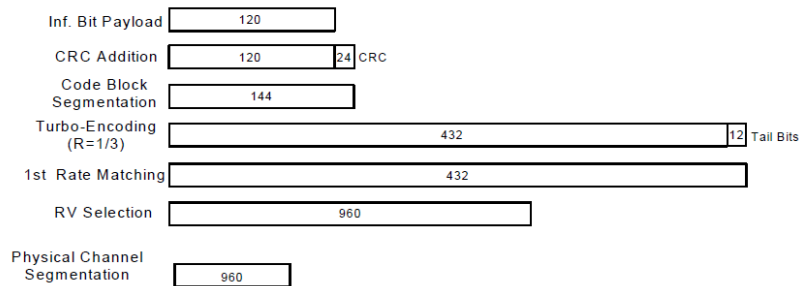
- a. The EUT was connected to Base Station referred to the Setup Configuration below
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
  - i. Set RMC 12.2Kbps + HSDPA mode.
  - ii. Set Cell Power = -25 dBm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

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

**C.8.1.12 Fixed Reference Channel Definition H-Set 12**

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

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



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

**Setup Configuration**



**<WCDMA Conducted Power>**

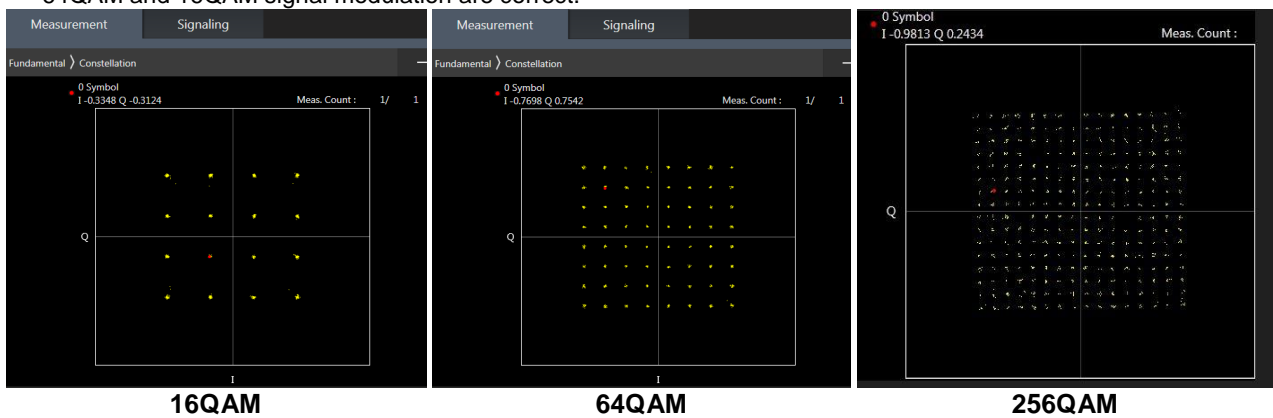
**General Note:**

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

**<LTE Conducted Power>**

**General Note:**

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  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  $\leq 1.45$  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  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B2 / B4 / B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. the maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion
  - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to 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.

- a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- b. "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
- c. 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.

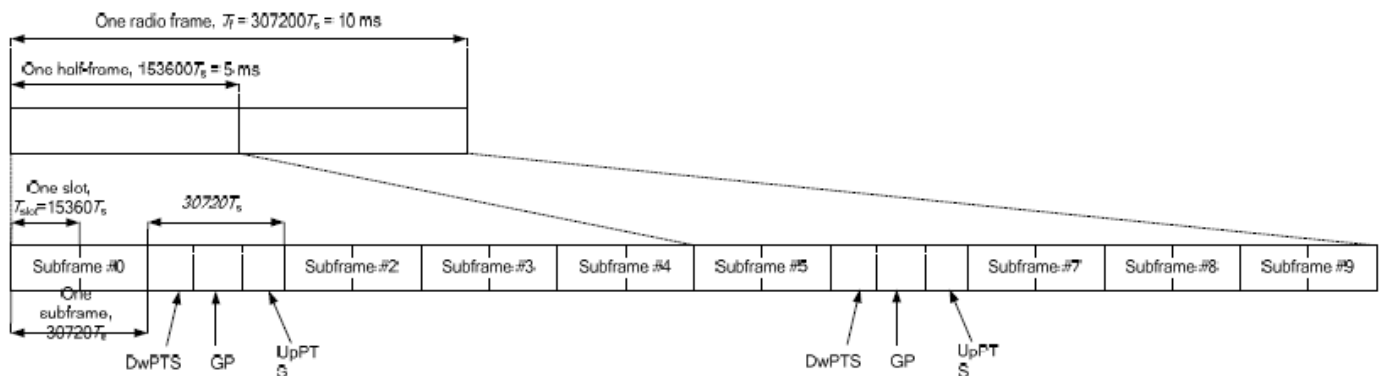


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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	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 · Ts	2192 · Ts	2560 · Ts	7680 · Ts	2192 · Ts	2560 · Ts
1	19760 · Ts			20480 · Ts		
2	21952 · Ts			23040 · Ts		
3	24144 · Ts			25600 · Ts		
4	26336 · Ts	4384 · Ts	5120 · Ts	7680 · Ts	4384 · Ts	5120 · Ts
5	6592 · Ts			20480 · Ts		
6	19760 · Ts			23040 · Ts		
7	21952 · Ts			12800 · Ts		
8	24144 · Ts			-		
9	13168 · Ts	-	-	-	-	-

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

The highest duty factor is resulted from:

For Power class 2

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

For Power class 3

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

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

LTE TDD Band	Power Class level	support uplink/downlink configuration
LTE Band 38/41	> 23	1,2,3,4,5
	=23	0,1,2,3,4,5,6
	< 23	0,1,2,3,4,5,6



<LTE Carrier Aggregation>

General Note:

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

2CC Downlink Carrier Aggregation			3CC Downlink Carrier Aggregation			4CC Downlink Carrier Aggregation		
Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset
1	CA_2A-2A	3CC#1	1	CA_2A-2A-4A	4CC#1	1	CA_2A-2A-4A-4A	
2	CA_2A-4A	3CC#1	2	CA_2A-2A-5A	4CC#2	2	CA_2A-2A-4A-5A	
3	CA_2A-5A	3CC#2	3	CA_2A-2A-13A	4CC#3	3	CA_2A-2A-4A-13A	
4	CA_2A-7A	3CC#12	4	CA_2A-2A-66A	4CC#5	4	CA_2A-2A-5B	
5	CA_2A-13A	3CC#13	5	CA_2A-4A-4A	4CC#1	5	CA_2A-2A-5A-66A	
6	CA_2A-48A	3CC#19	6	CA_2A-4A-5A	4CC#2	6	CA_2A-2A-13A-66A	
7	CA_2A-66A	3CC#21	7	CA_2A-4A-13A	4CC#11	7	CA_2A-2A-66B	
8	CA_4A-4A	3CC#24	8	CA_2A-5B	4CC#4	8	CA_2A-2A-66C	
9	CA_4A-5A	3CC#23	9	CA_2A-5A-48A	4CC#46	9	CA_2A-2A-66A-66A	
10	CA_4A-13A	3CC#24	10	CA_2A-5A-66A	4CC#17	10	CA_2A-4A-4A-5A	
11	CA_4A-48A		11	CA_2A-7C	4CC#21	11	CA_2A-4A-4A-13A	
12	CA_4A-71A		12	CA_2A-7A-7A	4CC#22	12	CA_2A-5A-5A-66A	
13	CA_5B	3CC#27	13	CA_2A-7A-13A	4CC#22	13	CA_2A-4A-5B	
14	CA_5A-5A	3CC#28	14	CA_2A-7A-66A	4CC#24	14	CA_2A-5B-66A	
15	CA_5A-48A	3CC#31	15	CA_2A-13A-48A	4CC#26	15	CA_2A-5A-48C	
16	CA_5A-66A	3CC#28	16	CA_2A-13A-66A	4CC#27	16	CA_2A-5A-48A-48A	
17	CA_7B		17	CA_2A-48C	4CC#32	17	CA_2A-5A-48A-66A	
18	CA_7C	3CC#37	18	CA_2A-48A-48A	4CC#34	18	CA_2A-5A-66B	
19	CA_7A-7A	3CC#36	19	CA_2A-48A-66A	4CC#34	19	CA_2A-5A-66C	
20	CA_7A-13A	3CC#26	20	CA_2A-66B	4CC#35	20	CA_2A-5A-66A-66A	
21	CA_7A-66A	3CC#14	21	CA_2A-66C	4CC#32	21	CA_2A-7C-13A	
22	CA_13A-48A	3CC#40	22	CA_2A-66A-66A	4CC#36	22	CA_2A-7A-7A-13A	
23	CA_13A-66A	3CC#16	23	CA_4A-4A-5A	4CC#10	23	CA_2A-7C-66A	
24	CA_48B		24	CA_4A-4A-13A	4CC#11	24	CA_2A-7A-7A-66A	
25	CA_48C	3CC#39	25	CA_4A-5B	4CC#37	25	CA_2A-13A-48C	
26	CA_48A-48A	3CC#40B	26	CA_4A-48C		26	CA_2A-13A-48A-48A	
27	CA_48A-66A	3CC#41	27	CA_5B-66A	4CC#41	27	CA_2A-13A-48A-66A	
28	CA_66B	3CC#42	28	CA_5A-5A-66A	4CC#12	28	CA_2A-13A-66B	
29	CA_66C	3CC#54	29	CA_5A-48C	4CC#15	29	CA_2A-13A-66C	
30	CA_66A-66A	3CC#55	30	CA_5A-48A-48A	4CC#16	30	CA_2A-13A-66A-66A	
31			31	CA_5A-48A-66A	4CC#17	31	CA_2A-48D	
32			32	CA_5A-66B	4CC#18	32	CA_2A-48A-48C	
33			33	CA_5A-66C	4CC#19	33	CA_2A-48C-66A	
34			34	CA_5A-66A-66A	4CC#20	34	CA_2A-48A-48A-66A	
35			35	CA_7C-13A	4CC#21	35	CA_2A-66A-66B	
36			36	CA_7A-7A-13A	4CC#22	36	CA_2A-66A-66A-66A	
37			37	CA_7C-66A	4CC#23	37	CA_4A-4A-5B	
38			38	CA_7A-7A-66A	4CC#24	38	CA_4A-48D	
39			39	CA_13A-48C	4CC#25	39	CA_5B-66B	
40			40	CA_13A-48A-48A	4CC#26	40	CA_5B-66C	
41			41	CA_13A-48A-66A	4CC#27	41	CA_5B-66A-66A	
42			42	CA_13A-66B	4CC#28	42	CA_5A-5A-66B	
43			43	CA_13A-66C	4CC#29	43	CA_5A-5A-66C	
44			44	CA_13A-66A-66A	4CC#30	44	CA_5A-5A-66A-66A	



45			45	CA_48D	4CC#31	45	CA_5A-48D	
46			46	CA_48A-48C	4CC#32	46	CA_5A-48A-48C	
47			47	CA_48A-48A-48A		47	CA_5A-48C-66A	
48			48	CA_48C-66A	4CC#33	48	CA_5A-48A-48A-66A	
49			49	CA_48A-48A-66A	4CC#34	49	CA_13A-48D	
50			50	CA_48A-66B	4CC#53	50	CA_13A-48A-48C	
51			51	CA_48A-66C	4CC#54	51	CA_13A-48C-66A	
52			52	CA_48A-66A-66A	4CC#52	52	CA_13A-48A-48A-66A	
53			53	CA_66A-66B	4CC#55	53	CA_13A-48A-66B	
54			54	CA_66A-66C		54	CA_13A-48A-66C	
55			55	CA_66A-66A-66A	4CC#68	55	CA_13A-66A-66B	
56			56			56	CA_13A-66A-66A-66A	
57			57			57	CA_48C-48C	
58			58			58	CA_48E	
59			59			59	CA_48A-48D	
60			60			60	CA_48D-66A	
61			61			61	CA_48A-48C-66A	
62			62			62	CA_48C-66B	
63			63			63	CA_48C-66C	
64			64			64	CA_48C-66A-66A	
65			65			65	CA_48A-48A-66B	
66			66			66	CA_48A-48A-66C	
67			67			67	CA_48A-48A-66A-66A	
68			68			68	CA_48A-66A-66A-66A	

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

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

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

**LTE 4x4 MIMO (Downlink)**

This device supports downlink 4x4 MIMO operations for LTE Bands 2/4/7/25/30/41/48/66 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

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

4X4 MIMO	Band
	LTE Band B2/4/7/25/30/41/48/66

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

2CC Uplink Carrier Aggregation		
Number	Combination	Ant No.
1	5B	Ant 0/1
2	41C	Ant 6/8
3	48B	Ant 3/4/5/8
4	48C	Ant 3/4/5/8
5	66B	Ant 0/1
6	66C	Ant 0/1

**<Intra-band>**

**General Note:**

- i. The device supports intra-band uplink carrier aggregation for LTE B5/41/48/66 with a maximum of two component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. The device supports uplink carrier aggregation with a maximum of two component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
- iii. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iv. Additional SAR measurement for LTE UL CA whit 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.
- v. LTE CA\_66/48B test was covered by CA\_66/48C; therefore, SAR was only assessed for CA\_66/48C.



<Inter-band uplink carrier aggregation consideration>

CA	Main Antenna Tx0	Main Antenna Tx1	ASDiv Tx0	ASDiv Tx1
CA_2A-4A	Ant 0	Ant 1	Ant 1	Ant 0
CA_2A-5A	Ant 0	Ant 1	Ant 1	Ant 0
CA_2A-12A	Ant 0	Ant 1	Ant 1	Ant 0
CA_2A-13A	Ant 0	Ant 1	Ant 1	Ant 0
CA_2A-14A	Ant 0	Ant 1	Ant 1	Ant 0
CA_2A-48A	Ant 0	Ant 3	Ant 1	Ant 4/5/8
CA_2A-66A	Ant 0	Ant 1	Ant 1	Ant 0
CA_4A-5A	Ant 0	Ant 1	Ant 1	Ant 0
CA_4A-12A	Ant 0	Ant 1	Ant 1	Ant 0
CA_4A-13A	Ant 0	Ant 1	Ant 1	Ant 0
CA_5A-30A	Ant 1	Ant 6		
CA_5A-66A	Ant 1	Ant 0	Ant 0	Ant 1
CA_7A-66A	Ant 6	Ant 1		
CA_12A-30A	Ant 1	Ant 6		
CA_12A-66A	Ant 1	Ant 0	Ant 0	Ant 1
CA_13A-66A	Ant 1	Ant 0	Ant 0	Ant 1
CA_14A-30A	Ant 1	Ant 6		
CA_14A-66A	Ant 1	Ant 0	Ant 0	Ant 1
CA_48A-66A	Ant 3	Ant 0	Ant 4/5/8	Ant 1

General Note:

1. The single carrier of inter band CA uplink power level is the same as Non-CA standalone LTE power level.
2. For Inter band CA co-located SAR analysis is performed using standalone SAR summed together and they are more conservatively for inter band CA.



### **5G NR Output Power (Unit: dBm)**

#### **General Note:**

1. 5G NR n2/n5/n7/n12/n25/n30/n66/n71/n41/n48/n77/n78 is NSA mode.
2. 5G NR n2/n5/n12/n14/n25/n26/n30/n66/n70/n71/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-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
  - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
  - c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
  - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
  - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
  - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
  - g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.
5. 5G NR n77 supports HPUE, HPUE power and SAR testing performed separately.
6. 5G NR n77 HUPE with higher power, 5G NR n77 HUPE SAR can represent power class 3 level SAR.
7. 5G NR n41/n77 supports MIMO mode only limit to SA mode. For per chain maximum power of MIMO mode power level is SISO mode power level (standalone SA mode). MIMO SAR base on standalone SAR summed together as MIMO SAR.
8. 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.
9. For the maximum power level of NSA mode NR band is the same as NR SISO power level in UL MIMO mode, so NSA SAR can represent NR SISO SAR in UL MIMO mode.
10. 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.
11. 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.
12. 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.
13. For Inter-band CA and NR DC bands co-located SAR analysis is performed using standalone SAR summed together and they are more conservatively for Inter-band CA and NR DC bands.

<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 <sup>2</sup>
	QPSK		$\leq 1$	0
	16 QAM		$\leq 2$	$\leq 1$
	64 QAM			
CP-OFDM	256 QAM		$\leq 2.5$	
	QPSK	$\leq 3$		$\leq 1.5$
	16 QAM	$\leq 3$		$\leq 2$
	64 QAM		$\leq 3.5$	
	256 QAM		$\leq 6.5$	

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	$\leq 3.5$	$\leq 0.5$	0
	QPSK	$\leq 3.5$	$\leq 1$	0
	16 QAM	$\leq 3.5$	$\leq 2$	$\leq 1$
	64 QAM	$\leq 3.5$		$\leq 2.5$
	256 QAM		$\leq 4.5$	
CP-OFDM	QPSK	$\leq 3.5$	$\leq 3$	$\leq 1.5$
	16 QAM	$\leq 3.5$	$\leq 3$	$\leq 2$
	64 QAM		$\leq 3.5$	
	256 QAM		$\leq 6.5$	

ENDC	Main Antenna Tx		ASDiv Tx	
	LTE TX	NR TX	LTE TX	NR TX
DC_2A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_2A_n5A	Ant 0	Ant 1	Ant 1	Ant 0
DC_2A_n12A	Ant 0	Ant 1	Ant 1	Ant 0
DC_2A_n25A	Ant 0	Ant 1	Ant 1	Ant 0
DC_2A_n30A	Ant 1	Ant 6		
DC_2A_n41A	Ant 0	Ant 6	Ant 1	Ant 8
DC_2A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_2A_n71A	Ant 0	Ant 1	Ant 1	Ant 0
DC_2A_n77A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_2A_n78A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_4A_n41A	Ant 0	Ant 6	Ant 1	Ant 8
DC_5A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_5A_n30A	Ant 1	Ant 6		
DC_5A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_5A_n77A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_5A_n78A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_7A_n2A	Ant 6	Ant 1		
DC_7A_n5A	Ant 6	Ant 1		
DC_7A_n66A	Ant 6	Ant 1		
DC_7A_n71A	Ant 6	Ant 1		
DC_7A_n77A	Ant 6	Ant 5		
DC_7A_n78A	Ant 6	Ant 5		
DC_12A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_12A_n25A	Ant 0	Ant 1	Ant 1	Ant 0
DC_12A_n30A	Ant 1	Ant 6		
DC_12A_n41A	Ant 0	Ant 6	Ant 1	Ant 8
DC_12A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_12A_n77A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8



DC_12A_n78A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_13A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_13A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_13A_n77A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_13A_n78A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_14A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_14A_n30A	Ant 1	Ant 6		
DC_14A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_14A_n77A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_25A_n41A	Ant 0	Ant 6	Ant 1	Ant 8
DC_25A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_25A_n78A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_26A_n25A	Ant 0	Ant 1	Ant 1	Ant 0
DC_26A_n41A	Ant 0	Ant 6	Ant 1	Ant 8
DC_30A_n2A	Ant 6	Ant 1		
DC_30A_n5A	Ant 6	Ant 1		
DC_30A_n66A	Ant 6	Ant 1		
DC_30A_n77A	Ant 6	Ant 5		
DC_48A_n2A	Ant 3	Ant 1	Ant 3/4/5/8	Ant 0/1
DC_48A_n5A	Ant 3	Ant 1	Ant 3/4/5/8	Ant 0/1
DC_48A_n25A	Ant 3	Ant 1	Ant 3/4/5/8	Ant 0/1
DC_48A_n48A	Ant 3	Ant 5	Ant 4/5/8	Ant 3/4/8
DC_48A_n66A	Ant 3	Ant 1	Ant 3/4/5/8	Ant 0/1
DC_48A_n77A	Ant 3	Ant 5	Ant 4/5/8	Ant 3/4/8
DC_66A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n5A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n7A	Ant 0	Ant 8		
DC_66A_n12A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n25A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n30A	Ant 1	Ant 6		
DC_66A_n41A	Ant 0	Ant 6	Ant 1	Ant 8
DC_66A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n71A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n77A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_66A_n78A	Ant 0	Ant 3	Ant 1/0	Ant 3/4/5/8
DC_71A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_71A_n41A	Ant 0	Ant 6	Ant 1	Ant 8
DC_71A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_71A_n78A	Ant 0	Ant 3	Ant 1	Ant 4/5/8

Note: 5GNR n7 ant 8 only for EN-DC combination.



**Inter-Band CA Configuration:**

CA	Main Antenna Tx0	Main Antenna Tx1	ASDiv Tx0	ASDiv Tx1
CA_n2A-n5A	Ant 1	Ant 0	Ant 0	Ant 1
CA_n2A-n48A	Ant 0	Ant 3	Ant 1	Ant 4/5/8
CA_n2A-n66A	Ant 1	Ant 0	Ant 0	Ant 1
CA_n2A-n77A	Ant 0	Ant 3	Ant 1	Ant 4/5/8
CA_n5A-n48A	Ant 0	Ant 3	Ant 1	Ant 4/5/8
CA_n5A-n66A	Ant 0	Ant 1	Ant 1	Ant 0
CA_n5A-n77A	Ant 1	Ant 3	Ant 0	Ant 4/5/8
CA_n25A-n41A	Ant 1	Ant 6	Ant 0	Ant 8
CA_n26A-n66A	Ant 0	Ant 1	Ant 1	Ant 0
CA_n26A-n70A	Ant 0	Ant 1	Ant 1	Ant 0
CA_n41A-n66A	Ant 6	Ant 1	Ant 8	Ant 0
CA_n41A-n71A	Ant 6	Ant 1	Ant 8	Ant 0
CA_n41A-n77A	Ant 8	Ant 3	Ant 6	Ant 4/5/8
CA_n41A-n78A	Ant 8	Ant 3	Ant 6	Ant 4/5/8
CA_n48A-n66A	Ant 3	Ant 0	Ant 4/5/8	Ant 1
CA_n48A-n70A	Ant 3	Ant 0	Ant 4/5/8	Ant 1
CA_n48A-n77A	Ant 3	Ant 5	Ant 4/5/8	Ant 3/4/8
CA_n66A-n71A	Ant 1	Ant 0	Ant 0	Ant 1
CA_n66A-n77A	Ant 0	Ant 3	Ant 1	Ant 4/5/8
CA_n70A-n71A	Ant 0	Ant 1	Ant 1	Ant 0

**Inter-Band NR DC Configuration:**

NRDC	Main Antenna Tx		ASDiv Tx	
	NR TX	NR TX	NR TX	NR TX
DC_n2A-n48A	Ant 1	Ant 3	Ant 0/1	Ant 3/4/5/8
DC_n2A-n77A	Ant 1	Ant 3	Ant 0/1	Ant 3/4/5/8
DC_n5A-n48A	Ant 1	Ant 3	Ant 0/1	Ant 3/4/5/8
DC_n5A-n77A	Ant 1	Ant 3	Ant 0/1	Ant 3/4/5/8
DC_n48A-n66A	Ant 3	Ant 1	Ant 3/4/5/8	Ant 0/1
DC_n66A-n77A	Ant 1	Ant 3	Ant 0/1	Ant 3/4/5/8

**NR UL MIMO Bands Configuration:**

NR UL MIMO	TX Ant	TX Ant
FR1 n41	Ant5	Ant6
FR1 n77	Ant3/Ant4	Ant5/Ant8

**<WLAN Conducted Power>**

**General Note:**

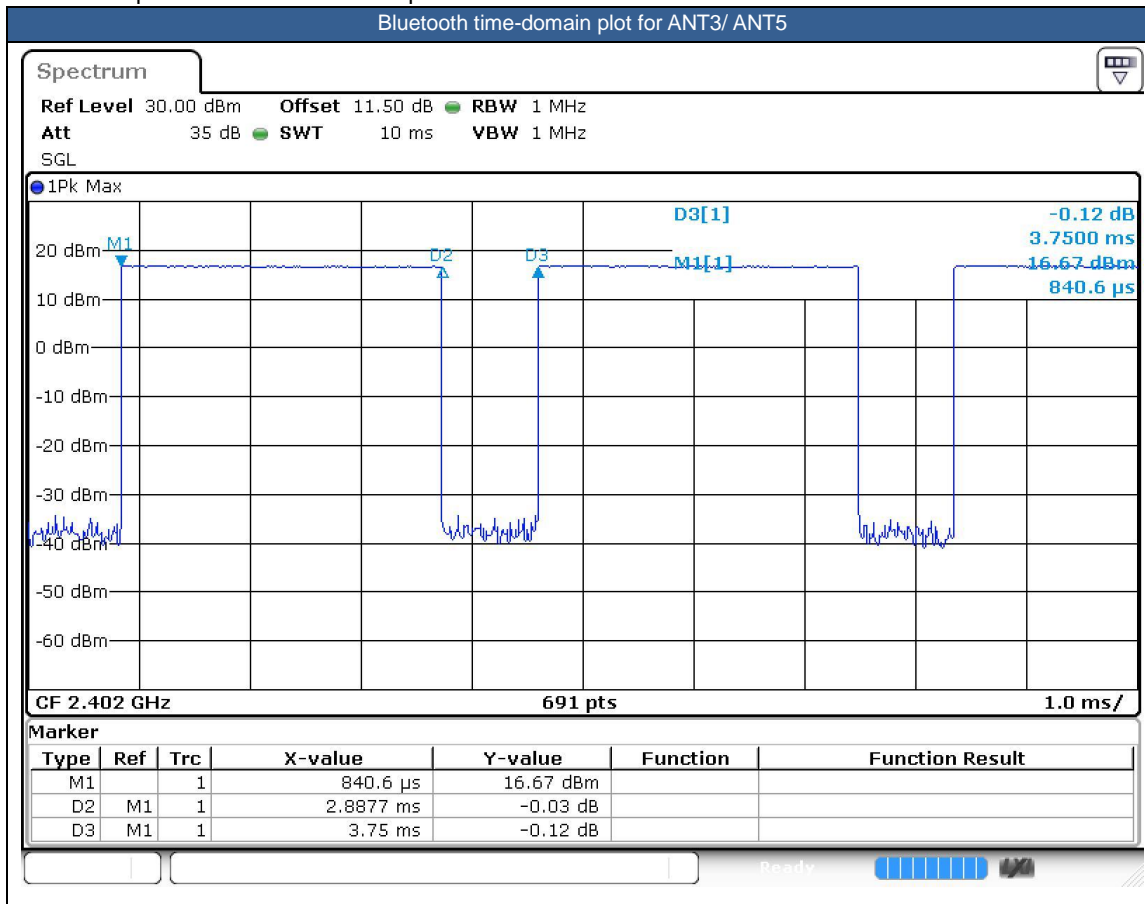
1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. 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.
2. 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).
3. 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.
4. 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  $\leq 0.4$  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  $\leq 0.8$  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  $\leq 1.2$  W/kg or all required channels are tested.
5. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
6. The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.



<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 77.01 % for as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to100% for Bluetooth reported SAR calculation





## **14. Antenna Location**

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



## 15. SAR Test Results

### General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of BT/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 WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
  - d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
  - e. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
  - f. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - $\leq 0.8$  W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
  - $\leq 0.6$  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
  - $\leq 0.4$  W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is  $\geq 0.8$ W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level, which 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.
5. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and Handheld.
6. For some WWAN bands, sensor on reduced power level is higher than hotspot reduced power level, so front/back sensor on SAR can represent hotspot conservatively.
7. This device supports HPUE for LTE Band 41 with class 2 level, HPUE power has been measured separately. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
8. 5G NR n41/n77 supports HPUE, HPUE power and SAR testing performed separately.
9. 5G NR n41/n77 HUPE with higher power, 5G NR n41/n77 HUPE SAR can represent power class 3 level SAR.
10. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
11. For 5G NR FDD/TDD supports SCS15KHz and SCS30KHz, after verification for 30KHz at FDD power level is less than 15KHz at FDD power level, also verification for 15KHz at TDD power level is less than 30KHz at TDD power level, so only show 15KHz at FDD power and 30KHz at TDD power, and chose higher power which is SCS15KHz for FDD bands and SCS30KHz for TDD bands to perform SAR testing.
12. 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.
13. 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.



14. 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.
15. 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.
16. This device supports 5G NR FR1 bands, including NSA mode and SA mode. NSA and SA mode performed SAR separately.
17. For 5G NR EN-DC mode, standalone SAR performed for 5G NR band with the maximum power, EN-DC SAR summed 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
18. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
  - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850/1900, WCDMA Band II/IV, LTE Band 2/4/7/25/30/66/38/41/48, 5G NR n2/n7/n25/n30/ n66/n41/n48/n70/n77/n78, WLAN2.4G&WLAN5.2/5.8GHz, therefore product specific 10g SAR is necessary.
  - b. WLAN 5.3/5.5/6GHz tested the product specific 10g SAR since it has no hotspot mode.
  - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
19. For distance SAR and non-distance SAR, always chose higher SAR to do co-located analysis.

**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. Therefore, the GPRS 4Tx slots for GSM850/GSM1900 are considered as the primary mode.
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  $\leq$  ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

**WCDMA Note:**

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is  $\leq$  ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is  $\leq$  1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

**LTE Note:**

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq$  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 ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq$  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 ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth



is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.

6. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B2 / B4 / B5 / B17 / B38 SAR test was covered by LTE B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. the maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion
  - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

**5G NR Note:**

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
  - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
  - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
  - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
  - d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not  $\frac{1}{2}$  dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
  - e. Smaller bandwidth output power for each RB allocation configuration for this device will not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device
  - f. For 5G FR1 n5/n7/n66/n41/n77/n78 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  $\leq 1.2$  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  $\leq 1.2$  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  $\leq 0.8$  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  $\leq 1.2$  W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. 802.11ax supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
7. The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
8. Based on WLAN2.4GHz and Bluetooth share the same antenna, so Bluetooth RF exposure evaluation chose the worst position of WLAN 2.4GHz to perform Bluetooth SAR test, and used this Bluetooth SAR value conservatively represent other position do co-located analysis with WWAN.



15.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)	
<b>750MHz</b>																			
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Full Power	23095	707.5	22.90	24.00	1.288	0.07	0.162	0.209	
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	Full Power	23095	707.5	21.96	23.00	1.271	0.06	0.130	0.165	
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Full Power	23095	707.5	22.90	24.00	1.288	0.08	0.095	0.122	
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	Full Power	23095	707.5	21.96	23.00	1.271	0.01	0.075	0.095	
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Full Power	23095	707.5	22.90	24.00	1.288	-0.05	0.147	0.189	
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	Full Power	23095	707.5	21.96	23.00	1.271	0.09	0.119	0.151	
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Full Power	23095	707.5	22.90	24.00	1.288	0.04	0.081	0.104	
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	Full Power	23095	707.5	21.96	23.00	1.271	0.07	0.066	0.084	
01	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Reduced	23095	707.5	22.38	23.00	1.153	0.12	0.921	1.062	
	LTE Band 12-ENDC	10M	QPSK	1	0	-	Right Cheek	0mm	Ant1	Reduced	23095	707.5	19.32	20.00	1.169	-0.15	0.505	0.591	
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	Reduced	23095	707.5	21.42	22.00	1.143	0.05	0.551	0.630	
	LTE Band 12	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Reduced	23095	707.5	21.31	22.00	1.172	0.09	0.556	0.652	
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Reduced	23095	707.5	22.38	23.00	1.153	0.01	0.567	0.654	
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	Reduced	23095	707.5	21.42	22.00	1.143	0.08	0.473	0.541	
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Reduced	23095	707.5	22.38	23.00	1.153	0.07	0.458	0.528	
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	Reduced	23095	707.5	21.42	22.00	1.143	-0.01	0.356	0.407	
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Reduced	23095	707.5	22.38	23.00	1.153	0.08	0.425	0.490	
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	Reduced	23095	707.5	21.42	22.00	1.143	0.06	0.332	0.379	
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	Full Power	141500	707.5	22.87	24.00	1.297	0.09	0.136	0.176	
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 0	Full Power	141500	707.5	22.62	24.00	1.374	-0.04	0.154	0.212	
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	Full Power	141500	707.5	22.87	24.00	1.297	-0.07	0.078	0.101	
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 0	Full Power	141500	707.5	22.62	24.00	1.374	0.08	0.074	0.102	
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	Full Power	141500	707.5	22.87	24.00	1.297	-0.06	0.140	0.182	
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 0	Full Power	141500	707.5	22.62	24.00	1.374	0.01	0.137	0.188	
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	Full Power	141500	707.5	22.87	24.00	1.297	0.05	0.069	0.090	
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 0	Full Power	141500	707.5	22.62	24.00	1.374	-0.07	0.081	0.111	
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	Full Power	141500	707.5	22.95	24.00	1.274	0.05	0.495	0.630	
02	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 1	Full Power	141500	707.5	22.92	24.00	1.282	-0.01	0.609	0.781	
	FR1 n12-NSA	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant1	Reduced	141500	707.5	20.96	22.00	1.271	-0.02	0.396	0.503	
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	Full Power	141500	707.5	22.95	24.00	1.274	-0.08	0.405	0.516	
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 1	Full Power	141500	707.5	22.92	24.00	1.282	0.04	0.534	0.685	
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	Full Power	141500	707.5	22.95	24.00	1.274	0.01	0.308	0.392	
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 1	Full Power	141500	707.5	22.92	24.00	1.282	0.07	0.406	0.521	
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	Full Power	141500	707.5	22.95	24.00	1.274	0.03	0.340	0.433	
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 1	Full Power	141500	707.5	22.92	24.00	1.282	-0.09	0.408	0.523	
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Full Power	23230	782	22.53	24.00	1.403	0.02	0.165	0.231	
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	Full Power	23230	782	21.55	23.00	1.396	-0.05	0.132	0.184	
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Full Power	23230	782	22.53	24.00	1.403	0.08	0.092	0.129	
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	Full Power	23230	782	21.55	23.00	1.396	-0.06	0.072	0.101	
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Full Power	23230	782	22.53	24.00	1.403	0.07	0.135	0.189	
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	Full Power	23230	782	21.55	23.00	1.396	0.09	0.103	0.144	
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Full Power	23230	782	22.53	24.00	1.403	0.1	0.089	0.125	
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	Full Power	23230	782	21.55	23.00	1.396	0.02	0.071	0.099	
03	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Full Power	23230	782	23.04	24.00	1.247	-0.02	0.861	1.074	
	LTE Band 13-ENDC	10M	QPSK	1	0	-	Right Cheek	0mm	Ant1	Reduced	23230	782	20.18	21.00	1.208	0.05	0.474	0.573	
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	Full Power	23230	782	21.88	23.00	1.294	0.06	0.557	0.721	
	LTE Band 13	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Full Power	23230	782	21.84	23.00	1.306	-0.05	0.527	0.688	
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Full Power	23230	782	23.04	24.00	1.247	0.01	0.507	0.632	
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	Full Power	23230	782	21.88	23.00	1.294	-0.08	0.431	0.558	
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Full Power	23230	782	23.04	24.00	1.247	0.07	0.490	0.611	
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	Full Power	23230	782	21.88	23.00	1.294	0.06	0.382	0.494	





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	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Full Power	23230	782	23.04	24.00	1.247	0.05	0.438	0.546
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	Full Power	23230	782	21.88	23.00	1.294	-0.08	0.349	0.452
	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Full Power	23330	793	22.77	24.00	1.327	0.07	0.213	0.283
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	Full Power	23330	793	21.70	23.00	1.349	0.07	0.170	0.229
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Full Power	23330	793	22.77	24.00	1.327	0.09	0.131	0.174
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	Full Power	23330	793	21.70	23.00	1.349	-0.11	0.101	0.136
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Full Power	23330	793	22.77	24.00	1.327	0.02	0.178	0.236
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	Full Power	23330	793	21.70	23.00	1.349	0.07	0.138	0.186
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Full Power	23330	793	22.77	24.00	1.327	-0.03	0.132	0.175
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	Full Power	23330	793	21.70	23.00	1.349	0.06	0.103	0.139
04	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Reduced	23330	793	21.47	22.50	1.268	0.19	0.945	<b>1.198</b>
	LTE Band 14-ENDC	10M	QPSK	1	0	-	Right Cheek	0mm	Ant1	Reduced	23330	793	18.38	19.50	1.294	0.09	0.449	0.581
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	Reduced	23330	793	20.36	21.50	1.300	0.08	0.788	1.025
	LTE Band 14	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Reduced	23330	793	20.32	21.50	1.312	0.01	0.812	1.066
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Reduced	23330	793	21.47	22.50	1.268	0.05	0.765	0.970
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	Reduced	23330	793	20.36	21.50	1.300	-0.04	0.642	0.835
	LTE Band 14	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Reduced	23330	793	20.32	21.50	1.312	0.02	0.608	0.798
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Reduced	23330	793	21.47	22.50	1.268	0.08	0.604	0.766
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	Reduced	23330	793	20.36	21.50	1.300	0.06	0.526	0.684
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Reduced	23330	793	21.47	22.50	1.268	0.01	0.626	0.794
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	Reduced	23330	793	20.36	21.50	1.300	-0.05	0.494	0.642
	FR1 n14	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	Full Power	158600	793	22.95	24.00	1.274	0.07	0.154	0.196
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 0	Full Power	158600	793	22.79	24.00	1.321	0.03	0.138	0.182
	FR1 n14	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	Full Power	158600	793	22.95	24.00	1.274	0.01	0.089	0.113
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 0	Full Power	158600	793	22.79	24.00	1.321	-0.08	0.085	0.112
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	Full Power	158600	793	22.95	24.00	1.274	0.07	0.130	0.166
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 0	Full Power	158600	793	22.79	24.00	1.321	0.06	0.116	0.153
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	Full Power	158600	793	22.95	24.00	1.274	-0.04	0.097	0.124
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 0	Full Power	158600	793	22.79	24.00	1.321	0.08	0.084	0.111
05	FR1 n14	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	Reduced	158600	793	22.49	23.00	1.125	0.06	0.843	<b>0.948</b>
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 1	Reduced	158600	793	22.48	23.00	1.127	0.05	0.815	0.919
	FR1 n14	10M	QPSK	50	0	DFT-15	Right Cheek	0mm	Ant 1	Reduced	158600	793	22.35	23.00	1.161	0.01	0.725	0.842
	FR1 n14	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	Reduced	158600	793	22.49	23.00	1.125	0.07	0.630	0.709
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 1	Reduced	158600	793	22.48	23.00	1.127	-0.01	0.662	0.746
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	Reduced	158600	793	22.49	23.00	1.125	0.08	0.583	0.656
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 1	Reduced	158600	793	22.48	23.00	1.127	-0.05	0.547	0.617
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	Reduced	158600	793	22.49	23.00	1.125	0.09	0.521	0.586
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 1	Reduced	158600	793	22.48	23.00	1.127	-0.04	0.518	0.584
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Full Power	133322	683	22.36	24.00	1.459	0.05	0.110	0.160
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	Full Power	133322	683	21.41	23.00	1.442	0.08	0.083	0.120
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Full Power	133322	683	22.36	24.00	1.459	0.07	0.067	0.098
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	Full Power	133322	683	21.41	23.00	1.442	-0.09	0.051	0.074
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Full Power	133322	683	22.36	24.00	1.459	0.08	0.101	0.147
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	Full Power	133322	683	21.41	23.00	1.442	0.06	0.083	0.120
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Full Power	133322	683	22.36	24.00	1.459	-0.1	0.051	0.074
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	Full Power	133322	683	21.41	23.00	1.442	0.02	0.041	0.059
06	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Full Power	133322	683	22.63	24.00	1.371	0.03	0.589	<b>0.807</b>
	LTE Band 71-ENDC	20M	QPSK	1	0	-	Right Cheek	0mm	Ant1	Reduced	133322	683	21.64	23.00	1.368	0.08	0.408	0.558
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Full Power	133322	683	21.65	23.00	1.365	0.06	0.495	0.675
	LTE Band 71	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	Full Power	133322	683	21.55	23.00	1.396	0.04	0.514	0.718
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Full Power	133322	683	22.63	24.00	1.371	0.07	0.413	0.566
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Full Power	133322	683	21.65	23.00	1.365	-0.08	0.305	0.416
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Full Power	133322	683	22.63	24.00	1.371	0.01	0.288	0.395
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	Full Power	133322	683	21.65	23.00	1.365	-0.02	0.227	0.310
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Full Power	133322	683	22.63	24.00	1.371	0.08	0.292	0.400
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	Full Power	133322	683	21.65	23.00	1.365	0.01	0.234	0.319



**FCC SAR Test Report**

**Report No. : FA240834**

	FR1 n71	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	Full Power	136100	680.5	23.01	24.00	1.256	0.05	0.086	0.108
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	Full Power	136100	680.5	22.93	24.00	1.279	0.04	0.093	0.119
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	Full Power	136100	680.5	23.01	24.00	1.256	0.03	0.000	0.000
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	Full Power	136100	680.5	22.93	24.00	1.279	-0.01	0.054	0.069
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	Full Power	136100	680.5	23.01	24.00	1.256	0.08	0.088	0.111
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	Full Power	136100	680.5	22.93	24.00	1.279	0.07	0.092	0.118
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	Full Power	136100	680.5	23.01	24.00	1.256	0.08	0.000	0.000
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	Full Power	136100	680.5	22.93	24.00	1.279	-0.01	0.054	0.069
07	FR1 n71	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	Full Power	136100	680.5	23.11	24.00	1.227	0.03	0.465	<b>0.571</b>
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	Full Power	136100	680.5	23.03	24.00	1.250	0.02	0.412	0.515
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	Full Power	136100	680.5	23.11	24.00	1.227	-0.08	0.348	0.427
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	Full Power	136100	680.5	23.03	24.00	1.250	0.01	0.346	0.433
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	Full Power	136100	680.5	23.11	24.00	1.227	0.09	0.257	0.315
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	Full Power	136100	680.5	23.03	24.00	1.250	0.06	0.255	0.319
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	Full Power	136100	680.5	23.11	24.00	1.227	0.03	0.253	0.311
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	Full Power	136100	680.5	23.03	24.00	1.250	0.04	0.232	0.290
<b>835MHz</b>																		
08	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 0	Full Power	189	836.4	28.82	30.00	1.312	0.09	0.290	<b>0.381</b>
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	Full Power	189	836.4	28.82	30.00	1.312	0.04	0.162	0.213
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	Full Power	189	836.4	28.82	30.00	1.312	-0.05	0.227	0.298
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	Full Power	189	836.4	28.82	30.00	1.312	0.01	0.143	0.188
09	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	Full Power	4182	836.4	23.41	24.00	1.146	0.02	0.142	<b>0.163</b>
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	Full Power	4182	836.4	23.41	24.00	1.146	0.06	0.064	0.073
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	Full Power	4182	836.4	23.41	24.00	1.146	0.04	0.101	0.116
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	Full Power	4182	836.4	23.41	24.00	1.146	0.01	0.063	0.072
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Full Power	26865	831.5	23.16	24.00	1.213	0.03	0.205	0.249
	LTE Band 5B	10M	QPSK	1	49	-	Right Cheek	0mm	Ant 0	Full Power	20525+20624	836.5+846.4	22.78	24.00	1.324	0.06	0.182	0.241
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	Full Power	26865	831.5	22.23	23.00	1.194	0.08	0.159	0.190
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Full Power	26865	831.5	23.16	24.00	1.213	-0.09	0.096	0.116
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	Full Power	26865	831.5	22.23	23.00	1.194	0.04	0.072	0.086
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Full Power	26865	831.5	23.16	24.00	1.213	0.05	0.173	0.210
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	Full Power	26865	831.5	22.23	23.00	1.194	0.06	0.137	0.164
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Full Power	26865	831.5	23.16	24.00	1.213	0.01	0.100	0.121
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	Full Power	26865	831.5	22.23	23.00	1.194	0.06	0.077	0.092
10	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Full Power	26865	831.5	23.02	24.00	1.253	0.02	0.917	<b>1.149</b>
	LTE Band 26-ENDC	15M	QPSK	1	0	-	Right Cheek	0mm	Ant1	Reduced	26865	831.5	20.04	21.00	1.247	0.15	0.465	0.580
	LTE Band 5B	10M	QPSK	1	49	-	Right Cheek	0mm	Ant 1	Full Power	20525+20624	836.5+846.4	22.56	24.00	1.393	0.08	0.811	1.129
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	Full Power	26865	831.5	22.06	23.00	1.242	0.11	0.560	0.695
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 1	Full Power	26865	831.5	22.02	23.00	1.253	0.07	0.619	0.776
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Full Power	26865	831.5	23.02	24.00	1.253	0.05	0.637	0.798
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	Full Power	26865	831.5	22.06	23.00	1.242	0.06	0.499	0.620
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Full Power	26865	831.5	23.02	24.00	1.253	-0.08	0.844	1.058
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	Full Power	26865	831.5	22.06	23.00	1.242	0.06	0.727	0.903
	LTE Band 26	15M	QPSK	75	0	-	Left Cheek	0mm	Ant 1	Full Power	26865	831.5	22.02	23.00	1.253	-0.09	0.721	0.904
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Full Power	26865	831.5	23.02	24.00	1.253	0.07	0.851	1.066
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	Full Power	26865	831.5	22.06	23.00	1.242	0.08	0.766	0.951
	LTE Band 26	15M	QPSK	75	0	-	Left Tilted	0mm	Ant 1	Full Power	26865	831.5	22.02	23.00	1.253	0.09	0.483	0.605
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	Full Power	166300	831.5	22.88	24.00	1.294	0.05	0.073	0.094
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	Full Power	166300	831.5	22.76	24.00	1.330	0.04	0.200	0.266
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	Full Power	166300	831.5	22.88	24.00	1.294	0.06	0.010	0.013
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	Full Power	166300	831.5	22.76	24.00	1.330	-0.01	0.093	0.124
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	Full Power	166300	831.5	22.88	24.00	1.294	0.08	0.062	0.080
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	Full Power	166300	831.5	22.76	24.00	1.330	-0.04	0.162	0.216
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	Full Power	166300	831.5	22.88	24.00	1.294	0.09	0.000	0.000
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	Full Power	166300	831.5	22.76	24.00	1.330	0.01	0.089	0.118
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	Reduced	166300	831.5	21.50	22.50	1.259	0.08	0.785	0.988

**Sporton International Inc. (Kunshan)**

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FCC ID : IHDT56AE7

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11	FR1 n26	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	Reduced	166300	831.5	21.45	22.50	1.274	-0.03	0.813	<b>1.035</b>
	FR1 n26-NSA	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant1	Reduced	166300	831.5	18.21	19.00	1.199	0.19	0.447	0.536
	FR1 n26	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 1	Reduced	166300	831.5	21.39	22.50	1.291	0.11	0.714	0.922
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	Reduced	166300	831.5	21.50	22.50	1.259	0.09	0.633	0.797
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	Reduced	166300	831.5	21.45	22.50	1.274	0.01	0.625	0.796
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	Reduced	166300	831.5	21.50	22.50	1.259	0.09	0.460	0.579
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	Reduced	166300	831.5	21.45	22.50	1.274	0.01	0.509	0.648
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	Reduced	166300	831.5	21.50	22.50	1.259	-0.04	0.449	0.565
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	Reduced	166300	831.5	21.45	22.50	1.274	0.02	0.430	0.548

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)	
<b>1750MHz</b>																			
12	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	Full Power	1413	1732.6	23.28	24.00	1.180	0.09	0.079	<b>0.093</b>	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	Full Power	1413	1732.6	23.28	24.00	1.180	0.09	0.046	0.054	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	Full Power	1413	1732.6	23.28	24.00	1.180	0.06	0.077	0.091	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	Full Power	1413	1732.6	23.28	24.00	1.180	0.03	0.045	0.053	
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Full Power	132322	1745	23.15	24.00	1.216	0.01	0.011	0.013	
	LTE Band 66C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 0	Full Power	132322+132520	1745+1674.8	22.96	24.00	1.271	0.11	0.009	0.011	
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	Full Power	132322	1745	22.17	23.00	1.211	-0.09	0.008	0.010	
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Full Power	132322	1745	23.15	24.00	1.216	0.04	0.007	0.009	
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	Full Power	132322	1745	22.17	23.00	1.211	0.07	0.005	0.006	
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Full Power	132322	1745	23.15	24.00	1.216	-0.05	0.010	0.012	
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	Full Power	132322	1745	22.17	23.00	1.211	0.09	0.009	0.011	
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Full Power	132322	1745	23.15	24.00	1.216	0.03	0.006	0.007	
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	Full Power	132322	1745	22.17	23.00	1.211	0.01	0.004	0.005	
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Reduced	132322	1745	16.07	17.00	1.239	0.09	0.713	0.883	
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Reduced	132072	1720	16.03	17.00	1.250	-0.05	0.545	0.681	
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Reduced	132572	1770	15.91	17.00	1.285	0.07	0.745	0.958	
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Reduced	132322	1745	15.19	16.00	1.205	-0.06	0.673	0.811	
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Reduced	132072	1720	14.98	16.00	1.265	0.01	0.444	0.562	
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Reduced	132572	1770	14.76	16.00	1.330	0.08	0.618	0.822	
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	Reduced	132322	1745	15.09	16.00	1.233	0.08	0.537	0.662	
13	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Reduced	132322	1745	16.07	17.00	1.239	-0.18	0.888	<b>1.100</b>	
	LTE Band 66-ENDC	20M	QPSK	1	0	-	Right Tilted	0mm	Ant1	Reduced	132322	1745	13.67	14.50	1.211	-0.05	0.431	0.522	
	LTE Band 66C	20M	QPSK	1	99	-	Right Tilted	0mm	Ant 1	Reduced	132322+132520	1745+1674.8	15.88	17.00	1.294	0.05	0.745	0.964	
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Reduced	132072	1720	16.03	17.00	1.250	-0.09	0.612	0.765	
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Reduced	132572	1770	15.91	17.00	1.285	0.05	0.538	0.691	
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Reduced	132322	1745	15.19	16.00	1.205	0.11	0.758	0.913	
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Reduced	132072	1720	14.98	16.00	1.265	0.07	0.488	0.617	
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Reduced	132572	1770	14.76	16.00	1.330	-0.08	0.670	0.891	
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	Reduced	132322	1745	15.09	16.00	1.233	0.06	0.589	0.726	
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Reduced	132322	1745	16.07	17.00	1.239	-0.13	0.276	0.342	
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	Reduced	132322	1745	15.19	16.00	1.205	0.01	0.221	0.266	
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Reduced	132322	1745	16.07	17.00	1.239	0.07	0.423	0.524	
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	Reduced	132322	1745	15.19	16.00	1.205	0.08	0.336	0.405	
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	Full Power	349000	1745	24.11	24.50	1.094	-0.01	0.073	0.080	
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 0	Full Power	349000	1745	24.06	24.50	1.107	0.08	0.069	0.076	
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	Full Power	349000	1745	24.11	24.50	1.094	-0.06	0.044	0.048	
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 0	Full Power	349000	1745	24.06	24.50	1.107	0.07	0.037	0.041	
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	Full Power	349000	1745	24.11	24.50	1.094	-0.08	0.061	0.067	
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 0	Full Power	349000	1745	24.06	24.50	1.107	0.05	0.056	0.062	
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	Full Power	349000	1745	24.11	24.50	1.094	0.04	0.038	0.042	
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 0	Full Power	349000	1745	24.06	24.50	1.107	0.01	0.032	0.035	
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	Reduced	349000	1745	16.58	17.50	1.236	-0.09	0.778	0.962	
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 1	Reduced	349000	1745	16.43	17.50	1.279	0.08	0.842	1.077	

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**FCC SAR Test Report**

**Report No. : FA240834**

	FR1 n66	40M	QPSK	216	0	DFT-15	Right Cheek	0mm	Ant 1	Reduced	349000	1745	16.42	17.50	1.282	0.04	0.667	0.855
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	Reduced	349000	1745	16.58	17.50	1.236	0.07	0.886	1.095
14	FR1 n66	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	Reduced	349000	1745	16.43	17.50	1.279	-0.18	0.935	<b>1.196</b>
	FR1 n66-NSA	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant1	Reduced	349000	1745	13.52	14.00	1.117	-0.16	0.535	0.598
	FR1 n66	40M	QPSK	216	0	DFT-15	Right Tilted	0mm	Ant 1	Reduced	349000	1745	16.42	17.50	1.282	0.02	0.748	0.959
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	Reduced	349000	1745	16.58	17.50	1.236	-0.05	0.338	0.418
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 1	Reduced	349000	1745	16.43	17.50	1.279	0.01	0.326	0.417
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	Reduced	349000	1745	16.58	17.50	1.236	0.03	0.412	0.509
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 1	Reduced	349000	1745	16.43	17.50	1.279	0.01	0.645	0.825
	FR1 n66	40M	QPSK	216	0	DFT-15	Left Tilted	0mm	Ant 1	Reduced	349000	1745	16.42	17.50	1.282	-0.04	0.341	0.437
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	Full Power	340500	1702.5	23.48	24.00	1.127	-0.01	0.037	0.042
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 0	Full Power	340500	1702.5	23.46	24.00	1.132	0.02	0.033	0.037
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	Full Power	340500	1702.5	23.48	24.00	1.127	0.08	0.025	0.028
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 0	Full Power	340500	1702.5	23.46	24.00	1.132	0.09	0.022	0.025
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	Full Power	340500	1702.5	23.48	24.00	1.127	0.02	0.032	0.036
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 0	Full Power	340500	1702.5	23.46	24.00	1.132	0.01	0.031	0.035
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	Full Power	340500	1702.5	23.48	24.00	1.127	0.04	0.019	0.021
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 0	Full Power	340500	1702.5	23.46	24.00	1.132	0.01	0.018	0.020
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	Reduced	340500	1702.5	16.87	18.00	1.297	0.05	0.701	0.909
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 1	Reduced	340500	1702.5	16.75	18.00	1.334	0.09	0.759	1.012
	FR1 n70	15M	QPSK	75	0	DFT-15	Right Cheek	0mm	Ant 1	Reduced	340500	1702.5	16.71	18.00	1.346	0.04	0.640	0.861
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	Reduced	340500	1702.5	16.87	18.00	1.297	0.01	0.757	0.982
15	FR1 n70	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 1	Reduced	340500	1702.5	16.75	18.00	1.334	-0.05	0.858	<b>1.144</b>
	FR1 n70-NSA	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant1	Reduced	340500	1702.5	13.81	15.00	1.315	-0.01	0.447	0.588
	FR1 n70	15M	QPSK	75	0	DFT-15	Right Tilted	0mm	Ant 1	Reduced	340500	1702.5	16.71	18.00	1.346	-0.05	0.699	0.941
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	Reduced	340500	1702.5	16.87	18.00	1.297	0.04	0.343	0.445
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 1	Reduced	340500	1702.5	16.75	18.00	1.334	0.03	0.308	0.411
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	Reduced	340500	1702.5	16.87	18.00	1.297	-0.11	0.361	0.468
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 1	Reduced	340500	1702.5	16.75	18.00	1.334	0.06	0.374	0.499
<b>1900MHz</b>																		
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 0	Full Power	661	1880	25.57	26.50	1.239	0.01	0.059	0.073
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	Full Power	661	1880	25.57	26.50	1.239	0.14	0.036	0.045
16	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	Full Power	661	1880	25.57	26.50	1.239	0.11	0.070	<b>0.087</b>
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	Full Power	661	1880	25.57	26.50	1.239	-0.09	0.048	0.059
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	Full Power	9400	1880	23.37	24.00	1.156	-0.05	0.081	0.094
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	Full Power	9400	1880	23.37	24.00	1.156	0.16	0.056	0.065
17	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	Full Power	9400	1880	23.37	24.00	1.156	0.03	0.092	<b>0.106</b>
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	Full Power	9400	1880	23.37	24.00	1.156	0.06	0.074	0.086
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Full Power	26340	1880	22.91	24.00	1.285	-0.12	0.043	0.055
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	Full Power	26340	1880	21.99	23.00	1.262	0.03	0.033	0.042
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Full Power	26340	1880	22.91	24.00	1.285	0.02	0.032	0.041
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	Full Power	26340	1880	21.99	23.00	1.262	-0.09	0.025	0.032
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Full Power	26340	1880	22.91	24.00	1.285	0.09	0.052	0.067
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	Full Power	26340	1880	21.99	23.00	1.262	0.08	0.039	0.049
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Full Power	26340	1880	22.91	24.00	1.285	-0.05	0.034	0.044
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	Full Power	26340	1880	21.99	23.00	1.262	0.15	0.026	0.033
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Reduced	26340	1880	15.69	17.00	1.352	0.13	0.866	1.171
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Reduced	26140	1860	15.52	17.00	1.406	0.08	0.723	1.017
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Reduced	26590	1905	15.46	17.00	1.426	0.12	0.620	0.884
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Reduced	26340	1880	14.75	16.00	1.334	-0.07	0.679	0.905
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Reduced	26140	1860	14.44	16.00	1.432	0.15	0.577	0.826
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Reduced	26590	1905	14.59	16.00	1.384	-0.07	0.500	0.692
	LTE Band 25	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	Reduced	26340	1880	14.70	16.00	1.349	0.09	0.541	0.730
18	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Reduced	26340	1880	15.69	17.00	1.352	-0.05	0.868	<b>1.174</b>
	LTE Band 25-ENDC	20M	QPSK	1	0	-	Right Tilted	0mm	Ant1	Reduced	26340	1880	12.73	14.00	1.340	-0.15	0.428	0.573
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Reduced	26140	1860	15.52	17.00	1.406	0.1	0.820	1.153

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	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Reduced	26590	1905	15.46	17.00	1.426	-0.03	0.748	1.066
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Reduced	26340	1880	14.75	16.00	1.334	0.13	0.663	0.884
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Reduced	26140	1860	14.44	16.00	1.432	0.1	0.686	0.982
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Reduced	26590	1905	14.59	16.00	1.384	0.08	0.586	0.811
	LTE Band 25	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	Reduced	26340	1880	14.70	16.00	1.349	0.11	0.643	0.867
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Reduced	26340	1880	15.69	17.00	1.352	0.11	0.277	0.375
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	Reduced	26340	1880	14.75	16.00	1.334	0.14	0.217	0.289
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Reduced	26340	1880	15.69	17.00	1.352	0.08	0.345	0.466
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	Reduced	26340	1880	14.75	16.00	1.334	0.03	0.270	0.360
	FR1 n25	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	Full Power	376500	1882.5	23.57	24.00	1.104	0.16	0.040	0.044
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 0	Full Power	376500	1882.5	23.43	24.00	1.140	0.11	0.037	0.042
	FR1 n25	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	Full Power	376500	1882.5	23.57	24.00	1.104	0.05	0.029	0.032
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 0	Full Power	376500	1882.5	23.43	24.00	1.140	0.14	0.027	0.031
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	Full Power	376500	1882.5	23.57	24.00	1.104	0.01	0.044	0.049
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 0	Full Power	376500	1882.5	23.43	24.00	1.140	-0.04	0.034	0.039
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	Full Power	376500	1882.5	23.57	24.00	1.104	-0.1	0.026	0.029
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 0	Full Power	376500	1882.5	23.43	24.00	1.140	-0.14	0.023	0.026
	FR1 n25	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	Reduced	376500	1882.5	17.49	18.00	1.125	-0.04	0.801	0.901
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 1	Reduced	376500	1882.5	17.39	18.00	1.151	-0.16	0.781	0.899
	FR1 n25	40M	QPSK	216	0	DFT-15	Right Cheek	0mm	Ant 1	Reduced	376500	1882.5	17.31	18.00	1.172	0.13	0.572	0.670
19	FR1 n25	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	Reduced	376500	1882.5	17.49	18.00	1.125	-0.08	0.923	1.038
	FR1 n25-NSA	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant1	Reduced	376500	1882.5	14.36	15.00	1.159	0.05	0.517	0.599
	FR1 n25	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	Reduced	376500	1882.5	17.39	18.00	1.151	-0.19	0.868	0.999
	FR1 n25	40M	QPSK	216	0	DFT-15	Right Tilted	0mm	Ant 1	Reduced	376500	1882.5	17.31	18.00	1.172	-0.03	0.684	0.802
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	Reduced	376500	1882.5	17.49	18.00	1.125	0.02	0.319	0.359
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 1	Reduced	376500	1882.5	17.39	18.00	1.151	0.03	0.298	0.343
	FR1 n25	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	Reduced	376500	1882.5	17.49	18.00	1.125	-0.03	0.393	0.442
	FR1 n25	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 1	Reduced	376500	1882.5	17.39	18.00	1.151	0.07	0.374	0.430
<b>2300MHz</b>																		
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	Full Power	27710	2310	23.19	24.00	1.205	-0.19	0.113	0.136
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 6	Full Power	27710	2310	22.15	23.00	1.216	0.19	0.093	0.113
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	Full Power	27710	2310	23.19	24.00	1.205	-0.06	0.083	0.100
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 6	Full Power	27710	2310	22.15	23.00	1.216	-0.1	0.074	0.090
20	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	Full Power	27710	2310	23.19	24.00	1.205	0.09	0.145	0.175
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 6	Full Power	27710	2310	22.15	23.00	1.216	-0.03	0.129	0.157
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	Full Power	27710	2310	23.19	24.00	1.205	-0.17	0.058	0.070
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 6	Full Power	27710	2310	22.15	23.00	1.216	-0.18	0.057	0.069
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 6	Full Power	462000	2310	23.73	24.00	1.064	0.15	0.086	0.092
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 6	Full Power	462000	2310	23.63	24.00	1.089	-0.08	0.112	0.122
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 6	Full Power	462000	2310	23.73	24.00	1.064	0.15	0.084	0.089
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 6	Full Power	462000	2310	23.63	24.00	1.089	0.07	0.068	0.074
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 6	Full Power	462000	2310	23.73	24.00	1.064	-0.09	0.131	0.139
21	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 6	Full Power	462000	2310	23.63	24.00	1.089	-0.02	0.164	0.179
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 6	Full Power	462000	2310	23.73	24.00	1.064	-0.05	0.052	0.055
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 6	Full Power	462000	2310	23.63	24.00	1.089	-0.14	0.044	0.048



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
<b>2600MHz</b>																				
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	Full Power	21100	2535	22.86	24.00	1.300	-	-	0.16	0.123	0.160
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	Full Power	21100	2535	21.78	23.00	1.324	-	-	-0.07	0.099	0.131
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	Full Power	21100	2535	22.86	24.00	1.300	-	-	0.18	0.101	0.131
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	Full Power	21100	2535	21.78	23.00	1.324	-	-	-0.07	0.081	0.107
22	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	Full Power	21100	2535	22.86	24.00	1.300	-	-	-0.04	0.174	<b>0.226</b>
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	Full Power	21100	2535	21.78	23.00	1.324	-	-	-0.15	0.141	0.187
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	Full Power	21100	2535	22.86	24.00	1.300	-	-	0.07	0.056	0.073
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	Full Power	21100	2535	21.78	23.00	1.324	-	-	-0.02	0.045	0.060
23	FR1 n7	50M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 8	Full Power	507000	2535	23.04	24.00	1.247	-	-	0.05	0.109	<b>0.136</b>
	FR1 n7	50M	QPSK	135	68	DFT-15	Right Cheek	0mm	Ant 8	Full Power	507000	2535	22.88	24.00	1.294	-	-	0.09	0.085	0.110
	FR1 n7	50M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 8	Full Power	507000	2535	23.04	24.00	1.247	-	-	-0.08	0.032	0.040
	FR1 n7	50M	QPSK	135	68	DFT-15	Right Tilted	0mm	Ant 8	Full Power	507000	2535	22.88	24.00	1.294	-	-	-0.1	0.015	0.019
	FR1 n7	50M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 8	Full Power	507000	2535	23.04	24.00	1.247	-	-	0.08	0.070	0.087
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Cheek	0mm	Ant 8	Full Power	507000	2535	22.88	24.00	1.294	-	-	-0.04	0.050	0.065
	FR1 n7	50M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 8	Full Power	507000	2535	23.04	24.00	1.247	-	-	-0.09	0.022	0.027
	FR1 n7	50M	QPSK	135	68	DFT-15	Left Tilted	0mm	Ant 8	Full Power	507000	2535	22.88	24.00	1.294	-	-	-0.03	0.008	0.010
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	Reduced	518598	2592.99	190	16.56	18.00	-	-	0.05	0.705	0.982
24	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	Reduced	518598	2592.99	190	16.52	18.00	-	-	0.01	0.818	<b>1.150</b>
	FR1 n41 UL-MIMO	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant5	Reduced	518598	2592.99	160	13.59	15.00	-	-	0.05	0.406	0.562
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 5	Reduced	518598	2592.99	190	16.45	18.00	-	-	-0.15	0.659	0.942
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	Reduced	518598	2592.99	190	16.56	18.00	-	-	0.07	0.140	0.195
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	Reduced	518598	2592.99	190	16.52	18.00	-	-	0.09	0.197	0.277
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	Reduced	518598	2592.99	190	16.56	18.00	-	-	-0.09	0.308	0.429
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	Reduced	518598	2592.99	190	16.52	18.00	-	-	0.11	0.396	0.557
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	Reduced	518598	2592.99	190	16.56	18.00	-	-	-0.12	0.071	0.099
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	Reduced	518598	2592.99	190	16.52	18.00	-	-	0.11	0.100	0.141
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	Full Power	518598	2592.99	26.51	27.00	1.119	-	-	0.06	0.207	0.232
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	Full Power	518598	2592.99	26.27	27.00	1.183	-	-	0.07	0.140	0.166
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	Full Power	518598	2592.99	26.51	27.00	1.119	-	-	-0.07	0.190	0.213
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	Full Power	518598	2592.99	26.27	27.00	1.183	-	-	0.09	0.115	0.136
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	Full Power	518598	2592.99	26.51	27.00	1.119	-	-	-0.05	0.297	0.332
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	Full Power	518598	2592.99	26.27	27.00	1.183	-	-	-0.09	0.223	0.264
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	Full Power	518598	2592.99	26.51	27.00	1.119	-	-	0.04	0.112	0.125
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	Full Power	518598	2592.99	26.27	27.00	1.183	-	-	-0.15	0.064	0.076
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	Reduced	518598	2592.99	21.85	22.80	1.245	-	-	-0.1	0.234	0.291
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	Reduced	518598	2592.99	21.80	22.80	1.259	-	-	-0.14	0.292	0.368
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	Reduced	518598	2592.99	21.85	22.80	1.245	-	-	0.11	0.250	0.311
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	Reduced	518598	2592.99	21.80	22.80	1.259	-	-	0.1	0.332	0.418
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	Reduced	518598	2592.99	21.85	22.80	1.245	-	-	0.07	0.730	0.908
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	Reduced	518598	2592.99	21.80	22.80	1.259	-	-	-0.09	0.898	1.131
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Left Cheek	0mm	Ant 7	Reduced	518598	2592.99	21.38	22.80	1.387	-	-	0.07	0.725	1.005
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	Reduced	518598	2592.99	21.85	22.80	1.245	-	-	0.05	0.571	0.711
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	Reduced	518598	2592.99	21.80	22.80	1.259	-	-	-0.12	0.786	0.990
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Left Tilted	0mm	Ant 7	Reduced	518598	2592.99	21.38	22.80	1.387	-	-	-0.07	0.777	1.078
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	Full Power	518598	2592.99	24.60	25.80	1.318	-	-	0.03	0.317	0.418
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	Full Power	518598	2592.99	24.53	25.80	1.340	-	-	0.08	0.302	0.405
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	Full Power	518598	2592.99	24.60	25.80	1.318	-	-	-0.03	0.165	0.218
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	Full Power	518598	2592.99	24.53	25.80	1.340	-	-	0.18	0.169	0.226
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	Full Power	518598	2592.99	24.60	25.80	1.318	-	-	0.14	0.244	0.322
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	Full Power	518598	2592.99	24.53	25.80	1.340	-	-	-0.15	0.201	0.269
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	Full Power	518598	2592.99	24.60	25.80	1.318	-	-	-0.08	0.230	0.303



**FCC SAR Test Report**

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	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	Omm	Ant 8	Full Power	518598	2592.99	24.53	25.80	1.340	-	-	0.1	0.182	0.244
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	Omm	Ant 6	Full Power	40620	2593	23.19	24.00	1.205	62.9	1.006	-0.07	0.029	0.035
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	Omm	Ant 6	Full Power	40620	2593	21.95	23.00	1.274	62.9	1.006	-0.04	0.027	0.035
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	Omm	Ant 6	Full Power	40620	2593	23.19	24.00	1.205	62.9	1.006	0.17	0.023	0.028
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	Omm	Ant 6	Full Power	40620	2593	21.95	23.00	1.274	62.9	1.006	0.06	0.022	0.028
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	Omm	Ant 6	Full Power	40620	2593	23.19	24.00	1.205	62.9	1.006	-0.01	0.105	0.127
	LTE Band 41C	20M	QPSK	1	99	-	Left Cheek	Omm	Ant 6	Full Power	40620+408182	2593+2612.8	22.45	24.00	1.429	62.9	1.006	0.03	0.025	0.036
25	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Cheek	Omm	Ant 6	Full Power	40620	2593	25.98	27.00	1.265	42.9	1.009	-0.06	0.144	<b>0.184</b>
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	Omm	Ant 6	Full Power	40620	2593	21.95	23.00	1.274	62.9	1.006	0.03	0.042	0.054
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	Omm	Ant 6	Full Power	40620	2593	23.19	24.00	1.205	62.9	1.006	0.13	0.014	0.017
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	Omm	Ant 6	Full Power	40620	2593	21.95	23.00	1.274	62.9	1.006	-0.02	0.014	0.018
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	Omm	Ant 8	Full Power	40620	2593	21.16	22.60	1.393	62.9	1.006	-0.09	0.010	0.014
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	Omm	Ant 8	Full Power	40620	2593	20.66	21.60	1.242	62.9	1.006	-0.1	0.010	0.012
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	Omm	Ant 8	Full Power	40620	2593	21.16	22.60	1.393	62.9	1.006	-0.13	0.010	0.014
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	Omm	Ant 8	Full Power	40620	2593	20.66	21.60	1.242	62.9	1.006	0.11	0.010	0.012
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	Omm	Ant 8	Full Power	40620	2593	21.16	22.60	1.393	62.9	1.006	0.19	0.039	0.055
	LTE Band 41C	20M	QPSK	1	99	-	Left Cheek	Omm	Ant 8	Full Power	40620+408182	2593+2612.8	20.91	22.60	1.476	62.9	1.006	0.09	0.020	0.030
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Cheek	Omm	Ant 8	Full Power	40620	2593	24.70	25.50	1.202	42.9	1.009	-0.05	0.058	0.070
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	Omm	Ant 8	Full Power	40620	2593	20.66	21.60	1.242	62.9	1.006	-0.15	0.010	0.012
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	Omm	Ant 8	Full Power	40620	2593	21.16	22.60	1.393	62.9	1.006	0.06	0.026	0.036
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	Omm	Ant 8	Full Power	40620	2593	20.66	21.60	1.242	62.9	1.006	0.07	0.010	0.012
<b>3500-3900MHz</b>																				
26	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	Omm	Ant 3	Reduced	55830	3609	19.36	20.00	1.159	62.9	1.006	-0.02	0.953	<b>1.111</b>
	LTE Band 48-ENDC	20M	QPSK	1	0	-	Right Cheek	Omm	Ant3	Reduced	55830	3609	16.46	17.00	1.132	62.9	1.006	-0.06	0.472	0.538
	LTE Band 48C	20M	QPSK	1	99	-	Right Cheek	Omm	Ant 3	Reduced	55830+560283	3609+3628.8	19.30	20.00	1.175	62.9	1.006	0.09	0.848	1.002
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	Omm	Ant 3	Reduced	55340	3560	19.16	20.00	1.213	62.9	1.006	0.09	0.615	0.751
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	Omm	Ant 3	Reduced	56150	3641	19.12	20.00	1.225	62.9	1.006	-0.18	0.873	1.076
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	Omm	Ant 3	Reduced	56640	3690	19.17	20.00	1.211	62.9	1.006	-0.02	0.860	1.047
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	Omm	Ant 3	Reduced	55830	3609	18.32	19.00	1.169	62.9	1.006	0.11	0.636	0.748
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	Omm	Ant 3	Reduced	55340	3560	18.16	19.00	1.213	62.9	1.006	-0.15	0.581	0.709
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	Omm	Ant 3	Reduced	56150	3641	18.11	19.00	1.227	62.9	1.006	0.07	0.601	0.742
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	Omm	Ant 3	Reduced	56640	3690	18.25	19.00	1.189	62.9	1.006	0.06	0.610	0.729
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	Omm	Ant 3	Reduced	55830	3609	18.27	19.00	1.183	62.9	1.006	-0.17	0.647	0.770
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	Omm	Ant 3	Reduced	55830	3609	19.36	20.00	1.159	62.9	1.006	0.09	0.336	0.392
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	Omm	Ant 3	Reduced	55830	3609	18.32	19.00	1.169	62.9	1.006	0.07	0.285	0.335
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	Omm	Ant 3	Reduced	55830	3609	19.36	20.00	1.159	62.9	1.006	-0.13	0.163	0.190
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	Omm	Ant 3	Reduced	55830	3609	18.32	19.00	1.169	62.9	1.006	-0.15	0.123	0.145
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	Omm	Ant 3	Reduced	55830	3609	19.36	20.00	1.159	62.9	1.006	-0.1	0.135	0.157
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	Omm	Ant 3	Reduced	55830	3609	18.32	19.00	1.169	62.9	1.006	-0.07	0.111	0.131
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	Omm	Ant 4	Full Power	55830	3609	22.47	23.20	1.183	62.9	1.006	-0.07	0.501	0.596
	LTE Band 48C	20M	QPSK	1	99	-	Right Cheek	Omm	Ant 4	Full Power	55830+560283	3609+3628.8	21.87	23.20	1.358	62.9	1.006	0.19	0.421	0.575
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	Omm	Ant 4	Full Power	55830	3609	21.43	22.20	1.194	62.9	1.006	0.14	0.344	0.413
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	Omm	Ant 4	Full Power	55830	3609	22.47	23.20	1.183	62.9	1.006	-0.16	0.421	0.501
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	Omm	Ant 4	Full Power	55830	3609	21.43	22.20	1.194	62.9	1.006	0.01	0.335	0.402
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	Omm	Ant 4	Full Power	55830	3609	22.47	23.20	1.183	62.9	1.006	0.06	0.214	0.255
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	Omm	Ant 4	Full Power	55830	3609	21.43	22.20	1.194	62.9	1.006	0.16	0.164	0.197
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	Omm	Ant 4	Full Power	55830	3609	22.47	23.20	1.183	62.9	1.006	-0.15	0.238	0.283
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	Omm	Ant 4	Full Power	55830	3609	21.43	22.20	1.194	62.9	1.006	-0.17	0.194	0.233
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	Omm	Ant 5	Full Power	55830	3609	21.24	21.90	1.164	62.9	1.006	-0.05	0.091	0.107
	LTE Band 48C	20M	QPSK	1	99	-	Right Cheek	Omm	Ant 5	Full Power	55830+560283	3609+3628.8	20.25	21.90	1.462	62.9	1.006	0.03	0.071	0.104
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	Omm	Ant 5	Full Power	55830	3609	20.25	20.90	1.161	62.9	1.006	0.06	0.079	0.092
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	Omm	Ant 5	Full Power	55830	3609	21.24	21.90	1.164	62.9	1.006	-0.01	0.064	0.075
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	Omm	Ant 5	Full Power	55830	3609	20.25	20.90	1.161	62.9	1.006	0.02	0.059	0.069
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	Omm	Ant 5	Full Power	55830	3609	21.24	21.90	1.164	62.9	1.006	0.09	0.062	0.073
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	Omm	Ant 5	Full Power	55830	3609	20.25	20.90	1.161	62.9	1.006	-0.09	0.057	0.067
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	Omm	Ant 5	Full Power	55830	3609	21.24	21.90	1.164	62.9	1.006	-0.18	0.051	0.060



**FCC SAR Test Report**

**Report No. : FA240834**

	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	Full Power	55830	3609	20.25	20.90	1.161	62.9	1.006	0.17	0.040	0.047
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	Full Power	55830	3609	20.88	22.30	1.387	62.9	1.006	0.15	0.010	0.014
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	Full Power	55830	3609	19.94	21.30	1.368	62.9	1.006	0.03	0.041	0.056
	LTE Band 48C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 8	Full Power	55830+560283609+3628.8		20.42	22.30	1.542	62.9	1.006	0.17	0.025	0.039
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	Full Power	55830	3609	20.88	22.30	1.387	62.9	1.006	0.1	0.010	0.014
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	Full Power	55830	3609	19.94	21.30	1.368	62.9	1.006	0.11	0.027	0.037
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	Full Power	55830	3609	20.88	22.30	1.387	62.9	1.006	0.09	0.036	0.050
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	Full Power	55830	3609	19.94	21.30	1.368	62.9	1.006	0.03	0.019	0.026
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	Full Power	55830	3609	20.88	22.30	1.387	62.9	1.006	0.03	0.026	0.036
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 8	Full Power	55830	3609	19.94	21.30	1.368	62.9	1.006	-0.15	0.010	0.014
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	Reduced	641666	3624.99	18.78	20.00	1.324	-	-	0.03	0.637	0.844
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	Reduced	638000	3570	18.68	20.00	1.355	-	-	-0.18	0.601	0.814
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	Reduced	645332	3679.98	18.66	20.00	1.361	-	-	-0.15	0.652	0.888
27	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 3	Reduced	641666	3624.99	18.73	20.00	1.340	-	-	-0.06	0.892	1.195
	FR1 n48-NSA	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant3	Reduced	641666	3624.99	15.49	17.00	1.416	-	-	-0.03	0.431	0.610
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 3	Reduced	638000	3570	18.55	20.00	1.396	-	-	-0.16	0.854	1.192
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 3	Reduced	645332	3679.98	18.49	20.00	1.416	-	-	0.07	0.840	1.189
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Cheek	0mm	Ant 3	Reduced	641666	3624.99	18.65	20.00	1.365	-	-	0.17	0.768	1.048
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	Reduced	641666	3624.99	18.78	20.00	1.324	-	-	0.13	0.254	0.336
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 3	Reduced	641666	3624.99	18.73	20.00	1.340	-	-	0.19	0.330	0.442
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	Reduced	641666	3624.99	18.78	20.00	1.324	-	-	-0.04	0.082	0.109
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 3	Reduced	641666	3624.99	18.73	20.00	1.340	-	-	0.01	0.136	0.182
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	Reduced	641666	3624.99	18.78	20.00	1.324	-	-	-0.17	0.062	0.082
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 3	Reduced	641666	3624.99	18.73	20.00	1.340	-	-	0.03	0.128	0.171
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	Full Power	641666	3624.99	22.00	23.70	1.479	-	-	0.07	0.516	0.763
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 4	Full Power	641666	3624.99	21.99	23.70	1.483	-	-	-0.04	0.674	0.999
	FR1 n48-NSA	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant4	Reduced	641666	3624.99	19.87	21.20	1.358	-	-	-0.09	0.418	0.568
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 4	Full Power	638000	3570	21.95	23.70	1.496	-	-	-0.17	0.645	0.965
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 4	Full Power	645332	3679.98	21.94	23.70	1.500	-	-	-0.07	0.624	0.936
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Cheek	0mm	Ant 4	Full Power	641666	3624.99	20.82	22.70	1.542	-	-	0.01	0.581	0.896
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	Full Power	641666	3624.99	22.00	23.70	1.479	-	-	-0.03	0.482	0.713
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 4	Full Power	641666	3624.99	21.99	23.70	1.483	-	-	-0.03	0.584	0.866
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 4	Full Power	638000	3570	21.95	23.70	1.496	-	-	-0.01	0.601	0.899
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 4	Full Power	645332	3679.98	21.94	23.70	1.500	-	-	0.17	0.560	0.840
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Tilted	0mm	Ant 4	Full Power	641666	3624.99	20.82	22.70	1.542	-	-	-0.08	0.527	0.812
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	Full Power	641666	3624.99	22.00	23.70	1.479	-	-	0.03	0.252	0.373
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 4	Full Power	641666	3624.99	21.99	23.70	1.483	-	-	-0.16	0.357	0.529
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	Full Power	641666	3624.99	22.00	23.70	1.479	-	-	-0.1	0.286	0.423
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 4	Full Power	641666	3624.99	21.99	23.70	1.483	-	-	0.16	0.388	0.575
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	Full Power	641666	3624.99	22.71	24.00	1.346	-	-	0.03	0.033	0.044
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 5	Full Power	641666	3624.99	22.60	24.00	1.380	-	-	0.17	0.031	0.043
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	Full Power	641666	3624.99	22.71	24.00	1.346	-	-	0.12	0.029	0.039
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 5	Full Power	641666	3624.99	22.60	24.00	1.380	-	-	-0.08	0.025	0.035
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	Full Power	641666	3624.99	22.71	24.00	1.346	-	-	-0.15	0.032	0.043
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 5	Full Power	641666	3624.99	22.60	24.00	1.380	-	-	0.17	0.028	0.039
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	Full Power	641666	3624.99	22.71	24.00	1.346	-	-	-0.09	0.024	0.032
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 5	Full Power	641666	3624.99	22.60	24.00	1.380	-	-	0.06	0.019	0.026
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	Full Power	641666	3624.99	20.95	22.60	1.462	-	-	0.01	0.026	0.038
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 8	Full Power	641666	3624.99	20.85	22.60	1.496	-	-	-0.11	0.019	0.028
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	Full Power	641666	3624.99	20.95	22.60	1.462	-	-	-0.05	0.013	0.019
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 8	Full Power	641666	3624.99	20.85	22.60	1.496	-	-	-0.14	0.010	0.015
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	Full Power	641666	3624.99	20.95	22.60	1.462	-	-	0.1	0.025	0.037
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 8	Full Power	641666	3624.99	20.85	22.60	1.496	-	-	-0.16	0.020	0.030
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	Full Power	641666	3624.99	20.95	22.60	1.462	-	-	0.15	0.013	0.019
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 8	Full Power	641666	3624.99	20.85	22.60	1.496	-	-	0.07	0.010	0.015
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	Reduced	656000	3840	17.48	19.00	1.419	-	-	-0.01	0.839	1.191





**FCC SAR Test Report**

**Report No. : FA240834**

	FR1 n77Par270 HPUE-NSA	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant3	Reduced	656000	3840	14.60	16.00	1.380	-	-	-0.06	0.435	0.600
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	Reduced	656000	3840	17.42	19.00	1.439	-	-	-0.09	0.789	1.135
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 3	Reduced	656000	3840	17.38	19.00	1.452	-	-	-0.16	0.763	1.108
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	Reduced	656000	3840	17.48	19.00	1.419	-	-	0.12	0.304	0.431
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	Reduced	656000	3840	17.42	19.00	1.439	-	-	0.17	0.372	0.535
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	Reduced	656000	3840	17.48	19.00	1.419	-	-	0.02	0.118	0.167
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	Reduced	656000	3840	17.42	19.00	1.439	-	-	0.15	0.121	0.174
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	Reduced	656000	3840	17.48	19.00	1.419	-	-	-0.09	0.089	0.126
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	Reduced	656000	3840	17.42	19.00	1.439	-	-	-0.18	0.103	0.148
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 3	Reduced	633334	3500.01	18.09	19.00	1.233	-	-	0.1	0.393	0.485
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 3	Reduced	633334	3500.01	17.98	19.00	1.265	-	-	0.01	0.457	0.578
	FR1 n77Part27Q HPUE -NSA	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant3	Reduced	633334	3500.01	14.39	16.00	1.449	-	-	-0.03	0.234	0.339
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 3	Reduced	633334	3500.01	18.09	19.00	1.233	-	-	-0.06	0.153	0.189
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 3	Reduced	633334	3500.01	17.98	19.00	1.265	-	-	-0.04	0.189	0.239
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 3	Reduced	633334	3500.01	18.09	19.00	1.233	-	-	-0.06	0.082	0.101
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 3	Reduced	633334	3500.01	17.98	19.00	1.265	-	-	0.17	0.093	0.118
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 3	Reduced	633334	3500.01	18.09	19.00	1.233	-	-	0.09	0.063	0.078
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 3	Reduced	633334	3500.01	17.98	19.00	1.265	-	-	0.12	0.074	0.094
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	Reduced	656000	3840	22.99	24.00	1.262	-	-	-0.19	0.644	0.813
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	Reduced	656000	3840	22.72	24.00	1.343	-	-	0.18	0.798	1.072
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 4	Reduced	656000	3840	22.59	24.00	1.384	-	-	-0.11	0.734	1.016
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	Reduced	656000	3840	22.99	24.00	1.262	-	-	-0.11	0.708	0.893
28	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	Reduced	656000	3840	22.72	24.00	1.343	-	-	0.09	0.890	1.195
	FR1 n77Par270 HPUE-NSA	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant4	Reduced	656000	3840	18.59	20.00	1.384	-	-	-0.01	0.428	0.592
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 4	Reduced	656000	3840	22.59	24.00	1.384	-	-	0.1	0.811	1.122
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	Reduced	656000	3840	22.99	24.00	1.262	-	-	0.06	0.285	0.360
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	Reduced	656000	3840	22.72	24.00	1.343	-	-	-0.18	0.443	0.595
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	Reduced	656000	3840	22.99	24.00	1.262	-	-	-0.08	0.320	0.404
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	Reduced	656000	3840	22.72	24.00	1.343	-	-	-0.09	0.504	0.677
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	Reduced	633334	3500.01	22.43	24.00	1.435	-	-	0.04	0.375	0.538
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	Reduced	633334	3500.01	22.33	24.00	1.469	-	-	-0.06	0.521	0.765
	FR1 n77Part27Q HPUE-NSA	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant4	Reduced	633334	3500.01	18.89	20.00	1.291	-	-	-0.09	0.263	0.340
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	Reduced	633334	3500.01	22.43	24.00	1.435	-	-	0.17	0.438	0.629
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	Reduced	633334	3500.01	22.33	24.00	1.469	-	-	-0.18	0.471	0.692
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	Reduced	633334	3500.01	22.43	24.00	1.435	-	-	-0.11	0.184	0.264
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	Reduced	633334	3500.01	22.33	24.00	1.469	-	-	-0.07	0.245	0.360
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	Reduced	633334	3500.01	22.43	24.00	1.435	-	-	0.1	0.222	0.319
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	Reduced	633334	3500.01	22.33	24.00	1.469	-	-	-0.15	0.264	0.388
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	Full Power	656000	3840	25.52	27.00	1.406	-	-	-0.01	0.197	0.277
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	Full Power	656000	3840	25.55	27.00	1.396	-	-	0.01	0.152	0.212
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	Full Power	656000	3840	25.52	27.00	1.406	-	-	0.01	0.121	0.170
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	Full Power	656000	3840	25.55	27.00	1.396	-	-	0.09	0.109	0.152
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	Full Power	656000	3840	25.52	27.00	1.406	-	-	-0.11	0.092	0.129
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	Full Power	656000	3840	25.55	27.00	1.396	-	-	-0.14	0.078	0.109
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	Full Power	656000	3840	25.52	27.00	1.406	-	-	0.19	0.043	0.060
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	Full Power	656000	3840	25.55	27.00	1.396	-	-	-0.03	0.039	0.054
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	Full Power	633334	3500.01	25.50	27.00	1.413	-	-	-0.15	0.086	0.121
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	Full Power	633334	3500.01	25.33	27.00	1.469	-	-	0.05	0.077	0.113
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	Full Power	633334	3500.01	25.50	27.00	1.413	-	-	-0.08	0.072	0.102
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	Full Power	633334	3500.01	25.33	27.00	1.469	-	-	0.11	0.055	0.081
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	Full Power	633334	3500.01	25.50	27.00	1.413	-	-	-0.14	0.035	0.049
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	Full Power	633334	3500.01	25.33	27.00	1.469	-	-	0.14	0.029	0.043
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	Full Power	633334	3500.01	25.50	27.00	1.413	-	-	-0.03	0.011	0.016
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	Full Power	633334	3500.01	25.33	27.00	1.469	-	-	0.07	0.009	0.013
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	Full Power	656000	3840	22.50	24.10	1.445	-	-	0.16	0.039	0.056
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	Full Power	656000	3840	22.46	24.10	1.459	-	-	-0.07	0.022	0.032



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FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	Full Power	656000	3840	22.50	24.10	1.445	-	-	0.18	0.033	0.048
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	Full Power	656000	3840	22.46	24.10	1.459	-	-	-0.06	0.020	0.029
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	Full Power	656000	3840	22.50	24.10	1.445	-	-	-0.08	0.029	0.042
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	Full Power	656000	3840	22.46	24.10	1.459	-	-	-0.08	0.025	0.036
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	Full Power	656000	3840	22.50	24.10	1.445	-	-	0.01	0.028	0.040
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	Full Power	656000	3840	22.46	24.10	1.459	-	-	-0.05	0.023	0.034
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	Full Power	633334	3500.01	22.43	24.10	1.469	-	-	-0.15	0.046	0.068
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	Full Power	633334	3500.01	22.31	24.10	1.510	-	-	-0.17	0.021	0.032
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	Full Power	633334	3500.01	22.43	24.10	1.469	-	-	0.17	0.033	0.048
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	Full Power	633334	3500.01	22.31	24.10	1.510	-	-	0.15	0.019	0.029
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	Full Power	633334	3500.01	22.43	24.10	1.469	-	-	-0.14	0.037	0.054
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	Full Power	633334	3500.01	22.31	24.10	1.510	-	-	-0.01	0.029	0.044
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	Full Power	633334	3500.01	22.43	24.10	1.469	-	-	-0.17	0.026	0.038
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	Full Power	633334	3500.01	22.31	24.10	1.510	-	-	-0.18	0.020	0.030

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
<b>WLAN/Bluetooth</b>																
	WLAN 2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 2+9	Receiver on	6	2437	20.87	22.50	1.455	99.52	1.005	0.03	0.443	0.648
	WLAN 2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 2+9	Receiver on	6	2437	20.87	22.50	1.455	99.52	1.005	-0.07	0.412	0.603
29	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2+9	Receiver on	6	2437	20.87	22.50	1.455	99.52	1.005	-0.02	0.891	<b>1.303</b>
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2+9	Simultaneous	6	2437	15.36	17.00	1.459	99.52	1.005	0.04	0.208	0.305
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2+9	Receiver on	11	2462	20.81	22.50	1.476	99.52	1.005	-0.02	0.822	1.219
	WLAN 2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2+9	Receiver on	1	2412	20.72	22.50	1.507	99.52	1.005	-0.02	0.811	1.228
	WLAN 2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 2+9	Receiver on	6	2437	20.76	22.50	1.493	96.53	1.036	-0.02	0.729	1.127
	WLAN 2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 2+9	Receiver on	1	2412	20.66	22.50	1.528	96.53	1.036	0.06	0.711	1.125
	WLAN 2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 2+9	Receiver on	11	2462	19.38	21.00	1.452	96.53	1.036	0.05	0.485	0.730
	WLAN 2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 2+9	Receiver on	6	2437	20.87	22.50	1.455	99.52	1.005	-0.18	0.557	0.815
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 2	Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	-0.03	0.048	0.068
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 2	Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	0.02	0.038	0.054
30	Bluetooth	1Mbps	Left Cheek	0mm	Ant 2	Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	0.08	0.057	<b>0.081</b>
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 2	Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	-0.02	0.042	0.060
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 2+9	Receiver on	54	5270	17.67	19.50	1.524	94.12	1.062	-0.04	0.130	0.210
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 2+9	Receiver on	54	5270	17.67	19.50	1.524	94.12	1.062	0.02	0.139	0.225
31	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 2+9	Receiver on	54	5270	17.67	19.50	1.524	94.12	1.062	-0.05	0.685	<b>1.109</b>
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 2+9	Simultaneous	58	5290	12.14	13.50	1.368	89.19	1.121	0.06	0.243	0.373
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 2+9	Receiver on	62	5310	16.62	18.00	1.374	94.12	1.062	-0.05	0.577	0.842
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 2+9	Receiver on	54	5270	17.67	19.50	1.524	94.12	1.062	0.09	0.204	0.330
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	0.06	0.301	0.464
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	0.07	0.395	0.609
32	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	0.13	0.711	<b>1.096</b>
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 2+9	Simultaneous	106	5530	13.48	15.00	1.419	89.19	1.121	0.02	0.202	0.321
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 2+9	Full Power	134	5670	18.18	19.50	1.355	94.12	1.062	0.13	0.495	0.712
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	0.1	0.428	0.659
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 2+9	Receiver on	155	5775	19.52	21.50	1.578	89.19	1.121	-0.09	0.194	0.343
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 2+9	Receiver on	155	5775	19.52	21.50	1.578	89.19	1.121	0.04	0.259	0.458
33	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 2+9	Receiver on	155	5775	19.52	21.50	1.578	89.19	1.121	0.03	0.602	<b>1.065</b>
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 2+9	Simultaneous	155	5775	14.96	16.50	1.426	89.19	1.121	0.12	0.203	0.324
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 2+9	Receiver on	155	5775	19.52	21.50	1.578	89.19	1.121	0.03	0.269	0.476





15.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)	
<b>750MHz</b>																			
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	Full Power	23095	707.5	22.90	24.00	1.288	0.02	0.507	0.653	
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	Full Power	23095	707.5	21.96	23.00	1.271	-0.1	0.390	0.496	
34	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	Full Power	23095	707.5	22.90	24.00	1.288	-0.03	0.658	<b>0.848</b>	
	LTE Band 12-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant0	Reduced	23095	707.5	21.44	22.50	1.276	0.05	0.447	0.571	
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	Full Power	23095	707.5	21.96	23.00	1.271	-0.18	0.548	0.696	
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	Full Power	23095	707.5	21.89	23.00	1.291	-0.07	0.538	0.695	
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	Full Power	23095	707.5	22.90	24.00	1.288	-0.09	0.251	0.323	
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	Full Power	23095	707.5	21.96	23.00	1.271	0.02	0.202	0.257	
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	Full Power	23095	707.5	22.90	24.00	1.288	-0.11	0.409	0.527	
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	Full Power	23095	707.5	21.96	23.00	1.271	0.07	0.303	0.385	
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Full Power	23095	707.5	22.90	24.00	1.288	-0.03	0.619	0.797	
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	Full Power	23095	707.5	21.96	23.00	1.271	-0.05	0.526	0.668	
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	Full Power	23095	707.5	23.36	24.00	1.159	0.15	0.464	0.538	
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	Full Power	23095	707.5	22.36	23.00	1.159	0.11	0.355	0.411	
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	Full Power	23095	707.5	23.36	24.00	1.159	-0.03	0.620	0.718	
	LTE Band 12-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant1	Reduced	23095	707.5	21.97	22.50	1.130	-0.01	0.399	0.451	
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	Full Power	23095	707.5	22.36	23.00	1.159	0.07	0.461	0.534	
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	Full Power	23095	707.5	23.36	24.00	1.159	-0.05	0.365	0.423	
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	Full Power	23095	707.5	22.36	23.00	1.159	-0.03	0.290	0.336	
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	Full Power	23095	707.5	23.36	24.00	1.159	-0.16	0.276	0.320	
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	Full Power	23095	707.5	22.36	23.00	1.159	0.04	0.215	0.249	
	LTE Band 12	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	Full Power	23095	707.5	23.36	24.00	1.159	0.09	0.581	0.673	
	LTE Band 12	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	Full Power	23095	707.5	22.36	23.00	1.159	-0.1	0.490	0.568	
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	Full Power	141500	707.5	22.87	24.00	1.297	0.08	0.112	0.145	
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	Full Power	141500	707.5	22.62	24.00	1.374	0.07	0.170	0.234	
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Full Power	141500	707.5	22.87	24.00	1.297	0.02	0.335	0.435	
35	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	Full Power	141500	707.5	22.62	24.00	1.374	-0.07	0.396	<b>0.544</b>	
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	Full Power	141500	707.5	22.87	24.00	1.297	-0.03	0.078	0.101	
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	5mm	Ant 0	Full Power	141500	707.5	22.62	24.00	1.374	0.1	0.023	0.032	
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 0	Full Power	141500	707.5	22.87	24.00	1.297	-0.13	0.113	0.147	
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Side	5mm	Ant 0	Full Power	141500	707.5	22.62	24.00	1.374	-0.08	0.042	0.058	
	FR1 n12	15M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	Full Power	141500	707.5	22.87	24.00	1.297	0.11	0.133	0.173	
	FR1 n12	15M	QPSK	36	22	DFT-15	Bottom Side	5mm	Ant 0	Full Power	141500	707.5	22.62	24.00	1.374	-0.09	0.222	0.305	
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	Full Power	141500	707.5	22.95	24.00	1.274	0.1	0.167	0.213	
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	Full Power	141500	707.5	22.92	24.00	1.282	-0.01	0.296	0.380	
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	Full Power	141500	707.5	22.95	24.00	1.274	0.1	0.264	0.336	
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	Full Power	141500	707.5	22.92	24.00	1.282	-0.03	0.405	0.519	
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	Full Power	141500	707.5	22.95	24.00	1.274	0.05	0.104	0.132	
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Side	5mm	Ant 1	Full Power	141500	707.5	22.92	24.00	1.282	0.08	0.164	0.210	
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	Full Power	141500	707.5	22.95	24.00	1.274	-0.16	0.056	0.071	
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Side	5mm	Ant 1	Full Power	141500	707.5	22.92	24.00	1.282	-0.18	0.086	0.110	
	FR1 n12	15M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	Full Power	141500	707.5	22.95	24.00	1.274	-0.02	0.214	0.273	
	FR1 n12	15M	QPSK	36	22	DFT-15	Top Side	5mm	Ant 1	Full Power	141500	707.5	22.92	24.00	1.282	-0.06	0.383	0.491	
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	Full Power	23230	782	22.53	24.00	1.403	-0.01	0.387	0.543	
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	Full Power	23230	782	21.55	23.00	1.396	-0.16	0.412	0.575	
36	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	Full Power	23230	782	22.53	24.00	1.403	-0.03	0.609	<b>0.854</b>	
	LTE Band 13-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant0	Reduced	23230	782	20.99	22.50	1.416	-0.09	0.397	0.562	
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	Full Power	23230	782	21.55	23.00	1.396	0.11	0.546	0.762	
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	Full Power	23230	782	21.42	23.00	1.439	-0.03	0.561	0.807	
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	Full Power	23230	782	22.53	24.00	1.403	-0.16	0.188	0.264	
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	Full Power	23230	782	21.55	23.00	1.396	-0.03	0.152	0.212	



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	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	Full Power	23230	782	22.53	24.00	1.403	0.03	0.348	0.488
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	Full Power	23230	782	21.55	23.00	1.396	0.03	0.268	0.374
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Full Power	23230	782	22.53	24.00	1.403	0.1	0.598	0.839
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	Full Power	23230	782	21.55	23.00	1.396	0.18	0.382	0.533
	LTE Band 13	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	Full Power	23230	782	21.42	23.00	1.439	-0.03	0.582	0.837
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	Full Power	23230	782	23.04	24.00	1.247	0.14	0.434	0.541
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	Full Power	23230	782	21.88	23.00	1.294	-0.13	0.334	0.432
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	Full Power	23230	782	23.04	24.00	1.247	-0.01	0.608	0.758
	LTE Band 13-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant1	Reduced	23230	782	21.66	22.50	1.213	0.13	0.418	0.507
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	Full Power	23230	782	21.88	23.00	1.294	-0.07	0.398	0.515
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	Full Power	23230	782	23.04	24.00	1.247	0.12	0.225	0.281
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	Full Power	23230	782	21.88	23.00	1.294	0.16	0.179	0.232
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	Full Power	23230	782	23.04	24.00	1.247	-0.03	0.188	0.235
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	Full Power	23230	782	21.88	23.00	1.294	0.04	0.144	0.186
	LTE Band 13	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	Full Power	23230	782	23.04	24.00	1.247	0.05	0.405	0.505
	LTE Band 13	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	Full Power	23230	782	21.88	23.00	1.294	0.09	0.321	0.415
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	Full Power	23330	793	22.77	24.00	1.327	-0.06	0.598	0.794
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	Full Power	23330	793	21.70	23.00	1.349	0.01	0.466	0.629
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	Full Power	23330	793	22.77	24.00	1.327	-0.03	0.661	0.877
	LTE Band 14-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant0	Reduced	23330	793	21.24	22.50	1.337	0.08	0.396	0.529
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	Full Power	23330	793	21.70	23.00	1.349	-0.04	0.593	0.800
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	Full Power	23330	793	21.69	23.00	1.352	-0.07	0.648	0.876
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	Full Power	23330	793	22.77	24.00	1.327	-0.03	0.253	0.336
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	Full Power	23330	793	21.70	23.00	1.349	0.05	0.206	0.278
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	Full Power	23330	793	22.77	24.00	1.327	-0.11	0.431	0.572
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	Full Power	23330	793	21.70	23.00	1.349	0.15	0.348	0.469
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Full Power	23330	793	22.77	24.00	1.327	0.02	0.637	0.846
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	Full Power	23330	793	21.70	23.00	1.349	0.17	0.531	0.716
	LTE Band 14	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	Full Power	23330	793	21.69	23.00	1.352	-0.03	0.581	0.786
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 1	Full Power	23330	793	22.85	24.00	1.303	0.02	0.546	0.712
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 1	Full Power	23330	793	21.79	23.00	1.321	-0.04	0.428	0.566
37	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	Full Power	23330	793	22.85	24.00	1.303	-0.09	0.709	0.924
	LTE Band 14-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant1	Reduced	23330	793	21.43	22.50	1.279	0.1	0.449	0.574
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 1	Full Power	23330	793	21.79	23.00	1.321	-0.17	0.487	0.643
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 1	Full Power	23330	793	21.76	23.00	1.330	-0.05	0.669	0.890
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	Full Power	23330	793	22.85	24.00	1.303	-0.05	0.190	0.248
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	Full Power	23330	793	21.79	23.00	1.321	0.03	0.153	0.202
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	Full Power	23330	793	22.85	24.00	1.303	0.1	0.181	0.236
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	Full Power	23330	793	21.79	23.00	1.321	-0.13	0.144	0.190
	LTE Band 14	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	Full Power	23330	793	22.85	24.00	1.303	0.02	0.604	0.787
	LTE Band 14	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	Full Power	23330	793	21.79	23.00	1.321	-0.09	0.528	0.698
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	Full Power	158600	793	22.95	24.00	1.274	-0.15	0.399	0.508
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 0	Full Power	158600	793	22.79	24.00	1.321	-0.15	0.331	0.437
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Full Power	158600	793	22.95	24.00	1.274	-0.13	0.530	0.675
38	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 0	Full Power	158600	793	22.79	24.00	1.321	-0.06	0.538	0.711
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	Full Power	158600	793	22.95	24.00	1.274	0.08	0.025	0.032
	FR1 n14	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 0	Full Power	158600	793	22.79	24.00	1.321	-0.02	0.012	0.016
	FR1 n14	10M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 0	Full Power	158600	793	22.95	24.00	1.274	0.12	0.087	0.111
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Side	5mm	Ant 0	Full Power	158600	793	22.79	24.00	1.321	-0.09	0.070	0.092
	FR1 n14	10M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	Full Power	158600	793	22.95	24.00	1.274	-0.16	0.440	0.560
	FR1 n14	10M	QPSK	25	14	DFT-15	Bottom Side	5mm	Ant 0	Full Power	158600	793	22.79	24.00	1.321	-0.09	0.523	0.691
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	Full Power	158600	793	23.64	24.00	1.086	-0.05	0.356	0.387
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	Full Power	158600	793	23.51	24.00	1.119	-0.05	0.315	0.353
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	Full Power	158600	793	23.64	24.00	1.086	-0.06	0.414	0.450
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	Full Power	158600	793	23.51	24.00	1.119	0.19	0.359	0.402
	FR1 n14	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	Full Power	158600	793	23.64	24.00	1.086	0.14	0.156	0.169



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	FR1 n14	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 1	Full Power	158600	793	23.51	24.00	1.119	-0.18	0.145	0.162	
	FR1 n14	10M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	Full Power	158600	793	23.64	24.00	1.086	-0.05	0.168	0.183	
	FR1 n14	10M	QPSK	25	14	DFT-15	Right Side	5mm	Ant 1	Full Power	158600	793	23.51	24.00	1.119	0.07	0.119	0.133	
	FR1 n14	10M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	Full Power	158600	793	23.64	24.00	1.086	-0.01	0.382	0.415	
	FR1 n14	10M	QPSK	25	14	DFT-15	Top Side	5mm	Ant 1	Full Power	158600	793	23.51	24.00	1.119	0.19	0.401	0.449	
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	Full Power	133322	683	22.36	24.00	1.459	0.08	0.220	0.321	
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	Full Power	133322	683	21.41	23.00	1.442	0.18	0.232	0.335	
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	Full Power	133322	683	22.36	24.00	1.459	-0.03	0.317	0.462	
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	Full Power	133322	683	21.41	23.00	1.442	-0.1	0.260	0.375	
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	Full Power	133322	683	22.36	24.00	1.459	0.15	0.136	0.198	
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	Full Power	133322	683	21.41	23.00	1.442	-0.18	0.107	0.154	
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	Full Power	133322	683	22.36	24.00	1.459	0.09	0.191	0.279	
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	Full Power	133322	683	21.41	23.00	1.442	0.11	0.143	0.206	
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Full Power	133322	683	22.36	24.00	1.459	0.09	0.316	0.461	
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	Full Power	133322	683	21.41	23.00	1.442	0.16	0.261	0.376	
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	Full Power	133322	683	22.63	24.00	1.371	-0.19	0.339	0.465	
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	Full Power	133322	683	21.65	23.00	1.365	0.04	0.262	0.358	
39	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	Full Power	133322	683	22.63	24.00	1.371	-0.09	0.437	0.599	
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	Full Power	133322	683	21.65	23.00	1.365	0.11	0.366	0.499	
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	Full Power	133322	683	22.63	24.00	1.371	-0.16	0.321	0.440	
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	Full Power	133322	683	21.65	23.00	1.365	0.04	0.261	0.356	
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	Full Power	133322	683	22.63	24.00	1.371	-0.03	0.182	0.250	
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	Full Power	133322	683	21.65	23.00	1.365	-0.05	0.145	0.198	
	LTE Band 71	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Full Power	133322	683	22.63	24.00	1.371	0.15	0.423	0.580	
	LTE Band 71	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Full Power	133322	683	21.65	23.00	1.365	-0.04	0.368	0.502	
	FR1 n71	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	Full Power	136100	680.5	23.01	24.00	1.256	0.04	0.170	0.214	
	FR1 n71	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	Full Power	136100	680.5	22.93	24.00	1.279	-0.04	0.219	0.280	
	FR1 n71	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Full Power	136100	680.5	23.01	24.00	1.256	0.06	0.289	0.363	
	FR1 n71	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	Full Power	136100	680.5	22.93	24.00	1.279	0.05	0.335	0.429	
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	Full Power	136100	680.5	23.01	24.00	1.256	0.17	0.043	0.054	
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Side	5mm	Ant 0	Full Power	136100	680.5	22.93	24.00	1.279	0.13	0.042	0.054	
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 0	Full Power	136100	680.5	23.01	24.00	1.256	-0.17	0.074	0.093	
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Side	5mm	Ant 0	Full Power	136100	680.5	22.93	24.00	1.279	0.16	0.086	0.110	
	FR1 n71	20M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	Full Power	136100	680.5	23.01	24.00	1.256	-0.15	0.300	0.377	
	FR1 n71	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 0	Full Power	136100	680.5	22.93	24.00	1.279	0.06	0.277	0.354	
	FR1 n71	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	Full Power	136100	680.5	23.11	24.00	1.227	-0.11	0.270	0.331	
	FR1 n71	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	Full Power	136100	680.5	23.03	24.00	1.250	0.12	0.265	0.331	
	FR1 n71	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	Full Power	136100	680.5	23.11	24.00	1.227	0.07	0.429	0.527	
40	FR1 n71	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	Full Power	136100	680.5	23.03	24.00	1.250	-0.08	0.429	0.536	
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	Full Power	136100	680.5	23.11	24.00	1.227	0.17	0.153	0.188	
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Side	5mm	Ant 1	Full Power	136100	680.5	23.03	24.00	1.250	-0.16	0.151	0.189	
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	Full Power	136100	680.5	23.11	24.00	1.227	0.03	0.087	0.107	
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Side	5mm	Ant 1	Full Power	136100	680.5	23.03	24.00	1.250	0.01	0.076	0.095	
	FR1 n71	20M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	Full Power	136100	680.5	23.11	24.00	1.227	0.17	0.319	0.392	
	FR1 n71	20M	QPSK	50	28	DFT-15	Top Side	5mm	Ant 1	Full Power	136100	680.5	23.03	24.00	1.250	0.15	0.296	0.370	
	<b>835MHz</b>																		
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	Reduced	189	836.4	27.55	28.50	1.245	0.17	0.706	0.879	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	Reduced	128	824.2	27.53	28.50	1.250	0.18	0.656	0.820	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	Reduced	251	848.8	27.46	28.50	1.271	-0.03	0.825	1.048	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Reduced	189	836.4	27.55	28.50	1.245	0.15	0.990	1.232	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Reduced	128	824.2	27.53	28.50	1.250	-0.13	0.885	1.106	
41	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Reduced	251	848.8	27.46	28.50	1.271	-0.07	1.050	1.334	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	Reduced	189	836.4	27.55	28.50	1.245	-0.08	0.179	0.223	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	Reduced	189	836.4	27.55	28.50	1.245	0.16	0.276	0.343	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	Reduced	189	836.4	27.55	28.50	1.245	0.1	0.750	0.933	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	Reduced	128	824.2	27.53	28.50	1.250	-0.18	0.646	0.808	



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	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	Reduced	251	848.8	27.46	28.50	1.271	0.1	0.788	1.001
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	Full Power	4182	836.4	23.41	24.00	1.146	0.18	0.502	0.575
42	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Full Power	4182	836.4	23.41	24.00	1.146	-0.05	0.672	<b>0.770</b>
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	Full Power	4182	836.4	23.41	24.00	1.146	-0.17	0.106	0.121
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	Full Power	4182	836.4	23.41	24.00	1.146	-0.13	0.223	0.255
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	Full Power	4182	836.4	23.41	24.00	1.146	-0.15	0.499	0.572
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	Full Power	26865	831.5	23.16	24.00	1.213	0.07	0.571	0.693
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	Full Power	26865	831.5	22.23	23.00	1.194	0.15	0.420	0.501
43	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	Full Power	26865	831.5	23.16	24.00	1.213	-0.07	0.658	<b>0.798</b>
	LTE Band 26-ENDC	15M	QPSK	1	0	-	Back	5mm	Ant0	Reduced	26865	831.5	21.63	22.50	1.222	0.09	0.443	0.541
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 0	Full Power	20525+20624	836.5+846.4	22.78	24.00	1.324	0.04	0.559	0.740
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	Full Power	26865	831.5	22.23	23.00	1.194	0.17	0.597	0.713
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	Full Power	26865	831.5	23.16	24.00	1.213	-0.12	0.101	0.123
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	Full Power	26865	831.5	22.23	23.00	1.194	-0.18	0.082	0.098
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 0	Full Power	26865	831.5	23.16	24.00	1.213	-0.09	0.183	0.222
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 0	Full Power	26865	831.5	22.23	23.00	1.194	0.09	0.166	0.198
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Full Power	26865	831.5	23.16	24.00	1.213	-0.04	0.642	0.779
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 0	Full Power	26865	831.5	22.23	23.00	1.194	0.17	0.434	0.518
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	Full Power	26865	831.5	23.02	24.00	1.253	-0.11	0.534	0.669
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	Full Power	26865	831.5	22.06	23.00	1.242	0.03	0.417	0.518
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	Full Power	26865	831.5	23.02	24.00	1.253	-0.08	0.536	0.672
	LTE Band 26-ENDC	15M	QPSK	1	0	-	Back	5mm	Ant1	Reduced	26865	831.5	22.13	23.00	1.222	0.07	0.395	0.483
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 1	Full Power	20525+20624	836.5+846.4	22.56	24.00	1.393	-0.07	0.467	0.651
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	Full Power	26865	831.5	22.06	23.00	1.242	0.18	0.422	0.524
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 1	Full Power	26865	831.5	23.02	24.00	1.253	0.03	0.199	0.249
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 1	Full Power	26865	831.5	22.06	23.00	1.242	-0.06	0.160	0.199
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 1	Full Power	26865	831.5	23.02	24.00	1.253	-0.11	0.169	0.212
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 1	Full Power	26865	831.5	22.06	23.00	1.242	0.02	0.133	0.165
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 1	Full Power	26865	831.5	23.02	24.00	1.253	0.03	0.509	0.638
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant 1	Full Power	26865	831.5	22.06	23.00	1.242	-0.03	0.402	0.499
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	Full Power	166300	831.5	22.88	24.00	1.294	-0.03	0.402	0.520
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	Full Power	166300	831.5	22.76	24.00	1.330	-0.15	0.391	0.520
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Full Power	166300	831.5	22.88	24.00	1.294	0.06	0.508	0.657
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	Full Power	166300	831.5	22.76	24.00	1.330	-0.01	0.512	0.681
	FR1 n26-NSA	20M	QPSK	50	28	DFT-15	Back	5mm	Ant0	Reduced	166300	831.5	21.68	23.00	1.355	0.01	0.420	0.569
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	Full Power	166300	831.5	22.88	24.00	1.294	-0.1	0.086	0.111
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Side	5mm	Ant 0	Full Power	166300	831.5	22.76	24.00	1.330	-0.02	0.088	0.117
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 0	Full Power	166300	831.5	22.88	24.00	1.294	-0.14	0.153	0.198
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Side	5mm	Ant 0	Full Power	166300	831.5	22.76	24.00	1.330	-0.06	0.174	0.231
	FR1 n26	20M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	Full Power	166300	831.5	22.88	24.00	1.294	-0.06	0.458	0.593
	FR1 n26	20M	QPSK	50	28	DFT-15	Bottom Side	5mm	Ant 0	Full Power	166300	831.5	22.76	24.00	1.330	-0.01	0.412	0.548
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	Full Power	166300	831.5	22.55	24.00	1.396	-0.1	0.524	0.732
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	Full Power	166300	831.5	22.46	24.00	1.426	0.14	0.496	0.707
44	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	Full Power	166300	831.5	22.55	24.00	1.396	-0.05	0.584	<b>0.815</b>
	FR1 n26-NSA	20M	QPSK	1	1	DFT-15	Back	5mm	Ant1	Reduced	166300	831.5	21.32	22.50	1.312	-0.08	0.427	0.560
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	Full Power	166300	831.5	22.46	24.00	1.426	0.02	0.561	0.800
	FR1 n26	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 1	Full Power	166300	831.5	21.53	23.00	1.403	0.08	0.528	0.741
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	Full Power	166300	831.5	22.55	24.00	1.396	-0.04	0.172	0.240
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Side	5mm	Ant 1	Full Power	166300	831.5	22.46	24.00	1.426	-0.1	0.185	0.264
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	Full Power	166300	831.5	22.55	24.00	1.396	-0.02	0.190	0.265
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Side	5mm	Ant 1	Full Power	166300	831.5	22.46	24.00	1.426	-0.16	0.161	0.230
	FR1 n26	20M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	Full Power	166300	831.5	22.55	24.00	1.396	0.11	0.480	0.670
	FR1 n26	20M	QPSK	50	28	DFT-15	Top Side	5mm	Ant 1	Full Power	166300	831.5	22.46	24.00	1.426	-0.18	0.525	0.748



**FCC SAR Test Report**

**Report No. : FA240834**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)	
<b>1750MHz</b>																			
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	Reduced	1413	1732.6	17.13	18.00	1.222	-0.14	0.840	1.026	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	Reduced	1312	1712.4	17.01	18.00	1.256	0.14	0.589	0.740	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	Reduced	1513	1752.6	17.12	18.00	1.225	0.17	0.505	0.618	
45	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Reduced	1413	1732.6	17.13	18.00	1.222	0.04	1.170	<b>1.430</b>	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Reduced	1312	1712.4	17.01	18.00	1.256	-0.1	0.939	1.179	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Reduced	1513	1752.6	17.12	18.00	1.225	0.03	0.863	1.057	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	Reduced	1413	1732.6	16.16	17.00	1.213	-0.09	0.176	0.214	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	Reduced	1413	1732.6	16.16	17.00	1.213	-0.06	0.290	0.352	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	Reduced	1413	1732.6	16.16	17.00	1.213	0.08	1.110	1.347	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	Reduced	1312	1712.4	16.12	17.00	1.225	-0.09	0.772	0.945	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	Reduced	1513	1752.6	16.12	17.00	1.225	0.09	0.750	0.918	
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	Reduced	132322	1745	17.23	18.00	1.194	0.06	0.717	0.856	
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	Reduced	132072	1720	17.00	18.00	1.259	0.04	0.765	0.963	
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	Reduced	132572	1770	17.06	18.00	1.242	-0.09	0.715	0.888	
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	Reduced	132322	1745	16.23	17.00	1.194	-0.04	0.685	0.818	
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	Reduced	132072	1720	16.04	17.00	1.247	-0.09	0.645	0.805	
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	Reduced	132572	1770	15.95	17.00	1.274	0.14	0.595	0.758	
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 0	Reduced	132322	1745	16.10	17.00	1.230	-0.01	0.592	0.728	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	Reduced	132322	1745	17.23	18.00	1.194	-0.14	1.120	1.337	
46	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	Reduced	132072	1720	17.00	18.00	1.259	0.09	1.120	<b>1.410</b>	
	LTE Band 66-ENDC	20M	QPSK	1	0	-	Back	5mm	Ant0	Reduced	132072	1720	12.98	14.00	1.265	0.09	0.460	0.582	
	LTE Band 66C	20M	QPSK	1	99	-	Back	5mm	Ant 0	Reduced	132072 +132270	1720 +1739.8	16.97	18.00	1.268	0.09	1.090	1.382	
	LTE Band 66C	20M	QPSK	1	99	-	Back	5mm	Ant 0	Reduced	132322 +132520	1745 +1764.8	17.18	18.00	1.208	-0.1	0.982	1.186	
	LTE Band 66C	20M	QPSK	1	0	-	Back	5mm	Ant 0	Reduced	132572 +132374	1770 +1750.2	16.97	18.00	1.268	-0.09	1.010	1.280	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	Reduced	132572	1770	17.06	18.00	1.242	0.12	1.060	1.316	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	Reduced	132322	1745	16.23	17.00	1.194	-0.04	0.960	1.146	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	Reduced	132072	1720	16.04	17.00	1.247	-0.11	0.955	1.191	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	Reduced	132572	1770	15.95	17.00	1.274	-0.15	0.923	1.175	
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	Reduced	132322	1745	16.10	17.00	1.230	-0.16	0.915	1.126	
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	Reduced	132322	1745	16.24	17.00	1.191	-0.18	0.188	0.224	
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	Reduced	132322	1745	15.26	16.00	1.186	0.03	0.171	0.203	
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	Reduced	132322	1745	16.24	17.00	1.191	0.03	0.233	0.278	
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	Reduced	132322	1745	15.26	16.00	1.186	-0.09	0.218	0.258	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Reduced	132322	1745	16.24	17.00	1.191	-0.04	1.050	1.251	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Reduced	132072	1720	16.10	17.00	1.230	0.09	1.130	1.390	
	LTE Band 66-ENDC	20M	QPSK	1	0	-	Bottom Side	5mm	Ant0	Reduced	132072	1720	12.55	13.50	1.245	0.01	0.461	0.574	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Reduced	132572	1770	16.10	17.00	1.230	0.14	0.997	1.227	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	Reduced	132322	1745	15.26	16.00	1.186	0.02	0.838	0.994	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	Reduced	132072	1720	15.16	16.00	1.213	0.1	0.909	1.103	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	Reduced	132572	1770	15.02	16.00	1.253	0.13	0.915	1.147	
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	Reduced	132322	1745	15.16	16.00	1.213	-0.11	0.909	1.103	
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	Reduced	132322	1745	16.74	17.50	1.191	0.13	0.609	0.725	
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	Reduced	132322	1745	15.71	16.50	1.199	0.16	0.473	0.567	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	Reduced	132322	1745	16.74	17.50	1.191	-0.03	0.808	0.963	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	Reduced	132072	1720	16.51	17.50	1.256	0.06	0.653	0.820	
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	Reduced	132572	1770	16.49	17.50	1.262	0.07	0.926	1.168	
	LTE Band 66-ENDC	20M	QPSK	1	0	-	Back	5mm	Ant1	Reduced	132572	1770	13.96	14.50	1.132	0.02	0.454	0.514	
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	Reduced	132322	1745	15.71	16.50	1.199	0.18	0.629	0.754	
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	Reduced	132322	1745	15.60	16.50	1.230	0.14	0.620	0.763	
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	Reduced	132322	1745	15.09	16.00	1.233	-0.14	0.131	0.162	
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	Reduced	132322	1745	14.15	15.00	1.216	-0.14	0.105	0.128	
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	Reduced	132322	1745	15.09	16.00	1.233	-0.18	0.012	0.015	





**FCC SAR Test Report**

**Report No. : FA240834**

	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	Reduced	132322	1745	14.15	15.00	1.216	0.07	0.000	0.000
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Reduced	132322	1745	15.09	16.00	1.233	0.15	0.847	1.044
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Reduced	132072	1720	15.03	16.00	1.250	0.15	0.703	0.879
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Reduced	132572	1770	14.83	16.00	1.309	0.09	0.911	1.193
	LTE Band 66-ENDC	20M	QPSK	1	0	-	Top Side	5mm	Ant1	Reduced	132572	1770	11.96	13.00	1.271	0.09	0.464	0.589
	LTE Band 66C	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	Reduced	132572 +132374	1770 +1750.2	14.78	16.00	1.324	0.03	0.821	1.087
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Reduced	132322	1745	14.15	15.00	1.216	0.17	0.682	0.829
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Reduced	132072	1720	13.98	15.00	1.265	0.05	0.560	0.708
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	Reduced	132572	1770	13.81	15.00	1.315	-0.18	0.763	1.004
	LTE Band 66	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	Reduced	132322	1745	14.18	15.00	1.208	0.02	0.671	0.810
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	Reduced	349000	1745	18.39	19.00	1.151	-0.1	0.632	0.727
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	Reduced	349000	1745	18.34	19.00	1.164	0.18	0.757	0.881
	FR1 n66	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 0	Reduced	349000	1745	18.27	19.00	1.183	-0.02	0.615	0.728
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Reduced	349000	1745	18.39	19.00	1.151	-0.05	1.020	1.174
47	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	Reduced	349000	1745	18.34	19.00	1.164	-0.01	1.060	<b>1.234</b>
	FR1 n66-NSA	40M	QPSK	108	54	DFT-15	Back	5mm	Ant0	Reduced	349000	1745	14.45	15.00	1.135	0.11	0.469	0.532
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	Reduced	349000	1745	18.27	19.00	1.183	-0.14	0.913	1.080
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	Reduced	349000	1745	17.65	18.00	1.084	-0.05	0.046	0.050
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 0	Reduced	349000	1745	17.60	18.00	1.096	-0.16	0.066	0.072
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 0	Reduced	349000	1745	17.65	18.00	1.084	-0.03	0.158	0.171
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Side	5mm	Ant 0	Reduced	349000	1745	17.60	18.00	1.096	-0.11	0.273	0.299
	FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	Reduced	349000	1745	17.65	18.00	1.084	-0.02	0.918	0.995
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant 0	Reduced	349000	1745	17.60	18.00	1.096	-0.03	1.020	1.118
	FR1 n66-NSA	40M	QPSK	108	54	DFT-15	Bottom Side	5mm	Ant0	Reduced	349000	1745	14.16	14.50	1.081	-0.15	0.511	0.553
	FR1 n66	40M	QPSK	216	0	DFT-15	Bottom Side	5mm	Ant 0	Reduced	349000	1745	17.49	18.00	1.125	-0.05	0.874	0.983
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	Reduced	349000	1745	19.69	20.00	1.074	-0.14	0.599	0.643
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	Reduced	349000	1745	19.67	20.00	1.079	0.07	0.624	0.673
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	Reduced	349000	1745	19.69	20.00	1.074	-0.08	0.799	0.858
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	Reduced	349000	1745	19.67	20.00	1.079	0.01	0.966	1.042
	FR1 n66-NSA	40M	QPSK	108	54	DFT-15	Back	5mm	Ant1	Reduced	349000	1745	16.10	17.00	1.230	0.01	0.484	0.595
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 1	Reduced	349000	1745	19.63	20.00	1.089	0.01	0.701	0.763
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	Reduced	349000	1745	16.96	18.00	1.271	0.14	0.095	0.121
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 1	Reduced	349000	1745	16.92	18.00	1.282	0.11	0.104	0.133
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	Reduced	349000	1745	16.96	18.00	1.271	0.15	0.021	0.027
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Side	5mm	Ant 1	Reduced	349000	1745	16.92	18.00	1.282	0.02	0.053	0.068
	FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	Reduced	349000	1745	16.96	18.00	1.271	-0.08	0.678	0.861
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	5mm	Ant 1	Reduced	349000	1745	16.92	18.00	1.282	0.01	0.827	1.060
	FR1 n66-NSA	40M	QPSK	108	54	DFT-15	Top Side	5mm	Ant1	Reduced	349000	1745	13.97	15.00	1.268	0.05	0.391	0.496
	FR1 n66	40M	QPSK	216	0	DFT-15	Top Side	5mm	Ant 1	Reduced	349000	1745	16.83	18.00	1.309	0.17	0.584	0.765
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	Reduced	340500	1702.5	18.46	19.00	1.132	0.09	0.705	0.798
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	Reduced	340500	1702.5	18.39	19.00	1.151	-0.05	0.766	0.882
	FR1 n70	15M	QPSK	75	0	DFT-15	Front	5mm	Ant 0	Reduced	340500	1702.5	18.32	19.00	1.169	-0.02	0.603	0.705
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Reduced	340500	1702.5	18.46	19.00	1.132	-0.19	0.902	1.021
48	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	Reduced	340500	1702.5	18.39	19.00	1.151	0.03	0.950	<b>1.093</b>
	FR1 n70-NSA	15M	QPSK	36	22	DFT-15	Back	5mm	Ant0	Reduced	340500	1702.5	14.69	15.00	1.074	0.08	0.475	0.510
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 0	Reduced	340500	1702.5	18.32	19.00	1.169	-0.17	0.841	0.984
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 0	Reduced	340500	1702.5	18.53	19.00	1.114	-0.17	0.128	0.143
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Side	5mm	Ant 0	Reduced	340500	1702.5	18.45	19.00	1.135	0.05	0.144	0.163
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 0	Reduced	340500	1702.5	18.53	19.00	1.114	0.19	0.077	0.086
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Side	5mm	Ant 0	Reduced	340500	1702.5	18.45	19.00	1.135	0.08	0.093	0.106
	FR1 n70	15M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 0	Reduced	340500	1702.5	18.53	19.00	1.114	-0.08	0.834	0.929
	FR1 n70	15M	QPSK	36	22	DFT-15	Bottom Side	5mm	Ant 0	Reduced	340500	1702.5	18.45	19.00	1.135	0.07	0.958	1.087
	FR1 n70-NSA	15M	QPSK	36	22	DFT-15	Bottom Side	5mm	Ant0	Reduced	340500	1702.5	14.27	15.00	1.183	0.1	0.453	0.536
	FR1 n70	15M	QPSK	75	0	DFT-15	Bottom Side	5mm	Ant 0	Reduced	340500	1702.5	18.35	19.00	1.161	-0.06	0.784	0.911
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	Reduced	340500	1702.5	19.63	20.50	1.222	-0.03	0.555	0.678
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	Reduced	340500	1702.5	19.56	20.50	1.242	0.17	0.612	0.760

**Sporton International Inc. (Kunshan)**

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHDT56AE7

Issued Date : Jul. 14, 2022

Form version. : 200414



	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	Reduced	340500	1702.5	19.63	20.50	1.222	0.07	0.788	0.963	
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	Reduced	340500	1702.5	19.56	20.50	1.242	-0.02	0.845	1.049	
	FR1 n70-NSA	15M	QPSK	36	22	DFT-15	Back	5mm	Ant1	Reduced	340500	1702.5	16.43	17.50	1.279	0.14	0.468	0.599	
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 1	Reduced	340500	1702.5	19.52	20.50	1.253	0.13	0.717	0.899	
	FR1 n70	15M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 1	Reduced	340500	1702.5	19.63	20.50	1.222	-0.17	0.124	0.152	
	FR1 n70	15M	QPSK	36	22	DFT-15	Left Side	5mm	Ant 1	Reduced	340500	1702.5	19.56	20.50	1.242	0.09	0.011	0.014	
	FR1 n70	15M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 1	Reduced	340500	1702.5	19.63	20.50	1.222	0.02	0.017	0.021	
	FR1 n70	15M	QPSK	36	22	DFT-15	Right Side	5mm	Ant 1	Reduced	340500	1702.5	19.56	20.50	1.242	0.06	0.033	0.041	
	FR1 n70	15M	QPSK	1	1	DFT-15	Top Side	5mm	Ant 1	Reduced	340500	1702.5	19.63	20.50	1.222	-0.12	0.863	1.054	
	FR1 n70	15M	QPSK	36	22	DFT-15	Top Side	5mm	Ant 1	Reduced	340500	1702.5	19.56	20.50	1.242	0.16	0.863	1.072	
	FR1 n70-NSA	15M	QPSK	36	22	DFT-15	Top Side	5mm	Ant1	Reduced	340500	1702.5	16.43	17.50	1.279	0.1	0.404	0.517	
	FR1 n70	15M	QPSK	75	0	DFT-15	Top Side	5mm	Ant 1	Reduced	340500	1702.5	19.52	20.50	1.253	-0.15	0.765	0.959	
<b>1900MHz</b>																			
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	Reduced	661	1880	19.25	20.00	1.189	0.07	0.710	0.844	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	Reduced	512	1850.2	19.19	20.00	1.205	0.03	0.550	0.663	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	Reduced	810	1909.8	19.17	20.00	1.211	-0.18	0.676	0.818	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Reduced	661	1880	19.25	20.00	1.189	0.04	0.976	1.160	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Reduced	512	1850.2	19.19	20.00	1.205	-0.06	0.852	1.027	
49	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Reduced	810	1909.8	19.17	20.00	1.211	0.03	1.100	<b>1.332</b>	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	Reduced	661	1880	18.37	19.00	1.156	0.14	0.034	0.039	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	Reduced	661	1880	18.37	19.00	1.156	-0.06	0.036	0.042	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	Reduced	661	1880	18.37	19.00	1.156	-0.06	0.931	1.076	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	Reduced	512	1850.2	18.31	19.00	1.172	0.11	0.874	1.024	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	Reduced	810	1909.8	18.24	19.00	1.191	0.12	0.834	0.993	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	Reduced	9400	1880	16.23	17.00	1.194	-0.09	0.776	0.927	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	Reduced	9262	1852.4	15.99	17.00	1.262	0.09	0.625	0.789	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	Reduced	9538	1907.6	16.06	17.00	1.242	0.16	0.569	0.707	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Reduced	9400	1880	16.23	17.00	1.194	0.18	1.130	1.349	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Reduced	9262	1852.4	15.99	17.00	1.262	-0.1	1.010	1.274	
50	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Reduced	9538	1907.6	16.06	17.00	1.242	0.01	1.130	<b>1.403</b>	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	Reduced	9400	1880	15.29	16.00	1.178	-0.04	0.197	0.232	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	Reduced	9400	1880	15.29	16.00	1.178	0.17	0.192	0.226	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	Reduced	9400	1880	15.29	16.00	1.178	-0.14	1.120	1.319	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	Reduced	9262	1852.4	15.09	16.00	1.233	0.18	0.995	1.227	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	Reduced	9538	1907.6	15.16	16.00	1.213	-0.03	1.100	1.335	
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	Reduced	26340	1880	15.99	17.00	1.262	-0.11	0.718	0.906	
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	Reduced	26140	1860	15.87	17.00	1.297	-0.16	0.716	0.929	
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	Reduced	26590	1905	15.95	17.00	1.274	0.02	0.727	0.926	
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	Reduced	26340	1880	15.04	16.00	1.247	0.1	0.609	0.760	
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 0	Reduced	26340	1880	14.94	16.00	1.276	-0.12	0.596	0.761	
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	Reduced	26340	1880	15.99	17.00	1.262	0.01	1.050	1.325	
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	Reduced	26140	1860	15.87	17.00	1.297	0.12	1.030	1.336	
51	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	Reduced	26590	1905	15.95	17.00	1.274	0.03	1.120	<b>1.426</b>	
	LTE Band 25-ENDC	20M	QPSK	1	0	-	Back	5mm	Ant0	Reduced	26590	1905	11.87	13.00	1.297	-0.09	0.398	0.516	
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	Reduced	26340	1880	15.04	16.00	1.247	-0.15	0.908	1.133	
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	Reduced	26140	1860	14.83	16.00	1.309	-0.14	0.839	1.098	
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	Reduced	26590	1905	14.86	16.00	1.300	0.07	0.926	1.204	
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	Reduced	26340	1880	14.94	16.00	1.276	-0.07	0.890	1.136	
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	Reduced	26340	1880	15.05	16.00	1.245	0.01	0.219	0.273	
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	Reduced	26340	1880	14.16	15.00	1.213	-0.14	0.194	0.235	
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	Reduced	26340	1880	15.05	16.00	1.245	-0.04	0.221	0.275	
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	Reduced	26340	1880	14.16	15.00	1.213	-0.15	0.175	0.212	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Reduced	26340	1880	15.05	16.00	1.245	0.16	0.986	1.227	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Reduced	26140	1860	14.88	16.00	1.294	-0.1	1.010	1.307	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	Reduced	26590	1905	15.03	16.00	1.250	0.09	1.140	1.425	
	LTE Band 25-ENDC	20M	QPSK	1	0	-	Bottom Side	5mm	Ant0	Reduced	26590	1905	10.89	12.00	1.291	0.09	0.467	0.603	







**FCC SAR Test Report**

**Report No. : FA240834**

	LTE Band 30	10M	QPSK	50	0	-	Front	5mm	Ant 6	Reduced	27710	2310	19.90	21.00	1.288	-0.15	0.797	1.027
53	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 6	Reduced	27710	2310	19.99	21.00	1.262	0.07	0.954	1.204
	LTE Band 30-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant 6	Reduced	27710	2310	16.33	17.00	1.167	-0.06	0.430	0.502
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 6	Reduced	27710	2310	19.95	21.00	1.274	-0.04	0.922	1.174
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 6	Reduced	27710	2310	19.90	21.00	1.288	-0.09	0.912	1.175
	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant 6	Reduced	27710	2310	19.99	21.00	1.262	-0.17	0.475	0.599
	LTE Band 30	10M	QPSK	25	0	-	Left Side	5mm	Ant 6	Reduced	27710	2310	19.95	21.00	1.274	0.14	0.441	0.562
	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant 6	Reduced	27710	2310	19.99	21.00	1.262	-0.1	0.112	0.141
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant 6	Reduced	27710	2310	19.95	21.00	1.274	-0.16	0.083	0.106
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 6	Reduced	27710	2310	19.99	21.00	1.262	0.19	0.882	1.113
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 6	Reduced	27710	2310	19.95	21.00	1.274	0.13	0.740	0.942
	LTE Band 30	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 6	Reduced	27710	2310	19.90	21.00	1.288	0.04	0.713	0.919
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 6	Reduced	462000	2310	21.65	22.00	1.084	-0.07	0.706	0.765
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 6	Reduced	462000	2310	21.56	22.00	1.107	-0.07	0.768	0.850
	FR1 n30	10M	QPSK	50	0	DFT-15	Front	5mm	Ant 6	Reduced	462000	2310	21.51	22.00	1.119	-0.09	0.620	0.694
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 6	Reduced	462000	2310	21.65	22.00	1.084	-0.03	0.982	1.064
54	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 6	Reduced	462000	2310	21.56	22.00	1.107	0.02	1.050	1.162
	FR1 n30-NSA	10M	QPSK	25	14	DFT-15	Back	5mm	Ant6	Reduced	462000	2310	17.98	18.50	1.127	-0.11	0.440	0.496
	FR1 n30	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 6	Reduced	462000	2310	21.51	22.00	1.119	0.16	0.884	0.990
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Side	5mm	Ant 6	Reduced	462000	2310	21.65	22.00	1.084	-0.04	0.449	0.487
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Side	5mm	Ant 6	Reduced	462000	2310	21.56	22.00	1.107	0.04	0.545	0.603
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Side	5mm	Ant 6	Reduced	462000	2310	21.65	22.00	1.084	-0.02	0.055	0.060
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Side	5mm	Ant 6	Reduced	462000	2310	21.56	22.00	1.107	0.15	0.046	0.051
	FR1 n30	10M	QPSK	1	1	DFT-15	Bottom Side	5mm	Ant 6	Reduced	462000	2310	21.65	22.00	1.084	-0.11	0.639	0.693
	FR1 n30	10M	QPSK	25	14	DFT-15	Bottom Side	5mm	Ant 6	Reduced	462000	2310	21.56	22.00	1.107	-0.13	0.780	0.863
	FR1 n30	10M	QPSK	50	0	DFT-15	Bottom Side	5mm	Ant 6	Reduced	462000	2310	21.51	22.00	1.119	-0.07	0.693	0.776

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
<b>2600MHz</b>																				
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 6	Reduced	21100	2535	19.46	20.50	1.271	-	-	0.03	0.206	0.262
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 6	Reduced	21100	2535	18.30	19.50	1.318	-	-	-0.04	0.598	0.788
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 6	Reduced	21100	2535	19.46	20.50	1.271	-	-	-0.1	1.010	1.283
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 6	Reduced	20850	2510	19.31	20.50	1.315	-	-	0.12	0.728	0.957
55	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 6	Reduced	21350	2560	19.38	20.50	1.294	-	-	0.09	1.110	1.437
	LTE Band 7-ENDC	20M	QPSK	1	0	-	Back	5mm	Ant6	Reduced	21350	2560	15.30	16.50	1.318	-	-	-0.03	0.384	0.506
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 6	Reduced	21100	2535	18.30	19.50	1.318	-	-	0.06	0.814	1.073
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 6	Reduced	20850	2510	18.16	19.50	1.361	-	-	-0.17	0.768	1.046
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 6	Reduced	21350	2560	18.23	19.50	1.340	-	-	0.16	0.909	1.218
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 6	Reduced	21100	2535	18.28	19.50	1.324	-	-	0.14	0.794	1.052
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 6	Reduced	21100	2535	19.46	20.50	1.271	-	-	0.18	0.345	0.438
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 6	Reduced	21100	2535	18.30	19.50	1.318	-	-	0.11	0.259	0.341
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 6	Reduced	21100	2535	19.46	20.50	1.271	-	-	-0.07	0.159	0.202
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 6	Reduced	21100	2535	18.30	19.50	1.318	-	-	0.01	0.119	0.157
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 6	Reduced	21100	2535	19.46	20.50	1.271	-	-	0.08	0.723	0.919
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 6	Reduced	20850	2510	19.31	20.50	1.315	-	-	-0.15	0.557	0.733
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 6	Reduced	21350	2560	19.38	20.50	1.294	-	-	-0.11	0.773	1.000
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 6	Reduced	21100	2535	18.30	19.50	1.318	-	-	0.09	0.542	0.714
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 6	Reduced	21100	2535	18.28	19.50	1.324	-	-	0.03	0.557	0.738
	FR1 n7-NSA	50M	QPSK	1	1	DFT-15	Front	5mm	Ant8	Reduced	507000	2535	17.53	18.50	1.250	-	-	0.03	0.027	0.034
	FR1 n7-NSA	50M	QPSK	135	68	DFT-15	Front	5mm	Ant8	Reduced	507000	2535	17.49	18.50	1.262	-	-	0.05	0.030	0.038
56	FR1 n7-NSA	50M	QPSK	1	1	DFT-15	Back	5mm	Ant8	Reduced	507000	2535	17.53	18.50	1.250	-	-	0.09	0.413	0.516
	FR1 n7-NSA	50M	QPSK	135	68	DFT-15	Back	5mm	Ant8	Reduced	507000	2535	17.49	18.50	1.262	-	-	0.15	0.340	0.429
	FR1 n7-NSA	50M	QPSK	270	0	DFT-15	Back	5mm	Ant8	Reduced	507000	2535	17.43	18.50	1.279	-	-	0.06	0.257	0.329
	FR1 n7-NSA	50M	QPSK	1	1	DFT-15	Left Side	5mm	Ant8	Reduced	507000	2535	17.53	18.50	1.250	-	-	0.17	0.068	0.085



**FCC SAR Test Report**

**Report No. : FA240834**

	FR1 n7-NSA	50M	QPSK	135	68	DFT-15	Left Side	5mm	Ant8	Reduced	507000	2535	17.49	18.50	1.262	-	-	-0.06	0.059	0.074
	FR1 n7-NSA	50M	QPSK	1	1	DFT-15	Right Side	5mm	Ant8	Reduced	507000	2535	17.53	18.50	1.250	-	-	-0.06	0.024	0.030
	FR1 n7-NSA	50M	QPSK	135	68	DFT-15	Right Side	5mm	Ant8	Reduced	507000	2535	17.49	18.50	1.262	-	-	0.01	0.022	0.028
	FR1 n7-NSA	50M	QPSK	1	1	DFT-15	Top Side	5mm	Ant8	Reduced	507000	2535	17.53	18.50	1.250	-	-	-0.19	0.035	0.044
	FR1 n7-NSA	50M	QPSK	135	68	DFT-15	Top Side	5mm	Ant8	Reduced	507000	2535	17.49	18.50	1.262	-	-	-0.15	0.005	0.006
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	Reduced	518598	2592.99	18.64	20.00	1.368	-	-	0.08	0.534	0.730
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	Reduced	518598	2592.99	18.61	20.00	1.377	-	-	-0.16	0.740	1.019
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 5	Reduced	518598	2592.99	18.58	20.00	1.387	-	-	0.01	0.647	0.897
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	Reduced	518598	2592.99	18.64	20.00	1.368	-	-	-0.04	0.685	0.937
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	Reduced	518598	2592.99	18.61	20.00	1.377	-	-	0.01	0.875	1.205
	FR1 n41 UL MIMO	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	Reduced	518598	2592.99	15.48	17.00	1.419	-	-	0.06	0.374	0.531
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 5	Reduced	518598	2592.99	18.58	20.00	1.387	-	-	0.17	0.867	1.202
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 5	Reduced	518598	2592.99	18.64	20.00	1.368	-	-	-0.02	0.662	0.905
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 5	Reduced	518598	2592.99	18.61	20.00	1.377	-	-	-0.08	0.846	1.165
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Left Side	5mm	Ant 5	Reduced	518598	2592.99	18.58	20.00	1.387	-	-	-0.03	0.715	0.992
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	Reduced	518598	2592.99	18.64	20.00	1.368	-	-	0.19	0.071	0.097
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 5	Reduced	518598	2592.99	18.61	20.00	1.377	-	-	-0.15	0.052	0.072
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 5	Reduced	518598	2592.99	18.64	20.00	1.368	-	-	0.05	0.068	0.093
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 5	Reduced	518598	2592.99	18.61	20.00	1.377	-	-	-0.18	0.038	0.052
	FR1 n41 HPUE	100M	QPSK	1	1		Front	5mm	Ant 6	Reduced	518598	2592.99	21.53	22.00	1.114	-	-	-0.14	0.757	0.844
	FR1 n41 HPUE	100M	QPSK	135	69		Front	5mm	Ant 6	Reduced	518598	2592.99	21.49	22.00	1.125	-	-	0.08	0.561	0.631
	FR1 n41 HPUE	100M	QPSK	270	0		Front	5mm	Ant 6	Reduced	518598	2592.99	21.37	22.00	1.156	-	-	-0.18	0.574	0.664
	FR1 n41 HPUE	100M	QPSK	1	1		Back	5mm	Ant 6	Reduced	518598	2592.99	21.53	22.00	1.114	-	-	-0.15	0.971	1.082
	FR1 n41 HPUE-NSA	100M	QPSK	1	1		Back	5mm	Ant 6	Reduced	518598	2592.99	17.40	18.00	1.148	-	-	-0.1	0.470	0.540
	FR1 n41 HPUE	100M	QPSK	135	69		Back	5mm	Ant 6	Reduced	518598	2592.99	21.49	22.00	1.125	-	-	-0.17	0.907	1.020
	FR1 n41 HPUE	100M	QPSK	270	0		Back	5mm	Ant 6	Reduced	518598	2592.99	21.37	22.00	1.156	-	-	-0.16	0.672	0.777
	FR1 n41 HPUE	100M	QPSK	1	1		Left Side	5mm	Ant 6	Reduced	518598	2592.99	21.53	22.00	1.114	-	-	-0.1	0.314	0.350
	FR1 n41 HPUE	100M	QPSK	135	69		Left Side	5mm	Ant 6	Reduced	518598	2592.99	21.49	22.00	1.125	-	-	-0.17	0.273	0.307
	FR1 n41 HPUE	100M	QPSK	1	1		Right Side	5mm	Ant 6	Reduced	518598	2592.99	21.53	22.00	1.114	-	-	-0.02	0.069	0.077
	FR1 n41 HPUE	100M	QPSK	135	69		Right Side	5mm	Ant 6	Reduced	518598	2592.99	21.49	22.00	1.125	-	-	-0.09	0.096	0.108
	FR1 n41 HPUE	100M	QPSK	1	1		Bottom Side	5mm	Ant 6	Reduced	518598	2592.99	21.53	22.00	1.114	-	-	0.1	0.670	0.747
	FR1 n41 HPUE	100M	QPSK	135	69		Bottom Side	5mm	Ant 6	Reduced	518598	2592.99	21.49	22.00	1.125	-	-	-0.18	0.513	0.577
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	Reduced	518598	2592.99	20.84	21.80	1.247	-	-	-0.17	0.691	0.862
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7	Reduced	518598	2592.99	20.78	21.80	1.265	-	-	-0.08	0.899	1.137
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 7	Reduced	518598	2592.99	20.73	21.80	1.279	-	-	-0.12	0.664	0.850
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	Reduced	518598	2592.99	20.84	21.80	1.247	-	-	0.12	0.818	1.020
57	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	Reduced	518598	2592.99	20.78	21.80	1.265	-	-	0.02	0.962	1.217
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 7	Reduced	518598	2592.99	20.73	21.80	1.279	-	-	0.19	0.895	1.145
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 7	Reduced	518598	2592.99	20.34	21.00	1.164	-	-	0.08	0.031	0.036
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 7	Reduced	518598	2592.99	20.28	21.00	1.180	-	-	0.03	0.021	0.025
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 7	Reduced	518598	2592.99	20.34	21.00	1.164	-	-	-0.09	0.840	0.978
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 7	Reduced	518598	2592.99	20.28	21.00	1.180	-	-	-0.16	0.852	1.006
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Right Side	5mm	Ant 7	Reduced	518598	2592.99	20.23	21.00	1.194	-	-	-0.17	0.821	0.980
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 7	Reduced	518598	2592.99	20.34	21.00	1.164	-	-	-0.02	0.314	0.366
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 7	Reduced	518598	2592.99	20.28	21.00	1.180	-	-	-0.16	0.333	0.393
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	Sensor	518598	2592.99	19.66	20.80	1.300	-	-	-0.17	0.054	0.070
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	Sensor	518598	2592.99	19.56	20.80	1.330	-	-	0.07	0.043	0.057
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	Sensor	518598	2592.99	19.66	20.80	1.300	-	-	0.05	0.909	1.182
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-30	Back	5mm	Ant8	Sensor	518598	2592.99	16.72	17.80	1.282	-	-	0.02	0.433	0.555
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	Sensor	518598	2592.99	19.56	20.80	1.330	-	-	0.02	0.759	1.010
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	Sensor	518598	2592.99	19.44	20.80	1.368	-	-	-0.05	0.722	0.988
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 8	Hotspot	518598	2592.99	19.66	20.80	1.300	-	-	0.12	0.209	0.272
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 8	Hotspot	518598	2592.99	19.56	20.80	1.330	-	-	-0.19	0.097	0.129
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 8	Hotspot	518598	2592.99	19.66	20.80	1.300	-	-	-0.1	0.044	0.057
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 8	Hotspot	518598	2592.99	19.56	20.80	1.330	-	-	0.13	0.001	0.001
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	Hotspot	518598	2592.99	19.66	20.80	1.300	-	-	0.18	0.063	0.082



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	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 8	Hotspot	518598	2592.99	19.56	20.80	1.330	-	-	0.12	0.021	0.028
	LTE Band 41	20M	QPSK	1	0		Front	5mm	Ant 6	Sensor	40620	2593	20.73	21.50	1.194	62.9	1.006	0.1	0.789	0.948
	LTE Band 41	20M	QPSK	1	0		Front	5mm	Ant 6	Sensor	39750	2506	20.60	21.50	1.230	62.9	1.006	0.02	0.561	0.694
	LTE Band 41	20M	QPSK	1	0		Front	5mm	Ant 6	Sensor	40185	2549.5	20.59	21.50	1.233	62.9	1.006	-0.06	0.580	0.719
	LTE Band 41	20M	QPSK	1	0		Front	5mm	Ant 6	Sensor	41055	2636.5	20.41	21.50	1.285	62.9	1.006	0.11	0.553	0.715
	LTE Band 41	20M	QPSK	1	0		Front	5mm	Ant 6	Sensor	41490	2680	20.51	21.50	1.256	62.9	1.006	0.03	0.722	0.912
	LTE Band 41	20M	QPSK	50	0		Front	5mm	Ant 6	Sensor	40620	2593	20.66	21.50	1.213	62.9	1.006	0.13	0.789	0.963
	LTE Band 41	20M	QPSK	50	0		Front	5mm	Ant 6	Sensor	39750	2506	20.49	21.50	1.262	62.9	1.006	0.06	0.584	0.741
	LTE Band 41	20M	QPSK	50	0		Front	5mm	Ant 6	Sensor	40185	2549.5	20.58	21.50	1.236	62.9	1.006	-0.13	0.687	0.854
	LTE Band 41	20M	QPSK	50	0		Front	5mm	Ant 6	Sensor	41055	2636.5	20.27	21.50	1.327	62.9	1.006	0.17	0.769	1.027
	LTE Band 41	20M	QPSK	50	0		Front	5mm	Ant 6	Sensor	41490	2680	20.29	21.50	1.321	62.9	1.006	-0.01	0.691	0.918
	LTE Band 41	20M	QPSK	100	0		Front	5mm	Ant 6	Sensor	40620	2593	20.58	21.50	1.236	62.9	1.006	-0.17	0.738	0.918
	LTE Band 41	20M	QPSK	1	0		Back	5mm	Ant 6	Sensor	40620	2593	20.73	21.50	1.194	62.9	1.006	0.1	0.858	1.031
58	LTE Band 41_HPUE	20M	QPSK	1	0		Back	5mm	Ant 6	Sensor	40620	2593	23.61	24.50	1.227	42.9	1.009	-0.07	1.120	1.387
	LTE Band 41C	20M	QPSK	1	99		Back	5mm	Ant 6	Sensor	40620+40818	2593+2612.8	19.98	21.50	1.419	62.9	1.006	0.1	0.721	1.029
	LTE Band 41C	20M	QPSK	1	99		Back	5mm	Ant 6	Sensor	39750+39948	2506+2525.8	19.72	21.50	1.507	62.9	1.006	0.02	0.637	0.965
	LTE Band 41C	20M	QPSK	1	99		Back	5mm	Ant 6	Sensor	40185+40383	2549.5+2569.3	19.85	21.50	1.462	62.9	1.006	-0.06	0.639	0.940
	LTE Band 41C	20M	QPSK	1	99		Back	5mm	Ant 6	Sensor	41055+41253	2636.5+2656.3	20.01	21.50	1.409	62.9	1.006	0.11	0.654	0.927
	LTE Band 41C	20M	QPSK	1	0		Back	5mm	Ant 6	Sensor	41490+41292	2680+2660.2	20.16	21.50	1.361	62.9	1.006	0.03	0.660	0.904
	LTE Band 41	20M	QPSK	1	0		Back	5mm	Ant 6	Sensor	39750	2506	20.60	21.50	1.230	62.9	1.006	-0.04	0.697	0.863
	LTE Band 41	20M	QPSK	1	0		Back	5mm	Ant 6	Sensor	40185	2549.5	20.59	21.50	1.233	62.9	1.006	0.08	0.722	0.896
	LTE Band 41	20M	QPSK	1	0		Back	5mm	Ant 6	Sensor	41055	2636.5	20.41	21.50	1.285	62.9	1.006	-0.06	0.626	0.809
	LTE Band 41	20M	QPSK	1	0		Back	5mm	Ant 6	Sensor	41490	2680	20.51	21.50	1.256	62.9	1.006	-0.02	0.805	1.017
	LTE Band 41	20M	QPSK	50	0		Back	5mm	Ant 6	Sensor	40620	2593	20.66	21.50	1.213	62.9	1.006	-0.12	0.827	1.009
	LTE Band 41	20M	QPSK	50	0		Back	5mm	Ant 6	Sensor	39750	2506	20.49	21.50	1.262	62.9	1.006	0.11	0.738	0.937
	LTE Band 41	20M	QPSK	50	0		Back	5mm	Ant 6	Sensor	40185	2549.5	20.58	21.50	1.236	62.9	1.006	0.07	0.823	1.023
	LTE Band 41	20M	QPSK	50	0		Back	5mm	Ant 6	Sensor	41055	2636.5	20.27	21.50	1.327	62.9	1.006	0.05	0.769	1.027
	LTE Band 41	20M	QPSK	50	0		Back	5mm	Ant 6	Sensor	41490	2680	20.29	21.50	1.321	62.9	1.006	0.06	0.765	1.017
	LTE Band 41	20M	QPSK	100	0		Back	5mm	Ant 6	Sensor	40620	2593	20.58	21.50	1.236	62.9	1.006	0.09	0.677	0.842
	LTE Band 41	20M	QPSK	1	0		Left Side	5mm	Ant 6	Hotspot	40620	2593	20.73	21.50	1.194	62.9	1.006	0.11	0.419	0.503
	LTE Band 41	20M	QPSK	50	0		Left Side	5mm	Ant 6	Hotspot	40620	2593	20.66	21.50	1.213	62.9	1.006	-0.12	0.789	0.963
	LTE Band 41	20M	QPSK	50	0		Left Side	5mm	Ant 6	Hotspot	39750	2506	20.49	21.50	1.262	62.9	1.006	0.1	0.262	0.333
	LTE Band 41	20M	QPSK	50	0		Left Side	5mm	Ant 6	Hotspot	40185	2549.5	20.58	21.50	1.236	62.9	1.006	0.02	0.291	0.362
	LTE Band 41	20M	QPSK	50	0		Left Side	5mm	Ant 6	Hotspot	41055	2636.5	20.27	21.50	1.327	62.9	1.006	-0.06	0.414	0.553
	LTE Band 41	20M	QPSK	50	0		Left Side	5mm	Ant 6	Hotspot	41490	2680	20.29	21.50	1.321	62.9	1.006	0.11	0.436	0.580
	LTE Band 41	20M	QPSK	100	0		Left Side	5mm	Ant 6	Hotspot	40620	2593	20.58	21.50	1.236	62.9	1.006	0.03	0.331	0.412
	LTE Band 41	20M	QPSK	1	0		Right Side	5mm	Ant 6	Hotspot	40620	2593	20.73	21.50	1.194	62.9	1.006	0.13	0.069	0.083
	LTE Band 41	20M	QPSK	50	0		Right Side	5mm	Ant 6	Hotspot	40620	2593	20.66	21.50	1.213	62.9	1.006	0.06	0.061	0.074
	LTE Band 41	20M	QPSK	1	0		Bottom Side	5mm	Ant 6	Hotspot	40620	2593	20.73	21.50	1.194	62.9	1.006	-0.13	0.680	0.817
	LTE Band 41	20M	QPSK	1	0		Bottom Side	5mm	Ant 6	Hotspot	39750	2506	20.60	21.50	1.230	62.9	1.006	0.13	0.535	0.662
	LTE Band 41	20M	QPSK	1	0		Bottom Side	5mm	Ant 6	Hotspot	40185	2549.5	20.59	21.50	1.233	62.9	1.006	0.17	0.558	0.692
	LTE Band 41	20M	QPSK	1	0		Bottom Side	5mm	Ant 6	Hotspot	41055	2636.5	20.41	21.50	1.285	62.9	1.006	-0.01	0.536	0.693
	LTE Band 41	20M	QPSK	1	0		Bottom Side	5mm	Ant 6	Hotspot	41490	2680	20.51	21.50	1.256	62.9	1.006	-0.17	0.806	1.018
	LTE Band 41	20M	QPSK	50	0		Bottom Side	5mm	Ant 6	Hotspot	40620	2593	20.66	21.50	1.213	62.9	1.006	0.1	0.789	0.963
	LTE Band 41	20M	QPSK	50	0		Bottom Side	5mm	Ant 6	Hotspot	39750	2506	20.49	21.50	1.262	62.9	1.006	-0.16	0.585	0.743
	LTE Band 41	20M	QPSK	50	0		Bottom Side	5mm	Ant 6	Hotspot	40185	2549.5	20.58	21.50	1.236	62.9	1.006	0.13	0.650	0.808
	LTE Band 41	20M	QPSK	50	0		Bottom Side	5mm	Ant 6	Hotspot	41055	2636.5	20.27	21.50	1.327	62.9	1.006	0.11	0.757	1.011
	LTE Band 41	20M	QPSK	50	0		Bottom Side	5mm	Ant 6	Hotspot	41490	2680	20.29	21.50	1.321	62.9	1.006	-0.12	0.769	1.022
	LTE Band 41	20M	QPSK	100	0		Bottom Side	5mm	Ant 6	Hotspot	40620	2593	20.58	21.50	1.236	62.9	1.006	0.05	0.759	0.944
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 8	Reduced	40620	2593	18.79	20.10	1.352	62.9	1.006	0.06	0.007	0.010
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 8	Reduced	40620	2593	18.28	19.10	1.208	62.9	1.006	-0.02	0.036	0.044
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 8	Reduced	40620	2593	18.79	20.10	1.352	62.9	1.006	-0.18	0.481	0.654
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 8	Reduced	39750	2506	18.52	20.10	1.439	62.9	1.006	-0.06	0.414	0.599
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 8	Reduced	40185	2549.5	18.48	20.10	1.452	62.9	1.006	0.05	0.387	0.565
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 8	Reduced	41055	2636.5	18.34	20.10	1.500	62.9	1.006	0.04	0.372	0.561



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**Report No. : FA240834**

LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 8	Reduced	41490	2680	18.30	20.10	1.514	62.9	1.006	-0.11	0.389	0.592
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 8	Reduced	40620	2593	18.28	19.10	1.208	62.9	1.006	0.02	0.620	0.753
LTE Band 41_HPUE	20M	QPSK	50	0	-	Back	5mm	Ant 8	Reduced	40620	2593	21.22	22.00	1.197	42.9	1.009	0.06	0.809	0.977
LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 8	Reduced	40620+40818	2593+2612.8	18.65	20.10	1.396	62.9	1.006	0.03	0.539	0.757
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 8	Reduced	39750	2506	17.92	19.10	1.312	62.9	1.006	-0.12	0.532	0.702
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 8	Reduced	40185	2549.5	18.07	19.10	1.268	62.9	1.006	0.09	0.572	0.729
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 8	Reduced	41055	2636.5	18.10	19.10	1.259	62.9	1.006	-0.07	0.507	0.642
LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 8	Reduced	41490	2680	17.97	19.10	1.297	62.9	1.006	0.14	0.434	0.566
LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 8	Reduced	40620	2593	18.10	19.10	1.259	62.9	1.006	-0.06	0.480	0.608
LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 8	Reduced	40620	2593	18.79	20.10	1.352	62.9	1.006	0.14	0.068	0.092
LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 8	Reduced	40620	2593	18.28	19.10	1.208	62.9	1.006	-0.06	0.083	0.101
LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 8	Reduced	40620	2593	18.79	20.10	1.352	62.9	1.006	-0.14	0.007	0.010
LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 8	Reduced	40620	2593	18.28	19.10	1.208	62.9	1.006	-0.07	0.007	0.009
LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 8	Reduced	40620	2593	18.79	20.10	1.352	62.9	1.006	-0.19	0.019	0.026
LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 8	Reduced	40620	2593	18.28	19.10	1.208	62.9	1.006	0.14	0.029	0.035
<b>3500MHz-3900MHz</b>																			
LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 3	Reduced	55830	3609	17.34	18.00	1.164	62.9	1.006	0.16	0.158	0.185
LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 3	Reduced	55830	3609	16.35	17.00	1.161	62.9	1.006	-0.12	0.127	0.148
LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	Reduced	55830	3609	17.34	18.00	1.164	62.9	1.006	-0.07	0.934	1.094
LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	Reduced	55340	3560	17.18	18.00	1.208	62.9	1.006	0.1	0.962	1.169
LTE Band 48-ENDC	20M	QPSK	1	0	-	Back	5mm	Ant3	Reduced	55340	3560	14.18	15.00	1.208	62.9	1.006	0.01	0.451	0.548
LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 3	Reduced	55340+55538	3560+3579.8	17.03	18.00	1.250	62.9	1.006	0.03	0.854	1.074
LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	Reduced	56150	3641	17.11	18.00	1.227	62.9	1.006	0.15	0.840	1.037
LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	Reduced	56640	3690	17.22	18.00	1.197	62.9	1.006	0.17	0.890	1.071
LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	Reduced	55830	3609	16.35	17.00	1.161	62.9	1.006	0.05	0.536	0.626
LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	Reduced	55340	3560	16.16	17.00	1.213	62.9	1.006	-0.11	0.552	0.674
LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	Reduced	56150	3641	16.06	17.00	1.242	62.9	1.006	0.15	0.680	0.849
LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	Reduced	56640	3690	16.33	17.00	1.167	62.9	1.006	-0.16	0.721	0.846
LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 3	Reduced	55830	3609	16.31	17.00	1.172	62.9	1.006	-0.18	0.577	0.680
LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	Reduced	55830	3609	17.34	18.00	1.164	62.9	1.006	-0.05	0.367	0.430
LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 3	Reduced	55830	3609	16.35	17.00	1.161	62.9	1.006	0.14	0.316	0.369
LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 3	Reduced	55830	3609	17.34	18.00	1.164	62.9	1.006	-0.02	0.016	0.019
LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 3	Reduced	55830	3609	16.35	17.00	1.161	62.9	1.006	-0.02	0.009	0.011
LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 3	Reduced	55830	3609	17.34	18.00	1.164	62.9	1.006	-0.04	0.109	0.128
LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 3	Reduced	55830	3609	16.35	17.00	1.161	62.9	1.006	0.12	0.088	0.103
LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 4	Reduced	55830	3609	17.56	18.20	1.159	62.9	1.006	0.13	0.103	0.120
LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 4	Reduced	55830	3609	16.52	17.20	1.169	62.9	1.006	-0.17	0.069	0.081
LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	Reduced	55830	3609	17.56	18.20	1.159	62.9	1.006	0.07	0.808	0.942
LTE Band 48-ENDC	20M	QPSK	1	0	-	Back	5mm	Ant4	Reduced	55830	3609	14.53	15.20	1.167	62.9	1.006	0.02	0.391	0.459
LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 4	Reduced	55830+56028	3609+3628.8	17.46	18.20	1.186	62.9	1.006	0.01	0.685	0.817
LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	Reduced	55340	3560	17.51	18.20	1.172	62.9	1.006	0.09	0.718	0.847
LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	Reduced	56150	3641	17.31	18.20	1.227	62.9	1.006	-0.09	0.725	0.895
LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	Reduced	56640	3690	17.40	18.20	1.202	62.9	1.006	0.19	0.722	0.873
LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 4	Reduced	55830	3609	16.52	17.20	1.169	62.9	1.006	-0.13	0.622	0.732
LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 4	Reduced	55340	3560	16.43	17.20	1.194	62.9	1.006	-0.08	0.585	0.703
LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 4	Reduced	56150	3641	16.31	17.20	1.227	62.9	1.006	-0.17	0.582	0.719
LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 4	Reduced	56640	3690	16.26	17.20	1.242	62.9	1.006	0.11	0.579	0.723
LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 4	Reduced	55830	3609	16.47	17.20	1.183	62.9	1.006	0.01	0.622	0.740
LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	Reduced	55830	3609	17.56	18.20	1.159	62.9	1.006	0.18	0.066	0.077
LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	Reduced	55830	3609	16.52	17.20	1.169	62.9	1.006	0.05	0.056	0.066
LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	Reduced	55830	3609	17.56	18.20	1.159	62.9	1.006	0.12	0.011	0.013
LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	Reduced	55830	3609	16.52	17.20	1.169	62.9	1.006	-0.03	0.010	0.012
LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	Reduced	55830	3609	17.56	18.20	1.159	62.9	1.006	-0.12	0.180	0.210
LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	Reduced	55830	3609	16.52	17.20	1.169	62.9	1.006	-0.01	0.153	0.180
LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	Reduced	55830	3609	17.81	18.40	1.146	62.9	1.006	-0.13	0.033	0.038





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**Report No. : FA240834**

	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	Reduced	55830	3609	16.78	17.40	1.153	62.9	1.006	0.07	0.026	0.030
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	Reduced	55830	3609	17.81	18.40	1.146	62.9	1.006	0.01	0.824	0.950
	LTE Band 48-ENDC	20M	QPSK	1	0	-	Back	5mm	Ant5	Reduced	55830	3609	14.76	15.40	1.159	62.9	1.006	0.09	0.397	0.463
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 5	Reduced	55830+ 56028	3609+ 3628.8	17.77	18.40	1.156	62.9	1.006	0.03	0.751	0.873
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	Reduced	55340	3560	17.62	18.40	1.197	62.9	1.006	0.05	0.609	0.733
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	Reduced	56150	3641	17.56	18.40	1.213	62.9	1.006	0.18	0.759	0.926
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	Reduced	56640	3690	17.54	18.40	1.219	62.9	1.006	0.06	0.725	0.889
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	Reduced	55830	3609	16.78	17.40	1.153	62.9	1.006	0.04	0.551	0.639
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	Reduced	55340	3560	16.65	17.40	1.189	62.9	1.006	-0.14	0.370	0.442
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	Reduced	56150	3641	16.69	17.40	1.178	62.9	1.006	-0.06	0.600	0.711
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	Reduced	56640	3690	16.54	17.40	1.219	62.9	1.006	-0.08	0.476	0.584
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 5	Reduced	55830	3609	16.69	17.40	1.178	62.9	1.006	0.12	0.547	0.648
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 5	Reduced	55830	3609	17.81	18.40	1.146	62.9	1.006	-0.18	0.236	0.272
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 5	Reduced	55830	3609	16.78	17.40	1.153	62.9	1.006	0.18	0.194	0.225
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	Reduced	55830	3609	17.81	18.40	1.146	62.9	1.006	-0.02	0.009	0.010
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 5	Reduced	55830	3609	16.78	17.40	1.153	62.9	1.006	-0.04	0.021	0.024
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 5	Reduced	55830	3609	17.81	18.40	1.146	62.9	1.006	-0.14	0.027	0.031
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 5	Reduced	55830	3609	16.78	17.40	1.153	62.9	1.006	0.1	0.017	0.020
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 8	Reduced	55830	3609	11.39	12.80	1.384	62.9	1.006	0.05	0.039	0.054
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 8	Reduced	55830	3609	10.46	11.80	1.361	62.9	1.006	-0.1	0.027	0.037
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	Reduced	55830	3609	11.39	12.80	1.384	62.9	1.006	0.17	0.727	1.012
59	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	Reduced	55340	3560	11.31	12.80	1.409	62.9	1.006	-0.08	0.841	1.192
	LTE Band 48-ENDC	20M	QPSK	1	0	-	Back	5mm	Ant8	Reduced	55340	3560	9.41	10.80	1.377	62.9	1.006	0.09	0.424	0.587
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 8	Reduced	55340+ 55538	3560+ 3579.8	11.16	12.80	1.459	62.9	1.006	0.06	0.748	1.098
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	Reduced	56150	3641	11.21	12.80	1.442	62.9	1.006	-0.05	0.495	0.718
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	Reduced	56640	3690	11.19	12.80	1.449	62.9	1.006	-0.04	0.344	0.501
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	Reduced	55830	3609	10.46	11.80	1.361	62.9	1.006	0.16	0.584	0.800
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	Reduced	55340	3560	10.23	11.80	1.435	62.9	1.006	-0.03	0.799	1.154
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	Reduced	56150	3641	10.15	11.80	1.462	62.9	1.006	0.19	0.585	0.861
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	Reduced	56640	3690	10.20	11.80	1.445	62.9	1.006	-0.01	0.751	1.092
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 8	Reduced	55830	3609	10.22	11.80	1.439	62.9	1.006	-0.03	0.499	0.722
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 8	Reduced	55830	3609	11.39	12.80	1.384	62.9	1.006	0.05	0.008	0.011
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 8	Reduced	55830	3609	10.46	11.80	1.361	62.9	1.006	-0.13	0.007	0.010
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 8	Reduced	55830	3609	11.39	12.80	1.384	62.9	1.006	0.12	0.004	0.006
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 8	Reduced	55830	3609	10.46	11.80	1.361	62.9	1.006	0.03	0.004	0.005
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 8	Reduced	55830	3609	11.39	12.80	1.384	62.9	1.006	-0.14	0.005	0.007
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 8	Reduced	55830	3609	10.46	11.80	1.361	62.9	1.006	-0.09	0.002	0.003
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 3	Reduced	641666	3624.99	17.78	19.00	1.324	-	-	0.13	0.248	0.328
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 3	Reduced	641666	3624.99	17.73	19.00	1.340	-	-	0.15	0.276	0.370
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	Reduced	641666	3624.99	17.78	19.00	1.324	-	-	-0.15	0.828	1.097
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	Reduced	638000	3570	17.68	19.00	1.355	-	-	-0.05	0.792	1.073
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	Reduced	645332	3679.98	17.66	19.00	1.361	-	-	0.12	0.802	1.092
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 3	Reduced	641666	3624.99	17.73	19.00	1.340	-	-	-0.05	0.890	1.192
	FR1 n48-NSA	40M	QPSK	50	28	DFT-30	Back	5mm	Ant3	Reduced	641666	3624.99	14.52	16.00	1.406	-	-	-0.09	0.424	0.596
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 3	Reduced	638000	3570	17.55	19.00	1.396	-	-	0.15	0.847	1.183
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 3	Reduced	645332	3679.98	17.49	19.00	1.416	-	-	-0.16	0.809	1.145
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 3	Reduced	641666	3624.99	17.65	19.00	1.365	-	-	-0.07	0.775	1.058
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 3	Reduced	641666	3624.99	17.78	19.00	1.324	-	-	-0.09	0.459	0.608
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 3	Reduced	638000	3570	17.68	19.00	1.355	-	-	0.03	0.417	0.565
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 3	Reduced	645332	3679.98	17.66	19.00	1.361	-	-	-0.05	0.395	0.538
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 3	Reduced	641666	3624.99	17.73	19.00	1.340	-	-	0.15	0.515	0.690
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 3	Reduced	638000	3570	17.55	19.00	1.396	-	-	1.000	-0.17	0.459
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 3	Reduced	645332	3679.98	17.49	19.00	1.416	-	-	1.000	-0.08	0.449
	FR1 n48	40M	QPSK	100	0	DFT-30	Left Side	5mm	Ant 3	Reduced	641666	3624.99	17.65	19.00	1.365	-	-	1.000	0.06	0.412
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 3	Reduced	641666	3624.99	17.78	19.00	1.324	-	-	0.16	0.016	0.021
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 3	Reduced	641666	3624.99	17.73	19.00	1.340	-	-	0.04	0.020	0.027

**Sporton International Inc. (Kunshan)**

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHDT56AE7

Issued Date : Jul. 14, 2022

Form version. : 200414



**FCC SAR Test Report**

**Report No. : FA240834**

	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 3	Reduced	641666	3624.99	17.78	19.00	1.324	-	-	-0.1	0.109	0.144
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 3	Reduced	641666	3624.99	17.73	19.00	1.340	-	-	-0.17	0.140	0.188
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	Reduced	641666	3624.99	15.07	16.70	1.455	-	-	-0.03	0.154	0.224
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 4	Reduced	641666	3624.99	15.03	16.70	1.469	-	-	-0.08	0.223	0.328
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	Reduced	641666	3624.99	15.07	16.70	1.455	-	-	0.02	0.820	1.193
	FR1 n48-NSA	40M	QPSK	1	1	DFT-30	Back	5mm	Ant4	Reduced	641666	3624.99	11.61	13.20	1.442	-	-	0.09	0.407	0.587
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	Reduced	638000	3570	14.94	16.70	1.500	-	-	0.15	0.780	1.170
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	Reduced	645332	3679.98	15.05	16.70	1.462	-	-	-0.03	0.760	1.111
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	Reduced	641666	3624.99	15.03	16.70	1.469	-	-	0.06	0.797	1.171
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	Reduced	638000	3570	14.83	16.70	1.538	-	-	-0.17	0.747	1.149
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	Reduced	645332	3679.98	14.93	16.70	1.503	-	-	-0.12	0.730	1.097
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 4	Reduced	641666	3624.99	14.95	16.70	1.496	-	-	0.01	0.718	1.074
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 4	Reduced	641666	3624.99	15.07	16.70	1.455	-	-	0.13	0.099	0.144
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 4	Reduced	641666	3624.99	15.03	16.70	1.469	-	-	-0.1	0.099	0.145
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 4	Reduced	641666	3624.99	15.07	16.70	1.455	-	-	-0.12	0.015	0.022
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 4	Reduced	641666	3624.99	15.03	16.70	1.469	-	-	0.04	0.011	0.016
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	Reduced	641666	3624.99	15.07	16.70	1.455	-	-	0.06	0.266	0.387
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 4	Reduced	641666	3624.99	15.03	16.70	1.469	-	-	0.12	0.297	0.436
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	Reduced	641666	3624.99	18.71	20.00	1.346	-	-	0.1	0.041	0.055
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 5	Reduced	641666	3624.99	18.66	20.00	1.361	-	-	-0.07	0.043	0.059
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	Reduced	641666	3624.99	18.71	20.00	1.346	-	-	0.17	0.652	0.878
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	Reduced	638000	3570	18.54	20.00	1.400	-	-	-0.08	0.617	0.864
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	Reduced	645332	3679.98	18.55	20.00	1.396	-	-	-0.14	0.621	0.867
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	Reduced	641666	3624.99	18.66	20.00	1.361	-	-	0.01	0.827	1.126
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	Reduced	638000	3570	18.41	20.00	1.442	-	-	-0.14	0.754	1.087
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	Reduced	645332	3679.98	18.65	20.00	1.365	-	-	0.1	0.791	1.079
	FR1 n48-NSA	40M	QPSK	50	28	DFT-30	Back	5mm	Ant5	Reduced	641666	3624.99	15.48	17.00	1.419	-	-	0.03	0.414	0.587
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 5	Reduced	641666	3624.99	18.63	20.00	1.371	-	-	0.17	0.664	0.910
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 5	Reduced	641666	3624.99	18.84	20.00	1.306	-	-	0.06	0.186	0.243
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 5	Reduced	641666	3624.99	18.83	20.00	1.309	-	-	-0.08	0.227	0.297
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	Reduced	641666	3624.99	18.84	20.00	1.306	-	-	-0.09	0.047	0.061
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 5	Reduced	641666	3624.99	18.83	20.00	1.309	-	-	-0.12	0.047	0.062
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 5	Reduced	641666	3624.99	18.84	20.00	1.306	-	-	-0.07	0.031	0.040
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 5	Reduced	641666	3624.99	18.83	20.00	1.309	-	-	0.03	0.013	0.017
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	Reduced	641666	3624.99	14.45	16.00	1.429	-	-	0.18	0.036	0.051
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 8	Reduced	641666	3624.99	14.33	16.00	1.469	-	-	-0.07	0.026	0.038
60	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	Reduced	641666	3624.99	14.45	16.00	1.429	-	-	0.01	0.838	1.197
	FR1 n48-NSA	40M	QPSK	1	1	DFT-30	Back	5mm	Ant8	Reduced	641666	3624.99	11.56	13.00	1.393	-	-	0.03	0.416	0.580
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	Sensor	638000	3570	14.33	16.00	1.469	-	-	0.04	0.754	1.108
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	Sensor	645332	3679.98	14.21	16.00	1.510	-	-	-0.02	0.777	1.173
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	Reduced	641666	3624.99	14.33	16.00	1.469	-	-	0.08	0.789	1.159
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	Sensor	638000	3570	14.17	16.00	1.524	-	-	0.15	0.697	1.062
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	Sensor	645332	3679.98	14.19	16.00	1.517	-	-	0.14	0.724	1.098
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 8	Reduced	641666	3624.99	14.29	16.00	1.483	-	-	0.1	0.703	1.042
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 8	Reduced	641666	3624.99	14.45	16.00	1.429	-	-	0.05	0.010	0.014
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	5mm	Ant 8	Reduced	641666	3624.99	14.33	16.00	1.469	-	-	0.02	0.011	0.016
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 8	Reduced	641666	3624.99	14.45	16.00	1.429	-	-	0.04	0.005	0.007
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Side	5mm	Ant 8	Reduced	641666	3624.99	14.33	16.00	1.469	-	-	-0.18	0.008	0.012
	FR1 n48	40M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	Reduced	641666	3624.99	14.45	16.00	1.429	-	-	-0.15	0.007	0.010
	FR1 n48	40M	QPSK	50	28	DFT-30	Top Side	5mm	Ant 8	Reduced	641666	3624.99	14.33	16.00	1.469	-	-	-0.02	0.009	0.013
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 3	Reduced	656000	3840	16.30	17.50	1.318	-	-	-0.16	0.359	0.473
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 3	Reduced	656000	3840	16.21	17.50	1.346	-	-	-0.07	0.385	0.518
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	Reduced	656000	3840	16.30	17.50	1.318	-	-	0.15	0.885	1.167
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 3	Reduced	656000	3840	16.21	17.50	1.346	-	-	-0.13	0.713	0.960
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 3	Reduced	656000	3840	16.17	17.50	1.358	-	-	-0.08	0.878	1.193
	FR1 n77Par270 HPUE-NSA	100M	QPSK	270	0	DFT-30	Back	5mm	Ant3	Reduced	656000	3840	12.98	14.50	1.419	-	-	0.05	0.419	0.595





**FCC SAR Test Report**

**Report No. : FA240834**

	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 3	Reduced	656000	3840	16.30	17.50	1.318	-	-	0.08	0.618	0.815
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 3	Reduced	656000	3840	16.21	17.50	1.346	-	-	-0.17	0.500	0.673
	FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Left Side	5mm	Ant 3	Reduced	656000	3840	16.17	17.50	1.358	-	-	-0.02	0.543	0.738
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 3	Reduced	656000	3840	16.30	17.50	1.318	-	-	-0.15	0.017	0.022
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 3	Reduced	656000	3840	16.21	17.50	1.346	-	-	0.07	0.026	0.035
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 3	Reduced	656000	3840	16.30	17.50	1.318	-	-	-0.15	0.187	0.247
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 3	Reduced	656000	3840	16.21	17.50	1.346	-	-	-0.13	0.204	0.275
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 3	Reduced	633334	3500.01	16.69	17.50	1.205	-	-	0.03	0.141	0.170
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 3	Reduced	633334	3500.01	16.50	17.50	1.259	-	-	-0.17	0.194	0.244
	FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 3	Reduced	633334	3500.01	16.45	17.50	1.274	-	-	-0.13	0.164	0.209
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	Reduced	633334	3500.01	16.69	17.50	1.205	-	-	-0.17	0.884	1.065
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 3	Reduced	633334	3500.01	16.50	17.50	1.259	-	-	-0.13	0.715	0.900
	FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 3	Reduced	633334	3500.01	16.45	17.50	1.274	-	-	-0.01	0.893	1.137
	FR1 n77Part27Q HPUE-NSA	100M	QPSK	270	0	DFT-30	Back	5mm	Ant3	Reduced	633334	3500.01	12.97	14.50	1.422	-	-	-0.02	0.421	0.599
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 3	Reduced	633334	3500.01	16.69	17.50	1.205	-	-	0.01	0.405	0.488
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 3	Reduced	633334	3500.01	16.50	17.50	1.259	-	-	0.17	0.424	0.534
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 3	Reduced	633334	3500.01	16.69	17.50	1.205	-	-	0.18	0.011	0.013
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 3	Reduced	633334	3500.01	16.50	17.50	1.259	-	-	-0.19	0.016	0.020
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 3	Reduced	633334	3500.01	16.69	17.50	1.205	-	-	-0.03	0.086	0.104
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 3	Reduced	633334	3500.01	16.50	17.50	1.259	-	-	0.04	0.107	0.135
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	Reduced	656000	3840	18.57	19.50	1.239	-	-	0.17	0.244	0.302
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	Reduced	656000	3840	18.52	19.50	1.253	-	-	-0.07	0.221	0.277
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	Reduced	656000	3840	18.57	19.50	1.239	-	-	-0.16	0.855	1.059
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	Reduced	656000	3840	18.52	19.50	1.253	-	-	0.04	0.768	0.962
	FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	Reduced	656000	3840	18.50	19.50	1.259	-	-	-0.02	0.938	1.181
	FR1 n77Par27O HPUE-NSA	100M	QPSK	270	0	DFT-30	Back	5mm	Ant4	Reduced	656000	3840	14.73	16.50	1.503	-	-	-0.02	0.398	0.598
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 4	Reduced	656000	3840	18.57	19.50	1.239	-	-	-0.01	0.131	0.162
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 4	Reduced	656000	3840	18.52	19.50	1.253	-	-	-0.07	0.161	0.202
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 4	Reduced	656000	3840	18.57	19.50	1.239	-	-	0.13	0.033	0.041
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 4	Reduced	656000	3840	18.52	19.50	1.253	-	-	-0.1	0.017	0.021
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	Reduced	656000	3840	18.57	19.50	1.239	-	-	-0.03	0.380	0.471
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 4	Reduced	656000	3840	18.52	19.50	1.253	-	-	-0.18	0.376	0.471
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	Reduced	633334	3500.01	18.75	19.50	1.189	-	-	0.08	0.124	0.147
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.17	0.134	0.161
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	Reduced	633334	3500.01	18.75	19.50	1.189	-	-	0.17	0.928	1.103
61	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.09	0.996	1.195
	FR1 n77Part27Q HPUE-NSA	100M	QPSK	135	69	DFT-30	Back	5mm	Ant4	Reduced	633334	3500.01	14.77	16.50	1.489	-	-	0.01	0.400	0.596
	FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	Reduced	633334	3500.01	18.68	19.50	1.208	-	-	0.1	0.721	0.871
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 4	Reduced	633334	3500.01	18.75	19.50	1.189	-	-	-0.12	0.092	0.109
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 4	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.18	0.084	0.101
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 4	Reduced	633334	3500.01	18.75	19.50	1.189	-	-	0.03	0.008	0.010
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 4	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.14	0.010	0.012
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 4	Reduced	633334	3500.01	18.75	19.50	1.189	-	-	-0.09	0.181	0.215
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 4	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	-0.03	0.215	0.258
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	Reduced	656000	3840	18.59	19.50	1.233	-	-	-0.03	0.031	0.038
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	Reduced	656000	3840	18.56	19.50	1.242	-	-	0.15	0.033	0.041
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	Reduced	656000	3840	18.59	19.50	1.233	-	-	-0.07	0.935	1.153
	FR1 n77Par27O HPUE-NSA	100M	QPSK	1	1	DFT-30	Back	5mm	Ant5	Reduced	656000	3840	14.59	16.00	1.384	-	-	0.01	0.418	0.578
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	Reduced	656000	3840	18.56	19.50	1.242	-	-	0.14	0.821	1.019
	FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 5	Reduced	656000	3840	18.33	19.50	1.309	-	-	-0.01	0.590	0.772
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 5	Reduced	656000	3840	18.59	19.50	1.233	-	-	-0.15	0.242	0.298
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 5	Reduced	656000	3840	18.56	19.50	1.242	-	-	-0.15	0.196	0.243
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	Reduced	656000	3840	18.59	19.50	1.233	-	-	-0.17	0.013	0.016
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 5	Reduced	656000	3840	18.56	19.50	1.242	-	-	0.06	0.010	0.012
	FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 5	Reduced	656000	3840	18.59	19.50	1.233	-	-	-0.15	0.019	0.023
	FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 5	Reduced	656000	3840	18.56	19.50	1.242	-	-	-0.04	0.016	0.020



**FCC SAR Test Report**

**Report No. : FA240834**

FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	Reduced	633334	3500.01	18.79	19.50	1.178	-	-	-0.05	0.036	0.042
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	-0.13	0.044	0.053
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	Reduced	633334	3500.01	18.79	19.50	1.178	-	-	0.03	0.982	1.156
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	-0.09	0.992	1.190
FR1 n77Part27Q HPUE-NSA	100M	QPSK	135	69	DFT-30	Back	5mm	Ant5	Reduced	633334	3500.01	14.46	16.00	1.426	-	-	0.07	0.119	0.170
FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 5	Reduced	633334	3500.01	18.57	19.50	1.239	-	-	0.17	0.860	1.065
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 5	Reduced	633334	3500.01	18.79	19.50	1.178	-	-	0.05	0.144	0.170
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 5	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.01	0.312	0.374
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 5	Reduced	633334	3500.01	18.79	19.50	1.178	-	-	0.03	0.032	0.038
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 5	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.12	0.058	0.070
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 5	Reduced	633334	3500.01	18.79	19.50	1.178	-	-	0.09	0.054	0.064
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 5	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	-0.17	0.044	0.053
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	Reduced	656000	3840	9.45	10.00	1.135	-	-	0.11	0.007	0.008
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	Reduced	656000	3840	9.34	10.00	1.164	-	-	0.07	0.006	0.007
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	Reduced	656000	3840	9.45	10.00	1.135	-	-	0.13	0.385	0.437
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	Reduced	656000	3840	9.34	10.00	1.164	-	-	-0.09	0.456	0.531
FR1 n77Par27O HPUE-NSA	100M	QPSK	135	69	DFT-30	Back	5mm	Ant8	Reduced	656000	3840	6.40	7.00	1.148	-	-	-0.06	0.217	0.249
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 8	Reduced	656000	3840	9.43	10.00	1.140	-	-	0.1	0.007	0.008
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 8	Reduced	656000	3840	9.34	10.00	1.164	-	-	-0.11	0.007	0.008
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 8	Reduced	656000	3840	9.43	10.00	1.140	-	-	0.11	0.006	0.007
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 8	Reduced	656000	3840	9.34	10.00	1.164	-	-	0.11	0.012	0.014
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	Reduced	656000	3840	9.43	10.00	1.140	-	-	-0.19	0.007	0.008
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 8	Reduced	656000	3840	9.34	10.00	1.164	-	-	-0.1	0.006	0.007
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	Reduced	633334	3500.01	9.43	10.00	1.140	-	-	0.11	0.009	0.010
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	Reduced	633334	3500.01	9.13	10.00	1.222	-	-	-0.02	0.010	0.012
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	Reduced	633334	3500.01	9.43	10.00	1.140	-	-	0.13	0.711	0.811
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	Reduced	633334	3500.01	9.13	10.00	1.222	-	-	-0.02	0.913	1.116
FR1 n77Part27Q HPUE-NSA	100M	QPSK	135	69	DFT-30	Back	5mm	Ant8	Reduced	633334	3500.01	6.18	7.00	1.208	-	-	-0.01	0.360	0.435
FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	Reduced	633334	3500.01	9.08	10.00	1.236	-	-	0.1	0.892	1.102
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	5mm	Ant 8	Reduced	633334	3500.01	9.43	10.00	1.140	-	-	0.04	0.007	0.008
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	5mm	Ant 8	Reduced	633334	3500.01	9.13	10.00	1.222	-	-	0.17	0.012	0.015
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Right Side	5mm	Ant 8	Reduced	633334	3500.01	9.43	10.00	1.140	-	-	-0.13	0.006	0.007
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Right Side	5mm	Ant 8	Reduced	633334	3500.01	9.13	10.00	1.222	-	-	0.12	0.009	0.011
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	5mm	Ant 8	Reduced	633334	3500.01	9.43	10.00	1.140	-	-	-0.14	0.008	0.009
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Top Side	5mm	Ant 8	Reduced	633334	3500.01	9.13	10.00	1.222	-	-	0.04	0.006	0.007



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)
<b>WLAN/Bluetooth</b>																
	WLAN 2.4GHz	802.11b 1Mbps	Front	5mm	Ant 2+9	Hotspot On	6	2437	17.42	19.00	1.439	99.52	1.005	0.02	0.195	0.282
	WLAN 2.4GHz	802.11b 1Mbps	Back	5mm	Ant 2+9	Hotspot On	6	2437	17.42	19.00	1.439	99.52	1.005	0.04	0.245	0.354
	WLAN 2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 2+9	Hotspot On	6	2437	17.42	19.00	1.439	99.52	1.005	0.04	0.010	0.014
	WLAN 2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 2+9	Hotspot On	6	2437	17.42	19.00	1.439	99.52	1.005	0.17	0.144	0.208
62	WLAN 2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 2+9	Hotspot On	6	2437	17.42	19.00	1.439	99.52	1.005	0.01	0.250	<b>0.361</b>
	Bluetooth	1Mbps	Front	5mm	Ant 2	Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	0.02	0.079	0.113
63	Bluetooth	1Mbps	Back	5mm	Ant 2	Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	-0.09	0.097	<b>0.138</b>
	Bluetooth	1Mbps	Left Side	5mm	Ant 2	Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	-0.03	0.011	0.016
	Bluetooth	1Mbps	Right Side	5mm	Ant 2	Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	0.01	0.021	0.029
	Bluetooth	1Mbps	Top Side	5mm	Ant 2	Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	0.01	0.085	0.121
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 2+9	Hotspot On	42	5210	10.95	12.50	1.429	89.19	1.121	-0.12	0.083	0.133
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 2+9	Hotspot On	42	5210	10.95	12.50	1.429	89.19	1.121	-0.16	0.087	0.139
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 2+9	Hotspot On	42	5210	10.95	12.50	1.429	89.19	1.121	0.09	0.007	0.011
64	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 2+9	Hotspot On	42	5210	10.95	12.50	1.429	89.19	1.121	-0.04	0.216	<b>0.346</b>
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 2+9	Hotspot On	42	5210	10.95	12.50	1.429	89.19	1.121	0.1	0.098	0.157
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 2+9	Hotspot On	155	5775	13.45	15.00	1.429	89.19	1.121	0.09	0.085	0.136
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 2+9	Hotspot On	155	5775	13.45	15.00	1.429	89.19	1.121	-0.05	0.165	0.264
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 2+9	Hotspot On	155	5775	13.45	15.00	1.429	89.19	1.121	-0.06	0.016	0.026
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 2+9	Hotspot On	155	5775	13.45	15.00	1.429	89.19	1.121	0.1	0.159	0.255
65	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 2+9	Hotspot On	155	5775	13.45	15.00	1.429	89.19	1.121	-0.09	0.190	<b>0.304</b>



15.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	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)
<b>750MHz</b>																			
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	Full Power	23095	707.5	22.90	24.00	1.288	0.02	0.507	0.653
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	Full Power	23095	707.5	21.96	23.00	1.271	-0.1	0.390	0.496
66	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	Full Power	23095	707.5	22.90	24.00	1.288	-0.03	0.658	<b>0.848</b>
	LTE Band 12-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant0	-	Reduced	23095	707.5	21.44	22.50	1.276	0.05	0.447	0.571
	LTE Band 12-ENDC	10M	QPSK	1	0	-	Back	20mm	Ant 0	-	Full Power	23095	707.5	22.90	24.00	1.288	-0.1	0.116	0.149
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	Full Power	23095	707.5	21.96	23.00	1.271	-0.18	0.548	0.696
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	Full Power	23095	707.5	21.89	23.00	1.291	-0.07	0.538	0.695
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	Full Power	23095	707.5	23.36	24.00	1.159	0.15	0.464	0.538
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	Full Power	23095	707.5	22.36	23.00	1.159	0.11	0.355	0.411
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	Full Power	23095	707.5	23.36	24.00	1.159	-0.03	0.620	0.718
	LTE Band 12-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	23095	707.5	21.97	22.50	1.130	-0.01	0.399	0.451
	LTE Band 12-ENDC	10M	QPSK	1	0	-	Back	20mm	Ant 1	-	Full Power	23095	707.5	23.36	24.00	1.159	0.11	0.235	0.272
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	Full Power	23095	707.5	22.36	23.00	1.159	0.07	0.461	0.534
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	Full Power	141500	707.5	22.87	24.00	1.297	0.08	0.112	0.145
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	-	Full Power	141500	707.5	22.62	24.00	1.374	0.07	0.170	0.234
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	Full Power	141500	707.5	22.87	24.00	1.297	0.02	0.335	0.435
67	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	-	Full Power	141500	707.5	22.62	24.00	1.374	-0.07	0.396	<b>0.544</b>
	FR1 n12	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	Full Power	141500	707.5	22.95	24.00	1.274	0.1	0.167	0.213
	FR1 n12	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	-	Full Power	141500	707.5	22.92	24.00	1.282	-0.01	0.296	0.380
	FR1 n12	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	Full Power	141500	707.5	22.95	24.00	1.274	0.1	0.264	0.336
	FR1 n12	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	-	Full Power	141500	707.5	22.92	24.00	1.282	-0.03	0.405	0.519
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	Full Power	23230	782	22.53	24.00	1.403	-0.01	0.387	0.543
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	Full Power	23230	782	21.55	23.00	1.396	-0.16	0.412	0.575
68	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	Full Power	23230	782	22.53	24.00	1.403	-0.03	0.609	<b>0.854</b>
	LTE Band 13-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant0	-	Reduced	23230	782	20.99	22.50	1.416	-0.09	0.397	0.562
	LTE Band 13-ENDC	10M	QPSK	1	0	-	Back	20mm	Ant 0	-	Full Power	23230	782	22.53	24.00	1.403	0.1	0.108	0.152
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	Full Power	23230	782	21.55	23.00	1.396	0.11	0.546	0.762
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	Full Power	23230	782	21.42	23.00	1.439	-0.03	0.561	0.807
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	Full Power	23230	782	23.04	24.00	1.247	0.14	0.434	0.541
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	Full Power	23230	782	21.88	23.00	1.294	-0.13	0.334	0.432
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	Full Power	23230	782	23.04	24.00	1.247	-0.01	0.608	0.758
	LTE Band 13-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	23230	782	21.66	22.50	1.213	0.13	0.418	0.507
	LTE Band 13-ENDC	10M	QPSK	1	0	-	Back	20mm	Ant 1	-	Full Power	23230	782	23.04	24.00	1.247	-0.01	0.228	0.284
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	Full Power	23230	782	21.88	23.00	1.294	-0.07	0.398	0.515
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	Full Power	23330	793	22.77	24.00	1.327	-0.06	0.598	0.794
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	Full Power	23330	793	21.70	23.00	1.349	0.01	0.466	0.629
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	Full Power	23330	793	22.77	24.00	1.327	-0.03	0.661	0.877
	LTE Band 14-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant0	-	Reduced	23330	793	21.24	22.50	1.337	0.08	0.396	0.529
	LTE Band 14-ENDC	10M	QPSK	1	0	-	Back	20mm	Ant 0	-	Full Power	23330	793	22.77	24.00	1.327	-0.13	0.241	0.320
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	Full Power	23330	793	21.70	23.00	1.349	-0.04	0.593	0.800
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	Full Power	23330	793	21.69	23.00	1.352	-0.07	0.648	0.876
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	Full Power	23330	793	22.85	24.00	1.303	0.02	0.546	0.712
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	Full Power	23330	793	21.79	23.00	1.321	-0.04	0.428	0.566
69	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	Full Power	23330	793	22.85	24.00	1.303	-0.09	0.709	<b>0.924</b>
	LTE Band 14-ENDC	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	23330	793	21.43	22.50	1.279	0.1	0.449	0.574
	LTE Band 14-ENDC	10M	QPSK	1	0	-	Back	20mm	Ant 1	-	Full Power	23330	793	22.85	24.00	1.303	0.01	0.129	0.168
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	Full Power	23330	793	21.79	23.00	1.321	-0.17	0.487	0.643
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	Full Power	23330	793	21.76	23.00	1.330	-0.05	0.669	0.890
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	Full Power	158600	793	22.95	24.00	1.274	-0.15	0.399	0.508
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 0	-	Full Power	158600	793	22.79	24.00	1.321	-0.15	0.331	0.437



**FCC SAR Test Report**

**Report No. : FA240834**

	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	Full Power	158600	793	22.95	24.00	1.274	-0.13	0.530	0.675
70	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 0	-	Full Power	158600	793	22.79	24.00	1.321	-0.06	0.538	<b>0.711</b>
	FR1 n14	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	Full Power	158600	793	23.64	24.00	1.086	-0.05	0.356	0.387
	FR1 n14	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 1	-	Full Power	158600	793	23.51	24.00	1.119	-0.05	0.315	0.353
	FR1 n14	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	Full Power	158600	793	23.64	24.00	1.086	-0.06	0.414	0.450
	FR1 n14	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 1	-	Full Power	158600	793	23.51	24.00	1.119	0.19	0.359	0.402
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	Full Power	133322	683	22.36	24.00	1.459	0.08	0.220	0.321
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	Full Power	133322	683	21.41	23.00	1.442	0.18	0.232	0.335
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	Full Power	133322	683	22.36	24.00	1.459	-0.03	0.317	0.462
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	Full Power	133322	683	21.41	23.00	1.442	-0.1	0.260	0.375
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	Full Power	133322	683	22.63	24.00	1.371	-0.19	0.339	0.465
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	Full Power	133322	683	21.65	23.00	1.365	0.04	0.262	0.358
71	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	Full Power	133322	683	22.63	24.00	1.371	-0.09	0.437	<b>0.599</b>
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	Full Power	133322	683	21.65	23.00	1.365	0.11	0.366	0.499
	FR1 n71	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	Full Power	136100	680.5	23.01	24.00	1.256	0.04	0.170	0.214
	FR1 n71	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	Full Power	136100	680.5	22.93	24.00	1.279	-0.04	0.219	0.280
	FR1 n71	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	Full Power	136100	680.5	23.01	24.00	1.256	0.06	0.289	0.363
	FR1 n71	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	Full Power	136100	680.5	22.93	24.00	1.279	0.05	0.335	0.429
	FR1 n71	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	Full Power	136100	680.5	23.11	24.00	1.227	-0.11	0.270	0.331
	FR1 n71	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	-	Full Power	136100	680.5	23.03	24.00	1.250	0.12	0.265	0.331
	FR1 n71	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	Full Power	136100	680.5	23.11	24.00	1.227	0.07	0.429	0.527
72	FR1 n71	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	-	Full Power	136100	680.5	23.03	24.00	1.250	-0.08	0.429	<b>0.536</b>



**FCC SAR Test Report**

Report No. : FA240834

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	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)
<b>835MHz</b>																			
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	Reduced	189	836.4	27.55	28.50	1.245	0.17	0.706	0.879
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	Reduced	128	824.2	27.53	28.50	1.250	0.18	0.656	0.820
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	Reduced	251	848.8	27.46	28.50	1.271	-0.03	0.825	1.048
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	Reduced	189	836.4	27.55	28.50	1.245	0.15	0.990	1.232
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	Reduced	128	824.2	27.53	28.50	1.250	-0.13	0.885	1.106
73	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	Reduced	251	848.8	27.46	28.50	1.271	-0.07	1.050	<b>1.334</b>
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Headset	Reduced	251	848.8	27.46	28.50	1.271	-0.03	0.986	1.253
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	16mm	Ant 0	-	Full Power	251	848.8	28.80	30.00	1.318	0.01	0.245	0.323
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	20mm	Ant 0	-	Full Power	251	848.8	28.80	30.00	1.318	0.13	0.256	0.337
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	Full Power	4182	836.4	23.41	24.00	1.146	0.18	0.502	0.575
74	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	Full Power	4182	836.4	23.41	24.00	1.146	-0.05	0.672	<b>0.770</b>
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	Full Power	26865	831.5	23.16	24.00	1.213	0.07	0.571	0.693
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	Full Power	26865	831.5	22.23	23.00	1.194	0.15	0.420	0.501
75	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	Full Power	26865	831.5	23.16	24.00	1.213	-0.07	0.658	<b>0.798</b>
	LTE Band 26 -ENDC	15M	QPSK	1	0	-	Back	5mm	Ant0	-	Reduced	26865	831.5	21.63	22.50	1.222	0.09	0.443	0.541
	LTE Band 26 -ENDC	15M	QPSK	1	0	-	Back	20mm	Ant 0	-	Full Power	26865	831.5	23.16	24.00	1.213	-0.09	0.095	0.115
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 0	-	Full Power	20525+20624	836.5+846.4	22.78	24.00	1.324	0.04	0.559	0.740
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	Full Power	26865	831.5	22.23	23.00	1.194	0.17	0.597	0.713
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	-	Full Power	26865	831.5	23.02	24.00	1.253	-0.11	0.534	0.669
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	-	Full Power	26865	831.5	22.06	23.00	1.242	0.03	0.417	0.518
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	Full Power	26865	831.5	23.02	24.00	1.253	-0.08	0.536	0.672
	LTE Band 26 -ENDC	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	26865	831.5	22.13	23.00	1.222	0.07	0.395	0.483
	LTE Band 26 -ENDC	15M	QPSK	1	0	-	Back	20mm	Ant 1	-	Full Power	26865	831.5	23.02	24.00	1.253	0.15	0.095	0.119
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 1	-	Full Power	20525+20624	836.5+846.4	22.56	24.00	1.393	-0.07	0.467	0.651
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	Full Power	26865	831.5	22.06	23.00	1.242	0.18	0.422	0.524
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	Full Power	166300	831.5	22.88	24.00	1.294	-0.03	0.402	0.520
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 0	-	Full Power	166300	831.5	22.76	24.00	1.330	-0.15	0.391	0.520
	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	Full Power	166300	831.5	22.88	24.00	1.294	0.06	0.508	0.657
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 0	-	Full Power	166300	831.5	22.76	24.00	1.330	-0.01	0.512	0.681
	FR1 n26 -NSA	20M	QPSK	50	28	DFT-15	Back	5mm	Ant0	-	Reduced	166300	831.5	21.68	23.00	1.355	0.01	0.420	0.569
	FR1 n26 -NSA	20M	QPSK	50	28	DFT-15	Back	20mm	Ant 0	-	Full Power	166300	831.5	22.76	24.00	1.330	-0.07	0.085	0.113
	FR1 n26	20M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	Full Power	166300	831.5	22.55	24.00	1.396	-0.1	0.524	0.732
	FR1 n26	20M	QPSK	50	28	DFT-15	Front	5mm	Ant 1	-	Full Power	166300	831.5	22.46	24.00	1.426	0.14	0.496	0.707
76	FR1 n26	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	Full Power	166300	831.5	22.55	24.00	1.396	-0.05	0.584	<b>0.815</b>
	FR1 n26 -NSA	20M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	Reduced	166300	831.5	21.32	22.50	1.312	-0.08	0.427	0.560
	FR1 n26 -NSA	20M	QPSK	1	1	DFT-15	Back	20mm	Ant 1	-	Full Power	166300	831.5	22.55	24.00	1.396	0.03	0.100	0.140
	FR1 n26	20M	QPSK	50	28	DFT-15	Back	5mm	Ant 1	-	Full Power	166300	831.5	22.46	24.00	1.426	0.02	0.561	0.800
	FR1 n26	20M	QPSK	100	0	DFT-15	Back	5mm	Ant 1	-	Full Power	166300	831.5	21.53	23.00	1.403	0.05	0.528	0.741
<b>1750MHz</b>																			
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	Reduced	1413	1732.6	17.13	18.00	1.222	-0.14	0.840	1.026
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	Reduced	1312	1712.4	17.01	18.00	1.256	0.14	0.589	0.740
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	Reduced	1513	1752.6	17.12	18.00	1.225	0.17	0.505	0.618
77	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	Reduced	1413	1732.6	17.13	18.00	1.222	0.04	1.170	<b>1.430</b>
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	Reduced	1413	1732.6	17.13	18.00	1.222	-0.11	1.045	1.277
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	Reduced	1312	1712.4	17.01	18.00	1.256	-0.1	0.939	1.179
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	Reduced	1513	1752.6	17.12	18.00	1.225	0.03	0.863	1.057
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 0	-	Full Power	1413	1732.6	23.28	24.00	1.180	0.02	0.518	0.611
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 0	-	Full Power	1413	1732.6	23.28	24.00	1.180	0.06	0.546	0.644
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	Reduced	132322	1745	17.23	18.00	1.194	0.06	0.717	0.856

Sporton International Inc. (Kunshan)

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FCC ID : IHDT56AE7

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**FCC SAR Test Report**

**Report No. : FA240834**

	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	Reduced	132072	1720	17.00	18.00	1.259	0.04	0.765	0.963
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	Reduced	132572	1770	17.06	18.00	1.242	-0.09	0.715	0.888
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	Reduced	132322	1745	16.23	17.00	1.194	-0.04	0.685	0.818
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	Reduced	132072	1720	16.04	17.00	1.247	-0.09	0.645	0.805
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	Reduced	132572	1770	15.95	17.00	1.274	0.14	0.595	0.758
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	Reduced	132322	1745	16.10	17.00	1.230	-0.01	0.592	0.728
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	Reduced	132322	1745	17.23	18.00	1.194	-0.14	1.120	1.337
78	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	Reduced	132072	1720	17.00	18.00	1.259	0.09	1.120	1.410
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	Reduced	132072	1720	17.00	18.00	1.259	0.06	1.010	1.272
	LTE Band 66 -ENDC	20M	QPSK	1	0	-	Back	5mm	Ant0	-	Reduced	132072	1720	12.98	14.00	1.265	0.09	0.460	0.582
	LTE Band 66C	20M	QPSK	1	99	-	Back	5mm	Ant 0	-	Reduced	132072+132270	1720+1739.8	16.97	18.00	1.268	0.09	1.090	1.382
	LTE Band 66C	20M	QPSK	1	99	-	Back	5mm	Ant 0	-	Reduced	132322+132520	1745+1764.8	17.18	18.00	1.208	-0.1	0.982	1.186
	LTE Band 66C	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	Reduced	132572+132374	1770+1750.2	16.97	18.00	1.268	-0.09	1.010	1.280
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	Reduced	132572	1770	17.06	18.00	1.242	0.12	1.060	1.316
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	Reduced	132322	1745	16.23	17.00	1.194	-0.04	0.960	1.146
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	Reduced	132072	1720	16.04	17.00	1.247	-0.11	0.955	1.191
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	Reduced	132572	1745	15.95	17.00	1.274	-0.15	0.923	1.175
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	Reduced	132322	1745	16.10	17.00	1.230	-0.16	0.915	1.126
	LTE Band 66	20M	QPSK	1	0	-	Front	16mm	Ant 0	-	Full Power	132072	1720	22.94	24.00	1.276	0.05	0.451	0.576
	LTE Band 66	20M	QPSK	1	0	-	Back	20mm	Ant 0	-	Full Power	132072	1720	22.94	24.00	1.276	-0.07	0.454	0.580
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	Reduced	132322	1745	16.74	17.50	1.191	0.13	0.609	0.725
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	Reduced	132322	1745	15.71	16.50	1.199	0.16	0.473	0.567
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	132322	1745	16.74	17.50	1.191	-0.03	0.808	0.963
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	132072	1720	16.51	17.50	1.256	0.06	0.653	0.820
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	132572	1770	16.49	17.50	1.262	0.07	0.926	1.168
	LTE Band 66 -ENDC	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	132572	1770	13.96	14.50	1.132	0.02	0.442	0.501
	LTE Band 66C	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	132572+132374	1770+1750.2	16.32	17.50	1.312	-0.11	0.857	1.125
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	Reduced	132322	1745	15.71	16.50	1.199	0.18	0.629	0.754
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	Reduced	132322	1745	15.60	16.50	1.230	0.14	0.620	0.763
	LTE Band 66	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	Full Power	132322	1745	22.04	23.00	1.247	0.06	0.290	0.362
	LTE Band 66	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	Full Power	132572	1770	21.80	23.00	1.318	0.09	0.358	0.472
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	Reduced	349000	1745	18.39	19.00	1.151	-0.1	0.632	0.727
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	Reduced	349000	1745	18.34	19.00	1.164	0.18	0.757	0.881
	FR1 n66	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 0	-	Reduced	349000	1745	18.27	19.00	1.183	-0.02	0.615	0.728
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	Reduced	349000	1745	18.39	19.00	1.151	-0.05	1.020	1.174
79	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	Reduced	349000	1745	18.34	19.00	1.164	-0.01	1.060	1.234
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	Headset	Reduced	349000	1745	18.34	19.00	1.164	-0.05	0.985	1.147
	FR1 n66 -NSA	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	Reduced	349000	1745	13.45	14.00	1.135	0.11	0.469	0.532
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	-	Reduced	349000	1745	18.27	19.00	1.183	-0.14	0.913	1.080
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	16mm	Ant 0	-	Full Power	349000	1745	24.06	24.50	1.107	0.04	0.110	0.122
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	20mm	Ant 0	-	Full Power	349000	1745	24.06	24.50	1.107	-0.09	0.105	0.116
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	Reduced	349000	1745	19.69	20.00	1.074	-0.14	0.599	0.643
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	-	Reduced	349000	1745	19.67	20.00	1.079	0.07	0.624	0.673
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	Reduced	349000	1745	19.69	20.00	1.074	-0.08	0.799	0.858
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	-	Reduced	349000	1745	19.67	20.00	1.079	0.01	0.966	1.042
	FR1 n66 -NSA	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	-	Reduced	349000	1745	16.10	17.00	1.230	0.01	0.484	0.595
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 1	-	Reduced	349000	1745	19.63	20.00	1.089	0.01	0.701	0.763
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	16mm	Ant 1	-	Full Power	349000	1745	22.92	24.00	1.282	0.06	0.227	0.291
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	20mm	Ant 1	-	Full Power	349000	1745	22.92	24.00	1.282	0.08	0.262	0.336
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	Reduced	340500	1702.5	18.46	19.00	1.132	0.09	0.705	0.798
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 0	-	Reduced	340500	1702.5	18.39	19.00	1.151	-0.05	0.766	0.882
	FR1 n70	15M	QPSK	75	0	DFT-15	Front	5mm	Ant 0	-	Reduced	340500	1702.5	18.32	19.00	1.169	-0.02	0.603	0.705
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	Reduced	340500	1702.5	18.46	19.00	1.132	-0.19	0.902	1.021

**Sporton International Inc. (Kunshan)**

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FCC ID : IHDT56AE7

Issued Date : Jul. 14, 2022

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**FCC SAR Test Report**

**Report No. : FA240834**

80	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	-	Reduced	340500	1702.5	18.39	19.00	1.151	0.03	0.950	<b>1.093</b>
	FR1 n70 -NSA	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 0	-	Reduced	340500	1702.5	16.43	17.50	1.279	0.08	0.404	0.517
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 0	-	Reduced	340500	1702.5	18.32	19.00	1.169	-0.17	0.841	0.984
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	16mm	Ant 0	-	Full Power	340500	1702.5	23.46	24.00	1.132	0.02	0.093	0.105
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	20mm	Ant 0	-	Full Power	340500	1702.5	23.46	24.00	1.132	-0.09	0.099	0.112
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	Reduced	340500	1702.5	19.63	20.50	1.222	-0.03	0.555	0.678
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	5mm	Ant 1	-	Reduced	340500	1702.5	19.56	20.50	1.242	0.17	0.612	0.760
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	Reduced	340500	1702.5	19.63	20.50	1.222	0.07	0.788	0.963
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	-	Reduced	340500	1702.5	19.56	20.50	1.242	-0.02	0.845	1.049
	FR1 n70 -NSA	15M	QPSK	36	22	DFT-15	Back	5mm	Ant 1	-	Reduced	340500	1702.5	16.43	17.50	1.279	0.14	0.468	0.599
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	5mm	Ant 1	-	Reduced	340500	1702.5	19.52	20.50	1.253	0.13	0.717	0.899
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	16mm	Ant 1	-	Full Power	340500	1702.5	22.66	24.00	1.361	0.04	0.049	0.067
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	20mm	Ant 1	-	Full Power	340500	1702.5	22.66	24.00	1.361	-0.08	0.055	0.075

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	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)
<b>1900MHz</b>																			
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	Reduced	661	1880	19.25	20.00	1.189	0.07	0.710	0.844
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	Reduced	512	1850.2	19.19	20.00	1.205	0.03	0.550	0.663
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	Reduced	810	1909.8	19.17	20.00	1.211	-0.18	0.676	0.818
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	Reduced	661	1880	19.25	20.00	1.189	0.04	0.976	1.160
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	Reduced	512	1850.2	19.19	20.00	1.205	-0.06	0.852	1.027
81	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	Reduced	810	1909.8	19.17	20.00	1.211	0.03	1.100	<b>1.332</b>
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Headset	Reduced	810	1909.8	19.17	20.00	1.211	0.01	1.024	1.240
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	16mm	Ant 0	-	Full Power	661	1880	25.57	26.50	1.239	0.06	0.482	0.597
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	20mm	Ant 0	-	Full Power	810	1909.8	25.51	26.50	1.256	0.04	0.536	0.673
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	Reduced	9400	1880	16.23	17.00	1.194	-0.09	0.776	0.927
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	Reduced	9262	1852.4	15.99	17.00	1.262	0.09	0.625	0.789
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	Reduced	9538	1907.6	16.06	17.00	1.242	0.16	0.569	0.707
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	Reduced	9400	1880	16.23	17.00	1.194	0.18	1.130	1.349
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	Reduced	9262	1852.4	15.99	17.00	1.262	-0.1	1.010	1.274
82	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	Reduced	9538	1907.6	16.06	17.00	1.242	0.01	1.130	<b>1.403</b>
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	Reduced	9538	1907.6	16.06	17.00	1.242	-0.05	1.084	1.346
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	16mm	Ant 0	-	Full Power	9400	1880	23.37	24.00	1.156	0.09	0.682	0.788
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 0	-	Full Power	9538	1907.6	23.24	24.00	1.191	0.01	0.735	0.876
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	Reduced	26340	1880	15.99	17.00	1.262	-0.11	0.718	0.906
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	Reduced	26140	1860	15.87	17.00	1.297	-0.16	0.716	0.929
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	Reduced	26590	1905	15.95	17.00	1.274	0.02	0.727	0.926
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	Reduced	26340	1880	15.04	16.00	1.247	0.1	0.609	0.760
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	Reduced	26340	1880	14.94	16.00	1.276	-0.12	0.596	0.761
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	Reduced	26340	1880	15.99	17.00	1.262	0.01	1.050	1.325
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	Reduced	26140	1860	15.87	17.00	1.297	0.12	1.030	1.336
83	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	Reduced	26590	1905	15.95	17.00	1.274	0.03	1.120	<b>1.426</b>
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	Reduced	26590	1905	15.95	17.00	1.274	-0.01	1.095	1.394
	LTE Band 25 -ENDC	20M	QPSK	1	0	-	Back	5mm	Ant0	-	Reduced	26590	1905	11.87	13.00	1.297	-0.09	0.398	0.516
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	Reduced	26340	1880	15.04	16.00	1.247	-0.15	0.908	1.133
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	Reduced	26140	1860	14.83	16.00	1.309	-0.14	0.839	1.098
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	Reduced	26590	1905	14.86	16.00	1.300	0.07	0.926	1.204
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	Reduced	26340	1880	14.94	16.00	1.276	-0.07	0.890	1.136
	LTE Band 25	20M	QPSK	1	0	-	Front	16mm	Ant 0	-	Full Power	26140	1860	22.85	24.00	1.303	0.09	0.379	0.494
	LTE Band 25	20M	QPSK	1	0	-	Back	20mm	Ant 0	-	Full Power	26590	1905	22.84	24.00	1.306	-0.11	0.388	0.507



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	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	Reduced	26340	1880	17.07	18.50	1.390	0.07	0.543	0.755
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	Reduced	26340	1880	16.17	17.50	1.358	0.05	0.427	0.580
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	26340	1880	17.07	18.50	1.390	-0.17	0.652	0.906
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	26140	1860	16.93	18.50	1.435	0.06	0.741	1.064
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	26590	1905	16.85	18.50	1.462	0.07	0.820	1.199
	LTE Band 25 -ENDC	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	Reduced	26590	1905	13.87	15.50	1.455	0.09	0.381	0.555
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	Reduced	26340	1880	16.17	17.50	1.358	-0.03	0.513	0.697
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	Reduced	26340	1880	16.06	17.50	1.393	-0.04	0.644	0.897
	LTE Band 25	20M	QPSK	1	0	-	Front	16mm	Ant 1	-	Full Power	26340	1880	22.52	24.00	1.406	0.09	0.215	0.302
	LTE Band 25	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	Full Power	26590	1905	22.32	24.00	1.472	-0.04	0.229	0.337
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	Reduced	376500	1882.5	17.29	18.00	1.178	0.12	0.601	0.708
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	Reduced	376500	1882.5	17.26	18.00	1.186	0.19	0.852	1.010
	FR1 n25	40M	QPSK	216	0	DFT-15	Front	5mm	Ant 0	-	Reduced	376500	1882.5	17.25	18.00	1.189	0.03	0.667	0.793
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	Reduced	376500	1882.5	17.29	18.00	1.178	-0.1	0.923	1.087
84	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	Reduced	376500	1882.5	17.26	18.00	1.186	-0.09	1.170	1.387
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	Headset	Reduced	376500	1882.5	17.26	18.00	1.186	-0.06	1.031	1.223
	FR1 n25 -NSA	40M	QPSK	108	54	DFT-15	Back	5mm	Ant0	-	Reduced	376500	1882.5	13.72	14.00	1.067	0.18	0.536	0.572
	FR1 n25	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	-	Reduced	376500	1882.5	17.25	18.00	1.189	0.02	0.919	1.092
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	16mm	Ant 0	-	Full Power	376500	1882.5	23.43	24.00	1.140	0.06	0.328	0.374
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	20mm	Ant 0	-	Full Power	376500	1882.5	23.43	24.00	1.140	-0.07	0.330	0.376
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 1	-	Reduced	376500	1882.5	16.79	17.50	1.178	-0.08	0.500	0.589
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 1	-	Reduced	376500	1882.5	16.76	17.50	1.186	0.14	0.466	0.553
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	Reduced	376500	1882.5	16.79	17.50	1.178	-0.12	0.817	0.962
	FR1 n25 -NSA	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 1	-	Reduced	376500	1882.5	13.75	14.50	1.189	0.05	0.429	0.510
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 1	-	Reduced	376500	1882.5	16.76	17.50	1.186	-0.01	0.805	0.955
	FR1 n25	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 1	-	Reduced	376500	1882.5	16.65	17.50	1.216	0.13	0.634	0.771
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	16mm	Ant 1	-	Full Power	376500	1882.5	23.05	24.00	1.245	0.03	0.221	0.275
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	20mm	Ant 1	-	Full Power	376500	1882.5	23.05	24.00	1.245	-0.08	0.269	0.335
<b>2300MHz</b>																			
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 6		Reduced	27710	2310	19.99	21.00	1.262	0.07	0.853	1.076
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 6		Reduced	27710	2310	19.95	21.00	1.274	0.18	0.783	0.997
	LTE Band 30	10M	QPSK	50	0	-	Front	5mm	Ant 6		Reduced	27710	2310	19.90	21.00	1.288	-0.15	0.797	1.027
85	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 6		Reduced	27710	2310	19.99	21.00	1.262	0.07	0.954	1.204
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 6	Headset	Reduced	27710	2310	19.99	21.00	1.262	-0.06	0.927	1.170
	LTE Band 30 -ENDC	10M	QPSK	1	0	-	Back	5mm	Ant6		Reduced	27710	2310	16.33	17.00	1.167	-0.06	0.430	0.502
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 6		Reduced	27710	2310	19.95	21.00	1.274	-0.04	0.922	1.174
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 6		Reduced	27710	2310	19.90	21.00	1.288	-0.09	0.912	1.175
	LTE Band 30	10M	QPSK	1	0	-	Front	16mm	Ant 6	-	Full Power	27710	2310	23.19	24.00	1.205	0.05	0.229	0.276
	LTE Band 30	10M	QPSK	1	0	-	Back	20mm	Ant 6	-	Full Power	27710	2310	23.19	24.00	1.205	-0.08	0.158	0.190
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	5mm	Ant 6	-	Reduced	462000	2310	21.65	22.00	1.084	-0.07	0.706	0.765
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	5mm	Ant 6	-	Reduced	462000	2310	21.56	22.00	1.107	-0.07	0.768	0.850
	FR1 n30	10M	QPSK	50	0	DFT-15	Front	5mm	Ant 6	-	Reduced	462000	2310	21.51	22.00	1.119	-0.09	0.620	0.694
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	5mm	Ant 6	-	Reduced	462000	2310	21.65	22.00	1.084	-0.03	0.982	1.064
86	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 6	-	Reduced	462000	2310	21.56	22.00	1.107	0.02	1.050	1.162
	FR1 n30 -NSA	10M	QPSK	25	14	DFT-15	Back	5mm	Ant6	-	Reduced	462000	2310	17.98	18.50	1.127	-0.11	0.440	0.496
	FR1 n30	10M	QPSK	50	0	DFT-15	Back	5mm	Ant 6	-	Reduced	462000	2310	21.51	22.00	1.119	0.16	0.884	0.990
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	16mm	Ant 6	-	Full Power	462000	2310	23.63	24.00	1.089	0.11	0.246	0.268
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	20mm	Ant 6	-	Full Power	462000	2310	23.63	24.00	1.089	0.13	0.177	0.193



**FCC SAR Test Report**

**Report No. : FA240834**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	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)
<b>2600MHz</b>																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 6	-	Reduced	21100	2535	19.46	20.50	1.271	-	-	0.03	0.206	0.262
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 6	-	Reduced	21100	2535	18.30	19.50	1.318	-	-	-0.04	0.598	0.788
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 6	-	Reduced	21100	2535	19.46	20.50	1.271	-	-	-0.1	1.010	1.283
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 6	-	Reduced	20850	2510	19.31	20.50	1.315	-	-	0.12	0.728	0.957
87	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 6	-	Reduced	21350	2560	19.38	20.50	1.294	-	-	0.09	1.110	<b>1.437</b>
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 6	Headset	Reduced	21350	2560	19.38	20.50	1.294	-	-	0.03	0.997	1.290
	LTE Band 7 -ENDC	20M	QPSK	1	0	-	Back	5mm	Ant6	-	Reduced	21350	2560	15.30	16.50	1.318	-	-	-0.03	0.384	0.506
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 6	-	Reduced	21100	2535	18.30	19.50	1.318	-	-	0.06	0.814	1.073
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 6	-	Reduced	20850	2510	18.16	19.50	1.361	-	-	-0.17	0.768	1.046
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 6	-	Reduced	21350	2560	18.23	19.50	1.340	-	-	0.16	0.909	1.218
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 6	-	Reduced	21100	2535	18.28	19.50	1.324	-	-	0.14	0.794	1.052
	LTE Band 7	20M	QPSK	50	0	-	Front	16mm	Ant 6	-	Full Power	21100	2535	21.78	23.00	1.324	-	-	0.04	0.319	0.422
	LTE Band 7	20M	QPSK	1	0	-	Back	20mm	Ant 6	-	Full Power	21350	2560	22.78	24.00	1.324	-	-	0.06	0.201	0.266
	FR1 n7-NSA	50M	QPSK	1	1	DFT-15	Front	5mm	Ant8	-	Reduced	507000	2535	17.53	18.50	1.250	-	-	0.03	0.027	0.034
	FR1 n7-NSA	50M	QPSK	135	68	DFT-15	Front	5mm	Ant8	-	Reduced	507000	2535	17.49	18.50	1.262	-	-	0.05	0.030	0.038
88	FR1 n7-NSA	50M	QPSK	1	1	DFT-15	Back	5mm	Ant8	-	Reduced	507000	2535	17.53	18.50	1.250	-	-	0.09	0.413	<b>0.516</b>
	FR1 n7-NSA	50M	QPSK	135	68	DFT-15	Back	5mm	Ant8	-	Reduced	507000	2535	17.49	18.50	1.262	-	-	0.15	0.340	0.429
	FR1 n7-NSA	50M	QPSK	270	0	DFT-15	Back	5mm	Ant8	-	Reduced	507000	2535	17.43	18.50	1.279	-	-	0.06	0.257	0.329
	FR1 n7-NSA	50M	QPSK	135	68	DFT-15	Front	16mm	Ant8	-	Full Power	507000	2535	22.88	24.00	1.294	-	-	0.09	0.010	0.013
	FR1 n7-NSA	50M	QPSK	1	1	DFT-15	Back	20mm	Ant8	-	Full Power	507000	2535	23.04	24.00	1.247	-	-	0.06	0.114	0.142
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 6		Reduced	40620	2593	20.73	21.50	1.194	62.9	1.006	0.1	0.789	0.948
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 6		Reduced	39750	2506	20.60	21.50	1.230	62.9	1.006	0.02	0.561	0.694
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 6		Reduced	40185	2549.5	20.59	21.50	1.233	62.9	1.006	-0.06	0.580	0.719
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 6		Reduced	41055	2636.5	20.41	21.50	1.285	62.9	1.006	0.11	0.553	0.715
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 6		Reduced	41490	2680	20.51	21.50	1.256	62.9	1.006	0.03	0.722	0.912
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 6		Reduced	40620	2593	20.66	21.50	1.213	62.9	1.006	0.13	0.789	0.963
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 6		Reduced	39750	2506	20.49	21.50	1.262	62.9	1.006	0.06	0.584	0.741
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 6		Reduced	40185	2549.5	20.58	21.50	1.236	62.9	1.006	-0.13	0.687	0.854
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 6		Reduced	41055	2636.5	20.27	21.50	1.327	62.9	1.006	0.17	0.789	1.054
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 6		Reduced	41490	2680	20.29	21.50	1.321	62.9	1.006	-0.01	0.691	0.918
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 6		Reduced	40620	2593	20.58	21.50	1.236	62.9	1.006	-0.17	0.738	0.918
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6		Reduced	40620	2593	20.73	21.50	1.194	62.9	1.006	0.1	0.858	1.031
89	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 6		Reduced	40620	2593	23.61	24.50	1.227	42.9	1.009	-0.07	1.120	<b>1.387</b>
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 6	Headset	Reduced	40620	2593	23.61	24.50	1.227	42.9	1.009	0.09	1.050	1.300
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 6		Reduced	40620+40818	2593+2612.8	19.98	21.50	1.419	62.9	1.006	0.1	0.721	1.029
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 6		Reduced	39750+39948	2506+2525.8	19.72	21.50	1.507	62.9	1.006	0.02	0.637	0.965
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 6		Reduced	41490+41292	2680+2660.2	19.85	21.50	1.462	62.9	1.006	-0.06	0.639	0.940
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 6		Reduced	40185+40383	2549.5+2569.3	20.01	21.50	1.409	62.9	1.006	0.11	0.654	0.927
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 6		Reduced	41055+41253	2636.5+2656.3	20.16	21.50	1.361	62.9	1.006	0.03	0.660	0.904
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6		Reduced	39750	2506	20.60	21.50	1.230	62.9	1.006	-0.04	0.697	0.863
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6		Reduced	40185	2549.5	20.59	21.50	1.233	62.9	1.006	0.08	0.722	0.896
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6		Reduced	41055	2636.5	20.41	21.50	1.285	62.9	1.006	-0.06	0.626	0.809
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6		Reduced	41490	2680	20.51	21.50	1.256	62.9	1.006	-0.02	0.805	1.017
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6		Reduced	40620	2593	20.66	21.50	1.213	62.9	1.006	-0.12	0.827	1.009
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6		Reduced	39750	2506	20.49	21.50	1.262	62.9	1.006	0.11	0.738	0.937
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6		Reduced	40185	2549.5	20.58	21.50	1.236	62.9	1.006	0.07	0.823	1.023
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6		Reduced	41055	2636.5	20.27	21.50	1.327	62.9	1.006	0.05	0.769	1.027
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6		Reduced	41490	2680	20.29	21.50	1.321	62.9	1.006	0.06	0.765	1.017
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 6		Reduced	40620	2593	20.58	21.50	1.236	62.9	1.006	0.09	0.677	0.842
	LTE Band 41	20M	QPSK	1	0	-	Front	16mm	Ant 6		Full Power	41055	2636.5	23.19	24.00	1.205	62.9	1.006	0.06	0.411	0.498
	LTE Band 41	20M	QPSK	50	0	-	Front	16mm	Ant 6		Full Power	41055	2636.5	21.95	23.00	1.274	62.9	1.006	-0.11	0.497	0.637



**FCC SAR Test Report**

**Report No. : FA240834**

	LTE Band 41	20M	QPSK	1	0		Back	20mm	Ant 6		Full Power	40620	2593	23.19	24.00	1.205	62.9	1.006	0.04	0.324	0.393
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 8	-	Reduced	40620	2593	18.79	20.10	1.352	62.9	1.006	0.06	0.007	0.010
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 8	-	Reduced	40620	2593	18.28	19.10	1.208	62.9	1.006	-0.02	0.036	0.044
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 8	-	Reduced	40620	2593	18.79	20.10	1.352	62.9	1.006	-0.18	0.481	0.654
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 8	-	Reduced	39750	2506	18.52	20.10	1.439	62.9	1.006	-0.06	0.414	0.599
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 8	-	Reduced	40185	2549.5	18.48	20.10	1.452	62.9	1.006	0.05	0.387	0.565
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 8	-	Reduced	41055	2636.5	18.34	20.10	1.500	62.9	1.006	0.04	0.372	0.561
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 8	-	Reduced	41490	2680	18.30	20.10	1.514	62.9	1.006	-0.11	0.389	0.592
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 8	-	Reduced	40620	2593	18.28	19.10	1.208	62.9	1.006	0.02	0.620	0.753
	LTE Band 41 HPUE	20M	QPSK	50	0	-	Back	5mm	Ant 8	-	Reduced	40620	2593	21.22	22.00	1.197	42.9	1.009	0.06	0.809	0.977
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 8	-	Reduced	40620+40818	2593+2612.8	18.65	20.10	1.396	62.9	1.006	0.03	0.539	0.757
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 8	-	Reduced	39750	2506	17.92	19.10	1.312	62.9	1.006	-0.12	0.532	0.702
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 8	-	Reduced	40185	2549.5	18.07	19.10	1.268	62.9	1.006	0.09	0.572	0.729
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 8	-	Reduced	41055	2636.5	18.10	19.10	1.259	62.9	1.006	-0.07	0.507	0.642
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 8	-	Reduced	41490	2680	17.97	19.10	1.297	62.9	1.006	0.14	0.434	0.566
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 8	-	Reduced	40620	2593	18.10	19.10	1.259	62.9	1.006	-0.06	0.480	0.608
	LTE Band 41	20M	QPSK	50	0	-	Front	16mm	Ant 8	-	Full Power	40620	2593	20.66	21.60	1.242	62.9	1.006	0.12	0.002	0.002
	LTE Band 41	20M	QPSK	50	0	-	Back	20mm	Ant 8	-	Full Power	40620	2593	20.66	21.60	1.242	62.9	1.006	-0.11	0.505	0.631
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	Reduced	518598	2592.99	18.64	20.00	1.368	-	-	0.08	0.534	0.730
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	-	Reduced	518598	2592.99	18.61	20.00	1.377	-	-	-0.16	0.740	1.019
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 5	-	Reduced	518598	2592.99	18.58	20.00	1.387	-	-	0.01	0.647	0.897
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	Reduced	518598	2592.99	18.64	20.00	1.368	-	-	-0.04	0.685	0.937
90	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	-	Reduced	518598	2592.99	18.61	20.00	1.377	-	-	0.01	0.875	1.205
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 5	-	Reduced	518598	2592.99	18.58	20.00	1.387	-	-	0.17	0.867	1.202
	FR1 n41 UL MIMO	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	-	Reduced	518598	2592.99	15.48	17.00	1.419	-	-	0.06	0.374	0.531
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	16mm	Ant 5	-	Full Power	518598	2592.99	18.64	20.00	1.368	-	-	0.09	0.427	0.584
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	16mm	Ant 5	-	Full Power	518598	2592.99	18.61	20.00	1.377	-	-	0.16	0.424	0.584
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	20mm	Ant 5	-	Full Power	518598	2592.99	18.64	20.00	1.368	-	-	-0.06	0.254	0.347
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	20mm	Ant 5	-	Full Power	518598	2592.99	18.61	20.00	1.377	-	-	0.16	0.237	0.326
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 6	-	Reduced	518598	2592.99	21.53	22.00	1.114	-	-	-0.14	0.757	0.844
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 6	-	Reduced	518598	2592.99	21.49	22.00	1.125	-	-	0.08	0.561	0.631
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 6	-	Reduced	518598	2592.99	21.37	22.00	1.156	-	-	-0.18	0.574	0.664
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 6	-	Reduced	518598	2592.99	21.53	22.00	1.114	-	-	-0.15	0.971	1.082
	FR1 n41 HPUE -NSA&MIMO	100M	QPSK	1	1	DFT-30	Back	5mm	Ant6	-	Reduced	518598	2592.99	17.40	18.00	1.148	-	-	-0.1	0.470	0.540
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 6	-	Reduced	518598	2592.99	21.49	22.00	1.125	-	-	-0.17	0.907	1.020
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 6	-	Reduced	518598	2592.99	21.37	22.00	1.156	-	-	-0.16	0.672	0.777
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	16mm	Ant 6	-	Full Power	518598	2592.99	26.51	27.00	1.119	-	-	0.03	0.493	0.552
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	20mm	Ant 6	-	Full Power	518598	2592.99	26.51	27.00	1.119	-	-	0.02	0.322	0.360
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 7	-	Reduced	518598	2592.99	20.84	21.80	1.247	-	-	-0.17	0.669	0.834
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 7	-	Reduced	518598	2592.99	20.78	21.80	1.265	-	-	-0.08	0.871	1.102
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Front	5mm	Ant 7	-	Reduced	518598	2592.99	20.73	21.80	1.279	-	-	-0.12	0.644	0.824
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 7	-	Reduced	518598	2592.99	20.84	21.80	1.247	-	-	0.12	0.792	0.988
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	-	Reduced	518598	2592.99	20.78	21.80	1.265	-	-	-0.12	0.947	1.198
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 7	Headset	Reduced	518598	2592.99	20.78	21.80	1.265	-	-	0.01	0.898	1.136
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 7	-	Reduced	518598	2592.99	20.73	21.80	1.279	-	-	0.19	0.867	1.109
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	16mm	Ant 7	-	Full Power	518598	2592.99	24.75	25.80	1.274	-	-	0.02	0.207	0.264
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	20mm	Ant 7	-	Full Power	518598	2592.99	24.75	25.80	1.274	-	-	0.08	0.195	0.248
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	Reduced	518598	2592.99	19.66	20.80	1.300	-	-	-0.17	0.054	0.070
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	-	Reduced	518598	2592.99	19.56	20.80	1.330	-	-	0.07	0.043	0.057
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	Reduced	518598	2592.99	19.66	20.80	1.300	-	-	0.05	0.909	1.182
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-30	Back	5mm	Ant8	-	Reduced	518598	2592.99	16.72	17.80	1.282	-	-	0.02	0.433	0.555
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	Reduced	518598	2592.99	19.56	20.80	1.330	-	-	0.02	0.759	1.010
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	-	Reduced	518598	2592.99	19.44	20.80	1.368	-	-	-0.05	0.722	0.988
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	20mm	Ant 8	-	Full Power	518598	2592.99	24.60	25.80	1.318	-	-	-0.12	0.005	0.007
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	20mm	Ant 8	-	Full Power	518598	2592.99	24.60	25.80	1.318	-	-	0.14	0.101	0.133





**FCC SAR Test Report**

**Report No. : FA240834**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	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)
<b>3500-3900MHz</b>																					
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 3	-	Reduced	55830	3609	17.34	18.00	1.164	62.9	1.006	0.16	0.158	0.185
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 3	-	Reduced	55830	3609	16.35	17.00	1.161	62.9	1.006	-0.12	0.127	0.148
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	-	Reduced	55830	3609	17.34	18.00	1.164	62.9	1.006	-0.07	0.934	1.094
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	-	Reduced	55340	3560	17.18	18.00	1.208	62.9	1.006	0.1	0.962	1.169
	LTE Band 48 -ENDC	20M	QPSK	1	0	-	Back	5mm	Ant3	-	Reduced	55340	3560	14.18	15.00	1.208	62.9	1.006	0.01	0.451	0.548
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 3	-	Reduced	55340+55538	3560+3579.8	17.03	18.00	1.250	62.9	1.006	0.03	0.854	1.074
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	-	Reduced	56150	3641	17.11	18.00	1.227	62.9	1.006	0.15	0.840	1.037
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	-	Reduced	56640	3690	17.22	18.00	1.197	62.9	1.006	0.17	0.890	1.071
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	-	Reduced	55830	3609	16.35	17.00	1.161	62.9	1.006	0.05	0.536	0.626
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	-	Reduced	55340	3560	16.16	17.00	1.213	62.9	1.006	-0.12	0.552	0.674
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	-	Reduced	56150	3641	16.06	17.00	1.242	62.9	1.006	-0.06	0.680	0.849
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	-	Reduced	56640	3690	16.33	17.00	1.167	62.9	1.006	0.11	0.721	0.846
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 3	-	Reduced	55830	3609	16.31	17.00	1.172	62.9	1.006	-0.18	0.577	0.680
	LTE Band 48	20M	QPSK	1	0	-	Front	16mm	Ant 3	-	Full Power	55830	3609	23.27	24.00	1.340	62.9	1.006	0.01	0.112	0.151
	LTE Band 48	20M	QPSK	1	0	-	Back	20mm	Ant 3	-	Full Power	55340	3560	22.97	24.00	1.324	62.9	1.006	0.08	0.397	0.529
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	Reduced	55830	3609	17.56	18.20	1.159	62.9	1.006	0.13	0.103	0.120
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	Reduced	55830	3609	16.52	17.20	1.169	62.9	1.006	-0.17	0.069	0.081
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	Reduced	55830	3609	17.56	18.20	1.159	62.9	1.006	0.07	0.808	0.942
	LTE Band 48 -ENDC	20M	QPSK	1	0	-	Back	5mm	Ant4	-	Reduced	55830	3609	14.53	15.20	1.167	62.9	1.006	0.02	0.391	0.459
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 4	-	Reduced	55830+56028	3609+3628.8	17.46	18.20	1.186	62.9	1.006	0.01	0.685	0.817
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	Reduced	55340	3560	17.51	18.20	1.172	62.9	1.006	0.09	0.718	0.847
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	Reduced	56150	3641	17.31	18.20	1.227	62.9	1.006	-0.09	0.725	0.895
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	Reduced	56640	3690	17.40	18.20	1.202	62.9	1.006	0.19	0.722	0.873
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	Reduced	55830	3609	16.52	17.20	1.169	62.9	1.006	-0.13	0.622	0.732
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	Reduced	55340	3560	16.43	17.20	1.194	62.9	1.006	0.01	0.585	0.703
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	Reduced	56150	3641	16.31	17.20	1.227	62.9	1.006	0.12	0.582	0.719
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	Reduced	56640	3690	16.26	17.20	1.242	62.9	1.006	-0.07	0.579	0.723
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	Reduced	55830	3609	16.47	17.20	1.183	62.9	1.006	0.01	0.622	0.740
	LTE Band 48	20M	QPSK	1	0	-	Front	16mm	Ant 4	-	Full Power	55830	3609	22.47	23.20	1.183	62.9	1.006	0.02	0.106	0.126
	LTE Band 48	20M	QPSK	1	0	-	Back	20mm	Ant 4	-	Full Power	55830	3609	22.47	23.20	1.183	62.9	1.006	-0.04	0.385	0.458
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	-	Reduced	55830	3609	17.81	18.40	1.146	62.9	1.006	-0.13	0.033	0.038
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	-	Reduced	55830	3609	16.78	17.40	1.153	62.9	1.006	0.07	0.026	0.030
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	Reduced	55830	3609	17.81	18.40	1.146	62.9	1.006	0.01	0.824	0.950
	LTE Band 48 -ENDC	20M	QPSK	1	0	-	Back	5mm	Ant5	-	Reduced	55830	3609	14.76	15.40	1.159	62.9	1.006	0.09	0.397	0.463
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 5	-	Reduced	55830+56028	3609+3628.8	17.77	18.40	1.156	62.9	1.006	0.03	0.751	0.873
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	Reduced	55340	3560	17.62	18.40	1.197	62.9	1.006	0.05	0.609	0.733
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	Reduced	56150	3641	17.56	18.40	1.213	62.9	1.006	0.18	0.759	0.926
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	-	Reduced	56640	3690	17.54	18.40	1.219	62.9	1.006	0.06	0.725	0.889
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	Reduced	55830	3609	16.78	17.40	1.153	62.9	1.006	0.04	0.551	0.639
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	Reduced	55340	3560	16.65	17.40	1.189	62.9	1.006	0.17	0.370	0.442
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	Reduced	56150	3641	16.69	17.40	1.178	62.9	1.006	-0.03	0.600	0.711
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	-	Reduced	56640	3690	16.54	17.40	1.219	62.9	1.006	-0.14	0.476	0.584
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 5	-	Reduced	55830	3609	16.69	17.40	1.178	62.9	1.006	0.12	0.547	0.648
	LTE Band 48	20M	QPSK	1	0	-	Front	16mm	Ant 5	-	Full Power	55830	3609	21.24	21.90	1.164	62.9	1.006	0.01	0.116	0.136
	LTE Band 48	20M	QPSK	1	0	-	Back	20mm	Ant 5	-	Full Power	55830	3609	21.24	21.90	1.164	62.9	1.006	-0.06	0.382	0.447
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 8	-	Reduced	55830	3609	11.39	12.80	1.384	62.9	1.006	0.05	0.039	0.054
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 8	-	Reduced	55830	3609	10.46	11.80	1.361	62.9	1.006	-0.1	0.027	0.037
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	-	Reduced	55830	3609	11.39	12.80	1.384	62.9	1.006	0.17	0.727	1.012
91	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	-	Reduced	55340	3560	11.31	12.80	1.409	62.9	1.006	-0.08	0.841	<b>1.192</b>
	LTE Band 48 -ENDC	20M	QPSK	1	0	-	Back	5mm	Ant8	-	Reduced	55340	3560	9.41	10.80	1.377	62.9	1.006	0.09	0.424	0.587
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 8	-	Reduced	55340+55538	3560+3579.8	11.16	12.80	1.459	62.9	1.006	0.06	0.748	1.098

**Sporton International Inc. (Kunshan)**

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHDT56AE7

Issued Date : Jul. 14, 2022

Form version. : 200414



**FCC SAR Test Report**

**Report No. : FA240834**

	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	-	Reduced	56150	3641	11.21	12.80	1.442	62.9	1.006	-0.05	0.495	0.718
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	-	Reduced	56640	3690	11.19	12.80	1.449	62.9	1.006	-0.04	0.344	0.501
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	-	Reduced	55830	3609	11.46	12.80	1.361	62.9	1.006	0.16	0.584	0.800
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	-	Reduced	55340	3560	11.23	12.80	1.435	62.9	1.006	-0.03	0.799	1.154
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	-	Reduced	56150	3641	11.15	12.80	1.462	62.9	1.006	0.19	0.585	0.861
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	-	Reduced	56640	3690	11.20	12.80	1.445	62.9	1.006	-0.01	0.751	1.092
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 8	-	Reduced	55830	3609	11.22	12.80	1.439	62.9	1.006	-0.03	0.499	0.722
	LTE Band 48	20M	QPSK	1	0	-	Front	16mm	Ant 8	-	Full Power	55830	3609	20.88	22.30	1.387	62.9	1.006	0.05	0.105	0.146
	LTE Band 48	20M	QPSK	1	0	-	Back	20mm	Ant 8	-	Full Power	55340	3560	20.84	22.30	1.400	62.9	1.006	-0.04	0.339	0.477
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 3	-	Reduced	641666	3624.99	17.78	19.00	1.324	-	-	0.13	0.248	0.328
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 3	-	Reduced	641666	3624.99	17.73	19.00	1.340	-	-	0.15	0.276	0.370
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	-	Reduced	641666	3624.99	17.78	19.00	1.324	-	-	-0.15	0.828	1.097
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	-	Reduced	638000	3570	17.68	19.00	1.355	-	-	-0.05	0.792	1.073
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	-	Reduced	645332	3679.98	17.66	19.00	1.361	-	-	0.12	0.802	1.092
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 3	-	Reduced	641666	3624.99	17.73	19.00	1.340	-	-	-0.05	0.890	1.192
	FR1 n48-NSA	40M	QPSK	50	28	DFT-30	Back	5mm	Ant3	-	Reduced	641666	3624.99	14.52	16.00	1.406	-	-	-0.09	0.424	0.596
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 3	-	Reduced	638000	3570	17.55	19.00	1.396	-	-	0.15	0.847	1.183
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 3	-	Reduced	645332	3679.98	17.49	19.00	1.416	-	-	-0.16	0.809	1.145
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 3	-	Reduced	641666	3624.99	17.65	19.00	1.365	-	-	-0.07	0.775	1.058
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	16mm	Ant 3	-	Full Power	641666	3624.99	22.53	24.00	1.403	-	-	0.04	0.144	0.202
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	20mm	Ant 3	-	Full Power	641666	3624.99	22.53	24.00	1.403	-	-	-0.06	0.332	0.466
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	-	Reduced	641666	3624.99	15.07	16.70	1.455	-	-	-0.03	0.154	0.224
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 4	-	Reduced	641666	3624.99	15.03	16.70	1.469	-	-	-0.08	0.223	0.328
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	Reduced	641666	3624.99	15.07	16.70	1.455	-	-	0.02	0.820	1.193
	FR1 n48-NSA	40M	QPSK	1	1	DFT-30	Back	5mm	Ant4	-	Reduced	641666	3624.99	11.61	13.20	1.442	-	-	0.09	0.407	0.587
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	Reduced	638000	3570	14.94	16.70	1.500	-	-	0.15	0.780	1.170
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	Reduced	645332	3679.98	15.05	16.70	1.462	-	-	-0.03	0.760	1.111
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	-	Reduced	641666	3624.99	15.03	16.70	1.469	-	-	0.06	0.797	1.171
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	-	Reduced	638000	3570	14.83	16.70	1.538	-	-	-0.17	0.747	1.149
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 4	-	Reduced	645332	3679.98	14.93	16.70	1.503	-	-	-0.12	0.730	1.097
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 4	-	Reduced	641666	3624.99	14.95	16.70	1.496	-	-	0.01	0.718	1.074
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	16mm	Ant 4	-	Full Power	641666	3624.99	21.99	23.70	1.483	-	-	0.06	0.065	0.096
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	20mm	Ant 4	-	Full Power	641666	3624.99	22.00	23.70	1.479	-	-	-0.01	0.354	0.524
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	Reduced	641666	3624.99	18.71	20.00	1.346	-	-	0.1	0.041	0.055
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 5	-	Reduced	641666	3624.99	18.66	20.00	1.361	-	-	-0.07	0.043	0.059
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	Reduced	641666	3624.99	18.71	20.00	1.346	-	-	0.17	0.652	0.878
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	Reduced	638000	3570	18.54	20.00	1.400	-	-	-0.08	0.617	0.864
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	Reduced	645332	3679.98	18.55	20.00	1.396	-	-	-0.14	0.621	0.867
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	-	Reduced	641666	3624.99	18.66	20.00	1.361	-	-	0.01	0.827	1.126
	FR1 n48-NSA	40M	QPSK	50	28	DFT-30	Back	5mm	Ant5	-	Reduced	641666	3624.99	15.48	17.00	1.419	-	-	0.03	0.414	0.587
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	-	Reduced	638000	3570	18.41	20.00	1.442	-	-	-0.14	0.754	1.087
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 5	-	Reduced	645332	3679.98	18.65	20.00	1.365	-	-	0.1	0.791	1.079
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 5	-	Reduced	641666	3624.99	18.63	20.00	1.371	-	-	0.17	0.664	0.910
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	16mm	Ant 5	-	Full Power	641666	3624.99	22.60	24.00	1.380	-	-	-0.15	0.129	0.178
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	20mm	Ant 5	-	Full Power	641666	3624.99	22.60	24.00	1.380	-	-	0.01	0.256	0.353
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	Reduced	641666	3624.99	14.45	16.00	1.429	-	-	0.18	0.036	0.051
	FR1 n48	40M	QPSK	50	28	DFT-30	Front	5mm	Ant 8	-	Reduced	641666	3624.99	14.33	16.00	1.469	-	-	-0.07	0.026	0.038
92	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	Reduced	641666	3624.99	14.45	16.00	1.429	-	-	0.01	0.838	<b>1.197</b>
	FR1 n48-NSA	40M	QPSK	1	1	DFT-30	Back	5mm	Ant8	-	Reduced	641666	3624.99	11.56	13.00	1.393	-	-	0.03	0.416	0.580
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	Reduced	638000	3570	14.33	16.00	1.469	-	-	0.04	0.754	1.108
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	Reduced	645332	3679.98	14.21	16.00	1.510	-	-	-0.02	0.777	1.173
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	-	Reduced	641666	3624.99	14.33	16.00	1.469	-	-	0.08	0.789	1.159
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	-	Reduced	638000	3570	14.17	16.00	1.524	-	-	0.15	0.697	1.062
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	5mm	Ant 8	-	Reduced	645332	3679.98	14.19	16.00	1.517	-	-	0.14	0.724	1.098
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	5mm	Ant 8	-	Reduced	641666	3624.99	14.29	16.00	1.483	-	-	0.1	0.703	1.042
	FR1 n48	40M	QPSK	1	1	DFT-30	Front	16mm	Ant 8	-	Full Power	641666	3624.99	20.95	22.60	1.462	-	-	0.03	0.030	0.044
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	20mm	Ant 8	-	Full Power	641666	3624.99	20.95	22.60	1.462	-	-	-0.04	0.196	0.287





**FCC SAR Test Report**

**Report No. : FA240834**

	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 3	-	Reduced	656000	3840	16.30	17.50	1.318	-	-	-0.16	0.359	0.473
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 3	-	Reduced	656000	3840	16.21	17.50	1.346	-	-	-0.07	0.385	0.518
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	-	Reduced	656000	3840	16.30	17.50	1.318	-	-	0.15	0.885	1.167
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 3	-	Reduced	656000	3840	16.21	17.50	1.346	-	-	-0.13	0.713	0.960
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 3	-	Reduced	656000	3840	16.17	17.50	1.358	-	-	-0.08	0.878	1.193
	FR1 n77Par270 HPUE -NSA	100M	QPSK	270	0	DFT-30	Back	5mm	Ant3	-	Reduced	656000	3840	12.98	14.50	1.419	-	-	0.05	0.419	0.595
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Front	16mm	Ant 3	-	Full Power	656000	3840	25.27	27.00	1.489	-	-	0.08	0.216	0.322
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Back	20mm	Ant 3	-	Full Power	656000	3840	24.29	26.00	1.483	-	-	0.04	0.358	0.531
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 3	-	Reduced	633334	3500.01	16.69	17.50	1.205	-	-	0.03	0.141	0.170
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 3	-	Reduced	633334	3500.01	16.50	17.50	1.259	-	-	-0.17	0.194	0.244
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	-	Reduced	633334	3500.01	16.69	17.50	1.205	-	-	-0.17	0.884	1.065
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 3	-	Reduced	633334	3500.01	16.50	17.50	1.259	-	-	-0.13	0.715	0.900
	FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 3	-	Reduced	633334	3500.01	16.45	17.50	1.274	-	-	-0.01	0.893	1.137
	FR1 n77Part27Q HPUE -NSA	100M	QPSK	270	0	DFT-30	Back	5mm	Ant3	-	Reduced	633334	3500.01	12.97	14.50	1.422	-	-	-0.02	0.421	0.599
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	16mm	Ant 3	-	Full Power	633334	3500.01	26.07	27.00	1.239	-	-	0.06	0.168	0.208
	FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	20mm	Ant 3	-	Full Power	633334	3500.01	25.04	26.00	1.247	-	-	-0.05	0.382	0.477
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	-	Reduced	656000	3840	18.57	19.50	1.239	-	-	0.17	0.244	0.302
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	-	Reduced	656000	3840	18.52	19.50	1.253	-	-	-0.07	0.221	0.277
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	Reduced	656000	3840	18.57	19.50	1.239	-	-	-0.16	0.855	1.059
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	-	Reduced	656000	3840	18.52	19.50	1.253	-	-	0.04	0.768	0.962
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	-	Reduced	656000	3840	18.50	19.50	1.259	-	-	-0.02	0.938	1.181
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	Headset	Reduced	656000	3840	18.50	19.50	1.259	-	-	0.08	0.766	0.964
	FR1 n77Par270 HPUE -NSA	100M	QPSK	270	0	DFT-30	Back	5mm	Ant4	-	Reduced	656000	3840	14.73	16.50	1.503	-	-	-0.02	0.398	0.598
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Front	16mm	Ant 4	-	Full Power	656000	3840	25.35	27.00	1.462	-	-	-0.05	0.081	0.118
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Back	20mm	Ant 4	-	Full Power	656000	3840	24.20	26.00	1.514	-	-	0.07	0.201	0.304
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 4	-	Reduced	633334	3500.01	18.75	19.50	1.189	-	-	0.08	0.124	0.147
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 4	-	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.17	0.134	0.161
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 4	-	Reduced	633334	3500.01	18.75	19.50	1.189	-	-	0.17	0.928	1.103
93	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	-	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.09	0.996	1.195
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	Headset	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.05	0.801	0.961
	FR1 n77Part27Q HPUE -NSA	100M	QPSK	135	69	DFT-30	Back	5mm	Ant4	-	Reduced	633334	3500.01	14.77	16.50	1.489	-	-	0.01	0.400	0.596
	FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	-	Reduced	633334	3500.01	18.68	19.50	1.208	-	-	0.1	0.721	0.871
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	16mm	Ant 4	-	Full Power	633334	3500.01	25.25	27.00	1.496	-	-	0.03	0.068	0.102
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	20mm	Ant 4	-	Full Power	633334	3500.01	25.25	27.00	1.496	-	-	0.04	0.206	0.308
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	Reduced	656000	3840	18.59	19.50	1.233	-	-	-0.03	0.031	0.038
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	-	Reduced	656000	3840	18.56	19.50	1.242	-	-	0.15	0.033	0.041
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	Reduced	656000	3840	18.59	19.50	1.233	-	-	-0.07	0.935	1.153
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	Headset	Reduced	656000	3840	18.59	19.50	1.233	-	-	-0.02	0.833	1.027
	FR1 n77Par270 HPUE -NSA	100M	QPSK	1	1	DFT-30	Back	5mm	Ant5	-	Reduced	656000	3840	14.59	16.00	1.384	-	-	0.01	0.416	0.576
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	-	Reduced	656000	3840	18.56	19.50	1.242	-	-	0.14	0.821	1.019
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 5	-	Reduced	656000	3840	18.33	19.50	1.309	-	-	-0.01	0.590	0.772
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Front	16mm	Ant 5	-	Full Power	656000	3840	25.55	27.00	1.396	-	-	0.06	0.051	0.071
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Back	20mm	Ant 5	-	Full Power	656000	3840	25.52	27.00	1.406	-	-	-0.02	0.142	0.200
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	-	Reduced	633334	3500.01	18.79	19.50	1.178	-	-	-0.05	0.036	0.042
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	-	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	-0.13	0.044	0.053
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	-	Reduced	633334	3500.01	18.79	19.50	1.178	-	-	0.03	0.982	1.156
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	-	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	-0.09	0.992	1.190
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	Headset	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.11	0.847	1.016
	FR1 n77Part27Q HPUE -NSA	100M	QPSK	135	69	DFT-30	Back	5mm	Ant5	-	Reduced	633334	3500.01	14.46	16.00	1.426	-	-	0.07	0.419	0.597
	FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 5	-	Reduced	633334	3500.01	18.57	19.50	1.239	-	-	0.09	0.747	0.925
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	16mm	Ant 5	-	Full Power	633334	3500.01	25.33	27.00	1.469	-	-	0.12	0.162	0.238
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	20mm	Ant 5	-	Full Power	633334	3500.01	25.33	27.00	1.469	-	-	-0.05	0.367	0.539
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	Reduced	656000	3840	9.45	10.00	1.135	-	-	0.11	0.007	0.008
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	-	Reduced	656000	3840	9.34	10.00	1.164	-	-	0.07	0.006	0.007
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	Reduced	656000	3840	9.45	10.00	1.135	-	-	0.13	0.385	0.437



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FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	Reduced	656000	3840	9.34	10.00	1.164	-	-	-0.09	0.456	0.531
FR1 n77Par270 HPUE -NSA	100M	QPSK	135	69	DFT-30	Back	5mm	Ant8	-	Reduced	656000	3840	6.40	7.00	1.148	-	-	-0.06	0.217	0.249
FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Front	16mm	Ant 8	-	Full Power	656000	3840	22.50	24.10	1.445	-	-	0.04	0.039	0.056
FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Back	20mm	Ant 8	-	Full Power	656000	3840	22.46	24.10	1.459	-	-	0.08	0.249	0.363
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	-	Reduced	633334	3500.01	9.43	10.00	1.140	-	-	0.11	0.009	0.010
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	-	Reduced	633334	3500.01	9.13	10.00	1.222	-	-	-0.02	0.010	0.012
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	-	Reduced	633334	3500.01	9.43	10.00	1.140	-	-	0.13	0.711	0.811
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	-	Reduced	633334	3500.01	9.13	10.00	1.222	-	-	-0.02	0.913	1.116
FR1 n77Part27Q HPUE -NSA	100M	QPSK	135	69	DFT-30	Back	5mm	Ant8	-	Reduced	633334	3500.01	6.18	7.00	1.208	-	-	-0.01	0.360	0.435
FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 8	-	Reduced	633334	3500.01	9.08	10.00	1.236	-	-	0.1	0.882	1.090
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	16mm	Ant 8	-	Full Power	633334	3500.01	22.31	24.10	1.510	-	-	0.09	0.036	0.054
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	20mm	Ant 8	-	Full Power	633334	3500.01	22.31	24.10	1.510	-	-	-0.08	0.241	0.364

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	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)	
<b>WiFi/Bluetooth</b>																		
	WLAN 2.4GHz	802.11b 1Mbps	Front	5mm	Ant 2+9		Full Power	6	2437	22.96	24.50	1.426	99.52	1.005	-0.05	0.665	0.953	
	WLAN 2.4GHz	802.11b 1Mbps	Front	5mm	Ant 2+9		Full Power	1	2412	22.76	24.50	1.493	99.52	1.005	0.09	0.589	0.884	
	WLAN 2.4GHz	802.11b 1Mbps	Front	5mm	Ant 2+9		Full Power	11	2462	21.91	23.50	1.442	99.52	1.005	-0.02	0.628	0.910	
94	WLAN 2.4GHz	802.11b 1Mbps	Back	5mm	Ant 2+9		Full Power	6	2437	22.96	24.50	1.426	99.52	1.005	-0.07	0.848	<b>1.215</b>	
	WLAN 2.4GHz	802.11b 1Mbps	Back	5mm	Ant 2+9	Headset	Full Power	6	2437	22.96	24.50	1.426	99.52	1.005	0.06	0.754	1.080	
	WLAN 2.4GHz	802.11b 1Mbps	Back	5mm	Ant 2+9		Simultaneous	6	2437	17.42	19.00	1.439	99.52	1.005	0.04	0.245	0.354	
	WLAN 2.4GHz	802.11b 1Mbps	Back	5mm	Ant 2+9		Full Power	1	2412	22.76	24.50	1.493	99.52	1.005	0.05	0.759	1.139	
	WLAN 2.4GHz	802.11b 1Mbps	Back	5mm	Ant 2+9		Full Power	11	2462	21.91	23.50	1.442	99.52	1.005	0.05	0.664	0.962	
	WLAN 2.4GHz	802.11b 1Mbps	Back	20mm	Ant 2+9		Full Power	6	2437	22.96	24.50	1.426	99.52	1.005	0.04	0.152	0.218	
	Bluetooth	1Mbps	Front	5mm	Ant 2		Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	0.02	0.079	0.113	
95	Bluetooth	1Mbps	Back	5mm	Ant 2		Full Power	39	2441	18.10	18.50	1.096	77.01	1.299	-0.09	0.097	<b>0.138</b>	
96	WLAN 5.3GHz	802.11n-HT40 MCS0	Front	5mm	Ant 2+9		Reduced	54	5270	19.81	21.50	1.476	94.12	1.062	-0.18	0.720	<b>1.128</b>	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 2+9		Simultaneous	58	5290	14.14	15.50	1.368	89.19	1.121	-0.02	0.210	0.322	
	WLAN 5.3GHz	802.11n-HT40 MCS0	Front	5mm	Ant 2+9		Reduced	62	5310	16.62	18.00	1.374	94.12	1.062	-0.18	0.364	0.531	
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	5mm	Ant 2+9		Reduced	54	5270	19.81	21.50	1.476	94.12	1.062	0.03	0.484	0.759	
	WLAN 5.3GHz	802.11n-HT40 MCS0	Front	16mm	Ant 2+9		Full Power	54	5270	20.21	22.00	1.510	94.12	1.062	-0.18	0.137	0.220	
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	20mm	Ant 2+9		Full Power	54	5270	20.21	22.00	1.510	94.12	1.062	0.03	0.120	0.192	
	WLAN 5.5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 2+9		Reduced	110	5550	18.43	19.50	1.279	94.12	1.062	-0.1	0.348	0.473	
97	WLAN 5.5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 2+9		Reduced	110	5550	18.43	19.50	1.279	94.12	1.062	0.01	0.703	<b>0.955</b>	
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 2+9		Simultaneous	106	5530	13.48	15.00	1.419	89.19	1.121	0.14	0.236	0.375	
	WLAN 5.5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 2+9		Reduced	134	5670	18.18	19.50	1.355	94.12	1.062	0.05	0.622	0.895	
	WLAN 5.5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 2+9		Reduced	102	5510	15.75	17.50	1.496	94.12	1.062	0.01	0.395	0.628	
	WLAN 5.5GHz	802.11n-HT40 MCS0	Front	16mm	Ant 2+9		Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	-0.1	0.121	0.186	
	WLAN 5.5GHz	802.11n-HT40 MCS0	Back	20mm	Ant 2+9		Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	0.01	0.172	0.265	
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 2+9		Reduced	155	5775	18.57	20.00	1.390	89.19	1.121	0.06	0.441	0.687	
98	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 2+9		Reduced	155	5775	18.57	20.00	1.390	89.19	1.121	-0.01	0.688	<b>1.072</b>	
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 2+9		Simultaneous	155	5775	14.38	16.00	1.452	89.19	1.121	-0.18	0.238	0.387	
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Front	16mm	Ant 2+9		Full Power	155	5775	20.61	22.50	1.545	89.19	1.121	0.06	0.121	0.210	
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	20mm	Ant 2+9		Full Power	155	5775	20.61	22.50	1.545	89.19	1.121	-0.01	0.161	0.279	



15.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	
<b>835MHz</b>																			
99	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 0	Full Power	189	836.4	28.82	30.00	1.312	0.06	1.480	1.942	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	Full Power	189	836.4	28.82	30.00	1.312	0.07	1.610	<b>2.113</b>	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	Full Power	128	824.2	28.67	30.00	1.358	-0.08	1.520	2.065	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	Full Power	251	848.8	28.80	30.00	1.318	0.15	1.480	1.951	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	Full Power	189	836.4	28.82	30.00	1.312	0.01	1.190	1.562	
<b>1750MHz</b>																			
100	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	Reduced	1413	1732.6	19.63	20.50	1.222	-0.09	1.670	2.040	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	Reduced	1312	1712.4	19.41	20.50	1.285	-0.13	1.880	2.416	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	Reduced	1513	1752.6	19.59	20.50	1.233	-0.14	1.650	2.035	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	Reduced	1413	1732.6	19.63	20.50	1.222	0.14	2.250	2.749	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	Reduced	1312	1712.4	19.41	20.50	1.285	0.06	2.430	<b>3.123</b>	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	Reduced	1513	1752.6	19.59	20.50	1.233	0.01	2.290	2.824	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	0mm	Ant 0	Full Power	1413	1732.6	23.28	24.00	1.180	0.08	0.746	0.881	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	Reduced	1413	1732.6	19.63	20.50	1.222	0.02	1.930	2.358	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	Reduced	1312	1712.4	19.41	20.50	1.285	-0.01	1.940	2.493	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	Reduced	1513	1752.6	19.59	20.50	1.233	-0.13	2.060	2.540	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	7mm	Ant 0	Full Power	1312	1712.4	23.12	24.00	1.225	0.08	1.050	1.286	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	11mm	Ant 0	Full Power	1312	1712.4	23.12	24.00	1.225	0.04	0.944	1.156	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	11mm	Ant 0	Full Power	1513	1752.6	23.24	24.00	1.191	0.01	1.240	1.477	
	101	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 0	Reduced	132322	1745	19.76	20.50	1.186	0.15	1.480	1.755
		LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 0	Reduced	132322	1745	18.74	19.50	1.191	-0.17	1.230	1.465
LTE Band 66		20M	QPSK	1	0	-	Back	0mm	Ant 0	Reduced	132322	1745	19.76	20.50	1.186	0.08	1.880	2.229	
LTE Band 66		20M	QPSK	1	0	-	Back	0mm	Ant 0	Reduced	132072	1720	19.54	20.50	1.247	-0.08	1.930	2.407	
LTE Band 66		20M	QPSK	1	0	-	Back	0mm	Ant 0	Reduced	132572	1770	19.55	20.50	1.245	-0.09	1.920	2.389	
LTE Band 66		20M	QPSK	50	0	-	Back	0mm	Ant 0	Reduced	132322	1745	18.74	19.50	1.191	0.16	1.510	1.799	
LTE Band 66		20M	QPSK	100	0	-	Back	0mm	Ant 0	Reduced	132322	1745	18.56	19.50	1.242	-0.05	1.480	1.838	
LTE Band 66		20M	QPSK	1	0	-	Left Side	0mm	Ant 0	Full Power	132322	1745	23.15	24.00	1.216	0.14	0.498	0.606	
LTE Band 66		20M	QPSK	50	0	-	Left Side	0mm	Ant 0	Full Power	132322	1745	22.17	23.00	1.211	-0.06	0.453	0.548	
LTE Band 66		20M	QPSK	1	0	-	Right Side	0mm	Ant 0	Full Power	132322	1745	23.15	24.00	1.216	0.01	0.617	0.750	
LTE Band 66		20M	QPSK	50	0	-	Right Side	0mm	Ant 0	Full Power	132322	1745	22.17	23.00	1.211	-0.09	0.577	0.699	
LTE Band 66		20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	Reduced	132322	1745	19.76	20.50	1.186	-0.13	1.730	2.051	
LTE Band 66		20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	Reduced	132072	1720	19.54	20.50	1.247	-0.02	1.530	1.908	
LTE Band 66		20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	Reduced	132572	1770	19.55	20.50	1.245	0.09	2.640	<b>3.286</b>	
LTE Band 66 -ENDC		20M	QPSK	1	0	-	Bottom Side	0mm	Ant0	Reduced	132572	1770	15.88	17.00	1.294	0.05	1.150	1.488	
LTE Band 66C		20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	Reduced	132572+132374	1770+1750.2	19.48	20.50	1.265	0.02	2.510	3.174	
LTE Band 66C		20M	QPSK	1	99	-	Bottom Side	0mm	Ant 0	Reduced	132072+132270	1720+1739.8	19.45	20.50	1.274	-0.18	2.380	3.031	
LTE Band 66C		20M	QPSK	1	99	-	Bottom Side	0mm	Ant 0	Reduced	132322+132520	1745+1764.8	19.60	20.50	1.230	0.1	2.170	2.670	
LTE Band 66		20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	Reduced	132322	1745	18.74	19.50	1.191	-0.08	1.210	1.441	
LTE Band 66		20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	Reduced	132322	1745	18.56	19.50	1.242	-0.17	1.320	1.639	
LTE Band 66		20M	QPSK	1	0	-	Front	7mm	Ant 0	Full Power	132322	1745	23.15	24.00	1.216	0.07	0.781	0.950	
LTE Band 66		20M	QPSK	1	0	-	Back	11mm	Ant 0	Full Power	132072	1720	22.94	24.00	1.276	-0.09	0.627	0.800	
LTE Band 66		20M	QPSK	1	0	-	Bottom Side	11mm	Ant 0	Full Power	132572	1770	22.83	24.00	1.309	0.04	0.849	1.111	
LTE Band 66		20M	QPSK	1	0	-	Front	0mm	Ant 1	Reduced	132322	1745	19.12	20.00	1.225	-0.09	1.530	1.874	
LTE Band 66		20M	QPSK	50	0	-	Front	0mm	Ant 1	Reduced	132322	1745	18.19	19.00	1.205	-0.11	1.200	1.446	
LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	Reduced	132322	1745	19.12	20.00	1.225	-0.13	1.370	1.678		
LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	Reduced	132322	1745	18.19	19.00	1.205	-0.17	1.090	1.313		
LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	Reduced	132322	1745	19.12	20.00	1.225	0.08	2.070	2.535		
LTE Band 66 -ENDC	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	Reduced	132322	1745	16.66	17.50	1.213	0.04	1.150	1.395		



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	LTE Band 66C	20M	QPSK	1	99	-	Top Side	0mm	Ant 1	Reduced	132322+ 132520	1745+ 1764.8	19.04	20.00	1.247	0.04	1.862	2.323
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	Reduced	132072	1720	19.05	20.00	1.245	0.03	2.010	2.501
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	Reduced	132572	1770	18.82	20.00	1.312	-0.13	1.860	2.441
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	Reduced	132322	1745	18.19	19.00	1.205	-0.12	1.740	2.097
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	Reduced	132072	1720	18.01	19.00	1.256	0.1	1.670	2.098
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	Reduced	132572	1745	18.03	19.00	1.250	0.03	1.630	2.038
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	Reduced	132322	1745	18.16	19.00	1.213	-0.07	1.660	2.014
	LTE Band 66	20M	QPSK	1	0	-	Front	6mm	Ant 1	Full Power	132322	1745	22.04	23.00	1.247	0.06	0.755	0.942
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	132322	1745	22.04	23.00	1.247	-0.11	0.639	0.797
	LTE Band 66	20M	QPSK	1	0	-	Top Side	11mm	Ant 1	Full Power	132322	1745	22.04	23.00	1.247	0.08	0.532	0.664
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	Reduced	349000	1745	22.67	23.00	1.079	-0.11	2.030	2.190
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	Reduced	349000	1745	22.60	23.00	1.096	-0.13	2.190	2.401
	FR1 n66	40M	QPSK	216	0	DFT-15	Front	0mm	Ant 0	Reduced	349000	1745	22.52	23.00	1.117	-0.1	2.000	2.234
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	Reduced	349000	1745	22.67	23.00	1.079	-0.17	2.580	2.784
102	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	Reduced	349000	1745	22.60	23.00	1.096	-0.18	2.600	2.851
	FR1 n66-NSA	40M	QPSK	108	54	DFT-15	Back	0mm	Ant0	Reduced	349000	1745	19.66	20.00	1.081	0.04	1.210	1.309
	FR1 n66	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 0	Reduced	349000	1745	22.52	23.00	1.117	-0.12	2.460	2.747
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Side	0mm	Ant 0	Full Power	349000	1745	24.11	24.50	1.094	-0.17	0.360	0.394
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Side	0mm	Ant 0	Full Power	349000	1745	24.06	24.50	1.107	-0.02	0.622	0.688
	FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	Reduced	349000	1745	22.67	23.00	1.079	-0.08	2.090	2.255
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	Reduced	349000	1745	22.60	23.00	1.096	0.02	2.240	2.456
	FR1 n66	40M	QPSK	216	0	DFT-15	Bottom Side	0mm	Ant 0	Reduced	349000	1745	22.52	23.00	1.117	-0.16	1.860	2.077
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	7mm	Ant 0	Full Power	349000	1745	24.06	24.50	1.107	0.04	0.491	0.543
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	11mm	Ant 0	Full Power	349000	1745	24.06	24.50	1.107	-0.09	0.461	0.510
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	11mm	Ant 0	Full Power	349000	1745	24.06	24.50	1.107	0.01	0.525	0.581
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	Reduced	349000	1745	19.87	21.00	1.297	0.07	1.370	1.777
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	Reduced	349000	1745	19.83	21.00	1.309	-0.01	1.410	1.846
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	Reduced	349000	1745	19.87	21.00	1.297	-0.04	1.300	1.686
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	Reduced	349000	1745	19.83	21.00	1.309	-0.04	1.250	1.636
	FR1 n66	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	Reduced	349000	1745	19.87	21.00	1.297	0.09	1.950	2.529
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	Reduced	349000	1745	19.83	21.00	1.309	0.04	2.020	2.645
	FR1 n66-NSA	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	Reduced	349000	1745	16.97	18.00	1.268	0.02	0.972	1.232
	FR1 n66	40M	QPSK	216	0	DFT-15	Top Side	0mm	Ant 1	Reduced	349000	1745	19.77	21.00	1.327	-0.08	1.790	2.376
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	6mm	Ant 1	Full Power	349000	1745	22.92	24.00	1.282	0.08	0.563	0.722
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	10mm	Ant 1	Full Power	349000	1745	22.95	24.00	1.274	-0.12	0.470	0.599
	FR1 n66	40M	QPSK	108	54	DFT-15	Top Side	11mm	Ant 1	Full Power	349000	1745	22.92	24.00	1.282	-0.04	0.430	0.551
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	Full Power	340500	1702.5	23.48	24.00	1.127	-0.16	1.960	2.209
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	0mm	Ant 0	Full Power	340500	1702.5	23.46	24.00	1.132	-0.13	2.230	2.525
	FR1 n70	15M	QPSK	75	0	DFT-15	Front	0mm	Ant 0	Full Power	340500	1702.5	22.50	23.00	1.122	-0.11	1.710	1.919
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	Full Power	340500	1702.5	23.48	24.00	1.127	0.14	2.550	2.874
103	FR1 n70	15M	QPSK	36	22	DFT-15	Back	0mm	Ant 0	Full Power	340500	1702.5	23.46	24.00	1.132	0.17	2.690	3.046
	FR1 n70-NSA	15M	QPSK	36	22	DFT-15	Back	0mm	Ant0	Reduced	340500	1702.5	20.56	21.00	1.107	0.13	1.280	1.416
	FR1 n70	15M	QPSK	75	0	DFT-15	Back	0mm	Ant 0	Full Power	340500	1702.5	22.50	23.00	1.122	-0.01	2.410	2.704
	FR1 n70	15M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	Full Power	340500	1702.5	23.48	24.00	1.127	0.05	1.970	2.221
	FR1 n70	15M	QPSK	36	22	DFT-15	Bottom Side	0mm	Ant 0	Full Power	340500	1702.5	23.46	24.00	1.132	-0.09	2.100	2.378
	FR1 n70	15M	QPSK	75	0	DFT-15	Bottom Side	0mm	Ant 0	Full Power	340500	1702.5	22.50	23.00	1.122	0.04	1.770	1.986
	FR1 n70	15M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	Reduced	340500	1702.5	19.79	21.00	1.321	0.14	0.927	1.225
	FR1 n70	15M	QPSK	36	22	DFT-15	Front	0mm	Ant 1	Reduced	340500	1702.5	19.73	21.00	1.340	0.13	0.963	1.290
	FR1 n70	15M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	Reduced	340500	1702.5	19.79	21.00	1.321	0.14	1.000	1.321
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	0mm	Ant 1	Reduced	340500	1702.5	19.73	21.00	1.340	0.13	1.060	1.420
	FR1 n70	15M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	Reduced	340500	1702.5	19.79	21.00	1.321	-0.17	1.710	2.259
	FR1 n70	15M	QPSK	36	22	DFT-15	Top Side	0mm	Ant 1	Reduced	340500	1702.5	19.73	21.00	1.340	-0.08	1.900	2.545
	FR1 n70-NSA	15M	QPSK	36	22	DFT-15	Top Side	0mm	Ant 1	Reduced	340500	1702.5	18.30	19.00	1.175	-0.06	1.140	1.339
	FR1 n70	15M	QPSK	75	0	DFT-15	Top Side	0mm	Ant 1	Reduced	340500	1702.5	19.71	21.00	1.346	-0.08	1.650	2.221





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	FR1 n70	15M	QPSK	36	22	DFT-15	Front	6mm	Ant 1	Full Power	340500	1702.5	22.66	24.00	1.361	0.01	0.503	0.685
	FR1 n70	15M	QPSK	36	22	DFT-15	Back	10mm	Ant 1	Full Power	340500	1702.5	22.66	24.00	1.361	0.05	0.421	0.573
	FR1 n70	15M	QPSK	36	22	DFT-15	Top Side	11mm	Ant 1	Full Power	340500	1702.5	22.66	24.00	1.361	-0.05	0.379	0.516

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	
<b>1900MHz</b>																			
104	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 0	Reduced	661	1880	23.83	24.50	1.167	-0.17	1.470	1.715	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	Reduced	661	1880	23.83	24.50	1.167	0.12	2.930	<b>3.419</b>	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	Reduced	512	1850.2	23.91	24.50	1.146	0.13	2.660	3.047	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	Reduced	810	1909.8	23.88	24.50	1.153	0.14	2.810	3.241	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	Reduced	661	1880	23.83	24.50	1.167	0.03	2.810	3.279	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	Reduced	512	1850.2	23.91	24.50	1.146	0.13	2.980	3.414	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	Reduced	810	1909.8	23.88	24.50	1.153	0.05	2.110	2.434	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	7mm	Ant 0	Full Power	661	1880	25.57	26.50	1.239	0.05	0.917	1.136	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	11mm	Ant 0	Full Power	661	1880	25.57	26.50	1.239	-0.04	0.801	0.992	
GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	11mm	Ant 0	Full Power	512	1850.2	25.56	26.50	1.242	-0.11	0.902	1.120		
105	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	Reduced	9400	1880	18.68	19.50	1.208	-0.07	1.930	2.331	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	Reduced	9262	1852.4	18.37	19.50	1.297	-0.17	1.820	2.361	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	Reduced	9538	1907.6	18.44	19.50	1.276	0.1	1.960	2.502	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	Reduced	9400	1880	18.68	19.50	1.208	-0.16	2.690	3.249	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	Reduced	9262	1852.4	18.37	19.50	1.297	0.07	2.560	3.321	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	Reduced	9538	1907.6	18.44	19.50	1.276	0.07	2.770	<b>3.536</b>	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	0mm	Ant 0	Full Power	9400	1880	23.37	24.00	1.156	-0.04	0.420	0.486	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	0mm	Ant 0	Full Power	9400	1880	23.37	24.00	1.156	0.18	0.410	0.474	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	Reduced	9400	1880	18.68	19.50	1.208	0.13	2.390	2.887	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	Reduced	9262	1852.4	18.37	19.50	1.297	-0.14	2.440	3.165	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	Reduced	9538	1907.6	18.44	19.50	1.276	0.18	2.390	3.051	
WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	7mm	Ant 0	Full Power	9538	1907.6	23.24	24.00	1.191	0.05	1.280	1.525		
WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	11mm	Ant 0	Full Power	9538	1907.6	23.24	24.00	1.191	-0.11	1.160	1.382		
WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	11mm	Ant 0	Full Power	9262	1852.4	23.12	24.00	1.225	0.02	1.520	1.861		
106	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 0	Reduced	26340	1880	19.69	20.50	1.205	0.08	2.140	2.579	
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 0	Reduced	26140	1860	19.53	20.50	1.250	0.13	2.050	2.563	
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 0	Reduced	26590	1905	19.42	20.50	1.282	-0.15	2.060	2.642	
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 0	Reduced	26340	1880	18.62	19.50	1.225	0.17	1.660	2.033	
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 0	Reduced	26140	1860	18.39	19.50	1.291	-0.1	1.620	2.092	
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 0	Reduced	26590	1905	18.37	19.50	1.297	0.02	1.660	2.153	
	LTE Band 25	20M	QPSK	100	0	-	Front	0mm	Ant 0	Reduced	26340	1880	18.45	19.50	1.274	0.03	1.660	2.114	
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	Reduced	26340	1880	19.69	20.50	1.205	0.06	2.790	<b>3.362</b>	
	LTE Band 25 -ENDC	20M	QPSK	1	0	-	Back	0mm	Ant0	Reduced	26340	1880	16.45	17.50	1.274	0.09	1.110	1.414	
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	Reduced	26140	1860	19.53	20.50	1.250	-0.14	2.600	3.251	
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 0	Reduced	26590	1905	19.42	20.50	1.282	-0.14	2.520	3.231	
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	Reduced	26340	1880	18.62	19.50	1.225	0.11	2.170	2.657	
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	Reduced	26140	1860	18.39	19.50	1.291	0.19	2.090	2.699	
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 0	Reduced	26590	1905	18.37	19.50	1.297	0.08	2.170	2.815	
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 0	Reduced	26340	1880	18.45	19.50	1.274	0.1	2.170	2.764	
	LTE Band 25	20M	QPSK	1	0	-	Left Side	0mm	Ant 0	Full Power	26340	1880	22.91	24.00	1.285	0.13	0.524	0.673	
	LTE Band 25	20M	QPSK	50	0	-	Left Side	0mm	Ant 0	Full Power	26340	1880	21.99	23.00	1.262	-0.11	0.464	0.585	
	LTE Band 25	20M	QPSK	1	0	-	Right Side	0mm	Ant 0	Full Power	26340	1880	22.91	24.00	1.285	0.03	0.529	0.680	
	LTE Band 25	20M	QPSK	50	0	-	Right Side	0mm	Ant 0	Full Power	26340	1880	21.99	23.00	1.262	-0.14	0.419	0.529	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	Reduced	26340	1880	19.69	20.50	1.205	0.12	2.360	2.844	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	Reduced	26140	1860	19.53	20.50	1.250	-0.01	2.370	2.963	
LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	Reduced	26590	1905	19.42	20.50	1.282	-0.12	2.240	2.872		
LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	Reduced	26340	1880	18.62	19.50	1.225	0.12	1.920	2.351		



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	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	Reduced	26140	1860	18.39	19.50	1.291	-0.09	1.920	2.479
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	Reduced	26590	1905	18.37	19.50	1.297	-0.1	1.790	2.322
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 0	Reduced	26340	1880	18.45	19.50	1.274	-0.09	2.010	2.560
	LTE Band 25	20M	QPSK	1	0	-	Front	7mm	Ant 0	Full Power	26590	1905	22.84	24.00	1.306	-0.11	0.879	1.148
	LTE Band 25	20M	QPSK	1	0	-	Back	11mm	Ant 0	Full Power	26340	1880	22.91	24.00	1.285	0.05	0.770	0.990
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 0	Full Power	26140	1860	22.85	24.00	1.303	0.01	1.030	1.342
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	Reduced	26340	1880	20.11	21.00	1.227	-0.17	1.500	1.841
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	Reduced	26340	1880	19.07	20.00	1.239	-0.03	1.190	1.474
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	Reduced	26340	1880	20.11	21.00	1.227	-0.19	1.520	1.866
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	Reduced	26340	1880	19.07	20.00	1.239	0.08	1.520	1.883
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	Reduced	26340	1880	20.11	21.00	1.227	0.14	1.820	2.234
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	Reduced	26140	1860	20.01	21.00	1.256	0.08	1.690	2.123
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	Reduced	26590	1905	19.85	21.00	1.303	0.15	1.990	2.593
	LTE Band 25 -ENDC	20M	QPSK	1	0	-	Top Side	0mm	Ant 1	Reduced	26590	1905	16.30	18.00	1.479	0.15	0.993	1.469
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	Reduced	26340	1880	19.07	20.00	1.239	0.13	1.760	2.180
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	Reduced	26140	1860	18.95	20.00	1.274	-0.08	1.680	2.139
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 1	Reduced	26590	1905	18.82	20.00	1.312	0.13	1.700	2.231
	LTE Band 25	20M	QPSK	100	0	-	Top Side	0mm	Ant 1	Reduced	26340	1880	19.06	20.00	1.242	0.15	1.730	2.148
	LTE Band 25	20M	QPSK	1	0	-	Front	6mm	Ant 1	Full Power	26340	1880	22.52	24.00	1.406	0.02	0.640	0.900
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 1	Full Power	26340	1880	21.55	23.00	1.396	0.04	0.584	0.815
	LTE Band 25	20M	QPSK	1	0	-	Top Side	11mm	Ant 1	Full Power	26590	1905	22.32	24.00	1.472	-0.01	0.502	0.739
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	Reduced	376500	1882.5	20.46	21.00	1.132	0.06	1.450	1.642
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	Reduced	376500	1882.5	20.44	21.00	1.138	0.14	2.210	2.514
	FR1 n25	40M	QPSK	216	0	DFT-15	Front	0mm	Ant 0	Reduced	376500	1882.5	20.34	21.00	1.164	0.11	1.570	1.828
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	Reduced	376500	1882.5	20.46	21.00	1.132	-0.01	2.330	2.638
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	Reduced	376500	1882.5	20.44	21.00	1.138	-0.07	2.800	3.185
	FR1 n25	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 0	Reduced	376500	1882.5	20.34	21.00	1.164	0.1	2.290	2.666
	FR1 n25	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	Reduced	376500	1882.5	20.46	21.00	1.132	0.12	2.810	3.182
107	FR1 n25	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	Reduced	376500	1882.5	20.44	21.00	1.138	0.17	3.070	3.493
	FR1 n25-NSA	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant0	Reduced	376500	1882.5	15.86	16.50	1.159	-0.16	1.220	1.414
	FR1 n25	40M	QPSK	216	0	DFT-15	Bottom Side	0mm	Ant 0	Reduced	376500	1882.5	20.34	21.00	1.164	-0.15	2.510	2.922
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	7mm	Ant 0	Full Power	376500	1882.5	23.43	24.00	1.140	-0.11	0.602	0.686
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	11mm	Ant 0	Full Power	376500	1882.5	23.43	24.00	1.140	-0.05	0.508	0.579
	FR1 n25	40M	QPSK	108	54	DFT-15	Bottom Side	11mm	Ant 0	Full Power	376500	1882.5	23.43	24.00	1.140	0.08	0.777	0.886
	FR1 n25	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	Reduced	376500	1882.5	18.52	19.00	1.117	0.09	0.891	0.995
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	Reduced	376500	1882.5	18.37	19.00	1.156	-0.01	0.878	1.015
	FR1 n25	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	Reduced	376500	1882.5	18.52	19.00	1.117	-0.18	1.090	1.217
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	Reduced	376500	1882.5	18.37	19.00	1.156	-0.11	1.110	1.283
	FR1 n25	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	Reduced	376500	1882.5	18.52	19.00	1.117	0.04	1.890	2.111
	FR1 n25-NSA	40M	QPSK	1	1	DFT-15	Top Side	0mm	Ant 1	Reduced	376500	1882.5	16.22	17.00	1.197	-0.16	1.120	1.340
	FR1 n25	40M	QPSK	108	54	DFT-15	Top Side	0mm	Ant 1	Reduced	376500	1882.5	18.37	19.00	1.156	0.11	1.820	2.104
	FR1 n25	40M	QPSK	216	0	DFT-15	Top Side	0mm	Ant 1	Reduced	376500	1882.5	18.32	19.00	1.169	-0.15	1.440	1.684
	FR1 n25	40M	QPSK	108	54	DFT-15	Front	6mm	Ant 1	Full Power	376500	1882.5	23.00	24.00	1.259	0.02	0.610	0.768
	FR1 n25	40M	QPSK	108	54	DFT-15	Back	10mm	Ant 1	Full Power	376500	1882.5	23.00	24.00	1.259	-0.13	0.519	0.653
	FR1 n25	40M	QPSK	1	1	DFT-15	Top Side	11mm	Ant 1	Full Power	376500	1882.5	23.05	24.00	1.245	0.04	0.554	0.689
<b>2300MHz</b>																		
	LTE Band 30	10M	QPSK	1	0	-	Front	0mm	Ant 6	Full Power	27710	2310	23.19	24.00	1.205	-0.17	2.490	3.001
	LTE Band 30	10M	QPSK	25	0	-	Front	0mm	Ant 6	Full Power	27710	2310	22.15	23.00	1.216	-0.13	2.180	2.651
	LTE Band 30	10M	QPSK	50	0	-	Front	0mm	Ant 6	Full Power	27710	2310	22.08	23.00	1.236	-0.01	2.100	2.595
108	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 6	Full Power	27710	2310	23.19	24.00	1.205	0.08	2.970	3.579
	LTE Band 30 -ENDC	10M	QPSK	1	0	-	Back	0mm	Ant6	Reduced	27710	2310	18.72	20.00	1.343	0.08	1.110	1.490
	LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 6	Full Power	27710	2310	22.15	23.00	1.216	0.18	2.690	3.272
	LTE Band 30	10M	QPSK	50	0	-	Back	0mm	Ant 6	Full Power	27710	2310	22.08	23.00	1.236	0.17	2.610	3.226
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 6	Full Power	27710	2310	23.19	24.00	1.205	0.1	2.180	2.627





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	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 6	Full Power	27710	2310	22.15	23.00	1.216	0.16	1.810	2.201
	LTE Band 30	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 6	Full Power	27710	2310	22.08	23.00	1.236	0.13	1.650	2.039
	LTE Band 30	10M	QPSK	1	0	-	Back	8mm	Ant 6	Full Power	27710	2310	23.19	24.00	1.205	0.04	0.319	0.384
	FR1 n30	10M	QPSK	1	1	DFT-15	Front	0mm	Ant 6	Full Power	462000	2310	23.73	24.00	1.064	0.1	2.300	2.448
	FR1 n30	10M	QPSK	25	14	DFT-15	Front	0mm	Ant 6	Full Power	462000	2310	23.63	24.00	1.089	0.1	2.720	2.962
	FR1 n30	10M	QPSK	50	0	DFT-15	Front	0mm	Ant 6	Full Power	462000	2310	22.56	23.00	1.107	-0.19	2.120	2.346
	FR1 n30	10M	QPSK	1	1	DFT-15	Back	0mm	Ant 6	Full Power	462000	2310	23.73	24.00	1.064	0.08	2.850	3.033
109	FR1 n30	10M	QPSK	25	14	DFT-15	Back	0mm	Ant 6	Full Power	462000	2310	23.63	24.00	1.089	-0.05	3.040	<b>3.310</b>
	FR1 n30-NSA	10M	QPSK	25	14	DFT-15	Back	0mm	Ant6	Reduced	462000	2310	19.70	20.00	1.072	0.04	1.180	1.264
	FR1 n30	10M	QPSK	50	0	DFT-15	Back	0mm	Ant 6	Full Power	462000	2310	22.56	23.00	1.107	0.13	2.240	2.479
	FR1 n30	10M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 6	Full Power	462000	2310	23.73	24.00	1.064	-0.15	2.020	2.150
	FR1 n30	10M	QPSK	25	14	DFT-15	Bottom Side	0mm	Ant 6	Full Power	462000	2310	23.63	24.00	1.089	0.11	1.910	2.080
	FR1 n30	10M	QPSK	50	0	DFT-15	Bottom Side	0mm	Ant 6	Full Power	462000	2310	22.56	23.00	1.107	0.19	1.700	1.881
	FR1 n30	10M	QPSK	25	14	DFT-15	Back	8mm	Ant 6	Full Power	462000	2310	23.63	24.00	1.089	0.04	0.368	0.401

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
										<b>2600MHz</b>										
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 6	Reduced	21100	2535	18.45	19.50	1.274	-	-	0.07	1.480	1.885
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 6	Reduced	21100	2535	18.42	19.50	1.282	-	-	0.18	1.630	2.090
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 6	Reduced	20850	2510	18.20	19.50	1.349	-	-	-0.15	1.520	2.050
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 6	Reduced	21350	2560	18.20	19.50	1.349	-	-	0.07	1.790	2.415
	LTE Band 7	20M	QPSK	100	0	-	Front	0mm	Ant 6	Reduced	21100	2535	18.40	19.50	1.288	-	-	-0.06	1.620	2.087
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 6	Reduced	21100	2535	18.45	19.50	1.274	-	-	-0.04	1.990	2.534
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 6	Reduced	20850	2510	18.26	19.50	1.330	-	-	-0.09	1.650	2.195
110	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 6	Reduced	21350	2560	18.33	19.50	1.309	-	-	-0.17	2.300	<b>3.011</b>
	LTE Band 7 -ENDC	20M	QPSK	1	0	-	Back	0mm	Ant6	Reduced	21350	2560	14.78	16.00	1.324	-	-	0.14	1.100	1.457
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 6	Reduced	21100	2535	18.42	19.50	1.282	-	-	-0.1	1.790	2.295
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 6	Reduced	20850	2510	18.20	19.50	1.349	-	-	-0.16	1.620	2.185
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 6	Reduced	21350	2560	18.20	19.50	1.349	-	-	0.19	2.010	2.711
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 6	Reduced	21100	2535	18.40	19.50	1.288	-	-	0.13	1.800	2.319
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 6	Reduced	21100	2535	18.45	19.50	1.274	-	-	0.04	1.480	1.885
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 6	Reduced	21100	2535	18.42	19.50	1.282	-	-	-0.05	1.220	1.564
	LTE Band 7	20M	QPSK	50	0	-	Front	4mm	Ant 6	Full Power	21350	2560	21.68	23.00	1.355	-	-	0.05	0.919	1.245
	LTE Band 7	20M	QPSK	1	0	-	Back	8mm	Ant 6	Full Power	21350	2560	22.78	24.00	1.324	-	-	-0.06	0.442	0.585
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	7mm	Ant 6	Full Power	21100	2535	22.86	24.00	1.300	-	-	-0.01	0.461	0.599
111	FR1 n7-NSA	50M	QPSK	1	1	DFT-15	Back	0mm	Ant8	Full Power	507000	2535	23.04	24.00	1.247	-	-	0.01	1.170	<b>1.459</b>
	FR1 n7-NSA	50M	QPSK	135	68	DFT-15	Back	0mm	Ant8	Full Power	507000	2535	22.88	24.00	1.294	-	-	-0.03	0.768	0.994
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 6	Full Power	40620	2593	23.19	24.00	1.205	62.9	1.006	-0.05	0.994	1.205
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 6	Full Power	39750	2506	23.08	24.00	1.236	62.9	1.006	0.01	1.200	1.492
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 6	Full Power	40185	2549.5	23.18	24.00	1.208	62.9	1.006	-0.02	0.901	1.095
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 6	Full Power	41055	2636.5	22.93	24.00	1.279	62.9	1.006	-0.01	0.907	1.167
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 6	Full Power	41490	2680	23.00	24.00	1.259	62.9	1.006	-0.04	1.070	1.355
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 6	Full Power	40620	2593	21.95	23.00	1.274	62.9	1.006	-0.09	1.460	1.870
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 6	Full Power	39750	2506	21.84	23.00	1.306	62.9	1.006	0.04	1.250	1.643
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 6	Full Power	40185	2549.5	21.76	23.00	1.330	62.9	1.006	0.03	1.320	1.767
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 6	Full Power	41055	2636.5	21.77	23.00	1.327	62.9	1.006	0.03	1.250	1.669
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 6	Full Power	41490	2680	21.88	23.00	1.294	62.9	1.006	0.02	1.120	1.458
	LTE Band 41	20M	QPSK	100	0	-	Front	0mm	Ant 6	Full Power	40620	2593	21.89	23.00	1.291	62.9	1.006	0.04	1.410	1.832
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 6	Full Power	40620	2593	23.19	24.00	1.205	62.9	1.006	-0.02	1.160	1.406
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 6	Full Power	39750	2506	23.08	24.00	1.236	62.9	1.006	-0.01	1.450	1.803
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 6	Full Power	40185	2549.5	23.18	24.00	1.208	62.9	1.006	-0.04	1.120	1.361
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 6	Full Power	41055	2636.5	22.93	24.00	1.279	62.9	1.006	0.03	1.110	1.429



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	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 6	Full Power	41490	2680	23.00	24.00	1.259	62.9	1.006	0.03	1.330	1.684
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 6	Full Power	40620	2593	21.95	23.00	1.274	62.9	1.006	0.01	1.750	2.242
	LTE Band 41C	20M	QPSK	1	99	-	Back	0mm	Ant 6	Full Power	40620+ 40818	2593+ 2612.8	22.45	24.00	1.429	62.9	1.006	0.01	1.460	2.099
	LTE Band 41C	20M	QPSK	1	99		Back	0mm	Ant 6	Full Power	39750+ 39948	2506+ 2525.8	22.37	24.00	1.455	62.9	1.006	0.06	1.380	2.021
	LTE Band 41C	20M	QPSK	1	99		Back	0mm	Ant 6	Full Power	40185+ 40383	2549.5+ 2569.3	22.25	24.00	1.496	62.9	1.006	0.17	1.420	2.137
	LTE Band 41C	20M	QPSK	1	99		Back	0mm	Ant 6	Full Power	41055+ 41253	2636.5+ 2656.3	22.34	24.00	1.466	62.9	1.006	0.09	1.430	2.108
	LTE Band 41C	20M	QPSK	1	0		Back	0mm	Ant 6	Full Power	41490+ 41292	2680+ 2660.2	22.69	24.00	1.352	62.9	1.006	0.05	1.390	1.891
112	LTE Band 41 _HPUE	20M	QPSK	50	0	-	Back	0mm	Ant 6	Full Power	40620	2593	24.95	26.00	1.274	62.9	1.006	-0.13	2.470	<b>3.164</b>
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 6	Full Power	39750	2506	21.84	23.00	1.306	62.9	1.006	0.01	1.490	1.958
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 6	Full Power	40185	2549.5	21.76	23.00	1.330	62.9	1.006	0.02	1.670	2.235
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 6	Full Power	41055	2636.5	21.77	23.00	1.327	62.9	1.006	0.04	1.560	2.083
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 6	Full Power	41490	2680	21.88	23.00	1.294	62.9	1.006	-0.06	1.300	1.693
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 6	Full Power	40620	2593	21.89	23.00	1.291	62.9	1.006	0.05	0.900	1.169
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 6	Full Power	40620	2593	23.19	24.00	1.205	62.9	1.006	0.07	1.580	1.915
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 6	Full Power	39750	2506	23.08	24.00	1.236	62.9	1.006	0.02	1.350	1.679
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 6	Full Power	40185	2549.5	23.18	24.00	1.208	62.9	1.006	-0.09	1.410	1.713
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 6	Full Power	41055	2636.5	22.93	24.00	1.279	62.9	1.006	0.04	1.400	1.802
	LTE Band 41	20M	QPSK	1	0	-	Left Side	0mm	Ant 6	Full Power	41490	2680	23.00	24.00	1.259	62.9	1.006	0.01	1.440	1.824
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 6	Full Power	40620	2593	21.95	23.00	1.274	62.9	1.006	-0.09	1.460	1.870
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 6	Full Power	39750	2506	21.84	23.00	1.306	62.9	1.006	-0.08	1.270	1.669
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 6	Full Power	40185	2549.5	21.76	23.00	1.330	62.9	1.006	0.09	1.380	1.847
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 6	Full Power	41055	2636.5	21.77	23.00	1.327	62.9	1.006	0.17	1.320	1.763
	LTE Band 41	20M	QPSK	50	0	-	Left Side	0mm	Ant 6	Full Power	41490	2680	21.88	23.00	1.294	62.9	1.006	0.05	1.400	1.823
	LTE Band 41	20M	QPSK	100	0	-	Left Side	0mm	Ant 6	Full Power	40620	2593	21.89	23.00	1.291	62.9	1.006	0.03	1.320	1.715
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 6	Full Power	40620	2593	23.19	24.00	1.205	62.9	1.006	0.09	0.789	0.956
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 6	Full Power	39750	2506	23.08	24.00	1.236	62.9	1.006	0.07	1.060	1.318
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 6	Full Power	40185	2549.5	23.18	24.00	1.208	62.9	1.006	0.05	0.876	1.064
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 6	Full Power	41055	2636.5	22.93	24.00	1.279	62.9	1.006	0.07	0.735	0.946
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 6	Full Power	41490	2680	23.00	24.00	1.259	62.9	1.006	-0.11	0.850	1.077
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 6	Full Power	40620	2593	21.95	23.00	1.274	62.9	1.006	0.04	1.190	1.525
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 6	Full Power	39750	2506	21.84	23.00	1.306	62.9	1.006	0.01	1.180	1.551
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 6	Full Power	40185	2549.5	21.76	23.00	1.330	62.9	1.006	0.03	1.270	1.700
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 6	Full Power	41055	2636.5	21.77	23.00	1.327	62.9	1.006	0.01	0.976	1.303
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 6	Full Power	41490	2680	21.88	23.00	1.294	62.9	1.006	0.07	0.706	0.919
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 6	Full Power	40620	2593	21.89	23.00	1.291	62.9	1.006	0.06	1.160	1.507
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 8	Full Power	40620	2593	21.16	22.60	1.393	62.9	1.006	-0.11	0.518	0.726
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 8	Full Power	39750	2506	20.89	22.60	1.483	62.9	1.006	-0.09	0.720	1.074
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 8	Full Power	40185	2549.5	20.79	22.60	1.517	62.9	1.006	0.06	0.531	0.810
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 8	Full Power	41055	2636.5	20.85	22.60	1.496	62.9	1.006	0.08	0.539	0.811
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 8	Full Power	41490	2680	20.92	22.60	1.472	62.9	1.006	-0.01	0.638	0.945
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 8	Full Power	40620	2593	20.66	21.60	1.242	62.9	1.006	0.07	0.725	0.906
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 8	Full Power	39750	2506	20.59	21.60	1.262	62.9	1.006	0.1	0.906	1.150
	LTE Band 41 _HPUE	20M	QPSK	50	0	-	Back	0mm	Ant 8	Full Power	39750	2506	23.35	24.50	1.303	42.9	1.009	0.08	1.240	1.630
	LTE Band 41C	20M	QPSK	1	99	-	Back	0mm	Ant 8	Full Power	39750+ 39948	2506+ 2525.8	21.23	22.60	1.371	62.9	1.006	-0.04	0.826	1.139
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 8	Full Power	40185	2549.5	20.57	21.60	1.268	62.9	1.006	0.04	0.671	0.856
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 8	Full Power	41055	2636.5	20.60	21.60	1.259	62.9	1.006	0.06	0.631	0.799
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 8	Full Power	41490	2680	20.52	21.60	1.282	62.9	1.006	0.1	0.610	0.787
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 8	Full Power	40620	2593	20.54	21.60	1.276	62.9	1.006	0.09	0.703	0.903
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 5	Reduced	518598	2592.99	19.90	21.00	1.288	-	-	0.11	1.410	1.816
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 5	Reduced	518598	2592.99	19.83	21.00	1.309	-	-	-0.09	1.420	1.859
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 5	Reduced	518598	2592.99	19.78	21.00	1.324	-	-	0.13	1.340	1.775
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	Reduced	518598	2592.99	19.90	21.00	1.288	-	-	-0.07	1.740	2.242



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	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	Reduced	518598	2592.99	19.83	21.00	1.309	-	-	-0.05	1.810	2.370
	FR1 n41 UL MIMO	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	Reduced	518598	2592.99	16.66	18.00	1.361	-	-	-0.16	1.020	1.389
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 5	Reduced	518598	2592.99	19.78	21.00	1.324	-	-	0.03	1.740	2.304
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 5	Reduced	518598	2592.99	19.90	21.00	1.288	-	-	0.18	1.820	2.345
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 5	Reduced	518598	2592.99	19.83	21.00	1.309	-	-	0.17	1.980	2.592
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 5	Reduced	518598	2592.99	19.78	21.00	1.324	-	-	0.14	1.850	2.450
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 6	Reduced	518598	2592.99	23.95	24.50	1.135	-	-	0.04	2.100	2.384
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 6	Reduced	518598	2592.99	23.89	24.50	1.151	-	-	0.17	2.280	2.624
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 6	Reduced	518598	2592.99	23.78	24.50	1.180	-	-	0.05	2.320	2.738
113	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 6	Reduced	518598	2592.99	23.95	24.50	1.135	-	-	0.02	2.790	<b>3.167</b>
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 6	Reduced	518598	2592.99	20.07	20.50	1.104	-	-	-0.06	1.160	1.281
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 6	Reduced	518598	2592.99	23.89	24.50	1.151	-	-	0.01	2.380	2.739
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 6	Reduced	518598	2592.99	23.78	24.50	1.180	-	-	-0.18	2.100	2.479
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Bottom Side	0mm	Ant 6	Reduced	518598	2592.99	23.95	24.50	1.135	-	-	0.08	2.550	2.894
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Bottom Side	0mm	Ant 6	Reduced	518598	2592.99	23.89	24.50	1.151	-	-	0.15	1.810	2.083
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Bottom Side	0mm	Ant 6	Reduced	518598	2592.99	23.78	24.50	1.180	-	-	0.1	2.180	2.573
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	4mm	Ant 6	Full Power	518598	2592.99	26.51	27.00	1.119	-	-	-0.02	1.100	1.231
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Front	4mm	Ant 6	Full Power	518598	2592.99	25.49	26.00	1.125	-	-	-0.09	1.260	1.417
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	8mm	Ant 6	Full Power	518598	2592.99	26.51	27.00	1.119	-	-	0.01	0.771	0.863
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Bottom Side	7mm	Ant 6	Full Power	518598	2592.99	26.51	27.00	1.119	-	-	0.08	0.858	0.960
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 7	Full Power	518598	2592.99	24.79	25.80	1.262	-	-	0.08	0.784	0.989
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 7	Full Power	518598	2592.99	24.75	25.80	1.274	-	-	0.01	0.892	1.136
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 7	Full Power	518598	2592.99	24.79	25.80	1.262	-	-	0.04	1.090	1.375
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 7	Full Power	518598	2592.99	24.75	25.80	1.274	-	-	0.01	1.220	1.554
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 7	Full Power	518598	2592.99	24.79	25.80	1.262	-	-	-0.14	1.770	2.233
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 7	Full Power	518598	2592.99	24.75	25.80	1.274	-	-	0.03	2.090	2.662
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Right Side	0mm	Ant 7	Full Power	518598	2592.99	23.46	24.80	1.361	-	-	-0.09	1.420	1.933
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	Full Power	518598	2592.99	24.60	25.80	1.318	-	-	-0.11	1.510	1.991
	FR1 n41 HPUE NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	Reduced	518598	2592.99	22.18	23.30	1.294	-	-	-0.01	1.030	1.333
	FR1 n41 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	Full Power	518598	2592.99	24.53	25.80	1.340	-	-	0.06	1.270	1.701
	FR1 n41 HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 8	Full Power	518598	2592.99	23.29	24.80	1.416	-	-	-0.19	1.340	1.897
	FR1 n41 HPUE	100M	QPSK	1	1	DFT-30	Back	8mm	Ant 8	Full Power	518598	2592.99	24.60	25.80	1.318	-	-	-0.11	0.781	1.030

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
<b>3500MHz-3900MHz</b>																				
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 3	Reduced	55830	3609	21.74	22.50	1.191	62.9	1.006	-0.06	1.590	1.905
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 3	Reduced	55340	3560	21.50	22.50	1.259	62.9	1.006	-0.15	1.580	2.001
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 3	Reduced	56150	3641	21.65	22.50	1.216	62.9	1.006	-0.12	1.670	2.043
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 3	Reduced	56640	3690	21.48	22.50	1.265	62.9	1.006	0.08	1.790	2.277
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 3	Reduced	55830	3609	20.88	21.50	1.153	62.9	1.006	-0.18	1.640	1.903
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 3	Reduced	55340	3560	20.58	21.50	1.236	62.9	1.006	-0.13	1.600	1.989
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 3	Reduced	56150	3641	20.54	21.50	1.247	62.9	1.006	0.1	1.720	2.158
114	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 3	Reduced	56640	3690	20.69	21.50	1.205	62.9	1.006	-0.13	1.890	<b>2.291</b>
	LTE Band 48-ENDC	20M	QPSK	50	0	-	Back	0mm	Ant3	Reduced	56640	3690	19.19	20.00	1.205	62.9	1.006	0.02	1.190	1.443
	LTE Band 48C	20M	QPSK	1	0	-	Back	0mm	Ant 3	Reduced	56640 +56442	3690 +3670.2	21.39	22.50	1.291	62.9	1.006	0.06	1.657	2.152
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 3	Reduced	55830	3609	20.73	21.50	1.194	62.9	1.006	0.01	1.280	1.537
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	Reduced	55830	3609	21.74	22.50	1.191	62.9	1.006	-0.15	1.330	1.594
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	Reduced	55830	3609	20.88	21.50	1.153	62.9	1.006	-0.05	1.090	1.265
	LTE Band 48	20M	QPSK	50	0	-	Back	4mm	Ant 3	Full Power	56640	3690	22.25	23.00	1.189	62.9	1.006	0.06	1.500	1.793
	LTE Band 48	20M	QPSK	1	0	-	Left Side	3mm	Ant 3	Full Power	55830	3609	23.27	24.00	1.183	62.9	1.006	-0.08	0.720	0.857
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 4	Reduced	55830	3609	21.52	22.20	1.169	62.9	1.006	-0.19	1.610	1.894
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 4	Reduced	55340	3560	21.49	22.20	1.178	62.9	1.006	-0.09	1.680	1.990

**Sporton International Inc. (Kunshan)**

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FCC ID : IHDT56AE7

Issued Date : Jul. 14, 2022

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**FCC SAR Test Report**

**Report No. : FA240834**

	LTE Band 48-ENDC	20M	QPSK	1	0	-	Back	0mm	Ant4	Reduced	55340	3560	18.96	19.70	1.186	62.9	1.006	0.05	0.916	1.093
	LTE Band 48C	20M	QPSK	1	99	-	Back	0mm	Ant 4	Reduced	55340 +55538	3560 +3579.8	21.37	22.20	1.211	62.9	1.006	0.06	1.507	1.835
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 4	Reduced	56150	3641	21.39	22.20	1.205	62.9	1.006	-0.19	1.610	1.952
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 4	Reduced	56640	3690	21.33	22.20	1.222	62.9	1.006	0.15	1.570	1.930
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 4	Reduced	55830	3609	20.45	21.20	1.189	62.9	1.006	-0.03	1.320	1.578
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 4	Reduced	55340	3560	20.41	21.20	1.199	62.9	1.006	-0.12	1.350	1.629
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 4	Reduced	56150	3641	20.41	21.20	1.199	62.9	1.006	-0.11	1.280	1.545
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 4	Reduced	56640	3690	20.22	21.20	1.253	62.9	1.006	-0.01	1.260	1.588
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 4	Reduced	55830	3609	20.44	21.20	1.191	62.9	1.006	-0.13	1.290	1.546
	LTE Band 48	20M	QPSK	1	0	-	Back	3mm	Ant 4	Full Power	55340	3560	22.45	23.20	1.189	62.9	1.006	0.02	1.600	1.913
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 5	Reduced	55830	3609	20.34	20.90	1.138	62.9	1.006	-0.06	1.830	2.094
	LTE Band 48-ENDC	20M	QPSK	1	0	-	Back	0mm	Ant5	Reduced	55830	3609	17.84	18.40	1.138	62.9	1.006	-0.08	1.010	1.156
	LTE Band 48C	20M	QPSK	1	99	-	Back	0mm	Ant 5	Reduced	55830 +56028	3609 +3628.8	20.29	20.90	1.151	62.9	1.006	-0.05	1.730	2.003
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 5	Reduced	55340	3560	20.20	20.90	1.175	62.9	1.006	-0.11	1.380	1.631
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 5	Reduced	56150	3641	20.11	20.90	1.199	62.9	1.006	-0.12	1.520	1.834
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 5	Reduced	56640	3690	20.08	20.90	1.208	62.9	1.006	-0.14	1.630	1.981
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 5	Reduced	55830	3609	19.35	19.90	1.135	62.9	1.006	0.01	1.440	1.644
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 5	Reduced	55340	3560	19.17	19.90	1.183	62.9	1.006	0.03	1.120	1.333
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 5	Reduced	56150	3641	19.19	19.90	1.178	62.9	1.006	-0.15	1.490	1.765
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 5	Reduced	56640	3690	19.24	19.90	1.164	62.9	1.006	-0.09	1.280	1.499
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 5	Reduced	55830	3609	19.20	19.90	1.175	62.9	1.006	-0.11	1.270	1.501
	LTE Band 48	20M	QPSK	1	0	-	Back	3mm	Ant 5	Full Power	55830	3609	21.24	21.90	1.164	62.9	1.006	0.03	0.997	1.168
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	Reduced	55830	3609	18.03	19.30	1.340	62.9	1.006	0.12	1.280	1.725
	LTE Band 48-ENDC	20M	QPSK	1	0	-	Back	0mm	Ant8	Reduced	55340	3560	15.44	16.80	1.368	62.9	1.006	0.05	0.801	1.102
	LTE Band 48C	20M	QPSK	1	99	-	Back	0mm	Ant 8	Reduced	55340 +55538	3560 +3579.8	17.75	19.30	1.429	62.9	1.006	0.06	1.150	1.653
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	Reduced	55340	3560	17.86	19.30	1.393	62.9	1.006	0.03	1.220	1.710
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	Reduced	56150	3641	17.81	19.30	1.409	62.9	1.006	0.02	1.150	1.630
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 8	Reduced	56640	3690	17.72	19.30	1.439	62.9	1.006	-0.05	1.190	1.722
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 8	Reduced	55830	3609	17.03	18.30	1.340	62.9	1.006	-0.15	0.947	1.276
	LTE Band 48	20M	QPSK	1	0	-	Back	8mm	Ant 8	Full Power	55830	3560	20.88	22.30	1.387	62.9	1.006	0.01	0.715	0.997
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	Reduced	641666	3624.99	20.16	21.50	1.361	-	-	0.19	1.410	1.920
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	Reduced	638000	3570	20.05	21.50	1.396	-	-	0.02	1.060	1.480
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	Reduced	645332	3679.98	20.08	21.50	1.387	-	-	-0.15	1.260	1.747
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 3	Reduced	641666	3624.99	20.12	21.50	1.374	-	-	-0.11	1.800	2.473
	FR1 n48-NSA	40M	QPSK	50	28	DFT-30	Back	0mm	Ant3	Reduced	641666	3624.99	17.49	18.50	1.262	-	-	-0.07	1.000	1.262
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 3	Reduced	638000	3570	19.92	21.50	1.439	-	-	0.14	1.550	2.230
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 3	Reduced	645332	3679.98	20.01	21.50	1.409	-	-	-0.12	1.640	2.311
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	0mm	Ant 3	Reduced	641666	3624.99	20.06	21.50	1.393	-	-	0.09	1.290	1.797
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	Reduced	641666	3624.99	20.16	21.50	1.361	-	-	0.18	0.809	1.101
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	0mm	Ant 3	Reduced	641666	3624.99	20.12	21.50	1.374	-	-	-0.03	0.893	1.227
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	4mm	Ant 3	Full Power	641666	3624.99	22.53	24.00	1.403	-	-	0.05	0.633	0.888
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Side	3mm	Ant 3	Full Power	641666	3624.99	22.53	24.00	1.403	-	-	0.09	0.285	0.400
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	Reduced	641666	3624.99	20.78	22.20	1.387	-	-	0.01	1.790	2.482
	FR1 n48-NSA	40M	QPSK	1	1	DFT-30	Back	0mm	Ant4	Reduced	641666	3624.99	18.48	19.70	1.324	-	-	-0.02	1.080	1.430
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	Reduced	638000	3570	20.64	22.20	1.432	-	-	-0.01	1.580	2.263
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	Reduced	645332	3679.98	20.60	22.20	1.445	-	-	-0.03	1.570	2.269
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 4	Reduced	641666	3624.99	20.67	22.20	1.422	-	-	0.01	1.680	2.390
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 4	Reduced	638000	3570	20.51	22.20	1.476	-	-	-0.12	1.440	2.125
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 4	Reduced	645332	3679.98	20.69	22.20	1.416	-	-	-0.01	1.470	2.081
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	0mm	Ant 4	Reduced	641666	3624.99	20.58	22.20	1.452	-	-	-0.16	1.530	2.222
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	3mm	Ant 4	Full Power	641666	3624.99	22.00	23.70	1.479	-	-	0.06	1.810	2.677
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	3mm	Ant 4	Full Power	641666	3624.99	21.99	23.70	1.483	-	-	0.11	1.780	2.639
115	FR1 n48	40M	QPSK	100	0	DFT-30	Back	3mm	Ant 4	Full Power	641666	3624.99	20.82	22.70	1.542	-	-	-0.03	1.820	<b>2.806</b>
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	Reduced	641666	3624.99	20.15	21.50	1.365	-	-	-0.02	1.880	2.565





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	FR1 n48-NSA	40M	QPSK	1	1	DFT-30	Back	0mm	Ant5	Reduced	641666	3624.99	17.31	18.50	1.315	-	-	-0.02	0.841	1.106
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	Reduced	638000	3570	20.04	21.50	1.400	-	-	-0.12	1.740	2.435
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	Reduced	645332	3679.98	20.05	21.50	1.396	-	-	-0.15	1.760	2.458
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 5	Reduced	641666	3624.99	20.11	21.50	1.377	-	-	0.1	1.820	2.507
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 5	Reduced	638000	3570	19.89	21.50	1.449	-	-	-0.14	1.710	2.477
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 5	Reduced	645332	3679.98	20.01	21.50	1.409	-	-	-0.14	1.700	2.396
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	0mm	Ant 5	Reduced	641666	3624.99	20.08	21.50	1.387	-	-	-0.14	1.420	1.969
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	3mm	Ant 5	Full Power	641666	3624.99	22.71	24.00	1.346	-	-	0.05	0.574	0.773
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	Reduced	641666	3624.99	18.01	19.60	1.442	-	-	-0.05	1.700	2.452
	FR1 n48 NSA	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	Reduced	641666	3624.99	15.42	17.10	1.472	-	-	-0.04	0.989	1.456
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	Reduced	638000	3570	17.58	19.60	1.592	-	-	-0.03	1.480	2.356
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	Reduced	645332	3679.98	17.72	19.60	1.542	-	-	0.06	1.520	2.343
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 8	Reduced	641666	3624.99	17.93	19.60	1.469	-	-	-0.06	1.580	2.321
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 8	Reduced	638000	3570	17.48	19.60	1.629	-	-	-0.03	1.370	2.232
	FR1 n48	40M	QPSK	50	28	DFT-30	Back	0mm	Ant 8	Reduced	645332	3679.98	17.67	19.60	1.560	-	-	0.01	1.420	2.215
	FR1 n48	40M	QPSK	100	0	DFT-30	Back	0mm	Ant 8	Reduced	641666	3624.99	17.90	19.60	1.479	-	-	0.12	1.640	2.426
	FR1 n48	40M	QPSK	1	1	DFT-30	Back	8mm	Ant 8	Full Power	641666	3624.99	20.95	22.60	1.462	-	-	0.01	0.421	0.616
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 3	Full Power	656000	3840	25.41	27.00	1.442	-	-	-0.13	1.870	2.697
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 3	Full Power	656000	3840	25.27	27.00	1.489	-	-	-0.14	1.740	2.591
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Front	0mm	Ant 3	Full Power	656000	3840	24.29	26.00	1.483	-	-	0.14	1.500	2.224
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	Reduced	656000	3840	22.25	23.00	1.189	-	-	-0.1	1.970	2.341
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 3	Reduced	656000	3840	22.22	23.00	1.197	-	-	-0.15	1.890	2.262
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 3	Reduced	656000	3840	22.12	23.00	1.225	-	-	0.05	2.110	2.584
	FR1 n77Par270 HPUE -NSA	100M	QPSK	270	0	DFT-30	Back	0mm	Ant3	Reduced	656000	3840	18.34	20.00	1.466	-	-	0.01	1.010	1.480
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	Reduced	656000	3840	22.25	23.00	1.189	-	-	-0.02	1.640	1.949
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 3	Reduced	656000	3840	22.22	23.00	1.197	-	-	0.04	1.740	2.082
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Left Side	0mm	Ant 3	Reduced	656000	3840	22.12	23.00	1.225	-	-	0.15	1.640	2.008
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 3	Full Power	656000	3840	25.41	27.00	1.442	-	-	-0.07	0.565	0.815
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 3	Full Power	656000	3840	25.27	27.00	1.489	-	-	-0.02	0.616	0.917
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Back	4mm	Ant 3	Full Power	656000	3840	25.41	27.00	1.442	-	-	-0.07	2.230	3.216
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Back	4mm	Ant 3	Full Power	656000	3840	25.27	27.00	1.489	-	-	0.07	2.100	3.128
116	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Back	4mm	Ant 3	Full Power	656000	3840	24.29	26.00	1.483	-	-	0.11	2.420	<b>3.588</b>
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Left Side	3mm	Ant 3	Full Power	656000	3840	25.41	27.00	1.442	-	-	0.02	1.900	2.740
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Left Side	3mm	Ant 3	Full Power	656000	3840	25.27	27.00	1.489	-	-	0.02	1.940	2.889
	FR1 n77Par270 HPUE	100M	QPSK	270	0	DFT-30	Left Side	3mm	Ant 3	Full Power	656000	3840	24.29	26.00	1.483	-	-	-0.13	1.890	2.802
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Front	0mm	Ant 3	Full Power	633334	3500.01	26.11	27.00	1.227	-	-	-0.07	0.306	0.376
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Front	0mm	Ant 3	Full Power	633334	3500.01	26.07	27.00	1.239	-	-	-0.15	0.421	0.522
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	Reduced	633334	3500.01	22.20	23.00	1.202	-	-	0.03	1.920	2.308
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 3	Reduced	633334	3500.01	22.17	23.00	1.211	-	-	-0.17	2.110	2.554
	FR1 n77Part27Q HPUE -NSA	100M	QPSK	135	69	DFT-30	Back	0mm	Ant3	Reduced	633334	3500.01	18.71	20.00	1.346	-	-	0.07	1.110	1.494
	FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 3	Reduced	633334	3500.01	22.02	23.00	1.253	-	-	-0.06	0.183	0.229
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	Reduced	633334	3500.01	22.20	23.00	1.202	-	-	0.09	1.370	1.647
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 3	Reduced	633334	3500.01	22.17	23.00	1.211	-	-	0.18	1.460	1.767
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 3	Full Power	633334	3500.01	26.11	27.00	1.227	-	-	-0.07	0.296	0.363
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 3	Full Power	633334	3500.01	26.07	27.00	1.239	-	-	-0.13	0.368	0.456
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	4mm	Ant 3	Full Power	633334	3500.01	26.11	27.00	1.227	-	-	0.11	2.800	3.437
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	4mm	Ant 3	Full Power	633334	3500.01	26.07	27.00	1.239	-	-	0.02	2.830	3.506
	FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	4mm	Ant 3	Full Power	633334	3500.01	25.04	26.00	1.247	-	-	0.17	2.710	3.380
	FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	3mm	Ant 3	Full Power	633334	3500.01	26.11	27.00	1.227	-	-	0.18	2.130	2.614
	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	3mm	Ant 3	Full Power	633334	3500.01	26.07	27.00	1.239	-	-	-0.05	2.370	2.936
	FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Left Side	3mm	Ant 3	Full Power	633334	3500.01	25.04	26.00	1.247	-	-	-0.02	2.070	2.582
	FR1 n77Par270 HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	Reduced	656000	3840	21.55	22.50	1.245	-	-	0.02	1.800	2.240
	FR1 n77Par270 HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 4	Reduced	656000	3840	21.46	22.50	1.271	-	-	-0.03	1.950	2.478
	FR1 n77Par270 HPUE -NSA	100M	QPSK	135	69	DFT-30	Back	0mm	Ant4	Reduced	656000	3840	18.13	19.50	1.371	-	-	-0.08	0.968	1.327



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FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 4	Reduced	656000	3840	21.26	22.50	1.330	-	-	-0.07	1.660	2.209
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 4	Full Power	656000	3840	25.35	27.00	1.462	-	-	0.02	0.965	1.411
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 4	Full Power	656000	3840	25.23	27.00	1.503	-	-	-0.05	0.955	1.436
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Back	3mm	Ant 4	Reduced	656000	3840	22.39	24.00	1.449	-	-	0.17	2.170	3.144
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Back	3mm	Ant 4	Reduced	656000	3840	22.31	24.00	1.476	-	-	0.06	2.300	3.394
FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Back	3mm	Ant 4	Reduced	656000	3840	21.20	23.00	1.514	-	-	-0.02	2.070	3.133
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 4	Reduced	633334	3500.01	21.72	22.50	1.197	-	-	0.05	1.790	2.142
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 4	Reduced	633334	3500.01	21.69	22.50	1.205	-	-	0.14	2.050	2.470
FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 4	Reduced	633334	3500.01	21.64	22.50	1.219	-	-	0.01	2.040	2.487
FR1 n77Part27Q HPUE -NSA	100M	QPSK	270	0	DFT-30	Back	0mm	Ant4	Reduced	633334	3500.01	17.55	19.50	1.567	-	-	-0.01	0.887	1.390
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	3mm	Ant 4	Reduced	633334	3500.01	22.08	24.00	1.556	-	-	-0.18	1.570	2.443
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	3mm	Ant 4	Reduced	633334	3500.01	22.01	24.00	1.581	-	-	0.11	1.620	2.562
FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	3mm	Ant 4	Reduced	633334	3500.01	21.07	23.00	1.560	-	-	-0.02	1.580	2.464
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	Reduced	656000	3840	20.81	22.00	1.315	-	-	-0.08	2.160	2.841
FR1 n77Par27O HPUE -NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant5	Reduced	656000	3840	18.89	20.00	1.291	-	-	-0.07	0.907	1.171
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	Reduced	656000	3840	20.77	22.00	1.327	-	-	-0.15	1.810	2.403
FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 5	Reduced	656000	3840	20.50	22.00	1.413	-	-	0.14	1.690	2.387
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 5	Full Power	656000	3840	25.52	27.00	1.406	-	-	-0.09	0.534	0.751
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 5	Full Power	656000	3840	25.55	27.00	1.396	-	-	-0.18	0.432	0.603
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Back	3mm	Ant 5	Full Power	656000	3840	25.52	27.00	1.406	-	-	0.03	2.000	2.812
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Back	3mm	Ant 5	Full Power	656000	3840	25.55	27.00	1.396	-	-	-0.03	1.980	2.765
FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Back	3mm	Ant 5	Full Power	656000	3840	24.49	26.00	1.416	-	-	-0.18	2.000	2.832
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	Reduced	633334	3500.01	20.58	22.00	1.387	-	-	-0.11	1.430	1.983
FR1 n77Part27Q HPUE -NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant5	Reduced	633334	3500.01	18.91	20.00	1.285	-	-	-0.02	0.882	1.134
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	Reduced	633334	3500.01	20.46	22.00	1.426	-	-	0.05	1.630	2.324
FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 5	Reduced	633334	3500.01	20.42	22.00	1.439	-	-	0.08	1.460	2.101
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 5	Full Power	633334	3500.01	25.50	27.00	1.413	-	-	-0.17	0.244	0.345
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 5	Full Power	633334	3500.01	25.33	27.00	1.469	-	-	-0.09	0.530	0.779
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	3mm	Ant 5	Full Power	633334	3500.01	25.50	27.00	1.413	-	-	-0.15	2.000	2.825
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	3mm	Ant 5	Full Power	633334	3500.01	25.33	27.00	1.469	-	-	0.13	2.180	3.202
FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	3mm	Ant 5	Full Power	633334	3500.01	24.42	26.00	1.439	-	-	0.11	2.100	3.021
FR1 n77Par27O HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	Reduced	656000	3840	17.71	18.50	1.199	-	-	0.08	2.100	2.519
FR1 n77Par27O HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	Reduced	656000	3840	17.68	18.50	1.208	-	-	-0.03	1.790	2.162
FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 8	Reduced	656000	3840	17.64	18.50	1.219	-	-	-0.06	2.130	2.596
FR1 n77Par27O HPUE -NSA	100M	QPSK	270	0	DFT-30	Back	0mm	Ant8	Reduced	656000	3840	14.04	15.50	1.400	-	-	-0.01	1.060	1.484
FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Back	8mm	Ant 8	Full Power	656000	3840	21.28	23.10	1.521	-	-	0.02	1.050	1.597
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	Reduced	633334	3500.01	17.83	18.50	1.167	-	-	-0.12	2.160	2.520
FR1 n77Part27Q HPUE -NSA	100M	QPSK	1	1	DFT-30	Back	0mm	Ant8	Reduced	633334	3500.01	13.88	15.50	1.452	-	-	-0.02	1.010	1.467
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	Reduced	633334	3500.01	17.71	18.50	1.199	-	-	-0.12	2.090	2.507
FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 8	Reduced	633334	3500.01	17.63	18.50	1.222	-	-	0.15	1.990	2.431
FR1 n77Part27Q HPUE	100M	QPSK	1	1	DFT-30	Back	8mm	Ant 8	Full Power	633334	3500.01	22.43	24.10	1.469	-	-	0.01	1.460	2.145
FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	8mm	Ant 8	Full Power	633334	3500.01	22.31	24.10	1.510	-	-	0.13	1.330	2.008
FR1 n77Part27Q HPUE	100M	QPSK	270	0	DFT-30	Back	8mm	Ant 8	Full Power	633334	3500.01	21.23	23.10	1.538	-	-	-0.02	1.410	2.169





Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	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)
<b>WIFI</b>																
	WLAN 2.4GHz	802.11b 1Mbps	Back	0mm	Ant 2+9	Standalone	6	2437	22.96	24.50	1.426	99.52	1.005	-0.02	0.701	1.004
117	WLAN 2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 2+9	Standalone	6	2437	22.96	24.50	1.426	99.52	1.005	0.1	0.967	<b>1.385</b>
	WLAN 2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 2+9	Simultaneous	6	2437	20.37	21.50	1.297	99.52	1.005	0.04	0.573	0.747
	WLAN 2.4GHz	802.11b 1Mbps	Top Side	12mm	Ant 2+9	Full Power	6	2437	22.96	24.50	1.426	99.52	1.005	0.13	0.172	0.246
	WLAN 5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 2+9	Full Power	46	5230	20.61	22.00	1.377	94.12	1.062	0.18	0.704	1.030
118	WLAN 5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 2+9	Full Power	46	5230	20.61	22.00	1.377	94.12	1.062	-0.09	1.680	<b>2.457</b>
	WLAN 5.2GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 2+9	Simultaneous	42	5210	15.05	16.50	1.396	89.19	1.121	0.09	0.469	0.734
	WLAN 5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 2+9	Full Power	38	5230	15.73	17.00	1.340	94.12	1.062	-0.09	0.621	0.884
	WLAN 5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 2+9	Full Power	46	5230	20.61	22.00	1.377	94.12	1.062	-0.12	0.811	1.186
	WLAN 5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 2+9	Simultaneous	42	5210	15.05	16.50	1.396	89.19	1.121	0.09	0.269	0.421
	WLAN 5.2GHz	802.11n-HT40 MCS0	Right Side	3mm	Ant 2+9	Full Power	46	5230	20.61	22.00	1.377	94.12	1.062	-0.12	0.231	0.338
	WLAN 5.2GHz	802.11n-HT40 MCS0	Top Side	12mm	Ant 2+9	Full Power	46	5230	20.61	22.00	1.377	94.12	1.062	0.1	0.022	0.032
	WLAN 5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 2+9	Full Power	54	5270	20.21	22.00	1.510	94.12	1.062	-0.03	0.528	0.847
	WLAN 5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 2+9	Full Power	54	5270	20.21	22.00	1.510	94.12	1.062	0.07	0.636	1.020
	WLAN 5.3GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 2+9	Full Power	54	5270	20.21	22.00	1.510	94.12	1.062	-0.03	0.034	0.055
119	WLAN 5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 2+9	Full Power	54	5270	20.21	22.00	1.510	94.12	1.062	0.03	1.540	<b>2.470</b>
	WLAN 5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 2+9	Simultaneous	58	5290	14.76	16.50	1.493	89.19	1.121	0.08	0.477	0.798
	WLAN 5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 2+9	Full Power	62	5310	16.62	18.00	1.374	94.12	1.062	0.03	0.701	1.023
	WLAN 5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 2+9	Full Power	54	5270	20.21	22.00	1.510	94.12	1.062	-0.11	0.667	1.070
	WLAN 5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 2+9	Simultaneous	58	5290	14.76	16.50	1.493	89.19	1.121	0.09	0.267	0.447
	WLAN 5.3GHz	802.11n-HT40 MCS0	Right Side	3mm	Ant 2+9	Full Power	54	5270	20.21	22.00	1.510	94.12	1.062	0.01	0.111	0.178
	WLAN 5.3GHz	802.11n-HT40 MCS0	Top Side	12mm	Ant 2+9	Full Power	54	5270	20.21	22.00	1.510	94.12	1.062	0.02	0.018	0.029
	WLAN 5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	0.17	0.454	0.700
	WLAN 5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	-0.07	0.643	0.991
	WLAN 5.5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	0.06	0.077	0.119
	WLAN 5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	-0.05	0.879	1.354
	WLAN 5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 2+9	Simultaneous	110	5550	16.34	18.00	1.466	94.12	1.062	-0.01	0.429	0.668
120	WLAN 5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	-0.03	1.230	<b>1.895</b>
	WLAN 5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 2+9	Simultaneous	110	5550	16.34	18.00	1.466	94.12	1.062	0.02	0.545	0.848
	WLAN 5.5GHz	802.11n-HT40 MCS0	Right Side	3mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	0.07	0.213	0.328
	WLAN 5.5GHz	802.11n-HT40 MCS0	Top Side	12mm	Ant 2+9	Full Power	110	5550	20.38	22.00	1.451	94.12	1.062	-0.11	0.015	0.023
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 2+9	Full Power	155	5775	20.61	22.50	1.545	89.19	1.121	0.16	0.557	0.965
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 2+9	Full Power	155	5775	20.61	22.50	1.545	89.19	1.121	0.14	0.719	1.245
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 2+9	Simultaneous	155	5775	16.48	18.00	1.419	89.19	1.121	0.14	0.352	0.560
121	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 2+9	Full Power	155	5775	20.61	22.50	1.545	89.19	1.121	0.1	1.180	<b>2.044</b>
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 2+9	Simultaneous	155	5775	16.48	18.00	1.419	89.19	1.121	0.06	0.456	0.725
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Right Side	3mm	Ant 2+9	Full Power	155	5775	20.61	22.50	1.545	89.19	1.121	-0.05	0.225	0.390
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Top Side	12mm	Ant 2+9	Full Power	155	5775	20.61	22.50	1.545	89.19	1.121	-0.09	0.028	0.049



15.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Reduced	23330	793	21.47	22.50	1.268	-	-	0.19	0.945	1	1.198
2nd	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Reduced	23330	793	21.47	22.50	1.268	-	-	0.01	0.933	1.013	1.183
1st	WLAN 2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 2+9	Reduced	6	2437	20.87	22.50	1.455	99.52	1.005	-0.02	0.891	1	1.303
2nd	WLAN 2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 2+9	Reduced	6	2437	20.87	22.50	1.455	99.52	1.005	-0.08	0.831	1.072	1.216
1st	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Reduced	251	848.8	27.46	28.50	1.271	-	-	-0.07	1.050	1	1.334
2nd	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Reduced	251	848.8	27.46	28.50	1.271	-	-	-0.08	0.982	1.069	1.248
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Reduced	1413	1732.6	17.13	18.00	1.222	-	-	0.04	1.170	1	1.430
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Reduced	1413	1732.6	17.13	18.00	1.222	-	-	0.03	1.110	1.054	1.356
1st	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	Reduced	376500	1882.5	17.26	18.00	1.186	-	-	-0.09	1.170	1	1.387
2nd	FR1 n25	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	Reduced	376500	1882.5	17.26	18.00	1.186	-	-	0.02	1.020	1.147	1.209
1st	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 6	Reduced	21350	2560	19.38	20.50	1.294	-	-	0.09	1.110	1	1.437
2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 6	Reduced	21350	2560	19.38	20.50	1.294	-	-	-0.13	1.020	1.088	1.320
1st	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	Reduced	55340	3560	17.18	18.00	1.208	62.9	1.006	0.1	0.962	1	1.169
2nd	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	Reduced	55340	3560	17.18	18.00	1.208	62.9	1.006	0.01	0.820	1.173	0.996
1st	FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	Reduced	656000	3840	18.50	19.50	1.259	-	-	-0.02	0.938	1	1.181
2nd	FR1 n77Par27O HPUE	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 4	Reduced	656000	3840	18.50	19.50	1.259	-	-	-0.17	0.927	1.012	1.167
1st	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	0.09	0.996	1	1.195
2nd	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 4	Reduced	633334	3500.01	18.71	19.50	1.199	-	-	-0.18	0.982	1.014	1.178
1st	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 6	Reduced	462000	2310	21.56	22.00	1.107	-	-	0.02	1.050	1	1.162
2nd	FR1 n30	10M	QPSK	25	14	DFT-15	Back	5mm	Ant 6	Reduced	462000	2310	21.56	22.00	1.107	-	-	0.14	0.999	1.051	1.106

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	FR1 n70	15M	QPSK	36	22	DFT-15	Back	0mm	Ant 0	Full Power	340500	1702.5	23.46	24.00	1.132	-	-	0.17	2.690	1	3.046
2nd	FR1 n70	15M	QPSK	36	22	DFT-15	Back	0mm	Ant 0	Full Power	340500	1702.5	23.46	24.00	1.132	-	-	-0.09	2.610	1.031	2.956
1st	FR1 n25	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	Reduced	376500	1882.5	20.44	21.00	1.138	-	-	0.17	3.070	1	3.493
2nd	FR1 n25	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	Reduced	376500	1882.5	20.44	21.00	1.138	-	-	-0.04	2.880	1.066	3.276
1st	FR1 n30	10M	QPSK	25	14	DFT-15	Back	0mm	Ant 6	Full Power	462000	2310	23.63	24.00	1.089	-	-	-0.05	3.040	1	3.310
2nd	FR1 n30	10M	QPSK	25	14	DFT-15	Back	0mm	Ant 6	Full Power	462000	2310	23.63	24.00	1.089	-	-	0.11	2.920	1.041	3.180
1st	FR1 n41 HPUE	100M	QPSK	1	1	-	Back	0mm	Ant 6	Reduced	518598	2592.99	23.95	24.50	1.135	-	-	0.02	2.790	1	3.167
2nd	FR1 n41 HPUE	100M	QPSK	1	1	-	Back	0mm	Ant 6	Reduced	518598	2592.99	23.95	24.50	1.135	-	-	-0.14	2.740	1.018	3.110
1st	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	4mm	Ant 3	Full Power	633334	3500.01	26.07	27.00	1.239	-	-	0.02	2.830	1	3.506
2nd	FR1 n77Part27Q HPUE	100M	QPSK	135	69	DFT-30	Back	4mm	Ant 3	Full Power	633334	3500.01	26.07	27.00	1.239	-	-	-0.15	2.690	1.052	3.332

General Note:

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



15.6 TDD B41 Linearity Data Analysis

General Note:

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

Table with 4 main sections: LTE Band 41(HPUE) Ant 6-Linearity Data for Head, LTE Band 41(HPUE) Ant 6-Linearity Data for Hotspot, LTE Band 41(HPUE) Ant 6-Linearity Data for Body-worn, and LTE Band 41(HPUE) Ant 6-Linearity Data for Extremity SAR. Each section compares Power Class 3 and Power Class 2 across metrics like Maximum Tune up Power, Reported SAR, Duty Cycle, Frame Averaged, Linearity SAR, and % deviation from expected linearity.



<b>LTE Band 41(HPUE) Ant 8-Linearity Data for Head</b>		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	22.60	25.50
Reported 1g SAR (W/kg)	0.055	0.070
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	115.19	153.63
Linearity SAR (W/kg)	0.073	
% deviation from expected linearity		-4.58%
<b>LTE Band 41(HPUE) Ant 8-Linearity Data for Hotspot</b>		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	20.10	23.00
Reported 1g SAR (W/kg)	0.753	0.977
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	64.77	86.39
Linearity SAR (W/kg)	1.004	
% deviation from expected linearity		-2.72%
<b>LTE Band 41(HPUE) Ant 8-Linearity Data for Body-worn</b>		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	20.10	23.00
Reported 1g SAR (W/kg)	0.753	0.977
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	64.77	86.39
Linearity SAR (W/kg)	1.004	
% deviation from expected linearity		-2.72%
<b>LTE Band 41(HPUE) Ant 8-Linearity Data for Extremity SAR</b>		
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	22.60	25.50
Reported 10g SAR (W/kg)	1.150	1.630
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	115.19	153.63
Linearity SAR (W/kg)	1.534	
% deviation from expected linearity		6.27%

## 16. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + WLAN6E	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	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. EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
4. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
5. 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).WIFI 6E has no hotspot function.
6. The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
7. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
8. WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
9. According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can't transmit simultaneously.
10. According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can't transmit simultaneously.
11. According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
12. The maximum SAR summation is calculated based on the same configuration and test position.
13. For Back/Back with headset, always chose higher SAR to do co-located analysis.
14. For 5GNR EN-DC mode, standalone SAR performed for 5GNR band with the maximum power, EN-DC SAR summed 5GNR standalone SAR and LTE standalone SAR , the result of EN-DC SAR is more conservatively.
15. For distance SAR and non-distance SAR in body-worn, always chose higher SAR to do co-located analysis.
16. SAR Power density test report for WLAN6E U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth, always chose higher SAR of WLAN5G U-NII-1/2A/2C/3 and U-NII-5/6/7/8.
17. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
  - ii)  $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , 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.
  - iii) If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR , simultaneously transmission SAR measurement is not necessary.
  - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.



16.1 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN	WLAN 2.4GHz Ant 2+9	WLAN 5GHz Ant 2+9	Bluetooth Ant 2	WLAN6GHz Ant 2+9	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM850 Ant 0	Right Cheek	0.381	0.305	0.373	0.068	0.102	0.69	0.75	0.45	0.48
	Right Tilted	0.213	0.305	0.373	0.054	0.116	0.52	0.59	0.27	0.33
	Left Cheek	0.298	0.305	0.373	0.081	0.135	0.60	0.67	0.38	0.43
	Left Tilted	0.188	0.305	0.373	0.060	0.148	0.49	0.56	0.25	0.34
GSM1900 Ant 0	Right Cheek	0.073	0.305	0.373	0.068	0.102	0.38	0.45	0.14	0.18
	Right Tilted	0.045	0.305	0.373	0.054	0.116	0.35	0.42	0.10	0.16
	Left Cheek	0.087	0.305	0.373	0.081	0.135	0.39	0.46	0.17	0.22
	Left Tilted	0.059	0.305	0.373	0.060	0.148	0.36	0.43	0.12	0.21
WCDMA II Ant 0	Right Cheek	0.094	0.305	0.373	0.068	0.102	0.40	0.47	0.16	0.20
	Right Tilted	0.065	0.305	0.373	0.054	0.116	0.37	0.44	0.12	0.18
	Left Cheek	0.106	0.305	0.373	0.081	0.135	0.41	0.48	0.19	0.24
	Left Tilted	0.086	0.305	0.373	0.060	0.148	0.39	0.46	0.15	0.23
WCDMA IV Ant 0	Right Cheek	0.093	0.305	0.373	0.068	0.102	0.40	0.47	0.16	0.20
	Right Tilted	0.054	0.305	0.373	0.054	0.116	0.36	0.43	0.11	0.17
	Left Cheek	0.091	0.305	0.373	0.081	0.135	0.40	0.46	0.17	0.23
	Left Tilted	0.053	0.305	0.373	0.060	0.148	0.36	0.43	0.11	0.20
WCDMA V Ant 0	Right Cheek	0.163	0.305	0.373	0.068	0.102	0.47	0.54	0.23	0.27
	Right Tilted	0.073	0.305	0.373	0.054	0.116	0.38	0.45	0.13	0.19
	Left Cheek	0.116	0.305	0.373	0.081	0.135	0.42	0.49	0.20	0.25
	Left Tilted	0.072	0.305	0.373	0.060	0.148	0.38	0.45	0.13	0.22
LTE Band 7 Ant 6	Right Cheek	0.160	0.305	0.373	0.068	0.102	0.47	0.53	0.23	0.26
	Right Tilted	0.131	0.305	0.373	0.054	0.116	0.44	0.50	0.19	0.25
	Left Cheek	0.226	0.305	0.373	0.081	0.135	0.53	0.60	0.31	0.36
	Left Tilted	0.073	0.305	0.373	0.060	0.148	0.38	0.45	0.13	0.22
LTE Band 12 Ant 0	Right Cheek	0.209	0.305	0.373	0.068	0.102	0.51	0.58	0.28	0.31
	Right Tilted	0.122	0.305	0.373	0.054	0.116	0.43	0.50	0.18	0.24
	Left Cheek	0.189	0.305	0.373	0.081	0.135	0.49	0.56	0.27	0.32
	Left Tilted	0.104	0.305	0.373	0.060	0.148	0.41	0.48	0.16	0.25
LTE Band 12 Ant 1	Right Cheek	1.062	0.305	0.373	0.068	0.102	1.37	1.44	1.13	1.16
	Right Tilted	0.654	0.305	0.373	0.054	0.116	0.96	1.03	0.71	0.77
	Left Cheek	0.528	0.305	0.373	0.081	0.135	0.83	0.90	0.61	0.66
	Left Tilted	0.490	0.305	0.373	0.060	0.148	0.80	0.86	0.55	0.64
LTE Band 13 Ant 0	Right Cheek	0.231	0.305	0.373	0.068	0.102	0.54	0.60	0.30	0.33
	Right Tilted	0.129	0.305	0.373	0.054	0.116	0.43	0.50	0.18	0.25
	Left Cheek	0.189	0.305	0.373	0.081	0.135	0.49	0.56	0.27	0.32
	Left Tilted	0.125	0.305	0.373	0.060	0.148	0.43	0.50	0.19	0.27
LTE Band 13 Ant 1	Right Cheek	1.074	0.305	0.373	0.068	0.102	1.38	1.45	1.14	1.18
	Right Tilted	0.632	0.305	0.373	0.054	0.116	0.94	1.01	0.69	0.75
	Left Cheek	0.611	0.305	0.373	0.081	0.135	0.92	0.98	0.69	0.75
	Left Tilted	0.546	0.305	0.373	0.060	0.148	0.85	0.92	0.61	0.69
LTE Band 14 Ant 0	Right Cheek	0.283	0.305	0.373	0.068	0.102	0.59	0.66	0.35	0.39
	Right Tilted	0.174	0.305	0.373	0.054	0.116	0.48	0.55	0.23	0.29
	Left Cheek	0.236	0.305	0.373	0.081	0.135	0.54	0.61	0.32	0.37
	Left Tilted	0.175	0.305	0.373	0.060	0.148	0.48	0.55	0.24	0.32
LTE Band 14 Ant 1	Right Cheek	1.198	0.305	0.373	0.068	0.102	1.50	1.57	1.27	1.30
	Right Tilted	0.970	0.305	0.373	0.054	0.116	1.28	1.34	1.02	1.09
	Left Cheek	0.766	0.305	0.373	0.081	0.135	1.07	1.14	0.85	0.90
	Left Tilted	0.794	0.305	0.373	0.060	0.148	1.10	1.17	0.85	0.94
LTE Band 25 Ant 0	Right Cheek	0.055	0.305	0.373	0.068	0.102	0.36	0.43	0.12	0.16
	Right Tilted	0.041	0.305	0.373	0.054	0.116	0.35	0.41	0.10	0.16





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	Left Cheek	0.067	0.305	0.373	0.081	0.135	0.37	0.44	0.15	0.20
	Left Tilted	0.044	0.305	0.373	0.060	0.148	0.35	0.42	0.10	0.19
LTE Band 25 Ant 1	Right Cheek	1.171	0.305	0.373	0.068	0.102	1.48	1.54	1.24	1.27
	Right Tilted	1.174	0.305	0.373	0.054	0.116	1.48	1.55	1.23	1.29
	Left Cheek	0.375	0.305	0.373	0.081	0.135	0.68	0.75	0.46	0.51
	Left Tilted	0.466	0.305	0.373	0.060	0.148	0.77	0.84	0.53	0.61
LTE Band 26 Ant 0	Right Cheek	0.249	0.305	0.373	0.068	0.102	0.55	0.62	0.32	0.35
	Right Tilted	0.116	0.305	0.373	0.054	0.116	0.42	0.49	0.17	0.23
	Left Cheek	0.210	0.305	0.373	0.081	0.135	0.52	0.58	0.29	0.35
	Left Tilted	0.121	0.305	0.373	0.060	0.148	0.43	0.49	0.18	0.27
LTE Band 26 Ant 1	Right Cheek	1.149	0.305	0.373	0.068	0.102	1.45	1.52	1.22	1.25
	Right Tilted	0.798	0.305	0.373	0.054	0.116	1.10	1.17	0.85	0.91
	Left Cheek	1.058	0.305	0.373	0.081	0.135	1.36	1.43	1.14	1.19
	Left Tilted	1.066	0.305	0.373	0.060	0.148	1.37	1.44	1.13	1.21
LTE Band 30 Ant 6	Right Cheek	0.136	0.305	0.373	0.068	0.102	0.44	0.51	0.20	0.24
	Right Tilted	0.100	0.305	0.373	0.054	0.116	0.41	0.47	0.15	0.22
	Left Cheek	0.175	0.305	0.373	0.081	0.135	0.48	0.55	0.26	0.31
	Left Tilted	0.070	0.305	0.373	0.060	0.148	0.38	0.44	0.13	0.22
LTE Band 41 Ant 6	Right Cheek	0.035	0.305	0.373	0.068	0.102	0.34	0.41	0.10	0.14
	Right Tilted	0.028	0.305	0.373	0.054	0.116	0.33	0.40	0.08	0.14
	Left Cheek	0.127	0.305	0.373	0.081	0.135	0.43	0.50	0.21	0.26
	Left Tilted	0.018	0.305	0.373	0.060	0.148	0.32	0.39	0.08	0.17
LTE Band 41 HPUE Ant 6	Right Cheek		0.305	0.373	0.068	0.102	0.31	0.37	0.07	0.10
	Right Tilted		0.305	0.373	0.054	0.116	0.31	0.37	0.05	0.12
	Left Cheek	0.184	0.305	0.373	0.081	0.135	0.49	0.56	0.27	0.32
	Left Tilted		0.305	0.373	0.060	0.148	0.31	0.37	0.06	0.15
LTE Band 41 Ant 8	Right Cheek	0.014	0.305	0.373	0.068	0.102	0.32	0.39	0.08	0.12
	Right Tilted	0.014	0.305	0.373	0.054	0.116	0.32	0.39	0.07	0.13
	Left Cheek	0.055	0.305	0.373	0.081	0.135	0.36	0.43	0.14	0.19
	Left Tilted	0.036	0.305	0.373	0.060	0.148	0.34	0.41	0.10	0.18
LTE Band 41 HPUE Ant 8	Right Cheek		0.305	0.373	0.068	0.102	0.31	0.37	0.07	0.10
	Right Tilted		0.305	0.373	0.054	0.116	0.31	0.37	0.05	0.12
	Left Cheek	0.070	0.305	0.373	0.081	0.135	0.38	0.44	0.15	0.21
	Left Tilted		0.305	0.373	0.060	0.148	0.31	0.37	0.06	0.15
LTE Band 48 Ant 3	Right Cheek	1.111	0.305	0.373	0.068	0.102	1.42	1.48	1.18	1.21
	Right Tilted	0.392	0.305	0.373	0.054	0.116	0.70	0.77	0.45	0.51
	Left Cheek	0.190	0.305	0.373	0.081	0.135	0.50	0.56	0.27	0.33
	Left Tilted	0.157	0.305	0.373	0.060	0.148	0.46	0.53	0.22	0.31
LTE Band 48 Ant 4	Right Cheek	0.596	0.305	0.373	0.068	0.102	0.90	0.97	0.66	0.70
	Right Tilted	0.501	0.305	0.373	0.054	0.116	0.81	0.87	0.56	0.62
	Left Cheek	0.255	0.305	0.373	0.081	0.135	0.56	0.63	0.34	0.39
	Left Tilted	0.283	0.305	0.373	0.060	0.148	0.59	0.66	0.34	0.43
LTE Band 48 Ant 5	Right Cheek	0.107	0.305	0.373	0.068	0.102	0.41	0.48	0.18	0.21
	Right Tilted	0.075	0.305	0.373	0.054	0.116	0.38	0.45	0.13	0.19
	Left Cheek	0.073	0.305	0.373	0.081	0.135	0.38	0.45	0.15	0.21
	Left Tilted	0.060	0.305	0.373	0.060	0.148	0.37	0.43	0.12	0.21
LTE Band 48 Ant 8	Right Cheek	0.056	0.305	0.373	0.068	0.102	0.36	0.43	0.12	0.16
	Right Tilted	0.037	0.305	0.373	0.054	0.116	0.34	0.41	0.09	0.15
	Left Cheek	0.050	0.305	0.373	0.081	0.135	0.36	0.42	0.13	0.19
	Left Tilted	0.036	0.305	0.373	0.060	0.148	0.34	0.41	0.10	0.18
LTE Band 66 Ant 0	Right Cheek	0.013	0.305	0.373	0.068	0.102	0.32	0.39	0.08	0.12
	Right Tilted	0.009	0.305	0.373	0.054	0.116	0.31	0.38	0.06	0.13
	Left Cheek	0.012	0.305	0.373	0.081	0.135	0.32	0.39	0.09	0.15
	Left Tilted	0.007	0.305	0.373	0.060	0.148	0.31	0.38	0.07	0.16
LTE Band 66 Ant 1	Right Cheek	0.958	0.305	0.373	0.068	0.102	1.26	1.33	1.03	1.06
	Right Tilted	1.100	0.305	0.373	0.054	0.116	1.41	1.47	1.15	1.22



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LTE Band 71 Ant 0	Left Cheek	0.342	0.305	0.373	0.081	0.135	0.65	0.72	0.42	0.48
	Left Tilted	0.524	0.305	0.373	0.060	0.148	0.83	0.90	0.58	0.67
	Right Cheek	0.160	0.305	0.373	0.068	0.102	0.47	0.53	0.23	0.26
	Right Tilted	0.098	0.305	0.373	0.054	0.116	0.40	0.47	0.15	0.21
	Left Cheek	0.147	0.305	0.373	0.081	0.135	0.45	0.52	0.23	0.28
LTE Band 71 Ant 1	Left Tilted	0.074	0.305	0.373	0.060	0.148	0.38	0.45	0.13	0.22
	Right Cheek	0.807	0.305	0.373	0.068	0.102	1.11	1.18	0.88	0.91
	Right Tilted	0.566	0.305	0.373	0.054	0.116	0.87	0.94	0.62	0.68
	Left Cheek	0.395	0.305	0.373	0.081	0.135	0.70	0.77	0.48	0.53
	Left Tilted	0.400	0.305	0.373	0.060	0.148	0.71	0.77	0.46	0.55

FR1 Band	Exposure Position	1	2	3	4	5	1+2	1+3	1+4	1+5
		FR1	WLAN 2.4GHz Ant 2+9	WLAN 5GHz Ant 2+9	Bluetooth Ant 2	WLAN6GHz Ant 2+9	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n12 Ant 0	Right Cheek	0.212	0.305	0.373	0.068	0.102	0.52	0.59	0.28	0.31
	Right Tilted	0.102	0.305	0.373	0.054	0.116	0.41	0.48	0.16	0.22
	Left Cheek	0.188	0.305	0.373	0.081	0.135	0.49	0.56	0.27	0.32
	Left Tilted	0.111	0.305	0.373	0.060	0.148	0.42	0.48	0.17	0.26
FR1 n12 Ant 1	Right Cheek	0.781	0.305	0.373	0.068	0.102	1.09	1.15	0.85	0.88
	Right Tilted	0.685	0.305	0.373	0.054	0.116	0.99	1.06	0.74	0.80
	Left Cheek	0.521	0.305	0.373	0.081	0.135	0.83	0.89	0.60	0.66
	Left Tilted	0.523	0.305	0.373	0.060	0.148	0.83	0.90	0.58	0.67
FR1 n14 Ant 0	Right Cheek	0.196	0.305	0.373	0.068	0.102	0.50	0.57	0.26	0.30
	Right Tilted	0.113	0.305	0.373	0.054	0.116	0.42	0.49	0.17	0.23
	Left Cheek	0.166	0.305	0.373	0.081	0.135	0.47	0.54	0.25	0.30
	Left Tilted	0.124	0.305	0.373	0.060	0.148	0.43	0.50	0.18	0.27
FR1 n14 Ant 1	Right Cheek	0.948	0.305	0.373	0.068	0.102	1.25	1.32	1.02	1.05
	Right Tilted	0.746	0.305	0.373	0.054	0.116	1.05	1.12	0.80	0.86
	Left Cheek	0.656	0.305	0.373	0.081	0.135	0.96	1.03	0.74	0.79
	Left Tilted	0.586	0.305	0.373	0.060	0.148	0.89	0.96	0.65	0.73
FR1 n25 Ant 0	Right Cheek	0.044	0.305	0.373	0.068	0.102	0.35	0.42	0.11	0.15
	Right Tilted	0.032	0.305	0.373	0.054	0.116	0.34	0.41	0.09	0.15
	Left Cheek	0.049	0.305	0.373	0.081	0.135	0.35	0.42	0.13	0.18
	Left Tilted	0.029	0.305	0.373	0.060	0.148	0.33	0.40	0.09	0.18
FR1 n25 Ant 1	Right Cheek	0.901	0.305	0.373	0.068	0.102	1.21	1.27	0.97	1.00
	Right Tilted	1.038	0.305	0.373	0.054	0.116	1.34	1.41	1.09	1.15
	Left Cheek	0.359	0.305	0.373	0.081	0.135	0.66	0.73	0.44	0.49
	Left Tilted	0.442	0.305	0.373	0.060	0.148	0.75	0.82	0.50	0.59
FR1 n26 Ant 0	Right Cheek	0.266	0.305	0.373	0.068	0.102	0.57	0.64	0.33	0.37
	Right Tilted	0.124	0.305	0.373	0.054	0.116	0.43	0.50	0.18	0.24
	Left Cheek	0.216	0.305	0.373	0.081	0.135	0.52	0.59	0.30	0.35
	Left Tilted	0.118	0.305	0.373	0.060	0.148	0.42	0.49	0.18	0.27
FR1 n26 Ant 1	Right Cheek	1.035	0.305	0.373	0.068	0.102	1.34	1.41	1.10	1.14
	Right Tilted	0.797	0.305	0.373	0.054	0.116	1.10	1.17	0.85	0.91
	Left Cheek	0.648	0.305	0.373	0.081	0.135	0.95	1.02	0.73	0.78
	Left Tilted	0.565	0.305	0.373	0.060	0.148	0.87	0.94	0.63	0.71
FR1 n30 Ant 6	Right Cheek	0.122	0.305	0.373	0.068	0.102	0.43	0.50	0.19	0.22
	Right Tilted	0.089	0.305	0.373	0.054	0.116	0.39	0.46	0.14	0.21
	Left Cheek	0.179	0.305	0.373	0.081	0.135	0.48	0.55	0.26	0.31
	Left Tilted	0.055	0.305	0.373	0.060	0.148	0.36	0.43	0.12	0.20
FR1 n41 HPUE Ant 5	Right Cheek	1.150	0.305	0.373	0.068	0.102	1.46	1.52	1.22	1.25
	Right Tilted	0.277	0.305	0.373	0.054	0.116	0.58	0.65	0.33	0.39
	Left Cheek	0.557	0.305	0.373	0.081	0.135	0.86	0.93	0.64	0.69
	Left Tilted	0.141	0.305	0.373	0.060	0.148	0.45	0.51	0.20	0.29



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FR1 n41 HPUE Ant 6	Right Cheek	0.232	0.305	0.373	0.068	0.102	0.54	0.61	0.30	0.33
	Right Tilted	0.213	0.305	0.373	0.054	0.116	0.52	0.59	0.27	0.33
	Left Cheek	0.332	0.305	0.373	0.081	0.135	0.64	0.71	0.41	0.47
	Left Tilted	0.125	0.305	0.373	0.060	0.148	0.43	0.50	0.19	0.27
FR1 n41 HPUE Ant 7	Right Cheek	0.368	0.305	0.373	0.068	0.102	0.67	0.74	0.44	0.47
	Right Tilted	0.418	0.305	0.373	0.054	0.116	0.72	0.79	0.47	0.53
	Left Cheek	1.131	0.305	0.373	0.081	0.135	1.44	1.50	1.21	1.27
	Left Tilted	1.078	0.305	0.373	0.060	0.148	1.38	1.45	1.14	1.23
FR1 n41 HPUE Ant 8	Right Cheek	0.418	0.305	0.373	0.068	0.102	0.72	0.79	0.49	0.52
	Right Tilted	0.226	0.305	0.373	0.054	0.116	0.53	0.60	0.28	0.34
	Left Cheek	0.322	0.305	0.373	0.081	0.135	0.63	0.70	0.40	0.46
	Left Tilted	0.303	0.305	0.373	0.060	0.148	0.61	0.68	0.36	0.45
FR1 n48 Ant 3	Right Cheek	1.195	0.305	0.373	0.068	0.102	1.50	1.57	1.26	1.30
	Right Tilted	0.442	0.305	0.373	0.054	0.116	0.75	0.82	0.50	0.56
	Left Cheek	0.182	0.305	0.373	0.081	0.135	0.49	0.56	0.26	0.32
	Left Tilted	0.171	0.305	0.373	0.060	0.148	0.48	0.54	0.23	0.32
FR1 n48 Ant 4	Right Cheek	0.999	0.305	0.373	0.068	0.102	1.30	1.37	1.07	1.10
	Right Tilted	0.899	0.305	0.373	0.054	0.116	1.20	1.27	0.95	1.02
	Left Cheek	0.529	0.305	0.373	0.081	0.135	0.83	0.90	0.61	0.66
	Left Tilted	0.575	0.305	0.373	0.060	0.148	0.88	0.95	0.64	0.72
FR1 n48 Ant 5	Right Cheek	0.044	0.305	0.373	0.068	0.102	0.35	0.42	0.11	0.15
	Right Tilted	0.039	0.305	0.373	0.054	0.116	0.34	0.41	0.09	0.16
	Left Cheek	0.043	0.305	0.373	0.081	0.135	0.35	0.42	0.12	0.18
	Left Tilted	0.032	0.305	0.373	0.060	0.148	0.34	0.41	0.09	0.18
FR1 n48 Ant 8	Right Cheek	0.038	0.305	0.373	0.068	0.102	0.34	0.41	0.11	0.14
	Right Tilted	0.019	0.305	0.373	0.054	0.116	0.32	0.39	0.07	0.14
	Left Cheek	0.037	0.305	0.373	0.081	0.135	0.34	0.41	0.12	0.17
	Left Tilted	0.019	0.305	0.373	0.060	0.148	0.32	0.39	0.08	0.17
FR1 n66 Ant 0	Right Cheek	0.080	0.305	0.373	0.068	0.102	0.39	0.45	0.15	0.18
	Right Tilted	0.048	0.305	0.373	0.054	0.116	0.35	0.42	0.10	0.16
	Left Cheek	0.067	0.305	0.373	0.081	0.135	0.37	0.44	0.15	0.20
	Left Tilted	0.042	0.305	0.373	0.060	0.148	0.35	0.42	0.10	0.19
FR1 n66 Ant 1	Right Cheek	1.077	0.305	0.373	0.068	0.102	1.38	1.45	1.15	1.18
	Right Tilted	1.196	0.305	0.373	0.054	0.116	1.50	1.57	1.25	1.31
	Left Cheek	0.418	0.305	0.373	0.081	0.135	0.72	0.79	0.50	0.55
	Left Tilted	0.825	0.305	0.373	0.060	0.148	1.13	1.20	0.89	0.97
FR1 n70 Ant 0	Right Cheek	0.042	0.305	0.373	0.068	0.102	0.35	0.42	0.11	0.14
	Right Tilted	0.028	0.305	0.373	0.054	0.116	0.33	0.40	0.08	0.14
	Left Cheek	0.036	0.305	0.373	0.081	0.135	0.34	0.41	0.12	0.17
	Left Tilted	0.021	0.305	0.373	0.060	0.148	0.33	0.39	0.08	0.17
FR1 n70 Ant 1	Right Cheek	1.012	0.305	0.373	0.068	0.102	1.32	1.39	1.08	1.11
	Right Tilted	1.144	0.305	0.373	0.054	0.116	1.45	1.52	1.20	1.26
	Left Cheek	0.445	0.305	0.373	0.081	0.135	0.75	0.82	0.53	0.58
	Left Tilted	0.499	0.305	0.373	0.060	0.148	0.80	0.87	0.56	0.65
FR1 n71 Ant 0	Right Cheek	0.119	0.305	0.373	0.068	0.102	0.42	0.49	0.19	0.22
	Right Tilted	0.069	0.305	0.373	0.054	0.116	0.37	0.44	0.12	0.19
	Left Cheek	0.118	0.305	0.373	0.081	0.135	0.42	0.49	0.20	0.25
	Left Tilted	0.069	0.305	0.373	0.060	0.148	0.37	0.44	0.13	0.22
FR1 n71 Ant 1	Right Cheek	0.571	0.305	0.373	0.068	0.102	0.88	0.94	0.64	0.67
	Right Tilted	0.433	0.305	0.373	0.054	0.116	0.74	0.81	0.49	0.55
	Left Cheek	0.319	0.305	0.373	0.081	0.135	0.62	0.69	0.40	0.45
	Left Tilted	0.311	0.305	0.373	0.060	0.148	0.62	0.68	0.37	0.46
FR1 n77Par270 HPUE Ant 3	Right Cheek	1.191	0.305	0.373	0.068	0.102	1.50	1.56	1.26	1.29
	Right Tilted	0.535	0.305	0.373	0.054	0.116	0.84	0.91	0.59	0.65
	Left Cheek	0.174	0.305	0.373	0.081	0.135	0.48	0.55	0.26	0.31
	Left Tilted	0.148	0.305	0.373	0.060	0.148	0.45	0.52	0.21	0.30



FR1 n77Part27Q HPUE Ant 3	Right Cheek	0.578	0.305	0.373	0.068	0.102	0.88	0.95	0.65	0.68
	Right Tilted	0.239	0.305	0.373	0.054	0.116	0.54	0.61	0.29	0.36
	Left Cheek	0.118	0.305	0.373	0.081	0.135	0.42	0.49	0.20	0.25
	Left Tilted	0.094	0.305	0.373	0.060	0.148	0.40	0.47	0.15	0.24
FR1 n77Par27O HPUE Ant 4	Right Cheek	1.072	0.305	0.373	0.068	0.102	1.38	1.45	1.14	1.17
	Right Tilted	1.195	0.305	0.373	0.054	0.116	1.50	1.57	1.25	1.31
	Left Cheek	0.595	0.305	0.373	0.081	0.135	0.90	0.97	0.68	0.73
	Left Tilted	0.677	0.305	0.373	0.060	0.148	0.98	1.05	0.74	0.83
FR1 n77Part27Q HPUE Ant 4	Right Cheek	0.765	0.305	0.373	0.068	0.102	1.07	1.14	0.83	0.87
	Right Tilted	0.692	0.305	0.373	0.054	0.116	1.00	1.07	0.75	0.81
	Left Cheek	0.360	0.305	0.373	0.081	0.135	0.67	0.73	0.44	0.50
	Left Tilted	0.388	0.305	0.373	0.060	0.148	0.69	0.76	0.45	0.54
FR1 n77Par27O HPUE Ant 5	Right Cheek	0.277	0.305	0.373	0.068	0.102	0.58	0.65	0.35	0.38
	Right Tilted	0.170	0.305	0.373	0.054	0.116	0.48	0.54	0.22	0.29
	Left Cheek	0.129	0.305	0.373	0.081	0.135	0.43	0.50	0.21	0.26
	Left Tilted	0.060	0.305	0.373	0.060	0.148	0.37	0.43	0.12	0.21
FR1 n77Part27Q HPUE Ant 5	Right Cheek	0.121	0.305	0.373	0.068	0.102	0.43	0.49	0.19	0.22
	Right Tilted	0.102	0.305	0.373	0.054	0.116	0.41	0.48	0.16	0.22
	Left Cheek	0.049	0.305	0.373	0.081	0.135	0.35	0.42	0.13	0.18
	Left Tilted	0.016	0.305	0.373	0.060	0.148	0.32	0.39	0.08	0.16
FR1 n77Par27O HPUE Ant 8	Right Cheek	0.056	0.305	0.373	0.068	0.102	0.36	0.43	0.12	0.16
	Right Tilted	0.048	0.305	0.373	0.054	0.116	0.35	0.42	0.10	0.16
	Left Cheek	0.042	0.305	0.373	0.081	0.135	0.35	0.42	0.12	0.18
	Left Tilted	0.040	0.305	0.373	0.060	0.148	0.35	0.41	0.10	0.19

<EN-DC and NRDC Mode>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	1+2+3	1+2+4	1+2+5	1+2+6
			WWAN	FR1	WLAN 2.4GHz Ant 2+9	WLAN 5GHz Ant 2+9	Bluetooth Ant 2	WLAN6GHz Ant 2+9	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 25 Ant 0&Band 7 Ant6	FR1 n25 Ant1	Right Cheek	0.160	0.599	0.305	0.373	0.068	0.102	1.06	1.13	0.83	0.86
		Right Tilted	0.131	0.599	0.305	0.373	0.054	0.116	1.04	1.10	0.78	0.85
		Left Cheek	0.226	0.599	0.305	0.373	0.081	0.135	1.13	1.20	0.91	0.96
		Left Tilted	0.073	0.599	0.305	0.373	0.060	0.148	0.98	1.05	0.73	0.82
LTE Band 25 Ant1	FR1 n25 Ant 0	Right Cheek	0.573	0.044	0.305	0.373	0.068	0.102	0.92	0.99	0.69	0.72
		Right Tilted	0.573	0.032	0.305	0.373	0.054	0.116	0.91	0.98	0.66	0.72
		Left Cheek	0.573	0.049	0.305	0.373	0.081	0.135	0.93	1.00	0.70	0.76
		Left Tilted	0.573	0.029	0.305	0.373	0.060	0.148	0.91	0.98	0.66	0.75
LTE Band 25 Ant 0&Band 7 Ant6	FR1 n26 Ant1	Right Cheek	0.160	0.536	0.305	0.373	0.068	0.102	1.00	1.07	0.76	0.80
		Right Tilted	0.131	0.536	0.305	0.373	0.054	0.116	0.97	1.04	0.72	0.78
		Left Cheek	0.226	0.536	0.305	0.373	0.081	0.135	1.07	1.14	0.84	0.90
		Left Tilted	0.073	0.536	0.305	0.373	0.060	0.148	0.91	0.98	0.67	0.76
LTE Band 25 Ant1	FR1 n26 Ant 0	Right Cheek	0.573	0.266	0.305	0.373	0.068	0.102	1.14	1.21	0.91	0.94
		Right Tilted	0.573	0.124	0.305	0.373	0.054	0.116	1.00	1.07	0.75	0.81
		Left Cheek	0.573	0.216	0.305	0.373	0.081	0.135	1.09	1.16	0.87	0.92
		Left Tilted	0.573	0.118	0.305	0.373	0.060	0.148	1.00	1.06	0.75	0.84
LTE Band 25 Ant 0	FR1 n12 Ant 1	Right Cheek	0.055	0.781	0.305	0.373	0.068	0.102	1.14	1.21	0.90	0.94
		Right Tilted	0.041	0.685	0.305	0.373	0.054	0.116	1.03	1.10	0.78	0.84
		Left Cheek	0.067	0.521	0.305	0.373	0.081	0.135	0.89	0.96	0.67	0.72
		Left Tilted	0.044	0.523	0.305	0.373	0.060	0.148	0.87	0.94	0.63	0.72
LTE Band 25 Ant1	FR1 n12 Ant 0	Right Cheek	0.573	0.212	0.305	0.373	0.068	0.102	1.09	1.16	0.85	0.89
		Right Tilted	0.573	0.102	0.305	0.373	0.054	0.116	0.98	1.05	0.73	0.79
		Left Cheek	0.573	0.188	0.305	0.373	0.081	0.135	1.07	1.13	0.84	0.90
		Left Tilted	0.573	0.111	0.305	0.373	0.060	0.148	0.99	1.06	0.74	0.83
LTE Band	FR1 n30	Right Cheek	0.573	0.122	0.305	0.373	0.068	0.102	1.00	1.07	0.76	0.80



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25 Ant1	Ant 6	Right Tilted	0.573	0.089	0.305	0.373	0.054	0.116	0.97	1.04	0.72	0.78
		Left Cheek	0.573	0.179	0.305	0.373	0.081	0.135	1.06	1.13	0.83	0.89
		Left Tilted	0.573	0.055	0.305	0.373	0.060	0.148	0.93	1.00	0.69	0.78
LTE Band 25 Ant 0	FR1 n41 HPUE Ant 6	Right Cheek	0.055	0.232	0.305	0.373	0.068	0.102	0.59	0.66	0.36	0.39
		Right Tilted	0.041	0.213	0.305	0.373	0.054	0.116	0.56	0.63	0.31	0.37
		Left Cheek	0.067	0.332	0.305	0.373	0.081	0.135	0.70	0.77	0.48	0.53
		Left Tilted	0.044	0.125	0.305	0.373	0.060	0.148	0.47	0.54	0.23	0.32
LTE Band 25 Ant1	FR1 n41 HPUE Ant 8	Right Cheek	0.573	0.418	0.305	0.373	0.068	0.102	1.30	1.36	1.06	1.09
		Right Tilted	0.573	0.226	0.305	0.373	0.054	0.116	1.10	1.17	0.85	0.92
		Left Cheek	0.573	0.322	0.305	0.373	0.081	0.135	1.20	1.27	0.98	1.03
		Left Tilted	0.573	0.303	0.305	0.373	0.060	0.148	1.18	1.25	0.94	1.02
LTE Band 25 Ant 0	FR1 n66 Ant1	Right Cheek	0.055	0.598	0.305	0.373	0.068	0.102	0.96	1.03	0.72	0.76
		Right Tilted	0.041	0.598	0.305	0.373	0.054	0.116	0.94	1.01	0.69	0.76
		Left Cheek	0.067	0.598	0.305	0.373	0.081	0.135	0.97	1.04	0.75	0.80
		Left Tilted	0.044	0.598	0.305	0.373	0.060	0.148	0.95	1.02	0.70	0.79
LTE Band 25 Ant1	FR1 n66 Ant 0	Right Cheek	0.573	0.080	0.305	0.373	0.068	0.102	0.96	1.03	0.72	0.76
		Right Tilted	0.573	0.048	0.305	0.373	0.054	0.116	0.93	0.99	0.68	0.74
		Left Cheek	0.573	0.067	0.305	0.373	0.081	0.135	0.95	1.01	0.72	0.78
		Left Tilted	0.573	0.042	0.305	0.373	0.060	0.148	0.92	0.99	0.68	0.76
LTE Band 25 Ant 0	FR1 n71 Ant1	Right Cheek	0.055	0.571	0.305	0.373	0.068	0.102	0.93	1.00	0.69	0.73
		Right Tilted	0.041	0.433	0.305	0.373	0.054	0.116	0.78	0.85	0.53	0.59
		Left Cheek	0.067	0.319	0.305	0.373	0.081	0.135	0.69	0.76	0.47	0.52
		Left Tilted	0.044	0.311	0.305	0.373	0.060	0.148	0.66	0.73	0.42	0.50
LTE Band 25 Ant1	FR1 n71 Ant 0	Right Cheek	0.573	0.119	0.305	0.373	0.068	0.102	1.00	1.07	0.76	0.79
		Right Tilted	0.573	0.069	0.305	0.373	0.054	0.116	0.95	1.02	0.70	0.76
		Left Cheek	0.573	0.118	0.305	0.373	0.081	0.135	1.00	1.06	0.77	0.83
		Left Tilted	0.573	0.069	0.305	0.373	0.060	0.148	0.95	1.02	0.70	0.79
LTE Band 25 Ant 0	FR1 n77Par270 HPUE Ant3	Right Cheek	0.055	0.600	0.305	0.373	0.068	0.102	0.96	1.03	0.72	0.76
		Right Tilted	0.041	0.600	0.305	0.373	0.054	0.116	0.95	1.01	0.70	0.76
		Left Cheek	0.067	0.600	0.305	0.373	0.081	0.135	0.97	1.04	0.75	0.80
		Left Tilted	0.044	0.600	0.305	0.373	0.060	0.148	0.95	1.02	0.70	0.79
LTE Band 25 Ant 0	FR1 n77Par270 HPUE Ant4	Right Cheek	0.055	0.592	0.305	0.373	0.068	0.102	0.95	1.02	0.72	0.75
		Right Tilted	0.041	0.592	0.305	0.373	0.054	0.116	0.94	1.01	0.69	0.75
		Left Cheek	0.067	0.592	0.305	0.373	0.081	0.135	0.96	1.03	0.74	0.79
		Left Tilted	0.044	0.592	0.305	0.373	0.060	0.148	0.94	1.01	0.70	0.78
LTE Band 25 Ant 0	FR1 n77Par270 HPUE Ant 5	Right Cheek	0.055	0.277	0.305	0.373	0.068	0.102	0.64	0.71	0.40	0.43
		Right Tilted	0.041	0.170	0.305	0.373	0.054	0.116	0.52	0.58	0.27	0.33
		Left Cheek	0.067	0.129	0.305	0.373	0.081	0.135	0.50	0.57	0.28	0.33
		Left Tilted	0.044	0.060	0.305	0.373	0.060	0.148	0.41	0.48	0.16	0.25



WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	1+2+3	1+2+4	1+2+5	1+2+6
			WWAN	FR1	WLAN 2.4GHz Ant 2+9	WLAN 5GHz Ant 2+9	Bluetooth Ant 2	WLAN6GHz Ant 2+9	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 25 Ant 0	FR1 n77Part27Q HPUE Ant3	Right Cheek	0.055	0.339	0.305	0.373	0.068	0.102	0.70	0.77	0.46	0.50
		Right Tilted	0.041	0.339	0.305	0.373	0.054	0.116	0.69	0.75	0.43	0.50
		Left Cheek	0.067	0.339	0.305	0.373	0.081	0.135	0.71	0.78	0.49	0.54
		Left Tilted	0.044	0.339	0.305	0.373	0.060	0.148	0.69	0.76	0.44	0.53
LTE Band 25 Ant 0	FR1 n77Part27Q HPUE Ant4	Right Cheek	0.055	0.340	0.305	0.373	0.068	0.102	0.70	0.77	0.46	0.50
		Right Tilted	0.041	0.340	0.305	0.373	0.054	0.116	0.69	0.75	0.44	0.50
		Left Cheek	0.067	0.340	0.305	0.373	0.081	0.135	0.71	0.78	0.49	0.54
		Left Tilted	0.044	0.340	0.305	0.373	0.060	0.148	0.69	0.76	0.44	0.53
LTE Band 25 Ant 0	FR1 n77Part27Q HPUE Ant 5	Right Cheek	0.055	0.121	0.305	0.373	0.068	0.102	0.48	0.55	0.24	0.28
		Right Tilted	0.041	0.102	0.305	0.373	0.054	0.116	0.45	0.52	0.20	0.26
		Left Cheek	0.067	0.049	0.305	0.373	0.081	0.135	0.42	0.49	0.20	0.25
		Left Tilted	0.044	0.016	0.305	0.373	0.060	0.148	0.37	0.43	0.12	0.21
LTE Band 25 Ant 0	FR1 n77Part27Q HPUE Ant 8	Right Cheek	0.055	0.068	0.305	0.373	0.068	0.102	0.43	0.50	0.19	0.23
		Right Tilted	0.041	0.048	0.305	0.373	0.054	0.116	0.39	0.46	0.14	0.21
		Left Cheek	0.067	0.054	0.305	0.373	0.081	0.135	0.43	0.49	0.20	0.26
		Left Tilted	0.044	0.038	0.305	0.373	0.060	0.148	0.39	0.46	0.14	0.23
LTE Band 25 Ant1	FR1 n77Part27Q HPUE Ant3	Right Cheek	0.573	0.600	0.305	0.373	0.068	0.102	1.48	1.55	1.24	1.28
		Right Tilted	0.573	0.600	0.305	0.373	0.054	0.116	1.48	1.55	1.23	1.29
		Left Cheek	0.573	0.600	0.305	0.373	0.081	0.135	1.48	1.55	1.25	1.31
		Left Tilted	0.573	0.600	0.305	0.373	0.060	0.148	1.48	1.55	1.23	1.32
LTE Band 25 Ant1	FR1 n77Part27Q HPUE Ant4	Right Cheek	0.573	0.592	0.305	0.373	0.068	0.102	1.47	1.54	1.23	1.27
		Right Tilted	0.573	0.592	0.305	0.373	0.054	0.116	1.47	1.54	1.22	1.28
		Left Cheek	0.573	0.592	0.305	0.373	0.081	0.135	1.47	1.54	1.25	1.30
		Left Tilted	0.573	0.592	0.305	0.373	0.060	0.148	1.47	1.54	1.23	1.31
LTE Band 25 Ant1	FR1 n77Part27Q HPUE Ant 5	Right Cheek	0.573	0.277	0.305	0.373	0.068	0.102	1.16	1.22	0.92	0.95
		Right Tilted	0.573	0.170	0.305	0.373	0.054	0.116	1.05	1.12	0.80	0.86
		Left Cheek	0.573	0.129	0.305	0.373	0.081	0.135	1.01	1.08	0.78	0.84
		Left Tilted	0.573	0.060	0.305	0.373	0.060	0.148	0.94	1.01	0.69	0.78
LTE Band 25 Ant1	FR1 n77Part27Q HPUE Ant 8	Right Cheek	0.573	0.056	0.305	0.373	0.068	0.102	0.93	1.00	0.70	0.73
		Right Tilted	0.573	0.048	0.305	0.373	0.054	0.116	0.93	0.99	0.68	0.74
		Left Cheek	0.573	0.042	0.305	0.373	0.081	0.135	0.92	0.99	0.70	0.75
		Left Tilted	0.573	0.040	0.305	0.373	0.060	0.148	0.92	0.99	0.67	0.76
LTE Band 25 Ant1	FR1 n77Part27Q HPUE Ant3	Right Cheek	0.573	0.339	0.305	0.373	0.068	0.102	1.22	1.29	0.98	1.01
		Right Tilted	0.573	0.339	0.305	0.373	0.054	0.116	1.22	1.29	0.97	1.03
		Left Cheek	0.573	0.339	0.305	0.373	0.081	0.135	1.22	1.29	0.99	1.05
		Left Tilted	0.573	0.339	0.305	0.373	0.060	0.148	1.22	1.29	0.97	1.06
LTE Band 25 Ant1	FR1 n77Part27Q HPUE Ant4	Right Cheek	0.573	0.340	0.305	0.373	0.068	0.102	1.22	1.29	0.98	1.02
		Right Tilted	0.573	0.340	0.305	0.373	0.054	0.116	1.22	1.29	0.97	1.03
		Left Cheek	0.573	0.340	0.305	0.373	0.081	0.135	1.22	1.29	0.99	1.05
		Left Tilted	0.573	0.340	0.305	0.373	0.060	0.148	1.22	1.29	0.97	1.06
LTE Band 25 Ant1	FR1 n77Part27Q HPUE Ant 5	Right Cheek	0.573	0.121	0.305	0.373	0.068	0.102	1.00	1.07	0.76	0.80
		Right Tilted	0.573	0.102	0.305	0.373	0.054	0.116	0.98	1.05	0.73	0.79
		Left Cheek	0.573	0.049	0.305	0.373	0.081	0.135	0.93	1.00	0.70	0.76
		Left Tilted	0.573	0.016	0.305	0.373	0.060	0.148	0.89	0.96	0.65	0.74
LTE Band 25 Ant1	FR1 n77Part27Q HPUE Ant 8	Right Cheek	0.573	0.068	0.305	0.373	0.068	0.102	0.95	1.01	0.71	0.74
		Right Tilted	0.573	0.048	0.305	0.373	0.054	0.116	0.93	0.99	0.68	0.74
		Left Cheek	0.573	0.054	0.305	0.373	0.081	0.135	0.93	1.00	0.71	0.76
		Left Tilted	0.573	0.038	0.305	0.373	0.060	0.148	0.92	0.98	0.67	0.76
LTE Band 66 Ant0	FR1 n41 HPUE Ant 6	Right Cheek	0.013	0.232	0.305	0.373	0.068	0.102	0.55	0.62	0.31	0.35
		Right Tilted	0.009	0.213	0.305	0.373	0.054	0.116	0.53	0.60	0.28	0.34





LTE Band 66 Ant 1	FR1 n41 HPUE Ant 8	Left Cheek	0.012	0.332	0.305	0.373	0.081	0.135	0.65	0.72	0.43	0.48
		Left Tilted	0.007	0.125	0.305	0.373	0.060	0.148	0.44	0.51	0.19	0.28
		Right Cheek	0.522	0.418	0.305	0.373	0.068	0.102	1.25	1.31	1.01	1.04
		Right Tilted	0.522	0.226	0.305	0.373	0.054	0.116	1.05	1.12	0.80	0.86
		Left Cheek	0.522	0.322	0.305	0.373	0.081	0.135	1.15	1.22	0.93	0.98
		Left Tilted	0.522	0.303	0.305	0.373	0.060	0.148	1.13	1.20	0.89	0.97
LTE Band 26 Ant1	FR1 n30 Ant 6	Right Cheek	0.580	0.122	0.305	0.373	0.068	0.102	1.01	1.08	0.77	0.80
		Right Tilted	0.580	0.089	0.305	0.373	0.054	0.116	0.97	1.04	0.72	0.79
		Left Cheek	0.580	0.179	0.305	0.373	0.081	0.135	1.06	1.13	0.84	0.89
		Left Tilted	0.580	0.055	0.305	0.373	0.060	0.148	0.94	1.01	0.70	0.78
LTE Band 26 Ant 0&1	FR1 n66 Ant1&0	Right Cheek	0.580	0.598	0.305	0.373	0.068	0.102	1.48	1.55	1.25	1.28
		Right Tilted	0.580	0.598	0.305	0.373	0.054	0.116	1.48	1.55	1.23	1.29
		Left Cheek	0.580	0.598	0.305	0.373	0.081	0.135	1.48	1.55	1.26	1.31
		Left Tilted	0.580	0.598	0.305	0.373	0.060	0.148	1.48	1.55	1.24	1.33

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	1+2+3	1+2+4	1+2+5	1+2+6
			WWAN	FR1	WLAN 2.4GHz Ant 2+9	WLAN 5GHz Ant 2+9	Bluetooth Ant 2	WLAN6GHz Ant 2+9	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 26 Ant 0	FR1 n77Par270 HPUE Ant3	Right Cheek	0.249	0.600	0.305	0.373	0.068	0.102	1.15	1.22	0.92	0.95
		Right Tilted	0.116	0.600	0.305	0.373	0.054	0.116	1.02	1.09	0.77	0.83
		Left Cheek	0.210	0.600	0.305	0.373	0.081	0.135	1.12	1.18	0.89	0.95
		Left Tilted	0.121	0.600	0.305	0.373	0.060	0.148	1.03	1.09	0.78	0.87
LTE Band 26 Ant 0	FR1 n77Par270 HPUE Ant4	Right Cheek	0.249	0.592	0.305	0.373	0.068	0.102	1.15	1.21	0.91	0.94
		Right Tilted	0.116	0.592	0.305	0.373	0.054	0.116	1.01	1.08	0.76	0.82
		Left Cheek	0.210	0.592	0.305	0.373	0.081	0.135	1.11	1.18	0.88	0.94
		Left Tilted	0.121	0.592	0.305	0.373	0.060	0.148	1.02	1.09	0.77	0.86
LTE Band 26 Ant 0	FR1 n77Par270 HPUE Ant 5	Right Cheek	0.249	0.277	0.305	0.373	0.068	0.102	0.83	0.90	0.59	0.63
		Right Tilted	0.116	0.170	0.305	0.373	0.054	0.116	0.59	0.66	0.34	0.40
		Left Cheek	0.210	0.129	0.305	0.373	0.081	0.135	0.64	0.71	0.42	0.47
		Left Tilted	0.121	0.060	0.305	0.373	0.060	0.148	0.49	0.55	0.24	0.33
LTE Band 26 Ant 0	FR1 n77Par270 HPUE Ant 8	Right Cheek	0.249	0.056	0.305	0.373	0.068	0.102	0.61	0.68	0.37	0.41
		Right Tilted	0.116	0.048	0.305	0.373	0.054	0.116	0.47	0.54	0.22	0.28
		Left Cheek	0.210	0.042	0.305	0.373	0.081	0.135	0.56	0.63	0.33	0.39
		Left Tilted	0.121	0.040	0.305	0.373	0.060	0.148	0.47	0.53	0.22	0.31
LTE Band 26 Ant 0	FR1 n77Par270 HPUE Ant3	Right Cheek	0.249	0.339	0.305	0.373	0.068	0.102	0.89	0.96	0.66	0.69
		Right Tilted	0.116	0.339	0.305	0.373	0.054	0.116	0.76	0.83	0.51	0.57
		Left Cheek	0.210	0.339	0.305	0.373	0.081	0.135	0.85	0.92	0.63	0.68
		Left Tilted	0.121	0.339	0.305	0.373	0.060	0.148	0.77	0.83	0.52	0.61
LTE Band 26 Ant 0	FR1 n77Par270 HPUE Ant4	Right Cheek	0.249	0.340	0.305	0.373	0.068	0.102	0.89	0.96	0.66	0.69
		Right Tilted	0.116	0.340	0.305	0.373	0.054	0.116	0.76	0.83	0.51	0.57
		Left Cheek	0.210	0.340	0.305	0.373	0.081	0.135	0.86	0.92	0.63	0.69
		Left Tilted	0.121	0.340	0.305	0.373	0.060	0.148	0.77	0.83	0.52	0.61
LTE Band 26 Ant 0	FR1 n77Part27Q HPUE Ant 5	Right Cheek	0.249	0.121	0.305	0.373	0.068	0.102	0.68	0.74	0.44	0.47
		Right Tilted	0.116	0.102	0.305	0.373	0.054	0.116	0.52	0.59	0.27	0.33
		Left Cheek	0.210	0.049	0.305	0.373	0.081	0.135	0.56	0.63	0.34	0.39
		Left Tilted	0.121	0.016	0.305	0.373	0.060	0.148	0.44	0.51	0.20	0.29
LTE Band 26 Ant 0	FR1 n77Part27Q HPUE Ant 8	Right Cheek	0.249	0.068	0.305	0.373	0.068	0.102	0.62	0.69	0.39	0.42
		Right Tilted	0.116	0.048	0.305	0.373	0.054	0.116	0.47	0.54	0.22	0.28
		Left Cheek	0.210	0.054	0.305	0.373	0.081	0.135	0.57	0.64	0.35	0.40
		Left Tilted	0.121	0.038	0.305	0.373	0.060	0.148	0.46	0.53	0.22	0.31
LTE Band 26 Ant1	FR1 n77Par270 HPUE Ant3	Right Cheek	0.580	0.600	0.305	0.373	0.068	0.102	1.49	1.55	1.25	1.28
		Right Tilted	0.580	0.600	0.305	0.373	0.054	0.116	1.49	1.55	1.23	1.30
		Left Cheek	0.580	0.600	0.305	0.373	0.081	0.135	1.49	1.55	1.26	1.32
		Left Tilted	0.580	0.600	0.305	0.373	0.060	0.148	1.49	1.55	1.24	1.33



LTE Band 26 Ant1	FR1 n77Par27O HPUE Ant4	Right Cheek	0.580	0.592	0.305	0.373	0.068	0.102	1.48	1.55	1.24	1.27
		Right Tilted	0.580	0.592	0.305	0.373	0.054	0.116	1.48	1.55	1.23	1.29
		Left Cheek	0.580	0.592	0.305	0.373	0.081	0.135	1.48	1.55	1.25	1.31
		Left Tilted	0.580	0.592	0.305	0.373	0.060	0.148	1.48	1.55	1.23	1.32
LTE Band 26 Ant1	FR1 n77Par27O HPUE Ant 5	Right Cheek	0.580	0.277	0.305	0.373	0.068	0.102	1.16	1.23	0.93	0.96
		Right Tilted	0.580	0.170	0.305	0.373	0.054	0.116	1.06	1.12	0.80	0.87
		Left Cheek	0.580	0.129	0.305	0.373	0.081	0.135	1.01	1.08	0.79	0.84
		Left Tilted	0.580	0.060	0.305	0.373	0.060	0.148	0.95	1.01	0.70	0.79
LTE Band 26 Ant1	FR1 n77Par27O HPUE Ant 8	Right Cheek	0.580	0.056	0.305	0.373	0.068	0.102	0.94	1.01	0.70	0.74
		Right Tilted	0.580	0.048	0.305	0.373	0.054	0.116	0.93	1.00	0.68	0.74
		Left Cheek	0.580	0.042	0.305	0.373	0.081	0.135	0.93	1.00	0.70	0.76
		Left Tilted	0.580	0.040	0.305	0.373	0.060	0.148	0.93	0.99	0.68	0.77
LTE Band 26 Ant1	FR1 n77Part27Q HPUE Ant3	Right Cheek	0.580	0.339	0.305	0.373	0.068	0.102	1.22	1.29	0.99	1.02
		Right Tilted	0.580	0.339	0.305	0.373	0.054	0.116	1.22	1.29	0.97	1.04
		Left Cheek	0.580	0.339	0.305	0.373	0.081	0.135	1.22	1.29	1.00	1.05
		Left Tilted	0.580	0.339	0.305	0.373	0.060	0.148	1.22	1.29	0.98	1.07
LTE Band 26 Ant1	FR1 n77Part27Q HPUE Ant4	Right Cheek	0.580	0.340	0.305	0.373	0.068	0.102	1.23	1.29	0.99	1.02
		Right Tilted	0.580	0.340	0.305	0.373	0.054	0.116	1.23	1.29	0.97	1.04
		Left Cheek	0.580	0.340	0.305	0.373	0.081	0.135	1.23	1.29	1.00	1.06
		Left Tilted	0.580	0.340	0.305	0.373	0.060	0.148	1.23	1.29	0.98	1.07
LTE Band 26 Ant1	FR1 n77Part27Q HPUE Ant 5	Right Cheek	0.580	0.121	0.305	0.373	0.068	0.102	1.01	1.07	0.77	0.80
		Right Tilted	0.580	0.102	0.305	0.373	0.054	0.116	0.99	1.06	0.74	0.80
		Left Cheek	0.580	0.049	0.305	0.373	0.081	0.135	0.93	1.00	0.71	0.76
		Left Tilted	0.580	0.016	0.305	0.373	0.060	0.148	0.90	0.97	0.66	0.74
LTE Band 26 Ant1	FR1 n77Part27Q HPUE Ant 8	Right Cheek	0.580	0.068	0.305	0.373	0.068	0.102	0.95	1.02	0.72	0.75
		Right Tilted	0.580	0.048	0.305	0.373	0.054	0.116	0.93	1.00	0.68	0.74
		Left Cheek	0.580	0.054	0.305	0.373	0.081	0.135	0.94	1.01	0.72	0.77
		Left Tilted	0.580	0.038	0.305	0.373	0.060	0.148	0.92	0.99	0.68	0.77

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	1+2+3	1+2+4	1+2+5	1+2+6
			WWAN	FR1	WLAN 2.4GHz Ant 2+9	WLAN 5GHz Ant 2+9	Bluetooth Ant 2	WLAN6GHz Ant 2+9	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 7 Ant 6	FR1 n66 Ant1	Right Cheek	0.160	0.598	0.305	0.373	0.068	0.102	1.06	1.13	0.83	0.86
		Right Tilted	0.131	0.598	0.305	0.373	0.054	0.116	1.03	1.10	0.78	0.85
		Left Cheek	0.226	0.598	0.305	0.373	0.081	0.135	1.13	1.20	0.91	0.96
		Left Tilted	0.073	0.598	0.305	0.373	0.060	0.148	0.98	1.04	0.73	0.82
LTE Band 7 Ant 6	FR1 n71 Ant 1	Right Cheek	0.160	0.571	0.305	0.373	0.068	0.102	1.04	1.10	0.80	0.83
		Right Tilted	0.131	0.433	0.305	0.373	0.054	0.116	0.87	0.94	0.62	0.68
		Left Cheek	0.226	0.319	0.305	0.373	0.081	0.135	0.85	0.92	0.63	0.68
		Left Tilted	0.073	0.311	0.305	0.373	0.060	0.148	0.69	0.76	0.44	0.53
LTE Band 7 Ant 6	FR1 n77Par27O HPUE Ant 5	Right Cheek	0.160	0.277	0.305	0.373	0.068	0.102	0.74	0.81	0.51	0.54
		Right Tilted	0.131	0.170	0.305	0.373	0.054	0.116	0.61	0.67	0.36	0.42
		Left Cheek	0.226	0.129	0.305	0.373	0.081	0.135	0.66	0.73	0.44	0.49
		Left Tilted	0.073	0.060	0.305	0.373	0.060	0.148	0.44	0.51	0.19	0.28
LTE Band 7 Ant 6	FR1 n77Part27Q HPUE Ant 5	Right Cheek	0.160	0.121	0.305	0.373	0.068	0.102	0.59	0.65	0.35	0.38
		Right Tilted	0.131	0.102	0.305	0.373	0.054	0.116	0.54	0.61	0.29	0.35
		Left Cheek	0.226	0.049	0.305	0.373	0.081	0.135	0.58	0.65	0.36	0.41
		Left Tilted	0.073	0.016	0.305	0.373	0.060	0.148	0.39	0.46	0.15	0.24
LTE Band 12 Ant 0	FR1 n25 Ant1	Right Cheek	0.209	0.599	0.305	0.373	0.068	0.102	1.11	1.18	0.88	0.91
		Right Tilted	0.122	0.599	0.305	0.373	0.054	0.116	1.03	1.09	0.78	0.84
		Left Cheek	0.189	0.599	0.305	0.373	0.081	0.135	1.09	1.16	0.87	0.92
		Left Tilted	0.104	0.599	0.305	0.373	0.060	0.148	1.01	1.08	0.76	0.85
LTE Band 12 Ant1	FR1 n25 Ant 0	Right Cheek	0.591	0.044	0.305	0.373	0.068	0.102	0.94	1.01	0.70	0.74
		Right Tilted	0.591	0.032	0.305	0.373	0.054	0.116	0.93	1.00	0.68	0.74



LTE Band 12 Ant1	FR1 n30 Ant 6	Left Cheek	0.591	0.049	0.305	0.373	0.081	0.135	0.95	1.01	0.72	0.78
		Left Tilted	0.591	0.029	0.305	0.373	0.060	0.148	0.93	0.99	0.68	0.77
LTE Band 12 Ant 0	FR1 n41 HPUE Ant 6	Right Cheek	0.591	0.122	0.305	0.373	0.068	0.102	1.02	1.09	0.78	0.82
		Right Tilted	0.591	0.089	0.305	0.373	0.054	0.116	0.99	1.05	0.73	0.80
LTE Band 12 Ant 0	FR1 n41 HPUE Ant 6	Left Cheek	0.591	0.179	0.305	0.373	0.081	0.135	1.08	1.14	0.85	0.91
		Left Tilted	0.591	0.055	0.305	0.373	0.060	0.148	0.95	1.02	0.71	0.79
LTE Band 12 Ant 0	FR1 n41 HPUE Ant 8	Right Cheek	0.209	0.232	0.305	0.373	0.068	0.102	0.75	0.81	0.51	0.54
		Right Tilted	0.122	0.213	0.305	0.373	0.054	0.116	0.64	0.71	0.39	0.45
LTE Band 12 Ant 1	FR1 n41 HPUE Ant 8	Left Cheek	0.189	0.332	0.305	0.373	0.081	0.135	0.83	0.89	0.60	0.66
		Left Tilted	0.104	0.125	0.305	0.373	0.060	0.148	0.53	0.60	0.29	0.38
LTE Band 12 Ant 0	FR1 n66 Ant1	Right Cheek	0.591	0.418	0.305	0.373	0.068	0.102	1.31	1.38	1.08	1.11
		Right Tilted	0.591	0.226	0.305	0.373	0.054	0.116	1.12	1.19	0.87	0.93
LTE Band 12 Ant 1	FR1 n66 Ant 0	Left Cheek	0.591	0.322	0.305	0.373	0.081	0.135	1.22	1.29	0.99	1.05
		Left Tilted	0.591	0.303	0.305	0.373	0.060	0.148	1.20	1.27	0.95	1.04
LTE Band 12 Ant 0	FR1 n77Par27O HPUE Ant3	Right Cheek	0.209	0.598	0.305	0.373	0.068	0.102	1.11	1.18	0.88	0.91
		Right Tilted	0.122	0.598	0.305	0.373	0.054	0.116	1.03	1.09	0.77	0.84
LTE Band 12 Ant 1	FR1 n77Par27O HPUE Ant 3	Left Cheek	0.189	0.598	0.305	0.373	0.081	0.135	1.09	1.16	0.87	0.92
		Left Tilted	0.104	0.598	0.305	0.373	0.060	0.148	1.01	1.08	0.76	0.85
LTE Band 12 Ant 0	FR1 n77Par27O HPUE Ant4	Right Cheek	0.591	0.080	0.305	0.373	0.068	0.102	0.98	1.04	0.74	0.77
		Right Tilted	0.591	0.048	0.305	0.373	0.054	0.116	0.94	1.01	0.69	0.76
LTE Band 12 Ant 0	FR1 n77Par27O HPUE Ant5	Left Cheek	0.591	0.067	0.305	0.373	0.081	0.135	0.96	1.03	0.74	0.79
		Left Tilted	0.591	0.042	0.305	0.373	0.060	0.148	0.94	1.01	0.69	0.78
LTE Band 12 Ant 0	FR1 n77Par27O HPUE Ant3	Right Cheek	0.209	0.600	0.305	0.373	0.068	0.102	1.11	1.18	0.88	0.91
		Right Tilted	0.122	0.600	0.305	0.373	0.054	0.116	1.03	1.10	0.78	0.84
LTE Band 12 Ant 0	FR1 n77Par27O HPUE Ant4	Left Cheek	0.189	0.600	0.305	0.373	0.081	0.135	1.09	1.16	0.87	0.92
		Left Tilted	0.104	0.600	0.305	0.373	0.060	0.148	1.01	1.08	0.76	0.85
LTE Band 12 Ant 0	FR1 n77Par27O HPUE Ant5	Right Cheek	0.209	0.592	0.305	0.373	0.068	0.102	1.11	1.17	0.87	0.90
		Right Tilted	0.122	0.592	0.305	0.373	0.054	0.116	1.02	1.09	0.77	0.83
LTE Band 12 Ant 0	FR1 n77Par27O HPUE Ant5	Left Cheek	0.189	0.592	0.305	0.373	0.081	0.135	1.09	1.15	0.86	0.92
		Left Tilted	0.104	0.592	0.305	0.373	0.060	0.148	1.00	1.07	0.76	0.84
LTE Band 12 Ant 0	FR1 n77Par27O HPUE Ant 5	Right Cheek	0.209	0.277	0.305	0.373	0.068	0.102	0.79	0.86	0.55	0.59
		Right Tilted	0.122	0.170	0.305	0.373	0.054	0.116	0.60	0.67	0.35	0.41
LTE Band 12 Ant 0	FR1 n77Par27O HPUE Ant 8	Left Cheek	0.189	0.129	0.305	0.373	0.081	0.135	0.62	0.69	0.40	0.45
		Left Tilted	0.104	0.060	0.305	0.373	0.060	0.148	0.47	0.54	0.22	0.31
LTE Band 12 Ant 0	FR1 n77Par27O HPUE Ant 8	Right Cheek	0.209	0.056	0.305	0.373	0.068	0.102	0.57	0.64	0.33	0.37
		Right Tilted	0.122	0.048	0.305	0.373	0.054	0.116	0.48	0.54	0.22	0.29
LTE Band 12 Ant 0	FR1 n77Part27Q HPUE Ant3	Left Cheek	0.189	0.042	0.305	0.373	0.081	0.135	0.54	0.60	0.31	0.37
		Left Tilted	0.104	0.040	0.305	0.373	0.060	0.148	0.45	0.52	0.20	0.29
LTE Band 12 Ant1	FR1 n77Part27Q HPUE Ant3	Right Cheek	0.591	0.339	0.305	0.373	0.068	0.102	1.24	1.30	1.00	1.03
		Right Tilted	0.591	0.339	0.305	0.373	0.054	0.116	1.24	1.30	0.98	1.05
LTE Band 12 Ant1	FR1 n77Part27Q HPUE Ant3	Left Cheek	0.591	0.339	0.305	0.373	0.081	0.135	1.24	1.30	1.01	1.07
		Left Tilted	0.591	0.339	0.305	0.373	0.060	0.148	1.24	1.30	0.99	1.08



**FCC SAR Test Report**

**Report No. : FA240834**

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	1+2+3	1+2+4	1+2+5	1+2+6
			WWAN	FR1	WLAN 2.4GHz Ant 2+9	WLAN 5GHz Ant 2+9	Bluetooth Ant 2	WLAN6GHz Ant 2+9	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 12 Ant1	FR1 n77Part27Q HPUE Ant 8	Right Cheek	0.591	0.068	0.305	0.373	0.068	0.102	0.96	1.03	0.73	0.76
		Right Tilted	0.591	0.048	0.305	0.373	0.054	0.116	0.94	1.01	0.69	0.76
		Left Cheek	0.591	0.054	0.305	0.373	0.081	0.135	0.95	1.02	0.73	0.78
		Left Tilted	0.591	0.038	0.305	0.373	0.060	0.148	0.93	1.00	0.69	0.78
LTE Band 13 Ant 0	FR1 n25 Ant1	Right Cheek	0.231	0.599	0.305	0.373	0.068	0.102	1.14	1.20	0.90	0.93
		Right Tilted	0.129	0.599	0.305	0.373	0.054	0.116	1.03	1.10	0.78	0.84
		Left Cheek	0.189	0.599	0.305	0.373	0.081	0.135	1.09	1.16	0.87	0.92
		Left Tilted	0.125	0.599	0.305	0.373	0.060	0.148	1.03	1.10	0.78	0.87
LTE Band 13 Ant1	FR1 n25 Ant 0	Right Cheek	0.573	0.044	0.305	0.373	0.068	0.102	0.92	0.99	0.69	0.72
		Right Tilted	0.573	0.032	0.305	0.373	0.054	0.116	0.91	0.98	0.66	0.72
		Left Cheek	0.573	0.049	0.305	0.373	0.081	0.135	0.93	1.00	0.70	0.76
		Left Tilted	0.573	0.029	0.305	0.373	0.060	0.148	0.91	0.98	0.66	0.75
LTE Band 13 Ant 0	FR1 n66 Ant1	Right Cheek	0.231	0.598	0.305	0.373	0.068	0.102	1.13	1.20	0.90	0.93
		Right Tilted	0.129	0.598	0.305	0.373	0.054	0.116	1.03	1.10	0.78	0.84
		Left Cheek	0.189	0.598	0.305	0.373	0.081	0.135	1.09	1.16	0.87	0.92
		Left Tilted	0.125	0.598	0.305	0.373	0.060	0.148	1.03	1.10	0.78	0.87
LTE Band 13 Ant1	FR1 n66 Ant 0	Right Cheek	0.573	0.080	0.305	0.373	0.068	0.102	0.96	1.03	0.72	0.76
		Right Tilted	0.573	0.048	0.305	0.373	0.054	0.116	0.93	0.99	0.68	0.74
		Left Cheek	0.573	0.067	0.305	0.373	0.081	0.135	0.95	1.01	0.72	0.78
		Left Tilted	0.573	0.042	0.305	0.373	0.060	0.148	0.92	0.99	0.68	0.76
LTE Band 13 Ant 0	FR1 n77Par27Q HPUE Ant3	Right Cheek	0.231	0.600	0.305	0.373	0.068	0.102	1.14	1.20	0.90	0.93
		Right Tilted	0.129	0.600	0.305	0.373	0.054	0.116	1.03	1.10	0.78	0.85
		Left Cheek	0.189	0.600	0.305	0.373	0.081	0.135	1.09	1.16	0.87	0.92
		Left Tilted	0.125	0.600	0.305	0.373	0.060	0.148	1.03	1.10	0.79	0.87
LTE Band 13 Ant 0	FR1 n77Par27Q HPUE Ant4	Right Cheek	0.231	0.592	0.305	0.373	0.068	0.102	1.13	1.20	0.89	0.93
		Right Tilted	0.129	0.592	0.305	0.373	0.054	0.116	1.03	1.09	0.78	0.84
		Left Cheek	0.189	0.592	0.305	0.373	0.081	0.135	1.09	1.15	0.86	0.92
		Left Tilted	0.125	0.592	0.305	0.373	0.060	0.148	1.02	1.09	0.78	0.87
LTE Band 13 Ant 0	FR1 n77Par27Q HPUE Ant 5	Right Cheek	0.231	0.277	0.305	0.373	0.068	0.102	0.81	0.88	0.58	0.61
		Right Tilted	0.129	0.170	0.305	0.373	0.054	0.116	0.60	0.67	0.35	0.42
		Left Cheek	0.189	0.129	0.305	0.373	0.081	0.135	0.62	0.69	0.40	0.45
		Left Tilted	0.125	0.060	0.305	0.373	0.060	0.148	0.49	0.56	0.25	0.33
LTE Band 13 Ant 0	FR1 n77Par27Q HPUE Ant 8	Right Cheek	0.231	0.056	0.305	0.373	0.068	0.102	0.59	0.66	0.36	0.39
		Right Tilted	0.129	0.048	0.305	0.373	0.054	0.116	0.48	0.55	0.23	0.29
		Left Cheek	0.189	0.042	0.305	0.373	0.081	0.135	0.54	0.60	0.31	0.37
		Left Tilted	0.125	0.040	0.305	0.373	0.060	0.148	0.47	0.54	0.23	0.31
LTE Band 13 Ant 0	FR1 n77Part27Q HPUE Ant3	Right Cheek	0.231	0.339	0.305	0.373	0.068	0.102	0.88	0.94	0.64	0.67
		Right Tilted	0.129	0.339	0.305	0.373	0.054	0.116	0.77	0.84	0.52	0.58
		Left Cheek	0.189	0.339	0.305	0.373	0.081	0.135	0.83	0.90	0.61	0.66
		Left Tilted	0.125	0.339	0.305	0.373	0.060	0.148	0.77	0.84	0.52	0.61
LTE Band 13 Ant 0	FR1 n77Part27Q HPUE Ant4	Right Cheek	0.231	0.340	0.305	0.373	0.068	0.102	0.88	0.94	0.64	0.67
		Right Tilted	0.129	0.340	0.305	0.373	0.054	0.116	0.77	0.84	0.52	0.59
		Left Cheek	0.189	0.340	0.305	0.373	0.081	0.135	0.83	0.90	0.61	0.66
		Left Tilted	0.125	0.340	0.305	0.373	0.060	0.148	0.77	0.84	0.53	0.61
LTE Band 13 Ant 0	FR1 n77Part27Q HPUE Ant 5	Right Cheek	0.231	0.121	0.305	0.373	0.068	0.102	0.66	0.73	0.42	0.45
		Right Tilted	0.129	0.102	0.305	0.373	0.054	0.116	0.54	0.60	0.29	0.35
		Left Cheek	0.189	0.049	0.305	0.373	0.081	0.135	0.54	0.61	0.32	0.37
		Left Tilted	0.125	0.016	0.305	0.373	0.060	0.148	0.45	0.51	0.20	0.29
LTE Band 13 Ant 0	FR1 n77Part27Q HPUE Ant 8	Right Cheek	0.231	0.068	0.305	0.373	0.068	0.102	0.60	0.67	0.37	0.40
		Right Tilted	0.129	0.048	0.305	0.373	0.054	0.116	0.48	0.55	0.23	0.29
		Left Cheek	0.189	0.054	0.305	0.373	0.081	0.135	0.55	0.62	0.32	0.38
		Left Tilted	0.125	0.038	0.305	0.373	0.060	0.148	0.47	0.54	0.22	0.31

**Sporton International Inc. (Kunshan)**

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHDT56AE7

Issued Date : Jul. 14, 2022

Form version. : 200414



LTE Band 13 Ant1	FR1 n77Par270 HPUE Ant3	Right Cheek	0.573	0.600	0.305	0.373	0.068	0.102	1.48	1.55	1.24	1.28
		Right Tilted	0.573	0.600	0.305	0.373	0.054	0.116	1.48	1.55	1.23	1.29
		Left Cheek	0.573	0.600	0.305	0.373	0.081	0.135	1.48	1.55	1.25	1.31
		Left Tilted	0.573	0.600	0.305	0.373	0.060	0.148	1.48	1.55	1.23	1.32
LTE Band 13 Ant1	FR1 n77Par270 HPUE Ant4	Right Cheek	0.573	0.592	0.305	0.373	0.068	0.102	1.47	1.54	1.23	1.27
		Right Tilted	0.573	0.592	0.305	0.373	0.054	0.116	1.47	1.54	1.22	1.28
		Left Cheek	0.573	0.592	0.305	0.373	0.081	0.135	1.47	1.54	1.25	1.30
		Left Tilted	0.573	0.592	0.305	0.373	0.060	0.148	1.47	1.54	1.23	1.31
LTE Band 13 Ant1	FR1 n77Par270 HPUE Ant 5	Right Cheek	0.573	0.277	0.305	0.373	0.068	0.102	1.16	1.22	0.92	0.95
		Right Tilted	0.573	0.170	0.305	0.373	0.054	0.116	1.05	1.12	0.80	0.86
		Left Cheek	0.573	0.129	0.305	0.373	0.081	0.135	1.01	1.08	0.78	0.84
		Left Tilted	0.573	0.060	0.305	0.373	0.060	0.148	0.94	1.01	0.69	0.78

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	1+2+3	1+2+4	1+2+5	1+2+6
			WWAN	FR1	WLAN 2.4GHz Ant 2+9	WLAN 5GHz Ant 2+9	Bluetooth Ant 2	WLAN6GHz Ant 2+9	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 13 Ant1	FR1 n77Par270 HPUE Ant4	Right Cheek	0.573	0.340	0.305	0.373	0.068	0.102	1.22	1.29	0.98	1.02
		Right Tilted	0.573	0.340	0.305	0.373	0.054	0.116	1.22	1.29	0.97	1.03
		Left Cheek	0.573	0.340	0.305	0.373	0.081	0.135	1.22	1.29	0.99	1.05
		Left Tilted	0.573	0.340	0.305	0.373	0.060	0.148	1.22	1.29	0.97	1.06
LTE Band 13 Ant1	FR1 n77Par270 HPUE Ant 5	Right Cheek	0.573	0.121	0.305	0.373	0.068	0.102	1.00	1.07	0.76	0.80
		Right Tilted	0.573	0.102	0.305	0.373	0.054	0.116	0.98	1.05	0.73	0.79
		Left Cheek	0.573	0.049	0.305	0.373	0.081	0.135	0.93	1.00	0.70	0.76
		Left Tilted	0.573	0.016	0.305	0.373	0.060	0.148	0.89	0.96	0.65	0.74
LTE Band 13 Ant1	FR1 n77Par270 HPUE Ant 8	Right Cheek	0.573	0.068	0.305	0.373	0.068	0.102	0.95	1.01	0.71	0.74
		Right Tilted	0.573	0.048	0.305	0.373	0.054	0.116	0.93	0.99	0.68	0.74
		Left Cheek	0.573	0.054	0.305	0.373	0.081	0.135	0.93	1.00	0.71	0.76
		Left Tilted	0.573	0.038	0.305	0.373	0.060	0.148	0.92	0.98	0.67	0.76
LTE Band 12 Ant 0	FR1 n77Par270 HPUE Ant3	Right Cheek	0.209	0.339	0.305	0.373	0.068	0.102	0.85	0.92	0.62	0.65
		Right Tilted	0.122	0.339	0.305	0.373	0.054	0.116	0.77	0.83	0.52	0.58
		Left Cheek	0.189	0.339	0.305	0.373	0.081	0.135	0.83	0.90	0.61	0.66
		Left Tilted	0.104	0.339	0.305	0.373	0.060	0.148	0.75	0.82	0.50	0.59
LTE Band 12 Ant 0	FR1 n77Par270 HPUE Ant4	Right Cheek	0.209	0.340	0.305	0.373	0.068	0.102	0.85	0.92	0.62	0.65
		Right Tilted	0.122	0.340	0.305	0.373	0.054	0.116	0.77	0.84	0.52	0.58
		Left Cheek	0.189	0.340	0.305	0.373	0.081	0.135	0.83	0.90	0.61	0.66
		Left Tilted	0.104	0.340	0.305	0.373	0.060	0.148	0.75	0.82	0.50	0.59
LTE Band 12 Ant 0	FR1 n77Par270 HPUE Ant 5	Right Cheek	0.209	0.121	0.305	0.373	0.068	0.102	0.64	0.70	0.40	0.43
		Right Tilted	0.122	0.102	0.305	0.373	0.054	0.116	0.53	0.60	0.28	0.34
		Left Cheek	0.189	0.049	0.305	0.373	0.081	0.135	0.54	0.61	0.32	0.37
		Left Tilted	0.104	0.016	0.305	0.373	0.060	0.148	0.43	0.49	0.18	0.27
LTE Band 12 Ant 0	FR1 n77Par270 HPUE Ant 8	Right Cheek	0.209	0.068	0.305	0.373	0.068	0.102	0.58	0.65	0.35	0.38
		Right Tilted	0.122	0.048	0.305	0.373	0.054	0.116	0.48	0.54	0.22	0.29
		Left Cheek	0.189	0.054	0.305	0.373	0.081	0.135	0.55	0.62	0.32	0.38
		Left Tilted	0.104	0.038	0.305	0.373	0.060	0.148	0.45	0.52	0.20	0.29
LTE Band 12 Ant1	FR1 n77Par270 HPUE Ant3	Right Cheek	0.591	0.600	0.305	0.373	0.068	0.102	1.50	1.56	1.26	1.29
		Right Tilted	0.591	0.600	0.305	0.373	0.054	0.116	1.50	1.56	1.25	1.31
		Left Cheek	0.591	0.600	0.305	0.373	0.081	0.135	1.50	1.56	1.27	1.33
		Left Tilted	0.591	0.600	0.305	0.373	0.060	0.148	1.50	1.56	1.25	1.34
LTE Band 12 Ant1	FR1 n77Par270 HPUE Ant4	Right Cheek	0.591	0.592	0.305	0.373	0.068	0.102	1.49	1.56	1.25	1.29
		Right Tilted	0.591	0.592	0.305	0.373	0.054	0.116	1.49	1.56	1.24	1.30
		Left Cheek	0.591	0.592	0.305	0.373	0.081	0.135	1.49	1.56	1.26	1.32
		Left Tilted	0.591	0.592	0.305	0.373	0.060	0.148	1.49	1.56	1.24	1.33
LTE Band 12 Ant1	FR1 n77Par270	Right Cheek	0.591	0.277	0.305	0.373	0.068	0.102	1.17	1.24	0.94	0.97
		Right Tilted	0.591	0.170	0.305	0.373	0.054	0.116	1.07	1.13	0.82	0.88



	HPUE Ant 5	Left Cheek	0.591	0.129	0.305	0.373	0.081	0.135	1.03	1.09	0.80	0.86
		Left Tilted	0.591	0.060	0.305	0.373	0.060	0.148	0.96	1.02	0.71	0.80
LTE Band 12 Ant1	FR1 n77Par270 HPUE Ant 8	Right Cheek	0.591	0.056	0.305	0.373	0.068	0.102	0.95	1.02	0.72	0.75
		Right Tilted	0.591	0.048	0.305	0.373	0.054	0.116	0.94	1.01	0.69	0.76
		Left Cheek	0.591	0.042	0.305	0.373	0.081	0.135	0.94	1.01	0.71	0.77
		Left Tilted	0.591	0.040	0.305	0.373	0.060	0.148	0.94	1.00	0.69	0.78
LTE Band 14 Ant 0	FR1 n25 Ant1	Right Cheek	0.283	0.599	0.305	0.373	0.068	0.102	1.19	1.26	0.95	0.98
		Right Tilted	0.174	0.599	0.305	0.373	0.054	0.116	1.08	1.15	0.83	0.89
		Left Cheek	0.236	0.599	0.305	0.373	0.081	0.135	1.14	1.21	0.92	0.97
		Left Tilted	0.175	0.599	0.305	0.373	0.060	0.148	1.08	1.15	0.83	0.92
LTE Band 14 Ant1	FR1 n25 Ant 0	Right Cheek	0.581	0.044	0.305	0.373	0.068	0.102	0.93	1.00	0.69	0.73
		Right Tilted	0.581	0.032	0.305	0.373	0.054	0.116	0.92	0.99	0.67	0.73
		Left Cheek	0.581	0.049	0.305	0.373	0.081	0.135	0.94	1.00	0.71	0.77
		Left Tilted	0.581	0.029	0.305	0.373	0.060	0.148	0.92	0.98	0.67	0.76
LTE Band 14 Ant1	FR1 n30 Ant 0	Right Cheek	0.581	0.122	0.305	0.373	0.068	0.102	1.01	1.08	0.77	0.81
		Right Tilted	0.581	0.089	0.305	0.373	0.054	0.116	0.98	1.04	0.72	0.79
		Left Cheek	0.581	0.179	0.305	0.373	0.081	0.135	1.07	1.13	0.84	0.90
		Left Tilted	0.581	0.055	0.305	0.373	0.060	0.148	0.94	1.01	0.70	0.78
LTE Band 14 Ant 0	FR1 n66 Ant1	Right Cheek	0.283	0.598	0.305	0.373	0.068	0.102	1.19	1.25	0.95	0.98
		Right Tilted	0.174	0.598	0.305	0.373	0.054	0.116	1.08	1.15	0.83	0.89
		Left Cheek	0.236	0.598	0.305	0.373	0.081	0.135	1.14	1.21	0.92	0.97
		Left Tilted	0.175	0.598	0.305	0.373	0.060	0.148	1.08	1.15	0.83	0.92
LTE Band 14 Ant1	FR1 n66 Ant 0	Right Cheek	0.581	0.080	0.305	0.373	0.068	0.102	0.97	1.03	0.73	0.76
		Right Tilted	0.581	0.048	0.305	0.373	0.054	0.116	0.93	1.00	0.68	0.75
		Left Cheek	0.581	0.067	0.305	0.373	0.081	0.135	0.95	1.02	0.73	0.78
		Left Tilted	0.581	0.042	0.305	0.373	0.060	0.148	0.93	1.00	0.68	0.77

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	1+2+3	1+2+4	1+2+5	1+2+6
			WWAN	FR1	WLAN 2.4GHz Ant 2+9	WLAN 5GHz Ant 2+9	Bluetooth Ant 2	WLAN6GHz Ant 2+9	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 14 Ant 0	FR1 n77Par270 HPUE Ant 5	Right Cheek	0.283	0.277	0.305	0.373	0.068	0.102	0.87	0.93	0.63	0.66
		Right Tilted	0.174	0.170	0.305	0.373	0.054	0.116	0.65	0.72	0.40	0.46
		Left Cheek	0.236	0.129	0.305	0.373	0.081	0.135	0.67	0.74	0.45	0.50
		Left Tilted	0.175	0.060	0.305	0.373	0.060	0.148	0.54	0.61	0.30	0.38
LTE Band 14 Ant 0	FR1 n77Par270 HPUE Ant 8	Right Cheek	0.283	0.056	0.305	0.373	0.068	0.102	0.64	0.71	0.41	0.44
		Right Tilted	0.174	0.048	0.305	0.373	0.054	0.116	0.53	0.60	0.28	0.34
		Left Cheek	0.236	0.042	0.305	0.373	0.081	0.135	0.58	0.65	0.36	0.41
		Left Tilted	0.175	0.040	0.305	0.373	0.060	0.148	0.52	0.59	0.28	0.36
LTE Band 14 Ant 0	FR1 n77Part27Q HPUE Ant3	Right Cheek	0.283	0.339	0.305	0.373	0.068	0.102	0.93	1.00	0.69	0.72
		Right Tilted	0.174	0.339	0.305	0.373	0.054	0.116	0.82	0.89	0.57	0.63
		Left Cheek	0.236	0.339	0.305	0.373	0.081	0.135	0.88	0.95	0.66	0.71
		Left Tilted	0.175	0.339	0.305	0.373	0.060	0.148	0.82	0.89	0.57	0.66
LTE Band 14 Ant 0	FR1 n77Part27Q HPUE Ant4	Right Cheek	0.283	0.340	0.305	0.373	0.068	0.102	0.93	1.00	0.69	0.73
		Right Tilted	0.174	0.340	0.305	0.373	0.054	0.116	0.82	0.89	0.57	0.63
		Left Cheek	0.236	0.340	0.305	0.373	0.081	0.135	0.88	0.95	0.66	0.71
		Left Tilted	0.175	0.340	0.305	0.373	0.060	0.148	0.82	0.89	0.58	0.66
LTE Band 14 Ant 0	FR1 n77Part27Q HPUE Ant 5	Right Cheek	0.283	0.121	0.305	0.373	0.068	0.102	0.71	0.78	0.47	0.51
		Right Tilted	0.174	0.102	0.305	0.373	0.054	0.116	0.58	0.65	0.33	0.39
		Left Cheek	0.236	0.049	0.305	0.373	0.081	0.135	0.59	0.66	0.37	0.42
		Left Tilted	0.175	0.016	0.305	0.373	0.060	0.148	0.50	0.56	0.25	0.34
LTE Band 14 Ant 0	FR1 n77Part27Q HPUE Ant 8	Right Cheek	0.283	0.068	0.305	0.373	0.068	0.102	0.66	0.72	0.42	0.45
		Right Tilted	0.174	0.048	0.305	0.373	0.054	0.116	0.53	0.60	0.28	0.34
		Left Cheek	0.236	0.054	0.305	0.373	0.081	0.135	0.60	0.66	0.37	0.43
		Left Tilted	0.175	0.038	0.305	0.373	0.060	0.148	0.52	0.59	0.27	0.36





LTE Band 14 Ant1	FR1 n77Par270 HPUE Ant3	Right Cheek	0.581	0.600	0.305	0.373	0.068	0.102	1.49	1.55	1.25	1.28
		Right Tilted	0.581	0.600	0.305	0.373	0.054	0.116	1.49	1.55	1.24	1.30
		Left Cheek	0.581	0.600	0.305	0.373	0.081	0.135	1.49	1.55	1.26	1.32
		Left Tilted	0.581	0.600	0.305	0.373	0.060	0.148	1.49	1.55	1.24	1.33
LTE Band 14 Ant1	FR1 n77Par270 HPUE Ant4	Right Cheek	0.581	0.592	0.305	0.373	0.068	0.102	1.48	1.55	1.24	1.28
		Right Tilted	0.581	0.592	0.305	0.373	0.054	0.116	1.48	1.55	1.23	1.29
		Left Cheek	0.581	0.592	0.305	0.373	0.081	0.135	1.48	1.55	1.25	1.31
		Left Tilted	0.581	0.592	0.305	0.373	0.060	0.148	1.48	1.55	1.23	1.32
LTE Band 14 Ant1	FR1 n77Par270 HPUE Ant 5	Right Cheek	0.581	0.277	0.305	0.373	0.068	0.102	1.16	1.23	0.93	0.96
		Right Tilted	0.581	0.170	0.305	0.373	0.054	0.116	1.06	1.12	0.81	0.87
		Left Cheek	0.581	0.129	0.305	0.373	0.081	0.135	1.02	1.08	0.79	0.85
		Left Tilted	0.581	0.060	0.305	0.373	0.060	0.148	0.95	1.01	0.70	0.79
LTE Band 14 Ant1	FR1 n77Par270 HPUE Ant 8	Right Cheek	0.581	0.056	0.305	0.373	0.068	0.102	0.94	1.01	0.71	0.74
		Right Tilted	0.581	0.048	0.305	0.373	0.054	0.116	0.93	1.00	0.68	0.75
		Left Cheek	0.581	0.042	0.305	0.373	0.081	0.135	0.93	1.00	0.70	0.76
		Left Tilted	0.581	0.040	0.305	0.373	0.060	0.148	0.93	0.99	0.68	0.77
LTE Band 14 Ant1	FR1 n77Part27Q HPUE Ant3	Right Cheek	0.581	0.339	0.305	0.373	0.068	0.102	1.23	1.29	0.99	1.02
		Right Tilted	0.581	0.339	0.305	0.373	0.054	0.116	1.23	1.29	0.97	1.04
		Left Cheek	0.581	0.339	0.305	0.373	0.081	0.135	1.23	1.29	1.00	1.06
		Left Tilted	0.581	0.339	0.305	0.373	0.060	0.148	1.23	1.29	0.98	1.07
LTE Band 14 Ant1	FR1 n77Part27Q HPUE Ant4	Right Cheek	0.581	0.340	0.305	0.373	0.068	0.102	1.23	1.29	0.99	1.02
		Right Tilted	0.581	0.340	0.305	0.373	0.054	0.116	1.23	1.29	0.98	1.04
		Left Cheek	0.581	0.340	0.305	0.373	0.081	0.135	1.23	1.29	1.00	1.06
		Left Tilted	0.581	0.340	0.305	0.373	0.060	0.148	1.23	1.29	0.98	1.07
LTE Band 14 Ant1	FR1 n77Part27Q HPUE Ant 5	Right Cheek	0.581	0.121	0.305	0.373	0.068	0.102	1.01	1.08	0.77	0.80
		Right Tilted	0.581	0.102	0.305	0.373	0.054	0.116	0.99	1.06	0.74	0.80
		Left Cheek	0.581	0.049	0.305	0.373	0.081	0.135	0.94	1.00	0.71	0.77
		Left Tilted	0.581	0.016	0.305	0.373	0.060	0.148	0.90	0.97	0.66	0.75
LTE Band 14 Ant1	FR1 n77Part27Q HPUE Ant 8	Right Cheek	0.581	0.068	0.305	0.373	0.068	0.102	0.95	1.02	0.72	0.75
		Right Tilted	0.581	0.048	0.305	0.373	0.054	0.116	0.93	1.00	0.68	0.75
		Left Cheek	0.581	0.054	0.305	0.373	0.081	0.135	0.94	1.01	0.72	0.77
		Left Tilted	0.581	0.038	0.305	0.373	0.060	0.148	0.92	0.99	0.68	0.77
LTE Band 26 Ant 0	FR1 n25 Ant1	Right Cheek	0.249	0.599	0.305	0.373	0.068	0.102	1.15	1.22	0.92	0.95
		Right Tilted	0.116	0.599	0.305	0.373	0.054	0.116	1.02	1.09	0.77	0.83
		Left Cheek	0.210	0.599	0.305	0.373	0.081	0.135	1.11	1.18	0.89	0.94
		Left Tilted	0.121	0.599	0.305	0.373	0.060	0.148	1.03	1.09	0.78	0.87
LTE Band 26 Ant1	FR1 n25 Ant 0	Right Cheek	0.580	0.044	0.305	0.373	0.068	0.102	0.93	1.00	0.69	0.73
		Right Tilted	0.580	0.032	0.305	0.373	0.054	0.116	0.92	0.99	0.67	0.73
		Left Cheek	0.580	0.049	0.305	0.373	0.081	0.135	0.93	1.00	0.71	0.76
		Left Tilted	0.580	0.029	0.305	0.373	0.060	0.148	0.91	0.98	0.67	0.76



**FCC SAR Test Report**

**Report No. : FA240834**

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	1+2+3	1+2+4	1+2+5	1+2+6
			WWAN	FR1	WLAN 2.4GHz Ant 2+9	WLAN 5GHz Ant 2+9	Bluetooth Ant 2	WLAN6GHz Ant 2+9	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 30 Ant 6	FR1 n25 Ant1	Right Cheek	0.136	0.599	0.305	0.373	0.068	0.102	1.04	1.11	0.80	0.84
		Right Tilted	0.100	0.599	0.305	0.373	0.054	0.116	1.00	1.07	0.75	0.82
		Left Cheek	0.175	0.599	0.305	0.373	0.081	0.135	1.08	1.15	0.86	0.91
		Left Tilted	0.070	0.599	0.305	0.373	0.060	0.148	0.97	1.04	0.73	0.82
LTE Band 30 Ant 6	FR1 n26 Ant1	Right Cheek	0.136	0.536	0.305	0.373	0.068	0.102	0.98	1.05	0.74	0.77
		Right Tilted	0.100	0.536	0.305	0.373	0.054	0.116	0.94	1.01	0.69	0.75
		Left Cheek	0.175	0.536	0.305	0.373	0.081	0.135	1.02	1.08	0.79	0.85
		Left Tilted	0.070	0.536	0.305	0.373	0.060	0.148	0.91	0.98	0.67	0.75
LTE Band 30 Ant 6	FR1 n66 Ant1	Right Cheek	0.136	0.598	0.305	0.373	0.068	0.102	1.04	1.11	0.80	0.84
		Right Tilted	0.100	0.598	0.305	0.373	0.054	0.116	1.00	1.07	0.75	0.81
		Left Cheek	0.175	0.598	0.305	0.373	0.081	0.135	1.08	1.15	0.85	0.91
		Left Tilted	0.070	0.598	0.305	0.373	0.060	0.148	0.97	1.04	0.73	0.82
LTE Band 30 Ant 6	FR1 n77Par270 HPUE Ant 5	Right Cheek	0.136	0.277	0.305	0.373	0.068	0.102	0.72	0.79	0.48	0.52
		Right Tilted	0.100	0.170	0.305	0.373	0.054	0.116	0.58	0.64	0.32	0.39
		Left Cheek	0.175	0.129	0.305	0.373	0.081	0.135	0.61	0.68	0.39	0.44
		Left Tilted	0.070	0.060	0.305	0.373	0.060	0.148	0.44	0.50	0.19	0.28
LTE Band 30 Ant 6	FR1 n77Par27Q HPUE Ant 5	Right Cheek	0.136	0.121	0.305	0.373	0.068	0.102	0.56	0.63	0.33	0.36
		Right Tilted	0.100	0.102	0.305	0.373	0.054	0.116	0.51	0.58	0.26	0.32
		Left Cheek	0.175	0.049	0.305	0.373	0.081	0.135	0.53	0.60	0.31	0.36
		Left Tilted	0.070	0.016	0.305	0.373	0.060	0.148	0.39	0.46	0.15	0.23
LTE Band 48 Ant3	FR1 n25 Ant1	Right Cheek	0.538	0.599	0.305	0.373	0.068	0.102	1.44	1.51	1.21	1.24
		Right Tilted	0.538	0.599	0.305	0.373	0.054	0.116	1.44	1.51	1.19	1.25
		Left Cheek	0.538	0.599	0.305	0.373	0.081	0.135	1.44	1.51	1.22	1.27
		Left Tilted	0.538	0.599	0.305	0.373	0.060	0.148	1.44	1.51	1.20	1.29
LTE Band 48 Ant3	FR1 n25 Ant 0	Right Cheek	0.538	0.044	0.305	0.373	0.068	0.102	0.89	0.96	0.65	0.68
		Right Tilted	0.538	0.032	0.305	0.373	0.054	0.116	0.88	0.94	0.62	0.69
		Left Cheek	0.538	0.049	0.305	0.373	0.081	0.135	0.89	0.96	0.67	0.72
		Left Tilted	0.538	0.029	0.305	0.373	0.060	0.148	0.87	0.94	0.63	0.72
LTE Band 48 Ant 4	FR1 n25 Ant1	Right Cheek	0.596	0.599	0.305	0.373	0.068	0.102	1.50	1.57	1.26	1.30
		Right Tilted	0.501	0.599	0.305	0.373	0.054	0.116	1.41	1.47	1.15	1.22
		Left Cheek	0.255	0.599	0.305	0.373	0.081	0.135	1.16	1.23	0.94	0.99
		Left Tilted	0.283	0.599	0.305	0.373	0.060	0.148	1.19	1.26	0.94	1.03
LTE Band 48 Ant 4	FR1 n25 Ant 0	Right Cheek	0.596	0.044	0.305	0.373	0.068	0.102	0.95	1.01	0.71	0.74
		Right Tilted	0.501	0.032	0.305	0.373	0.054	0.116	0.84	0.91	0.59	0.65
		Left Cheek	0.255	0.049	0.305	0.373	0.081	0.135	0.61	0.68	0.39	0.44
		Left Tilted	0.283	0.029	0.305	0.373	0.060	0.148	0.62	0.69	0.37	0.46
LTE Band 48 Ant 5	FR1 n25 Ant1	Right Cheek	0.107	0.599	0.305	0.373	0.068	0.102	1.01	1.08	0.77	0.81
		Right Tilted	0.075	0.599	0.305	0.373	0.054	0.116	0.98	1.05	0.73	0.79
		Left Cheek	0.073	0.599	0.305	0.373	0.081	0.135	0.98	1.05	0.75	0.81
		Left Tilted	0.060	0.599	0.305	0.373	0.060	0.148	0.96	1.03	0.72	0.81
LTE Band 48 Ant 5	FR1 n25 Ant 0	Right Cheek	0.107	0.044	0.305	0.373	0.068	0.102	0.46	0.52	0.22	0.25
		Right Tilted	0.075	0.032	0.305	0.373	0.054	0.116	0.41	0.48	0.16	0.22
		Left Cheek	0.073	0.049	0.305	0.373	0.081	0.135	0.43	0.50	0.20	0.26
		Left Tilted	0.060	0.029	0.305	0.373	0.060	0.148	0.39	0.46	0.15	0.24
LTE Band 48 Ant 8	FR1 n25 Ant1	Right Cheek	0.056	0.599	0.305	0.373	0.068	0.102	0.96	1.03	0.72	0.76
		Right Tilted	0.037	0.599	0.305	0.373	0.054	0.116	0.94	1.01	0.69	0.75
		Left Cheek	0.050	0.599	0.305	0.373	0.081	0.135	0.95	1.02	0.73	0.78
		Left Tilted	0.036	0.599	0.305	0.373	0.060	0.148	0.94	1.01	0.70	0.78
LTE Band 48 Ant 8	FR1 n25 Ant 0	Right Cheek	0.056	0.044	0.305	0.373	0.068	0.102	0.41	0.47	0.17	0.20
		Right Tilted	0.037	0.032	0.305	0.373	0.054	0.116	0.37	0.44	0.12	0.19
		Left Cheek	0.050	0.049	0.305	0.373	0.081	0.135	0.40	0.47	0.18	0.23
		Left Tilted	0.036	0.029	0.305	0.373	0.060	0.148	0.37	0.44	0.13	0.21

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