

FCC SAR Test Report

FCC ID : IHDT56AX9
Equipment : Mobile Cellular Phone
Brand Name : Motorola
Model Name : XT2715-1, XT2715-2, XT2715-3, XT2715V
Applicant : Motorola Mobility LLC
222 W. Merchandise Mart Plaza, Chicago, IL 60654, USA
Manufacturer : Motorola Mobility LLC
222 W. Merchandise Mart Plaza, Chicago, IL 60654, USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Aug. 14, 2026 and testing was started from Aug. 24, 2026 and completed on Oct. 08, 2026. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA672115	Rev. 01	Initial issue of report.	Sep. 22, 2026
FA672115	Rev. 02	Updated the Frequency Range of 5GNR n77 Part 270 and relevant data. This report is an updated version, replacing the report issued on Sep. 22, 2026.	Oct. 14, 2026

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2715-1, XT2715-2, XT2715-3, XT2715V**, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)	Highest Simultaneous Transmission 10g SAR (W/kg)
		Head (Separation: 0 mm)	Hotspot (Separation: 5 mm)	Body-worn (Separation: 5 mm)	Extremity (Separation: 0 mm)		
		1g SAR (W/kg)			10g SAR (W/kg)		
Licensed	GSM850	0.21	1.29	1.29	2.97	1.59	3.95
	GSM1900	0.05	1.28	0.86	1.06		
	WCDMA II	0.13	1.27	1.27	3.18		
	WCDMA IV	0.20	1.29	1.29	2.92		
	WCDMA V	0.19	1.23	1.23	1.64		
	LTE Band 7	0.63	1.29	1.29	3.16		
	LTE Band 12/17	0.73	0.61	0.83			
	LTE Band 13	0.73	1.27	1.27	2.00		
	LTE Band 14	0.76	1.25	1.25	1.66		
	LTE Band 25/2	0.89	1.20	1.28	3.17		
	LTE Band 26/5	0.88	1.27	1.27	2.38		
	LTE Band 30	0.30	1.29	1.29	3.18		
	LTE Band 66/4	0.89	1.06	1.29	3.14		
	LTE Band 71	0.71	0.61	0.86			
	LTE Band 41/38	0.41	1.27	1.27	2.95		
	LTE Band 48	0.84	0.62	0.81	1.48		
	FR1 n7	0.89	1.27	1.27	3.21		
	FR1 n12	0.72	0.61	0.89			
	FR1 n13	0.73	0.98	0.98			
	FR1 n14	0.24	0.94	0.94			
	FR1 n25/n2	0.87	1.22	0.99	3.20		
	FR1 n26/n5	0.88	1.22	1.22	1.45		
	FR1 n30	0.17	1.28	1.28	3.03		
	FR1 n66	0.81	1.26	1.28	2.45		
	FR1 n70	0.88	1.24	1.29	2.47		
	FR1 n71	0.53	0.61	0.64			
	FR1 n41	0.79	1.24	1.27	3.09		
	FR1 n48	0.88	0.62	0.88	2.47		
	FR1 n77/n78	0.79	1.06	1.06	2.44		
	DTS	2.4GHz WLAN	1.21	0.59	1.32		
NII	5GHz WLAN	1.14	0.68	1.17	2.82		
DSS	Bluetooth	0.19	0.14	0.14			
DXX	NFC				0.03		
Date of Testing:		2026/08/24 ~ 2026/10/08					

Remark:

1. This device supports LTE B2/4/5/17/38 and B25/66/26/12/41. Since the supported frequency span for LTE B2/4/5/17/38 falls completely within the support's frequency span for LTE B25/66/26/12/41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25/66/26/12/41.
2. This device supports 5GNR n5/n2/n78 and n26/n25/n77. Since the supported frequency span for 5GNR n5/n2/n78 falls completely within the support's frequency span for n26, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n26/n25/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.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. 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.

Reviewed by: Jason Wang

Report Producer: Carlie Tsai

2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- IEC/IEEE 62209-1528:2020
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02

3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2715-1, XT2715-2, XT2715-3, XT2715V
FCC ID	IHDT56AX9
IMEI Code	Sample 1: 355746920040812/355746920040820, 355746920040358/355746920040366 Sample 2: 355746920047890/355746920047808
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 n13: 777 MHz ~ 787 MHz 5G NR n14: 788 MHz ~ 798 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n30: 2305 MHz ~ 2315 MHz 5G NR 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 ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA

	DC-HSDPA HSPA+ (16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN 2.4GHz 802.11b/g/n/ax HT20/HT40/HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE NFC: ASK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark: 1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. 2. This device WLAN 2.4GHz support hotspot operation and Bluetooth support tethering applications. 3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). 4. This device supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). 5. This device does not support DTM operation and support GRPS/EGPRS mode up to multi-slot class 12. 6. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the MediaTek TA-SAR will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E. 7. For WLAN/BT, when transmitting simultaneously with WWAN/BT, WLAN power reduction will be activated for head exposure condition. For WLAN/BT, when transmitting simultaneously with WWAN and the proximity sensors are triggered, WLAN/BT power reduction will be activated for body-worn and handheld exposure conditions. 8. For BT, when transmitting simultaneously with WWAN/WLAN, BT power reduction will be activated for head exposure condition. For WLAN/BT, when transmitting simultaneously with WWAN and the proximity sensors are triggered, BT power reduction will be activated for body-worn and handheld exposure conditions. 9. This device supports HPUE mode for LTE Band41 and 5GNR n41/n77/n78 with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same. Therefore, power class 3 was chosen to perform full SAR testing and power class 2 verified the worst case of power class 3 SAR. 10. For 5GNR n41/n77/n78 HPUE, 5GNR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing. 11. 5GNR n2/n7/n25/n41/n66/n77 supports UL MIMO mode and HPUE mode under MIMO operation. 12. The device supports HPUE (power class 2) under SISO mode and HPUE (power class 1.5) under UL MIMO mode for 5G NR n41/n77. 13. For 5G NR band, SAR testing was performed using FTM (Factory Test Mode) with default 100% duty cycle. 14. There are three samples. The differences between them are described in the XT2715-1, XT2715-2, XT2715-3, XT2715V_Operational Description of Product Equality Declaration, which is provided separately. According to the differences, sample 1 was chosen to perform full SAR testing and sample 2 was used to verify the worst case of sample 1. For sample 3, the differences do not affect the test results; therefore, sample 3 are not tested. 15. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.	

<5G NR>

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

3.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																													
FCC ID	IHDT56AX9																																																																												
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																																																																												
CA Support	Supported, Uplink and Downlink																																																																												
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
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16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																						
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256 QAM	≥ 1						≤ 5																																																																						
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																												
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																												
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body-worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to the operational description and 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 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		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	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		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	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23230		782	
M	23230		782		23230		782		23230		782	
H	23255		784.5		23230		782		23230		782	
LTE Band 14												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Channel #		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23305		790.5		23330		793		23330		793	
M	23330		793		23330		793		23330		793	
H	23355		795.5		23330		793		23330		793	
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23780		709	
M	23790		710		23790		710		23790		710	
H	23825		713.5		23800		711		23800		711	
LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26633	1909.3	26625	1908.5	26615	1907.5	26590	1905	26565	1902.5	26540	1900

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

LTE Band 30				
	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	27685	2307.5	27710	2310
M	27710	2310		
H	27735	2312.5		

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

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

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

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

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

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

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

2) LTE Bands tune up:

Band	Antenna	Full Power	ECI2	ECI3	ECI7	ECI6	ECI4
		Tune-up Limit	Head	Body-worn	Hotspot	Extremity	Sensor off
LTE Band 5	Ant 0	24	24	24	24	24	24
LTE Band 26	Ant 0	24	24	24	24	24	24
LTE Band 5	Ant 4	24	23.1	23.2	20.6	24	24
LTE Band 26	Ant 4	24	23.1	23.2	20.6	24	24
LTE Band 12	Ant 0	24	24	24	24	24	24
LTE Band 17	Ant 0	24	24	24	24	24	24
LTE Band 12	Ant 4	24	24	24	21.9	24	24
LTE Band 17	Ant 4	24	24	24	21.9	24	24
LTE Band 2	Ant 0	24	24	22.5	20	23.8	24
LTE Band 2 PA (Reference Designator)	Ant 0	24	24	22.5	20	23.8	24
LTE Band 25	Ant 0	24	24	22.5	20	23.8	24
LTE Band 2	Ant 4	24	19.4	21	17.5	22.6	24
LTE Band 2 PA (Reference Designator)	Ant 4	24	19.4	21	17.5	22.6	24
LTE Band 25	Ant 4	24	19.4	21	17.5	22.6	24
LTE Band 4	Ant 0	24	24	21.5	19.5	23.4	24
LTE Band 66	Ant 0	24	24	21.5	19.5	23.4	24
LTE Band 4 PA (Reference Designator)	Ant 0	24	24	21.5	19.5	23.4	24
LTE Band 66 PA (Reference Designator)	Ant 0	24	24	21.5	19.5	23.4	24
LTE Band 4	Ant 4	24	20.5	20.3	17.7	21.8	24
LTE Band 66	Ant 4	24	20.5	20.3	17.7	21.8	24
LTE Band 4 PA (Reference Designator)	Ant 4	24	20.5	20.3	17.7	21.8	24
LTE Band 66 PA (Reference Designator)	Ant 4	24	20.5	20.3	17.7	21.8	24
LTE Band 38	Ant 1	24	24	24	24	24	24
LTE Band 41	Ant 1	24	24	24	24	24	24
LTE Band 41_HPUE	Ant 1	27	27	25.6	25.6	27	27

3.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14: 788 MHz ~ 798 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n30: 2305 MHz ~ 2315 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70: 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz
Channel Bandwidth	The detail please refers to section 3.1 5GNR FR1 bands table.
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B4/5/7/12/13/14/30/48/66/71
LTE Anchor Bands for n5	LTE B66/2/48/30/4/7
LTE Anchor Bands for n7	LTE B2/4/5/66
LTE Anchor Bands for n25	LTE B7/12/66
LTE Anchor Bands for n30	LTE B2/66
LTE Anchor Bands for n41	LTE B2/12/25/4/5/66/71
LTE Anchor Bands for n48	LTE B2/5/66/71
LTE Anchor Bands for n66	LTE B71/13/12/14/2/30/48/5/7
LTE Anchor Bands for n71	LTE B2/48/66/7
TE Anchor Bands for n77	LTE B2/5/66/13/12/14/25/30/41/71/7
LTE Anchor Bands for n78	LTE B12/13/25/2/38/4/5/66/71/7

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

NR Band 5									
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 165300	826.5	165800	829	166300	831.5	166800	834	167300	836.5
M 167300	836.5	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H 169300	846.5	168800	844	168300	841.5	167800	839		

NR Band 7																	
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 50MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	503500	2517.5	504000	2520	505000	2525
M 507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H 513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510500	2552.5	510000	2550	509000	2545

NR Band 12									
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz	
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L 140300	701.5	140800	704	141300	706.5	141800	709	142300	711.5
M 141500	707.5	141500	707.5	141500	707.5	141500	707.5	141500	707.5
H 142700	713.5	142200	711	141700	708.5				

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

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

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

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

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

NR Band 66																		
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 45MHz	
	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	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000	1730	346500	1732.5
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352500	1762.5	352000	1760	351500	1757.5

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

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

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



NR Band 77

	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
LM	654168	3812.52	654250	3813.75	654334	3815.01	654418	3816.27	654500	3817.5	654668	3820.02	654834	3822.51	655000	3825	655168	3827.52	655334	3830.01	655500	3832.5	655668	3835.02
MM	661334	3920.01	661334	3920.01	661334	3920.01	661334	3920.01	661334	3920.01	661334	3920.01	661334	3920.01	661334	3920.01	661334	3920.01	661334	3920.01	661334	3920.01	661334	3920.01
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.5	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930

NR Band 78 SCS30KHz

	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
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	3787.5	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		

NR Band 48

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

NR Band 77

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

NR Band 78 SCS30KHz

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

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

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

2) NR Bands Tune up:

Band	Antenna	Full Power Tune-up Limit	ECI2	ECI3	ECI7	ECI6	ECI4
			Head Tune-up Limit	Body-worn Tune-up Limit	Hotspot Tune-up Limit	Extremity Tune-up Limit	Sensor off Tune-up Limit
FR1 n5	Ant 0	24	24	24	24	24	24
FR1 n26	Ant 0	24	24	24	24	24	24
FR1 n5	Ant 4	24	23.8	22.5	21.5	24	24
FR1 n26	Ant 4	24	23.8	22.5	21.5	24	24
FR1 n2	Ant 0	24	24	22.3	20.5	23.9	24
FR1 n25	Ant 0	24	24	22.3	20.5	23.9	24
FR1 n2 PA (Reference Designator)	Ant 0	24	24	22.3	20.5	23.9	24
FR1 n25 PA (Reference Designator)	Ant 0	24	24	22.3	20.5	23.9	24
FR1 n2	Ant 4	24	19.8	21	17.9	21.8	24
FR1 n25	Ant 4	24	19.8	21	17.9	21.8	24
FR1 n2 PA (Reference Designator)	Ant 4	24	19.8	21	17.9	21.8	24
FR1 n25 PA (Reference Designator)	Ant 4	24	19.8	21	17.9	21.8	24
FR1 n77	Ant 5	24	18	17.5	15.5	23.4	24
FR1 n77_HPUE	Ant 5	27	21	20.5	18.5	26.4	27
FR1 n78	Ant 5	24	18	17.5	15.5	23.4	24
FR1 n78_HPUE	Ant 5	27	21	20.5	18.5	26.4	27
FR1 n77	Ant 3	19	14.5	12.2	10.5	19	19
FR1 n77 PA (Reference Designator)	Ant 3	24	19.5	17.2	15.5	24	24
FR1 n77_HPUE	Ant 3	22	17.5	15.2	13.5	22	22
FR1 n77_HPUE PA (Reference Designator)	Ant 3	27	22.5	20.2	18.5	27	27
FR1 n78	Ant 3	19	14.5	12.2	10.5	19	19
FR1 n78_HPUE	Ant 3	22	17.5	15.2	13.5	22	22
FR1 n77	Ant 8	25	25	14.4	12.5	20.6	25
FR1 n77_HPUE	Ant 8	26	26	17.4	15.5	23.6	26
FR1 n78	Ant 8	25	25	14.4	12.5	20.6	25
FR1 n78_HPUE	Ant 8	26	26	17.4	15.5	23.6	26
FR1 n77	Ant 1	19	19	19	19	19	19
FR1 n77 PA (Reference Designator)	Ant 1	24	24	24	24	24	24
FR1 n77_HPUE	Ant 1	22	22	22	22	22	22
FR1 n77_HPUE PA (Reference Designator)	Ant 1	27	27	27	27	27	27
FR1 n78	Ant 1	19	19	19	19	19	19
FR1 n78_HPUE	Ant 1	22	22	22	22	22	22

4. TA-SAR feature for RF Exposure compliance

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

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

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

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

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

<Terminologies in this report>

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

<SAR Characterization>

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

SPLSR_Group (Antenna Group):

Antenna Group 0 (AG0)	ANT0 & ANT1
Antenna Group 1 (AG1)	ANT2 & ANT3 & ANT4 & ANT5 & ANT7 & ANT8

<SAR design target and uncertainty>

Item	Uncertainty dB (k=2)
Total uncertainty	1.5

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

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

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

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

<Plimit for supported technologies and bands >

Band	Antenna	Head ECI 2	Body-Worn ECI 3	Hotspot ECI 7	Extremity ECI 6	Sensor off ECI 4	Pmax*
GSM850 GPRS (4 Tx slots)	Ant 0	33.3	22.4	22.4	25.8	25.5	25.5
GSM1900 GPRS (2 Tx slots)	Ant 0	36.3	22.5	19.8	27.2	22.5	22.5
WCDMA II	Ant 0	32.8	21.3	19.3	23.0	23.0	23.0
WCDMA IV	Ant 0	31.0	20.2	19.2	23.4	23.0	23.0
WCDMA V	Ant 0	31.4	23.2	23.0	25.9	23.0	23.0
LTE Band 7	Ant 1	26.1	19.6	19.6	22.1	23.0	23.0
LTE Band 12(17)	Ant 0	30.1	26.7	26.7	23.0	23.0	23.0
LTE Band 12(17)	Ant 4	23.0	23.0	20.9	23.0	23.0	23.0
LTE Band 13	Ant 0	30.0	23.0	23.0	25.0	23.0	23.0
LTE Band 13	Ant 4	23.0	23.0	21.5	23.0	23.0	23.0
LTE Band 14	Ant 0	28.7	23.0	23.1	25.8	23.0	23.0
LTE Band 14	Ant 4	23.0	23.0	21.5	23.0	23.0	23.0
LTE Band 25(2)	Ant 0	31.2	21.5	19.0	22.8	23.0	23.0
LTE Band 2 PA (Reference Designator)	Ant 0	31.2	21.5	19.0	22.8	23.0	23.0
LTE Band 25(2)	Ant 4	18.4	20.0	16.5	21.6	23.0	23.0
LTE Band 2 PA (Reference Designator)	Ant 4	18.4	20.0	16.5	21.6	23.0	23.0
LTE Band 26(5)	Ant 0	30.0	23.1	23.1	24.3	23.0	23.0
LTE Band 26(5)	Ant 4	22.1	22.2	19.6	25.4	23.0	23.0
LTE Band 30	Ant 1	29.3	21.5	21.5	22.1	23.0	23.0
LTE Band 66(4)	Ant 0	29.7	20.5	18.5	22.4	23.0	23.0
LTE Band 66(4)PA (Reference Designator)	Ant 0	29.7	20.5	18.5	22.4	23.0	23.0
LTE Band 66(4)	Ant 4	19.5	19.3	16.7	20.8	23.0	23.0
LTE Band 66(4)PA (Reference Designator)	Ant 4	19.5	19.3	16.7	20.8	23.0	23.0
LTE Band 71	Ant 0	31.3	27.6	27.6	23.0	23.0	23.0
LTE Band 71	Ant 4	24.0	23.1	23.0	23.0	23.0	23.0
LTE Band 41(38)	Ant 1	27.4	21.0	21.0	22.7	22.4	21.0
LTE Band 41_HPUE	Ant 1	27.4	21.0	21.0	22.7	22.4	22.4
LTE Band 48	Ant 5	17.8	18.5	16.7	23.3	21.0	21.0
FR1 n7	Ant 1	27.8	20.3	20.3	22.6	23.0	23.0
FR1 n7	Ant 4	16.3	15.9	12.8	22.0	23.0	23.0
FR1 n12	Ant 0	32.6	27.8	27.0	23.0	23.0	23.0
FR1 n12	Ant 4	23.9	22.9	21.8	23.0	23.0	23.0
FR1 n13	Ant 0	31.0	24.2	24.2	23.0	23.0	23.0
FR1 n13	Ant 4	23.8	23.5	21.7	23.0	23.0	23.0
FR1 n14	Ant 0	30.3	24.3	24.3	23.0	23.0	23.0
FR1 n25(2)	Ant 0	32.9	21.3	19.5	22.9	23.0	23.0
FR1 n25(2)PA (Reference Designator)	Ant 0	32.9	21.3	19.5	22.9	23.0	23.0
FR1 n25(2)	Ant 4	18.8	20.0	16.9	20.8	23.0	23.0
FR1 n25(2)PA (Reference Designator)	Ant 4	18.8	20.0	16.9	20.8	23.0	23.0
FR1 n26(5)	Ant 0	30.6	23.2	23.2	26.4	23.0	23.0
FR1 n26(5)	Ant 4	22.8	21.5	20.5	23.0	23.0	23.0
FR1 n30	Ant 1	31.8	21.5	21.5	23.2	23.0	23.0
FR1 n66	Ant 0	31.6	20.4	19.2	24.3	23.0	23.0
FR1 n66 PA (Reference Designator)	Ant 0	31.6	20.4	19.2	24.3	23.0	23.0
FR1 n66	Ant 4	19.5	20.0	16.9	21.1	23.0	23.0
FR1 n66 PA (Reference Designator)	Ant 4	19.5	20.0	16.9	21.1	23.0	23.0

FR1 n70	Ant 0	32.2	21.1	20.0	24.6	23.0	23.0
FR1 n70	Ant 4	19.7	20.6	18.2	22.0	22.0	22.0
FR1 n71	Ant 0	32.2	28.1	28.0	23.0	23.0	23.0
FR1 n71	Ant 4	25.2	24.4	22.8	23.0	23.0	23.0
FR1 n41	Ant 1	26.5	21.1	21.0	23.1	23.0	23.0
FR1 n41_HPUE	Ant 1	26.5	21.1	21.0	23.1	23.0	23.0
FR1 n41	Ant 4	16.0	16.2	12.5	21.8	23.0	23.0
FR1 n41_HPUE	Ant 4	16.0	16.2	12.5	21.8	23.0	23.0
FR1 n41 PA (Reference Designator)	Ant 4	16.0	16.2	12.5	21.8	23.0	23.0
FR1 n41_HPUE PA (Reference Designator)	Ant 4	16.0	16.2	12.5	21.8	23.0	23.0
FR1 n41	Ant 2	23.8	17.0	14.0	20.0	20.0	20.0
FR1 n41_HPUE	Ant 2	23.8	17.0	14.0	20.0	20.0	20.0
FR1 n41 PA (Reference Designator)	Ant 2	23.8	17.0	14.0	20.0	20.0	20.0
FR1 n41_HPUE PA (Reference Designator)	Ant 2	23.8	17.0	14.0	20.0	20.0	20.0
FR1 n41	Ant 7	19.0	22.7	18.7	20.0	20.0	20.0
FR1 n41_HPUE	Ant 7	19.0	22.7	18.7	20.0	20.0	20.0
FR1 n48	Ant 5	18.0	18.5	17.0	21.7	23.0	23.0
FR1 n48	Ant 3	19.0	21.9	19.0	19.0	19.0	19.0
FR1 n48	Ant 8	26.5	13.7	12.5	19.9	23.0	23.0
FR1 n48	Ant 1	34.8	23.8	18.0	18.0	18.0	18.0
FR1 n77(78)	Ant 5	17.0	16.5	14.5	22.4	23.0	23.0
FR1 n77(78)_HPUE	Ant 5	17.0	16.5	14.5	22.4	23.0	23.0
FR1 n77(78)	Ant 3	13.5	11.2	9.5	18.0	18.0	18.0
FR1 n77(78)_HPUE	Ant 3	13.5	11.2	9.5	18.0	18.0	18.0
FR1 n77 PA (Reference Designator)	Ant 3	18.5	16.2	14.5	23.0	23.0	23.0
FR1 n77_HPUE PA (Reference Designator)	Ant 3	18.5	16.2	14.5	23.0	23.0	23.0
FR1 n77(78)	Ant 8	26.1	13.4	11.5	19.6	24.0	24.0
FR1 n77(78)_HPUE	Ant 8	26.1	13.4	11.5	19.6	22.0	22.0
FR1 n77(78)	Ant 1	18.0	18.0	18.0	18.0	18.0	18.0
FR1 n77(78)_HPUE	Ant 1	18.0	18.0	18.0	18.0	18.0	18.0
FR1 n77 PA (Reference Designator)	Ant 1	23.0	23.0	23.0	23.0	23.0	23.0
FR1 n77_HPUE PA (Reference Designator)	Ant 1	23.0	23.0	23.0	23.0	23.0	23.0

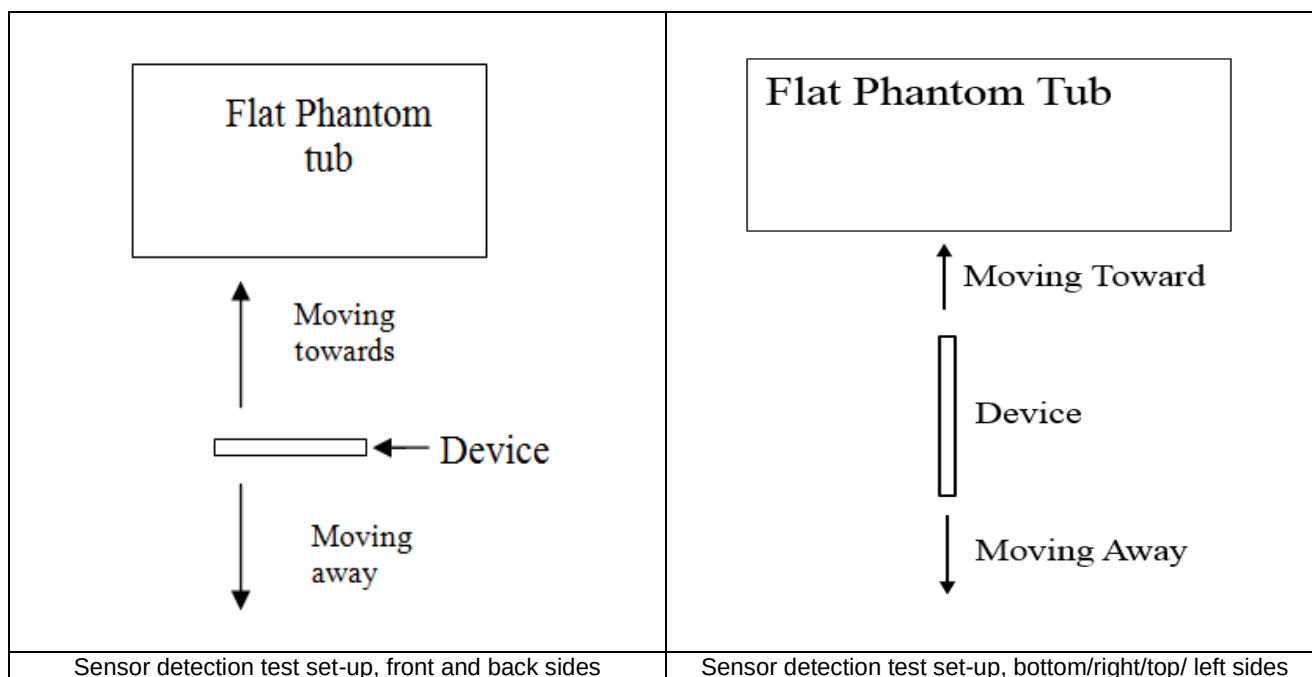
Note:

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

5. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (5825MHz) 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. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
3. 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.
4. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or top or bottom or right or left side of the device use a detection threshold distance. When front/back/top/bottom/right/left sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
5. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.



<P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	20	24	26	32

<Handheld for ANT 0>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	10	16	20	25	7	13	16	21

<Handheld for ANT 1>

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	8	14	16	22	6	11	12	17

<Handheld for ANT 3&4>

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	8	14	17	21	7	12	14	19

<Handheld for ANT 5&6>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	10	14	14	18	9	14	13	18

<Handheld for ANT8>

Proximity Sensor Triggering Distance (mm)		
Position	Back	
	Moving towards	Moving away
Minimum	4	12

6. RF Exposure Limits

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

7. Specific Absorption Rate (SAR)

7.1 Introduction

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

7.2 SAR Definition

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

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

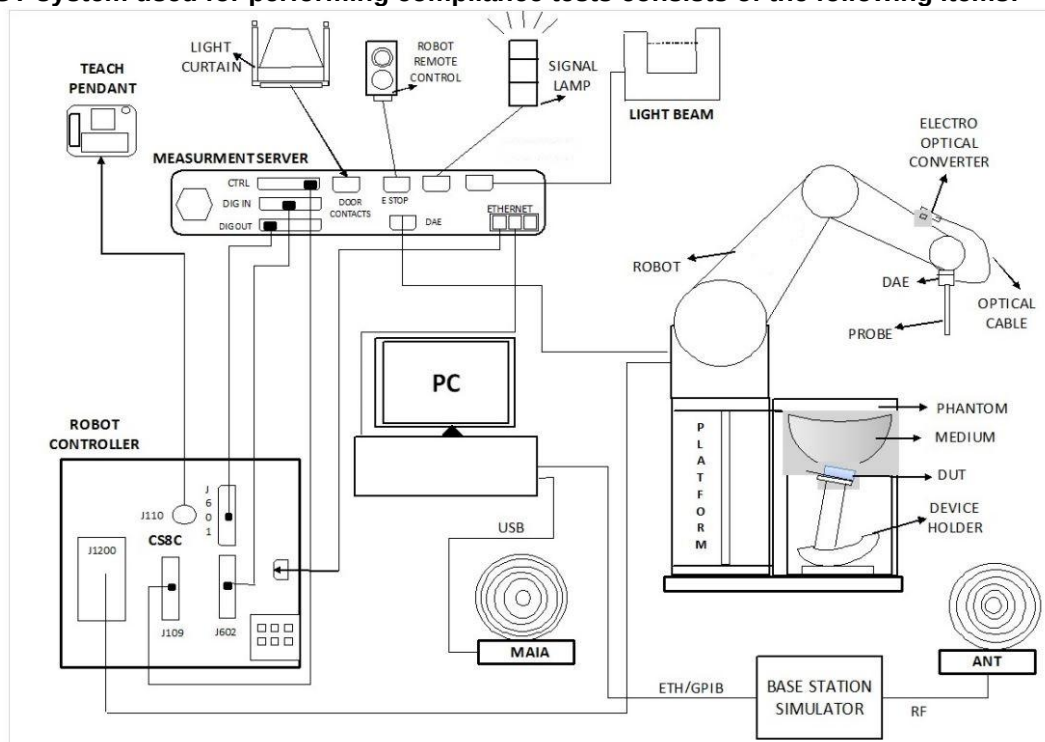
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

8. System Description and Setup

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



- The DASY system in SAR Configuration is shown above
- 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 windows software and the DASY 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 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Laboratory	Wensan Laboratory	
Test Site Location	TW3786 No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010	
Test Site No.	SAR10-HY	SAR16-HY

8.2 E-Field Probe

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

< EX3DV4 Probe >

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – > 6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

< ES3DV3 Probe >

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – > 100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

8.3 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.

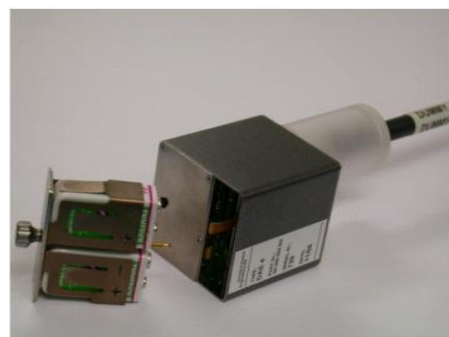


Fig 5.1 Photo of DAE

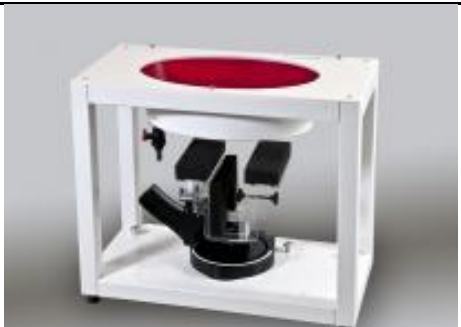
8.4 Phantom

< SAM Twin Phantom >

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

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

< ELI Phantom >

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

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

8.5 Device Holder

<Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

9. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

9.1 Spatial Peak SAR Evaluation

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

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

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

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

9.2 Power Reference Measurement

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

9.3 Area Scan

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

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

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

9.4 Zoom Scan

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

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

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

9.5 Volume Scan Procedures

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

9.6 Power Drift Monitoring

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

10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	13MHz System Validation Kit	CLA13	1022	Sep. 12, 2025	Sep. 10, 2027
SPEAG	750MHz System Validation Kit	D750V3	1117	Mar. 12, 2025	Mar. 10, 2027
SPEAG	750MHz System Validation Kit	D750V3	1107	Jun. 11, 2025	Jun. 09, 2027
SPEAG	835MHz System Validation Kit	D835V2	4d167	Apr. 23, 2026	Apr. 22, 2027
SPEAG	1750MHz System Validation Kit	D1750V2	1112	Feb. 20, 2025	Feb. 18, 2027
SPEAG	1900MHz System Validation Kit	D1900V2	5d185	Jun. 11, 2025	Jun. 09, 2027
SPEAG	2300MHz System Validation Kit	D2300V2	1006	Jan. 14, 2025	Jan. 12, 2027
SPEAG	2450MHz System Validation Kit	D2450V2	929	Nov. 12, 2025	Nov. 11, 2026
SPEAG	2600MHz System Validation Kit	D2600V2	1078	Jun. 11, 2025	Jun. 09, 2027
SPEAG	3500MHz System Validation Kit	D3500V2	1014	Jan. 15, 2025	Jan. 13, 2027
SPEAG	3700MHz System Validation Kit	D3700V2	1006	Jun. 12, 2025	Jun. 10, 2027
SPEAG	3900MHz System Validation Kit	D3900V2	1092	May. 11, 2026	May. 10, 2027
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Oct. 15, 2024	Oct. 13, 2026
SPEAG	Data Acquisition Electronics	DAE4	1694	Oct. 15, 2025	Oct. 14, 2026
SPEAG	Data Acquisition Electronics	DAE4	1647	Oct. 20, 2025	Oct. 19, 2026
SPEAG	Data Acquisition Electronics	DAE4	661	May. 13, 2026	May. 12, 2027
SPEAG	Data Acquisition Electronics	DAE4	1776	Feb. 13, 2026	Feb. 12, 2027
SPEAG	Data Acquisition Electronics	DAE4	1805	May. 19, 2026	May. 18, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	7695	Aug. 14, 2026	Aug. 13, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	7785	Nov. 26, 2025	Nov. 25, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7700	Jan. 26, 2026	Jan. 25, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	3976	Jan. 27, 2026	Jan. 26, 2027
SPEAG	Dosimetric E-Field Probe	EX3DV4	7590	Mar. 17, 2026	Mar. 16, 2027
SPEAG	Dielectric Probe Kit	DAK-12	1156	Jul. 13, 2026	Jul. 12, 2027
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 16, 2025	Sep. 15, 2026
SPEAG	Dielectric Probe Kit	DAK-3.5	1270	May. 11, 2026	May. 10, 2027
Testo	Hygro meter	608-H1	45196600	Nov. 04, 2025	Nov. 03, 2026
Testo	Hygro meter	608-H1	45207528	Nov. 04, 2025	Nov. 03, 2026
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Nov. 20, 2025	Nov. 19, 2026
R&S	Wideband Radio Communication Tester	CMX500	101866	Apr. 08, 2026	Apr. 07, 2027
R&S	BT Base Station	CBT	101136	Oct. 29, 2025	Oct. 28, 2026
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 24, 2025	Sep. 23, 2026
Anritsu	Signal Generator	MG3692C	113508	Jan. 22, 2026	Jan. 21, 2027
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 14, 2025	Oct. 13, 2026
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3902	Feb. 23, 2026	Feb. 22, 2027
Anritsu	Power Meter	ML2496A	2119003	Jul. 23, 2026	Jul. 22, 2027
R&S	Power Sensor	NRP8S	109687	Sep. 22, 2025	Sep. 21, 2026
Anritsu	Power Sensor	MA2411B	1911333	Jul. 30, 2026	Jul. 29, 2027
Anritsu	Spectrum Analyzer	N9010A	MY53470118	Sep. 09, 2025	Sep. 08, 2026
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 06, 2026	Jul. 05, 2027
Mini-Circuits	Power Amplifier	ZVE-8G+	D120604	Oct. 17, 2025	Oct. 16, 2026
Mini-Circuits	Power Amplifier	ZHL-42W+	QA1344002	Oct. 17, 2025	Oct. 16, 2026
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4B1	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005- 3	N/A	Note 1	

Note:

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

11. System Verification

11.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The depth of the tissue-equivalent liquid in the phantom was at least 15 cm for all SAR testing.

The SPEAG Dasy Measurement system implement a SAR error compensation algorithm as documented in IEEE Std 1528-2013 to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, according to KDB 865664 D01 and IEC/IEEE 62209-1528, the tolerance for "Delta (σ)" and "Delta (ϵ_r)" can be relaxed to $\pm 10\%$

< Tissue Dielectric Parameter Check Results >

Frequency (MHz)	Liquid Temp (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
13	22.6	0.758	55.4	0.75	55.0	1.07	0.73	± 10.0	2026-09-06
750	22.4	0.906	42.8	0.89	41.9	1.80	2.15	± 10.0	2026-08-24
750	22.5	0.903	42.7	0.89	41.9	1.46	1.91	± 10.0	2026-08-25
750	22.4	0.88	42.3	0.89	41.9	-1.12	0.95	± 10.0	2026-08-27
750	22.5	0.908	42.4	0.89	41.9	2.02	1.19	± 10.0	2026-08-29
750	22.1	0.887	45.1	0.89	41.9	-0.34	7.64	± 10.0	2026-09-01
750	22.5	0.9	42.2	0.89	41.9	1.12	0.72	± 10.0	2026-09-18
750	22.5	0.884	42.7	0.89	41.9	-0.67	1.91	± 10.0	2026-09-19
835	22.4	0.938	42.6	0.90	41.5	4.22	2.65	± 10.0	2026-08-24
835	22.5	0.935	42.6	0.90	41.5	3.89	2.65	± 10.0	2026-08-25
835	22.4	0.909	42	0.90	41.5	1.00	1.20	± 10.0	2026-08-27
835	22.5	0.941	42.2	0.90	41.5	4.56	1.69	± 10.0	2026-08-29
835	22.1	0.915	44.9	0.90	41.5	1.67	8.19	± 10.0	2026-09-01
835	22.5	0.96	43.6	0.90	41.5	6.67	5.06	± 10.0	2026-09-08
1750	22.6	1.38	40.9	1.37	40.1	0.73	2.00	± 10.0	2026-08-26
1750	22.5	1.37	40.8	1.37	40.1	0.00	1.75	± 10.0	2026-08-27
1750	22.5	1.3	41.8	1.37	40.1	-5.11	4.24	± 10.0	2026-08-28
1750	22.5	1.38	41.9	1.37	40.1	0.73	4.49	± 10.0	2026-08-30
1750	22.5	1.38	40.3	1.37	40.1	0.73	0.50	± 10.0	2026-09-15
1750	22.5	1.37	41.1	1.37	40.1	0.00	2.49	± 10.0	2026-09-16
1750	22.5	1.38	40.3	1.37	40.1	0.73	0.50	± 10.0	2026-09-17
1900	22.6	1.47	40.7	1.40	40.0	5.00	1.75	± 10.0	2026-08-26
1900	22.5	1.46	40.6	1.40	40.0	4.29	1.50	± 10.0	2026-08-27
1900	22.5	1.38	41.5	1.40	40.0	-1.43	3.75	± 10.0	2026-08-28
1900	22.5	1.47	41.7	1.40	40.0	5.00	4.25	± 10.0	2026-08-30
1900	22.5	1.45	40.8	1.40	40.0	3.57	2.00	± 10.0	2026-09-16
1900	22.5	1.46	40.1	1.40	40.0	4.29	0.25	± 10.0	2026-09-17
2300	22.5	1.73	41.1	1.67	39.5	3.59	4.05	± 10.0	2026-08-28
2300	22.3	1.66	40.7	1.67	39.5	-0.60	3.04	± 10.0	2026-08-29
2450	22.3	1.84	39.6	1.80	39.2	2.22	1.02	± 10.0	2026-09-03
2450	22.3	1.82	39.3	1.80	39.2	1.11	0.26	± 10.0	2026-09-03
2450	22.4	1.81	39.4	1.80	39.2	0.56	0.51	± 10.0	2026-09-04
2600	22.5	1.96	40.7	1.96	39.0	0.00	4.36	± 10.0	2026-08-28
2600	22.3	1.89	40.2	1.96	39.0	-3.57	3.08	± 10.0	2026-08-29
2600	22.3	1.94	39	1.96	39.0	-1.02	0.00	± 10.0	2026-09-03
2600	22.4	1.93	39.5	1.96	39.0	-1.53	1.28	± 10.0	2026-09-04
2600	22.5	1.9	39.3	1.96	39.0	-3.06	0.77	± 10.0	2026-09-05
2600	22.5	1.94	40.5	1.96	39.0	-1.02	3.85	± 10.0	2026-09-07
2600	22.5	1.84	38.3	1.96	39.0	-6.12	-1.79	± 10.0	2026-09-08
2600	22.5	1.94	39.9	1.96	39.0	-1.02	2.31	± 10.0	2026-09-09
2600	22.5	1.95	40.6	1.96	39.0	-0.51	4.10	± 10.0	2026-09-10
2600	22.5	1.85	38.4	1.96	39.0	-5.61	-1.54	± 10.0	2026-09-11
3500	22.2	2.66	38.5	2.91	37.9	-8.59	1.58	± 10.0	2026-08-30
3500	22.1	2.71	37.5	2.91	37.9	-6.87	-1.06	± 10.0	2026-08-31
3500	22.2	2.72	39.1	2.91	37.9	-6.53	3.17	± 10.0	2026-09-02
3500	22.2	2.8	40	2.91	37.9	-3.78	5.54	± 10.0	2026-09-02



FCC SAR Test Report

Report No. : FA672115

3500	22.1	2.73	38	2.91	37.9	-6.19	0.26	±10.0	2026-09-06
3500	22.5	2.74	38	2.91	37.9	-5.84	0.26	±10.0	2026-09-07
3700	22.2	2.83	38.2	3.12	37.7	-9.29	1.33	±10.0	2026-08-30
3700	22.1	2.89	37.1	3.12	37.7	-7.37	-1.59	±10.0	2026-08-31
3700	22.2	2.9	38.8	3.12	37.7	-7.05	2.92	±10.0	2026-09-02
3700	22.2	2.99	39.7	3.12	37.7	-4.17	5.31	±10.0	2026-09-02
3700	22.1	2.91	37.7	3.12	37.7	-6.73	0.00	±10.0	2026-09-06
3700	22.5	2.92	37.7	3.12	37.7	-6.41	0.00	±10.0	2026-09-07
3700	22.5	2.89	38.4	3.12	37.7	-7.37	1.86	±10.0	2026-09-12
3700	22.5	2.96	37.6	3.12	37.7	-5.13	-0.27	±10.0	2026-09-13
3700	22.5	2.83	37.5	3.12	37.7	-9.29	-0.53	±10.0	2026-09-14
3900	22.2	3.04	38	3.33	37.5	-8.71	1.33	±10.0	2026-08-30
3900	22.1	3.09	36.8	3.33	37.5	-7.21	-1.87	±10.0	2026-08-31
3900	22.2	3.09	38.6	3.33	37.5	-7.21	2.93	±10.0	2026-09-02
3900	22.2	3.18	39.4	3.33	37.5	-4.50	5.07	±10.0	2026-09-02
3900	22.1	3.11	37.4	3.33	37.5	-6.61	-0.27	±10.0	2026-09-06
3900	22.5	3.12	37.4	3.33	37.5	-6.31	-0.27	±10.0	2026-09-07
3900	22.5	3.13	37.3	3.33	37.5	-6.01	-0.53	±10.0	2026-09-13
3900	22.5	3.02	37.2	3.33	37.5	-9.31	-0.80	±10.0	2026-09-14
5250	22.3	4.56	34.7	4.71	36.0	-3.18	-3.61	±10.0	2026-09-03
5250	22.5	4.6	36.2	4.71	36.0	-2.34	0.56	±10.0	2026-09-05
5600	22.3	4.94	34	5.07	35.5	-2.56	-4.23	±10.0	2026-09-03
5600	22.5	4.99	35.6	5.07	35.5	-1.58	0.28	±10.0	2026-09-05
5800	22.3	5.19	33.7	5.27	35.3	-1.52	-4.53	±10.0	2026-09-03
5800	22.5	5.23	35.3	5.27	35.3	-0.76	0.00	±10.0	2026-09-05
2450	22.5	1.71	38.5	1.80	39.2	-5.00	-1.79	±10.0	2026-09-23
3900	22.8	3.07	37.3	3.33	37.5	-7.81	-0.53	±10.0	2026-10-08

11.2 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.

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR16	2026-09-06	13	1000	CLA-13 - SN1022	EX3DV4 - SN7695	DAE4 Sn1647	0.491	0.536	0.491	-8.40	0.308	0.337	0.308	-8.61
SAR16	2026-08-24	750	251.189	D750V3 - SN1107	EX3DV4 - SN7785	DAE4 Sn1694	2.14	8.84	8.5195	-3.63	1.44	5.81	5.7327	-1.33
SAR16	2026-08-25	750	251.189	D750V3 - SN1107	EX3DV4 - SN7785	DAE4 Sn1694	2.12	8.84	8.4399	-4.53	1.43	5.81	5.6929	-2.02
SAR10	2026-08-27	750	251.189	D750V3 - SN1107	EX3DV4 - SN7700	DAE4 Sn661	2.33	8.84	9.2759	4.93	1.56	5.81	6.2105	6.89
SAR16	2026-08-29	750	251.189	D750V3 - SN1107	EX3DV4 - SN7785	DAE4 Sn1694	2.26	8.84	8.9972	1.78	1.52	5.81	6.0512	4.15
SAR16	2026-09-01	750	251.189	D750V3 - SN1117	EX3DV4 - SN7785	DAE4 Sn1694	2.14	8.6	8.5195	-0.94	1.43	5.57	5.6929	2.21
SAR16	2026-09-18	750	251.189	D750V3 - SN1107	EX3DV4 - SN7695	DAE4 Sn1647	2.18	8.84	8.6787	-1.82	1.46	5.81	5.8124	0.04
SAR16	2026-09-19	750	251.189	D750V3 - SN1107	EX3DV4 - SN7695	DAE4 Sn1647	2.17	8.84	8.6389	-2.27	1.45	5.81	5.7725	-0.65
SAR16	2026-08-24	835	251.189	D835V2 - SN4d167	EX3DV4 - SN7785	DAE4 Sn1694	2.47	9.55	9.8332	2.97	1.64	6.25	6.5289	4.46
SAR16	2026-08-25	835	251.189	D835V2 - SN4d167	EX3DV4 - SN7785	DAE4 Sn1694	2.47	9.55	9.8332	2.97	1.64	6.25	6.5289	4.46
SAR10	2026-08-27	835	251.189	D835V2 - SN4d167	EX3DV4 - SN7700	DAE4 Sn661	2.53	9.55	10.0721	5.47	1.68	6.25	6.6882	7.01
SAR16	2026-08-29	835	251.189	D835V2 - SN4d167	EX3DV4 - SN7785	DAE4 Sn1694	2.43	9.55	9.674	1.30	1.62	6.25	6.4493	3.19
SAR16	2026-09-01	835	251.189	D835V2 - SN4d167	EX3DV4 - SN7785	DAE4 Sn1694	2.4	9.55	9.5546	0.05	1.59	6.25	6.3299	1.28
SAR16	2026-09-08	835	251.189	D835V2 - SN4d167	EX3DV4 - SN7785	DAE4 Sn1694	2.5	9.55	9.9527	4.22	1.66	6.25	6.6086	5.74
SAR16	2026-08-26	1750	251.189	D1750V2 - SN1112	EX3DV4 - SN7785	DAE4 Sn1694	8.81	36.3	35.0732	-3.38	4.75	19.3	18.9101	-2.02
SAR16	2026-08-27	1750	251.189	D1750V2 - SN1112	EX3DV4 - SN7785	DAE4 Sn1694	8.78	36.3	34.9538	-3.71	4.73	19.3	18.8304	-2.43
SAR10	2026-08-28	1750	251.189	D1750V2 - SN1112	EX3DV4 - SN7700	DAE4 Sn661	9.12	36.3	36.3073	0.02	4.83	19.3	19.2285	-0.37
SAR16	2026-08-30	1750	50.1187	D1750V2 - SN1112	EX3DV4 - SN7785	DAE4 Sn1694	1.74	36.3	34.7176	-4.36	0.932	19.3	18.5959	-3.65
SAR10	2026-09-15	1750	251.189	D1750V2 - SN1112	EX3DV4 - SN7695	DAE4 Sn1647	9.13	36.3	36.3471	0.13	4.91	19.3	19.547	1.28
SAR16	2026-09-16	1750	251.189	D1750V2 - SN1112	EX3DV4 - SN7695	DAE4 Sn1647	9.1	36.3	36.2277	-0.20	4.88	19.3	19.4276	0.66
SAR10	2026-09-17	1750	251.189	D1750V2 - SN1112	EX3DV4 - SN7695	DAE4 Sn1647	9.06	36.3	36.0685	-0.64	4.87	19.3	19.3878	0.45
SAR16	2026-08-26	1900	251.189	D1900V2 - SN5d185	EX3DV4 - SN7785	DAE4 Sn1694	10.5	39.6	41.8012	5.56	5.5	20.8	21.8959	5.27
SAR16	2026-08-27	1900	251.189	D1900V2 - SN5d185	EX3DV4 - SN7785	DAE4 Sn1694	10.4	39.6	41.4031	4.55	5.47	20.8	21.7764	4.69
SAR10	2026-08-28	1900	251.189	D1900V2 - SN5d185	EX3DV4 - SN7700	DAE4 Sn661	10.1	39.6	40.2088	1.54	5.24	20.8	20.8608	0.29
SAR16	2026-08-30	1900	50.1187	D1900V2 - SN5d185	EX3DV4 - SN7785	DAE4 Sn1694	1.97	39.6	39.3067	-0.74	1.03	20.8	20.5512	-1.20
SAR10	2026-09-16	1900	251.189	D1900V2 - SN5d185	EX3DV4 - SN7695	DAE4 Sn1647	10.3	39.6	41.005	3.55	5.36	20.8	21.3385	2.59
SAR16	2026-09-17	1900	251.189	D1900V2 - SN5d185	EX3DV4 - SN7695	DAE4 Sn1647	10.3	39.6	41.005	3.55	5.39	20.8	21.4579	3.16
SAR16	2026-08-28	2300	50.1187	D2300V2 - SN1006	EX3DV4 - SN7785	DAE4 Sn1694	2.29	48.2	45.6915	-5.20	1.1	23.2	21.9479	-5.40
SAR10	2026-08-29	2300	251.189	D2300V2 - SN1006	EX3DV4 - SN7700	DAE4 Sn661	12.8	48.2	50.9576	5.72	6.13	23.2	24.4039	5.19
SAR10	2026-09-03	2450	251.189	D2450V2 - SN929	EX3DV4 - SN7700	DAE4 Sn661	13.9	53.3	55.3368	3.82	6.48	25.2	25.7973	2.37
SAR16	2026-09-03	2450	50.1187	D2450V2 - SN929	EX3DV4 - SN7785	DAE4 Sn1694	2.52	53.3	50.2806	-5.66	1.18	25.2	23.5441	-6.57
SAR10	2026-09-04	2450	251.189	D2450V2 - SN929	EX3DV4 - SN7700	DAE4 Sn661	13.7	53.3	54.5406	2.33	6.4	25.2	25.4788	1.11
SAR16	2026-08-28	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7785	DAE4 Sn1694	13.1	55.3	52.152	-5.69	5.92	24.9	23.5679	-5.35
SAR10	2026-08-29	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7700	DAE4 Sn661	14.3	55.3	56.9292	2.95	6.35	24.9	25.2798	1.53
SAR16	2026-09-03	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7785	DAE4 Sn1694	12.9	55.3	51.3558	-7.13	5.86	24.9	23.329	-6.31



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SAR16	2026-09-04	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7785	DAE4 Sn1694	13.2	55.3	52.5501	-4.97	5.94	24.9	23.6475	-5.03
SAR16	2026-09-05	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7785	DAE4 Sn1694	13.1	55.3	52.152	-5.69	5.88	24.9	23.4087	-5.99
SAR10	2026-09-07	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7695	DAE4 Sn1647	14.1	55.3	56.133	1.51	6.32	24.9	25.1603	1.05
SAR10	2026-09-08	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7695	DAE4 Sn1647	13.4	55.3	53.3463	-3.53	5.95	24.9	23.6873	-4.87
SAR10	2026-09-09	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7695	DAE4 Sn1647	13.9	55.3	55.3368	0.07	6.21	24.9	24.7224	-0.71
SAR10	2026-09-10	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7695	DAE4 Sn1647	13.9	55.3	55.3368	0.07	6.24	24.9	24.8419	-0.23
SAR10	2026-09-11	2600	251.189	D2600V2 - SN1078	EX3DV4 - SN7695	DAE4 Sn1647	13.3	55.3	52.9482	-4.25	5.93	24.9	23.6077	-5.19
SAR10	2026-08-30	3500	100	D3500V2 - SN1014	EX3DV4 - SN7700	DAE4 Sn661	6.8	65.7	68	3.50	2.56	24.9	25.6	2.81
SAR16	2026-08-31	3500	100	D3500V2 - SN1014	EX3DV4 - SN7785	DAE4 Sn1694	6.59	65.7	65.9	0.30	2.53	24.9	25.3	1.61
SAR16	2026-09-02	3500	100	D3500V2 - SN1014	EX3DV4 - SN7785	DAE4 Sn1694	6.66	65.7	66.6	1.37	2.55	24.9	25.5	2.41
SAR10	2026-09-02	3500	100	D3500V2 - SN1014	EX3DV4 - SN7700	DAE4 Sn661	7.12	65.7	71.2	8.37	2.7	24.9	27	8.43
SAR16	2026-09-06	3500	100	D3500V2 - SN1014	EX3DV4 - SN7785	DAE4 Sn1694	6.56	65.7	65.6	-0.15	2.5	24.9	25	0.40
SAR16	2026-09-07	3500	100	D3500V2 - SN1014	EX3DV4 - SN7785	DAE4 Sn1694	6.59	65.7	65.9	0.30	2.51	24.9	25.1	0.80
SAR10	2026-08-30	3700	100	D3700V2 - SN1006	EX3DV4 - SN7700	DAE4 Sn661	6.86	69.9	68.6	-1.86	2.49	25.6	24.9	-2.73
SAR16	2026-08-31	3700	100	D3700V2 - SN1006	EX3DV4 - SN7785	DAE4 Sn1694	6.73	69.9	67.3	-3.72	2.5	25.6	25	-2.34
SAR16	2026-09-02	3700	100	D3700V2 - SN1006	EX3DV4 - SN7785	DAE4 Sn1694	6.86	69.9	68.6	-1.86	2.55	25.6	25.5	-0.39
SAR10	2026-09-02	3700	100	D3700V2 - SN1006	EX3DV4 - SN7700	DAE4 Sn661	7.25	69.9	72.5	3.72	2.66	25.6	26.6	3.91
SAR16	2026-09-06	3700	100	D3700V2 - SN1006	EX3DV4 - SN7785	DAE4 Sn1694	6.8	69.9	68	-2.72	2.52	25.6	25.2	-1.56
SAR16	2026-09-07	3700	100	D3700V2 - SN1006	EX3DV4 - SN7785	DAE4 Sn1694	6.82	69.9	68.2	-2.43	2.53	25.6	25.3	-1.17
SAR16	2026-09-12	3700	100	D3700V2 - SN1006	EX3DV4 - SN7695	DAE4 Sn1647	6.65	69.9	66.5	-4.86	2.44	25.6	24.4	-4.69
SAR16	2026-09-13	3700	100	D3700V2 - SN1006	EX3DV4 - SN7695	DAE4 Sn1647	7.21	69.9	72.1	3.15	2.65	25.6	26.5	3.52
SAR16	2026-09-14	3700	100	D3700V2 - SN1006	EX3DV4 - SN7695	DAE4 Sn1647	6.92	69.9	69.2	-1.00	2.53	25.6	25.3	-1.17
SAR10	2026-08-30	3900	100	D3900V2 - SN1092	EX3DV4 - SN7700	DAE4 Sn661	6.92	65.7	69.2	5.33	2.41	23.1	24.1	4.33
SAR16	2026-08-31	3900	100	D3900V2 - SN1092	EX3DV4 - SN7785	DAE4 Sn1694	6.6	65.7	66	0.46	2.34	23.1	23.4	1.30
SAR16	2026-09-02	3900	100	D3900V2 - SN1092	EX3DV4 - SN7785	DAE4 Sn1694	6.66	65.7	66.6	1.37	2.36	23.1	23.6	2.16
SAR10	2026-09-02	3900	100	D3900V2 - SN1092	EX3DV4 - SN7700	DAE4 Sn661	7.18	65.7	71.8	9.28	2.52	23.1	25.2	9.09
SAR16	2026-09-06	3900	100	D3900V2 - SN1092	EX3DV4 - SN7785	DAE4 Sn1694	6.53	65.7	65.3	-0.61	2.31	23.1	23.1	0.00
SAR16	2026-09-07	3900	100	D3900V2 - SN1092	EX3DV4 - SN7785	DAE4 Sn1694	6.56	65.7	65.6	-0.15	2.32	23.1	23.2	0.43
SAR16	2026-09-13	3900	100	D3900V2 - SN1092	EX3DV4 - SN7695	DAE4 Sn1647	7.09	65.7	70.9	7.91	2.5	23.1	25	8.23
SAR16	2026-09-14	3900	100	D3900V2 - SN1092	EX3DV4 - SN7695	DAE4 Sn1647	6.86	65.7	68.6	4.41	2.4	23.1	24	3.90
SAR10	2026-09-03	5250	100	D5GHzV2 - SN1006	EX3DV4 - SN7700	DAE4 Sn661	7.89	80.6	78.9	-2.11	2.26	22.8	22.6	-0.88
SAR10	2026-09-05	5250	100	D5GHzV2 - SN1006	EX3DV4 - SN7700	DAE4 Sn661	8.12	80.6	81.2	0.74	2.33	22.8	23.3	2.19
SAR10	2026-09-03	5600	100	D5GHzV2 - SN1006	EX3DV4 - SN7700	DAE4 Sn661	8.6	83.4	86	3.12	2.44	23.7	24.4	2.95
SAR10	2026-09-05	5600	100	D5GHzV2 - SN1006	EX3DV4 - SN7700	DAE4 Sn661	8.75	83.4	87.5	4.92	2.48	23.7	24.8	4.64
SAR10	2026-09-03	5800	100	D5GHzV2 - SN1006	EX3DV4 - SN7700	DAE4 Sn661	8.22	80.6	82.2	1.99	2.33	22.7	23.3	2.64
SAR10	2026-09-05	5800	100	D5GHzV2 - SN1006	EX3DV4 - SN7700	DAE4 Sn661	8.32	80.6	83.2	3.23	2.35	22.7	23.5	3.52
SAR10	2026-09-23	2450	50.1187	D2450V2 - SN929	EX3DV4 - SN7590	DAE4 Sn1805	2.55	53.3	50.879	-4.54	1.18	25.2	23.544	-6.57
SAR16	2026-10-08	3900	100	D3900V2 - SN1092	EX3DV4 - SN3976	DAE4 Sn1776	6.22	65.7	62.2	-5.33	2.25	23.1	22.5	-2.60

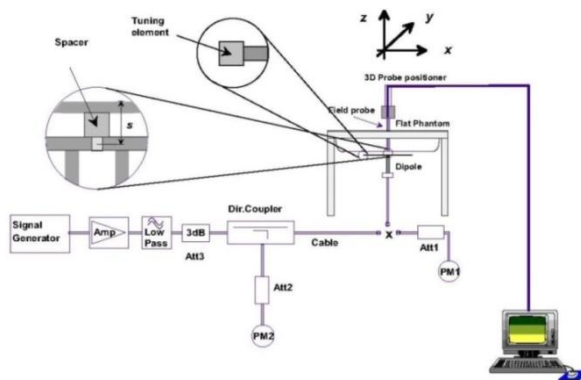


Fig 11.3.1 System Performance Check Setup



Fig 11.3.2 Setup Photo



Fig 11.3.3 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.

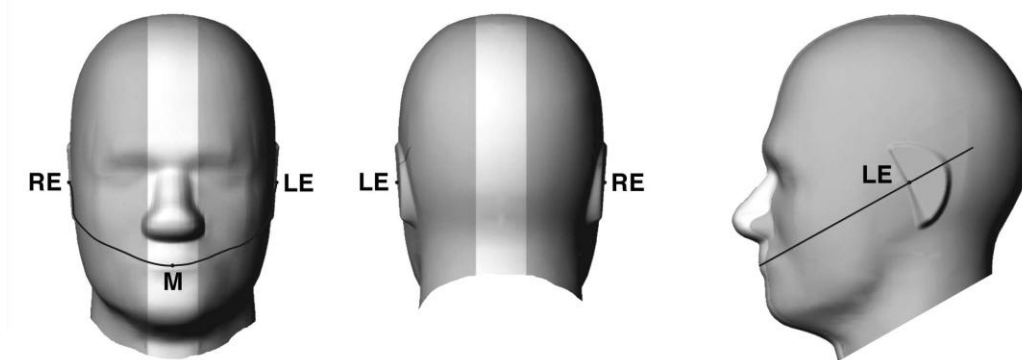


Fig 12.1.1 Front, back, and side views of SAM twin phantom

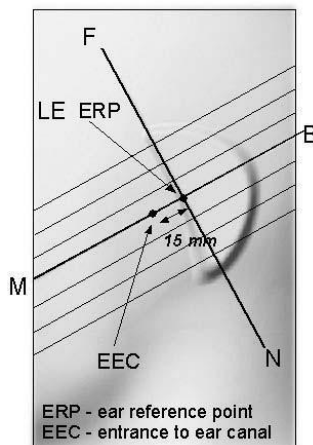


Fig 12.1.2 Close-up side view of phantom showing the ear region.

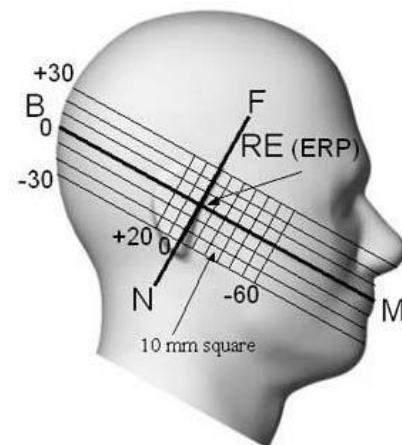


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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.

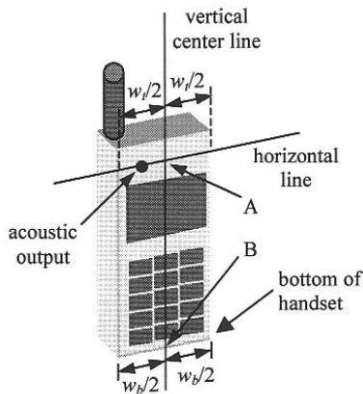


Fig 12.2.1 Handset vertical and horizontal reference lines—“fixed case”

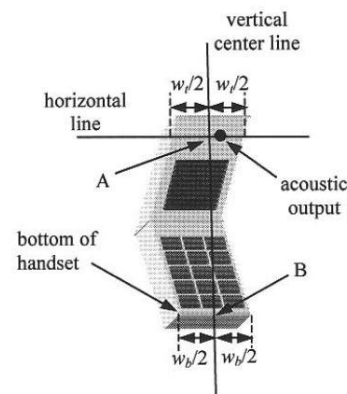


Fig 12.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

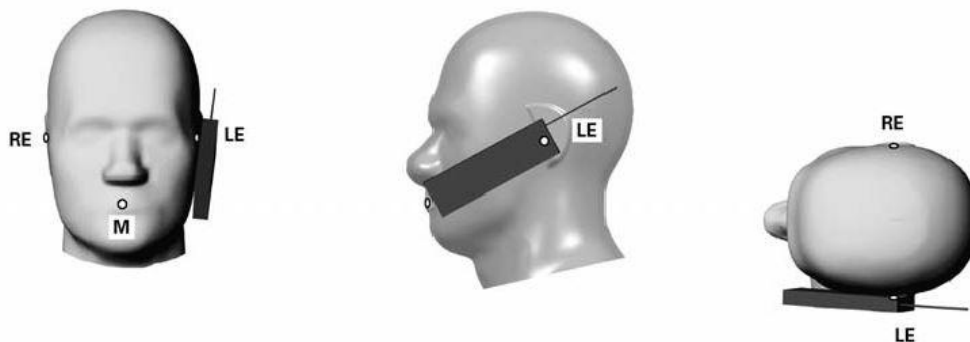


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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

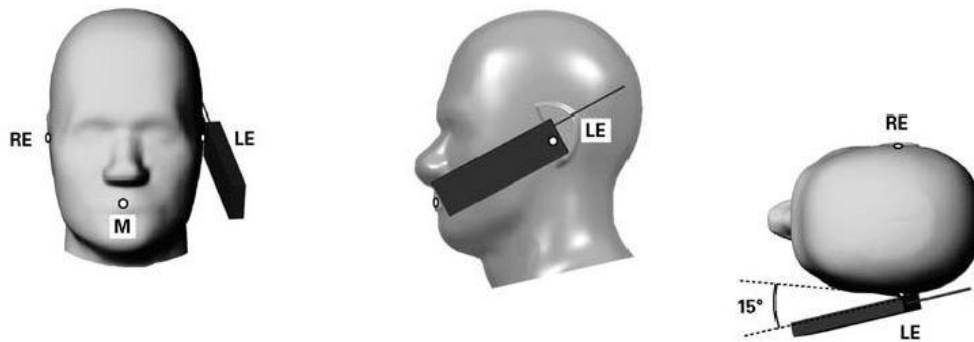


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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 $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

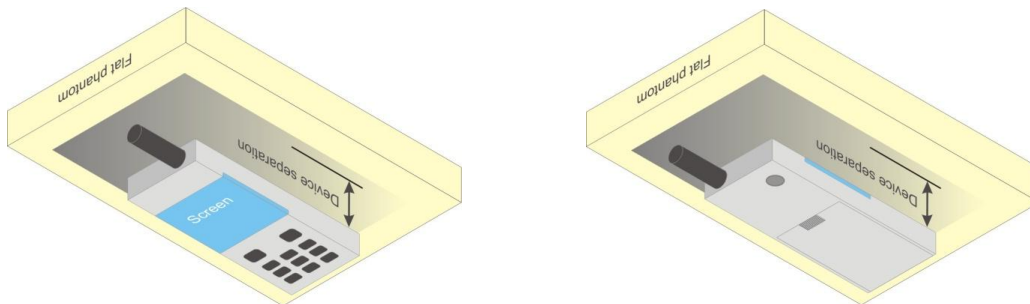


Fig 12.4 Body Worn Position

12.5 Product Specific 10g SAR Exposure

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

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

12.6 Wireless Router

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

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

13. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

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

<WCDMA Conducted Power>

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

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

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

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

Setup Configuration

HSUPA Setup Configuration:

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

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

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

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

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

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

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

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

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

Setup Configuration

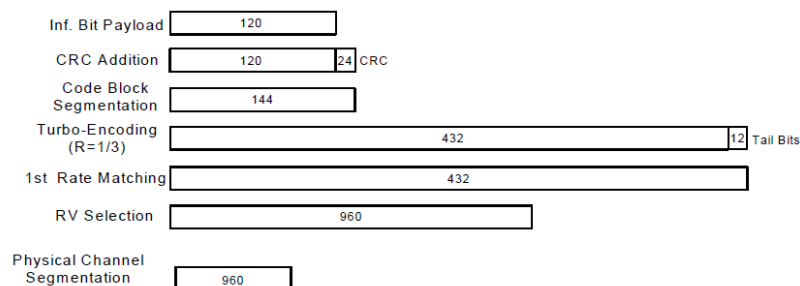
DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

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

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


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

HSPA+ 3GPP release 7 (uplink category 7) 16QAM, 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 = 5.2E:HSPA+:UL with 16QAM
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.4, quoted from the TS 34.121-1 s5.2E
 - iii. Set Channel Params
 - iv. Set Cell Power = -86 dBm
 - v. Set Channel Type = HSPA
 - vi. Set UE Target Power = 21 dBm
 - vii. Power Ctrl Mode= All Up Bits
 - viii. Set Manual Uplink DPCH Bc/Bd = Manual
 - ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
 - x. Set HSPA Conn DL Channel Levels
 - xi. Set HS-SCCH Configs
 - xii. Set RB Test Mode Setup
 - xiii. Set Common HSUPA Parameters
 - xiv. Set Serving Grant
 - xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

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

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

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

Setup Configuration

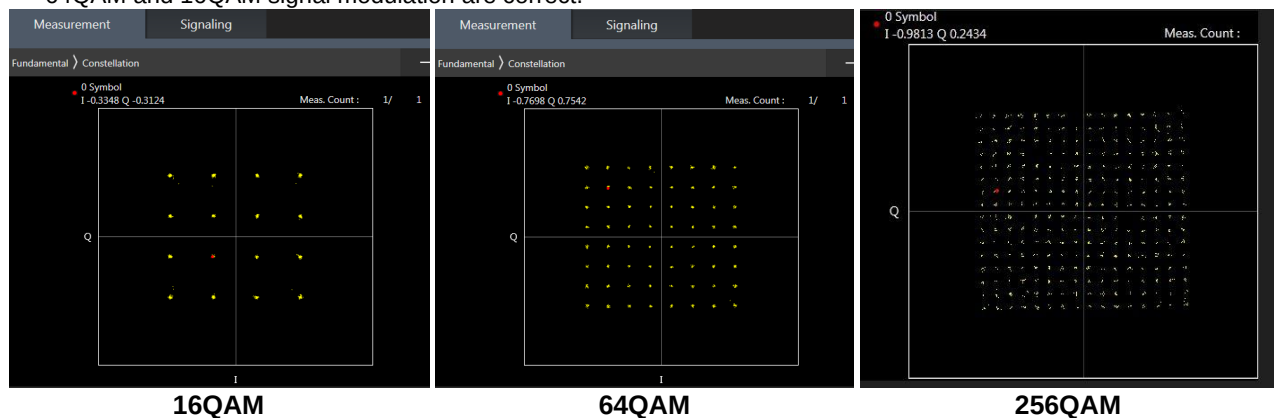
<WCDMA Conducted Power>**General Note:**

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

<LTE Conducted Power>

General Note:

1. Anritsu MT8821C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B17/5/38/4/2 SAR test was covered by B12/26/41/66/25; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.



<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

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

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

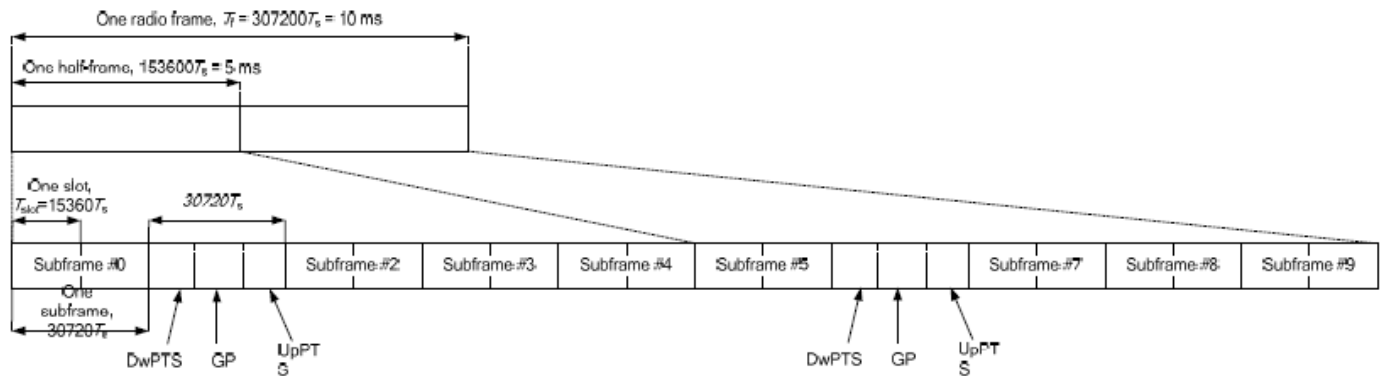


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

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

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

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

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

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

The highest duty factor is resulted from:

For LTE TDD Power class 3

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

For LTE TDD Power class 2

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

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

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

<LTE Carrier Aggregation>

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

General Note:

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

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Intra CA	Ant
CA_5B	Ant0/4
CA_41C	Ant1
CA_48C	Ant5
CA_48B	Ant5

<Intra-band>
General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B5/41/48 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iii. Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.
- iv. LTE CA_48B test was covered by LTE CA_48C; therefore, SAR was only assessed for LTE CA_48C.

<Inter-band>
General Note:

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

LTE Uplink CA	2CC Uplink Carrier Aggregation	
Inter-band	Main Antenna Tx	
CA_12A-66A	Ant4	Ant0
	Ant0	Ant4
CA_13A-66A	Ant4	Ant0
	Ant0	Ant4
CA_14A-66A	Ant4	Ant0
CA_2A-12A	Ant0	Ant4
	Ant4	Ant0
CA_2A-13A	Ant0	Ant4
	Ant4	Ant0
CA_2A-14A	Ant0	Ant4
CA_2A-48A	Ant0	Ant5
	Ant4	Ant5
CA_2A-4A	Ant0	Ant4
	Ant4	Ant0
CA_2A-5A	Ant0	Ant4
	Ant4	Ant0
CA_2A-66A	Ant0	Ant4
	Ant4	Ant0
CA_2A-71A	Ant0	Ant4
	Ant4	Ant0
CA_48A-66A	Ant5	Ant0
	Ant5	Ant4
CA_4A-12A	Ant0	Ant4
	Ant4	Ant0
CA_4A-13A	Ant0	Ant4
	Ant4	Ant0
CA_4A-5A	Ant0	Ant4
	Ant4	Ant0
CA_5A-66A	Ant4	Ant0
	Ant0	Ant4

5G NR Output Power (Unit: dBm)**General Note:**

1. 5G NR n2/n5/n7/n25/n30/n41/n48/n66/n71/n77/n78 is NSA mode.
2. 5G NR n2/n5/n7/n12/n13/n14/n25/n26/n30/n41/n48/n66/n70/n71/n77/n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. For 5G NR n41/n77/n78 HPUE, 5G NR n41/n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
5. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
6. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
7. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
8. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
9. 5G NR n2/n7/n25/n41/n66/n77 supports UL MIMO mode.

<3GPP 38.101 MPR for EN-DC>
Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

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

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

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

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

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

<EN-DC combination>

ENDC mode	LTE TX	NR TX
DC_2A-n7A	Ant4	Ant1
DC_66A_n25A	Ant0	Ant4
	Ant4	Ant0
DC_2A_n71A	Ant0	Ant4
	Ant4	Ant0
DC_2A_n41A	Ant4	Ant1
	Ant0	Ant1
	Ant4	Ant2
	Ant4	Ant7
	Ant0	Ant4
	Ant0	Ant2
DC_71A_n66A	Ant0	Ant7
	Ant4	Ant0
DC_66A_n5A	Ant4	Ant4
	Ant0	Ant0
DC_66A_n2A	Ant0	Ant4
	Ant4	Ant0
DC_2A_n77A	Ant0	Ant5
	Ant4	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant4	Ant3
	Ant4	Ant8
	Ant4	Ant1



DC_5A_n77A	Ant0	Ant5
	Ant4	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant4	Ant3
	Ant4	Ant8
DC_66A_n77A	Ant4	Ant1
	Ant0	Ant5
	Ant4	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant4	Ant3
DC_2A_n5A	Ant4	Ant8
	Ant4	Ant1
DC_13A_n2A	Ant0	Ant4
	Ant4	Ant0
DC_13A_n66A	Ant4	Ant0
	Ant0	Ant4
DC_48A_n5A	Ant5	Ant0
	Ant5	Ant4
DC_13A_n77A	Ant0	Ant5
	Ant4	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant4	Ant3
	Ant4	Ant8
DC_12A_n25A	Ant4	Ant1
	Ant4	Ant0
DC_12A_n2A	Ant0	Ant4
	Ant4	Ant0
DC_12A_n41A	Ant4	Ant1
	Ant0	Ant1
	Ant4	Ant2
	Ant4	Ant7
	Ant0	Ant4
	Ant0	Ant2
DC_12A_n66A	Ant0	Ant7
	Ant4	Ant0
DC_12A_n77A	Ant0	Ant4
	Ant4	Ant5
	Ant0	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant4	Ant3
DC_12A_n78A	Ant4	Ant8
	Ant4	Ant1
	Ant0	Ant5
DC_12A_n78A	Ant0	Ant5
	Ant0	Ant3
	Ant0	Ant8



	Ant0	Ant1
DC_13A_n78A	Ant0	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant0	Ant1
DC_14A_n2A	Ant4	Ant0
DC_14A_n66A	Ant4	Ant0
DC_14A_n77A	Ant0	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
DC_25A_n41A	Ant4	Ant1
	Ant0	Ant1
	Ant4	Ant2
	Ant4	Ant7
	Ant0	Ant4
	Ant0	Ant2
	Ant0	Ant7
DC_25A_n77A	Ant0	Ant5
	Ant4	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant4	Ant3
	Ant4	Ant8
	Ant4	Ant1
DC_25A_n78A	Ant0	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
DC_2A_n30A	Ant4	Ant1
	Ant0	Ant1
DC_2A_n48A	Ant0	Ant5
	Ant4	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant4	Ant3
	Ant4	Ant8
	Ant4	Ant1
DC_2A_n66A	Ant0	Ant4
	Ant4	Ant0
DC_2A_n78A	Ant0	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
DC_2A_n7A	Ant4	Ant1
DC_30A_n2A	Ant1	Ant4
	Ant1	Ant0
DC_30A_n5A	Ant1	Ant4
	Ant1	Ant0
DC_30A_n66A	Ant1	Ant4
	Ant1	Ant0
DC_30A_n77A	Ant1	Ant3
	Ant1	Ant5
	Ant1	Ant8



DC_38A_n78A	Ant1	Ant3
	Ant1	Ant5
	Ant1	Ant8
DC_41A_n77A	Ant1	Ant3
	Ant1	Ant5
	Ant1	Ant8
DC_48A_n2A	Ant5	Ant0
	Ant5	Ant4
DC_48A_n66A	Ant5	Ant0
	Ant5	Ant4
DC_48A_n71A	Ant5	Ant0
	Ant5	Ant4
DC_4A_n2A	Ant0	Ant4
	Ant4	Ant0
DC_4A_n41A	Ant4	Ant1
	Ant0	Ant1
	Ant4	Ant2
	Ant4	Ant7
	Ant0	Ant4
	Ant0	Ant2
DC_4A_n5A	Ant0	Ant7
	Ant4	Ant4
DC_4A_n78A	Ant0	Ant0
	Ant0	Ant5
	Ant0	Ant3
	Ant0	Ant1
DC_4A_n7A	Ant0	Ant8
	Ant4	Ant1
DC_5A_n2A	Ant4	Ant0
	Ant0	Ant4
DC_5A_n41A	Ant4	Ant4
	Ant4	Ant1
	Ant4	Ant1
	Ant4	Ant2
	Ant4	Ant7
	Ant0	Ant4
DC_5A_n48A	Ant0	Ant2
	Ant0	Ant7
	Ant0	Ant5
	Ant4	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant4	Ant3
DC_5A_n66A	Ant4	Ant8
	Ant4	Ant1
DC_5A_n78A	Ant0	Ant0
	Ant0	Ant5
	Ant0	Ant3
	Ant0	Ant8
DC_5A_n7A	Ant0	Ant1
DC_66A_n30A	Ant4	Ant1
	Ant0	Ant1
DC_66A_n41A	Ant4	Ant1
	Ant0	Ant1



	Ant4	Ant2
	Ant4	Ant7
	Ant0	Ant4
	Ant0	Ant2
	Ant0	Ant7
DC_66A_n48A	Ant0	Ant5
	Ant4	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant4	Ant3
	Ant4	Ant8
DC_66A_n71A	Ant4	Ant1
	Ant0	Ant4
DC_66A_n78A	Ant4	Ant0
	Ant0	Ant5
	Ant0	Ant3
	Ant0	Ant8
DC_66A_n7A	Ant0	Ant1
DC_71A_n2A	Ant4	Ant1
	Ant0	Ant0
DC_71A_n41A	Ant4	Ant4
	Ant4	Ant1
	Ant0	Ant1
	Ant4	Ant2
	Ant0	Ant7
	Ant0	Ant4
DC_71A_n48A	Ant0	Ant2
	Ant0	Ant7
	Ant0	Ant5
	Ant4	Ant5
	Ant0	Ant3
	Ant0	Ant8
	Ant0	Ant1
	Ant4	Ant3
DC_71A_n77A	Ant4	Ant3
	Ant4	Ant8
	Ant4	Ant1
	Ant0	Ant5
	Ant4	Ant5
	Ant0	Ant3
	Ant0	Ant8
DC_71A_n78A	Ant0	Ant1
	Ant4	Ant3
	Ant4	Ant8
	Ant4	Ant1
DC_7A_n25A	Ant0	Ant5
DC_7A_n2A	Ant0	Ant3
DC_7A_n5A	Ant0	Ant8
DC_7A_n66A	Ant0	Ant1
DC_7A_n71A	Ant1	Ant4
DC_7A_n77A	Ant1	Ant4
	Ant1	Ant3
	Ant1	Ant5

DC_7A_n78A	Ant1	Ant8
	Ant1	Ant3
	Ant1	Ant5
	Ant1	Ant8

<NRUL MIMO Bands combination>

ULMIMO mode	NR ANT	NR TX
n2	Ant0	Ant4
	Ant4	Ant0
n25	Ant0	Ant4
	Ant4	Ant0
n66	Ant0	Ant4
	Ant4	Ant0
n7	Ant1	Ant4
n41	Ant1	Ant4
	Ant7	Ant2
n77	Ant5	Ant3
	Ant8	Ant1

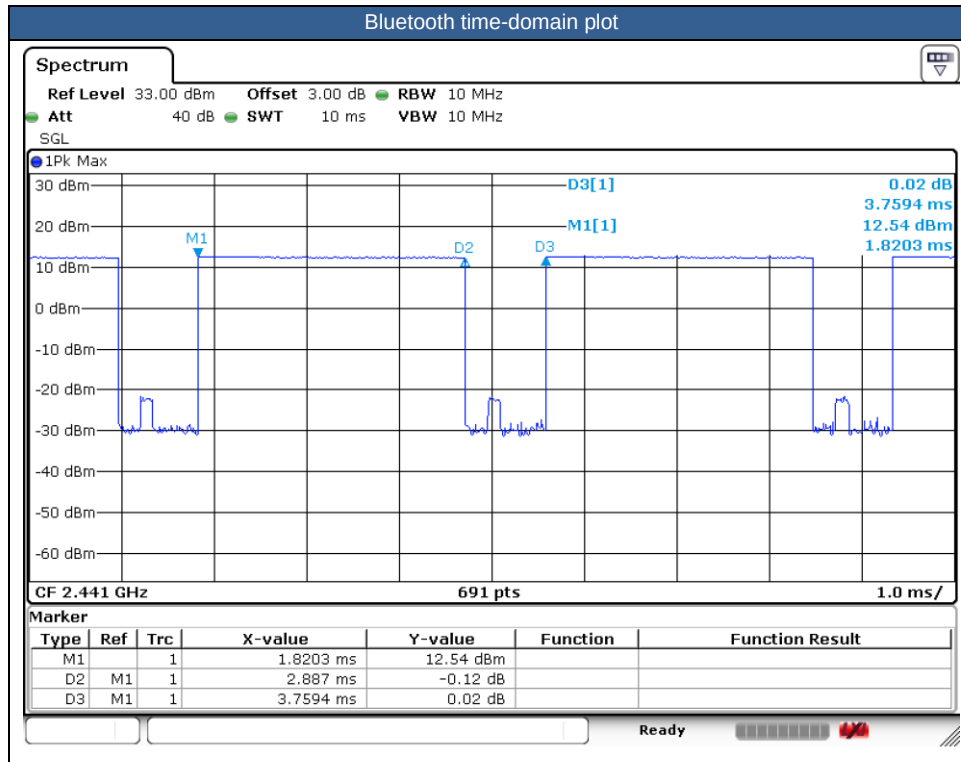
<WLAN Conducted Power>**General Note:**

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

<2.4GHz Bluetooth>

General Note:

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





14. Antenna Location

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

15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
 - g. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements the power management, Proximity sensors/receiver detect mechanism/handheld trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body, limbs) and the MediaTek TA-SAR algorithm will manage to ensure the power level not exceeding the associated power table. The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table.
5. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
6. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850/1900, WCDMA Band II/IV/V, LTE Band 2/5/4/7/13/14/25/26/30/38/41/66/48, 5GNR n2/n5/n7/n25/n26/n30/n66/n70/n41/n48/n77/n78 and WLAN 5.2/5.8GHz therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.8GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
7. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is < 1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
8. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.

9. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at $\leq 25\text{mm}$ from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.
10. LTE B2/4/66 and 5GNR n2/25/66/41at ant0/4, 5GNR n41 at ant2/4, and 5GNR n77 at ant 3/1 support different PAs for same antenna, and some LTE/NR bands support PA (Reference Designator) only under ENDC. Some LTE/NR bands support different PAs for some antennas, whether it is the maximum power of Main PA is higher than and very close to the PA (Reference Designator), for RF exposure, after verification all PAs in a same position, so the worst-case PA was chosen to perform full SAR testing to ensure the RF exposure is compliance and another PA verified the worst case.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. Both primary and secondary modes must be in the same frequency band. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

WCDMA Note:

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

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B17/5/38/4/2 SAR test was covered by B12/26/41/66/25; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion

- b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - d. $\pi/2$ BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, $\pi/2$ BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - f. For 5G FR1 n2/n5/n7/n26/n66/n38/n41/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

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

NFC Note:

1. NFC mainly operate in hand-held extremity exposure conditions, therefore Standalone 10-g extremity SAR testing for NFC will be performed with active mode, with 100% duty cycle at 0mm separation distance.
2. NFC SAR is measured for all surface edges of the device with a transmitting antenna located within 25 mm from that surface or edge.
3. NFC SAR test tissue-simulating liquid parameter: refer to IEC/IEEE 62209-1528:2020.

ECI status description:

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

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

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



15.1 Head SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
01	GSM850	-	-	-	-	GPRS 4 Tx slots	Right Cheek	0mm	Ant 0	ECI 2	189	836.4	1	28.08	29.50	1.387	-	-	0.07	0.152	0.211
	GSM850	-	-	-	-	GPRS 4 Tx slots	Right Tilted	0mm	Ant 0	ECI 2	189	836.4	1	28.08	29.50	1.387	-	-	0.03	0.094	0.130
	GSM850	-	-	-	-	GPRS 4 Tx slots	Left Cheek	0mm	Ant 0	ECI 2	189	836.4	1	28.08	29.50	1.387	-	-	-0.12	0.132	0.183
	GSM850	-	-	-	-	GPRS 4 Tx slots	Left Tilted	0mm	Ant 0	ECI 2	189	836.4	1	28.08	29.50	1.387	-	-	0.15	0.120	0.166
02	GSM1900	-	-	-	-	GPRS 2 Tx slots	Right Cheek	0mm	Ant 0	ECI 2	661	1880	1	28.52	29.50	1.253	-	-	-0.05	0.042	0.053
	GSM1900	-	-	-	-	GPRS 2 Tx slots	Right Tilted	0mm	Ant 0	ECI 2	661	1880	1	28.52	29.50	1.253	-	-	0.14	0.026	0.033
	GSM1900	-	-	-	-	GPRS 2 Tx slots	Left Cheek	0mm	Ant 0	ECI 2	661	1880	1	28.52	29.50	1.253	-	-	-0.19	0.039	0.049
	GSM1900	-	-	-	-	GPRS 2 Tx slots	Left Tilted	0mm	Ant 0	ECI 2	661	1880	1	28.52	29.50	1.253	-	-	0.04	0.022	0.028
03	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	ECI 2	9400	1880	1	23.36	24.00	1.159	-	-	0.01	0.116	0.134
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	ECI 2	9400	1880	1	23.36	24.00	1.159	-	-	-0.13	0.079	0.092
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	ECI 2	9400	1880	1	23.36	24.00	1.159	-	-	-0.13	0.099	0.115
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	ECI 2	9400	1880	1	23.36	24.00	1.159	-	-	-0.09	0.085	0.099
04	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	ECI 2	1413	1732.6	1	23.15	24.00	1.216	-	-	-0.03	0.166	0.202
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	ECI 2	1413	1732.6	1	23.15	24.00	1.216	-	-	-0.05	0.113	0.137
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	ECI 2	1413	1732.6	1	23.15	24.00	1.216	-	-	-0.03	0.110	0.134
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	ECI 2	1413	1732.6	1	23.15	24.00	1.216	-	-	-0.10	0.099	0.120
05	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	ECI 2	4182	836.4	1	23.34	24.00	1.164	-	-	0.13	0.160	0.186
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	ECI 2	4182	836.4	1	23.34	24.00	1.164	-	-	0.15	0.090	0.105
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	ECI 2	4182	836.4	1	23.34	24.00	1.164	-	-	-0.06	0.147	0.171
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	ECI 2	4182	836.4	1	23.34	24.00	1.164	-	-	-0.07	0.080	0.093

Plot No	Band	BW	Modulation	RB Size	RB Offset	PA	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	21100	2535	1	22.68	24.00	1.355	-	-	0.18	0.328	0.444
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 2	21100	2535	1	21.66	23.00	1.361	-	-	0.01	0.249	0.339
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 2	21100	2535	1	22.68	24.00	1.355	-	-	-0.18	0.226	0.306
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 2	21100	2535	1	21.66	23.00	1.361	-	-	-0.04	0.168	0.229
06	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 2	21100	2535	1	22.68	24.00	1.355	-	-	0.04	0.463	0.627
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 2	21100	2535	1	21.66	23.00	1.361	-	-	-0.03	0.370	0.504
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 2	21100	2535	1	22.68	24.00	1.355	-	-	-0.16	0.142	0.192
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 2	21100	2535	1	21.66	23.00	1.361	-	-	-0.04	0.108	0.147
07	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	23095	707.5	1	22.59	24.00	1.384	-	-	0.00	0.530	0.734
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 4	ECI 2	23095	707.5	1	21.50	23.00	1.413	-	-	-0.15	0.391	0.552
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	23095	707.5	1	22.59	24.00	1.384	-	-	0.13	0.470	0.650
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 4	ECI 2	23095	707.5	1	21.50	23.00	1.413	-	-	-0.05	0.350	0.495
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 2	23095	707.5	1	22.59	24.00	1.384	-	-	0.05	0.401	0.555
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 4	ECI 2	23095	707.5	1	21.50	23.00	1.413	-	-	-0.11	0.296	0.418
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 2	23095	707.5	1	22.59	24.00	1.384	-	-	-0.10	0.385	0.533
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 4	ECI 2	23095	707.5	1	21.50	23.00	1.413	-	-	-0.06	0.284	0.401
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 2	23095	707.5	1	22.99	24.00	1.262	-	-	0.18	0.196	0.247
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI 2	23095	707.5	1	21.89	23.00	1.291	-	-	0.13	0.154	0.199
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 2	23095	707.5	1	22.99	24.00	1.262	-	-	0.01	0.102	0.129
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI 2	23095	707.5	1	21.89	23.00	1.291	-	-	0.00	0.077	0.099
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 2	23095	707.5	1	22.99	24.00	1.262	-	-	0.01	0.190	0.240
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI 2	23095	707.5	1	21.89	23.00	1.291	-	-	-0.02	0.150	0.194
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 2	23095	707.5	1	22.99	24.00	1.262	-	-	0.00	0.073	0.092
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI 2	23095	707.5	1	21.89	23.00	1.291	-	-	-0.10	0.055	0.071
08	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	23230	782	1	22.51	24.00	1.409	-	-	-0.01	0.518	0.730
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 4	ECI 2	23230	782	1	21.46	23.00	1.426	-	-	0.14	0.396	0.565
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	23230	782	1	22.51	24.00	1.409	-	-	-0.17	0.423	0.596



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	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 4	ECI 2	23230	782	1	21.46	23.00	1.426	-	-	0.00	0.325	0.463
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 2	23230	782	1	22.51	24.00	1.409	-	-	0.09	0.392	0.552
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 4	ECI 2	23230	782	1	21.46	23.00	1.426	-	-	-0.14	0.301	0.429
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 2	23230	782	1	22.51	24.00	1.409	-	-	-0.06	0.365	0.514
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 4	ECI 2	23230	782	1	21.46	23.00	1.426	-	-	-0.16	0.280	0.399
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 2	23230	782	1	22.95	24.00	1.274	-	-	0.11	0.199	0.254
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI 2	23230	782	1	21.90	23.00	1.288	-	-	-0.04	0.155	0.200
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 2	23230	782	1	22.95	24.00	1.274	-	-	0.06	0.108	0.138
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI 2	23230	782	1	21.90	23.00	1.288	-	-	0.11	0.081	0.104
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 2	23230	782	1	22.95	24.00	1.274	-	-	0.11	0.159	0.203
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI 2	23230	782	1	21.90	23.00	1.288	-	-	0.00	0.124	0.160
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 2	23230	782	1	22.95	24.00	1.274	-	-	-0.13	0.083	0.106
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI 2	23230	782	1	21.90	23.00	1.288	-	-	0.18	0.063	0.081
09	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	23330	793	1	23.01	24.00	1.256	-	-	-0.01	0.605	0.760
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 4	ECI 2	23330	793	1	21.91	23.00	1.285	-	-	0.01	0.486	0.625
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	23330	793	1	23.01	24.00	1.256	-	-	0.00	0.479	0.602
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 4	ECI 2	23330	793	1	21.91	23.00	1.285	-	-	-0.07	0.379	0.487
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 2	23330	793	1	23.01	24.00	1.256	-	-	0.10	0.454	0.570
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 4	ECI 2	23330	793	1	21.91	23.00	1.285	-	-	-0.19	0.383	0.492
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 2	23330	793	1	23.01	24.00	1.256	-	-	-0.11	0.414	0.520
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 4	ECI 2	23330	793	1	21.91	23.00	1.285	-	-	0.06	0.351	0.451
	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 2	23330	793	1	23.01	24.00	1.256	-	-	0.09	0.277	0.348
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	ECI 2	23330	793	1	21.93	23.00	1.279	-	-	0.08	0.219	0.280
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 2	23330	793	1	23.01	24.00	1.256	-	-	0.16	0.128	0.161
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	ECI 2	23330	793	1	21.93	23.00	1.279	-	-	0.11	0.143	0.183
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 2	23330	793	1	23.01	24.00	1.256	-	-	-0.09	0.212	0.266
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	ECI 2	23330	793	1	21.93	23.00	1.279	-	-	-0.03	0.166	0.212
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 2	23330	793	1	23.01	24.00	1.256	-	-	-0.17	0.207	0.260
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	ECI 2	23330	793	1	21.93	23.00	1.279	-	-	-0.06	0.171	0.219
	LTE Band 25	20M	QPSK	1	0	Main PA	Right Cheek	0mm	Ant 4	ECI 2	26340	1880	1	18.52	19.40	1.225	-	-	0.05	0.663	0.812
	LTE Band 25	20M	QPSK	1	0	Main PA	Right Cheek	0mm	Ant 4	ECI 2	26140	1860	1	18.47	19.40	1.239	-	-	0.11	0.654	0.810
	LTE Band 25	20M	QPSK	1	0	Main PA	Right Cheek	0mm	Ant 4	ECI 2	26590	1905	1	18.36	19.40	1.271	-	-	-0.06	0.637	0.810
	LTE Band 25	20M	QPSK	50	0	Main PA	Right Cheek	0mm	Ant 4	ECI 2	26340	1880	1	18.46	19.40	1.242	-	-	0.18	0.523	0.650
	LTE Band 25	20M	QPSK	100	0	Main PA	Right Cheek	0mm	Ant 4	ECI 2	26340	1880	1	18.51	19.40	1.227	-	-	0.05	0.538	0.660
10	LTE Band 25	20M	QPSK	1	0	Main PA	Right Tilted	0mm	Ant 4	ECI 2	26340	1880	1	18.52	19.40	1.225	-	-	0.01	0.724	0.887
	LTE Band 25	20M	QPSK	1	0	Main PA	Right Tilted	0mm	Ant 4	ECI 2	26140	1860	1	18.47	19.40	1.239	-	-	0.17	0.715	0.886
	LTE Band 25	20M	QPSK	1	0	Main PA	Right Tilted	0mm	Ant 4	ECI 2	26590	1905	1	18.36	19.40	1.271	-	-	-0.09	0.688	0.874
	LTE Band 25	20M	QPSK	50	0	Main PA	Right Tilted	0mm	Ant 4	ECI 2	26340	1880	1	18.46	19.40	1.242	-	-	0.09	0.569	0.707
	LTE Band 25	20M	QPSK	100	0	Main PA	Right Tilted	0mm	Ant 4	ECI 2	26340	1880	1	18.51	19.40	1.227	-	-	0.12	0.569	0.698
	LTE Band 25	20M	QPSK	1	0	Main PA	Left Cheek	0mm	Ant 4	ECI 2	26340	1880	1	18.52	19.40	1.225	-	-	0.05	0.490	0.600
	LTE Band 25	20M	QPSK	50	0	Main PA	Left Cheek	0mm	Ant 4	ECI 2	26340	1880	1	18.46	19.40	1.242	-	-	-0.15	0.389	0.483
	LTE Band 25	20M	QPSK	1	0	Main PA	Left Tilted	0mm	Ant 4	ECI 2	26340	1880	1	18.52	19.40	1.225	-	-	-0.08	0.566	0.693
	LTE Band 25	20M	QPSK	50	0	Main PA	Left Tilted	0mm	Ant 4	ECI 2	26340	1880	1	18.46	19.40	1.242	-	-	0.04	0.447	0.555
	LTE Band 2	20M	QPSK	1	0	PA (Reference Designator)	Right Tilted	0mm	Ant 4	ECI 2	18900	1880	1	19.15	19.40	1.059	-	-	0.01	0.831	0.880
	LTE Band 25	20M	QPSK	1	0	Main PA	Right Cheek	0mm	Ant 0	ECI 2	26340	1880	1	22.95	24.00	1.274	-	-	-0.01	0.153	0.195
	LTE Band 25	20M	QPSK	50	0	Main PA	Right Cheek	0mm	Ant 0	ECI 2	26340	1880	1	21.98	23.00	1.265	-	-	0.07	0.122	0.154
	LTE Band 25	20M	QPSK	1	0	Main PA	Right Tilted	0mm	Ant 0	ECI 2	26340	1880	1	22.95	24.00	1.274	-	-	-0.04	0.104	0.132
	LTE Band 25	20M	QPSK	50	0	Main PA	Right Tilted	0mm	Ant 0	ECI 2	26340	1880	1	21.98	23.00	1.265	-	-	-0.14	0.083	0.105
	LTE Band 25	20M	QPSK	1	0	Main PA	Left Cheek	0mm	Ant 0	ECI 2	26340	1880	1	22.95	24.00	1.274	-	-	0.01	0.142	0.181
	LTE Band 25	20M	QPSK	50	0	Main PA	Left Cheek	0mm	Ant 0	ECI 2	26340	1880	1	21.98	23.00	1.265	-	-	-0.10	0.115	0.145
	LTE Band 25	20M	QPSK	1	0	Main PA	Left Tilted	0mm	Ant 0	ECI 2	26340	1880	1	22.95	24.00	1.274	-	-	-0.16	0.129	0.164
	LTE Band 25	20M	QPSK	50	0	Main PA	Left Tilted	0mm	Ant 0	ECI 2	26340	1880	1	21.98	23.00	1.265	-	-	0.01	0.102	0.129
	LTE Band 2	20M	QPSK	1	0	PA (Reference Designator)	Right Cheek	0mm	Ant 0	ECI 2	18900	1880	1	22.98	24.00	1.265	-	-	0.06	0.149	0.188
11	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	26865	831.5	1	22.65	23.10	1.109	-	-	-0.01	0.792	0.878
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 4	ECI 2	26865	831.5	1	21.50	22.10	1.148	-	-	-0.09	0.625	0.718



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	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 4	ECI 2	26865	831.5	1	21.52	22.10	1.143	-	-	0.09	0.607	0.694
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	26865	831.5	1	22.65	23.10	1.109	-	-	-0.14	0.631	0.700
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 4	ECI 2	26865	831.5	1	21.50	22.10	1.148	-	-	-0.04	0.493	0.566
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 2	26865	831.5	1	22.65	23.10	1.109	-	-	0.18	0.625	0.693
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 4	ECI 2	26865	831.5	1	21.50	22.10	1.148	-	-	-0.03	0.486	0.558
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 2	26865	831.5	1	22.65	23.10	1.109	-	-	-0.05	0.569	0.631
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 4	ECI 2	26865	831.5	1	21.50	22.10	1.148	-	-	0.04	0.445	0.511
	LTE Band 5B	10M+10M	QPSK	1	49	-	Right Cheek	0mm	Ant 4	ECI 2	20476+20575	831.6+841.5	1	22.50	23.10	1.148	-	-	0.05	0.725	0.832
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 2	26865	831.5	1	22.96	24.00	1.271	-	-	-0.01	0.200	0.254
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	ECI 2	26865	831.5	1	21.88	23.00	1.294	-	-	-0.07	0.157	0.203
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 2	26865	831.5	1	22.96	24.00	1.271	-	-	0.12	0.112	0.142
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	ECI 2	26865	831.5	1	21.88	23.00	1.294	-	-	0.15	0.087	0.113
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 2	26865	831.5	1	22.96	24.00	1.271	-	-	-0.03	0.177	0.225
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	ECI 2	26865	831.5	1	21.88	23.00	1.294	-	-	0.18	0.141	0.182
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 2	26865	831.5	1	22.96	24.00	1.271	-	-	0.14	0.099	0.126
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	ECI 2	26865	831.5	1	21.88	23.00	1.294	-	-	-0.17	0.078	0.101
	LTE Band 5B	10M+10M	QPSK	1	49	-	Right Cheek	0mm	Ant 0	ECI 2	20476+20575	831.6+841.5	1	22.60	24.00	1.380	-	-	0.05	0.175	0.242
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	27710	2310	1	22.68	24.00	1.355	-	-	0.03	0.135	0.183
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	ECI 2	27710	2310	1	21.64	23.00	1.368	-	-	0.09	0.106	0.145
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 2	27710	2310	1	22.68	24.00	1.355	-	-	0.12	0.087	0.118
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	ECI 2	27710	2310	1	21.64	23.00	1.368	-	-	0.08	0.065	0.089
12	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 2	27710	2310	1	22.68	24.00	1.355	-	-	0.10	0.222	0.301
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	ECI 2	27710	2310	1	21.64	23.00	1.368	-	-	-0.10	0.170	0.233
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 2	27710	2310	1	22.68	24.00	1.355	-	-	-0.16	0.068	0.092
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	ECI 2	27710	2310	1	21.64	23.00	1.368	-	-	-0.05	0.052	0.071
	LTE Band 66	20M	QPSK	1	0	Main PA	Right Cheek	0mm	Ant 4	ECI 2	132322	1745	1	18.68	20.50	1.521	-	-	-0.09	0.464	0.706
	LTE Band 66	20M	QPSK	50	0	Main PA	Right Cheek	0mm	Ant 4	ECI 2	132322	1745	1	18.65	20.50	1.531	-	-	-0.12	0.374	0.573
	LTE Band 66	20M	QPSK	1	0	Main PA	Right Tilted	0mm	Ant 4	ECI 2	132322	1745	1	18.68	20.50	1.521	-	-	0.01	0.533	0.811
	LTE Band 66	20M	QPSK	1	0	Main PA	Right Tilted	0mm	Ant 4	ECI 2	132072	1720	1	18.53	20.50	1.574	-	-	-0.04	0.428	0.674
13	LTE Band 66	20M	QPSK	1	0	Main PA	Right Tilted	0mm	Ant 4	ECI 2	132572	1770	1	18.59	20.50	1.552	-	-	0.01	0.572	0.888
	LTE Band 66	20M	QPSK	50	0	Main PA	Right Tilted	0mm	Ant 4	ECI 2	132322	1745	1	18.65	20.50	1.531	-	-	0.09	0.399	0.611
	LTE Band 66	20M	QPSK	100	0	Main PA	Right Tilted	0mm	Ant 4	ECI 2	132072	1720	1	18.64	20.50	1.535	-	-	0.11	0.423	0.649
	LTE Band 66	20M	QPSK	1	0	Main PA	Left Cheek	0mm	Ant 4	ECI 2	132322	1745	1	18.68	20.50	1.521	-	-	-0.04	0.337	0.513
	LTE Band 66	20M	QPSK	50	0	Main PA	Left Cheek	0mm	Ant 4	ECI 2	132322	1745	1	18.65	20.50	1.531	-	-	-0.17	0.272	0.416
	LTE Band 66	20M	QPSK	1	0	Main PA	Left Tilted	0mm	Ant 4	ECI 2	132322	1745	1	18.68	20.50	1.521	-	-	0.18	0.411	0.625
	LTE Band 66	20M	QPSK	50	0	Main PA	Left Tilted	0mm	Ant 4	ECI 2	132322	1745	1	18.65	20.50	1.531	-	-	-0.09	0.334	0.511
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Right Tilted	0mm	Ant 4	ECI 2	132572	1770	1	19.67	20.50	1.211	-	-	0.13	0.723	0.876
	LTE Band 66	20M	QPSK	1	0	Main PA	Right Cheek	0mm	Ant 0	ECI 2	132322	1745	1	22.98	24.00	1.265	-	-	-0.05	0.216	0.273
	LTE Band 66	20M	QPSK	50	0	Main PA	Right Cheek	0mm	Ant 0	ECI 2	132322	1745	1	21.98	23.00	1.265	-	-	0.06	0.171	0.216
	LTE Band 66	20M	QPSK	1	0	Main PA	Right Tilted	0mm	Ant 0	ECI 2	132322	1745	1	22.98	24.00	1.265	-	-	0.01	0.136	0.172
	LTE Band 66	20M	QPSK	50	0	Main PA	Right Tilted	0mm	Ant 0	ECI 2	132322	1745	1	21.98	23.00	1.265	-	-	-0.12	0.111	0.140
	LTE Band 66	20M	QPSK	1	0	Main PA	Left Cheek	0mm	Ant 0	ECI 2	132322	1745	1	22.98	24.00	1.265	-	-	0.15	0.140	0.177
	LTE Band 66	20M	QPSK	50	0	Main PA	Left Cheek	0mm	Ant 0	ECI 2	132322	1745	1	21.98	23.00	1.265	-	-	-0.11	0.112	0.142
	LTE Band 66	20M	QPSK	1	0	Main PA	Left Tilted	0mm	Ant 0	ECI 2	132322	1745	1	22.98	24.00	1.265	-	-	0.10	0.143	0.181
	LTE Band 66	20M	QPSK	50	0	Main PA	Left Tilted	0mm	Ant 0	ECI 2	132322	1745	1	21.98	23.00	1.265	-	-	-0.17	0.113	0.143
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Right Cheek	0mm	Ant 0	ECI 2	132322	1745	1	22.96	24.00	1.271	-	-	-0.12	0.122	0.155
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Right Cheek	0mm	Ant 0	ECI 2	132322	1745	1	23.88	25.00	1.294	-	-	0.05	0.183	0.237
14	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	ECI 2	133297	680.5	1	22.66	24.00	1.361	-	-	0.00	0.521	0.709
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	ECI 2	133297	680.5	1	21.62	23.00	1.374	-	-	-0.07	0.366	0.503
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	ECI 2	133297	680.5	1	22.66	24.00	1.361	-	-	-0.11	0.431	0.587
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	ECI 2	133297	680.5	1	21.62	23.00	1.374	-	-	-0.13	0.309	0.425
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	ECI 2	133297	680.5	1	22.66	24.00	1.361	-	-	0.12	0.402	0.547
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	ECI 2	133297	680.5	1	21.62	23.00	1.374	-	-	-0.16	0.283	0.389
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	ECI 2	133297	680.5	1	22.66	24.00	1.361	-	-	0.18	0.380	0.517
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	ECI 2	133297	680.5	1	21.62	23.00	1.374	-	-	0.00	0.268	0.368



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	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	ECI 2	133297	680.5	1	22.95	24.00	1.274	-	-	0.11	0.149	0.190
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	ECI 2	133297	680.5	1	21.92	23.00	1.282	-	-	0.07	0.115	0.147
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	ECI 2	133297	680.5	1	22.95	24.00	1.274	-	-	0.06	0.072	0.092
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	ECI 2	133297	680.5	1	21.92	23.00	1.282	-	-	-0.03	0.057	0.073
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	ECI 2	133297	680.5	1	22.95	24.00	1.274	-	-	0.14	0.140	0.178
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	ECI 2	133297	680.5	1	21.92	23.00	1.282	-	-	-0.05	0.107	0.137
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	ECI 2	133297	680.5	1	22.95	24.00	1.274	-	-	0.07	0.075	0.096
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	ECI 2	133297	680.5	1	21.92	23.00	1.282	-	-	-0.16	0.062	0.079
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	ECI 2	40620	2593	1	22.65	24.00	1.365	62.9	1.006	-0.08	0.130	0.179
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	ECI 2	40620	2593	1	21.51	23.00	1.409	62.9	1.006	-0.13	0.104	0.147
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	ECI 2	40620	2593	1	22.65	24.00	1.365	62.9	1.006	-0.07	0.081	0.111
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	ECI 2	40620	2593	1	21.51	23.00	1.409	62.9	1.006	0.17	0.065	0.092
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 2	40620	2593	1	22.65	24.00	1.365	62.9	1.006	-0.04	0.203	0.279
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	ECI 2	40620	2593	1	21.51	23.00	1.409	62.9	1.006	-0.06	0.156	0.221
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	ECI 2	40620	2593	1	22.65	24.00	1.365	62.9	1.006	-0.04	0.053	0.073
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	ECI 2	40620	2593	1	21.51	23.00	1.409	62.9	1.006	0.01	0.042	0.060
	LTE Band 41C	20M+20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 2	41490+41292	2680+2660.2	1	22.60	24.00	1.380	62.9	1.006	0.05	0.188	0.261
15	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 2	40620	2593	1	25.50	27.00	1.413	42.9	1.009	-0.19	0.284	0.405
	LTE Band 41C HPUE	20M+20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	ECI 2	41490+41292	2680+2660.2	1	25.53	27.00	1.403	42.9	1.009	0.05	0.266	0.377
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	ECI 2	55830	3609	1	19.19	20.80	1.449	62.9	1.006	0.11	0.351	0.512
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	ECI 2	55830	3609	1	19.12	20.80	1.472	62.9	1.006	0.13	0.278	0.412
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	ECI 2	55830	3609	1	19.19	20.80	1.449	62.9	1.006	0.06	0.360	0.525
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	ECI 2	55830	3609	1	19.12	20.80	1.472	62.9	1.006	-0.08	0.285	0.422
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 2	55830	3609	1	19.19	20.80	1.449	62.9	1.006	0.02	0.547	0.797
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 2	56150	3641	1	19.06	20.80	1.493	62.9	1.006	-0.03	0.550	0.826
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 2	56640	3690	1	18.99	20.80	1.517	62.9	1.006	0.15	0.541	0.826
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 5	ECI 2	55830	3609	1	19.00	20.80	1.514	62.9	1.006	-0.03	0.434	0.661
16	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 2	55340	3560	1	19.03	20.80	1.503	62.9	1.006	0.00	0.554	0.838
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 2	55830	3609	1	19.12	20.80	1.472	62.9	1.006	-0.05	0.430	0.637
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 2	55340	3560	1	18.89	20.80	1.552	62.9	1.006	-0.13	0.442	0.690
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 2	56150	3641	1	18.96	20.80	1.528	62.9	1.006	-0.19	0.434	0.667
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	ECI 2	56640	3690	1	19.01	20.80	1.510	62.9	1.006	0.04	0.442	0.671
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 2	55830	3609	1	19.19	20.80	1.449	62.9	1.006	-0.05	0.498	0.726
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 2	55340	3560	1	19.03	20.80	1.503	62.9	1.006	-0.13	0.502	0.759
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 2	56150	3641	1	19.06	20.80	1.493	62.9	1.006	-0.14	0.513	0.771
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	ECI 2	56640	3690	1	18.99	20.80	1.517	62.9	1.006	0.07	0.520	0.794
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	ECI 2	55830	3609	1	19.12	20.80	1.472	62.9	1.006	0.18	0.397	0.588
	LTE Band 48C	20M+20M	QPSK	1	99	-	Left Cheek	0mm	Ant 5	ECI 2	55830+56028	3609+3628.8	1	16.89	18.00	1.291	62.9	1.006	0.02	0.343	0.445
	LTE Band 48C	20M+20M	QPSK	1	99	-	Left Cheek	0mm	Ant 5	ECI 2	55340+55538	3560+3579.8	1	16.81	18.00	1.315	62.9	1.006	0.01	0.286	0.378
	LTE Band 48C	20M+20M	QPSK	1	99	-	Left Cheek	0mm	Ant 5	ECI 2	56150+56348	3641+3660.8	1	16.64	18.00	1.368	62.9	1.006	0.05	0.291	0.400
	LTE Band 48C	20M+20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	ECI 2	56640+56442	3690+3670.2	1	16.50	18.00	1.413	62.9	1.006	0.04	0.305	0.434
	FR1 n7	50M	BPSK	1	1	-	Right Cheek	0mm	Ant 1	ECI 2	507000	2535	1	23.10	24.00	1.230	-	-	0.01	0.215	0.264
	FR1 n7	50M	BPSK	135	68	-	Right Cheek	0mm	Ant 1	ECI 2	507000	2535	1	22.98	24.00	1.265	-	-	0.03	0.224	0.283
	FR1 n7	50M	BPSK	1	1	-	Right Tilted	0mm	Ant 1	ECI 2	507000	2535	1	23.10	24.00	1.230	-	-	0.07	0.161	0.198
	FR1 n7	50M	BPSK	135	68	-	Right Tilted	0mm	Ant 1	ECI 2	507000	2535	1	22.98	24.00	1.265	-	-	0.02	0.162	0.205
	FR1 n7	50M	BPSK	1	1	-	Left Cheek	0mm	Ant 1	ECI 2	507000	2535	1	23.10	24.00	1.230	-	-	0.03	0.348	0.428
	FR1 n7	50M	BPSK	135	68	-	Left Cheek	0mm	Ant 1	ECI 2	507000	2535	1	22.98	24.00	1.265	-	-	-0.02	0.336	0.425
	FR1 n7	50M	BPSK	1	1	-	Left Tilted	0mm	Ant 1	ECI 2	507000	2535	1	23.10	24.00	1.230	-	-	-0.07	0.100	0.123
	FR1 n7	50M	BPSK	135	68	-	Left Tilted	0mm	Ant 1	ECI 2	507000	2535	1	22.98	24.00	1.265	-	-	0.19	0.102	0.129
	FR1 n7	50M	BPSK	1	1	-	Right Cheek	0mm	Ant 4	ECI 2	507000	2535	1	16.23	17.30	1.279	-	-	0.06	0.516	0.660
	FR1 n7	50M	BPSK	135	68	-	Right Cheek	0mm	Ant 4	ECI 2	507000	2535	1	16.15	17.30	1.303	-	-	0.08	0.520	0.678
17	FR1 n7	50M	BPSK	1	1	-	Right Tilted	0mm	Ant 4	ECI 2	507000	2535	1	16.23	17.30	1.279	-	-	-0.05	0.694	0.888
	FR1 n7	50M	BPSK	135	68	-	Right Tilted	0mm	Ant 4	ECI 2	507000	2535	1	16.15	17.30	1.303	-	-	0.11	0.668	0.870
	FR1 n7	50M	BPSK	270	0	-	Right Tilted	0mm	Ant 4	ECI 2	507000	2535	1	16.08	17.30	1.324	-	-	0.18	0.587	0.777



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	FR1 n7	50M	BPSK	1	1	-	Left Cheek	0mm	Ant 4	ECI 2	507000	2535	1	16.23	17.30	1.279	-	-	0.18	0.376	0.481
	FR1 n7	50M	BPSK	135	68	-	Left Cheek	0mm	Ant 4	ECI 2	507000	2535	1	16.15	17.30	1.303	-	-	-0.08	0.357	0.465
	FR1 n7	50M	BPSK	1	1	-	Left Tilted	0mm	Ant 4	ECI 2	507000	2535	1	16.23	17.30	1.279	-	-	0.09	0.505	0.646
	FR1 n7	50M	BPSK	135	68	-	Left Tilted	0mm	Ant 4	ECI 2	507000	2535	1	16.15	17.30	1.303	-	-	-0.08	0.468	0.610
	FR1 n7	50M	BPSK	1	1	-	Right Tilted	0mm	Ant 4	ECI 2	507000	2535	2	16.23	17.30	1.279	-	-	0.03	0.693	0.886
18	FR1 n12	15M	BPSK	1	1	-	Right Cheek	0mm	Ant 4	ECI 2	141500	707.5	1	22.70	24.00	1.349	-	-	0.00	0.533	0.719
	FR1 n12	15M	BPSK	36	22	-	Right Cheek	0mm	Ant 4	ECI 2	141500	707.5	1	22.56	24.00	1.393	-	-	-0.11	0.500	0.697
	FR1 n12	15M	BPSK	1	1	-	Right Tilted	0mm	Ant 4	ECI 2	141500	707.5	1	22.70	24.00	1.349	-	-	0.01	0.461	0.622
	FR1 n12	15M	BPSK	36	22	-	Right Tilted	0mm	Ant 4	ECI 2	141500	707.5	1	22.56	24.00	1.393	-	-	0.00	0.432	0.602
	FR1 n12	15M	BPSK	1	1	-	Left Cheek	0mm	Ant 4	ECI 2	141500	707.5	1	22.70	24.00	1.349	-	-	0.00	0.400	0.540
	FR1 n12	15M	BPSK	36	22	-	Left Cheek	0mm	Ant 4	ECI 2	141500	707.5	1	22.56	24.00	1.393	-	-	0.01	0.376	0.524
	FR1 n12	15M	BPSK	1	1	-	Left Tilted	0mm	Ant 4	ECI 2	141500	707.5	1	22.70	24.00	1.349	-	-	0.02	0.446	0.602
	FR1 n12	15M	BPSK	36	22	-	Left Tilted	0mm	Ant 4	ECI 2	141500	707.5	1	22.56	24.00	1.393	-	-	-0.07	0.353	0.492
	FR1 n12	15M	BPSK	1	1	-	Right Cheek	0mm	Ant 0	ECI 2	141500	707.5	1	23.13	24.00	1.222	-	-	-0.01	0.116	0.142
	FR1 n12	15M	BPSK	36	22	-	Right Cheek	0mm	Ant 0	ECI 2	141500	707.5	1	22.99	24.00	1.262	-	-	-0.08	0.111	0.140
	FR1 n12	15M	BPSK	1	1	-	Right Tilted	0mm	Ant 0	ECI 2	141500	707.5	1	23.13	24.00	1.222	-	-	-0.06	0.067	0.082
	FR1 n12	15M	BPSK	36	22	-	Right Tilted	0mm	Ant 0	ECI 2	141500	707.5	1	22.99	24.00	1.262	-	-	0.10	0.068	0.086
	FR1 n12	15M	BPSK	1	1	-	Left Cheek	0mm	Ant 0	ECI 2	141500	707.5	1	23.13	24.00	1.222	-	-	0.12	0.103	0.126
	FR1 n12	15M	BPSK	36	22	-	Left Cheek	0mm	Ant 0	ECI 2	141500	707.5	1	22.99	24.00	1.262	-	-	0.04	0.106	0.134
	FR1 n12	15M	BPSK	1	1	-	Left Tilted	0mm	Ant 0	ECI 2	141500	707.5	1	23.13	24.00	1.222	-	-	-0.11	0.061	0.075
	FR1 n12	15M	BPSK	36	22	-	Left Tilted	0mm	Ant 0	ECI 2	141500	707.5	1	22.99	24.00	1.262	-	-	0.11	0.060	0.076
19	FR1 n13	10M	BPSK	1	1	-	Right Cheek	0mm	Ant 4	ECI 2	156400	782	1	22.77	24.00	1.327	-	-	0.00	0.551	0.731
	FR1 n13	10M	BPSK	25	14	-	Right Cheek	0mm	Ant 4	ECI 2	156400	782	1	22.73	24.00	1.340	-	-	0.17	0.516	0.691
	FR1 n13	10M	BPSK	1	1	-	Right Tilted	0mm	Ant 4	ECI 2	156400	782	1	22.77	24.00	1.327	-	-	-0.02	0.395	0.524
	FR1 n13	10M	BPSK	25	14	-	Right Tilted	0mm	Ant 4	ECI 2	156400	782	1	22.73	24.00	1.340	-	-	-0.18	0.389	0.521
	FR1 n13	10M	BPSK	1	1	-	Left Cheek	0mm	Ant 4	ECI 2	156400	782	1	22.77	24.00	1.327	-	-	-0.01	0.420	0.557
	FR1 n13	10M	BPSK	25	14	-	Left Cheek	0mm	Ant 4	ECI 2	156400	782	1	22.73	24.00	1.340	-	-	-0.09	0.395	0.529
	FR1 n13	10M	BPSK	1	1	-	Left Tilted	0mm	Ant 4	ECI 2	156400	782	1	22.77	24.00	1.327	-	-	0.03	0.378	0.502
	FR1 n13	10M	BPSK	25	14	-	Left Tilted	0mm	Ant 4	ECI 2	156400	782	1	22.73	24.00	1.340	-	-	0.16	0.351	0.470
	FR1 n13	10M	BPSK	1	1	-	Right Cheek	0mm	Ant 0	ECI 2	156400	782	1	23.15	24.00	1.216	-	-	0.00	0.167	0.203
	FR1 n13	10M	BPSK	25	14	-	Right Cheek	0mm	Ant 0	ECI 2	156400	782	1	23.07	24.00	1.239	-	-	-0.05	0.162	0.201
	FR1 n13	10M	BPSK	1	1	-	Right Tilted	0mm	Ant 0	ECI 2	156400	782	1	23.15	24.00	1.216	-	-	0.06	0.101	0.123
	FR1 n13	10M	BPSK	25	14	-	Right Tilted	0mm	Ant 0	ECI 2	156400	782	1	23.07	24.00	1.239	-	-	0.17	0.093	0.115
	FR1 n13	10M	BPSK	1	1	-	Left Cheek	0mm	Ant 0	ECI 2	156400	782	1	23.15	24.00	1.216	-	-	-0.02	0.141	0.171
	FR1 n13	10M	BPSK	25	14	-	Left Cheek	0mm	Ant 0	ECI 2	156400	782	1	23.07	24.00	1.239	-	-	-0.08	0.136	0.169
	FR1 n13	10M	BPSK	1	1	-	Left Tilted	0mm	Ant 0	ECI 2	156400	782	1	23.15	24.00	1.216	-	-	-0.11	0.078	0.095
	FR1 n13	10M	BPSK	25	14	-	Left Tilted	0mm	Ant 0	ECI 2	156400	782	1	23.07	24.00	1.239	-	-	0.09	0.074	0.092
20	FR1 n14	10M	BPSK	1	1	-	Right Cheek	0mm	Ant 0	ECI 2	158600	793	1	23.15	24.00	1.216	-	-	0.01	0.196	0.238
	FR1 n14	10M	BPSK	25	14	-	Right Cheek	0mm	Ant 0	ECI 2	158600	793	1	23.07	24.00	1.239	-	-	-0.06	0.192	0.238
	FR1 n14	10M	BPSK	1	1	-	Right Tilted	0mm	Ant 0	ECI 2	158600	793	1	23.15	24.00	1.216	-	-	-0.10	0.109	0.133
	FR1 n14	10M	BPSK	25	14	-	Right Tilted	0mm	Ant 0	ECI 2	158600	793	1	23.07	24.00	1.239	-	-	0.05	0.108	0.134
	FR1 n14	10M	BPSK	1	1	-	Left Cheek	0mm	Ant 0	ECI 2	158600	793	1	23.15	24.00	1.216	-	-	0.04	0.162	0.197
	FR1 n14	10M	BPSK	25	14	-	Left Cheek	0mm	Ant 0	ECI 2	158600	793	1	23.07	24.00	1.239	-	-	0.13	0.155	0.192
	FR1 n14	10M	BPSK	1	1	-	Left Tilted	0mm	Ant 0	ECI 2	158600	793	1	23.15	24.00	1.216	-	-	0.03	0.089	0.108
	FR1 n14	10M	BPSK	25	14	-	Left Tilted	0mm	Ant 0	ECI 2	158600	793	1	23.07	24.00	1.239	-	-	-0.05	0.090	0.112
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Right Cheek	0mm	Ant 4	ECI 2	376500	1882.5	1	18.76	19.80	1.271	-	-	0.06	0.531	0.675
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Right Cheek	0mm	Ant 4	ECI 2	376500	1882.5	1	18.64	19.80	1.306	-	-	-0.19	0.528	0.690
21	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Right Tilted	0mm	Ant 4	ECI 2	376500	1882.5	1	18.76	19.80	1.271	-	-	0.00	0.683	0.868
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Right Tilted	0mm	Ant 4	ECI 2	376500	1882.5	1	18.64	19.80	1.306	-	-	0.01	0.566	0.739
	FR1 n25	40M	BPSK	216	0	PA (Reference Designator)	Right Tilted	0mm	Ant 4	ECI 2	376500	1882.5	1	18.67	19.80	1.297	-	-	0.17	0.511	0.663
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Left Cheek	0mm	Ant 4	ECI 2	376500	1882.5	1	18.76	19.80	1.271	-	-	-0.05	0.373	0.474
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Left Cheek	0mm	Ant 4	ECI 2	376500	1882.5	1	18.64	19.80	1.306	-	-	0.12	0.386	0.504
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Left Tilted	0mm	Ant 4	ECI 2	376500	1882.5	1	18.76	19.80	1.271	-	-	0.07	0.442	0.562
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Left Tilted	0mm	Ant 4	ECI 2	376500	1882.5	1	18.64	19.80	1.306	-	-	0.01	0.435	0.568



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	FR1 n25	40M	BPSK	1	1	Main PA	Right Tilted	0mm	Ant 4	ECI 2	376500	1882.5	1	18.42	19.80	1.374	-	-	0.01	0.568	0.780
	FR1 n25	40M	BPSK	1	1	Main PA	Right Cheek	0mm	Ant 0	ECI 2	376500	1882.5	1	23.05	24.00	1.245	-	-	0.07	0.105	0.131
	FR1 n25	40M	BPSK	108	54	Main PA	Right Cheek	0mm	Ant 0	ECI 2	376500	1882.5	1	23.00	24.00	1.259	-	-	0.00	0.104	0.131
	FR1 n25	40M	BPSK	1	1	Main PA	Right Tilted	0mm	Ant 0	ECI 2	376500	1882.5	1	23.05	24.00	1.245	-	-	-0.18	0.091	0.113
	FR1 n25	40M	BPSK	108	54	Main PA	Right Tilted	0mm	Ant 0	ECI 2	376500	1882.5	1	23.00	24.00	1.259	-	-	0.03	0.087	0.110
	FR1 n25	40M	BPSK	1	1	Main PA	Left Cheek	0mm	Ant 0	ECI 2	376500	1882.5	1	23.05	24.00	1.245	-	-	0.12	0.103	0.128
	FR1 n25	40M	BPSK	108	54	Main PA	Left Cheek	0mm	Ant 0	ECI 2	376500	1882.5	1	23.00	24.00	1.259	-	-	-0.16	0.104	0.131
	FR1 n25	40M	BPSK	1	1	Main PA	Left Tilted	0mm	Ant 0	ECI 2	376500	1882.5	1	23.05	24.00	1.245	-	-	-0.06	0.102	0.127
	FR1 n25	40M	BPSK	108	54	Main PA	Left Tilted	0mm	Ant 0	ECI 2	376500	1882.5	1	23.00	24.00	1.259	-	-	-0.06	0.102	0.128
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Right Cheek	0mm	Ant 0	ECI 2	376500	1882.5	1	22.96	24.00	1.271	-	-	0.00	0.103	0.131
22	FR1 n26	20M	BPSK	1	1	-	Right Cheek	0mm	Ant 4	ECI 2	166300	831.5	1	22.85	23.80	1.245	-	-	-0.03	0.708	0.881
	FR1 n26	20M	BPSK	50	28	-	Right Cheek	0mm	Ant 4	ECI 2	166300	831.5	1	22.74	23.80	1.276	-	-	-0.02	0.685	0.874
	FR1 n26	20M	BPSK	100	0	-	Right Cheek	0mm	Ant 4	ECI 2	166300	831.5	1	22.28	23.30	1.265	-	-	0.11	0.619	0.783
	FR1 n26	20M	BPSK	1	1	-	Right Tilted	0mm	Ant 4	ECI 2	166300	831.5	1	22.85	23.80	1.245	-	-	-0.16	0.530	0.660
	FR1 n26	20M	BPSK	50	28	-	Right Tilted	0mm	Ant 4	ECI 2	166300	831.5	1	22.74	23.80	1.276	-	-	0.13	0.519	0.662
	FR1 n26	20M	BPSK	1	1	-	Left Cheek	0mm	Ant 4	ECI 2	166300	831.5	1	22.85	23.80	1.245	-	-	-0.03	0.570	0.710
	FR1 n26	20M	BPSK	50	28	-	Left Cheek	0mm	Ant 4	ECI 2	166300	831.5	1	22.74	23.80	1.276	-	-	0.16	0.547	0.698
	FR1 n26	20M	BPSK	1	1	-	Left Tilted	0mm	Ant 4	ECI 2	166300	831.5	1	22.85	23.80	1.245	-	-	0.03	0.498	0.620
	FR1 n26	20M	BPSK	50	28	-	Left Tilted	0mm	Ant 4	ECI 2	166300	831.5	1	22.74	23.80	1.276	-	-	0.08	0.475	0.606
	FR1 n26	20M	BPSK	1	1	-	Right Cheek	0mm	Ant 0	ECI 2	166300	831.5	1	23.15	24.00	1.216	-	-	0.00	0.171	0.208
	FR1 n26	20M	BPSK	50	28	-	Right Cheek	0mm	Ant 0	ECI 2	166300	831.5	1	23.10	24.00	1.230	-	-	0.01	0.179	0.220
	FR1 n26	20M	BPSK	1	1	-	Right Tilted	0mm	Ant 0	ECI 2	166300	831.5	1	23.15	24.00	1.216	-	-	-0.18	0.112	0.136
	FR1 n26	20M	BPSK	50	28	-	Right Tilted	0mm	Ant 0	ECI 2	166300	831.5	1	23.10	24.00	1.230	-	-	0.01	0.101	0.124
	FR1 n26	20M	BPSK	1	1	-	Left Cheek	0mm	Ant 0	ECI 2	166300	831.5	1	23.15	24.00	1.216	-	-	-0.09	0.145	0.176
	FR1 n26	20M	BPSK	50	28	-	Left Cheek	0mm	Ant 0	ECI 2	166300	831.5	1	23.10	24.00	1.230	-	-	-0.03	0.150	0.185
	FR1 n26	20M	BPSK	1	1	-	Left Tilted	0mm	Ant 0	ECI 2	166300	831.5	1	23.15	24.00	1.216	-	-	0.18	0.092	0.112
	FR1 n26	20M	BPSK	50	28	-	Left Tilted	0mm	Ant 0	ECI 2	166300	831.5	1	23.10	24.00	1.230	-	-	-0.03	0.088	0.108
	FR1 n30	10M	BPSK	1	1	-	Right Cheek	0mm	Ant 1	ECI 2	462000	2310	1	23.15	24.00	1.216	-	-	-0.03	0.089	0.108
	FR1 n30	10M	BPSK	25	14	-	Right Cheek	0mm	Ant 1	ECI 2	462000	2310	1	23.08	24.00	1.236	-	-	-0.13	0.086	0.106
	FR1 n30	10M	BPSK	1	1	-	Right Tilted	0mm	Ant 1	ECI 2	462000	2310	1	23.15	24.00	1.216	-	-	0.18	0.061	0.074
	FR1 n30	10M	BPSK	25	14	-	Right Tilted	0mm	Ant 1	ECI 2	462000	2310	1	23.08	24.00	1.236	-	-	0.00	0.061	0.075
	FR1 n30	10M	BPSK	1	1	-	Left Cheek	0mm	Ant 1	ECI 2	462000	2310	1	23.15	24.00	1.216	-	-	0.05	0.137	0.167
23	FR1 n30	10M	BPSK	25	14	-	Left Cheek	0mm	Ant 1	ECI 2	462000	2310	1	23.08	24.00	1.236	-	-	-0.06	0.138	0.171
	FR1 n30	10M	BPSK	1	1	-	Left Tilted	0mm	Ant 1	ECI 2	462000	2310	1	23.15	24.00	1.216	-	-	0.17	0.057	0.069
	FR1 n30	10M	BPSK	25	14	-	Left Tilted	0mm	Ant 1	ECI 2	462000	2310	1	23.08	24.00	1.236	-	-	-0.09	0.056	0.069
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Right Cheek	0mm	Ant 4	ECI 2	349000	1745	1	20.09	20.50	1.099	-	-	-0.04	0.512	0.563
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Right Cheek	0mm	Ant 4	ECI 2	349000	1745	1	20.05	20.50	1.109	-	-	0.05	0.531	0.589
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Right Tilted	0mm	Ant 4	ECI 2	349000	1745	1	20.09	20.50	1.099	-	-	-0.11	0.715	0.786
	FR1 n66	45M	BPSK	240	0	PA (Reference Designator)	Right Tilted	0mm	Ant 4	ECI 2	349000	1745	1	19.28	20.50	1.324	-	-	0.12	0.498	0.659
24	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Right Tilted	0mm	Ant 4	ECI 2	349000	1745	1	20.05	20.50	1.109	-	-	0.00	0.729	0.808
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Left Cheek	0mm	Ant 4	ECI 2	349000	1745	1	20.09	20.50	1.099	-	-	0.13	0.384	0.422
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Left Cheek	0mm	Ant 4	ECI 2	349000	1745	1	20.05	20.50	1.109	-	-	-0.16	0.386	0.428
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Left Tilted	0mm	Ant 4	ECI 2	349000	1745	1	20.09	20.50	1.099	-	-	0.11	0.454	0.499
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Left Tilted	0mm	Ant 4	ECI 2	349000	1745	1	20.05	20.50	1.109	-	-	0.06	0.460	0.510
	FR1 n66	45M	BPSK	120	60	Main PA	Right Tilted	0mm	Ant 4	ECI 2	349000	1745	1	19.03	20.50	1.403	-	-	0.11	0.568	0.797
	FR1 n66	45M	BPSK	1	1	Main PA	Right Cheek	0mm	Ant 0	ECI 2	349000	1745	1	23.10	24.00	1.230	-	-	0.09	0.135	0.166
	FR1 n66	45M	BPSK	120	60	Main PA	Right Cheek	0mm	Ant 0	ECI 2	349000	1745	1	23.03	24.00	1.250	-	-	-0.02	0.146	0.183
	FR1 n66	45M	BPSK	1	1	Main PA	Right Tilted	0mm	Ant 0	ECI 2	349000	1745	1	23.10	24.00	1.230	-	-	0.09	0.083	0.102
	FR1 n66	45M	BPSK	120	60	Main PA	Right Tilted	0mm	Ant 0	ECI 2	349000	1745	1	23.03	24.00	1.250	-	-	0.02	0.088	0.110
	FR1 n66	45M	BPSK	1	1	Main PA	Left Cheek	0mm	Ant 0	ECI 2	349000	1745	1	23.10	24.00	1.230	-	-	-0.18	0.097	0.119
	FR1 n66	45M	BPSK	120	60	Main PA	Left Cheek	0mm	Ant 0	ECI 2	349000	1745	1	23.03	24.00	1.250	-	-	0.13	0.103	0.129
	FR1 n66	45M	BPSK	1	1	Main PA	Left Tilted	0mm	Ant 0	ECI 2	349000	1745	1	23.10	24.00	1.230	-	-	0.02	0.082	0.101
	FR1 n66	45M	BPSK	120	60	Main PA	Left Tilted	0mm	Ant 0	ECI 2	349000	1745	1	23.03	24.00	1.250	-	-	0.00	0.091	0.114
	FR1 n66	45M	BPSK	120	60	PA (Reference	Right Cheek	0mm	Ant 0	ECI 2	349000	1745	1	22.94	24.00	1.276	-	-	-0.07	0.142	0.181



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					Designator)																
	FR1 n70	15M	BPSK	1	1	-	Right Cheek	0mm	Ant 4	ECI 2	340500	1702.5	1	20.04	20.70	1.164	-	-	0.12	0.742	0.864
	FR1 n70	15M	BPSK	36	22	-	Right Cheek	0mm	Ant 4	ECI 2	340500	1702.5	1	20.02	20.70	1.169	-	-	0.08	0.728	0.851
	FR1 n70	15M	BPSK	75	0	-	Right Cheek	0mm	Ant 4	ECI 2	340500	1702.5	1	19.95	20.70	1.189	-	-	0.13	0.666	0.792
25	FR1 n70	15M	BPSK	1	1	-	Right Tilted	0mm	Ant 4	ECI 2	340500	1702.5	1	20.04	20.70	1.164	-	-	0.00	0.757	0.881
	FR1 n70	15M	BPSK	36	22	-	Right Tilted	0mm	Ant 4	ECI 2	340500	1702.5	1	20.02	20.70	1.169	-	-	0.15	0.750	0.877
	FR1 n70	15M	BPSK	75	0	-	Right Tilted	0mm	Ant 4	ECI 2	340500	1702.5	1	19.95	20.70	1.189	-	-	0.08	0.678	0.806
	FR1 n70	15M	BPSK	1	1	-	Left Cheek	0mm	Ant 4	ECI 2	340500	1702.5	1	20.04	20.70	1.164	-	-	0.19	0.515	0.599
	FR1 n70	15M	BPSK	36	22	-	Left Cheek	0mm	Ant 4	ECI 2	340500	1702.5	1	20.02	20.70	1.169	-	-	0.13	0.529	0.618
	FR1 n70	15M	BPSK	1	1	-	Left Tilted	0mm	Ant 4	ECI 2	340500	1702.5	1	20.04	20.70	1.164	-	-	-0.01	0.633	0.737
	FR1 n70	15M	BPSK	36	22	-	Left Tilted	0mm	Ant 4	ECI 2	340500	1702.5	1	20.02	20.70	1.169	-	-	0.18	0.624	0.729
	FR1 n70	15M	BPSK	1	1	-	Right Cheek	0mm	Ant 0	ECI 2	340500	1702.5	1	23.01	24.00	1.256	-	-	0.12	0.119	0.149
	FR1 n70	15M	BPSK	36	22	-	Right Cheek	0mm	Ant 0	ECI 2	340500	1702.5	1	22.96	24.00	1.271	-	-	0.02	0.121	0.154
	FR1 n70	15M	BPSK	1	1	-	Right Tilted	0mm	Ant 0	ECI 2	340500	1702.5	1	23.01	24.00	1.256	-	-	-0.17	0.065	0.082
	FR1 n70	15M	BPSK	36	22	-	Right Tilted	0mm	Ant 0	ECI 2	340500	1702.5	1	22.96	24.00	1.271	-	-	-0.18	0.067	0.085
	FR1 n70	15M	BPSK	1	1	-	Left Cheek	0mm	Ant 0	ECI 2	340500	1702.5	1	23.01	24.00	1.256	-	-	0.15	0.080	0.100
	FR1 n70	15M	BPSK	36	22	-	Left Cheek	0mm	Ant 0	ECI 2	340500	1702.5	1	22.96	24.00	1.271	-	-	0.07	0.082	0.104
	FR1 n70	15M	BPSK	1	1	-	Left Tilted	0mm	Ant 0	ECI 2	340500	1702.5	1	23.01	24.00	1.256	-	-	0.08	0.068	0.085
	FR1 n70	15M	BPSK	36	22	-	Left Tilted	0mm	Ant 0	ECI 2	340500	1702.5	1	22.96	24.00	1.271	-	-	0.13	0.068	0.086
26	FR1 n71	35M	BPSK	1	1	-	Right Cheek	0mm	Ant 4	ECI 2	136100	680.5	1	22.73	24.00	1.340	-	-	0.03	0.396	0.531
	FR1 n71	35M	BPSK	90	45	-	Right Cheek	0mm	Ant 4	ECI 2	136100	680.5	1	22.64	24.00	1.368	-	-	-0.19	0.267	0.365
	FR1 n71	35M	BPSK	1	1	-	Right Tilted	0mm	Ant 4	ECI 2	136100	680.5	1	22.73	24.00	1.340	-	-	-0.05	0.322	0.431
	FR1 n71	35M	BPSK	90	45	-	Right Tilted	0mm	Ant 4	ECI 2	136100	680.5	1	22.64	24.00	1.368	-	-	-0.04	0.221	0.302
	FR1 n71	35M	BPSK	1	1	-	Left Cheek	0mm	Ant 4	ECI 2	136100	680.5	1	22.73	24.00	1.340	-	-	-0.11	0.312	0.418
	FR1 n71	35M	BPSK	90	45	-	Left Cheek	0mm	Ant 4	ECI 2	136100	680.5	1	22.64	24.00	1.368	-	-	0.06	0.203	0.278
	FR1 n71	35M	BPSK	1	1	-	Left Tilted	0mm	Ant 4	ECI 2	136100	680.5	1	22.73	24.00	1.340	-	-	0.05	0.283	0.379
	FR1 n71	35M	BPSK	90	45	-	Left Tilted	0mm	Ant 4	ECI 2	136100	680.5	1	22.64	24.00	1.368	-	-	0.06	0.190	0.260
	FR1 n71	35M	BPSK	1	1	-	Right Cheek	0mm	Ant 0	ECI 2	136100	680.5	1	23.12	24.00	1.225	-	-	0.04	0.112	0.137
	FR1 n71	35M	BPSK	90	45	-	Right Cheek	0mm	Ant 0	ECI 2	136100	680.5	1	23.10	24.00	1.230	-	-	0.01	0.125	0.154
	FR1 n71	35M	BPSK	1	1	-	Right Tilted	0mm	Ant 0	ECI 2	136100	680.5	1	23.12	24.00	1.225	-	-	-0.08	0.060	0.074
	FR1 n71	35M	BPSK	90	45	-	Right Tilted	0mm	Ant 0	ECI 2	136100	680.5	1	23.10	24.00	1.230	-	-	0.14	0.071	0.087
	FR1 n71	35M	BPSK	1	1	-	Left Cheek	0mm	Ant 0	ECI 2	136100	680.5	1	23.12	24.00	1.225	-	-	0.03	0.112	0.137
	FR1 n71	35M	BPSK	90	45	-	Left Cheek	0mm	Ant 0	ECI 2	136100	680.5	1	23.10	24.00	1.230	-	-	0.00	0.117	0.144
	FR1 n71	35M	BPSK	1	1	-	Left Tilted	0mm	Ant 0	ECI 2	136100	680.5	1	23.12	24.00	1.225	-	-	0.01	0.058	0.071
	FR1 n71	35M	BPSK	90	45	-	Left Tilted	0mm	Ant 0	ECI 2	136100	680.5	1	23.10	24.00	1.230	-	-	-0.08	0.069	0.085
	FR1 n41	100M	BPSK	1	1	-	Right Cheek	0mm	Ant 1	ECI 2	518598	2592.99	1	23.06	24.00	1.242	-	-	-0.13	0.227	0.282
	FR1 n41	100M	BPSK	135	69	-	Right Cheek	0mm	Ant 1	ECI 2	518598	2592.99	1	22.91	24.00	1.285	-	-	0.10	0.224	0.288
	FR1 n41	100M	BPSK	1	1	-	Right Tilted	0mm	Ant 1	ECI 2	518598	2592.99	1	23.06	24.00	1.242	-	-	0.06	0.149	0.185
	FR1 n41	100M	BPSK	135	69	-	Right Tilted	0mm	Ant 1	ECI 2	518598	2592.99	1	22.91	24.00	1.285	-	-	-0.02	0.139	0.179
	FR1 n41	100M	BPSK	1	1	-	Left Cheek	0mm	Ant 1	ECI 2	518598	2592.99	1	23.06	24.00	1.242	-	-	0.18	0.426	0.529
	FR1 n41	100M	BPSK	135	69	-	Left Cheek	0mm	Ant 1	ECI 2	518598	2592.99	1	22.91	24.00	1.285	-	-	0.19	0.343	0.441
	FR1 n41	100M	BPSK	1	1	-	Left Tilted	0mm	Ant 1	ECI 2	518598	2592.99	1	23.06	24.00	1.242	-	-	-0.18	0.100	0.124
	FR1 n41	100M	BPSK	135	69	-	Left Tilted	0mm	Ant 1	ECI 2	518598	2592.99	1	22.91	24.00	1.285	-	-	-0.10	0.099	0.127
	FR1 n41 HPUE	100M	BPSK	1	1	-	Left Cheek	0mm	Ant 1	ECI 2	518598	2592.99	1	25.79	27.00	1.321	50.0	1.000	0.00	0.434	0.573
	FR1 n41	100M	BPSK	1	1	Main PA	Right Cheek	0mm	Ant 2	ECI 2	518598	2592.99	1	20.22	21.00	1.197	-	-	-0.17	0.147	0.176
	FR1 n41	100M	BPSK	135	69	Main PA	Right Cheek	0mm	Ant 2	ECI 2	518598	2592.99	1	20.17	21.00	1.211	-	-	0.17	0.226	0.274
	FR1 n41	100M	BPSK	1	1	Main PA	Right Tilted	0mm	Ant 2	ECI 2	518598	2592.99	1	20.22	21.00	1.197	-	-	-0.12	0.031	0.037
	FR1 n41	100M	BPSK	135	69	Main PA	Right Tilted	0mm	Ant 2	ECI 2	518598	2592.99	1	20.17	21.00	1.211	-	-	0.07	0.038	0.046
	FR1 n41	100M	BPSK	1	1	Main PA	Left Cheek	0mm	Ant 2	ECI 2	518598	2592.99	1	20.22	21.00	1.197	-	-	-0.08	0.176	0.211
	FR1 n41	100M	BPSK	135	69	Main PA	Left Cheek	0mm	Ant 2	ECI 2	518598	2592.99	1	20.17	21.00	1.211	-	-	0.18	0.289	0.350
	FR1 n41	100M	BPSK	1	1	Main PA	Left Tilted	0mm	Ant 2	ECI 2	518598	2592.99	1	20.22	21.00	1.197	-	-	-0.13	0.015	0.018
	FR1 n41	100M	BPSK	135	69	Main PA	Left Tilted	0mm	Ant 2	ECI 2	518598	2592.99	1	20.17	21.00	1.211	-	-	0.00	0.027	0.033
	FR1 n41 HPUE	100M	BPSK	135	69	Main PA	Left Cheek	0mm	Ant 2	ECI 2	518598	2592.99	1	22.98	24.00	1.265	50.0	1.000	0.02	0.291	0.368
	FR1 n41 HPUE	100M	BPSK	135	69	PA (Reference Designator)	Left Cheek	0mm	Ant 2	ECI 2	518598	2592.99	1	23.08	24.00	1.236	50.0	1.000	0.17	0.276	0.341
	FR1 n41	100M	BPSK	1	1	Main PA	Right Cheek	0mm	Ant 4	ECI 2	518598	2592.99	1	15.46	17.00	1.426	-	-	-0.11	0.414	0.590



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	FR1 n41	100M	BPSK	135	69	Main PA	Right Cheek	0mm	Ant 4	ECI 2	518598	2592.99	1	15.41	17.00	1.442	-	-	0.11	0.389	0.561
	FR1 n41	100M	BPSK	1	1	Main PA	Right Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	15.46	17.00	1.426	-	-	-0.06	0.532	0.759
	FR1 n41	100M	BPSK	135	69	Main PA	Right Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	15.41	17.00	1.442	-	-	0.01	0.486	0.701
	FR1 n41	100M	BPSK	1	1	Main PA	Left Cheek	0mm	Ant 4	ECI 2	518598	2592.99	1	15.46	17.00	1.426	-	-	0.04	0.263	0.375
	FR1 n41	100M	BPSK	135	69	Main PA	Left Cheek	0mm	Ant 4	ECI 2	518598	2592.99	1	15.41	17.00	1.442	-	-	-0.04	0.234	0.337
	FR1 n41	100M	BPSK	1	1	Main PA	Left Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	15.46	17.00	1.426	-	-	0.14	0.350	0.499
	FR1 n41	100M	BPSK	135	69	Main PA	Left Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	15.41	17.00	1.442	-	-	-0.07	0.311	0.448
27	FR1 n41 HPUE	100M	BPSK	1	1	Main PA	Right Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	18.78	20.00	1.324	50.0	1.000	-0.01	0.593	0.785
	FR1 n41 HPUE	100M	BPSK	1	1	PA (Reference Designator)	Right Tilted	0mm	Ant 4	ECI 2	518598	2592.99	1	18.68	20.00	1.355	50.0	1.000	-0.01	0.543	0.736
	FR1 n41	100M	BPSK	1	1	-	Right Cheek	0mm	Ant 7	ECI 2	518598	2592.99	1	18.61	20.00	1.377	-	-	-0.01	0.145	0.200
	FR1 n41	100M	BPSK	135	69	-	Right Cheek	0mm	Ant 7	ECI 2	518598	2592.99	1	18.44	20.00	1.432	-	-	0.12	0.148	0.212
	FR1 n41	100M	BPSK	1	1	-	Right Tilted	0mm	Ant 7	ECI 2	518598	2592.99	1	18.61	20.00	1.377	-	-	0.08	0.078	0.107
	FR1 n41	100M	BPSK	135	69	-	Right Tilted	0mm	Ant 7	ECI 2	518598	2592.99	1	18.44	20.00	1.432	-	-	-0.18	0.091	0.130
	FR1 n41	100M	BPSK	1	1	-	Left Cheek	0mm	Ant 7	ECI 2	518598	2592.99	1	18.61	20.00	1.377	-	-	0.13	0.488	0.672
	FR1 n41	100M	BPSK	135	69	-	Left Cheek	0mm	Ant 7	ECI 2	518598	2592.99	1	18.44	20.00	1.432	-	-	0.00	0.494	0.707
	FR1 n41	100M	BPSK	1	1	-	Left Tilted	0mm	Ant 7	ECI 2	518598	2592.99	1	18.61	20.00	1.377	-	-	0.17	0.218	0.300
	FR1 n41	100M	BPSK	135	69	-	Left Tilted	0mm	Ant 7	ECI 2	518598	2592.99	1	18.44	20.00	1.432	-	-	-0.08	0.233	0.334
	FR1 n41 HPUE	100M	BPSK	135	69	-	Left Cheek	0mm	Ant 7	ECI 2	518598	2592.99	1	21.41	23.00	1.442	50.0	1.000	0.13	0.490	0.707
	FR1 n41	100M	BPSK	135	69	-	Left Cheek	0mm	Ant 7	ECI 2	518598	2592.99	2	18.44	20.00	1.432	-	-	0.05	0.471	0.674
	FR1 n48	40M	BPSK	1	1	-	Right Cheek	0mm	Ant 1	ECI 2	641666	3624.99	1	18.60	19.00	1.096	-	-	-0.03	0.001	0.001
	FR1 n48	40M	BPSK	50	28	-	Right Cheek	0mm	Ant 1	ECI 2	641666	3624.99	1	18.54	19.00	1.112	-	-	0.16	0.001	0.001
	FR1 n48	40M	BPSK	1	1	-	Right Tilted	0mm	Ant 1	ECI 2	641666	3624.99	1	18.60	19.00	1.096	-	-	0.03	0.001	0.001
	FR1 n48	40M	BPSK	50	28	-	Right Tilted	0mm	Ant 1	ECI 2	641666	3624.99	1	18.54	19.00	1.112	-	-	-0.19	0.001	0.001
	FR1 n48	40M	BPSK	1	1	-	Left Cheek	0mm	Ant 1	ECI 2	641666	3624.99	1	18.60	19.00	1.096	-	-	-0.10	0.015	0.016
	FR1 n48	40M	BPSK	50	28	-	Left Cheek	0mm	Ant 1	ECI 2	641666	3624.99	1	18.54	19.00	1.112	-	-	0.06	0.024	0.027
	FR1 n48	40M	BPSK	1	1	-	Left Tilted	0mm	Ant 1	ECI 2	641666	3624.99	1	18.60	19.00	1.096	-	-	-0.11	0.001	0.001
	FR1 n48	40M	BPSK	50	28	-	Left Tilted	0mm	Ant 1	ECI 2	641666	3624.99	1	18.54	19.00	1.112	-	-	0.19	0.001	0.001
	FR1 n48	40M	BPSK	1	1	-	Right Cheek	0mm	Ant 3	ECI 2	641666	3624.99	1	18.80	20.00	1.318	-	-	0.13	0.612	0.807
	FR1 n48	40M	BPSK	1	1	-	Right Cheek	0mm	Ant 3	ECI 2	638000	3570	1	18.57	20.00	1.390	-	-	-0.18	0.554	0.770
	FR1 n48	40M	BPSK	1	1	-	Right Cheek	0mm	Ant 3	ECI 2	645332	3679.98	1	18.59	20.00	1.384	-	-	-0.06	0.568	0.786
	FR1 n48	40M	BPSK	50	28	-	Right Cheek	0mm	Ant 3	ECI 2	641666	3624.99	1	18.69	20.00	1.352	-	-	0.00	0.556	0.752
	FR1 n48	40M	BPSK	50	28	-	Right Cheek	0mm	Ant 3	ECI 2	638000	3570	1	18.42	20.00	1.439	-	-	-0.18	0.575	0.827
28	FR1 n48	40M	BPSK	50	28	-	Right Cheek	0mm	Ant 3	ECI 2	645332	3679.98	1	18.36	20.00	1.459	-	-	-0.02	0.604	0.881
	FR1 n48	40M	BPSK	100	0	-	Right Cheek	0mm	Ant 3	ECI 2	641666	3624.99	1	16.65	18.00	1.365	-	-	0.18	0.369	0.504
	FR1 n48	40M	BPSK	1	1	-	Right Tilted	0mm	Ant 3	ECI 2	641666	3624.99	1	18.80	20.00	1.318	-	-	0.19	0.365	0.481
	FR1 n48	40M	BPSK	50	28	-	Right Tilted	0mm	Ant 3	ECI 2	641666	3624.99	1	18.69	20.00	1.352	-	-	-0.08	0.355	0.480
	FR1 n48	40M	BPSK	1	1	-	Left Cheek	0mm	Ant 3	ECI 2	641666	3624.99	1	18.80	20.00	1.318	-	-	0.00	0.190	0.250
	FR1 n48	40M	BPSK	50	28	-	Left Cheek	0mm	Ant 3	ECI 2	641666	3624.99	1	18.69	20.00	1.352	-	-	0.08	0.198	0.268
	FR1 n48	40M	BPSK	1	1	-	Left Tilted	0mm	Ant 3	ECI 2	641666	3624.99	1	18.80	20.00	1.318	-	-	0.16	0.175	0.231
	FR1 n48	40M	BPSK	50	28	-	Left Tilted	0mm	Ant 3	ECI 2	641666	3624.99	1	18.69	20.00	1.352	-	-	-0.05	0.198	0.268
	FR1 n48	40M	BPSK	50	28	-	Right Cheek	0mm	Ant 3	ECI 2	645332	3679.98	2	18.36	20.00	1.459	-	-	-0.01	0.564	0.823
	FR1 n48	40M	BPSK	1	1	-	Right Cheek	0mm	Ant 5	ECI 2	641666	3624.99	1	17.67	19.00	1.358	-	-	0.15	0.406	0.551
	FR1 n48	40M	BPSK	50	28	-	Right Cheek	0mm	Ant 5	ECI 2	641666	3624.99	1	17.64	19.00	1.368	-	-	-0.01	0.403	0.551
	FR1 n48	40M	BPSK	1	1	-	Right Tilted	0mm	Ant 5	ECI 2	641666	3624.99	1	17.67	19.00	1.358	-	-	0.12	0.406	0.551
	FR1 n48	40M	BPSK	50	28	-	Right Tilted	0mm	Ant 5	ECI 2	641666	3624.99	1	17.64	19.00	1.368	-	-	0.00	0.415	0.568
	FR1 n48	40M	BPSK	1	1	-	Left Cheek	0mm	Ant 5	ECI 2	641666	3624.99	1	17.67	19.00	1.358	-	-	0.01	0.627	0.851
	FR1 n48	40M	BPSK	1	1	-	Left Cheek	0mm	Ant 5	ECI 2	638000	3570	1	17.59	19.00	1.384	-	-	0.04	0.621	0.859
	FR1 n48	40M	BPSK	1	1	-	Left Cheek	0mm	Ant 5	ECI 2	645332	3679.98	1	17.63	19.00	1.371	-	-	-0.14	0.566	0.776
	FR1 n48	40M	BPSK	50	28	-	Left Cheek	0mm	Ant 5	ECI 2	641666	3624.99	1	17.64	19.00	1.368	-	-	-0.01	0.605	0.828
	FR1 n48	40M	BPSK	50	28	-	Left Cheek	0mm	Ant 5	ECI 2	638000	3570	1	17.63	19.00	1.371	-	-	0.10	0.585	0.802
	FR1 n48	40M	BPSK	50	28	-	Left Cheek	0mm	Ant 5	ECI 2	645332	3679.98	1	17.64	19.00	1.368	-	-	-0.12	0.581	0.795
	FR1 n48	40M	BPSK	100	0	-	Left Cheek	0mm	Ant 5	ECI 2	641666	3624.99	1	17.45	19.00	1.429	-	-	0.03	0.346	0.494
	FR1 n48	40M	BPSK	1	1	-	Left Tilted	0mm	Ant 5	ECI 2	641666	3624.99	1	17.67	19.00	1.358	-	-	-0.02	0.516	0.701
	FR1 n48	40M	BPSK	1	1	-	Left Tilted	0mm	Ant 5	ECI 2	638000	3570	1	17.59	19.00	1.384	-	-	-0.17	0.559	0.774
	FR1 n48	40M	BPSK	1	1	-	Left Tilted	0mm	Ant 5	ECI 2	645332	3679.98	1	17.63	19.00	1.371	-	-	-0.04	0.566	0.776



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	FR1 n48	40M	BPSK	50	28	-	Left Tilted	0mm	Ant 5	ECI 2	641666	3624.99	1	17.64	19.00	1.368	-	-	-0.10	0.566	0.774
	FR1 n48	40M	BPSK	50	28	-	Left Tilted	0mm	Ant 5	ECI 2	638000	3570	1	17.63	19.00	1.371	-	-	0.14	0.550	0.754
	FR1 n48	40M	BPSK	50	28	-	Left Tilted	0mm	Ant 5	ECI 2	645332	3679.98	1	17.64	19.00	1.368	-	-	0.03	0.559	0.765
	FR1 n48	40M	BPSK	1	1	-	Right Cheek	0mm	Ant 8	ECI 2	641666	3624.99	1	22.29	24.00	1.483	-	-	0.13	0.139	0.206
	FR1 n48	40M	BPSK	50	28	-	Right Cheek	0mm	Ant 8	ECI 2	641666	3624.99	1	22.29	24.00	1.483	-	-	0.11	0.142	0.211
	FR1 n48	40M	BPSK	1	1	-	Right Tilted	0mm	Ant 8	ECI 2	641666	3624.99	1	22.29	24.00	1.483	-	-	-0.08	0.172	0.255
	FR1 n48	40M	BPSK	50	28	-	Right Tilted	0mm	Ant 8	ECI 2	641666	3624.99	1	22.29	24.00	1.483	-	-	-0.18	0.178	0.264
	FR1 n48	40M	BPSK	1	1	-	Left Cheek	0mm	Ant 8	ECI 2	641666	3624.99	1	22.29	24.00	1.483	-	-	0.04	0.267	0.396
	FR1 n48	40M	BPSK	50	28	-	Left Cheek	0mm	Ant 8	ECI 2	641666	3624.99	1	22.29	24.00	1.483	-	-	0.08	0.259	0.384
	FR1 n48	40M	BPSK	1	1	-	Left Tilted	0mm	Ant 8	ECI 2	641666	3624.99	1	22.29	24.00	1.483	-	-	-0.17	0.202	0.300
	FR1 n48	40M	BPSK	50	28	-	Left Tilted	0mm	Ant 8	ECI 2	641666	3624.99	1	22.29	24.00	1.483	-	-	-0.17	0.204	0.303

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	PA	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 2	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	-0.06	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	ECI 2	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	-0.17	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Tilted	0mm	Ant 1	ECI 2	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	0.04	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Tilted	0mm	Ant 1	ECI 2	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	-0.06	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI 2	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	-0.17	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Cheek	0mm	Ant 1	ECI 2	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	0.02	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Tilted	0mm	Ant 1	ECI 2	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	0.09	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Tilted	0mm	Ant 1	ECI 2	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	-0.06	0.001	0.001
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 2	633332	3499.98	1	PA (Reference Designator)	26.16	27.00	1.213	50.0	1.000	-0.17	0.001	0.001
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 2	633332	3499.98	1	Main PA	21.26	22.00	1.186	50.0	1.000	0.04	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 2	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	0.18	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Cheek	0mm	Ant 1	ECI 2	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.00	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Tilted	0mm	Ant 1	ECI 2	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	0.11	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Tilted	0mm	Ant 1	ECI 2	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.00	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Cheek	0mm	Ant 1	ECI 2	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	0.18	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Cheek	0mm	Ant 1	ECI 2	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.00	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Tilted	0mm	Ant 1	ECI 2	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	-0.06	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Tilted	0mm	Ant 1	ECI 2	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.00	0.001	0.001
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 2	655668	3835.02	1	PA (Reference Designator)	26.25	27.00	1.189	50.0	1.000	0.04	0.001	0.001
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Right Cheek	0mm	Ant 1	ECI 2	655668	3835.02	1	Main PA	21.18	22.00	1.208	50.0	1.000	0.09	0.001	0.001
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 2	633332	3499.98	1	PA (Reference Designator)	17.68	19.50	1.521	100.0	1.000	-0.03	0.364	0.554
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 2	633332	3499.98	1	PA (Reference Designator)	17.59	19.50	1.552	100.0	1.000	0.10	0.397	0.616
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 2	633332	3499.98	1	PA (Reference Designator)	17.68	19.50	1.521	100.0	1.000	-0.17	0.205	0.312
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Tilted	0mm	Ant 3	ECI 2	633332	3499.98	1	PA (Reference Designator)	17.59	19.50	1.552	100.0	1.000	0.03	0.212	0.329
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 2	633332	3499.98	1	PA (Reference Designator)	17.68	19.50	1.521	100.0	1.000	-0.16	0.108	0.164
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Cheek	0mm	Ant 3	ECI 2	633332	3499.98	1	PA (Reference Designator)	17.59	19.50	1.552	100.0	1.000	-0.14	0.111	0.172
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI 2	633332	3499.98	1	PA (Reference Designator)	17.68	19.50	1.521	100.0	1.000	0.11	0.099	0.151
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Tilted	0mm	Ant 3	ECI 2	633332	3499.98	1	PA (Reference Designator)	17.59	19.50	1.552	100.0	1.000	-0.06	0.104	0.161
	FR1 n77 (27Q)_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 2	633332	3499.98	1	PA (Reference Designator)	20.58	22.50	1.556	50.0	1.000	-0.02	0.418	0.650
	FR1 n77 (27Q)_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 2	633332	3499.98	1	Main PA	16.20	17.50	1.349	50.0	1.000	0.18	0.146	0.197
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 2	661334	3920.01	1	PA (Reference Designator)	17.81	19.50	1.476	100.0	1.000	0.10	0.349	0.515
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 2	650000	3750	1	PA (Reference Designator)	17.71	19.50	1.510	100.0	1.000	0.11	0.351	0.530
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 2	655668	3835.02	1	PA (Reference Designator)	17.75	19.50	1.496	100.0	1.000	0.09	0.388	0.580
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 3	ECI 2	662000	3930	1	PA (Reference Designator)	17.73	19.50	1.503	100.0	1.000	0.05	0.311	0.467



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FR1 n77 (270)	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 2	661334	3920.01	1	PA (Reference Designator)	17.75	19.50	1.496	100.0	1.000	0.13	0.417	0.624
FR1 n77 (270)	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 2	650000	3750	1	PA (Reference Designator)	17.57	19.50	1.560	100.0	1.000	0.07	0.491	0.766
FR1 n77 (270)	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 2	655668	3835.02	1	PA (Reference Designator)	17.66	19.50	1.528	100.0	1.000	0.17	0.490	0.749
FR1 n77 (270)	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 2	662000	3930	1	PA (Reference Designator)	17.74	19.50	1.500	100.0	1.000	-0.05	0.356	0.534
FR1 n77 (270)	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 2	661334	3920.01	1	PA (Reference Designator)	17.81	19.50	1.476	100.0	1.000	0.09	0.312	0.461
FR1 n77 (270)	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 2	650000	3750	1	PA (Reference Designator)	17.71	19.50	1.510	100.0	1.000	0.00	0.258	0.390
FR1 n77 (270)	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 2	655668	3835.02	1	PA (Reference Designator)	17.75	19.50	1.496	100.0	1.000	-0.05	0.282	0.422
FR1 n77 (270)	100M	BPSK	1	1	Right Tilted	0mm	Ant 3	ECI 2	662000	3930	1	PA (Reference Designator)	17.73	19.50	1.503	100.0	1.000	0.15	0.278	0.418
FR1 n77 (270)	100M	BPSK	135	69	Right Tilted	0mm	Ant 3	ECI 2	661334	3920.01	1	PA (Reference Designator)	17.75	19.50	1.496	100.0	1.000	-0.11	0.263	0.393
FR1 n77 (270)	100M	BPSK	1	1	Left Cheek	0mm	Ant 3	ECI 2	661334	3920.01	1	PA (Reference Designator)	17.81	19.50	1.476	100.0	1.000	0.16	0.164	0.242
FR1 n77 (270)	100M	BPSK	135	69	Left Cheek	0mm	Ant 3	ECI 2	661334	3920.01	1	PA (Reference Designator)	17.75	19.50	1.496	100.0	1.000	-0.01	0.153	0.229
FR1 n77 (270)	100M	BPSK	1	1	Left Tilted	0mm	Ant 3	ECI 2	661334	3920.01	1	PA (Reference Designator)	17.81	19.50	1.476	100.0	1.000	0.00	0.156	0.230
FR1 n77 (270)	100M	BPSK	135	69	Left Tilted	0mm	Ant 3	ECI 2	661334	3920.01	1	PA (Reference Designator)	17.75	19.50	1.496	100.0	1.000	-0.10	0.144	0.215
FR1 n77 (270)_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 2	661334	3920.01	1	PA (Reference Designator)	20.74	22.50	1.500	50.0	1.000	-0.12	0.461	0.692
FR1 n77 (270)_HPUE	100M	BPSK	135	69	Right Cheek	0mm	Ant 3	ECI 2	655668	3835.02	1	Main PA	16.09	17.50	1.384	50.0	1.000	-0.14	0.203	0.281
FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 5	ECI 2	633332	3499.98	1		16.79	18.00	1.321	100.0	1.000	-0.15	0.324	0.428
FR1 n77 (27Q)	100M	BPSK	135	69	Right Cheek	0mm	Ant 5	ECI 2	633332	3499.98	1		16.74	18.00	1.337	100.0	1.000	0.05	0.289	0.386
FR1 n77 (27Q)	100M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI 2	633332	3499.98	1		16.79	18.00	1.321	100.0	1.000	0.04	0.324	0.428
FR1 n77 (27Q)	100M	BPSK	135	69	Right Tilted	0mm	Ant 5	ECI 2	633332	3499.98	1		16.74	18.00	1.337	100.0	1.000	-0.13	0.291	0.389
FR1 n77 (27Q)	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI 2	633332	3499.98	1		16.79	18.00	1.321	100.0	1.000	-0.09	0.504	0.666
FR1 n77 (27Q)	100M	BPSK	135	69	Left Cheek	0mm	Ant 5	ECI 2	633332	3499.98	1		16.74	18.00	1.337	100.0	1.000	-0.13	0.462	0.618
FR1 n77 (27Q)	100M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI 2	633332	3499.98	1		16.79	18.00	1.321	100.0	1.000	0.15	0.462	0.610
FR1 n77 (27Q)	100M	BPSK	135	69	Left Tilted	0mm	Ant 5	ECI 2	633332	3499.98	1		16.74	18.00	1.337	100.0	1.000	-0.18	0.414	0.554
FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI 2	633332	3499.98	1		19.61	21.00	1.377	50.0	1.000	0.03	0.484	0.666
FR1 n77 (270)	100M	BPSK	1	1	Right Cheek	0mm	Ant 5	ECI 2	661334	3920.01	1		16.94	18.00	1.276	100.0	1.000	0.13	0.303	0.387
FR1 n77 (270)	100M	BPSK	135	69	Right Cheek	0mm	Ant 5	ECI 2	661334	3920.01	1		16.91	18.00	1.285	100.0	1.000	-0.05	0.351	0.451
FR1 n77 (270)	100M	BPSK	135	69	Right Cheek	0mm	Ant 5	ECI 2	650000	3750	1		16.79	18.00	1.321	100.0	1.000	-0.04	0.343	0.453
FR1 n77 (270)	100M	BPSK	135	69	Right Cheek	0mm	Ant 5	ECI 2	655668	3835.02	1		16.74	18.00	1.337	100.0	1.000	-0.03	0.315	0.421
FR1 n77 (270)	100M	BPSK	135	69	Right Cheek	0mm	Ant 5	ECI 2	662000	3930	1		16.70	18.00	1.349	100.0	1.000	0.06	0.288	0.389
FR1 n77 (270)	100M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI 2	661334	3920.01	1		16.94	18.00	1.276	100.0	1.000	-0.17	0.360	0.459
FR1 n77 (270)	100M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI 2	650000	3750	1		16.85	18.00	1.303	100.0	1.000	0.10	0.345	0.450
FR1 n77 (270)	100M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI 2	655668	3835.02	1		16.81	18.00	1.315	100.0	1.000	-0.07	0.339	0.446
FR1 n77 (270)	100M	BPSK	1	1	Right Tilted	0mm	Ant 5	ECI 2	662000	3930	1		16.78	18.00	1.324	100.0	1.000	0.05	0.346	0.458
FR1 n77 (270)	100M	BPSK	135	69	Right Tilted	0mm	Ant 5	ECI 2	661334	3920.01	1		16.91	18.00	1.285	100.0	1.000	0.17	0.409	0.526
FR1 n77 (270)	100M	BPSK	135	69	Right Tilted	0mm	Ant 5	ECI 2	650000	3750	1		16.79	18.00	1.321	100.0	1.000	-0.10	0.394	0.520
FR1 n77 (270)	100M	BPSK	135	69	Right Tilted	0mm	Ant 5	ECI 2	655668	3835.02	1		16.74	18.00	1.337	100.0	1.000	0.01	0.372	0.497
FR1 n77 (270)	100M	BPSK	135	69	Right Tilted	0mm	Ant 5	ECI 2	662000	3930	1		16.70	18.00	1.349	100.0	1.000	0.11	0.388	0.523
FR1 n77 (270)	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI 2	661334	3920.01	1		16.94	18.00	1.276	100.0	1.000	0.12	0.478	0.610
FR1 n77 (270)	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI 2	650000	3750	1		16.85	18.00	1.303	100.0	1.000	-0.15	0.460	0.599
FR1 n77 (270)	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI 2	655668	3835.02	1		16.81	18.00	1.315	100.0	1.000	0.02	0.447	0.588
FR1 n77 (270)	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	ECI 2	662000	3930	1		16.78	18.00	1.324	100.0	1.000	-0.06	0.436	0.577
FR1 n77 (270)	100M	BPSK	135	69	Left Cheek	0mm	Ant 5	ECI 2	661334	3920.01	1		16.91	18.00	1.285	100.0	1.000	-0.08	0.560	0.720
FR1 n77 (270)	100M	BPSK	135	69	Left Cheek	0mm	Ant 5	ECI 2	650000	3750	1		16.79	18.00	1.321	100.0	1.000	-0.02	0.543	0.717
FR1 n77 (270)	100M	BPSK	135	69	Left Cheek	0mm	Ant 5	ECI 2	655668	3835.02	1		16.74	18.00	1.337	100.0	1.000	-0.17	0.529	0.707
FR1 n77 (270)	100M	BPSK	135	69	Left Cheek	0mm	Ant 5	ECI 2	662000	3930	1		16.70	18.00	1.349	100.0	1.000	0.06	0.531	0.716
FR1 n77 (270)	100M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI 2	661334	3920.01	1		16.94	18.00	1.276	100.0	1.000	-0.03	0.476	0.607



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	FR1 n77 (27O)	100M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI 2	650000	3750	1		16.85	18.00	1.303	100.0	1.000	-0.18	0.466	0.607
	FR1 n77 (27O)	100M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI 2	655668	3835.02	1		16.81	18.00	1.315	100.0	1.000	-0.18	0.439	0.577
	FR1 n77 (27O)	100M	BPSK	1	1	Left Tilted	0mm	Ant 5	ECI 2	662000	3930	1		16.78	18.00	1.324	100.0	1.000	0.06	0.435	0.576
	FR1 n77 (27O)	100M	BPSK	135	69	Left Tilted	0mm	Ant 5	ECI 2	661334	3920.01	1		16.91	18.00	1.285	100.0	1.000	0.00	0.556	0.714
	FR1 n77 (27O)	100M	BPSK	135	69	Left Tilted	0mm	Ant 5	ECI 2	650000	3750	1		16.79	18.00	1.321	100.0	1.000	0.07	0.537	0.709
	FR1 n77 (27O)	100M	BPSK	135	69	Left Tilted	0mm	Ant 5	ECI 2	655668	3835.02	1		16.74	18.00	1.337	100.0	1.000	-0.15	0.513	0.686
	FR1 n77 (27O)	100M	BPSK	135	69	Left Tilted	0mm	Ant 5	ECI 2	662000	3930	1		16.70	18.00	1.349	100.0	1.000	0.06	0.528	0.712
29	FR1 n77 (27O)_HPUE	100M	BPSK	135	69	Left Cheek	0mm	Ant 5	ECI 2	661334	3920.01	1		19.95	21.00	1.274	50.0	1.000	0.01	0.617	0.786
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	ECI 2	633332	3499.98	1		24.32	25.00	1.169	100.0	1.000	-0.19	0.224	0.262
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	ECI 2	633332	3499.98	1		24.20	25.00	1.202	100.0	1.000	-0.09	0.247	0.297
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Tilted	0mm	Ant 8	ECI 2	633332	3499.98	1		24.32	25.00	1.169	100.0	1.000	-0.18	0.254	0.297
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Tilted	0mm	Ant 8	ECI 2	633332	3499.98	1		24.20	25.00	1.202	100.0	1.000	0.01	0.251	0.302
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	ECI 2	633332	3499.98	1		24.32	25.00	1.169	100.0	1.000	-0.16	0.463	0.541
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Cheek	0mm	Ant 8	ECI 2	633332	3499.98	1		24.20	25.00	1.202	100.0	1.000	0.01	0.446	0.536
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Tilted	0mm	Ant 8	ECI 2	633332	3499.98	1		24.32	25.00	1.169	100.0	1.000	-0.19	0.416	0.486
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Tilted	0mm	Ant 8	ECI 2	633332	3499.98	1		24.20	25.00	1.202	100.0	1.000	0.16	0.408	0.490
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	ECI 2	633332	3499.98	1		24.81	26.00	1.315	50.0	1.000	0.00	0.237	0.312
	FR1 n77 (27O)	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	ECI 2	661334	3920.01	1		24.69	25.00	1.074	100.0	1.000	-0.01	0.206	0.221
	FR1 n77 (27O)	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	ECI 2	661334	3920.01	1		24.59	25.00	1.099	100.0	1.000	0.17	0.173	0.190
	FR1 n77 (27O)	100M	BPSK	1	1	Right Tilted	0mm	Ant 8	ECI 2	661334	3920.01	1		24.69	25.00	1.074	100.0	1.000	-0.01	0.225	0.242
	FR1 n77 (27O)	100M	BPSK	135	69	Right Tilted	0mm	Ant 8	ECI 2	661334	3920.01	1		24.59	25.00	1.099	100.0	1.000	-0.14	0.220	0.242
	FR1 n77 (27O)	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	ECI 2	661334	3920.01	1		24.69	25.00	1.074	100.0	1.000	0.10	0.288	0.309
	FR1 n77 (27O)	100M	BPSK	135	69	Left Cheek	0mm	Ant 8	ECI 2	661334	3920.01	1		24.59	25.00	1.099	100.0	1.000	0.17	0.273	0.300
	FR1 n77 (27O)	100M	BPSK	1	1	Left Tilted	0mm	Ant 8	ECI 2	661334	3920.01	1		24.69	25.00	1.074	100.0	1.000	0.19	0.272	0.292
	FR1 n77 (27O)	100M	BPSK	135	69	Left Tilted	0mm	Ant 8	ECI 2	661334	3920.01	1		24.59	25.00	1.099	100.0	1.000	0.12	0.248	0.273
	FR1 n77 (27O)_HPUE	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	ECI 2	661334	3920.01	1		25.10	26.00	1.230	50.0	1.000	-0.13	0.165	0.203



Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WLAN																	
30	Bluetooth	1Mbps	Right Cheek	0mm	Ant 6	Standalone	39	2441	1	10.60	12.00	1.380	76.8	1.085	-0.07	0.044	0.066
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 6	Standalone	39	2441	1	10.60	12.00	1.380	76.8	1.085	0.13	0.046	0.069
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Standalone	39	2441	1	10.60	12.00	1.380	76.8	1.085	0.02	0.125	0.187
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 6	Standalone	39	2441	1	10.60	12.00	1.380	76.8	1.085	0.09	0.101	0.151
31	2.4GHz WLAN	802.11b 1Mbps	Right Cheek	0mm	Ant 6	Standalone	11	2462	1	18.09	19.00	1.233	99.5	1.005	0.09	0.271	0.336
	2.4GHz WLAN	802.11b 1Mbps	Right Tilted	0mm	Ant 6	Standalone	11	2462	1	18.09	19.00	1.233	99.5	1.005	0.14	0.283	0.351
	2.4GHz WLAN	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	11	2462	1	18.09	19.00	1.233	99.5	1.005	-0.10	0.712	0.882
	2.4GHz WLAN	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	1	2412	1	18.07	19.00	1.239	99.5	1.005	-0.11	0.775	0.965
	2.4GHz WLAN	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	6	2437	1	17.82	19.00	1.312	99.5	1.005	0.00	0.920	1.213
	2.4GHz WLAN	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Standalone	11	2462	1	18.09	19.00	1.233	99.5	1.005	0.11	0.624	0.773
	2.4GHz WLAN	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Standalone	6	2437	1	17.73	19.00	1.340	93.9	1.065	0.06	0.755	1.077
	2.4GHz WLAN	802.11b 1Mbps	Right Cheek	0mm	Ant 6	Simultaneous	11	2462	1	12.06	13.00	1.242	99.5	1.005	0.00	0.097	0.121
	2.4GHz WLAN	802.11b 1Mbps	Right Tilted	0mm	Ant 6	Simultaneous	11	2462	1	12.06	13.00	1.242	99.5	1.005	-0.17	0.101	0.126
	2.4GHz WLAN	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Simultaneous	11	2462	1	12.06	13.00	1.242	99.5	1.005	0.03	0.255	0.318
	2.4GHz WLAN	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Simultaneous	11	2462	1	12.06	13.00	1.242	99.5	1.005	0.01	0.223	0.278
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Standalone	58	5290	1	13.03	13.50	1.114	88.0	1.136	-0.18	0.432	0.547
32	5.3GHz WLAN	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Standalone	58	5290	1	13.03	13.50	1.114	88.0	1.136	-0.08	0.511	0.647
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Standalone	58	5290	1	13.03	13.50	1.114	88.0	1.136	-0.11	0.864	1.093
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	58	5290	1	13.03	13.50	1.114	88.0	1.136	0.01	0.876	1.109
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Simultaneous	58	5290	1	8.62	9.50	1.225	88.0	1.136	0.14	0.114	0.159
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Simultaneous	58	5290	1	8.62	9.50	1.225	88.0	1.136	-0.16	0.135	0.188
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Simultaneous	58	5290	1	8.62	9.50	1.225	88.0	1.136	-0.16	0.228	0.317
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Simultaneous	58	5290	1	8.62	9.50	1.225	88.0	1.136	0.06	0.231	0.321
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Standalone	122	5610	1	14.56	15.50	1.242	88.0	1.136	-0.18	0.477	0.673
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Standalone	122	5610	1	14.56	15.50	1.242	88.0	1.136	0.00	0.598	0.844
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Standalone	138	5690	1	14.51	15.50	1.256	88.0	1.136	0.10	0.459	0.655
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Standalone	106	5530	1	14.32	15.50	1.312	88.0	1.136	-0.07	0.360	0.537
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Standalone	122	5610	1	14.56	15.50	1.242	88.0	1.136	-0.02	0.794	1.120
33	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Standalone	138	5690	1	14.51	15.50	1.256	88.0	1.136	0.15	0.598	0.853
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Standalone	106	5530	1	14.32	15.50	1.312	88.0	1.136	-0.05	0.499	0.744
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	122	5610	1	14.56	15.50	1.242	88.0	1.136	-0.03	0.809	1.141
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	138	5690	1	14.51	15.50	1.256	88.0	1.136	0.06	0.683	0.975
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	106	5530	1	14.32	15.50	1.312	88.0	1.136	-0.04	0.507	0.756
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	122	5610	2	14.56	15.50	1.242	88.0	1.136	0.03	0.679	0.958
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Simultaneous	122	5610	1	10.00	11.00	1.259	88.0	1.136	0.04	0.143	0.205
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Simultaneous	122	5610	1	10.00	11.00	1.259	88.0	1.136	-0.07	0.179	0.256
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Simultaneous	122	5610	1	10.00	11.00	1.259	88.0	1.136	-0.13	0.238	0.340
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Simultaneous	122	5610	1	10.00	11.00	1.259	88.0	1.136	0.06	0.242	0.346
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Standalone	155	5775	1	14.02	14.50	1.117	88.0	1.136	0.07	0.510	0.647
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Standalone	155	5775	1	14.02	14.50	1.117	88.0	1.136	0.10	0.623	0.791
34	5.8GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Standalone	155	5775	1	14.02	14.50	1.117	88.0	1.136	0.15	0.863	1.095
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Standalone	155	5775	1	14.02	14.50	1.117	88.0	1.136	0.04	0.867	1.100
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Simultaneous	155	5775	1	9.74	10.50	1.191	88.0	1.136	-0.03	0.132	0.179
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Simultaneous	155	5775	1	9.74	10.50	1.191	88.0	1.136	0.18	0.161	0.218
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Simultaneous	155	5775	1	9.74	10.50	1.191	88.0	1.136	0.14	0.223	0.302
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Simultaneous	155	5775	1	9.74	10.50	1.191	88.0	1.136	0.06	0.224	0.303

15.2 Hotspot SAR

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
35	GSM850	GPRS 4 Tx slots	Front	5mm	Ant 0	ECI 7	189	836.4	1	25.48	26.40	1.236	-	-	0.15	0.616	0.761
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI 7	189	836.4	1	25.48	26.40	1.236	-	-	0.00	1.040	1.285
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI 7	128	824.2	1	25.41	26.40	1.256	-	-	0.12	0.999	1.255
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI 7	251	848.8	1	25.27	26.40	1.297	-	-	0.15	0.872	1.131
	GSM850	GPRS 4 Tx slots	Left Side	5mm	Ant 0	ECI 7	189	836.4	1	25.48	26.40	1.236	-	-	-0.04	0.174	0.215
	GSM850	GPRS 4 Tx slots	Right Side	5mm	Ant 0	ECI 7	189	836.4	1	25.48	26.40	1.236	-	-	-0.10	0.396	0.489
	GSM850	GPRS 4 Tx slots	Top Side	5mm	Ant 0	ECI 7	189	836.4	1	25.48	26.40	1.236	-	-	0.14	0.050	0.062
	GSM850	GPRS 4 Tx slots	Bottom Side	5mm	Ant 0	ECI 7	189	836.4	1	25.48	26.40	1.236	-	-	0.02	0.813	1.005
	GSM850	GPRS 4 Tx slots	Bottom Side	5mm	Ant 0	ECI 7	128	824.2	1	25.41	26.40	1.256	-	-	0.13	0.598	0.751
	GSM850	GPRS 4 Tx slots	Bottom Side	5mm	Ant 0	ECI 7	251	848.8	1	25.27	26.40	1.297	-	-	-0.13	0.633	0.821
	GSM1900	GPRS 4 Tx slots	Front	5mm	Ant 0	ECI 7	661	1880	1	22.68	23.80	1.294	-	-	-0.05	0.482	0.624
	GSM1900	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI 7	661	1880	1	22.68	23.80	1.294	-	-	-0.15	0.490	0.634
	GSM1900	GPRS 4 Tx slots	Left Side	5mm	Ant 0	ECI 7	661	1880	1	22.68	23.80	1.294	-	-	0.06	0.087	0.113
	GSM1900	GPRS 4 Tx slots	Right Side	5mm	Ant 0	ECI 7	661	1880	1	22.68	23.80	1.294	-	-	-0.12	0.083	0.107
	GSM1900	GPRS 4 Tx slots	Top Side	5mm	Ant 0	ECI 7	661	1880	1	22.68	23.80	1.294	-	-	0.16	0.001	0.001
	GSM1900	GPRS 4 Tx slots	Bottom Side	5mm	Ant 0	ECI 7	661	1880	1	22.68	23.80	1.294	-	-	0.01	0.843	1.091
	GSM1900	GPRS 4 Tx slots	Bottom Side	5mm	Ant 0	ECI 7	512	1850.2	1	22.52	23.80	1.343	-	-	-0.12	0.869	1.167
	GSM1900	GPRS 4 Tx slots	Bottom Side	5mm	Ant 0	ECI 7	810	1909.8	1	22.49	23.80	1.352	-	-	0.04	0.944	1.276
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 7	9400	1880	1	19.15	20.30	1.303	-	-	-0.14	0.641	0.835
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 7	9262	1852.4	1	19.13	20.30	1.309	-	-	-0.05	0.622	0.814
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 7	9538	1907.6	1	19.11	20.30	1.315	-	-	0.11	0.583	0.767
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	9400	1880	1	19.15	20.30	1.303	-	-	0.07	0.570	0.743
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	Ant 0	ECI 7	9400	1880	1	19.15	20.30	1.303	-	-	0.03	0.108	0.141
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	Ant 0	ECI 7	9400	1880	1	19.15	20.30	1.303	-	-	0.16	0.114	0.149
	WCDMA II	RMC 12.2Kbps	Top Side	5mm	Ant 0	ECI 7	9400	1880	1	19.15	20.30	1.303	-	-	0.02	< 0.001	< 0.001
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	9400	1880	1	19.15	20.30	1.303	-	-	0.07	0.923	1.203
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	9538	1907.6	1	19.11	20.30	1.315	-	-	0.18	0.796	1.047
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	9262	1852.4	1	19.13	20.30	1.309	-	-	0.01	0.968	1.267
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 7	1413	1732.6	1	18.72	20.20	1.406	-	-	-0.16	0.544	0.765
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	1413	1732.6	1	18.72	20.20	1.406	-	-	-0.18	0.624	0.877
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	1312	1712.4	1	18.68	20.20	1.419	-	-	0.16	0.561	0.796
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	1513	1752.6	1	18.66	20.20	1.426	-	-	0.06	0.647	0.923
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	Ant 0	ECI 7	1413	1732.6	1	18.72	20.20	1.406	-	-	-0.19	0.074	0.104
	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	Ant 0	ECI 7	1413	1732.6	1	18.72	20.20	1.406	-	-	0.00	0.162	0.228
	WCDMA IV	RMC 12.2Kbps	Top Side	5mm	Ant 0	ECI 7	1413	1732.6	1	18.72	20.20	1.406	-	-	-0.03	0.013	0.018
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	1413	1732.6	1	18.72	20.20	1.406	-	-	-0.13	0.880	1.237
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	1312	1712.4	1	18.68	20.20	1.419	-	-	0.03	0.821	1.165
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	1513	1752.6	1	18.66	20.20	1.426	-	-	-0.01	0.906	1.292
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	1513	1752.6	2	18.66	20.20	1.426	-	-	-0.01	0.782	1.115
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 7	4182	836.4	1	23.34	24.00	1.164	-	-	0.08	0.554	0.645
39	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	4182	836.4	1	23.34	24.00	1.164	-	-	0.13	1.040	1.211
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	4132	826.4	1	23.33	24.00	1.167	-	-	-0.01	1.050	1.225
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	4233	846.6	1	23.20	24.00	1.202	-	-	-0.06	0.919	1.105
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	Ant 0	ECI 7	4182	836.4	1	23.34	24.00	1.164	-	-	0.13	0.161	0.187
	WCDMA V	RMC 12.2Kbps	Right Side	5mm	Ant 0	ECI 7	4182	836.4	1	23.34	24.00	1.164	-	-	-0.15	0.377	0.439
	WCDMA V	RMC 12.2Kbps	Top Side	5mm	Ant 0	ECI 7	4182	836.4	1	23.34	24.00	1.164	-	-	0.17	0.001	0.001
	WCDMA V	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	4182	836.4	1	23.34	24.00	1.164	-	-	0.06	0.792	0.922
	WCDMA V	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	4132	826.4	1	23.33	24.00	1.167	-	-	0.01	0.756	0.882
	WCDMA V	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	4233	846.6	1	23.20	24.00	1.202	-	-	0.08	0.728	0.875



FCC SAR Test Report

Report No. : FA672115

Plot No	Band	BW	Modulation	RB Size	RB Offset	PA	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0		Front	5mm	Ant 1	ECI 7	21100	2535	1	19.74	20.60	1.219	-	-	0.00	0.906	1.104
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	20850	2510	1	19.70	20.60	1.230	-	-	0.16	0.901	1.108
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	21350	2560	1	19.68	20.60	1.236	-	-	0.10	0.882	1.090
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	21100	2535	1	19.68	20.60	1.236	-	-	0.08	0.703	0.869
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	20850	2510	1	19.62	20.60	1.253	-	-	-0.13	0.728	0.912
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	21350	2560	1	19.65	20.60	1.245	-	-	0.08	0.683	0.850
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 1	ECI 7	21100	2535	1	19.62	20.60	1.253	-	-	0.06	0.703	0.881
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	21100	2535	1	19.74	20.60	1.219	-	-	-0.02	1.040	1.268
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	20850	2510	1	19.70	20.60	1.230	-	-	-0.15	1.000	1.230
40	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	21350	2560	1	19.68	20.60	1.236	-	-	-0.04	1.040	1.285
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	21100	2535	1	19.68	20.60	1.236	-	-	0.05	0.802	0.991
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	20850	2510	1	19.62	20.60	1.253	-	-	-0.03	0.832	1.042
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	21350	2560	1	19.65	20.60	1.245	-	-	-0.10	0.778	0.969
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	ECI 7	21100	2535	1	19.62	20.60	1.253	-	-	0.00	0.797	0.999
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	21100	2535	1	19.74	20.60	1.219	-	-	-0.15	0.488	0.595
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI 7	21100	2535	1	19.68	20.60	1.236	-	-	0.06	0.311	0.384
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	21100	2535	1	19.74	20.60	1.219	-	-	-0.04	0.013	0.016
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI 7	21100	2535	1	19.68	20.60	1.236	-	-	-0.15	< 0.001	< 0.001
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI 7	21100	2535	1	19.74	20.60	1.219	-	-	0.15	0.042	0.051
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	ECI 7	21100	2535	1	19.68	20.60	1.236	-	-	0.08	0.025	0.031
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	21100	2535	1	19.74	20.60	1.219	-	-	-0.03	0.678	0.826
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	20850	2510	1	19.70	20.60	1.230	-	-	0.16	0.688	0.846
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	21350	2560	1	19.68	20.60	1.236	-	-	0.09	0.669	0.827
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	21100	2535	1	19.68	20.60	1.236	-	-	-0.10	0.565	0.698
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	ECI 7	21100	2535	1	19.62	20.60	1.253	-	-	-0.19	0.550	0.689
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	23095	707.5	1	21.52	21.90	1.091	-	-	-0.03	0.233	0.254
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 4	ECI 7	23095	707.5	1	21.48	21.90	1.102	-	-	-0.04	0.174	0.192
41	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	23095	707.5	1	21.52	21.90	1.091	-	-	-0.02	0.555	0.606
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 4	ECI 7	23095	707.5	1	21.48	21.90	1.102	-	-	0.05	0.375	0.413
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	23095	707.5	1	21.52	21.90	1.091	-	-	-0.07	0.119	0.130
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 4	ECI 7	23095	707.5	1	21.48	21.90	1.102	-	-	0.09	0.095	0.105
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	23095	707.5	1	21.52	21.90	1.091	-	-	-0.16	0.070	0.076
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 4	ECI 7	23095	707.5	1	21.48	21.90	1.102	-	-	0.04	0.043	0.047
	LTE Band 12	10M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	23095	707.5	1	21.52	21.90	1.091	-	-	-0.16	0.392	0.428
	LTE Band 12	10M	QPSK	25	0	-	Top Side	5mm	Ant 4	ECI 7	23095	707.5	1	21.48	21.90	1.102	-	-	-0.12	0.265	0.292
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 4	ECI 7	23095	707.5	1	21.52	21.90	1.091	-	-	0.14	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 4	ECI 7	23095	707.5	1	21.48	21.90	1.102	-	-	-0.09	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	23095	707.5	1	22.99	24.00	1.262	-	-	-0.09	0.288	0.363
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 7	23095	707.5	1	21.89	23.00	1.291	-	-	0.08	0.232	0.300
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	23095	707.5	1	22.99	24.00	1.262	-	-	-0.01	0.429	0.541
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 7	23095	707.5	1	21.89	23.00	1.291	-	-	-0.18	0.327	0.422
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	23095	707.5	1	22.99	24.00	1.262	-	-	0.06	0.054	0.068
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI 7	23095	707.5	1	21.89	23.00	1.291	-	-	0.00	0.019	0.025
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	23095	707.5	1	22.99	24.00	1.262	-	-	0.16	0.224	0.283
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	ECI 7	23095	707.5	1	21.89	23.00	1.291	-	-	0.13	0.117	0.151
	LTE Band 12	10M	QPSK	1	0	-	Top Side	5mm	Ant 0	ECI 7	23095	707.5	1	22.99	24.00	1.262	-	-	0.09	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Top Side	5mm	Ant 0	ECI 7	23095	707.5	1	21.89	23.00	1.291	-	-	0.12	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	23095	707.5	1	22.99	24.00	1.262	-	-	0.16	0.171	0.216
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI 7	23095	707.5	1	21.89	23.00	1.291	-	-	0.17	0.174	0.225
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	23230	782	1	21.11	22.50	1.377	-	-	0.00	0.214	0.295
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 4	ECI 7	23230	782	1	21.08	22.50	1.387	-	-	0.06	0.169	0.234
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	23230	782	1	21.11	22.50	1.377	-	-	-0.01	0.442	0.609
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 4	ECI 7	23230	782	1	21.08	22.50	1.387	-	-	0.16	0.324	0.449



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	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	23230	782	1	21.11	22.50	1.377	-	-	-0.17	0.100	0.138
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 4	ECI 7	23230	782	1	21.08	22.50	1.387	-	-	-0.11	0.069	0.096
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	23230	782	1	21.11	22.50	1.377	-	-	-0.04	0.080	0.110
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 4	ECI 7	23230	782	1	21.08	22.50	1.387	-	-	0.09	0.058	0.080
	LTE Band 13	10M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	23230	782	1	21.11	22.50	1.377	-	-	-0.07	0.264	0.364
	LTE Band 13	10M	QPSK	25	0	-	Top Side	5mm	Ant 4	ECI 7	23230	782	1	21.08	22.50	1.387	-	-	-0.01	0.197	0.273
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 4	ECI 7	23230	782	1	21.11	22.50	1.377	-	-	0.06	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 4	ECI 7	23230	782	1	21.08	22.50	1.387	-	-	0.08	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	23230	782	1	22.95	24.00	1.274	-	-	0.05	0.612	0.780
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 7	23230	782	1	21.90	23.00	1.288	-	-	-0.05	0.489	0.630
42	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	23230	782	1	22.95	24.00	1.274	-	-	-0.02	0.999	1.273
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 7	23230	782	1	21.90	23.00	1.288	-	-	0.11	0.804	1.036
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	23230	782	1	21.90	23.00	1.288	-	-	-0.16	0.811	1.045
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	23230	782	1	22.95	24.00	1.274	-	-	0.11	0.058	0.074
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI 7	23230	782	1	21.90	23.00	1.288	-	-	0.04	0.059	0.076
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	23230	782	1	22.95	24.00	1.274	-	-	-0.13	0.269	0.343
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	ECI 7	23230	782	1	21.90	23.00	1.288	-	-	0.15	0.219	0.282
	LTE Band 13	10M	QPSK	1	0	-	Top Side	5mm	Ant 0	ECI 7	23230	782	1	22.95	24.00	1.274	-	-	0.10	0.001	0.001
	LTE Band 13	10M	QPSK	25	0	-	Top Side	5mm	Ant 0	ECI 7	23230	782	1	21.90	23.00	1.288	-	-	-0.07	0.001	0.001
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	23230	782	1	22.95	24.00	1.274	-	-	0.11	0.520	0.662
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI 7	23230	782	1	21.90	23.00	1.288	-	-	0.02	0.352	0.453
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	23330	793	1	21.58	22.50	1.236	-	-	0.18	0.192	0.237
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 4	ECI 7	23330	793	1	21.55	22.50	1.245	-	-	0.15	0.159	0.198
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	23330	793	1	21.58	22.50	1.236	-	-	-0.04	0.484	0.598
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 4	ECI 7	23330	793	1	21.55	22.50	1.245	-	-	0.01	0.396	0.493
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	23330	793	1	21.58	22.50	1.236	-	-	0.13	0.071	0.088
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 4	ECI 7	23330	793	1	21.55	22.50	1.245	-	-	-0.09	0.056	0.070
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	23330	793	1	21.58	22.50	1.236	-	-	-0.05	0.087	0.108
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 4	ECI 7	23330	793	1	21.55	22.50	1.245	-	-	-0.02	0.070	0.087
	LTE Band 14	10M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	23330	793	1	21.58	22.50	1.236	-	-	-0.19	0.409	0.506
	LTE Band 14	10M	QPSK	25	0	-	Top Side	5mm	Ant 4	ECI 7	23330	793	1	21.55	22.50	1.245	-	-	-0.16	0.366	0.456
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 4	ECI 7	23330	793	1	21.58	22.50	1.236	-	-	-0.11	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 4	ECI 7	23330	793	1	21.55	22.50	1.245	-	-	-0.14	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	23330	793	1	23.01	24.00	1.256	-	-	0.16	0.651	0.818
	LTE Band 14	10M	QPSK	50	0	-	Front	5mm	Ant 0	ECI 7	23330	793	1	21.96	23.00	1.271	-	-	-0.11	0.508	0.646
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 7	23330	793	1	21.93	23.00	1.279	-	-	0.08	0.495	0.633
43	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	23330	793	1	23.01	24.00	1.256	-	-	-0.01	0.998	1.253
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 7	23330	793	1	21.93	23.00	1.279	-	-	0.09	0.781	0.999
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	23330	793	1	21.96	23.00	1.271	-	-	-0.07	0.797	1.013
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	23330	793	1	23.01	24.00	1.256	-	-	-0.10	0.062	0.078
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI 7	23330	793	1	21.93	23.00	1.279	-	-	-0.08	0.042	0.054
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	23330	793	1	23.01	24.00	1.256	-	-	-0.16	0.259	0.325
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	ECI 7	23330	793	1	21.93	23.00	1.279	-	-	-0.11	0.192	0.246
	LTE Band 14	10M	QPSK	1	0	-	Top Side	5mm	Ant 0	ECI 7	23330	793	1	23.01	24.00	1.256	-	-	0.11	0.001	0.001
	LTE Band 14	10M	QPSK	25	0	-	Top Side	5mm	Ant 0	ECI 7	23330	793	1	21.93	23.00	1.279	-	-	0.06	0.001	0.001
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	23330	793	1	23.01	24.00	1.256	-	-	0.15	0.607	0.762
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI 7	23330	793	1	21.93	23.00	1.279	-	-	-0.11	0.500	0.640
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	5mm	Ant 4	ECI 7	26340	1880	1	16.10	17.50	1.380	-	-	0.01	0.166	0.229
	LTE Band 25	20M	QPSK	50	0	Main PA	Front	5mm	Ant 4	ECI 7	26340	1880	1	16.05	17.50	1.396	-	-	-0.02	0.139	0.194
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	5mm	Ant 4	ECI 7	26340	1880	1	16.10	17.50	1.380	-	-	0.02	0.221	0.305
	LTE Band 25	20M	QPSK	50	0	Main PA	Back	5mm	Ant 4	ECI 7	26340	1880	1	16.05	17.50	1.396	-	-	-0.17	0.172	0.240
	LTE Band 25	20M	QPSK	1	0	Main PA	Left Side	5mm	Ant 4	ECI 7	26340	1880	1	16.10	17.50	1.380	-	-	-0.11	0.080	0.110
	LTE Band 25	20M	QPSK	50	0	Main PA	Left Side	5mm	Ant 4	ECI 7	26340	1880	1	16.05	17.50	1.396	-	-	0.15	0.069	0.096
	LTE Band 25	20M	QPSK	1	0	Main PA	Right Side	5mm	Ant 4	ECI 7	26340	1880	1	16.10	17.50	1.380	-	-	0.02	0.016	0.022
	LTE Band 25	20M	QPSK	50	0	Main PA	Right Side	5mm	Ant 4	ECI 7	26340	1880	1	16.05	17.50	1.396	-	-	0.11	0.014	0.020
	LTE Band 25	20M	QPSK	1	0	Main PA	Top Side	5mm	Ant 4	ECI 7	26340	1880	1	16.10	17.50	1.380	-	-	-0.02	0.394	0.544



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	LTE Band 25	20M	QPSK	50	0	Main PA	Top Side	5mm	Ant 4	ECI 7	26340	1880	1	16.05	17.50	1.396	-	-	-0.06	0.300	0.419
	LTE Band 25	20M	QPSK	1	0	Main PA	Bottom Side	5mm	Ant 4	ECI 7	26340	1880	1	16.10	17.50	1.380	-	-	-0.16	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Main PA	Bottom Side	5mm	Ant 4	ECI 7	26340	1880	1	16.05	17.50	1.396	-	-	-0.12	0.001	0.001
	LTE Band 2	20M	QPSK	1	0	PA (Reference Designator)	Top Side	5mm	Ant 4	ECI 7	18900	1880	1	17.22	17.50	1.067	-	-	0.06	0.501	0.535
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	5mm	Ant 0	ECI 7	26340	1880	1	18.54	20.00	1.400	-	-	0.09	0.455	0.637
	LTE Band 25	20M	QPSK	50	0	Main PA	Front	5mm	Ant 0	ECI 7	26340	1880	1	18.52	20.00	1.406	-	-	0.01	0.372	0.523
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	5mm	Ant 0	ECI 7	26340	1880	1	18.54	20.00	1.400	-	-	-0.17	0.419	0.587
	LTE Band 25	20M	QPSK	50	0	Main PA	Back	5mm	Ant 0	ECI 7	26340	1880	1	18.52	20.00	1.406	-	-	-0.15	0.365	0.513
	LTE Band 25	20M	QPSK	1	0	Main PA	Left Side	5mm	Ant 0	ECI 7	26340	1880	1	18.54	20.00	1.400	-	-	-0.16	0.064	0.090
	LTE Band 25	20M	QPSK	50	0	Main PA	Left Side	5mm	Ant 0	ECI 7	26340	1880	1	18.52	20.00	1.406	-	-	-0.04	0.023	0.032
	LTE Band 25	20M	QPSK	1	0	Main PA	Right Side	5mm	Ant 0	ECI 7	26340	1880	1	18.54	20.00	1.400	-	-	-0.16	0.049	0.069
	LTE Band 25	20M	QPSK	50	0	Main PA	Right Side	5mm	Ant 0	ECI 7	26340	1880	1	18.52	20.00	1.406	-	-	-0.05	0.069	0.097
	LTE Band 25	20M	QPSK	1	0	Main PA	Top Side	5mm	Ant 0	ECI 7	26340	1880	1	18.54	20.00	1.400	-	-	-0.08	0.001	0.001
	LTE Band 25	20M	QPSK	50	0	Main PA	Top Side	5mm	Ant 0	ECI 7	26340	1880	1	18.52	20.00	1.406	-	-	0.16	0.001	0.001
44	LTE Band 25	20M	QPSK	1	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	26340	1880	1	18.54	20.00	1.400	-	-	-0.03	0.860	1.204
	LTE Band 25	20M	QPSK	1	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	26140	1860	1	18.46	20.00	1.426	-	-	0.12	0.763	1.088
	LTE Band 25	20M	QPSK	1	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	26590	1905	1	18.51	20.00	1.409	-	-	0.06	0.697	0.982
	LTE Band 25	20M	QPSK	50	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	26340	1880	1	18.52	20.00	1.406	-	-	0.11	0.712	1.001
	LTE Band 25	20M	QPSK	50	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	26140	1860	1	18.44	20.00	1.432	-	-	0.06	0.625	0.895
	LTE Band 25	20M	QPSK	50	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	26590	1905	1	18.49	20.00	1.416	-	-	0.04	0.643	0.910
	LTE Band 25	20M	QPSK	100	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	26340	1880	1	18.50	20.00	1.413	-	-	0.00	0.721	1.019
	LTE Band 2	20M	QPSK	1	0	PA (Reference Designator)	Bottom Side	5mm	Ant 0	ECI 7	18900	1880	1	18.72	20.00	1.343	-	-	0.06	0.812	1.091
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	26865	831.5	1	19.97	20.60	1.156	-	-	0.04	0.236	0.273
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 4	ECI 7	26865	831.5	1	19.95	20.60	1.161	-	-	-0.05	0.187	0.217
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	26865	831.5	1	19.97	20.60	1.156	-	-	-0.01	0.524	0.606
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 4	ECI 7	26865	831.5	1	19.95	20.60	1.161	-	-	-0.13	0.388	0.450
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	26865	831.5	1	19.97	20.60	1.156	-	-	-0.03	0.084	0.097
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 4	ECI 7	26865	831.5	1	19.95	20.60	1.161	-	-	0.13	0.065	0.075
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	26865	831.5	1	19.97	20.60	1.156	-	-	0.15	0.061	0.071
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 4	ECI 7	26865	831.5	1	19.95	20.60	1.161	-	-	0.04	0.048	0.056
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	26865	831.5	1	19.97	20.60	1.156	-	-	-0.15	0.375	0.434
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant 4	ECI 7	26865	831.5	1	19.95	20.60	1.161	-	-	-0.10	0.237	0.275
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 4	ECI 7	26865	831.5	1	19.97	20.60	1.156	-	-	0.02	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 4	ECI 7	26865	831.5	1	19.95	20.60	1.161	-	-	0.08	0.001	0.001
	LTE Band 5B	10M+10M	QPSK	1	49	-	Back	5mm	Ant 4	ECI 7	20476+20575	831.6+841.5	1	19.89	20.60	1.178	-	-	0.05	0.488	0.575
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	26865	831.5	1	22.96	24.00	1.271	-	-	0.17	0.532	0.676
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	ECI 7	26865	831.5	1	21.88	23.00	1.294	-	-	0.08	0.401	0.519
45	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	1	22.96	24.00	1.271	-	-	0.00	0.996	1.266
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	1	21.88	23.00	1.294	-	-	0.15	0.744	0.963
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	1	21.89	23.00	1.291	-	-	-0.03	0.730	0.942
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	26865	831.5	1	22.96	24.00	1.271	-	-	0.12	0.042	0.053
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	ECI 7	26865	831.5	1	21.88	23.00	1.294	-	-	-0.10	0.014	0.018
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	26865	831.5	1	22.96	24.00	1.271	-	-	0.09	0.268	0.341
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 0	ECI 7	26865	831.5	1	21.88	23.00	1.294	-	-	0.04	0.216	0.280
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 0	ECI 7	26865	831.5	1	22.96	24.00	1.271	-	-	0.10	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant 0	ECI 7	26865	831.5	1	21.88	23.00	1.294	-	-	-0.05	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	26865	831.5	1	22.96	24.00	1.271	-	-	-0.07	0.600	0.763
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 0	ECI 7	26865	831.5	1	21.88	23.00	1.294	-	-	0.01	0.587	0.760
	LTE Band 5B	10M+10M	QPSK	1	49	-	Back	5mm	Ant 0	ECI 7	20476+20575	831.6+841.5	1	22.60	24.00	1.380	-	-	0.06	0.853	1.177
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	27710	2310	1	21.57	22.50	1.239	-	-	-0.15	0.749	0.928
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 1	ECI 7	27710	2310	1	21.50	22.50	1.259	-	-	0.03	0.600	0.755
	LTE Band 30	10M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	27710	2310	1	21.52	22.50	1.253	-	-	-0.02	0.605	0.758
46	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	27710	2310	1	21.57	22.50	1.239	-	-	-0.10	1.040	1.289
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 1	ECI 7	27710	2310	1	21.50	22.50	1.259	-	-	-0.18	0.742	0.934
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	27710	2310	1	21.52	22.50	1.253	-	-	-0.10	0.728	0.912



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	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	27710	2310	1	21.57	22.50	1.239	-	-	-0.10	0.569	0.705
	LTE Band 30	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	ECI 7	27710	2310	1	21.50	22.50	1.259	-	-	0.13	0.419	0.528
	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	27710	2310	1	21.57	22.50	1.239	-	-	0.15	0.046	0.057
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	ECI 7	27710	2310	1	21.50	22.50	1.259	-	-	-0.05	0.019	0.024
	LTE Band 30	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI 7	27710	2310	1	21.57	22.50	1.239	-	-	0.09	0.028	0.035
	LTE Band 30	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	ECI 7	27710	2310	1	21.50	22.50	1.259	-	-	0.12	0.017	0.021
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	27710	2310	1	21.57	22.50	1.239	-	-	-0.19	0.586	0.726
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	ECI 7	27710	2310	1	21.50	22.50	1.259	-	-	0.04	0.376	0.473
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	5mm	Ant 4	ECI 7	132322	1745	1	15.99	17.70	1.483	-	-	-0.02	0.153	0.227
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	5mm	Ant 4	ECI 7	132322	1745	1	15.97	17.70	1.489	-	-	0.11	0.133	0.198
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	5mm	Ant 4	ECI 7	132322	1745	1	15.99	17.70	1.483	-	-	-0.17	0.232	0.344
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	5mm	Ant 4	ECI 7	132322	1745	1	15.97	17.70	1.489	-	-	-0.12	0.181	0.270
	LTE Band 66	20M	QPSK	1	0	Main PA	Left Side	5mm	Ant 4	ECI 7	132322	1745	1	15.99	17.70	1.483	-	-	-0.02	0.086	0.128
	LTE Band 66	20M	QPSK	50	0	Main PA	Left Side	5mm	Ant 4	ECI 7	132322	1745	1	15.97	17.70	1.489	-	-	-0.02	0.066	0.098
	LTE Band 66	20M	QPSK	1	0	Main PA	Right Side	5mm	Ant 4	ECI 7	132322	1745	1	15.99	17.70	1.483	-	-	0.11	0.025	0.037
	LTE Band 66	20M	QPSK	50	0	Main PA	Right Side	5mm	Ant 4	ECI 7	132322	1745	1	15.97	17.70	1.489	-	-	-0.05	0.021	0.031
	LTE Band 66	20M	QPSK	1	0	Main PA	Top Side	5mm	Ant 4	ECI 7	132322	1745	1	15.99	17.70	1.483	-	-	-0.13	0.357	0.529
	LTE Band 66	20M	QPSK	50	0	Main PA	Top Side	5mm	Ant 4	ECI 7	132322	1745	1	15.97	17.70	1.489	-	-	-0.05	0.281	0.418
	LTE Band 66	20M	QPSK	1	0	Main PA	Bottom Side	5mm	Ant 4	ECI 7	132322	1745	1	15.99	17.70	1.483	-	-	-0.17	0.011	0.016
	LTE Band 66	20M	QPSK	50	0	Main PA	Bottom Side	5mm	Ant 4	ECI 7	132322	1745	1	15.97	17.70	1.489	-	-	0.04	0.010	0.015
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Top Side	5mm	Ant 4	ECI 7	132572	1770	1	17.32	17.70	1.091	-	-	0.16	0.458	0.500
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	5mm	Ant 0	ECI 7	132322	1745	1	18.18	19.50	1.355	-	-	-0.03	0.451	0.611
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	5mm	Ant 0	ECI 7	132322	1745	1	18.15	19.50	1.365	-	-	-0.05	0.346	0.472
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	5mm	Ant 0	ECI 7	132322	1745	1	18.18	19.50	1.355	-	-	0.09	0.490	0.664
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	5mm	Ant 0	ECI 7	132322	1745	1	18.15	19.50	1.365	-	-	0.17	0.397	0.542
	LTE Band 66	20M	QPSK	1	0	Main PA	Left Side	5mm	Ant 0	ECI 7	132322	1745	1	18.18	19.50	1.355	-	-	0.12	0.022	0.030
	LTE Band 66	20M	QPSK	50	0	Main PA	Left Side	5mm	Ant 0	ECI 7	132322	1745	1	18.15	19.50	1.365	-	-	0.17	0.017	0.023
	LTE Band 66	20M	QPSK	1	0	Main PA	Right Side	5mm	Ant 0	ECI 7	132322	1745	1	18.18	19.50	1.355	-	-	-0.06	0.117	0.159
	LTE Band 66	20M	QPSK	50	0	Main PA	Right Side	5mm	Ant 0	ECI 7	132322	1745	1	18.15	19.50	1.365	-	-	0.10	0.070	0.096
	LTE Band 66	20M	QPSK	1	0	Main PA	Top Side	5mm	Ant 0	ECI 7	132322	1745	1	18.18	19.50	1.355	-	-	-0.01	0.001	0.001
	LTE Band 66	20M	QPSK	50	0	Main PA	Top Side	5mm	Ant 0	ECI 7	132322	1745	1	18.15	19.50	1.365	-	-	0.02	0.001	0.001
47	LTE Band 66	20M	QPSK	1	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	132322	1745	1	18.18	19.50	1.355	-	-	0.00	0.784	1.062
	LTE Band 66	20M	QPSK	1	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	132072	1720	1	18.16	19.50	1.361	-	-	0.03	0.693	0.943
	LTE Band 66	20M	QPSK	1	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	132572	1770	1	18.11	19.50	1.377	-	-	-0.02	0.708	0.975
	LTE Band 66	20M	QPSK	50	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	132322	1745	1	18.15	19.50	1.365	-	-	-0.11	0.603	0.823
	LTE Band 66	20M	QPSK	50	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	132072	1720	1	18.06	19.50	1.393	-	-	-0.09	0.592	0.825
	LTE Band 66	20M	QPSK	50	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	132572	1770	1	18.09	19.50	1.384	-	-	-0.04	0.611	0.846
	LTE Band 66	20M	QPSK	100	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	132322	1745	1	18.11	19.50	1.377	-	-	-0.16	0.585	0.806
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Bottom Side	5mm	Ant 0	ECI 7	132322	1745	1	18.35	19.50	1.303	-	-	-0.18	0.786	1.024
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Bottom Side	5mm	Ant 0	ECI 7	132322	1745	1	19.29	19.50	1.050	-	-	0.06	0.937	0.984
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	133297	680.5	1	22.66	24.00	1.361	-	-	-0.14	0.217	0.295
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 7	133297	680.5	1	21.62	23.00	1.374	-	-	-0.05	0.158	0.217
48	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	133297	680.5	1	22.66	24.00	1.361	-	-	0.00	0.448	0.610
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 7	133297	680.5	1	21.62	23.00	1.374	-	-	-0.06	0.392	0.539
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	133297	680.5	1	22.66	24.00	1.361	-	-	-0.04	0.151	0.206
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	ECI 7	133297	680.5	1	21.62	23.00	1.374	-	-	0.18	0.126	0.173
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	133297	680.5	1	22.66	24.00	1.361	-	-	0.06	0.066	0.090
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	ECI 7	133297	680.5	1	21.62	23.00	1.374	-	-	-0.13	0.043	0.059
	LTE Band 71	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	133297	680.5	1	22.66	24.00	1.361	-	-	0.06	0.336	0.457
	LTE Band 71	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	133297	680.5	1	21.62	23.00	1.374	-	-	0.06	0.196	0.269
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 4	ECI 7	133297	680.5	1	22.66	24.00	1.361	-	-	-0.02	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 4	ECI 7	133297	680.5	1	21.62	23.00	1.374	-	-	-0.09	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	133297	680.5	1	22.95	24.00	1.274	-	-	-0.18	0.246	0.313
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	ECI 7	133297	680.5	1	21.92	23.00	1.282	-	-	-0.15	0.185	0.237
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	133297	680.5	1	22.95	24.00	1.274	-	-	-0.02	0.346	0.441



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	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	133297	680.5	1	21.92	23.00	1.282	-	-	-0.03	0.282	0.362
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	133297	680.5	1	22.95	24.00	1.274	-	-	0.08	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI 7	133297	680.5	1	21.92	23.00	1.282	-	-	0.01	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	133297	680.5	1	22.95	24.00	1.274	-	-	-0.01	0.141	0.180
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	ECI 7	133297	680.5	1	21.92	23.00	1.282	-	-	0.18	0.127	0.163
	LTE Band 71	20M	QPSK	1	0	-	Top Side	5mm	Ant 0	ECI 7	133297	680.5	1	22.95	24.00	1.274	-	-	-0.15	0.001	0.001
	LTE Band 71	20M	QPSK	50	0	-	Top Side	5mm	Ant 0	ECI 7	133297	680.5	1	21.92	23.00	1.282	-	-	0.05	0.001	0.001
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	133297	680.5	1	22.95	24.00	1.274	-	-	0.00	0.132	0.168
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	133297	680.5	1	21.92	23.00	1.282	-	-	0.04	0.134	0.172
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	40620	2593	1	22.65	24.00	1.365	62.9	1.006	0.11	0.542	0.744
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	39750	2506	1	22.42	24.00	1.439	62.9	1.006	0.10	0.516	0.747
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	40185	2549.5	1	22.53	24.00	1.403	62.9	1.006	0.12	0.534	0.754
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	41055	2636.5	1	22.52	24.00	1.406	62.9	1.006	0.17	0.542	0.767
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	41490	2680	1	22.64	24.00	1.368	62.9	1.006	-0.14	0.496	0.683
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	40620	2593	1	21.51	23.00	1.409	62.9	1.006	0.10	0.417	0.591
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	40620	2593	1	22.65	24.00	1.365	62.9	1.006	-0.09	0.667	0.916
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	39750	2506	1	22.42	24.00	1.439	62.9	1.006	-0.06	0.629	0.911
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	40185	2549.5	1	22.53	24.00	1.403	62.9	1.006	0.00	0.694	0.980
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	41055	2636.5	1	22.52	24.00	1.406	62.9	1.006	0.05	0.853	1.207
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	41490	2680	1	22.64	24.00	1.368	62.9	1.006	0.14	0.694	0.955
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	40620	2593	1	21.51	23.00	1.409	62.9	1.006	-0.16	0.586	0.831
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	39750	2506	1	21.38	23.00	1.452	62.9	1.006	-0.10	0.490	0.716
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	40185	2549.5	1	21.40	23.00	1.445	62.9	1.006	-0.01	0.507	0.737
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	41055	2636.5	1	21.45	23.00	1.429	62.9	1.006	0.07	0.535	0.769
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	41490	2680	1	21.46	23.00	1.426	62.9	1.006	-0.03	0.397	0.570
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	ECI 7	40620	2593	1	21.46	23.00	1.426	62.9	1.006	-0.15	0.591	0.848
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	40620	2593	1	22.65	24.00	1.365	62.9	1.006	-0.06	0.316	0.434
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI 7	40620	2593	1	21.51	23.00	1.409	62.9	1.006	0.10	0.250	0.354
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	40620	2593	1	22.65	24.00	1.365	62.9	1.006	0.15	0.081	0.111
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI 7	40620	2593	1	21.51	23.00	1.409	62.9	1.006	-0.10	0.071	0.101
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	ECI 7	40620	2593	1	22.65	24.00	1.365	62.9	1.006	0.03	0.070	0.096
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	ECI 7	40620	2593	1	21.51	23.00	1.409	62.9	1.006	0.16	0.046	0.065
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620	2593	1	22.65	24.00	1.365	62.9	1.006	0.02	0.467	0.641
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	39750	2506	1	22.42	24.00	1.439	62.9	1.006	-0.04	0.397	0.575
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	40185	2549.5	1	22.53	24.00	1.403	62.9	1.006	-0.16	0.395	0.558
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	41055	2636.5	1	22.52	24.00	1.406	62.9	1.006	-0.05	0.420	0.594
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	41490	2680	1	22.64	24.00	1.368	62.9	1.006	0.08	0.455	0.626
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620	2593	1	21.51	23.00	1.409	62.9	1.006	0.14	0.383	0.543
	LTE Band 41C	20M+20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	41490+ 41292	2680+ 2660.2	1	22.60	24.00	1.380	62.9	1.006	0.06	0.644	0.894
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 7	39750+ 39948	2506+ 2525.8	1	22.56	24.00	1.393	62.9	1.006	0.00	0.599	0.839
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 7	40185+ 40383	2549.5+ 2569.3	1	22.47	24.00	1.422	62.9	1.006	0.06	0.618	0.884
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 7	40620+ 40818	2593+ 2612.8	1	22.45	24.00	1.429	62.9	1.006	-0.02	0.633	0.910
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 7	41055+ 41253	2636.5+ 2656.3	1	22.44	24.00	1.432	62.9	1.006	0.10	0.620	0.893
49	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	41055	2636.5	1	24.30	25.60	1.349	42.9	1.009	0.03	0.933	1.270
	LTE Band 41C HPUE	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 7	40620+ 40818	2593+ 2612.8	1	24.35	25.60	1.334	42.9	1.009	0.02	0.835	1.124
	LTE Band 41C HPUE	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 7	39750+ 39948	2506+ 2525.8	1	24.19	25.60	1.384	42.9	1.009	0.02	0.818	1.142
	LTE Band 41C HPUE	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 7	40185+ 40383	2549.5+ 2569.3	1	24.22	25.60	1.374	42.9	1.009	-0.06	0.759	1.052
	LTE Band 41C HPUE	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 7	41055+ 41253	2636.5+ 2656.3	1	24.26	25.60	1.361	42.9	1.009	0.02	0.766	1.052
	LTE Band 41C HPUE	20M+20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	41490+ 41292	2680+ 2660.2	1	24.30	25.60	1.349	42.9	1.009	0.04	0.748	1.018
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	ECI 7	55830	3609	1	18.54	19.70	1.306	62.9	1.006	0.03	0.241	0.317
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	ECI 7	55830	3609	1	18.52	19.70	1.312	62.9	1.006	0.08	0.227	0.300
50	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	ECI 7	55830	3609	1	18.54	19.70	1.306	62.9	1.006	-0.01	0.470	0.618



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	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	ECI 7	55340	3560	1	18.49	19.70	1.321	62.9	1.006	-0.05	0.400	0.532
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	ECI 7	56150	3641	1	18.51	19.70	1.315	62.9	1.006	-0.16	0.414	0.548
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	ECI 7	56640	3690	1	18.48	19.70	1.324	62.9	1.006	0.15	0.360	0.479
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	ECI 7	55830	3609	1	18.52	19.70	1.312	62.9	1.006	-0.13	0.380	0.502
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 5	ECI 7	55830	3609	1	18.54	19.70	1.306	62.9	1.006	0.13	0.071	0.093
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 5	ECI 7	55830	3609	1	18.52	19.70	1.312	62.9	1.006	0.07	0.069	0.091
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 5	ECI 7	55830	3609	1	18.54	19.70	1.306	62.9	1.006	-0.08	0.097	0.127
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 5	ECI 7	55830	3609	1	18.52	19.70	1.312	62.9	1.006	0.00	0.099	0.131
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 5	ECI 7	55830	3609	1	18.54	19.70	1.306	62.9	1.006	-0.15	0.293	0.385
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 5	ECI 7	55830	3609	1	18.52	19.70	1.312	62.9	1.006	-0.12	0.230	0.304
	LTE Band 48	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 5	ECI 7	55830	3609	1	18.54	19.70	1.306	62.9	1.006	0.14	0.001	0.001
	LTE Band 48	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 5	ECI 7	55830	3609	1	18.52	19.70	1.312	62.9	1.006	-0.09	0.001	0.001
	LTE Band 48C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 5	ECI 7	55830+56028	3609+3628.8	1	16.89	18.00	1.291	62.9	1.006	0.05	0.261	0.339
	FR1 n7	50M	BPSK	1	1	-	Front	5mm	Ant 1	ECI 7	507000	2535	1	20.19	21.30	1.291	-	-	0.06	0.842	1.087
	FR1 n7	50M	BPSK	135	68	-	Front	5mm	Ant 1	ECI 7	507000	2535	1	20.15	21.30	1.303	-	-	0.06	0.806	1.050
	FR1 n7	50M	BPSK	270	0	-	Front	5mm	Ant 1	ECI 7	507000	2535	1	20.11	21.30	1.315	-	-	-0.02	0.782	1.028
	FR1 n7	50M	BPSK	1	1	-	Back	5mm	Ant 1	ECI 7	507000	2535	1	20.19	21.30	1.291	-	-	0.04	0.961	1.241
51	FR1 n7	50M	BPSK	135	68	-	Back	5mm	Ant 1	ECI 7	507000	2535	1	20.15	21.30	1.303	-	-	0.01	0.973	1.268
	FR1 n7	50M	BPSK	270	0	-	Back	5mm	Ant 1	ECI 7	507000	2535	1	20.11	21.30	1.315	-	-	0.09	0.883	1.161
	FR1 n7	50M	BPSK	1	1	-	Left Side	5mm	Ant 1	ECI 7	507000	2535	1	20.19	21.30	1.291	-	-	0.09	0.504	0.651
	FR1 n7	50M	BPSK	135	68	-	Left Side	5mm	Ant 1	ECI 7	507000	2535	1	20.15	21.30	1.303	-	-	-0.16	0.476	0.620
	FR1 n7	50M	BPSK	1	1	-	Right Side	5mm	Ant 1	ECI 7	507000	2535	1	20.19	21.30	1.291	-	-	0.00	0.056	0.072
	FR1 n7	50M	BPSK	135	68	-	Right Side	5mm	Ant 1	ECI 7	507000	2535	1	20.15	21.30	1.303	-	-	-0.15	0.066	0.086
	FR1 n7	50M	BPSK	1	1	-	Top Side	5mm	Ant 1	ECI 7	507000	2535	1	20.19	21.30	1.291	-	-	-0.17	0.057	0.074
	FR1 n7	50M	BPSK	135	68	-	Top Side	5mm	Ant 1	ECI 7	507000	2535	1	20.15	21.30	1.303	-	-	0.14	0.061	0.079
	FR1 n7	50M	BPSK	1	1	-	Bottom Side	5mm	Ant 1	ECI 7	507000	2535	1	20.19	21.30	1.291	-	-	0.01	0.657	0.848
	FR1 n7	50M	BPSK	135	68	-	Bottom Side	5mm	Ant 1	ECI 7	507000	2535	1	20.15	21.30	1.303	-	-	-0.15	0.615	0.801
	FR1 n7	50M	BPSK	270	0	-	Bottom Side	5mm	Ant 1	ECI 7	507000	2535	1	20.11	21.30	1.315	-	-	0.14	0.568	0.747
	FR1 n7	50M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 7	507000	2535	1	12.64	13.80	1.306	-	-	-0.11	0.172	0.225
	FR1 n7	50M	BPSK	135	68	-	Front	5mm	Ant 4	ECI 7	507000	2535	1	12.63	13.80	1.309	-	-	-0.14	0.150	0.196
	FR1 n7	50M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 7	507000	2535	1	12.64	13.80	1.306	-	-	0.16	0.371	0.485
	FR1 n7	50M	BPSK	135	68	-	Back	5mm	Ant 4	ECI 7	507000	2535	1	12.63	13.80	1.309	-	-	0.11	0.359	0.470
	FR1 n7	50M	BPSK	1	1	-	Left Side	5mm	Ant 4	ECI 7	507000	2535	1	12.64	13.80	1.306	-	-	0.07	0.038	0.050
	FR1 n7	50M	BPSK	135	68	-	Left Side	5mm	Ant 4	ECI 7	507000	2535	1	12.63	13.80	1.309	-	-	0.14	0.047	0.062
	FR1 n7	50M	BPSK	1	1	-	Right Side	5mm	Ant 4	ECI 7	507000	2535	1	12.64	13.80	1.306	-	-	0.14	0.004	0.005
	FR1 n7	50M	BPSK	135	68	-	Right Side	5mm	Ant 4	ECI 7	507000	2535	1	12.63	13.80	1.309	-	-	0.12	0.003	0.004
	FR1 n7	50M	BPSK	1	1	-	Top Side	5mm	Ant 4	ECI 7	507000	2535	1	12.64	13.80	1.306	-	-	-0.05	0.471	0.615
	FR1 n7	50M	BPSK	135	68	-	Top Side	5mm	Ant 4	ECI 7	507000	2535	1	12.63	13.80	1.309	-	-	0.14	0.469	0.614
	FR1 n7	50M	BPSK	1	1	-	Bottom Side	5mm	Ant 4	ECI 7	507000	2535	1	12.64	13.80	1.306	-	-	-0.17	< 0.001	< 0.001
	FR1 n7	50M	BPSK	135	68	-	Bottom Side	5mm	Ant 4	ECI 7	507000	2535	1	12.63	13.80	1.309	-	-	-0.10	< 0.001	< 0.001
	FR1 n12	15M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 7	141500	707.5	1	21.81	22.80	1.256	-	-	-0.07	0.198	0.249
	FR1 n12	15M	BPSK	36	22	-	Front	5mm	Ant 4	ECI 7	141500	707.5	1	21.77	22.80	1.268	-	-	0.09	0.206	0.261
52	FR1 n12	15M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 7	141500	707.5	1	21.81	22.80	1.256	-	-	-0.04	0.488	0.613
	FR1 n12	15M	BPSK	36	22	-	Back	5mm	Ant 4	ECI 7	141500	707.5	1	21.77	22.80	1.268	-	-	0.08	0.449	0.569
	FR1 n12	15M	BPSK	1	1	-	Left Side	5mm	Ant 4	ECI 7	141500	707.5	1	21.81	22.80	1.256	-	-	-0.15	0.097	0.122
	FR1 n12	15M	BPSK	36	22	-	Left Side	5mm	Ant 4	ECI 7	141500	707.5	1	21.77	22.80	1.268	-	-	0.13	0.101	0.128
	FR1 n12	15M	BPSK	1	1	-	Right Side	5mm	Ant 4	ECI 7	141500	707.5	1	21.81	22.80	1.256	-	-	-0.01	0.076	0.095
	FR1 n12	15M	BPSK	36	22	-	Right Side	5mm	Ant 4	ECI 7	141500	707.5	1	21.77	22.80	1.268	-	-	-0.12	0.080	0.101
	FR1 n12	15M	BPSK	1	1	-	Top Side	5mm	Ant 4	ECI 7	141500	707.5	1	21.81	22.80	1.256	-	-	0.03	0.364	0.457
	FR1 n12	15M	BPSK	36	22	-	Top Side	5mm	Ant 4	ECI 7	141500	707.5	1	21.77	22.80	1.268	-	-	0.14	0.275	0.349
	FR1 n12	15M	BPSK	1	1	-	Bottom Side	5mm	Ant 4	ECI 7	141500	707.5	1	21.81	22.80	1.256	-	-	-0.07	0.001	0.001
	FR1 n12	15M	BPSK	36	22	-	Bottom Side	5mm	Ant 4	ECI 7	141500	707.5	1	21.77	22.80	1.268	-	-	0.16	0.001	0.001
	FR1 n12	15M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 7	141500	707.5	1	23.13	24.00	1.222	-	-	-0.01	0.259	0.316
	FR1 n12	15M	BPSK	36	22	-	Front	5mm	Ant 0	ECI 7	141500	707.5	1	22.99	24.00	1.262	-	-	-0.08	0.264	0.333
	FR1 n12	15M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 7	141500	707.5	1	23.13	24.00	1.222	-	-	-0.06	0.386	0.472
	FR1 n12	15M	BPSK	36	22	-	Back	5mm	Ant 0	ECI 7	141500	707.5	1	22.99	24.00	1.262	-	-	0.17	0.396	0.500



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	FR1 n12	15M	BPSK	1	1	-	Left Side	5mm	Ant 0	ECI 7	141500	707.5	1	23.13	24.00	1.222	-	-	0.16	0.222	0.271
	FR1 n12	15M	BPSK	36	22	-	Left Side	5mm	Ant 0	ECI 7	141500	707.5	1	22.99	24.00	1.262	-	-	-0.08	0.218	0.275
	FR1 n12	15M	BPSK	1	1	-	Right Side	5mm	Ant 0	ECI 7	141500	707.5	1	23.13	24.00	1.222	-	-	-0.19	0.400	0.489
	FR1 n12	15M	BPSK	36	22	-	Right Side	5mm	Ant 0	ECI 7	141500	707.5	1	22.99	24.00	1.262	-	-	-0.01	0.402	0.507
	FR1 n12	15M	BPSK	1	1	-	Top Side	5mm	Ant 0	ECI 7	141500	707.5	1	23.13	24.00	1.222	-	-	-0.16	0.001	0.001
	FR1 n12	15M	BPSK	36	22	-	Top Side	5mm	Ant 0	ECI 7	141500	707.5	1	22.99	24.00	1.262	-	-	0.17	0.001	0.001
	FR1 n12	15M	BPSK	1	1	-	Bottom Side	5mm	Ant 0	ECI 7	141500	707.5	1	23.13	24.00	1.222	-	-	-0.05	0.225	0.275
	FR1 n12	15M	BPSK	36	22	-	Bottom Side	5mm	Ant 0	ECI 7	141500	707.5	1	22.99	24.00	1.262	-	-	0.13	0.240	0.303
	FR1 n13	10M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 7	156400	782	1	21.76	22.70	1.242	-	-	-0.10	0.231	0.287
	FR1 n13	10M	BPSK	25	14	-	Front	5mm	Ant 4	ECI 7	156400	782	1	21.74	22.70	1.247	-	-	0.12	0.212	0.264
	FR1 n13	10M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 7	156400	782	1	21.76	22.70	1.242	-	-	-0.01	0.487	0.605
	FR1 n13	10M	BPSK	25	14	-	Back	5mm	Ant 4	ECI 7	156400	782	1	21.74	22.70	1.247	-	-	0.08	0.462	0.576
	FR1 n13	10M	BPSK	1	1	-	Left Side	5mm	Ant 4	ECI 7	156400	782	1	21.76	22.70	1.242	-	-	-0.01	0.111	0.138
	FR1 n13	10M	BPSK	25	14	-	Left Side	5mm	Ant 4	ECI 7	156400	782	1	21.74	22.70	1.247	-	-	-0.10	0.098	0.122
	FR1 n13	10M	BPSK	1	1	-	Right Side	5mm	Ant 4	ECI 7	156400	782	1	21.76	22.70	1.242	-	-	-0.17	0.128	0.159
	FR1 n13	10M	BPSK	25	14	-	Right Side	5mm	Ant 4	ECI 7	156400	782	1	21.74	22.70	1.247	-	-	-0.03	0.116	0.145
	FR1 n13	10M	BPSK	1	1	-	Top Side	5mm	Ant 4	ECI 7	156400	782	1	21.76	22.70	1.242	-	-	0.05	0.400	0.497
	FR1 n13	10M	BPSK	25	14	-	Top Side	5mm	Ant 4	ECI 7	156400	782	1	21.74	22.70	1.247	-	-	-0.18	0.379	0.473
	FR1 n13	10M	BPSK	1	1	-	Bottom Side	5mm	Ant 4	ECI 7	156400	782	1	21.76	22.70	1.242	-	-	-0.05	0.001	0.001
	FR1 n13	10M	BPSK	25	14	-	Bottom Side	5mm	Ant 4	ECI 7	156400	782	1	21.74	22.70	1.247	-	-	-0.03	0.001	0.001
	FR1 n13	10M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 7	156400	782	1	23.15	24.00	1.216	-	-	0.03	0.525	0.638
	FR1 n13	10M	BPSK	25	14	-	Front	5mm	Ant 0	ECI 7	156400	782	1	23.07	24.00	1.239	-	-	0.10	0.518	0.642
53	FR1 n13	10M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 7	156400	782	1	23.15	24.00	1.216	-	-	-0.03	0.807	0.981
	FR1 n13	10M	BPSK	25	14	-	Back	5mm	Ant 0	ECI 7	156400	782	1	23.07	24.00	1.239	-	-	-0.02	0.790	0.979
	FR1 n13	10M	BPSK	50	0	-	Back	5mm	Ant 0	ECI 7	156400	782	1	22.56	23.50	1.242	-	-	-0.16	0.709	0.881
	FR1 n13	10M	BPSK	1	1	-	Left Side	5mm	Ant 0	ECI 7	156400	782	1	23.15	24.00	1.216	-	-	-0.03	0.240	0.292
	FR1 n13	10M	BPSK	25	14	-	Left Side	5mm	Ant 0	ECI 7	156400	782	1	23.07	24.00	1.239	-	-	0.17	0.223	0.276
	FR1 n13	10M	BPSK	1	1	-	Right Side	5mm	Ant 0	ECI 7	156400	782	1	23.15	24.00	1.216	-	-	0.04	0.468	0.569
	FR1 n13	10M	BPSK	25	14	-	Right Side	5mm	Ant 0	ECI 7	156400	782	1	23.07	24.00	1.239	-	-	0.09	0.449	0.556
	FR1 n13	10M	BPSK	1	1	-	Top Side	5mm	Ant 0	ECI 7	156400	782	1	23.15	24.00	1.216	-	-	0.03	0.001	0.001
	FR1 n13	10M	BPSK	25	14	-	Top Side	5mm	Ant 0	ECI 7	156400	782	1	23.07	24.00	1.239	-	-	0.04	0.001	0.001
	FR1 n13	10M	BPSK	1	1	-	Bottom Side	5mm	Ant 0	ECI 7	156400	782	1	23.15	24.00	1.216	-	-	-0.14	0.501	0.609
	FR1 n13	10M	BPSK	25	14	-	Bottom Side	5mm	Ant 0	ECI 7	156400	782	1	23.07	24.00	1.239	-	-	-0.11	0.554	0.686
	FR1 n14	10M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 7	158600	793	1	23.15	24.00	1.216	-	-	-0.05	0.527	0.641
	FR1 n14	10M	BPSK	25	14	-	Front	5mm	Ant 0	ECI 7	158600	793	1	23.07	24.00	1.239	-	-	-0.13	0.502	0.622
54	FR1 n14	10M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 7	158600	793	1	23.15	24.00	1.216	-	-	-0.03	0.776	0.944
	FR1 n14	10M	BPSK	25	14	-	Back	5mm	Ant 0	ECI 7	158600	793	1	23.07	24.00	1.239	-	-	0.11	0.761	0.943
	FR1 n14	10M	BPSK	50	0	-	Back	5mm	Ant 0	ECI 7	158600	793	1	22.59	23.50	1.233	-	-	0.03	0.718	0.885
	FR1 n14	10M	BPSK	1	1	-	Left Side	5mm	Ant 0	ECI 7	158600	793	1	23.15	24.00	1.216	-	-	0.14	0.211	0.257
	FR1 n14	10M	BPSK	25	14	-	Left Side	5mm	Ant 0	ECI 7	158600	793	1	23.07	24.00	1.239	-	-	-0.19	0.202	0.250
	FR1 n14	10M	BPSK	1	1	-	Right Side	5mm	Ant 0	ECI 7	158600	793	1	23.15	24.00	1.216	-	-	0.16	0.431	0.524
	FR1 n14	10M	BPSK	25	14	-	Right Side	5mm	Ant 0	ECI 7	158600	793	1	23.07	24.00	1.239	-	-	0.10	0.443	0.549
	FR1 n14	10M	BPSK	1	1	-	Top Side	5mm	Ant 0	ECI 7	158600	793	1	23.15	24.00	1.216	-	-	-0.04	0.001	0.001
	FR1 n14	10M	BPSK	25	14	-	Top Side	5mm	Ant 0	ECI 7	158600	793	1	23.07	24.00	1.239	-	-	0.08	0.001	0.001
	FR1 n14	10M	BPSK	1	1	-	Bottom Side	5mm	Ant 0	ECI 7	158600	793	1	23.15	24.00	1.216	-	-	0.13	0.563	0.685
	FR1 n14	10M	BPSK	25	14	-	Bottom Side	5mm	Ant 0	ECI 7	158600	793	1	23.07	24.00	1.239	-	-	-0.06	0.678	0.840
	FR1 n14	10M	BPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	158600	793	1	22.59	23.50	1.233	-	-	0.03	0.664	0.819
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Front	5mm	Ant 4	ECI 7	376500	1882.5	1	16.67	17.90	1.327	-	-	-0.13	0.201	0.267
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Front	5mm	Ant 4	ECI 7	376500	1882.5	1	16.60	17.90	1.349	-	-	-0.17	0.213	0.287
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Back	5mm	Ant 4	ECI 7	376500	1882.5	1	16.67	17.90	1.327	-	-	-0.15	0.252	0.334
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Back	5mm	Ant 4	ECI 7	376500	1882.5	1	16.60	17.90	1.349	-	-	0.14	0.278	0.375
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Left Side	5mm	Ant 4	ECI 7	376500	1882.5	1	16.67	17.90	1.327	-	-	0.01	0.129	0.171
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Left Side	5mm	Ant 4	ECI 7	376500	1882.5	1	16.60	17.90	1.349	-	-	-0.10	0.117	0.158
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Right Side	5mm	Ant 4	ECI 7	376500	1882.5	1	16.67	17.90	1.327	-	-	0.18	0.026	0.035



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	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Right Side	5mm	Ant 4	ECI 7	376500	1882.5	1	16.60	17.90	1.349	-	-	-0.16	0.027	0.036
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Top Side	5mm	Ant 4	ECI 7	376500	1882.5	1	16.67	17.90	1.327	-	-	0.01	0.456	0.605
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Top Side	5mm	Ant 4	ECI 7	376500	1882.5	1	16.60	17.90	1.349	-	-	0.18	0.411	0.554
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Bottom Side	5mm	Ant 4	ECI 7	376500	1882.5	1	16.67	17.90	1.327	-	-	-0.12	0.021	0.028
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Bottom Side	5mm	Ant 4	ECI 7	376500	1882.5	1	16.60	17.90	1.349	-	-	0.04	0.020	0.027
	FR1 n25	40M	BPSK	1	1	Main PA	Top Side	5mm	Ant 4	ECI 7	376500	1882.5	1	16.35	17.90	1.429	-	-	0.04	0.422	0.603
	FR1 n25	40M	BPSK	1	1	Main PA	Front	5mm	Ant 0	ECI 7	376500	1882.5	1	19.45	20.50	1.274	-	-	-0.11	0.620	0.790
	FR1 n25	40M	BPSK	108	54	Main PA	Front	5mm	Ant 0	ECI 7	376500	1882.5	1	19.44	20.50	1.276	-	-	-0.15	0.607	0.775
	FR1 n25	40M	BPSK	1	1	Main PA	Back	5mm	Ant 0	ECI 7	376500	1882.5	1	19.45	20.50	1.274	-	-	0.03	0.602	0.767
	FR1 n25	40M	BPSK	108	54	Main PA	Back	5mm	Ant 0	ECI 7	376500	1882.5	1	19.44	20.50	1.276	-	-	0.10	0.589	0.752
	FR1 n25	40M	BPSK	1	1	Main PA	Left Side	5mm	Ant 0	ECI 7	376500	1882.5	1	19.45	20.50	1.274	-	-	0.00	0.090	0.115
	FR1 n25	40M	BPSK	108	54	Main PA	Left Side	5mm	Ant 0	ECI 7	376500	1882.5	1	19.44	20.50	1.276	-	-	0.00	0.100	0.128
	FR1 n25	40M	BPSK	1	1	Main PA	Right Side	5mm	Ant 0	ECI 7	376500	1882.5	1	19.45	20.50	1.274	-	-	0.12	0.112	0.143
	FR1 n25	40M	BPSK	108	54	Main PA	Right Side	5mm	Ant 0	ECI 7	376500	1882.5	1	19.44	20.50	1.276	-	-	0.15	0.106	0.135
	FR1 n25	40M	BPSK	1	1	Main PA	Top Side	5mm	Ant 0	ECI 7	376500	1882.5	1	19.45	20.50	1.274	-	-	0.08	< 0.001	< 0.001
	FR1 n25	40M	BPSK	108	54	Main PA	Top Side	5mm	Ant 0	ECI 7	376500	1882.5	1	19.44	20.50	1.276	-	-	-0.17	< 0.001	< 0.001
55	FR1 n25	40M	BPSK	1	1	Main PA	Bottom Side	5mm	Ant 0	ECI 7	376500	1882.5	1	19.45	20.50	1.274	-	-	0.01	0.960	1.223
	FR1 n25	40M	BPSK	108	54	Main PA	Bottom Side	5mm	Ant 0	ECI 7	376500	1882.5	1	19.44	20.50	1.276	-	-	-0.17	0.924	1.179
	FR1 n25	40M	BPSK	216	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	376500	1882.5	1	19.41	20.00	1.146	-	-	0.07	0.901	1.033
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Bottom Side	5mm	Ant 0	ECI 7	376500	1882.5	1	19.38	20.50	1.294	-	-	0.01	0.939	1.215
	FR1 n26	20M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 7	166300	831.5	1	19.78	21.50	1.486	-	-	0.15	0.152	0.226
	FR1 n26	20M	BPSK	50	28	-	Front	5mm	Ant 4	ECI 7	166300	831.5	1	19.77	21.50	1.489	-	-	0.16	0.154	0.229
	FR1 n26	20M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 7	166300	831.5	1	19.78	21.50	1.486	-	-	-0.01	0.403	0.599
	FR1 n26	20M	BPSK	50	28	-	Back	5mm	Ant 4	ECI 7	166300	831.5	1	19.77	21.50	1.489	-	-	0.11	0.346	0.515
	FR1 n26	20M	BPSK	1	1	-	Left Side	5mm	Ant 4	ECI 7	166300	831.5	1	19.78	21.50	1.486	-	-	0.00	0.044	0.065
	FR1 n26	20M	BPSK	50	28	-	Left Side	5mm	Ant 4	ECI 7	166300	831.5	1	19.77	21.50	1.489	-	-	-0.15	0.045	0.067
	FR1 n26	20M	BPSK	1	1	-	Right Side	5mm	Ant 4	ECI 7	166300	831.5	1	19.78	21.50	1.486	-	-	-0.12	0.060	0.089
	FR1 n26	20M	BPSK	50	28	-	Right Side	5mm	Ant 4	ECI 7	166300	831.5	1	19.77	21.50	1.489	-	-	0.13	0.059	0.088
	FR1 n26	20M	BPSK	1	1	-	Top Side	5mm	Ant 4	ECI 7	166300	831.5	1	19.78	21.50	1.486	-	-	0.07	0.284	0.422
	FR1 n26	20M	BPSK	50	28	-	Top Side	5mm	Ant 4	ECI 7	166300	831.5	1	19.77	21.50	1.489	-	-	-0.13	0.287	0.427
	FR1 n26	20M	BPSK	1	1	-	Bottom Side	5mm	Ant 4	ECI 7	166300	831.5	1	19.78	21.50	1.486	-	-	-0.04	< 0.001	< 0.001
	FR1 n26	20M	BPSK	50	28	-	Bottom Side	5mm	Ant 4	ECI 7	166300	831.5	1	19.77	21.50	1.489	-	-	-0.02	< 0.001	< 0.001
	FR1 n26	20M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 7	166300	831.5	1	23.15	24.00	1.216	-	-	0.14	0.508	0.618
	FR1 n26	20M	BPSK	50	28	-	Front	5mm	Ant 0	ECI 7	166300	831.5	1	23.10	24.00	1.230	-	-	0.01	0.539	0.663
56	FR1 n26	20M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 7	166300	831.5	1	23.15	24.00	1.216	-	-	-0.01	1.000	1.216
	FR1 n26	20M	BPSK	50	28	-	Back	5mm	Ant 0	ECI 7	166300	831.5	1	23.10	24.00	1.230	-	-	-0.02	0.947	1.165
	FR1 n26	20M	BPSK	100	0	-	Back	5mm	Ant 0	ECI 7	166300	831.5	1	22.61	23.50	1.227	-	-	-0.10	0.794	0.974
	FR1 n26	20M	BPSK	1	1	-	Left Side	5mm	Ant 0	ECI 7	166300	831.5	1	23.15	24.00	1.216	-	-	-0.15	0.154	0.187
	FR1 n26	20M	BPSK	50	28	-	Left Side	5mm	Ant 0	ECI 7	166300	831.5	1	23.10	24.00	1.230	-	-	-0.08	0.151	0.186
	FR1 n26	20M	BPSK	1	1	-	Right Side	5mm	Ant 0	ECI 7	166300	831.5	1	23.15	24.00	1.216	-	-	-0.15	0.365	0.444
	FR1 n26	20M	BPSK	50	28	-	Right Side	5mm	Ant 0	ECI 7	166300	831.5	1	23.10	24.00	1.230	-	-	0.10	0.331	0.407
	FR1 n26	20M	BPSK	1	1	-	Top Side	5mm	Ant 0	ECI 7	166300	831.5	1	23.15	24.00	1.216	-	-	-0.12	0.001	0.001
	FR1 n26	20M	BPSK	50	28	-	Top Side	5mm	Ant 0	ECI 7	166300	831.5	1	23.10	24.00	1.230	-	-	0.05	0.001	0.001
	FR1 n26	20M	BPSK	1	1	-	Bottom Side	5mm	Ant 0	ECI 7	166300	831.5	1	23.15	24.00	1.216	-	-	-0.18	0.669	0.814
	FR1 n26	20M	BPSK	50	28	-	Bottom Side	5mm	Ant 0	ECI 7	166300	831.5	1	23.10	24.00	1.230	-	-	0.09	0.705	0.867
	FR1 n26	20M	BPSK	100	0	-	Bottom Side	5mm	Ant 0	ECI 7	166300	831.5	1	22.61	23.50	1.227	-	-	0.02	0.574	0.704
	FR1 n30	10M	BPSK	1	1	-	Front	5mm	Ant 1	ECI 7	462000	2310	1	21.16	22.50	1.361	-	-	-0.06	0.634	0.863
	FR1 n30	10M	BPSK	25	14	-	Front	5mm	Ant 1	ECI 7	462000	2310	1	21.15	22.50	1.365	-	-	-0.07	0.647	0.883
	FR1 n30	10M	BPSK	50	0	-	Front	5mm	Ant 1	ECI 7	462000	2310	1	21.11	22.50	1.377	-	-	-0.09	0.601	0.828
	FR1 n30	10M	BPSK	1	1	-	Back	5mm	Ant 1	ECI 7	462000	2310	1	21.16	22.50	1.361	-	-	-0.12	0.848	1.154
57	FR1 n30	10M	BPSK	25	14	-	Back	5mm	Ant 1	ECI 7	462000	2310	1	21.15	22.50	1.365	-	-	0.01	0.934	1.275
	FR1 n30	10M	BPSK	50	0	-	Back	5mm	Ant 1	ECI 7	462000	2310	1	21.11	22.50	1.377	-	-	0.13	0.756	1.041
	FR1 n30	10M	BPSK	1	1	-	Left Side	5mm	Ant 1	ECI 7	462000	2310	1	21.16	22.50	1.361	-	-	0.14	0.411	0.559
	FR1 n30	10M	BPSK	25	14	-	Left Side	5mm	Ant 1	ECI 7	462000	2310	1	21.15	22.50	1.365	-	-	0.14	0.405	0.553
	FR1 n30	10M	BPSK	1	1	-	Right Side	5mm	Ant 1	ECI 7	462000	2310	1	21.16	22.50	1.361	-	-	0.12	0.078	0.106



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	FR1 n30	10M	BPSK	25	14	-	Right Side	5mm	Ant 1	ECI 7	462000	2310	1	21.15	22.50	1.365	-	-	-0.16	0.069	0.094
	FR1 n30	10M	BPSK	1	1	-	Top Side	5mm	Ant 1	ECI 7	462000	2310	1	21.16	22.50	1.361	-	-	0.17	0.031	0.042
	FR1 n30	10M	BPSK	25	14	-	Top Side	5mm	Ant 1	ECI 7	462000	2310	1	21.15	22.50	1.365	-	-	-0.15	0.036	0.049
	FR1 n30	10M	BPSK	1	1	-	Bottom Side	5mm	Ant 1	ECI 7	462000	2310	1	21.16	22.50	1.361	-	-	-0.01	0.466	0.634
	FR1 n30	10M	BPSK	25	14	-	Bottom Side	5mm	Ant 1	ECI 7	462000	2310	1	21.15	22.50	1.365	-	-	-0.17	0.433	0.591
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Front	5mm	Ant 4	ECI 7	349000	1745	1	17.23	17.90	1.167	-	-	-0.09	0.160	0.187
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Front	5mm	Ant 4	ECI 7	349000	1745	1	17.16	17.90	1.186	-	-	-0.09	0.179	0.212
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Back	5mm	Ant 4	ECI 7	349000	1745	1	17.23	17.90	1.167	-	-	-0.14	0.266	0.310
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Back	5mm	Ant 4	ECI 7	349000	1745	1	17.16	17.90	1.186	-	-	-0.09	0.287	0.340
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Left Side	5mm	Ant 4	ECI 7	349000	1745	1	17.23	17.90	1.167	-	-	0.18	0.092	0.107
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Left Side	5mm	Ant 4	ECI 7	349000	1745	1	17.16	17.90	1.186	-	-	0.07	0.105	0.125
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Right Side	5mm	Ant 4	ECI 7	349000	1745	1	17.23	17.90	1.167	-	-	0.16	0.039	0.046
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Right Side	5mm	Ant 4	ECI 7	349000	1745	1	17.16	17.90	1.186	-	-	0.15	0.044	0.052
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Top Side	5mm	Ant 4	ECI 7	349000	1745	1	17.23	17.90	1.167	-	-	0.10	0.298	0.348
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Top Side	5mm	Ant 4	ECI 7	349000	1745	1	17.16	17.90	1.186	-	-	0.01	0.431	0.511
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Bottom Side	5mm	Ant 4	ECI 7	349000	1745	1	17.23	17.90	1.167	-	-	-0.03	0.021	0.025
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Bottom Side	5mm	Ant 4	ECI 7	349000	1745	1	17.16	17.90	1.186	-	-	0.05	0.024	0.028
	FR1 n66	45M	BPSK	120	60	Main PA	Top Side	5mm	Ant 4	ECI 7	349000	1745	1	16.43	17.90	1.403	-	-	0.00	0.349	0.490
	FR1 n66	45M	BPSK	1	1	Main PA	Front	5mm	Ant 0	ECI 7	349000	1745	1	18.59	20.20	1.449	-	-	-0.07	0.462	0.669
	FR1 n66	45M	BPSK	120	60	Main PA	Front	5mm	Ant 0	ECI 7	349000	1745	1	18.55	20.20	1.462	-	-	-0.10	0.476	0.696
	FR1 n66	45M	BPSK	1	1	Main PA	Back	5mm	Ant 0	ECI 7	349000	1745	1	18.59	20.20	1.449	-	-	-0.02	0.504	0.730
	FR1 n66	45M	BPSK	120	60	Main PA	Back	5mm	Ant 0	ECI 7	349000	1745	1	18.55	20.20	1.462	-	-	0.14	0.538	0.787
	FR1 n66	45M	BPSK	1	1	Main PA	Left Side	5mm	Ant 0	ECI 7	349000	1745	1	18.59	20.20	1.449	-	-	-0.18	0.062	0.090
	FR1 n66	45M	BPSK	120	60	Main PA	Left Side	5mm	Ant 0	ECI 7	349000	1745	1	18.55	20.20	1.462	-	-	-0.08	0.065	0.095
	FR1 n66	45M	BPSK	1	1	Main PA	Right Side	5mm	Ant 0	ECI 7	349000	1745	1	18.59	20.20	1.449	-	-	0.14	0.135	0.196
	FR1 n66	45M	BPSK	120	60	Main PA	Right Side	5mm	Ant 0	ECI 7	349000	1745	1	18.55	20.20	1.462	-	-	-0.13	0.147	0.215
	FR1 n66	45M	BPSK	1	1	Main PA	Top Side	5mm	Ant 0	ECI 7	349000	1745	1	18.59	20.20	1.449	-	-	-0.17	0.001	0.001
	FR1 n66	45M	BPSK	120	60	Main PA	Top Side	5mm	Ant 0	ECI 7	349000	1745	1	18.55	20.20	1.462	-	-	0.15	0.001	0.001
	FR1 n66	45M	BPSK	1	1	Main PA	Bottom Side	5mm	Ant 0	ECI 7	349000	1745	1	18.59	20.20	1.449	-	-	0.11	0.769	1.114
	FR1 n66	45M	BPSK	120	60	Main PA	Bottom Side	5mm	Ant 0	ECI 7	349000	1745	1	18.55	20.20	1.462	-	-	0.10	0.749	1.095
	FR1 n66	45M	BPSK	240	0	Main PA	Bottom Side	5mm	Ant 0	ECI 7	349000	1745	1	18.48	20.20	1.486	-	-	0.02	0.655	0.973
58	FR1 n66	45M	BPSK	1	1	PA (Reference Designator)	Bottom Side	5mm	Ant 0	ECI 7	349000	1745	1	18.69	20.20	1.416	-	-	0.01	0.890	1.260
	FR1 n70	15M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 7	340500	1702.5	1	18.02	19.20	1.312	-	-	-0.13	0.237	0.311
	FR1 n70	15M	BPSK	36	22	-	Front	5mm	Ant 4	ECI 7	340500	1702.5	1	17.99	19.20	1.321	-	-	0.04	0.253	0.334
	FR1 n70	15M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 7	340500	1702.5	1	18.02	19.20	1.312	-	-	-0.11	0.351	0.461
	FR1 n70	15M	BPSK	36	22	-	Back	5mm	Ant 4	ECI 7	340500	1702.5	1	17.99	19.20	1.321	-	-	-0.02	0.396	0.523
	FR1 n70	15M	BPSK	1	1	-	Left Side	5mm	Ant 4	ECI 7	340500	1702.5	1	18.02	19.20	1.312	-	-	0.07	0.143	0.188
	FR1 n70	15M	BPSK	36	22	-	Left Side	5mm	Ant 4	ECI 7	340500	1702.5	1	17.99	19.20	1.321	-	-	-0.19	0.137	0.181
	FR1 n70	15M	BPSK	1	1	-	Right Side	5mm	Ant 4	ECI 7	340500	1702.5	1	18.02	19.20	1.312	-	-	-0.04	0.053	0.070
	FR1 n70	15M	BPSK	36	22	-	Right Side	5mm	Ant 4	ECI 7	340500	1702.5	1	17.99	19.20	1.321	-	-	0.07	0.055	0.073
	FR1 n70	15M	BPSK	1	1	-	Top Side	5mm	Ant 4	ECI 7	340500	1702.5	1	18.02	19.20	1.312	-	-	0.00	0.463	0.607
	FR1 n70	15M	BPSK	36	22	-	Top Side	5mm	Ant 4	ECI 7	340500	1702.5	1	17.99	19.20	1.321	-	-	-0.06	0.463	0.612
	FR1 n70	15M	BPSK	1	1	-	Bottom Side	5mm	Ant 4	ECI 7	340500	1702.5	1	18.02	19.20	1.312	-	-	0.07	0.029	0.038
	FR1 n70	15M	BPSK	36	22	-	Bottom Side	5mm	Ant 4	ECI 7	340500	1702.5	1	17.99	19.20	1.321	-	-	0.02	0.026	0.034
	FR1 n70	15M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 7	340500	1702.5	1	19.91	21.00	1.285	-	-	0.01	0.550	0.707
	FR1 n70	15M	BPSK	36	22	-	Front	5mm	Ant 0	ECI 7	340500	1702.5	1	19.89	21.00	1.291	-	-	0.03	0.555	0.717
	FR1 n70	15M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 7	340500	1702.5	1	19.91	21.00	1.285	-	-	0.18	0.690	0.887
	FR1 n70	15M	BPSK	36	22	-	Back	5mm	Ant 0	ECI 7	340500	1702.5	1	19.89	21.00	1.291	-	-	0.00	0.733	0.946
	FR1 n70	15M	BPSK	75	0	-	Back	5mm	Ant 0	ECI 7	340500	1702.5	1	19.87	21.00	1.297	-	-	-0.15	0.647	0.839
	FR1 n70	15M	BPSK	1	1	-	Left Side	5mm	Ant 0	ECI 7	340500	1702.5	1	19.91	21.00	1.285	-	-	-0.15	0.078	0.100
	FR1 n70	15M	BPSK	36	22	-	Left Side	5mm	Ant 0	ECI 7	340500	1702.5	1	19.89	21.00	1.291	-	-	-0.15	0.076	0.098
	FR1 n70	15M	BPSK	1	1	-	Right Side	5mm	Ant 0	ECI 7	340500	1702.5	1	19.91	21.00	1.285	-	-	0.15	0.183	0.235
	FR1 n70	15M	BPSK	36	22	-	Right Side	5mm	Ant 0	ECI 7	340500	1702.5	1	19.89	21.00	1.291	-	-	-0.11	0.206	0.266



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	FR1 n70	15M	BPSK	1	1	-	Top Side	5mm	Ant 0	ECI 7	340500	1702.5	1	19.91	21.00	1.285	-	-	-0.04	< 0.001	< 0.001
	FR1 n70	15M	BPSK	36	22	-	Top Side	5mm	Ant 0	ECI 7	340500	1702.5	1	19.89	21.00	1.291	-	-	0.14	< 0.001	< 0.001
59	FR1 n70	15M	BPSK	1	1	-	Bottom Side	5mm	Ant 0	ECI 7	340500	1702.5	1	19.91	21.00	1.285	-	-	0.00	0.965	1.240
	FR1 n70	15M	BPSK	36	22	-	Bottom Side	5mm	Ant 0	ECI 7	340500	1702.5	1	19.89	21.00	1.291	-	-	0.05	0.946	1.221
	FR1 n70	15M	BPSK	75	0	-	Bottom Side	5mm	Ant 0	ECI 7	340500	1702.5	1	19.87	21.00	1.297	-	-	-0.18	0.883	1.145
	FR1 n71	35M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 7	136100	680.5	1	22.73	23.80	1.279	-	-	-0.09	0.212	0.271
	FR1 n71	35M	BPSK	90	45	-	Front	5mm	Ant 4	ECI 7	136100	680.5	1	22.64	23.80	1.306	-	-	0.14	0.134	0.175
60	FR1 n71	35M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 7	136100	680.5	1	22.73	23.80	1.279	-	-	-0.03	0.475	0.608
	FR1 n71	35M	BPSK	90	45	-	Back	5mm	Ant 4	ECI 7	136100	680.5	1	22.64	23.80	1.306	-	-	-0.16	0.234	0.306
	FR1 n71	35M	BPSK	1	1	-	Left Side	5mm	Ant 4	ECI 7	136100	680.5	1	22.73	23.80	1.279	-	-	-0.04	0.130	0.166
	FR1 n71	35M	BPSK	90	45	-	Left Side	5mm	Ant 4	ECI 7	136100	680.5	1	22.64	23.80	1.306	-	-	0.19	0.067	0.088
	FR1 n71	35M	BPSK	1	1	-	Right Side	5mm	Ant 4	ECI 7	136100	680.5	1	22.73	23.80	1.279	-	-	-0.04	0.125	0.160
	FR1 n71	35M	BPSK	90	45	-	Right Side	5mm	Ant 4	ECI 7	136100	680.5	1	22.64	23.80	1.306	-	-	-0.15	0.075	0.098
	FR1 n71	35M	BPSK	1	1	-	Top Side	5mm	Ant 4	ECI 7	136100	680.5	1	22.73	23.80	1.279	-	-	-0.13	0.200	0.256
	FR1 n71	35M	BPSK	90	45	-	Top Side	5mm	Ant 4	ECI 7	136100	680.5	1	22.64	23.80	1.306	-	-	-0.08	0.144	0.188
	FR1 n71	35M	BPSK	1	1	-	Bottom Side	5mm	Ant 4	ECI 7	136100	680.5	1	22.73	23.80	1.279	-	-	-0.14	0.001	0.001
	FR1 n71	35M	BPSK	90	45	-	Bottom Side	5mm	Ant 4	ECI 7	136100	680.5	1	22.64	23.80	1.306	-	-	-0.18	0.001	0.001
	FR1 n71	35M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 7	136100	680.5	1	23.12	24.00	1.225	-	-	0.03	0.173	0.212
	FR1 n71	35M	BPSK	90	45	-	Front	5mm	Ant 0	ECI 7	136100	680.5	1	23.10	24.00	1.230	-	-	-0.17	0.147	0.181
	FR1 n71	35M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 7	136100	680.5	1	23.12	24.00	1.225	-	-	-0.11	0.251	0.307
	FR1 n71	35M	BPSK	90	45	-	Back	5mm	Ant 0	ECI 7	136100	680.5	1	23.10	24.00	1.230	-	-	-0.06	0.213	0.262
	FR1 n71	35M	BPSK	1	1	-	Left Side	5mm	Ant 0	ECI 7	136100	680.5	1	23.12	24.00	1.225	-	-	0.00	0.172	0.211
	FR1 n71	35M	BPSK	90	45	-	Left Side	5mm	Ant 0	ECI 7	136100	680.5	1	23.10	24.00	1.230	-	-	-0.10	0.144	0.177
	FR1 n71	35M	BPSK	1	1	-	Right Side	5mm	Ant 0	ECI 7	136100	680.5	1	23.12	24.00	1.225	-	-	0.02	0.329	0.403
	FR1 n71	35M	BPSK	90	45	-	Right Side	5mm	Ant 0	ECI 7	136100	680.5	1	23.10	24.00	1.230	-	-	-0.17	0.282	0.347
	FR1 n71	35M	BPSK	1	1	-	Top Side	5mm	Ant 0	ECI 7	136100	680.5	1	23.12	24.00	1.225	-	-	-0.15	0.001	0.001
	FR1 n71	35M	BPSK	90	45	-	Top Side	5mm	Ant 0	ECI 7	136100	680.5	1	23.10	24.00	1.230	-	-	0.18	0.001	0.001
	FR1 n71	35M	BPSK	1	1	-	Bottom Side	5mm	Ant 0	ECI 7	136100	680.5	1	23.12	24.00	1.225	-	-	-0.13	0.108	0.132
	FR1 n71	35M	BPSK	90	45	-	Bottom Side	5mm	Ant 0	ECI 7	136100	680.5	1	23.10	24.00	1.230	-	-	0.07	0.116	0.143
	FR1 n41	100M	BPSK	1	1	-	Front	5mm	Ant 1	ECI 7	518598	2592.99	1	21.09	22.00	1.233	-	-	-0.11	0.574	0.708
	FR1 n41	100M	BPSK	135	69	-	Front	5mm	Ant 1	ECI 7	518598	2592.99	1	21.06	22.00	1.242	-	-	-0.07	0.595	0.739
	FR1 n41	100M	BPSK	1	1	-	Back	5mm	Ant 1	ECI 7	518598	2592.99	1	21.09	22.00	1.233	-	-	0.07	0.799	0.985
	FR1 n41	100M	BPSK	135	69	-	Back	5mm	Ant 1	ECI 7	518598	2592.99	1	21.06	22.00	1.242	-	-	-0.13	0.938	1.165
	FR1 n41	100M	BPSK	270	0	-	Back	5mm	Ant 1	ECI 7	518598	2592.99	1	21.03	22.00	1.250	-	-	0.17	0.865	1.081
	FR1 n41	100M	BPSK	1	1	-	Left Side	5mm	Ant 1	ECI 7	518598	2592.99	1	21.09	22.00	1.233	-	-	-0.15	0.290	0.358
	FR1 n41	100M	BPSK	135	69	-	Left Side	5mm	Ant 1	ECI 7	518598	2592.99	1	21.06	22.00	1.242	-	-	0.12	0.370	0.460
	FR1 n41	100M	BPSK	1	1	-	Right Side	5mm	Ant 1	ECI 7	518598	2592.99	1	21.09	22.00	1.233	-	-	0.03	0.086	0.106
	FR1 n41	100M	BPSK	135	69	-	Right Side	5mm	Ant 1	ECI 7	518598	2592.99	1	21.06	22.00	1.242	-	-	-0.01	0.094	0.117
	FR1 n41	100M	BPSK	1	1	-	Top Side	5mm	Ant 1	ECI 7	518598	2592.99	1	21.09	22.00	1.233	-	-	-0.11	0.058	0.072
	FR1 n41	100M	BPSK	135	69	-	Top Side	5mm	Ant 1	ECI 7	518598	2592.99	1	21.06	22.00	1.242	-	-	-0.13	0.065	0.081
	FR1 n41	100M	BPSK	1	1	-	Bottom Side	5mm	Ant 1	ECI 7	518598	2592.99	1	21.09	22.00	1.233	-	-	0.13	0.433	0.534
	FR1 n41	100M	BPSK	135	69	-	Bottom Side	5mm	Ant 1	ECI 7	518598	2592.99	1	21.06	22.00	1.242	-	-	0.18	0.462	0.574
61	FR1 n41 HPUE	100M	BPSK	135	69	-	Back	5mm	Ant 1	ECI 7	518598	2592.99	1	23.99	25.00	1.262	50.0	1.000	0.01	0.986	1.244
	FR1 n41	100M	BPSK	1	1	Main PA	Front	5mm	Ant 2	ECI 7	518598	2592.99	1	14.18	15.00	1.208	-	-	0.02	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Main PA	Front	5mm	Ant 2	ECI 7	518598	2592.99	1	14.15	15.00	1.216	-	-	-0.12	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Main PA	Back	5mm	Ant 2	ECI 7	518598	2592.99	1	14.18	15.00	1.208	-	-	0.14	0.086	0.104
	FR1 n41	100M	BPSK	135	69	Main PA	Back	5mm	Ant 2	ECI 7	518598	2592.99	1	14.15	15.00	1.216	-	-	0.11	0.289	0.351
	FR1 n41	100M	BPSK	1	1	Main PA	Left Side	5mm	Ant 2	ECI 7	518598	2592.99	1	14.18	15.00	1.208	-	-	0.05	0.110	0.133
	FR1 n41	100M	BPSK	135	69	Main PA	Left Side	5mm	Ant 2	ECI 7	518598	2592.99	1	14.15	15.00	1.216	-	-	0.00	0.354	0.430
	FR1 n41	100M	BPSK	1	1	Main PA	Right Side	5mm	Ant 2	ECI 7	518598	2592.99	1	14.18	15.00	1.208	-	-	-0.19	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Main PA	Right Side	5mm	Ant 2	ECI 7	518598	2592.99	1	14.15	15.00	1.216	-	-	-0.07	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Main PA	Top Side	5mm	Ant 2	ECI 7	518598	2592.99	1	14.18	15.00	1.208	-	-	0.16	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Main PA	Top Side	5mm	Ant 2	ECI 7	518598	2592.99	1	14.15	15.00	1.216	-	-	-0.09	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Main PA	Bottom Side	5mm	Ant 2	ECI 7	518598	2592.99	1	14.18	15.00	1.208	-	-	-0.18	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Main PA	Bottom Side	5mm	Ant 2	ECI 7	518598	2592.99	1	14.15	15.00	1.216	-	-	-0.14	0.001	0.001
	FR1	100M	BPSK	135	69	Main PA	Left Side	5mm	Ant 2	ECI 7	518598	2592.99	1	17.06	18.00	1.242	50.0	1.000	-0.15	0.335	0.416



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n41_HPUE																					
	FR1 n41	100M	BPSK	135	69	PA (Reference Designator)	Left Side	5mm	Ant 2	ECI 7	518598	2592.99	1	14.19	15.00	1.205	-	-	-0.04	0.215	0.259
	FR1 n41	100M	BPSK	1	1	Main PA	Front	5mm	Ant 4	ECI 7	518598	2592.99	1	12.47	13.50	1.268	-	-	-0.17	0.156	0.198
	FR1 n41	100M	BPSK	135	69	Main PA	Front	5mm	Ant 4	ECI 7	518598	2592.99	1	12.35	13.50	1.303	-	-	0.17	0.152	0.198
	FR1 n41	100M	BPSK	1	1	Main PA	Back	5mm	Ant 4	ECI 7	518598	2592.99	1	12.47	13.50	1.268	-	-	-0.10	0.371	0.470
	FR1 n41	100M	BPSK	135	69	Main PA	Back	5mm	Ant 4	ECI 7	518598	2592.99	1	12.35	13.50	1.303	-	-	0.11	0.373	0.486
	FR1 n41	100M	BPSK	1	1	Main PA	Left Side	5mm	Ant 4	ECI 7	518598	2592.99	1	12.47	13.50	1.268	-	-	-0.09	0.055	0.070
	FR1 n41	100M	BPSK	135	69	Main PA	Left Side	5mm	Ant 4	ECI 7	518598	2592.99	1	12.35	13.50	1.303	-	-	-0.12	0.073	0.095
	FR1 n41	100M	BPSK	1	1	Main PA	Right Side	5mm	Ant 4	ECI 7	518598	2592.99	1	12.47	13.50	1.268	-	-	-0.11	< 0.001	< 0.001
	FR1 n41	100M	BPSK	135	69	Main PA	Right Side	5mm	Ant 4	ECI 7	518598	2592.99	1	12.35	13.50	1.303	-	-	-0.16	< 0.001	< 0.001
	FR1 n41	100M	BPSK	1	1	Main PA	Top Side	5mm	Ant 4	ECI 7	518598	2592.99	1	12.47	13.50	1.268	-	-	0.00	0.479	0.607
	FR1 n41	100M	BPSK	135	69	Main PA	Top Side	5mm	Ant 4	ECI 7	518598	2592.99	1	12.35	13.50	1.303	-	-	0.04	0.472	0.615
	FR1 n41	100M	BPSK	1	1	Main PA	Bottom Side	5mm	Ant 4	ECI 7	518598	2592.99	1	12.47	13.50	1.268	-	-	0.04	< 0.001	< 0.001
	FR1 n41	100M	BPSK	135	69	Main PA	Bottom Side	5mm	Ant 4	ECI 7	518598	2592.99	1	12.35	13.50	1.303	-	-	0.14	< 0.001	< 0.001
	FR1 n41_HPUE	100M	BPSK	135	69	Main PA	Top Side	5mm	Ant 4	ECI 7	518598	2592.99	1	15.06	16.50	1.393	50.0	1.000	-0.14	0.431	0.600
	FR1 n41	100M	BPSK	1	1	PA (Reference Designator)	Top Side	5mm	Ant 4	ECI 7	518598	2592.99	1	12.36	13.50	1.300	-	-	0.06	0.382	0.497
	FR1 n41	100M	BPSK	1	1	-	Front	5mm	Ant 7	ECI 7	518598	2592.99	1	18.61	19.70	1.285	-	-	-0.03	0.308	0.396
	FR1 n41	100M	BPSK	135	69	-	Front	5mm	Ant 7	ECI 7	518598	2592.99	1	18.44	19.70	1.337	-	-	0.15	0.255	0.341
	FR1 n41	100M	BPSK	1	1	-	Back	5mm	Ant 7	ECI 7	518598	2592.99	1	18.61	19.70	1.285	-	-	0.15	0.294	0.378
	FR1 n41	100M	BPSK	135	69	-	Back	5mm	Ant 7	ECI 7	518598	2592.99	1	18.44	19.70	1.337	-	-	-0.01	0.192	0.257
	FR1 n41	100M	BPSK	1	1	-	Left Side	5mm	Ant 7	ECI 7	518598	2592.99	1	18.61	19.70	1.285	-	-	-0.04	0.001	0.001
	FR1 n41	100M	BPSK	135	69	-	Left Side	5mm	Ant 7	ECI 7	518598	2592.99	1	18.44	19.70	1.337	-	-	-0.15	0.001	0.001
	FR1 n41	100M	BPSK	1	1	-	Right Side	5mm	Ant 7	ECI 7	518598	2592.99	1	18.61	19.70	1.285	-	-	-0.04	0.475	0.610
	FR1 n41	100M	BPSK	135	69	-	Right Side	5mm	Ant 7	ECI 7	518598	2592.99	1	18.44	19.70	1.337	-	-	0.00	0.444	0.594
	FR1 n41	100M	BPSK	1	1	-	Top Side	5mm	Ant 7	ECI 7	518598	2592.99	1	18.61	19.70	1.285	-	-	0.05	0.051	0.066
	FR1 n41	100M	BPSK	135	69	-	Top Side	5mm	Ant 7	ECI 7	518598	2592.99	1	18.44	19.70	1.337	-	-	0.00	0.048	0.064
	FR1 n41	100M	BPSK	1	1	-	Bottom Side	5mm	Ant 7	ECI 7	518598	2592.99	1	18.61	19.70	1.285	-	-	0.08	0.001	0.001
	FR1 n41	100M	BPSK	135	69	-	Bottom Side	5mm	Ant 7	ECI 7	518598	2592.99	1	18.44	19.70	1.337	-	-	0.08	0.001	0.001
	FR1 n41_HPUE	100M	BPSK	1	1	-	Right Side	5mm	Ant 7	ECI 7	518598	2592.99	1	21.58	22.70	1.294	50.0	1.000	-0.12	0.447	0.578
	FR1 n48	40M	BPSK	1	1	-	Front	5mm	Ant 1	ECI 7	641666	3624.99	1	18.60	19.00	1.096	-	-	0.09	0.146	0.160
	FR1 n48	40M	BPSK	50	28	-	Front	5mm	Ant 1	ECI 7	641666	3624.99	1	18.54	19.00	1.112	-	-	-0.12	0.179	0.199
	FR1 n48	40M	BPSK	1	1	-	Back	5mm	Ant 1	ECI 7	641666	3624.99	1	18.60	19.00	1.096	-	-	-0.02	0.206	0.226
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 1	ECI 7	641666	3624.99	1	18.54	19.00	1.112	-	-	-0.06	0.260	0.289
	FR1 n48	40M	BPSK	1	1	-	Left Side	5mm	Ant 1	ECI 7	641666	3624.99	1	18.60	19.00	1.096	-	-	-0.10	0.048	0.053
	FR1 n48	40M	BPSK	50	28	-	Left Side	5mm	Ant 1	ECI 7	641666	3624.99	1	18.54	19.00	1.112	-	-	0.17	0.016	0.018
	FR1 n48	40M	BPSK	1	1	-	Right Side	5mm	Ant 1	ECI 7	641666	3624.99	1	18.60	19.00	1.096	-	-	0.10	0.021	0.023
	FR1 n48	40M	BPSK	50	28	-	Right Side	5mm	Ant 1	ECI 7	641666	3624.99	1	18.54	19.00	1.112	-	-	-0.18	0.045	0.050
	FR1 n48	40M	BPSK	1	1	-	Top Side	5mm	Ant 1	ECI 7	641666	3624.99	1	18.60	19.00	1.096	-	-	-0.05	0.001	0.001
	FR1 n48	40M	BPSK	50	28	-	Top Side	5mm	Ant 1	ECI 7	641666	3624.99	1	18.54	19.00	1.112	-	-	0.19	0.001	0.001
	FR1 n48	40M	BPSK	1	1	-	Bottom Side	5mm	Ant 1	ECI 7	641666	3624.99	1	18.60	19.00	1.096	-	-	0.16	0.244	0.267
	FR1 n48	40M	BPSK	50	28	-	Bottom Side	5mm	Ant 1	ECI 7	641666	3624.99	1	18.54	19.00	1.112	-	-	-0.03	0.254	0.282
	FR1 n48	40M	BPSK	1	1	-	Front	5mm	Ant 3	ECI 7	641666	3624.99	1	18.80	20.00	1.318	-	-	0.02	0.216	0.285
	FR1 n48	40M	BPSK	50	28	-	Front	5mm	Ant 3	ECI 7	641666	3624.99	1	18.69	20.00	1.352	-	-	0.16	0.247	0.334
	FR1 n48	40M	BPSK	1	1	-	Back	5mm	Ant 3	ECI 7	641666	3624.99	1	18.80	20.00	1.318	-	-	0.00	0.306	0.403
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 3	ECI 7	641666	3624.99	1	18.69	20.00	1.352	-	-	-0.11	0.192	0.260
	FR1 n48	40M	BPSK	1	1	-	Left Side	5mm	Ant 3	ECI 7	641666	3624.99	1	18.80	20.00	1.318	-	-	0.12	0.274	0.361
	FR1 n48	40M	BPSK	50	28	-	Left Side	5mm	Ant 3	ECI 7	641666	3624.99	1	18.69	20.00	1.352	-	-	-0.01	0.302	0.408
	FR1 n48	40M	BPSK	1	1	-	Right Side	5mm	Ant 3	ECI 7	641666	3624.99	1	18.80	20.00	1.318	-	-	-0.10	0.035	0.046
	FR1 n48	40M	BPSK	50	28	-	Right Side	5mm	Ant 3	ECI 7	641666	3624.99	1	18.69	20.00	1.352	-	-	0.11	0.040	0.054
	FR1 n48	40M	BPSK	1	1	-	Top Side	5mm	Ant 3	ECI 7	641666	3624.99	1	18.80	20.00	1.318	-	-	0.11	0.197	0.260
	FR1 n48	40M	BPSK	50	28	-	Top Side	5mm	Ant 3	ECI 7	641666	3624.99	1	18.69	20.00	1.352	-	-	0.05	0.202	0.273
	FR1 n48	40M	BPSK	1	1	-	Bottom Side	5mm	Ant 3	ECI 7	641666	3624.99	1	18.80	20.00	1.318	-	-	0.11	0.001	0.001
	FR1 n48	40M	BPSK	50	28	-	Bottom Side	5mm	Ant 3	ECI 7	641666	3624.99	1	18.69	20.00	1.352	-	-	0.04	0.001	0.001
	FR1 n48	40M	BPSK	1	1	-	Front	5mm	Ant 5	ECI 7	641666	3624.99	1	16.69	18.00	1.352	-	-	0.11	0.163	0.220
	FR1 n48	40M	BPSK	50	28	-	Front	5mm	Ant 5	ECI 7	641666	3624.99	1	16.49	18.00	1.416	-	-	0.17	0.160	0.227



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	FR1 n48	40M	BPSK	1	1	-	Back	5mm	Ant 5	ECI 7	641666	3624.99	1	16.69	18.00	1.352	-	-	0.02	0.376	0.508
62	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 5	ECI 7	645332	3679.98	1	16.49	18.00	1.416	-	-	-0.06	0.435	0.616
	FR1 n48	40M	BPSK	1	1	-	Left Side	5mm	Ant 5	ECI 7	641666	3624.99	1	16.69	18.00	1.352	-	-	-0.02	0.034	0.046
	FR1 n48	40M	BPSK	50	28	-	Left Side	5mm	Ant 5	ECI 7	641666	3624.99	1	16.49	18.00	1.416	-	-	0.00	0.035	0.050
	FR1 n48	40M	BPSK	1	1	-	Right Side	5mm	Ant 5	ECI 7	641666	3624.99	1	16.69	18.00	1.352	-	-	0.08	0.073	0.099
	FR1 n48	40M	BPSK	50	28	-	Right Side	5mm	Ant 5	ECI 7	641666	3624.99	1	16.49	18.00	1.416	-	-	0.02	0.074	0.105
	FR1 n48	40M	BPSK	1	1	-	Top Side	5mm	Ant 5	ECI 7	641666	3624.99	1	16.69	18.00	1.352	-	-	0.18	0.160	0.216
	FR1 n48	40M	BPSK	50	28	-	Top Side	5mm	Ant 5	ECI 7	641666	3624.99	1	16.49	18.00	1.416	-	-	0.12	0.153	0.217
	FR1 n48	40M	BPSK	1	1	-	Bottom Side	5mm	Ant 5	ECI 7	641666	3624.99	1	16.69	18.00	1.352	-	-	0.08	< 0.001	< 0.001
	FR1 n48	40M	BPSK	50	28	-	Bottom Side	5mm	Ant 5	ECI 7	641666	3624.99	1	16.49	18.00	1.416	-	-	0.04	< 0.001	< 0.001
	FR1 n48	40M	BPSK	1	1	-	Front	5mm	Ant 8	ECI 7	641666	3624.99	1	11.88	13.50	1.452	-	-	-0.17	0.029	0.042
	FR1 n48	40M	BPSK	50	28	-	Front	5mm	Ant 8	ECI 7	641666	3624.99	1	11.86	13.50	1.459	-	-	0.17	0.031	0.045
	FR1 n48	40M	BPSK	1	1	-	Back	5mm	Ant 8	ECI 7	641666	3624.99	1	11.88	13.50	1.452	-	-	-0.06	0.390	0.566
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 8	ECI 7	641666	3624.99	1	11.86	13.50	1.459	-	-	0.14	0.407	0.594
	FR1 n48	40M	BPSK	1	1	-	Left Side	5mm	Ant 8	ECI 7	641666	3624.99	1	11.88	13.50	1.452	-	-	0.18	0.020	0.029
	FR1 n48	40M	BPSK	50	28	-	Left Side	5mm	Ant 8	ECI 7	641666	3624.99	1	11.86	13.50	1.459	-	-	0.02	0.020	0.029
	FR1 n48	40M	BPSK	1	1	-	Right Side	5mm	Ant 8	ECI 7	641666	3624.99	1	11.88	13.50	1.452	-	-	-0.08	0.126	0.183
	FR1 n48	40M	BPSK	50	28	-	Right Side	5mm	Ant 8	ECI 7	641666	3624.99	1	11.86	13.50	1.459	-	-	-0.15	0.144	0.210
	FR1 n48	40M	BPSK	1	1	-	Top Side	5mm	Ant 8	ECI 7	641666	3624.99	1	11.88	13.50	1.452	-	-	-0.04	0.113	0.164
	FR1 n48	40M	BPSK	50	28	-	Top Side	5mm	Ant 8	ECI 7	641666	3624.99	1	11.86	13.50	1.459	-	-	-0.08	0.120	0.175
	FR1 n48	40M	BPSK	1	1	-	Bottom Side	5mm	Ant 8	ECI 7	641666	3624.99	1	11.88	13.50	1.452	-	-	0.10	< 0.001	< 0.001
	FR1 n48	40M	BPSK	50	28	-	Bottom Side	5mm	Ant 8	ECI 7	641666	3624.99	1	11.86	13.50	1.459	-	-	-0.13	< 0.001	< 0.001

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	PA	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	-0.06	0.297	0.356
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	0.17	0.255	0.308
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	0.18	0.373	0.447
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	-0.11	0.520	0.628
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Side	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	-0.08	0.079	0.095
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Side	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	0.05	0.089	0.108
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	-0.05	0.002	0.002
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	-0.15	0.002	0.002
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	-0.04	0.002	0.002
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	-0.17	0.002	0.002
	FR1 n77 (27Q)	100M	BPSK	1	1	Bottom Side	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	-0.14	0.286	0.343
	FR1 n77 (27Q)	100M	BPSK	135	69	Bottom Side	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	0.13	0.308	0.372
	FR1 n77 (27Q)_HPUE	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 7	633332	3499.98	1	PA (Reference Designator)	26.11	27.00	1.227	50.0	1.000	-0.09	0.553	0.679
	FR1 n77 (27Q)_HPUE	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 7	633332	3499.98	1	Main PA	21.08	22.00	1.236	50.0	1.000	-0.09	0.275	0.340
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	0.09	0.389	0.457
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 7	650000	3750	1	PA (Reference Designator)	23.16	24.00	1.213	100.0	1.000	-0.17	0.368	0.446
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 7	661334	3920.01	1	PA (Reference Designator)	23.24	24.00	1.191	100.0	1.000	-0.07	0.348	0.414
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 3	662000	3930	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	0.01	0.350	0.423
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.16	0.443	0.524
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 7	650000	3750	1	PA (Reference Designator)	23.15	24.00	1.216	100.0	1.000	-0.18	0.433	0.527
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 7	661334	3920.01	1	PA (Reference Designator)	23.06	24.00	1.242	100.0	1.000	0.06	0.399	0.496
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 3	662000	3930	1	PA (Reference Designator)	22.87	24.00	1.297	100.0	1.000	-0.04	0.369	0.479
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	0.17	0.870	1.022
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 7	650000	3750	1	PA (Reference Designator)	23.16	24.00	1.213	100.0	1.000	0.15	0.631	0.765
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 7	661334	3920.01	1	PA (Reference Designator)	23.24	24.00	1.191	100.0	1.000	-0.01	0.554	0.660



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	FR1 n77 (270)	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 3	662000	3930	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	0.08	0.522	0.631
	FR1 n77 (270)	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.12	0.652	0.771
	FR1 n77 (270)	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 7	650000	3750	1	PA (Reference Designator)	23.15	24.00	1.216	100.0	1.000	0.17	0.621	0.755
	FR1 n77 (270)	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 7	661334	3920.01	1	PA (Reference Designator)	23.06	24.00	1.242	100.0	1.000	-0.14	0.561	0.697
	FR1 n77 (270)	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 3	662000	3930	1	PA (Reference Designator)	22.87	24.00	1.297	100.0	1.000	0.09	0.529	0.686
	FR1 n77 (270)	100M	BPSK	270	0	Back	5mm	Ant 1	ECI 7	661334	3920.01	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.05	0.555	0.657
	FR1 n77 (270)	100M	BPSK	1	1	Left Side	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	0.02	0.154	0.181
	FR1 n77 (270)	100M	BPSK	135	69	Left Side	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	-0.17	0.166	0.196
	FR1 n77 (270)	100M	BPSK	1	1	Right Side	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	0.16	0.001	0.001
	FR1 n77 (270)	100M	BPSK	135	69	Right Side	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.11	0.001	0.001
	FR1 n77 (270)	100M	BPSK	1	1	Top Side	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	-0.17	0.001	0.001
	FR1 n77 (270)	100M	BPSK	135	69	Top Side	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.05	0.001	0.001
	FR1 n77 (270)	100M	BPSK	1	1	Bottom Side	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	0.01	0.227	0.267
	FR1 n77 (270)	100M	BPSK	135	69	Bottom Side	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.12	0.204	0.241
63	FR1 n77 (270)_HPUE	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 7	655668	3835.02	1	PA (Reference Designator)	26.25	27.00	1.189	50.0	1.000	-0.01	0.891	1.059
	FR1 n77 (270)_HPUE	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 7	655668	3835.02	1	Main PA	21.18	22.00	1.208	50.0	1.000	-0.07	0.272	0.329
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.77	15.50	1.183	100.0	1.000	0.13	0.100	0.118
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.75	15.50	1.189	100.0	1.000	0.06	0.100	0.119
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.77	15.50	1.183	100.0	1.000	0.06	0.125	0.148
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.75	15.50	1.189	100.0	1.000	0.08	0.122	0.145
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Side	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.77	15.50	1.183	100.0	1.000	-0.03	0.141	0.167
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Side	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.75	15.50	1.189	100.0	1.000	-0.14	0.132	0.157
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.77	15.50	1.183	100.0	1.000	-0.17	0.011	0.013
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.75	15.50	1.189	100.0	1.000	-0.02	0.012	0.014
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.77	15.50	1.183	100.0	1.000	-0.07	0.064	0.076
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.75	15.50	1.189	100.0	1.000	0.11	0.071	0.084
	FR1 n77 (27Q)	100M	BPSK	1	1	Bottom Side	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.77	15.50	1.183	100.0	1.000	0.08	< 0.001	< 0.001
	FR1 n77 (27Q)	100M	BPSK	135	69	Bottom Side	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	14.75	15.50	1.189	100.0	1.000	0.11	< 0.001	< 0.001
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Left Side	5mm	Ant 3	ECI 7	633332	3499.98	1	PA (Reference Designator)	17.77	18.50	1.183	50.0	1.000	0.05	0.127	0.150
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Side	5mm	Ant 3	ECI 7	633332	3499.98	1	Main PA	10.06	10.50	1.107	100.0	1.000	0.02	0.060	0.066
	FR1 n77 (270)	100M	BPSK	1	1	Front	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.71	15.50	1.199	100.0	1.000	0.04	0.117	0.140
	FR1 n77 (270)	100M	BPSK	135	69	Front	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.70	15.50	1.202	100.0	1.000	0.12	0.184	0.221
	FR1 n77 (270)	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.71	15.50	1.199	100.0	1.000	0.15	0.258	0.309
	FR1 n77 (270)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.70	15.50	1.202	100.0	1.000	-0.02	0.337	0.405
	FR1 n77 (270)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 7	650000	3750	1	PA (Reference Designator)	14.69	15.50	1.205	100.0	1.000	0.14	0.085	0.102
	FR1 n77 (270)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 7	661334	3920.01	1	PA (Reference Designator)	14.61	15.50	1.227	100.0	1.000	0.13	0.303	0.372
	FR1 n77 (270)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 7	662000	3930	1	PA (Reference Designator)	14.56	15.50	1.242	100.0	1.000	0.11	0.259	0.322
	FR1 n77 (270)	100M	BPSK	1	1	Left Side	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.71	15.50	1.199	100.0	1.000	0.03	0.180	0.216
	FR1 n77 (270)	100M	BPSK	135	69	Left Side	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.70	15.50	1.202	100.0	1.000	-0.15	0.252	0.303
	FR1 n77 (270)	100M	BPSK	1	1	Right Side	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.71	15.50	1.199	100.0	1.000	0.03	0.017	0.020
	FR1 n77 (270)	100M	BPSK	135	69	Right Side	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.70	15.50	1.202	100.0	1.000	-0.12	0.017	0.020
	FR1 n77 (270)	100M	BPSK	1	1	Top Side	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.71	15.50	1.199	100.0	1.000	-0.07	0.107	0.128
	FR1 n77 (270)	100M	BPSK	135	69	Top Side	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.70	15.50	1.202	100.0	1.000	0.13	0.118	0.142
	FR1 n77 (270)	100M	BPSK	1	1	Bottom Side	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.71	15.50	1.199	100.0	1.000	0.11	0.005	0.006
	FR1 n77 (270)	100M	BPSK	135	69	Bottom Side	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	14.70	15.50	1.202	100.0	1.000	-0.01	0.003	0.004
	FR1 n77 (270)_HPUE	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 7	655668	3835.02	1	PA (Reference Designator)	17.77	18.50	1.183	50.0	1.000	-0.15	0.325	0.384
	FR1 n77 (270)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 7	655668	3835.02	1	Main PA	10.03	10.50	1.114	100.0	1.000	0.11	0.093	0.104



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	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.36	15.50	1.300	100.0	1.000	-0.01	0.115	0.150
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.33	15.50	1.309	100.0	1.000	0.12	0.109	0.143
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.36	15.50	1.300	100.0	1.000	-0.06	0.312	0.406
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.33	15.50	1.309	100.0	1.000	0.07	0.179	0.234
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Side	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.36	15.50	1.300	100.0	1.000	0.10	0.016	0.021
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Side	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.33	15.50	1.309	100.0	1.000	0.17	0.016	0.021
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.36	15.50	1.300	100.0	1.000	-0.07	0.051	0.066
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.33	15.50	1.309	100.0	1.000	0.14	0.048	0.063
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.36	15.50	1.300	100.0	1.000	-0.09	0.128	0.166
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.33	15.50	1.309	100.0	1.000	-0.01	0.118	0.154
	FR1 n77 (27Q)	100M	BPSK	1	1	Bottom Side	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.36	15.50	1.300	100.0	1.000	-0.07	0.005	0.007
	FR1 n77 (27Q)	100M	BPSK	135	69	Bottom Side	5mm	Ant 5	ECI 7	633332	3499.98	1	-	14.33	15.50	1.309	100.0	1.000	-0.09	0.004	0.005
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 7	633332	3499.98	1	-	16.77	18.50	1.489	50.0	1.000	0.01	0.286	0.426
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.54	15.50	1.247	100.0	1.000	0.18	0.104	0.130
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.53	15.50	1.250	100.0	1.000	0.00	0.088	0.110
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.54	15.50	1.247	100.0	1.000	0.06	0.297	0.370
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.53	15.50	1.250	100.0	1.000	-0.01	0.244	0.305
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Side	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.54	15.50	1.247	100.0	1.000	0.15	0.021	0.026
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Side	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.53	15.50	1.250	100.0	1.000	-0.07	0.021	0.026
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.54	15.50	1.247	100.0	1.000	-0.09	0.051	0.064
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.53	15.50	1.250	100.0	1.000	0.09	0.051	0.064
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.54	15.50	1.247	100.0	1.000	-0.04	0.050	0.062
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.53	15.50	1.250	100.0	1.000	0.05	0.115	0.144
	FR1 n77 (27Q)	100M	BPSK	1	1	Bottom Side	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.54	15.50	1.247	100.0	1.000	0.05	0.004	0.005
	FR1 n77 (27Q)	100M	BPSK	135	69	Bottom Side	5mm	Ant 5	ECI 7	661334	3920.01	1	-	14.53	15.50	1.250	100.0	1.000	-0.13	0.005	0.006
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 7	661334	3920.01	1	-	16.94	18.50	1.432	50.0	1.000	0.01	0.270	0.387
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.81	12.50	1.172	100.0	1.000	-0.14	0.021	0.025
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.68	12.50	1.208	100.0	1.000	0.11	0.022	0.027
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.81	12.50	1.172	100.0	1.000	-0.02	0.413	0.484
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.68	12.50	1.208	100.0	1.000	0.16	0.305	0.368
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Side	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.81	12.50	1.172	100.0	1.000	0.18	0.009	0.011
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Side	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.68	12.50	1.208	100.0	1.000	0.00	0.011	0.013
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.81	12.50	1.172	100.0	1.000	0.05	0.100	0.117
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.68	12.50	1.208	100.0	1.000	-0.12	0.095	0.115
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.81	12.50	1.172	100.0	1.000	0.13	0.056	0.066
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.68	12.50	1.208	100.0	1.000	-0.09	0.067	0.081
	FR1 n77 (27Q)	100M	BPSK	1	1	Bottom Side	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.81	12.50	1.172	100.0	1.000	0.07	0.005	0.006
	FR1 n77 (27Q)	100M	BPSK	135	69	Bottom Side	5mm	Ant 8	ECI 7	633332	3499.98	1	-	11.68	12.50	1.208	100.0	1.000	-0.11	0.005	0.006
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 7	633332	3499.98	1	-	14.28	15.50	1.324	50.0	1.000	-0.06	0.372	0.493
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.21	12.50	1.069	100.0	1.000	0.01	0.015	0.016
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.12	12.50	1.091	100.0	1.000	-0.03	0.013	0.014
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.21	12.50	1.069	100.0	1.000	-0.05	0.532	0.569
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 7	650000	3750	1	-	12.00	12.50	1.122	100.0	1.000	0.09	0.497	0.558
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 7	655668	3835.02	1	-	12.17	12.50	1.079	100.0	1.000	0.12	0.451	0.487
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 7	662000	3930	1	-	12.19	12.50	1.074	100.0	1.000	0.06	0.523	0.562
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.12	12.50	1.091	100.0	1.000	-0.09	0.356	0.388
	FR1 n77 (27Q)	100M	BPSK	1	1	Left Side	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.21	12.50	1.069	100.0	1.000	-0.07	0.010	0.011
	FR1 n77 (27Q)	100M	BPSK	135	69	Left Side	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.12	12.50	1.091	100.0	1.000	-0.09	0.008	0.009
	FR1 n77 (27Q)	100M	BPSK	1	1	Right Side	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.21	12.50	1.069	100.0	1.000	0.17	0.076	0.081
	FR1 n77 (27Q)	100M	BPSK	135	69	Right Side	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.12	12.50	1.091	100.0	1.000	0.10	0.059	0.064
	FR1 n77 (27Q)	100M	BPSK	1	1	Top Side	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.21	12.50	1.069	100.0	1.000	-0.10	0.061	0.065
	FR1 n77 (27Q)	100M	BPSK	135	69	Top Side	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.12	12.50	1.091	100.0	1.000	-0.02	0.049	0.053
	FR1 n77 (27Q)	100M	BPSK	1	1	Bottom Side	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.21	12.50	1.069	100.0	1.000	0.04	0.006	0.006
	FR1 n77 (27Q)	100M	BPSK	135	69	Bottom Side	5mm	Ant 8	ECI 7	661334	3920.01	1	-	12.12	12.50	1.091	100.0	1.000	0.18	0.005	0.005
	FR1 n77 (27Q)_HPUE	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 7	661334	3920.01	1	-	14.59	15.50	1.233	50.0	1.000	0.13	0.440	0.543

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WLAN																	
	Bluetooth	1Mbps	Front	5mm	Ant 6	Hotspot	39	2441	1	10.60	12.00	1.380	76.8	1.085	0.11	0.054	0.081
64	Bluetooth	1Mbps	Back	5mm	Ant 6	Hotspot	39	2441	1	10.60	12.00	1.380	76.8	1.085	-0.03	0.090	0.135
	Bluetooth	1Mbps	Left Side	5mm	Ant 6	Hotspot	39	2441	1	10.60	12.00	1.380	76.8	1.085	-0.06	< 0.001	< 0.001
	Bluetooth	1Mbps	Right Side	5mm	Ant 6	Hotspot	39	2441	1	10.60	12.00	1.380	76.8	1.085	-0.15	0.062	0.093
	Bluetooth	1Mbps	Top Side	5mm	Ant 6	Hotspot	39	2441	1	10.60	12.00	1.380	76.8	1.085	0.08	0.059	0.088
	Bluetooth	1Mbps	Bottom Side	5mm	Ant 6	Hotspot	39	2441	1	10.60	12.00	1.380	76.8	1.085	0.07	0.005	0.007
	2.4GHz WLAN	802.11b 1Mbps	Front	5mm	Ant 6	Hotspot	11	2462	1	17.02	18.00	1.253	99.5	1.005	0.09	0.296	0.373
65	2.4GHz WLAN	802.11b 1Mbps	Back	5mm	Ant 6	Hotspot	11	2462	1	17.02	18.00	1.253	99.5	1.005	0.13	0.469	0.591
	2.4GHz WLAN	802.11b 1Mbps	Left Side	5mm	Ant 6	Hotspot	11	2462	1	17.02	18.00	1.253	99.5	1.005	-0.11	0.029	0.037
	2.4GHz WLAN	802.11b 1Mbps	Right Side	5mm	Ant 6	Hotspot	11	2462	1	17.02	18.00	1.253	99.5	1.005	-0.04	0.272	0.343
	2.4GHz WLAN	802.11b 1Mbps	Top Side	5mm	Ant 6	Hotspot	11	2462	1	17.02	18.00	1.253	99.5	1.005	-0.07	0.287	0.361
	2.4GHz WLAN	802.11b 1Mbps	Bottom Side	5mm	Ant 6	Hotspot	11	2462	1	17.02	18.00	1.253	99.5	1.005	0.15	0.029	0.037
	5.2GHz WLAN	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Hotspot	42	5210	1	11.87	12.00	1.030	88.0	1.136	-0.01	0.264	0.309
66	5.2GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Hotspot	42	5210	1	11.87	12.00	1.030	88.0	1.136	-0.01	0.521	0.610
	5.2GHz WLAN	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 6	Hotspot	42	5210	1	11.87	12.00	1.030	88.0	1.136	-0.12	0.011	0.013
	5.2GHz WLAN	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6	Hotspot	42	5210	1	11.87	12.00	1.030	88.0	1.136	0.01	0.242	0.283
	5.2GHz WLAN	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6	Hotspot	42	5210	1	11.87	12.00	1.030	88.0	1.136	-0.07	0.493	0.577
	5.2GHz WLAN	802.11ac-VHT80 MCS0	Bottom Side	5mm	Ant 6	Hotspot	42	5210	1	11.87	12.00	1.030	88.0	1.136	-0.18	0.010	0.012
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Hotspot	155	5775	1	13.68	14.50	1.208	88.0	1.136	-0.12	0.272	0.373
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Hotspot	155	5775	1	13.68	14.50	1.208	88.0	1.136	0.04	0.481	0.660
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 6	Hotspot	155	5775	1	13.68	14.50	1.208	88.0	1.136	0.14	0.023	0.032
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6	Hotspot	155	5775	1	13.68	14.50	1.208	88.0	1.136	0.08	0.233	0.320
67	5.8GHz WLAN	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6	Hotspot	155	5775	1	13.68	14.50	1.208	88.0	1.136	-0.04	0.498	0.683
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6	Hotspot	155	5775	1	13.68	14.50	1.208	88.0	1.136	-0.04	0.498	0.683
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Bottom Side	5mm	Ant 6	Hotspot	155	5775	1	13.68	14.50	1.208	88.0	1.136	0.10	0.012	0.016



15.3 Body Worn Accessory SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
68	GSM850	-	-	-	-	GPRS 4 Tx slots	Front	5mm	Ant 0	ECI 3	189	836.4	1	25.48	26.40	1.236	-	-	-0.13	0.616	0.761
	GSM850	-	-	-	-	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI 3	189	836.4	1	25.48	26.40	1.236	-	-	0.00	1.040	1.285
	GSM850	-	-	-	-	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI 3	128	824.2	1	25.41	26.40	1.256	-	-	0.16	0.999	1.255
	GSM850	-	-	-	-	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI 3	251	848.8	1	25.27	26.40	1.297	-	-	0.06	0.872	1.131
	GSM850	-	-	-	-	GPRS 4 Tx slots	Front	19mm	Ant 0	ECI 4	189	836.4	1	28.08	29.50	1.387	-	-	0.11	0.121	0.168
	GSM850	-	-	-	-	GPRS 4 Tx slots	Back	25mm	Ant 0	ECI 4	189	836.4	1	28.08	29.50	1.387	-	-	0.06	0.073	0.101
	GSM850 Headset	-	-	-	-	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI 3	189	836.4	1	25.48	26.40	1.236	-	-	0.06	0.985	1.217
	GSM850	-	-	-	-	GPRS 4 Tx slots	Back	5mm	Ant 0	ECI 3	189	836.4	2	25.48	26.40	1.236	-	-	0.01	1.010	1.248
69	GSM1900	-	-	-	-	GPRS 2 Tx slots	Front	5mm	Ant 0	ECI 3	661	1880	1	28.55	29.50	1.245	-	-	0.11	0.661	0.823
	GSM1900	-	-	-	-	GPRS 2 Tx slots	Front	5mm	Ant 0	ECI 3	512	1850.2	1	28.41	29.50	1.285	-	-	0.06	0.588	0.756
	GSM1900	-	-	-	-	GPRS 2 Tx slots	Front	5mm	Ant 0	ECI 3	810	1909.8	1	28.52	29.50	1.253	-	-	-0.01	0.685	0.858
	GSM1900	-	-	-	-	GPRS 2 Tx slots	Back	5mm	Ant 0	ECI 3	661	1880	1	28.55	29.50	1.245	-	-	0.00	0.586	0.730
70	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 3	9400	1880	1	21.68	22.30	1.153	-	-	-0.01	1.100	1.268
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 3	9262	1852.4	1	21.65	22.30	1.161	-	-	-0.09	1.070	1.242
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 3	9538	1907.6	1	21.64	22.30	1.164	-	-	-0.18	1.000	1.164
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	9400	1880	1	21.68	22.30	1.153	-	-	-0.18	0.978	1.128
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	9262	1852.4	1	21.65	22.30	1.161	-	-	-0.07	1.070	1.242
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	9538	1907.6	1	21.64	22.30	1.164	-	-	0.03	0.983	1.144
	WCDMA II Headset	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 3	9400	1880	1	21.68	22.30	1.153	-	-	0.06	1.030	1.188
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	19mm	Ant 0	ECI 4	9400	1880	1	23.36	24.00	1.159	-	-	0.02	0.255	0.296
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	25mm	Ant 0	ECI 4	9400	1880	1	23.36	24.00	1.159	-	-	0.09	0.111	0.129
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 3	1413	1732.6	1	20.30	21.20	1.230	-	-	-0.02	0.875	1.076
71	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 3	1312	1712.4	1	20.21	21.20	1.256	-	-	-0.04	0.770	0.967
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 3	1513	1752.6	1	20.27	21.20	1.239	-	-	-0.10	0.925	1.146
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	1413	1732.6	1	20.30	21.20	1.230	-	-	0.09	1.000	1.230
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	1312	1712.4	1	20.21	21.20	1.256	-	-	-0.14	0.903	1.134
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	1513	1752.6	1	20.27	21.20	1.239	-	-	-0.01	1.040	1.289
	WCDMA IV Headset	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	1513	1752.6	1	20.27	21.20	1.239	-	-	0.06	1.000	1.239
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	19mm	Ant 0	ECI 4	1413	1732.6	1	23.15	24.00	1.216	-	-	0.04	0.299	0.364
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	25mm	Ant 0	ECI 4	1413	1732.6	1	23.15	24.00	1.216	-	-	-0.13	0.049	0.060
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 3	4182	836.4	1	23.34	24.00	1.164	-	-	-0.14	0.554	0.645
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	4182	836.4	1	23.34	24.00	1.164	-	-	-0.15	1.040	1.211
72	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	4132	826.4	1	23.33	24.00	1.167	-	-	-0.01	1.050	1.225
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	4233	846.6	1	23.20	24.00	1.202	-	-	0.16	0.919	1.105
	WCDMA V Headset	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 3	4132	826.4	1	23.33	24.00	1.167	-	-	0.06	1.010	1.179



FCC SAR Test Report

Report No. : FA672115

Plot No	Band	BW	Modulation	RB Size	RB Offset	PA	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 3	21100	2535	1	19.74	20.60	1.219	-	-	-0.15	0.906	1.104
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 3	20850	2510	1	19.70	20.60	1.230	-	-	-0.16	0.901	1.108
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 3	21350	2560	1	19.68	20.60	1.236	-	-	-0.01	0.882	1.090
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 3	21100	2535	1	19.68	20.60	1.236	-	-	-0.08	0.703	0.869
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 3	20850	2510	1	19.62	20.60	1.253	-	-	-0.13	0.728	0.912
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 3	21350	2560	1	19.65	20.60	1.245	-	-	0.02	0.683	0.850
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 1	ECI 3	21100	2535	1	19.62	20.60	1.253	-	-	-0.06	0.703	0.881
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	21100	2535	1	19.74	20.60	1.219	-	-	-0.03	1.040	1.268
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	20850	2510	1	19.70	20.60	1.230	-	-	-0.09	1.000	1.230
73	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	21350	2560	1	19.68	20.60	1.236	-	-	-0.04	1.040	1.285
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 3	21100	2535	1	19.68	20.60	1.236	-	-	-0.04	0.802	0.991
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 3	20850	2510	1	19.62	20.60	1.253	-	-	0.05	0.832	1.042
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 3	21350	2560	1	19.65	20.60	1.245	-	-	-0.04	0.778	0.969
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	ECI 3	21100	2535	1	19.62	20.60	1.253	-	-	0.11	0.797	0.999
	LTE Band 7 Headset	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	21350	2560	1	19.68	20.60	1.236	-	-	0.05	0.986	1.219
	LTE Band 7	20M	QPSK	1	0	-	Front	19mm	Ant 1	ECI 4	21100	2535	1	22.68	24.00	1.355	-	-	-0.09	0.242	0.328
	LTE Band 7	20M	QPSK	1	0	-	Back	25mm	Ant 1	ECI 4	21100	2535	1	22.68	24.00	1.355	-	-	0.17	0.172	0.233
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 3	23095	707.5	1	22.59	24.00	1.384	-	-	-0.03	0.251	0.347
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 4	ECI 3	23095	707.5	1	21.50	23.00	1.413	-	-	0.11	0.188	0.266
74	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 3	23095	707.5	1	22.59	24.00	1.384	-	-	-0.01	0.598	0.828
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 4	ECI 3	23095	707.5	1	21.50	23.00	1.413	-	-	0.18	0.404	0.571
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 3	23095	707.5	1	21.36	23.00	1.459	-	-	0.08	0.423	0.617
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 3	23095	707.5	1	22.99	24.00	1.262	-	-	-0.14	0.288	0.363
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 3	23095	707.5	1	21.89	23.00	1.291	-	-	0.19	0.232	0.300
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 3	23095	707.5	1	22.99	24.00	1.262	-	-	-0.01	0.429	0.541
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 3	23095	707.5	1	21.89	23.00	1.291	-	-	-0.07	0.327	0.422
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 3	23230	782	1	22.51	24.00	1.409	-	-	-0.09	0.302	0.426
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 4	ECI 3	23230	782	1	21.46	23.00	1.426	-	-	-0.11	0.238	0.339
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 3	23230	782	1	22.51	24.00	1.409	-	-	0.01	0.623	0.878
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 4	ECI 3	23230	782	1	21.46	23.00	1.426	-	-	0.09	0.457	0.652
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 3	23230	782	1	21.49	23.00	1.416	-	-	0.15	0.473	0.670
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 3	23230	782	1	22.95	24.00	1.274	-	-	0.18	0.612	0.780
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 3	23230	782	1	21.90	23.00	1.288	-	-	0.03	0.489	0.630
75	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 3	23230	782	1	22.95	24.00	1.274	-	-	-0.02	0.999	1.273
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 3	23230	782	1	21.90	23.00	1.288	-	-	-0.05	0.804	1.036
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 3	23230	782	1	21.90	23.00	1.288	-	-	-0.01	0.811	1.045
	LTE Band 13 Headset	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 3	23230	782	1	22.95	24.00	1.274	-	-	0.06	0.962	1.226
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 3	23330	793	1	23.01	24.00	1.256	-	-	-0.16	0.253	0.318
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 4	ECI 3	23330	793	1	21.91	23.00	1.285	-	-	0.07	0.208	0.267
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 3	23330	793	1	23.01	24.00	1.256	-	-	-0.02	0.636	0.799
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 4	ECI 3	23330	793	1	21.91	23.00	1.285	-	-	-0.12	0.521	0.669
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 3	23330	793	1	23.01	24.00	1.256	-	-	0.12	0.651	0.818
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 3	23330	793	1	21.93	23.00	1.279	-	-	0.00	0.495	0.633
	LTE Band 14	10M	QPSK	50	0	-	Front	5mm	Ant 0	ECI 3	23330	793	1	21.96	23.00	1.271	-	-	-0.13	0.508	0.646
76	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 3	23330	793	1	23.01	24.00	1.256	-	-	-0.01	0.998	1.253
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 3	23330	793	1	21.93	23.00	1.279	-	-	-0.17	0.781	0.999
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 3	23330	793	1	21.96	23.00	1.271	-	-	0.05	0.797	1.013
	LTE Band 14 Headset	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 3	23330	793	1	23.01	24.00	1.256	-	-	0.06	0.944	1.186
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	5mm	Ant 4	ECI 3	26340	1880	1	19.53	21.00	1.403	-	-	-0.09	0.422	0.592
	LTE Band 25	20M	QPSK	50	0	Main PA	Front	5mm	Ant 4	ECI 3	26340	1880	1	19.48	21.00	1.419	-	-	0.14	0.354	0.502
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	5mm	Ant 4	ECI 3	26340	1880	1	19.53	21.00	1.403	-	-	0.04	0.571	0.801
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	5mm	Ant 4	ECI 3	26140	1860	1	19.49	21.00	1.416	-	-	-0.01	0.626	0.886



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	LTE Band 25	20M	QPSK	1	0	Main PA	Back	5mm	Ant 4	ECI 3	26590	1905	1	19.37	21.00	1.455	-	-	-0.09	0.538	0.783
	LTE Band 25	20M	QPSK	50	0	Main PA	Back	5mm	Ant 4	ECI 3	26340	1880	1	19.48	21.00	1.419	-	-	0.02	0.438	0.622
	LTE Band 25	20M	QPSK	100	0	Main PA	Back	5mm	Ant 4	ECI 3	26340	1880	1	19.36	21.00	1.459	-	-	-0.05	0.428	0.624
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	19mm	Ant 4	ECI 4	26340	1880	1	22.85	24.00	1.303	-	-	-0.06	0.218	0.284
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	25mm	Ant 4	ECI 4	26340	1880	1	22.85	24.00	1.303	-	-	0.08	0.050	0.065
	LTE Band 2	20M	QPSK	1	0	PA (Reference Designator)	Back	5mm	Ant 4	ECI 3	18700	1860	1	20.62	21.00	1.091	-	-	0.06	0.803	0.876
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	5mm	Ant 0	ECI 3	26340	1880	1	21.25	22.50	1.334	-	-	0.12	0.921	1.229
77	LTE Band 25	20M	QPSK	1	0	Main PA	Front	5mm	Ant 0	ECI 3	26140	1860	1	21.19	22.50	1.352	-	-	-0.11	0.944	1.276
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	5mm	Ant 0	ECI 3	26590	1905	1	21.14	22.50	1.368	-	-	0.13	0.865	1.183
	LTE Band 25	20M	QPSK	50	0	Main PA	Front	5mm	Ant 0	ECI 3	26340	1880	1	21.15	22.50	1.365	-	-	-0.12	0.734	1.002
	LTE Band 25	20M	QPSK	50	0	Main PA	Front	5mm	Ant 0	ECI 3	26140	1860	1	21.09	22.50	1.384	-	-	0.14	0.790	1.093
	LTE Band 25	20M	QPSK	50	0	Main PA	Front	5mm	Ant 0	ECI 3	26590	1905	1	21.02	22.50	1.406	-	-	-0.04	0.724	1.018
	LTE Band 25	20M	QPSK	100	0	Main PA	Front	5mm	Ant 0	ECI 3	26340	1880	1	21.21	22.50	1.346	-	-	0.02	0.724	0.975
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	5mm	Ant 0	ECI 3	26340	1880	1	21.25	22.50	1.334	-	-	-0.19	0.827	1.103
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	5mm	Ant 0	ECI 3	26140	1860	1	21.19	22.50	1.352	-	-	0.01	0.921	1.245
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	5mm	Ant 0	ECI 3	26590	1905	1	21.14	22.50	1.368	-	-	0.10	0.865	1.183
	LTE Band 25	20M	QPSK	50	0	Main PA	Back	5mm	Ant 0	ECI 3	26340	1880	1	21.15	22.50	1.365	-	-	-0.16	0.720	0.983
	LTE Band 25	20M	QPSK	50	0	Main PA	Back	5mm	Ant 0	ECI 3	26140	1860	1	21.09	22.50	1.384	-	-	-0.02	0.790	1.093
	LTE Band 25	20M	QPSK	50	0	Main PA	Back	5mm	Ant 0	ECI 3	26590	1905	1	21.02	22.50	1.406	-	-	-0.02	0.673	0.946
	LTE Band 25	20M	QPSK	100	0	Main PA	Back	5mm	Ant 0	ECI 3	26340	1880	1	21.21	22.50	1.346	-	-	0.18	0.678	0.913
	LTE Band 25 Headset	20M	QPSK	1	0	Main PA	Front	5mm	Ant 0	ECI 3	26140	1860	1	21.19	22.50	1.352	-	-	0.06	0.896	1.211
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	19mm	Ant 0	ECI 4	26340	1880	1	22.95	24.00	1.274	-	-	-0.04	0.283	0.361
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	25mm	Ant 0	ECI 4	26340	1880	1	22.95	24.00	1.274	-	-	0.07	0.137	0.175
	LTE Band 2	20M	QPSK	1	0	PA (Reference Designator)	Front	5mm	Ant 0	ECI 3	18700	1860	1	21.45	22.50	1.274	-	-	0.01	0.947	1.206
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 3	26865	831.5	1	21.58	23.20	1.452	-	-	-0.18	0.273	0.396
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 4	ECI 3	26865	831.5	1	21.50	23.00	1.413	-	-	0.05	0.217	0.307
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 3	26865	831.5	1	21.58	23.20	1.452	-	-	-0.01	0.607	0.881
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 4	ECI 3	26865	831.5	1	21.50	23.00	1.413	-	-	-0.08	0.450	0.636
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 4	ECI 3	26865	831.5	1	21.52	23.00	1.406	-	-	0.13	0.487	0.685
	LTE Band 26	15M	QPSK	1	0	-	Front	19mm	Ant 4	ECI 4	26865	831.5	1	22.65	24.00	1.365	-	-	0.06	0.060	0.082
	LTE Band 26	15M	QPSK	1	0	-	Back	25mm	Ant 4	ECI 4	26865	831.5	1	22.65	24.00	1.365	-	-	0.17	0.067	0.091
	LTE Band 5B	10M+10M	QPSK	1	49	-	Back	5mm	Ant 4	ECI 3	20476+20575	831.6+841.5	1	21.38	23.20	1.521	-	-	0.06	0.545	0.829
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 3	26865	831.5	1	22.96	24.00	1.271	-	-	-0.13	0.532	0.676
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	ECI 3	26865	831.5	1	21.88	23.00	1.294	-	-	0.03	0.401	0.519
78	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 3	26865	831.5	1	22.96	24.00	1.271	-	-	0.00	0.996	1.266
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	ECI 3	26865	831.5	1	21.88	23.00	1.294	-	-	0.06	0.744	0.963
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	ECI 3	26865	831.5	1	21.89	23.00	1.291	-	-	0.09	0.730	0.942
	LTE Band 5B	10M+10M	QPSK	1	49	-	Back	5mm	Ant 0	ECI 3	20476+20575	831.6+841.5	1	22.60	24.00	1.380	-	-	0.02	0.846	1.167
	LTE Band 26 Headset	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 3	26865	831.5	1	22.96	24.00	1.271	-	-	0.06	0.951	1.209
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 3	27710	2310	1	21.57	22.50	1.239	-	-	-0.11	0.749	0.928
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 1	ECI 3	27710	2310	1	21.50	22.50	1.259	-	-	-0.03	0.600	0.755
	LTE Band 30	10M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 3	27710	2310	1	21.52	22.50	1.253	-	-	0.06	0.605	0.758
79	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	27710	2310	1	21.57	22.50	1.239	-	-	-0.10	1.040	1.289
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 1	ECI 3	27710	2310	1	21.50	22.50	1.259	-	-	0.05	0.742	0.934
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 3	27710	2310	1	21.52	22.50	1.253	-	-	0.11	0.728	0.912
	LTE Band 30 Headset	10M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	27710	2310	1	21.57	22.50	1.239	-	-	0.05	0.988	1.224
	LTE Band 30	10M	QPSK	1	0	-	Front	19mm	Ant 1	ECI 4	27710	2310	1	22.68	24.00	1.355	-	-	0.18	0.113	0.153
	LTE Band 30	10M	QPSK	1	0	-	Back	25mm	Ant 1	ECI 4	27710	2310	1	22.68	24.00	1.355	-	-	0.12	0.070	0.095
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	27710	2310	2	21.57	22.50	1.239	-	-	-0.04	1.010	1.251
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	5mm	Ant 4	ECI 3	132322	1745	1	19.10	20.30	1.318	-	-	-0.15	0.351	0.463
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	5mm	Ant 4	ECI 3	132322	1745	1	19.06	20.30	1.330	-	-	0.16	0.305	0.406
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	5mm	Ant 4	ECI 3	132322	1745	1	19.10	20.30	1.318	-	-	-0.13	0.633	0.834
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	5mm	Ant 4	ECI 3	132072	1720	1	18.97	20.30	1.358	-	-	0.17	0.559	0.759
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	5mm	Ant 4	ECI 3	132572	1770	1	18.86	20.30	1.393	-	-	-0.01	0.634	0.883



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	LTE Band 66	20M	QPSK	100	0	Main PA	Back	5mm	Ant 4	ECI 3	132322	1745	1	18.90	20.30	1.380	-	-	0.09	0.442	0.610
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	5mm	Ant 4	ECI 3	132322	1745	1	19.06	20.30	1.330	-	-	-0.13	0.415	0.552
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Back	5mm	Ant 4	ECI 3	132572	1770	1	20.22	20.30	1.019	-	-	-0.18	0.845	0.861
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	19mm	Ant 4	ECI 4	132322	1745	1	22.36	24.00	1.459	-	-	-0.07	0.200	0.292
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	25mm	Ant 4	ECI 4	132322	1745	1	22.36	24.00	1.459	-	-	-0.18	0.051	0.074
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	5mm	Ant 0	ECI 3	132322	1745	1	20.24	21.50	1.337	-	-	0.16	0.887	1.186
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	5mm	Ant 0	ECI 3	132072	1720	1	20.15	21.50	1.365	-	-	-0.09	0.738	1.007
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	5mm	Ant 0	ECI 3	132572	1770	1	20.18	21.50	1.355	-	-	-0.04	0.891	1.207
	LTE Band 66	20M	QPSK	100	0	Main PA	Front	5mm	Ant 0	ECI 3	132322	1745	1	20.18	21.50	1.355	-	-	0.16	0.670	0.908
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	5mm	Ant 0	ECI 3	132322	1745	1	20.15	21.50	1.365	-	-	0.00	0.679	0.927
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	5mm	Ant 0	ECI 3	132072	1720	1	20.12	21.50	1.374	-	-	-0.06	0.590	0.811
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	5mm	Ant 0	ECI 3	132572	1770	1	20.11	21.50	1.377	-	-	-0.13	0.700	0.964
80	LTE Band 66	20M	QPSK	1	0	Main PA	Back	5mm	Ant 0	ECI 3	132322	1745	1	20.24	21.50	1.337	-	-	0.01	0.963	1.288
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	5mm	Ant 0	ECI 3	132072	1720	1	20.15	21.50	1.365	-	-	-0.15	0.870	1.188
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	5mm	Ant 0	ECI 3	132572	1770	1	20.18	21.50	1.355	-	-	-0.09	0.916	1.241
	LTE Band 66	20M	QPSK	100	0	Main PA	Back	5mm	Ant 0	ECI 3	132322	1745	1	20.18	21.50	1.355	-	-	0.00	0.764	1.035
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	5mm	Ant 0	ECI 3	132322	1745	1	20.15	21.50	1.365	-	-	0.06	0.781	1.066
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	5mm	Ant 0	ECI 3	132072	1720	1	20.12	21.50	1.374	-	-	0.08	0.725	0.996
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	5mm	Ant 0	ECI 3	132572	1770	1	20.11	21.50	1.377	-	-	-0.06	0.742	1.022
	LTE Band 66 Headset	20M	QPSK	1	0	Main PA	Back	5mm	Ant 0	ECI 3	132322	1745	1	20.24	21.50	1.337	-	-	0.06	0.934	1.249
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Back	5mm	Ant 0	ECI 3	132322	1745	1	20.66	21.50	1.213	-	-	0.09	1.050	1.274
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Back	5mm	Ant 0	ECI 3	132322	1745	1	21.38	21.50	1.028	-	-	0.05	1.110	1.141
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	19mm	Ant 0	ECI 4	132322	1745	1	22.98	24.00	1.265	-	-	-0.18	0.299	0.378
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	25mm	Ant 0	ECI 4	132322	1745	1	22.98	24.00	1.265	-	-	-0.18	0.161	0.204
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 3	133297	680.5	1	22.66	24.00	1.361	-	-	-0.08	0.305	0.415
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 3	133297	680.5	1	21.62	23.00	1.374	-	-	0.06	0.222	0.305
81	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 3	133297	680.5	1	22.66	24.00	1.361	-	-	-0.09	0.630	0.857
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 3	133297	680.5	1	21.62	23.00	1.374	-	-	-0.14	0.552	0.758
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 4	ECI 3	133297	680.5	1	21.55	23.00	1.396	-	-	0.10	0.543	0.758
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 3	133297	680.5	1	22.95	24.00	1.274	-	-	0.17	0.246	0.313
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	ECI 3	133297	680.5	1	21.92	23.00	1.282	-	-	-0.11	0.185	0.237
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 3	133297	680.5	1	22.95	24.00	1.274	-	-	-0.02	0.346	0.441
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 3	133297	680.5	1	21.92	23.00	1.282	-	-	-0.16	0.282	0.362
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 3	40620	2593	1	22.65	24.00	1.365	62.9	1.006	0.11	0.542	0.744
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 3	39750	2506	1	22.42	24.00	1.439	62.9	1.006	-0.16	0.516	0.747
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 3	40185	2549.5	1	22.53	24.00	1.403	62.9	1.006	-0.16	0.534	0.754
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 3	41055	2636.5	1	22.52	24.00	1.406	62.9	1.006	-0.01	0.542	0.767
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 3	41490	2680	1	22.64	24.00	1.368	62.9	1.006	-0.09	0.496	0.683
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 3	40620	2593	1	21.51	23.00	1.409	62.9	1.006	0.12	0.417	0.591
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	40620	2593	1	22.65	24.00	1.365	62.9	1.006	0.00	0.667	0.916
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	39750	2506	1	22.42	24.00	1.439	62.9	1.006	0.06	0.629	0.911
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	40185	2549.5	1	22.53	24.00	1.403	62.9	1.006	-0.07	0.694	0.980
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	41055	2636.5	1	22.52	24.00	1.406	62.9	1.006	-0.02	0.836	1.182
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	41490	2680	1	22.64	24.00	1.368	62.9	1.006	-0.14	0.694	0.955
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	ECI 3	40620	2593	1	21.46	23.00	1.426	62.9	1.006	0.15	0.591	0.848
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 3	40620	2593	1	21.51	23.00	1.409	62.9	1.006	0.10	0.586	0.831
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 3	39750	2506	1	21.38	23.00	1.452	62.9	1.006	0.17	0.490	0.716
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 3	40185	2549.5	1	21.40	23.00	1.445	62.9	1.006	0.00	0.507	0.737
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 3	41055	2636.5	1	21.45	23.00	1.429	62.9	1.006	0.17	0.535	0.769
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 3	41490	2680	1	21.46	23.00	1.426	62.9	1.006	-0.02	0.397	0.570
	LTE Band 41	20M	QPSK	1	0	-	Front	19mm	Ant 1	ECI 4	40620	2593	1	22.65	24.00	1.365	62.9	1.006	0.12	0.127	0.174
	LTE Band 41	20M	QPSK	1	0	-	Back	25mm	Ant 1	ECI 4	40620	2593	1	22.65	24.00	1.365	62.9	1.006	0.03	0.102	0.140
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	40620	2593	1	24.41	25.60	1.315	42.9	1.009	0.03	0.912	1.210
	LTE Band 41 HPUE	20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 3	39750	2506	1	24.26	25.60	1.361	42.9	1.009	0.00	0.895	1.229



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	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	40185	2549.5	1	24.28	25.60	1.355	42.9	1.009	0.01	0.834	1.140
82	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	41055	2636.5	1	24.30	25.60	1.349	42.9	1.009	0.03	0.933	1.270
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	41490	2680	1	24.39	25.60	1.321	42.9	1.009	0.01	0.865	1.153
	LTE Band 41 HPUE Headset	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	41055	2636.5	1	24.30	25.60	1.349	42.9	1.009	0.06	0.901	1.226
	LTE Band 41C	20M+20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	41490+41292	2680+2660.2	1	22.60	24.00	1.380	62.9	1.006	0.06	0.685	0.951
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 3	39750+39948	2506+2525.8	1	22.56	24.00	1.393	62.9	1.006	0.06	0.622	0.872
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 3	40185+40383	2549.5+2569.3	1	22.47	24.00	1.422	62.9	1.006	0.02	0.596	0.853
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 3	40620+40818	2593+2612.8	1	22.45	24.00	1.429	62.9	1.006	0.06	0.644	0.926
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 3	41055+41253	2636.5+2656.3	1	22.44	24.00	1.432	62.9	1.006	0.01	0.600	0.864
	LTE Band 41C HPUE	20M+20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	41490+41292	2680+2660.2	1	24.30	25.60	1.349	42.9	1.009	0.06	0.654	0.890
	LTE Band 41C HPUE	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 3	39750+39948	2506+2525.8	1	24.19	25.60	1.384	42.9	1.009	0.02	0.613	0.856
	LTE Band 41C HPUE	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 3	40185+40383	2549.5+2569.3	1	24.22	25.60	1.374	42.9	1.009	0.04	0.685	0.950
	LTE Band 41C HPUE	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 3	40620+40818	2593+2612.8	1	24.35	25.60	1.334	42.9	1.009	0.06	0.629	0.847
	LTE Band 41C HPUE	20M+20M	QPSK	1	99	-	Back	5mm	Ant 1	ECI 3	41055+41253	2636.5+2656.3	1	24.26	25.60	1.361	42.9	1.009	0.09	0.634	0.871
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 5	ECI 3	55830	3609	1	20.06	21.50	1.393	62.9	1.006	0.18	0.296	0.415
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 5	ECI 3	55830	3609	1	20.05	21.50	1.396	62.9	1.006	0.18	0.279	0.392
83	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 5	ECI 3	55830	3609	1	20.06	21.50	1.393	62.9	1.006	0.00	0.579	0.811
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	ECI 3	55830	3609	1	20.05	21.50	1.396	62.9	1.006	0.13	0.468	0.657
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	ECI 3	55340	3560	1	19.72	21.50	1.507	62.9	1.006	-0.18	0.347	0.526
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	ECI 3	56150	3641	1	19.97	21.50	1.422	62.9	1.006	-0.06	0.465	0.665
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 5	ECI 3	56640	3690	1	20.01	21.50	1.409	62.9	1.006	-0.02	0.524	0.743
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 5	ECI 3	55830	3609	1	19.92	21.50	1.439	62.9	1.006	-0.11	0.361	0.523
	LTE Band 48	20M	QPSK	1	0	-	Front	19mm	Ant 5	ECI 4	55830	3609	1	22.82	24.00	1.312	62.9	1.006	0.05	0.096	0.127
	LTE Band 48	20M	QPSK	1	0	-	Back	25mm	Ant 5	ECI 4	55830	3609	1	22.82	24.00	1.312	62.9	1.006	0.11	0.206	0.272
	LTE Band 48C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 5	ECI 3	55830+56028	3609+3628.8	1	16.89	18.00	1.291	62.9	1.006	0.01	0.259	0.336
	LTE Band 48C	20M+20M	QPSK	1	0	-	Back	5mm	Ant 5	ECI 3	56640+56442	3690+3670.2	1	16.81	18.00	1.315	62.9	1.006	0.06	0.266	0.352
	LTE Band 48C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 5	ECI 3	55340+55538	3560+3579.8	1	16.64	18.00	1.368	62.9	1.006	0.09	0.241	0.332
	LTE Band 48C	20M+20M	QPSK	1	99	-	Back	5mm	Ant 5	ECI 3	56150+56348	3641+3660.8	1	16.50	18.00	1.413	62.9	1.006	-0.10	0.269	0.382
	FR1 n7	50M	BPSK	1	1	-	Front	5mm	Ant 1	ECI 3	507000	2535	1	20.19	21.30	1.291	-	-	-0.08	0.842	1.087
	FR1 n7	50M	BPSK	135	68	-	Front	5mm	Ant 1	ECI 3	507000	2535	1	20.15	21.30	1.303	-	-	-0.19	0.806	1.050
	FR1 n7	50M	BPSK	270	0	-	Front	5mm	Ant 1	ECI 3	507000	2535	1	20.11	21.30	1.315	-	-	0.15	0.782	1.028
	FR1 n7	50M	BPSK	1	1	-	Back	5mm	Ant 1	ECI 3	507000	2535	1	20.19	21.30	1.291	-	-	0.12	0.961	1.241
84	FR1 n7	50M	BPSK	135	68	-	Back	5mm	Ant 1	ECI 3	507000	2535	1	20.15	21.30	1.303	-	-	0.01	0.973	1.268
	FR1 n7	50M	BPSK	270	0	-	Back	5mm	Ant 1	ECI 3	507000	2535	1	20.11	21.30	1.315	-	-	-0.02	0.883	1.161
	FR1 n7 Headset	50M	BPSK	135	68	-	Back	5mm	Ant 1	ECI 3	507000	2535	1	20.15	21.30	1.303	-	-	0.06	0.934	1.217
	FR1 n7	50M	BPSK	1	1	-	Front	19mm	Ant 1	ECI 4	507000	2535	1	23.10	24.00	1.230	-	-	0.11	0.204	0.251
	FR1 n7	50M	BPSK	1	1	-	Back	25mm	Ant 1	ECI 4	507000	2535	1	23.10	24.00	1.230	-	-	0.06	0.145	0.178
	FR1 n7	50M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 3	507000	2535	1	15.21	16.90	1.476	-	-	0.15	0.277	0.409
	FR1 n7	50M	BPSK	135	68	-	Front	5mm	Ant 4	ECI 3	507000	2535	1	15.19	16.90	1.483	-	-	-0.07	0.242	0.359
	FR1 n7	50M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 3	507000	2535	1	15.21	16.90	1.476	-	-	-0.02	0.598	0.883
	FR1 n7	50M	BPSK	135	68	-	Back	5mm	Ant 4	ECI 3	507000	2535	1	15.19	16.90	1.483	-	-	0.13	0.579	0.859
	FR1 n7	50M	BPSK	270	0	-	Back	5mm	Ant 4	ECI 3	507000	2535	1	15.12	16.90	1.507	-	-	0.12	0.489	0.737
	FR1 n7	50M	BPSK	1	1	-	Front	19mm	Ant 4	ECI 4	507000	2535	1	23.09	24.00	1.233	-	-	0.11	0.214	0.264
	FR1 n7	50M	BPSK	1	1	-	Back	25mm	Ant 4	ECI 4	507000	2535	1	23.09	24.00	1.233	-	-	0.06	0.221	0.272
	FR1 n12	15M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 3	141500	707.5	1	22.70	23.90	1.318	-	-	0.18	0.272	0.358
	FR1 n12	15M	BPSK	36	22	-	Front	5mm	Ant 4	ECI 3	141500	707.5	1	22.56	23.90	1.361	-	-	-0.10	0.284	0.387
85	FR1 n12	15M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 3	141500	707.5	1	22.70	23.90	1.318	-	-	-0.03	0.672	0.886
	FR1 n12	15M	BPSK	36	22	-	Back	5mm	Ant 4	ECI 3	141500	707.5	1	22.56	23.90	1.361	-	-	-0.10	0.619	0.842
	FR1 n12	15M	BPSK	75	0	-	Back	5mm	Ant 4	ECI 3	141500	707.5	1	22.11	23.50	1.377	-	-	-0.08	0.580	0.799



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	FR1 n12	15M	BPSK	1	1	-	Front	19mm	Ant 4	ECI 4	141500	707.5	1	22.70	24.00	1.349	-	-	0.06	0.262	0.353
	FR1 n12	15M	BPSK	36	22	-	Front	19mm	Ant 4	ECI 4	141500	707.5	1	22.56	24.00	1.393	-	-	0.02	0.231	0.322
	FR1 n12	15M	BPSK	1	1	-	Back	25mm	Ant 4	ECI 4	141500	707.5	1	22.70	24.00	1.349	-	-	0.05	0.174	0.235
	FR1 n12	15M	BPSK	36	22	-	Back	25mm	Ant 4	ECI 4	141500	707.5	1	22.56	24.00	1.393	-	-	0.01	0.162	0.226
	FR1 n12	15M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 3	141500	707.5	2	22.70	23.90	1.318	-	-	0.01	0.624	0.822
	FR1 n12	15M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 3	141500	707.5	1	23.13	24.00	1.222	-	-	-0.17	0.219	0.268
	FR1 n12	15M	BPSK	36	22	-	Front	5mm	Ant 0	ECI 3	141500	707.5	1	22.99	24.00	1.262	-	-	0.14	0.222	0.280
	FR1 n12	15M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 3	141500	707.5	1	23.13	24.00	1.222	-	-	-0.03	0.325	0.397
	FR1 n12	15M	BPSK	36	22	-	Back	5mm	Ant 0	ECI 3	141500	707.5	1	22.99	24.00	1.262	-	-	-0.02	0.334	0.422
	FR1 n13	10M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 3	156400	782	1	22.77	24.00	1.327	-	-	0.02	0.282	0.374
	FR1 n13	10M	BPSK	25	14	-	Front	5mm	Ant 4	ECI 3	156400	782	1	22.73	24.00	1.340	-	-	-0.17	0.259	0.347
	FR1 n13	10M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 3	156400	782	1	22.77	24.00	1.327	-	-	-0.01	0.593	0.787
	FR1 n13	10M	BPSK	25	14	-	Back	5mm	Ant 4	ECI 3	156400	782	1	22.73	24.00	1.340	-	-	0.18	0.563	0.754
	FR1 n13	10M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 3	156400	782	1	23.15	24.00	1.216	-	-	0.06	0.525	0.638
	FR1 n13	10M	BPSK	25	14	-	Front	5mm	Ant 0	ECI 3	156400	782	1	23.07	24.00	1.239	-	-	-0.16	0.518	0.642
86	FR1 n13	10M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 3	156400	782	1	23.15	24.00	1.216	-	-	-0.03	0.807	0.981
	FR1 n13	10M	BPSK	25	14	-	Back	5mm	Ant 0	ECI 3	156400	782	1	23.07	24.00	1.239	-	-	-0.11	0.783	0.970
	FR1 n13	10M	BPSK	50	0	-	Back	5mm	Ant 0	ECI 3	156400	782	1	22.56	23.50	1.242	-	-	-0.04	0.709	0.881
	FR1 n14	10M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 3	158600	793	1	23.15	24.00	1.216	-	-	-0.02	0.527	0.641
	FR1 n14	10M	BPSK	25	14	-	Front	5mm	Ant 0	ECI 3	158600	793	1	23.07	24.00	1.239	-	-	-0.05	0.502	0.622
87	FR1 n14	10M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 3	158600	793	1	23.15	24.00	1.216	-	-	-0.03	0.776	0.944
	FR1 n14	10M	BPSK	25	14	-	Back	5mm	Ant 0	ECI 3	158600	793	1	23.07	24.00	1.239	-	-	-0.03	0.758	0.939
	FR1 n14	10M	BPSK	50	0	-	Back	5mm	Ant 0	ECI 3	158600	793	1	22.59	23.50	1.233	-	-	-0.03	0.718	0.885
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Front	5mm	Ant 4	ECI 3	376500	1882.5	1	20.78	21.00	1.052	-	-	0.09	0.608	0.640
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Front	5mm	Ant 4	ECI 3	376500	1882.5	1	20.75	21.00	1.059	-	-	-0.13	0.644	0.682
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Back	5mm	Ant 4	ECI 3	376500	1882.5	1	20.78	21.00	1.052	-	-	0.11	0.762	0.802
	FR1 n25	40M	BPSK	216	0	PA (Reference Designator)	Back	5mm	Ant 4	ECI 3	376500	1882.5	1	20.76	21.00	1.057	-	-	-0.11	0.775	0.819
88	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Back	5mm	Ant 4	ECI 3	376500	1882.5	1	20.75	21.00	1.059	-	-	-0.02	0.842	0.892
	FR1 n25	40M	BPSK	108	54	Main PA	Back	5mm	Ant 4	ECI 3	376500	1882.5	1	20.38	21.00	1.153	-	-	0.11	0.744	0.858
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Front	19mm	Ant 4	ECI 4	376500	1882.5	1	22.85	24.00	1.303	-	-	0.05	0.157	0.205
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Back	25mm	Ant 4	ECI 4	376500	1882.5	1	22.85	24.00	1.303	-	-	-0.01	0.107	0.139
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Back	5mm	Ant 4	ECI 3	376500	1882.5	2	20.75	21.00	1.059	-	-	0.05	0.811	0.859
	FR1 n25	40M	BPSK	1	1	Main PA	Front	5mm	Ant 0	ECI 3	376500	1882.5	1	21.47	22.30	1.211	-	-	0.08	0.819	0.992
	FR1 n25	40M	BPSK	216	0	Main PA	Front	5mm	Ant 0	ECI 3	376500	1882.5	1	21.41	22.30	1.227	-	-	0.11	0.711	0.872
	FR1 n25	40M	BPSK	108	54	Main PA	Front	5mm	Ant 0	ECI 3	376500	1882.5	1	21.44	22.30	1.219	-	-	-0.14	0.801	0.976
	FR1 n25	40M	BPSK	1	1	Main PA	Back	5mm	Ant 0	ECI 3	376500	1882.5	1	21.47	22.30	1.211	-	-	-0.19	0.795	0.963
	FR1 n25	40M	BPSK	216	0	Main PA	Back	5mm	Ant 0	ECI 3	376500	1882.5	1	21.41	22.30	1.227	-	-	-0.06	0.688	0.844
	FR1 n25	40M	BPSK	108	54	Main PA	Back	5mm	Ant 0	ECI 3	376500	1882.5	1	21.44	22.30	1.219	-	-	0.13	0.777	0.947
	FR1 n25	40M	BPSK	1	1	Main PA	Front	19mm	Ant 0	ECI 4	376500	1882.5	1	23.05	24.00	1.245	-	-	-0.06	0.218	0.271
	FR1 n25	40M	BPSK	1	1	Main PA	Back	25mm	Ant 0	ECI 4	376500	1882.5	1	23.05	24.00	1.245	-	-	0.05	0.095	0.118
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Front	5mm	Ant 0	ECI 3	376500	1882.5	1	21.35	22.30	1.245	-	-	0.14	0.783	0.975
	FR1 n26	20M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 3	166300	831.5	1	21.33	22.50	1.309	-	-	-0.10	0.205	0.268
	FR1 n26	20M	BPSK	50	28	-	Front	5mm	Ant 4	ECI 3	166300	831.5	1	21.27	22.50	1.327	-	-	0.03	0.208	0.276
	FR1 n26	20M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 3	166300	831.5	1	21.33	22.50	1.309	-	-	-0.02	0.546	0.715
	FR1 n26	20M	BPSK	50	28	-	Back	5mm	Ant 4	ECI 3	166300	831.5	1	21.27	22.50	1.327	-	-	0.12	0.469	0.622
	FR1 n26	20M	BPSK	1	1	-	Front	19mm	Ant 4	ECI 4	166300	831.5	1	22.85	24.00	1.303	-	-	0.05	0.100	0.130
	FR1 n26	20M	BPSK	1	1	-	Back	25mm	Ant 4	ECI 4	166300	831.5	1	22.85	24.00	1.303	-	-	0.01	0.084	0.109
	FR1 n26	20M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 3	166300	831.5	1	23.15	24.00	1.216	-	-	0.16	0.508	0.618
	FR1 n26	20M	BPSK	50	28	-	Front	5mm	Ant 0	ECI 3	166300	831.5	1	23.10	24.00	1.230	-	-	-0.07	0.539	0.663
89	FR1 n26	20M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 3	166300	831.5	1	23.15	24.00	1.216	-	-	-0.01	1.000	1.216
	FR1 n26	20M	BPSK	50	28	-	Back	5mm	Ant 0	ECI 3	166300	831.5	1	23.10	24.00	1.230	-	-	-0.16	0.947	1.165
	FR1 n26	20M	BPSK	100	0	-	Back	5mm	Ant 0	ECI 3	166300	831.5	1	22.61	23.50	1.227	-	-	0.10	0.794	0.974
	FR1 n26 Headset	20M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 3	166300	831.5	1	23.15	24.00	1.216	-	-	0.06	0.938	1.141



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	FR1 n30	10M	BPSK	1	1	-	Front	5mm	Ant 1	ECI 3	462000	2310	1	21.16	22.50	1.361	-	-	0.18	0.634	0.863
	FR1 n30	10M	BPSK	25	14	-	Front	5mm	Ant 1	ECI 3	462000	2310	1	21.15	22.50	1.365	-	-	-0.01	0.647	0.883
	FR1 n30	10M	BPSK	50	0	-	Front	5mm	Ant 1	ECI 3	462000	2310	1	21.11	22.50	1.377	-	-	-0.12	0.601	0.828
	FR1 n30	10M	BPSK	1	1	-	Back	5mm	Ant 1	ECI 3	462000	2310	1	21.16	22.50	1.361	-	-	0.05	0.848	1.154
90	FR1 n30	10M	BPSK	25	14	-	Back	5mm	Ant 1	ECI 3	462000	2310	1	21.15	22.50	1.365	-	-	0.01	0.934	1.275
	FR1 n30	10M	BPSK	50	0	-	Back	5mm	Ant 1	ECI 3	462000	2310	1	21.11	22.50	1.377	-	-	0.02	0.756	1.041
	FR1 n30 Headset	10M	BPSK	25	14	-	Back	5mm	Ant 1	ECI 3	462000	2310	1	21.15	22.50	1.365	-	-	0.05	0.876	1.196
	FR1 n30	10M	BPSK	1	1	-	Front	19mm	Ant 1	ECI 4	462000	2310	1	23.15	24.00	1.216	-	-	0.01	0.099	0.120
	FR1 n30	10M	BPSK	1	1	-	Back	25mm	Ant 1	ECI 4	462000	2310	1	23.15	24.00	1.216	-	-	-0.01	0.093	0.113
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Front	5mm	Ant 4	ECI 3	349000	1745	1	20.38	21.00	1.153	-	-	0.07	0.385	0.444
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Front	5mm	Ant 4	ECI 3	349000	1745	1	20.34	21.00	1.164	-	-	-0.18	0.430	0.501
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Back	5mm	Ant 4	ECI 3	349000	1745	1	20.38	21.00	1.153	-	-	0.12	0.638	0.736
	FR1 n66	45M	BPSK	240	0	PA (Reference Designator)	Back	5mm	Ant 4	ECI 3	349000	1745	1	20.31	21.00	1.172	-	-	-0.18	0.576	0.675
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Back	5mm	Ant 4	ECI 3	349000	1745	1	20.34	21.00	1.164	-	-	-0.02	0.688	0.801
	FR1 n66	45M	BPSK	120	60	Main PA	Back	5mm	Ant 4	ECI 3	349000	1745	1	19.52	21.00	1.406	-	-	0.09	0.561	0.789
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Front	19mm	Ant 4	ECI 4	349000	1745	1	22.63	24.00	1.371	-	-	0.02	0.144	0.197
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Back	25mm	Ant 4	ECI 4	349000	1745	1	22.63	24.00	1.371	-	-	-0.05	0.100	0.137
	FR1 n66	45M	BPSK	1	1	Main PA	Front	5mm	Ant 0	ECI 3	349000	1745	1	20.30	21.40	1.288	-	-	0.17	0.849	1.094
	FR1 n66	45M	BPSK	120	60	Main PA	Front	5mm	Ant 0	ECI 3	349000	1745	1	20.27	21.40	1.297	-	-	0.00	0.874	1.134
	FR1 n66	45M	BPSK	240	0	Main PA	Front	5mm	Ant 0	ECI 3	349000	1745	1	20.21	21.40	1.315	-	-	-0.13	0.817	1.074
	FR1 n66	45M	BPSK	1	1	Main PA	Back	5mm	Ant 0	ECI 3	349000	1745	1	20.30	21.40	1.288	-	-	-0.06	0.925	1.191
91	FR1 n66	45M	BPSK	120	60	Main PA	Back	5mm	Ant 0	ECI 3	349000	1745	1	20.27	21.40	1.297	-	-	-0.01	0.988	1.281
	FR1 n66	45M	BPSK	240	0	Main PA	Back	5mm	Ant 0	ECI 3	349000	1745	1	20.21	21.40	1.315	-	-	0.07	0.861	1.132
	FR1 n66 Headset	45M	BPSK	120	60	Main PA	Back	5mm	Ant 0	ECI 3	349000	1745	1	20.27	21.40	1.297	-	-	0.06	0.935	1.213
	FR1 n66	45M	BPSK	1	1	Main PA	Front	19mm	Ant 0	ECI 4	349000	1745	1	23.10	24.00	1.230	-	-	0.06	0.227	0.279
	FR1 n66	45M	BPSK	1	1	Main PA	Back	25mm	Ant 0	ECI 4	349000	1745	1	23.10	24.00	1.230	-	-	0.11	0.107	0.132
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Back	5mm	Ant 0	ECI 3	349000	1745	1	20.46	21.40	1.242	-	-	0.12	0.887	1.102
	FR1 n70	15M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 3	340500	1702.5	1	20.50	21.60	1.288	-	-	-0.12	0.411	0.529
	FR1 n70	15M	BPSK	36	22	-	Front	5mm	Ant 4	ECI 3	340500	1702.5	1	20.49	21.60	1.291	-	-	0.07	0.438	0.565
	FR1 n70	15M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 3	340500	1702.5	1	20.50	21.60	1.288	-	-	0.09	0.608	0.783
	FR1 n70	15M	BPSK	36	22	-	Back	5mm	Ant 4	ECI 3	340500	1702.5	1	20.49	21.60	1.291	-	-	-0.01	0.685	0.884
	FR1 n70	15M	BPSK	75	0	-	Back	5mm	Ant 4	ECI 3	340500	1702.5	1	20.44	21.60	1.306	-	-	0.14	0.655	0.855
	FR1 n70	15M	BPSK	1	1	-	Front	19mm	Ant 4	ECI 4	340500	1702.5	1	21.99	23.00	1.262	-	-	0.02	0.131	0.165
	FR1 n70	15M	BPSK	1	1	-	Back	25mm	Ant 4	ECI 4	340500	1702.5	1	21.99	23.00	1.262	-	-	-0.05	0.091	0.115
	FR1 n70	15M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 3	340500	1702.5	1	20.92	22.10	1.312	-	-	0.02	0.727	0.954
	FR1 n70	15M	BPSK	36	22	-	Front	5mm	Ant 0	ECI 3	340500	1702.5	1	20.87	22.10	1.327	-	-	0.11	0.733	0.973
	FR1 n70	15M	BPSK	75	0	-	Front	5mm	Ant 0	ECI 3	340500	1702.5	1	20.85	22.10	1.334	-	-	0.15	0.638	0.851
	FR1 n70	15M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 3	340500	1702.5	1	20.92	22.10	1.312	-	-	0.09	0.912	1.197
92	FR1 n70	15M	BPSK	36	22	-	Back	5mm	Ant 0	ECI 3	340500	1702.5	1	20.87	22.10	1.327	-	-	0.00	0.969	1.286
	FR1 n70	15M	BPSK	75	0	-	Back	5mm	Ant 0	ECI 3	340500	1702.5	1	20.85	22.10	1.334	-	-	-0.12	0.854	1.139
	FR1 n70 Headset	15M	BPSK	36	22	-	Back	5mm	Ant 0	ECI 3	340500	1702.5	1	20.87	22.10	1.327	-	-	0.06	0.922	1.223
	FR1 n70	15M	BPSK	1	1	-	Front	19mm	Ant 0	ECI 4	340500	1702.5	1	23.01	24.00	1.256	-	-	0.02	0.184	0.231
	FR1 n70	15M	BPSK	1	1	-	Back	25mm	Ant 0	ECI 4	340500	1702.5	1	23.01	24.00	1.256	-	-	0.06	0.116	0.146
	FR1 n71	35M	BPSK	1	1	-	Front	5mm	Ant 4	ECI 3	136100	680.5	1	22.73	24.00	1.340	-	-	0.19	0.212	0.284
	FR1 n71	35M	BPSK	90	45	-	Front	5mm	Ant 4	ECI 3	136100	680.5	1	22.64	24.00	1.368	-	-	0.08	0.134	0.183
93	FR1 n71	35M	BPSK	1	1	-	Back	5mm	Ant 4	ECI 3	136100	680.5	1	22.73	24.00	1.340	-	-	-0.03	0.475	0.637
	FR1 n71	35M	BPSK	90	45	-	Back	5mm	Ant 4	ECI 3	136100	680.5	1	22.64	24.00	1.368	-	-	-0.16	0.234	0.320
	FR1 n71	35M	BPSK	1	1	-	Front	5mm	Ant 0	ECI 3	136100	680.5	1	23.12	24.00	1.225	-	-	0.10	0.224	0.274
	FR1 n71	35M	BPSK	90	45	-	Front	5mm	Ant 0	ECI 3	136100	680.5	1	23.10	24.00	1.230	-	-	-0.05	0.191	0.235
	FR1 n71	35M	BPSK	1	1	-	Back	5mm	Ant 0	ECI 3	136100	680.5	1	23.12	24.00	1.225	-	-	-0.02	0.325	0.398
	FR1 n71	35M	BPSK	90	45	-	Back	5mm	Ant 0	ECI 3	136100	680.5	1	23.10	24.00	1.230	-	-	0.11	0.276	0.339
	FR1 n41	100M	BPSK	1	1	-	Front	5mm	Ant 1	ECI 3	518598	2592.99	1	21.09	22.10	1.262	-	-	0.03	0.616	0.777
	FR1 n41	100M	BPSK	270	0	-	Front	5mm	Ant 1	ECI 3	518598	2592.99	1	21.03	22.10	1.279	-	-	-0.03	0.674	0.862



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	FR1 n41	100M	BPSK	135	69	-	Front	5mm	Ant 1	ECI 3	518598	2592.99	1	21.06	22.10	1.271	-	-	-0.03	0.638	0.811
	FR1 n41	100M	BPSK	1	1	-	Back	5mm	Ant 1	ECI 3	518598	2592.99	1	21.09	22.10	1.262	-	-	0.07	0.857	1.082
	FR1 n41	100M	BPSK	270	0	-	Back	5mm	Ant 1	ECI 3	518598	2592.99	1	21.03	22.10	1.279	-	-	-0.15	0.928	1.187
	FR1 n41	100M	BPSK	135	69	-	Back	5mm	Ant 1	ECI 3	518598	2592.99	1	21.06	22.10	1.271	-	-	0.05	0.955	1.214
94	FR1 n41 HPUE	100M	BPSK	135	69	-	Back	5mm	Ant 1	ECI 3	518598	2592.99	1	23.99	25.10	1.291	50.0	1.000	0.01	0.986	1.273
	FR1 n41 HPUE Headset	100M	BPSK	135	69	-	Back	5mm	Ant 1	ECI 3	518598	2592.99	1	23.99	25.10	1.291	50.0	1.000	0.06	0.922	1.190
	FR1 n41	100M	BPSK	1	1	-	Front	19mm	Ant 1	ECI 4	518598	2592.99	1	23.06	24.00	1.242	-	-	0.02	0.213	0.265
	FR1 n41	100M	BPSK	1	1	-	Back	25mm	Ant 1	ECI 4	518598	2592.99	1	23.06	24.00	1.242	-	-	0.06	0.143	0.178
	FR1 n41 HPUE	100M	BPSK	1	1	-	Front	19mm	Ant 1	ECI 4	518598	2592.99	1	25.79	27.00	1.321	-	-	0.05	0.201	0.266
	FR1 n41	100M	BPSK	1	1	Main PA	Front	5mm	Ant 2	ECI 3	518598	2592.99	1	17.26	18.00	1.186	-	-	0.12	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Main PA	Front	5mm	Ant 2	ECI 3	518598	2592.99	1	17.23	18.00	1.194	-	-	0.04	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Main PA	Back	5mm	Ant 2	ECI 3	518598	2592.99	1	17.26	18.00	1.186	-	-	-0.02	0.154	0.183
	FR1 n41	100M	BPSK	135	69	Main PA	Back	5mm	Ant 2	ECI 3	518598	2592.99	1	17.23	18.00	1.194	-	-	0.01	0.606	0.724
	FR1 n41 HPUE	100M	BPSK	135	69	Main PA	Back	5mm	Ant 2	ECI 3	518598	2592.99	1	20.07	21.00	1.239	50.0	1.000	0.09	0.537	0.665
	FR1 n41	100M	BPSK	135	69	PA (Reference Designator)	Back	5mm	Ant 2	ECI 3	518598	2592.99	1	17.11	18.00	1.227	-	-	-0.13	0.514	0.631
	FR1 n41	100M	BPSK	1	1	Main PA	Front	19mm	Ant 2	ECI 4	518598	2592.99	1	20.22	21.00	1.197	-	-	0.06	0.060	0.072
	FR1 n41	100M	BPSK	1	1	Main PA	Back	25mm	Ant 2	ECI 4	518598	2592.99	1	20.22	21.00	1.197	-	-	0.01	0.086	0.103
	FR1 n41 HPUE	100M	BPSK	1	1	Main PA	Back	25mm	Ant 2	ECI 4	518598	2592.99	1	23.03	24.00	1.250	-	-	0.09	0.081	0.101
	FR1 n41	100M	BPSK	135	69	Main PA	Back	5mm	Ant 2	ECI 3	518598	2592.99	2	17.23	18.00	1.194	-	-	0.06	0.588	0.702
	FR1 n41	100M	BPSK	1	1	Main PA	Front	5mm	Ant 4	ECI 3	518598	2592.99	1	15.46	17.20	1.493	-	-	-0.06	0.209	0.312
	FR1 n41	100M	BPSK	135	69	Main PA	Front	5mm	Ant 4	ECI 3	518598	2592.99	1	15.41	17.20	1.510	-	-	0.04	0.205	0.310
	FR1 n41	100M	BPSK	1	1	Main PA	Back	5mm	Ant 4	ECI 3	518598	2592.99	1	15.46	17.20	1.493	-	-	0.08	0.499	0.745
	FR1 n41	100M	BPSK	270	0	Main PA	Back	5mm	Ant 4	ECI 3	518598	2592.99	1	15.36	17.20	1.528	-	-	-0.01	0.561	0.857
	FR1 n41	100M	BPSK	135	69	Main PA	Back	5mm	Ant 4	ECI 3	518598	2592.99	1	15.41	17.20	1.510	-	-	0.12	0.552	0.834
	FR1 n41 HPUE	100M	BPSK	270	0	Main PA	Back	5mm	Ant 4	ECI 3	518598	2592.99	1	18.53	20.20	1.469	50.0	1.000	0.01	0.597	0.877
	FR1 n41 HPUE	100M	BPSK	270	0	PA (Reference Designator)	Back	5mm	Ant 4	ECI 3	518598	2592.99	1	18.47	20.20	1.489	-	-	-0.02	0.505	0.752
	FR1 n41	100M	BPSK	1	1	Main PA	Front	19mm	Ant 4	ECI 4	518598	2592.99	1	22.53	24.00	1.403	-	-	0.06	0.194	0.272
	FR1 n41	100M	BPSK	1	1	Main PA	Back	25mm	Ant 4	ECI 4	518598	2592.99	1	22.53	24.00	1.403	-	-	0.01	0.195	0.274
	FR1 n41 HPUE	100M	BPSK	1	1	Main PA	Back	25mm	Ant 4	ECI 4	518598	2592.99	1	25.45	27.00	1.429	-	-	0.01	0.188	0.269
	FR1 n41	100M	BPSK	1	1	-	Front	5mm	Ant 7	ECI 3	518598	2592.99	1	20.93	21.00	1.016	-	-	0.00	0.428	0.435
	FR1 n41	100M	BPSK	135	69	-	Front	5mm	Ant 7	ECI 3	518598	2592.99	1	20.65	21.00	1.084	-	-	0.15	0.355	0.385
	FR1 n41	100M	BPSK	1	1	-	Back	5mm	Ant 7	ECI 3	518598	2592.99	1	20.93	21.00	1.016	-	-	-0.14	0.408	0.415
	FR1 n41	100M	BPSK	135	69	-	Back	5mm	Ant 7	ECI 3	518598	2592.99	1	20.65	21.00	1.084	-	-	-0.16	0.266	0.288
	FR1 n41 HPUE	100M	BPSK	1	1	-	Front	5mm	Ant 7	ECI 3	518598	2592.99	1	23.68	24.00	1.076	50.0	1.000	-0.14	0.421	0.453
	FR1 n48	40M	BPSK	1	1	-	Front	5mm	Ant 1	ECI 3	641666	3624.99	1	18.60	19.00	1.096	-	-	0.03	0.146	0.160
	FR1 n48	40M	BPSK	50	28	-	Front	5mm	Ant 1	ECI 3	641666	3624.99	1	18.54	19.00	1.112	-	-	0.12	0.179	0.199
	FR1 n48	40M	BPSK	1	1	-	Back	5mm	Ant 1	ECI 3	641666	3624.99	1	18.60	19.00	1.096	-	-	0.09	0.206	0.226
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 1	ECI 3	641666	3624.99	1	18.54	19.00	1.112	-	-	-0.06	0.260	0.289
	FR1 n48	40M	BPSK	1	1	-	Front	5mm	Ant 3	ECI 3	641666	3624.99	1	18.80	20.00	1.318	-	-	0.10	0.216	0.285
	FR1 n48	40M	BPSK	50	28	-	Front	5mm	Ant 3	ECI 3	641666	3624.99	1	18.69	20.00	1.352	-	-	0.11	0.247	0.334
	FR1 n48	40M	BPSK	1	1	-	Back	5mm	Ant 3	ECI 3	641666	3624.99	1	18.80	20.00	1.318	-	-	0.00	0.306	0.403
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 3	ECI 3	641666	3624.99	1	18.69	20.00	1.352	-	-	-0.19	0.192	0.260
	FR1 n48	40M	BPSK	1	1	-	Front	5mm	Ant 5	ECI 3	641666	3624.99	1	18.71	19.50	1.199	-	-	0.05	0.269	0.323
	FR1 n48	40M	BPSK	50	28	-	Front	5mm	Ant 5	ECI 3	641666	3624.99	1	18.69	19.50	1.205	-	-	0.12	0.264	0.318
	FR1 n48	40M	BPSK	1	1	-	Back	5mm	Ant 5	ECI 3	641666	3624.99	1	18.71	19.50	1.199	-	-	-0.17	0.455	0.546
	FR1 n48	40M	BPSK	100	0	-	Back	5mm	Ant 5	ECI 3	641666	3624.99	1	18.66	19.50	1.213	-	-	-0.02	0.308	0.374
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 5	ECI 3	641666	3624.99	1	18.69	19.50	1.205	-	-	0.02	0.663	0.799
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 5	ECI 3	638000	3570	1	18.61	19.50	1.227	-	-	0.13	0.486	0.596
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 5	ECI 3	645332	3679.98	1	18.64	19.50	1.219	-	-	0.03	0.717	0.874
	FR1 n48	40M	BPSK	1	1	-	Front	19mm	Ant 5	ECI 4	641666	3624.99	1	22.97	24.00	1.268	-	-	0.02	0.304	0.385
	FR1 n48	40M	BPSK	1	1	-	Back	25mm	Ant 5	ECI 4	641666	3624.99	1	22.97	24.00	1.268	-	-	-0.04	0.137	0.174
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 5	ECI 3	645332	3679.98	2	18.64	19.50	1.219	-	-	0.06	0.706	0.861



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	FR1 n48	40M	BPSK	1	1	-	Front	5mm	Ant 8	ECI 3	641666	3624.99	1	13.82	14.70	1.225	-	-	0.15	0.044	0.054
	FR1 n48	40M	BPSK	50	28	-	Front	5mm	Ant 8	ECI 3	641666	3624.99	1	13.79	14.70	1.233	-	-	-0.15	0.047	0.058
	FR1 n48	40M	BPSK	1	1	-	Back	5mm	Ant 8	ECI 3	641666	3624.99	1	13.82	14.70	1.225	-	-	-0.12	0.590	0.723
	FR1 n48	40M	BPSK	1	1	-	Back	5mm	Ant 8	ECI 3	638000	3570	1	13.77	14.70	1.239	-	-	-0.12	0.547	0.678
	FR1 n48	40M	BPSK	1	1	-	Back	5mm	Ant 8	ECI 3	645332	3679.98	1	13.74	14.70	1.247	-	-	0.08	0.661	0.824
	FR1 n48	40M	BPSK	100	0	-	Back	5mm	Ant 8	ECI 3	641666	3624.99	1	13.76	14.70	1.242	-	-	-0.06	0.555	0.689
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 8	ECI 3	641666	3624.99	1	13.79	14.70	1.233	-	-	0.19	0.615	0.758
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 8	ECI 3	638000	3570	1	13.71	14.70	1.256	-	-	0.11	0.561	0.705
95	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 8	ECI 3	645332	3679.98	1	13.65	14.70	1.274	-	-	0.00	0.693	0.883
	FR1 n48	40M	BPSK	1	1	-	Front	19mm	Ant 8	ECI 4	641666	3624.99	1	22.29	24.00	1.483	-	-	0.02	0.001	0.001
	FR1 n48	40M	BPSK	1	1	-	Back	25mm	Ant 8	ECI 4	641666	3624.99	1	22.29	24.00	1.483	-	-	0.02	0.585	0.868
	FR1 n48	40M	BPSK	50	28	-	Back	5mm	Ant 8	ECI 3	645332	3679.98	2	13.65	14.70	1.274	-	-	0.01	0.655	0.834

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	PA	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 3	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	0.15	0.297	0.356
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 3	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	0.01	0.255	0.308
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 3	633332	3499.98	1	PA (Reference Designator)	23.21	24.00	1.199	100.0	1.000	0.06	0.373	0.447
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 3	633332	3499.98	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	-0.01	0.520	0.628
	FR1 n77 (27Q) HPUE	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 3	633332	3499.98	1	Main PA	18.28	19.00	1.180	50.0	1.000	-0.09	0.275	0.325
	FR1 n77 (27Q) HPUE	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 3	633332	3499.98	1	PA (Reference Designator)	26.11	27.00	1.227	50.0	1.000	-0.15	0.553	0.679
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 3	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	0.09	0.389	0.457
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 3	650000	3750	1	PA (Reference Designator)	23.16	24.00	1.213	100.0	1.000	-0.17	0.368	0.446
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 3	661334	3920.01	1	PA (Reference Designator)	23.24	24.00	1.191	100.0	1.000	-0.07	0.348	0.414
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 1	ECI 3	662000	3930	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	0.01	0.350	0.423
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 3	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.16	0.443	0.524
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 3	650000	3750	1	PA (Reference Designator)	23.15	24.00	1.216	100.0	1.000	-0.18	0.433	0.527
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 3	661334	3920.01	1	PA (Reference Designator)	23.06	24.00	1.242	100.0	1.000	0.06	0.399	0.496
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 1	ECI 3	662000	3930	1	PA (Reference Designator)	22.87	24.00	1.297	100.0	1.000	-0.04	0.369	0.479
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 3	655668	3835.02	1	PA (Reference Designator)	23.30	24.00	1.175	100.0	1.000	0.17	0.870	1.022
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 3	650000	3750	1	PA (Reference Designator)	23.16	24.00	1.213	100.0	1.000	0.15	0.631	0.765
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 3	661334	3920.01	1	PA (Reference Designator)	23.24	24.00	1.191	100.0	1.000	-0.01	0.554	0.660
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 3	662000	3930	1	PA (Reference Designator)	23.18	24.00	1.208	100.0	1.000	0.08	0.522	0.631
	FR1 n77 (27Q)	100M	BPSK	270	0	Back	5mm	Ant 1	ECI 3	661334	3920.01	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.05	0.555	0.657
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 3	655668	3835.02	1	PA (Reference Designator)	23.27	24.00	1.183	100.0	1.000	0.12	0.652	0.771
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 3	650000	3750	1	PA (Reference Designator)	23.15	24.00	1.216	100.0	1.000	0.17	0.621	0.755
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 3	661334	3920.01	1	PA (Reference Designator)	23.06	24.00	1.242	100.0	1.000	-0.14	0.561	0.697
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 1	ECI 3	662000	3930	1	PA (Reference Designator)	22.87	24.00	1.297	100.0	1.000	0.09	0.529	0.686
96	FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 3	655668	3835.02	1	PA (Reference Designator)	26.25	27.00	1.189	50.0	1.000	-0.01	0.891	1.059
	FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 3	655668	3835.02	1	Main PA	21.18	22.00	1.208	50.0	1.000	-0.07	0.272	0.329
	FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Back	5mm	Ant 1	ECI 3	655668	3835.02	2	PA (Reference Designator)	26.25	27.00	1.189	50.0	1.000	0.09	0.855	1.017
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	633332	3499.98	1	PA (Reference Designator)	15.74	17.20	1.400	100.0	1.000	-0.14	0.194	0.272
	FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 3	ECI 3	633332	3499.98	1	PA (Reference Designator)	15.72	17.20	1.406	100.0	1.000	-0.13	0.193	0.271
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	633332	3499.98	1	PA (Reference Designator)	15.74	17.20	1.400	100.0	1.000	-0.01	0.241	0.337
	FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 3	633332	3499.98	1	PA (Reference Designator)	15.72	17.20	1.406	100.0	1.000	-0.03	0.235	0.330
	FR1 n77 (27Q)	100M	BPSK	1	1	Front	19mm	Ant 3	ECI 4	633332	3499.98	1	PA (Reference Designator)	22.68	24.00	1.355	100.0	1.000	0.02	0.041	0.056
	FR1 n77 (27Q)	100M	BPSK	1	1	Back	25mm	Ant 3	ECI 4	633332	3499.98	1	PA (Reference Designator)	22.68	24.00	1.355	100.0	1.000	0.06	0.001	0.001
	FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	633332	3499.98	1	PA (Reference Designator)	18.75	20.20	1.396	50.0	1.000	-0.16	0.224	0.313



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FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	633332	3499.98	1	Main PA	11.54	12.20	1.164	100.0	1.000	-0.13	0.069	0.080
FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 3	ECI 3	655668	3835.02	1	PA (Reference Designator)	15.71	17.20	1.409	100.0	1.000	0.00	0.205	0.289
FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 3	ECI 3	655668	3835.02	1	PA (Reference Designator)	15.68	17.20	1.419	100.0	1.000	0.02	0.323	0.458
FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 3	ECI 3	655668	3835.02	1	PA (Reference Designator)	15.71	17.20	1.409	100.0	1.000	-0.05	0.453	0.638
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 3	655668	3835.02	1	PA (Reference Designator)	15.68	17.20	1.419	100.0	1.000	0.02	0.592	0.840
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 3	661334	3920.01	1	PA (Reference Designator)	15.66	17.20	1.426	100.0	1.000	0.06	0.571	0.814
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 3	662000	3930	1	PA (Reference Designator)	15.64	17.20	1.432	100.0	1.000	0.09	0.550	0.788
FR1 n77 (27Q)	100M	BPSK	270	0	Back	5mm	Ant 3	ECI 3	655668	3835.02	1	PA (Reference Designator)	15.66	17.20	1.426	100.0	1.000	0.05	0.539	0.769
FR1 n77 (27Q)	100M	BPSK	1	1	Front	19mm	Ant 3	ECI 4	661334	3920.01	1	PA (Reference Designator)	22.65	24.00	1.365	100.0	1.000	0.01	0.057	0.078
FR1 n77 (27Q)	100M	BPSK	135	69	Front	19mm	Ant 3	ECI 4	661334	3920.01	1	PA (Reference Designator)	22.61	24.00	1.377	100.0	1.000	0.02	0.052	0.072
FR1 n77 (27Q)	100M	BPSK	1	1	Back	25mm	Ant 3	ECI 4	661334	3920.01	1	PA (Reference Designator)	22.65	24.00	1.365	100.0	1.000	0.00	0.001	0.001
FR1 n77 (27Q)	100M	BPSK	135	69	Back	25mm	Ant 3	ECI 4	661334	3920.01	1	PA (Reference Designator)	22.61	24.00	1.377	100.0	1.000	0.17	0.001	0.001
FR1 n77 (27Q) HPUE	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 3	655668	3835.02	1	PA (Reference Designator)	18.76	20.20	1.393	50.0	1.000	0.17	0.572	0.797
FR1 n77 (27Q) HPUE	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 3	655668	3835.02	1	Main PA	14.21	15.20	1.256	50.0	1.000	0.05	0.163	0.205
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 3	ECI 3	655668	3835.02	1	Main PA	11.37	12.20	1.211	100.0	1.000	0.05	0.163	0.197
FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 5	ECI 3	633332	3499.98	1		16.28	17.50	1.324	100.0	1.000	-0.19	0.354	0.469
FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 5	ECI 3	633332	3499.98	1		16.23	17.50	1.340	100.0	1.000	0.12	0.146	0.196
FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 3	633332	3499.98	1		16.28	17.50	1.324	100.0	1.000	-0.02	0.375	0.497
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 3	633332	3499.98	1		16.23	17.50	1.340	100.0	1.000	0.18	0.239	0.320
FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 3	633332	3499.98	1		19.00	20.50	1.413	50.0	1.000	-0.03	0.381	0.538
FR1 n77 (27Q)	100M	BPSK	1	1	Front	19mm	Ant 5	ECI 4	633332	3499.98	1		22.75	24.00	1.334	100.0	1.000	0.02	0.144	0.192
FR1 n77 (27Q)	100M	BPSK	1	1	Back	25mm	Ant 5	ECI 4	633332	3499.98	1		22.75	24.00	1.334	100.0	1.000	0.06	0.214	0.285
FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Back	25mm	Ant 5	ECI 4	633332	3499.98	1		25.40	27.00	1.445	100.0	1.000	0.01	0.191	0.276
FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 5	ECI 3	661334	3920.01	1		16.43	17.50	1.279	100.0	1.000	0.02	0.172	0.220
FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 5	ECI 3	661334	3920.01	1		16.41	17.50	1.285	100.0	1.000	0.06	0.145	0.186
FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 5	ECI 3	661334	3920.01	1		16.43	17.50	1.279	100.0	1.000	0.01	0.173	0.221
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 3	661334	3920.01	1		16.41	17.50	1.285	100.0	1.000	0.02	0.228	0.293
FR1 n77 (27Q) HPUE	100M	BPSK	135	69	Back	5mm	Ant 5	ECI 3	661334	3920.01	1		19.51	20.50	1.256	50.0	1.000	-0.05	0.245	0.308
FR1 n77 (27Q)	100M	BPSK	1	1	Front	19mm	Ant 5	ECI 4	661334	3920.01	1		22.89	24.00	1.291	100.0	1.000	0.02	0.103	0.133
FR1 n77 (27Q)	100M	BPSK	1	1	Back	25mm	Ant 5	ECI 4	661334	3920.01	1		22.89	24.00	1.291	100.0	1.000	0.02	0.144	0.186
FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Back	25mm	Ant 5	ECI 4	661334	3920.01	1		25.92	27.00	1.282	100.0	1.000	0.06	0.133	0.171
FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 8	ECI 3	633332	3499.98	1		13.38	14.40	1.265	100.0	1.000	-0.18	0.027	0.034
FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 8	ECI 3	633332	3499.98	1		13.35	14.40	1.274	100.0	1.000	0.03	0.028	0.036
FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 3	633332	3499.98	1		13.38	14.40	1.265	100.0	1.000	0.04	0.459	0.581
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 8	ECI 3	633332	3499.98	1		13.35	14.40	1.274	100.0	1.000	0.11	0.392	0.499
FR1 n77 (27Q)	100M	BPSK	1	1	Front	19mm	Ant 8	ECI 4	633332	3499.98	1		24.32	25.00	1.169	100.0	1.000	0.06	0.021	0.025
FR1 n77 (27Q)	100M	BPSK	135	69	Front	19mm	Ant 8	ECI 4	633332	3499.98	1		24.20	25.00	1.202	100.0	1.000	0.02	0.019	0.023
FR1 n77 (27Q)	100M	BPSK	1	1	Back	25mm	Ant 8	ECI 4	633332	3499.98	1		24.32	25.00	1.169	100.0	1.000	0.05	0.196	0.229
FR1 n77 (27Q)	100M	BPSK	135	69	Back	25mm	Ant 8	ECI 4	633332	3499.98	1		24.20	25.00	1.202	100.0	1.000	0.14	0.181	0.218
FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 3	633332	3499.98	1		16.36	17.40	1.271	50.0	1.000	-0.14	0.479	0.609
FR1 n77 (27Q) HPUE	100M	BPSK	1	1	Back	25mm	Ant 8	ECI 4	633332	3499.98	1		24.81	26.00	1.315	100.0	1.000	0.01	0.168	0.221
FR1 n77 (27Q)	100M	BPSK	1	1	Front	5mm	Ant 8	ECI 3	661334	3920.01	1		13.78	14.40	1.153	100.0	1.000	0.17	0.022	0.025
FR1 n77 (27Q)	100M	BPSK	135	69	Front	5mm	Ant 8	ECI 3	661334	3920.01	1		13.67	14.40	1.183	100.0	1.000	0.16	0.019	0.022
FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 3	661334	3920.01	1		13.78	14.40	1.153	100.0	1.000	-0.07	0.762	0.879
FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 3	650000	3750	1		13.67	14.40	1.183	100.0	1.000	-0.04	0.726	0.859
FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 3	655668	3835.02	1		13.65	14.40	1.189	100.0	1.000	-0.17	0.688	0.818
FR1 n77 (27Q)	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 3	662000	3930	1		13.71	14.40	1.172	100.0	1.000	0.05	0.712	0.834
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 8	ECI 3	661334	3920.01	1		13.67	14.40	1.183	100.0	1.000	0.11	0.510	0.603
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 8	ECI 3	650000	3750	1		13.55	14.40	1.216	100.0	1.000	0.01	0.478	0.581
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 8	ECI 3	655668	3835.02	1		13.55	14.40	1.216	100.0	1.000	0.13	0.459	0.558
FR1 n77 (27Q)	100M	BPSK	135	69	Back	5mm	Ant 8	ECI 3	662000	3930	1		13.65	14.40	1.189	100.0	1.000	0.06	0.481	0.572
FR1 n77 (27Q)	100M	BPSK	270	0	Back	5mm	Ant 8	ECI 3	661334	3920.01	1		13.66	14.40	1.186	100.0	1.000	0.16	0.628	0.745



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	FR1 n77 (270)	100M	BPSK	1	1	Front	19mm	Ant 8	ECI 4	661334	3920.01	1		24.69	25.00	1.074	100.0	1.000	0.06	0.011	0.012
	FR1 n77 (270)	100M	BPSK	135	69	Front	19mm	Ant 8	ECI 4	661334	3920.01	1		24.59	25.00	1.099	100.0	1.000	0.05	0.017	0.019
	FR1 n77 (270)	100M	BPSK	1	1	Back	25mm	Ant 8	ECI 4	661334	3920.01	1		24.69	25.00	1.074	100.0	1.000	0.02	0.314	0.337
	FR1 n77 (270)	100M	BPSK	135	69	Back	25mm	Ant 8	ECI 4	661334	3920.01	1		24.59	25.00	1.099	100.0	1.000	0.07	0.297	0.326
	FR1 n77 (270) HPUE	100M	BPSK	1	1	Back	5mm	Ant 8	ECI 3	661334	3920.01	1		16.75	17.40	1.161	50.0	1.000	0.10	0.730	0.848

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
WLAN																	
97	Bluetooth	1Mbps	Front	5mm	Ant 6	Standalone	39	2441	1	10.60	12.00	1.380	76.8	1.085	-0.19	0.054	0.081
	Bluetooth	1Mbps	Back	5mm	Ant 6	Standalone	39	2441	1	10.60	12.00	1.380	76.8	1.085	-0.03	0.090	0.135
98	2.4GHz WLAN	802.11b 1Mbps	Front	19mm	Ant 6	Full Power	11	2462	1	22.01	23.00	1.256	99.5	1.005	0.00	0.119	0.150
	2.4GHz WLAN	802.11b 1Mbps	Back	25mm	Ant 6	Full Power	11	2462	1	22.01	23.00	1.256	99.5	1.005	0.01	0.084	0.106
	2.4GHz WLAN	802.11b 1Mbps	Front	5mm	Ant 6	Standalone	11	2462	1	21.31	22.00	1.172	99.5	1.005	0.17	0.500	0.589
	2.4GHz WLAN	802.11b 1Mbps	Back	5mm	Ant 6	Standalone	11	2462	1	21.31	22.00	1.172	99.5	1.005	-0.04	0.791	0.932
	2.4GHz WLAN	802.11b 1Mbps	Back	5mm	Ant 6	Standalone	1	2412	1	20.60	22.00	1.380	99.5	1.005	-0.18	0.841	1.166
	2.4GHz WLAN	802.11b 1Mbps	Back	5mm	Ant 6	Standalone	6	2437	1	20.73	22.00	1.340	99.5	1.005	-0.04	0.978	1.317
	2.4GHz WLAN Headset	802.11b 1Mbps	Back	5mm	Ant 6	Standalone	6	2437	1	20.73	22.00	1.340	99.5	1.005	0.06	0.936	1.261
	2.4GHz WLAN	802.11b 1Mbps	Back	5mm	Ant 6	Standalone	6	2437	2	20.73	22.00	1.340	99.5	1.005	-0.06	0.922	1.242
	2.4GHz WLAN	802.11n-HT40 MCS0	Back	5mm	Ant 6	Standalone	6	2437	1	18.70	20.50	1.514	93.9	1.065	0.05	0.606	0.977
	2.4GHz WLAN	802.11b 1Mbps	Front	5mm	Ant 6	Simultaneous	11	2462	1	13.21	14.50	1.346	99.5	1.005	0.12	0.146	0.197
99	2.4GHz WLAN	802.11b 1Mbps	Back	5mm	Ant 6	Simultaneous	11	2462	1	13.21	14.50	1.346	99.5	1.005	0.03	0.231	0.312
	5.3GHz WLAN	802.11a 6Mbps	Front	19mm	Ant 6	Full Power	52	5260	1	19.43	21.00	1.435	96.9	1.032	0.09	0.283	0.419
	5.3GHz WLAN	802.11a 6Mbps	Back	25mm	Ant 6	Full Power	52	5260	1	19.43	21.00	1.435	96.9	1.032	0.11	0.195	0.289
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Standalone	58	5290	1	13.03	14.50	1.403	88.0	1.136	0.02	0.295	0.470
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Standalone	58	5290	1	13.03	14.50	1.403	88.0	1.136	0.07	0.735	1.171
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Standalone	58	5290	2	13.03	14.50	1.403	88.0	1.136	-0.04	0.570	0.908
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Simultaneous	58	5290	1	8.86	10.00	1.300	88.0	1.136	-0.17	0.098	0.145
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Simultaneous	58	5290	1	8.86	10.00	1.300	88.0	1.136	0.06	0.244	0.360
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Standalone	138	5690	1	15.56	16.50	1.242	88.0	1.136	-0.09	0.454	0.641
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Standalone	138	5690	1	15.56	16.50	1.242	88.0	1.136	-0.14	0.672	0.948
100	5.5GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Standalone	122	5610	1	15.52	16.50	1.253	88.0	1.136	-0.06	0.758	1.079
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Standalone	106	5530	1	15.00	16.50	1.413	88.0	1.136	-0.18	0.573	0.920
	5.5GHz WLAN	802.11a 6Mbps	Front	19mm	Ant 6	Full Power	116	5580	1	20.52	22.00	1.406	96.9	1.032	0.06	0.203	0.295
	5.5GHz WLAN	802.11a 6Mbps	Back	25mm	Ant 6	Full Power	116	5580	1	20.52	22.00	1.406	96.9	1.032	0.14	0.200	0.290
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Simultaneous	122	5610	1	11.30	12.50	1.318	88.0	1.136	0.17	0.163	0.244
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Simultaneous	122	5610	1	11.30	12.50	1.318	88.0	1.136	0.06	0.241	0.361
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Standalone	155	5775	1	15.36	16.00	1.159	88.0	1.136	0.11	0.477	0.628
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Standalone	155	5775	1	15.36	16.00	1.159	88.0	1.136	0.00	0.843	1.110
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Standalone	155	5775	2	15.36	16.00	1.159	88.0	1.136	0.02	0.562	0.740
	5.8GHz WLAN	802.11a 6Mbps	Front	19mm	Ant 6	Full Power	157	5785	1	20.54	22.00	1.400	96.9	1.032	0.03	0.315	0.455
101	5.8GHz WLAN	802.11a 6Mbps	Back	25mm	Ant 6	Full Power	157	5785	1	20.54	22.00	1.400	96.9	1.032	0.05	0.273	0.394
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Simultaneous	155	5775	1	10.90	12.00	1.288	88.0	1.136	-0.05	0.132	0.193
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Simultaneous	155	5775	1	10.90	12.00	1.288	88.0	1.136	0.06	0.233	0.341



15.4 Product specific 10g SAR

Plot No	Band	BW	Modulation	RB Size	RB Offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	GSM850	-	-	-	-	GPRS 4 Tx slots	Front	0mm	Ant 0	ECI 6	189	836.4	1	28.08	29.50	1.387	-	-	-0.01	1.130	1.567
	GSM850	-	-	-	-	GPRS 4 Tx slots	Back	0mm	Ant 0	ECI 6	189	836.4	1	28.08	29.50	1.387	-	-	0.05	1.260	1.748
	GSM850	-	-	-	-	GPRS 4 Tx slots	Bottom Side	0mm	Ant 0	ECI 6	189	836.4	1	28.08	29.50	1.387	-	-	0.03	1.830	2.538
102	GSM850	-	-	-	-	GPRS 4 Tx slots	Bottom Side	0mm	Ant 0	ECI 6	128	824.2	1	28.03	29.50	1.403	-	-	0.00	2.120	2.974
	GSM850	-	-	-	-	GPRS 4 Tx slots	Bottom Side	0mm	Ant 0	ECI 6	251	848.8	1	27.81	29.50	1.476	-	-	0.09	1.730	2.553
	GSM850	-	-	-	-	GPRS 4 Tx slots	Bottom Side	0mm	Ant 0	ECI 6	128	824.2	2	28.03	29.50	1.403	-	-	0.01	1.770	2.483
103	GSM1900	-	-	-	-	GPRS 2 Tx slots	Bottom Side	0mm	Ant 0	ECI 6	661	1880	1	28.52	29.50	1.253	-	-	0.01	0.845	1.059
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	ECI 6	9400	1880	1	22.62	24.00	1.374	-	-	0.12	1.540	2.116
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	ECI 6	9262	1852.4	1	22.58	24.00	1.387	-	-	-0.11	1.570	2.178
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	ECI 6	9538	1907.6	1	22.44	24.00	1.432	-	-	0.09	1.410	2.019
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	9400	1880	1	22.62	24.00	1.374	-	-	-0.06	2.210	3.037
104	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	9262	1852.4	1	22.58	24.00	1.387	-	-	0.00	2.290	3.176
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	9538	1907.6	1	22.44	24.00	1.432	-	-	0.12	2.050	2.936
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	ECI 6	9400	1880	1	22.62	24.00	1.374	-	-	0.01	1.010	1.388
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	ECI 6	1413	1732.6	1	23.15	24.00	1.216	-	-	-0.09	1.770	2.152
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	ECI 6	1312	1712.4	1	23.14	24.00	1.219	-	-	0.18	1.600	1.950
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 0	ECI 6	1513	1752.6	1	23.12	24.00	1.225	-	-	-0.14	1.840	2.254
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	1413	1732.6	1	23.15	24.00	1.216	-	-	-0.16	2.370	2.882
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	1312	1712.4	1	23.14	24.00	1.219	-	-	0.08	2.290	2.792
105	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	1513	1752.6	1	23.12	24.00	1.225	-	-	0.00	2.380	2.916
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	ECI 6	1413	1732.6	1	23.15	24.00	1.216	-	-	-0.17	1.430	1.739
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	4182	836.4	1	23.34	24.00	1.164	-	-	0.01	1.160	1.350
106	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	ECI 6	4182	836.4	1	23.34	24.00	1.164	-	-	0.00	1.410	1.641

Plot No	Band	BW	Modulation	RB Size	RB Offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	-	Front	7mm	Ant 1	ECI 4	21100	2535	1	22.68	24.00	1.355	-	-	0.02	0.281	0.381
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	21100	2535	1	22.68	24.00	1.355	-	-	-0.06	0.101	0.137
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 4	21100	2535	1	22.68	24.00	1.355	-	-	0.05	0.509	0.690
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 1	ECI 4	21100	2535	1	22.68	24.00	1.355	-	-	0.01	0.126	0.171
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	21100	2535	1	22.17	23.10	1.239	-	-	-0.12	1.850	2.292
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	20850	2510	1	22.11	23.10	1.256	-	-	0.15	1.820	2.286
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	21350	2560	1	22.09	23.10	1.262	-	-	-0.06	1.790	2.259
	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	21100	2535	1	21.66	23.00	1.361	-	-	-0.05	1.450	1.973
	LTE Band 7	20M	QPSK	100	0	-	Front	0mm	Ant 1	ECI 6	21100	2535	1	21.62	23.00	1.374	-	-	0.08	1.470	2.020
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	21100	2535	1	22.17	23.10	1.239	-	-	0.08	2.070	2.565
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	20850	2510	1	22.11	23.10	1.256	-	-	0.12	1.930	2.424
107	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	21350	2560	1	22.09	23.10	1.262	-	-	0.00	2.500	3.155
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	21100	2535	1	21.66	23.00	1.361	-	-	0.07	1.790	2.436
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	20850	2510	1	21.62	23.00	1.374	-	-	0.18	1.710	2.350
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	21350	2560	1	21.58	23.00	1.387	-	-	0.08	1.990	2.760
	LTE Band 7	20M	QPSK	100	0	-	Back	0mm	Ant 1	ECI 6	21100	2535	1	21.62	23.00	1.374	-	-	0.07	1.750	2.405
	LTE Band 7	20M	QPSK	1	0	-	Left Side	0mm	Ant 1	ECI 6	21100	2535	1	22.17	23.10	1.239	-	-	-0.02	1.130	1.400
	LTE Band 7	20M	QPSK	50	0	-	Left Side	0mm	Ant 1	ECI 6	21100	2535	1	21.66	23.00	1.361	-	-	-0.06	1.010	1.375
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	21100	2535	1	22.17	23.10	1.239	-	-	0.02	1.320	1.635
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	21100	2535	1	21.66	23.00	1.361	-	-	-0.05	0.985	1.341
108	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 0	ECI 6	23230	782	1	22.95	24.00	1.274	-	-	0.00	1.570	2.000
	LTE Band 13	10M	QPSK	25	0	-	Back	0mm	Ant 0	ECI 6	23230	782	1	21.90	23.00	1.288	-	-	0.07	1.250	1.610



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	LTE Band 13	10M	QPSK	50	0	-	Back	0mm	Ant 0	ECI 6	23230	782	1	21.90	23.00	1.288	-	-	0.18	1.210	1.558
109	LTE Band 14	10M	QPSK	1	0	-	Back	0mm	Ant 0	ECI 6	23330	793	1	23.01	24.00	1.256	-	-	0.01	1.320	1.658
	LTE Band 14	10M	QPSK	25	0	-	Back	0mm	Ant 0	ECI 6	23330	793	1	21.93	23.00	1.279	-	-	-0.01	1.250	1.599
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	7mm	Ant 4	ECI 4	26340	1880	1	22.85	24.00	1.303	-	-	0.05	0.180	0.235
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	16mm	Ant 4	ECI 4	26340	1880	1	22.85	24.00	1.303	-	-	0.09	0.068	0.089
	LTE Band 25	20M	QPSK	1	0	Main PA	Top Side	13mm	Ant 4	ECI 4	26340	1880	1	22.85	24.00	1.303	-	-	0.04	0.420	0.547
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	0mm	Ant 4	ECI 6	26340	1880	1	21.58	22.60	1.265	-	-	0.06	1.030	1.303
	LTE Band 25	20M	QPSK	50	0	Main PA	Front	0mm	Ant 4	ECI 6	26340	1880	1	21.55	22.60	1.274	-	-	-0.11	0.826	1.052
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	0mm	Ant 4	ECI 6	26340	1880	1	21.58	22.60	1.265	-	-	0.06	1.090	1.379
	LTE Band 25	20M	QPSK	50	0	Main PA	Back	0mm	Ant 4	ECI 6	26340	1880	1	21.55	22.60	1.274	-	-	-0.09	0.855	1.089
	LTE Band 25	20M	QPSK	1	0	Main PA	Top Side	0mm	Ant 4	ECI 6	26340	1880	1	21.58	22.60	1.265	-	-	-0.17	1.830	2.315
	LTE Band 25	20M	QPSK	1	0	Main PA	Top Side	0mm	Ant 4	ECI 6	26140	1860	1	21.52	22.60	1.282	-	-	0.02	1.920	2.461
	LTE Band 25	20M	QPSK	1	0	Main PA	Top Side	0mm	Ant 4	ECI 6	26590	1905	1	21.49	22.60	1.291	-	-	-0.15	1.750	2.259
	LTE Band 25	20M	QPSK	50	0	Main PA	Top Side	0mm	Ant 4	ECI 6	26340	1880	1	21.55	22.60	1.274	-	-	0.18	1.480	1.886
	LTE Band 25	20M	QPSK	100	0	Main PA	Top Side	0mm	Ant 4	ECI 6	26340	1880	1	21.53	22.60	1.279	-	-	-0.13	1.480	1.893
	LTE Band 2	20M	QPSK	1	0	PA (Reference Designator)	Top Side	0mm	Ant 4	ECI 6	18900	1880	1	22.22	22.60	1.091	-	-	0.02	1.810	1.975
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	9mm	Ant 0	ECI 4	26340	1880	1	22.95	24.00	1.274	-	-	0.02	0.573	0.730
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	19mm	Ant 0	ECI 4	26340	1880	1	22.95	24.00	1.274	-	-	0.06	0.183	0.233
	LTE Band 25	20M	QPSK	1	0	Main PA	Bottom Side	15mm	Ant 0	ECI 4	26340	1880	1	22.95	24.00	1.274	-	-	-0.10	0.292	0.372
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	0mm	Ant 0	ECI 6	26340	1880	1	22.95	23.80	1.216	-	-	-0.14	1.880	2.286
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	0mm	Ant 0	ECI 6	26140	1860	1	22.84	23.80	1.247	-	-	0.04	1.910	2.382
	LTE Band 25	20M	QPSK	1	0	Main PA	Front	0mm	Ant 0	ECI 6	26590	1905	1	22.84	23.80	1.247	-	-	-0.02	1.830	2.282
	LTE Band 25	20M	QPSK	50	0	Main PA	Front	0mm	Ant 0	ECI 6	26340	1880	1	21.98	23.00	1.265	-	-	0.01	1.830	2.315
	LTE Band 25	20M	QPSK	50	0	Main PA	Front	0mm	Ant 0	ECI 6	26140	1860	1	21.83	23.00	1.309	-	-	-0.15	1.840	2.409
	LTE Band 25	20M	QPSK	50	0	Main PA	Front	0mm	Ant 0	ECI 6	26590	1905	1	21.86	23.00	1.300	-	-	-0.03	1.720	2.236
	LTE Band 25	20M	QPSK	100	0	Main PA	Front	0mm	Ant 0	ECI 6	26340	1880	1	21.92	23.00	1.282	-	-	0.06	1.800	2.308
110	LTE Band 25	20M	QPSK	1	0	Main PA	Back	0mm	Ant 0	ECI 6	26340	1880	1	22.95	23.80	1.216	-	-	0.01	2.610	3.174
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	0mm	Ant 0	ECI 6	26140	1860	1	22.84	23.80	1.247	-	-	0.01	2.490	3.105
	LTE Band 25	20M	QPSK	1	0	Main PA	Back	0mm	Ant 0	ECI 6	26590	1905	1	22.84	23.80	1.247	-	-	-0.19	2.480	3.093
	LTE Band 25	20M	QPSK	50	0	Main PA	Back	0mm	Ant 0	ECI 6	26340	1880	1	21.98	23.00	1.265	-	-	0.19	2.410	3.049
	LTE Band 25	20M	QPSK	50	0	Main PA	Back	0mm	Ant 0	ECI 6	26140	1860	1	21.83	23.00	1.309	-	-	0.02	2.380	3.115
	LTE Band 25	20M	QPSK	50	0	Main PA	Back	0mm	Ant 0	ECI 6	26590	1905	1	21.86	23.00	1.300	-	-	0.07	2.350	3.055
	LTE Band 25	20M	QPSK	100	0	Main PA	Back	0mm	Ant 0	ECI 6	26340	1880	1	21.92	23.00	1.282	-	-	0.12	2.450	3.141
	LTE Band 25	20M	QPSK	1	0	Main PA	Bottom Side	0mm	Ant 0	ECI 6	26340	1880	1	22.95	23.80	1.216	-	-	-0.07	1.420	1.727
	LTE Band 25	20M	QPSK	50	0	Main PA	Bottom Side	0mm	Ant 0	ECI 6	26340	1880	1	21.98	23.00	1.265	-	-	-0.12	1.440	1.822
	LTE Band 2	20M	QPSK	1	0	PA (Reference Designator)	Back	0mm	Ant 0	ECI 6	18900	1880	1	22.98	24.00	1.265	-	-	0.05	2.390	3.023
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	26865	831.5	1	22.65	24.00	1.365	-	-	0.00	1.050	1.433
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 4	ECI 6	26865	831.5	1	21.50	23.00	1.413	-	-	-0.17	0.809	1.143
	LTE Band 5B	10M+10M	QPSK	1	49	-	Back	0mm	Ant 4	ECI 6	20476+20575	831.6+841.5	1	22.34	24.00	1.466	-	-	0.06	0.945	1.385
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	26865	831.5	2	22.65	24.00	1.365	-	-	0.11	0.953	1.301
111	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 0	ECI 6	26865	831.5	1	22.96	24.00	1.271	-	-	0.00	1.870	2.377
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 0	ECI 6	26865	831.5	1	21.88	23.00	1.294	-	-	0.13	1.420	1.837
	LTE Band 26	15M	QPSK	75	0	-	Back	0mm	Ant 0	ECI 6	26865	831.5	1	21.89	23.00	1.291	-	-	0.11	1.330	1.717
	LTE Band 5B	10M+10M	QPSK	1	49	-	Back	0mm	Ant 0	ECI 6	20476+20575	831.6+841.5	1	22.60	24.00	1.380	-	-	0.01	1.630	2.249
	LTE Band 30	10M	QPSK	1	0	-	Front	7mm	Ant 1	ECI 4	27710	2310	1	22.68	24.00	1.355	-	-	0.02	0.255	0.346
	LTE Band 30	10M	QPSK	1	0	-	Back	15mm	Ant 1	ECI 4	27710	2310	1	22.68	24.00	1.355	-	-	0.06	0.134	0.182
	LTE Band 30	10M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	27710	2310	1	21.97	23.10	1.297	-	-	-0.08	1.490	1.933
	LTE Band 30	10M	QPSK	25	0	-	Front	0mm	Ant 1	ECI 6	27710	2310	1	21.95	23.00	1.274	-	-	0.07	1.160	1.478
112	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	27710	2310	1	21.97	23.10	1.297	-	-	0.02	2.450	3.178
	LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 1	ECI 6	27710	2310	1	21.95	23.00	1.274	-	-	-0.09	1.880	2.395
	LTE Band 30	10M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	27710	2310	1	21.91	23.00	1.285	-	-	0.19	1.860	2.390
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	7mm	Ant 4	ECI 4	132322	1745	1	22.36	24.00	1.459	-	-	0.05	0.144	0.210
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	16mm	Ant 4	ECI 4	132322	1745	1	22.36	24.00	1.459	-	-	0.03	0.069	0.101
	LTE Band 66	20M	QPSK	1	0	Main PA	Top Side	13mm	Ant 4	ECI 4	132322	1745	1	22.36	24.00	1.459	-	-	-0.02	0.327	0.477



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	LTE Band 66	20M	QPSK	1	0	Main PA	Front	0mm	Ant 4	ECI 6	132322	1745	1	20.93	21.80	1.222	-	-	-0.04	0.935	1.143
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	0mm	Ant 4	ECI 6	132322	1745	1	20.90	21.80	1.230	-	-	0.11	0.769	0.946
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	0mm	Ant 4	ECI 6	132322	1745	1	20.93	21.80	1.222	-	-	0.08	1.130	1.381
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	0mm	Ant 4	ECI 6	132322	1745	1	20.90	21.80	1.230	-	-	0.12	0.874	1.075
	LTE Band 66	20M	QPSK	1	0	Main PA	Top Side	0mm	Ant 4	ECI 6	132322	1745	1	20.93	21.80	1.222	-	-	-0.08	1.720	2.102
	LTE Band 66	20M	QPSK	1	0	Main PA	Top Side	0mm	Ant 4	ECI 6	132072	1720	1	20.88	21.80	1.236	-	-	-0.15	1.570	1.941
	LTE Band 66	20M	QPSK	1	0	Main PA	Top Side	0mm	Ant 4	ECI 6	132572	1770	1	20.85	21.80	1.245	-	-	0.01	2.000	2.490
	LTE Band 66	20M	QPSK	50	0	Main PA	Top Side	0mm	Ant 4	ECI 6	132322	1745	1	20.90	21.80	1.230	-	-	-0.01	1.420	1.747
	LTE Band 66	20M	QPSK	100	0	Main PA	Top Side	0mm	Ant 4	ECI 6	132322	1745	1	20.85	21.80	1.245	-	-	-0.15	1.490	1.855
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Top Side	0mm	Ant 4	ECI 6	132572	1770	1	21.50	21.80	1.072	-	-	-0.07	1.680	1.801
	LTE Band 66	20M	QPSK	1	0	Main PA	Top Side	0mm	Ant 4	ECI 6	132572	1770	2	20.85	21.80	1.245	-	-	-0.06	1.920	2.390
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	9mm	Ant 0	ECI 4	132322	1745	1	22.98	24.00	1.265	-	-	0.06	0.623	0.788
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	9mm	Ant 0	ECI 4	132322	1745	1	21.98	23.00	1.265	-	-	0.07	0.606	0.767
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	19mm	Ant 0	ECI 4	132322	1745	1	22.98	24.00	1.265	-	-	0.05	0.314	0.397
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	19mm	Ant 0	ECI 4	132322	1745	1	21.98	23.00	1.265	-	-	0.14	0.306	0.387
	LTE Band 66	20M	QPSK	1	0	Main PA	Bottom Side	15mm	Ant 0	ECI 4	132322	1745	1	22.98	24.00	1.265	-	-	0.11	0.372	0.471
	LTE Band 66	20M	QPSK	50	0	Main PA	Bottom Side	15mm	Ant 0	ECI 4	132322	1745	1	21.98	23.00	1.265	-	-	0.06	0.329	0.416
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	0mm	Ant 0	ECI 6	132322	1745	1	22.98	23.40	1.102	-	-	0.16	2.430	2.678
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	0mm	Ant 0	ECI 6	132072	1720	1	22.87	23.40	1.130	-	-	0.07	2.070	2.339
	LTE Band 66	20M	QPSK	1	0	Main PA	Front	0mm	Ant 0	ECI 6	132572	1770	1	22.96	23.40	1.107	-	-	-0.16	2.500	2.768
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	0mm	Ant 0	ECI 6	132322	1745	1	21.98	23.00	1.265	-	-	0.13	2.300	2.910
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	0mm	Ant 0	ECI 6	132072	1720	1	21.85	23.00	1.303	-	-	0.14	1.960	2.554
	LTE Band 66	20M	QPSK	50	0	Main PA	Front	0mm	Ant 0	ECI 6	132572	1770	1	21.93	23.00	1.279	-	-	-0.14	2.390	3.057
	LTE Band 66	20M	QPSK	100	0	Main PA	Front	0mm	Ant 0	ECI 6	132322	1745	1	22.00	23.00	1.259	-	-	-0.02	2.280	2.871
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	0mm	Ant 0	ECI 6	132322	1745	1	22.98	23.40	1.102	-	-	-0.07	2.770	3.053
	LTE Band 66	20M	QPSK	1	0	Main PA	Back	0mm	Ant 0	ECI 6	132072	1720	1	22.87	23.40	1.130	-	-	0.17	2.260	2.554
113	LTE Band 66	20M	QPSK	1	0	Main PA	Back	0mm	Ant 0	ECI 6	132572	1770	1	22.96	23.40	1.107	-	-	-0.01	2.840	3.144
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	0mm	Ant 0	ECI 6	132322	1745	1	21.98	23.00	1.265	-	-	-0.03	2.400	3.036
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	0mm	Ant 0	ECI 6	132072	1720	1	21.85	23.00	1.303	-	-	-0.12	2.360	3.075
	LTE Band 66	20M	QPSK	50	0	Main PA	Back	0mm	Ant 0	ECI 6	132572	1770	1	21.93	23.00	1.279	-	-	-0.04	2.450	3.134
	LTE Band 66	20M	QPSK	100	0	Main PA	Back	0mm	Ant 0	ECI 6	132322	1745	1	22.00	23.00	1.259	-	-	0.16	2.320	2.921
	LTE Band 66	20M	QPSK	1	0	Main PA	Bottom Side	0mm	Ant 0	ECI 6	132322	1745	1	22.98	23.40	1.102	-	-	-0.11	1.810	1.995
	LTE Band 66	20M	QPSK	50	0	Main PA	Bottom Side	0mm	Ant 0	ECI 6	132322	1745	1	21.98	23.00	1.265	-	-	0.12	1.790	2.264
	LTE Band 66	20M	QPSK	50	0	Main PA	Bottom Side	0mm	Ant 0	ECI 6	132072	1720	1	21.85	23.00	1.303	-	-	0.12	1.700	2.215
	LTE Band 66	20M	QPSK	50	0	Main PA	Bottom Side	0mm	Ant 0	ECI 6	132572	1770	1	21.93	23.00	1.279	-	-	-0.15	1.760	2.251
	LTE Band 66	20M	QPSK	100	0	Main PA	Bottom Side	0mm	Ant 0	ECI 6	132322	1745	1	22.00	23.00	1.259	-	-	0.13	1.820	2.291
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Back	0mm	Ant 0	ECI 6	132572	1770	1	22.95	23.40	1.109	-	-	-0.03	2.450	2.717
	LTE Band 66	20M	QPSK	1	0	PA (Reference Designator)	Back	0mm	Ant 0	ECI 6	132572	1770	1	23.11	23.40	1.069	-	-	0.06	2.380	2.544
	LTE Band 41	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	40620	2593	1	22.65	24.00	1.365	62.9	1.006	-0.02	1.010	1.387
	LTE Band 41	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	40620	2593	1	21.51	23.00	1.409	62.9	1.006	0.01	0.790	1.120
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	40620	2593	1	22.65	24.00	1.365	62.9	1.006	-0.02	1.610	2.211
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	39750	2506	1	22.42	24.00	1.439	62.9	1.006	0.10	1.480	2.142
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	40185	2549.5	1	22.53	24.00	1.403	62.9	1.006	0.16	1.530	2.159
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	41055	2636.5	1	22.52	24.00	1.406	62.9	1.006	0.16	1.610	2.277
	LTE Band 41	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	41490	2680	1	22.64	24.00	1.368	62.9	1.006	0.04	1.260	1.734
	LTE Band 41	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	40620	2593	1	21.51	23.00	1.409	62.9	1.006	0.05	0.929	1.317
	LTE Band 41	20M	QPSK	100	0	-	Back	0mm	Ant 1	ECI 6	40620	2593	1	21.46	23.00	1.426	62.9	1.006	-0.17	0.988	1.417
	LTE Band 41C	20M+20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	41490+41292	2680+2660.2	1	22.60	24.00	1.380	62.9	1.006	0.06	1.180	1.638
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	0mm	Ant 1	ECI 6	39750+39948	2506+2525.8	1	22.56	24.00	1.393	62.9	1.006	0.01	1.010	1.415
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	0mm	Ant 1	ECI 6	40185+40383	2549.5+2569.3	1	22.47	24.00	1.422	62.9	1.006	0.05	1.050	1.502
	LTE Band 41C	20M+20M	QPSK	1	99	-	Back	0mm	Ant 1	ECI 6	40620+40818	2593+2612.8	1	22.45	24.00	1.429	62.9	1.006	0.10	0.986	1.417
	LTE Band	20M+20M	QPSK	1	99	-	Back	0mm	Ant 1	ECI 6	41055+	2636.5+	1	22.44	24.00	1.432	62.9	1.006	-0.06	0.975	1.405



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	41C										41253	2656.3									
114	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	41055	2636.5	1	25.40	27.00	1.445	42.9	1.009	0.01	2.020	2.945
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 5	ECI 6	55830	3609	1	22.82	24.00	1.312	62.9	1.006	-0.09	0.631	0.833
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 5	ECI 6	55830	3609	1	21.56	23.00	1.393	62.9	1.006	0.01	0.369	0.517
115	LTE Band 48	20M	QPSK	1	0	-	Top Side	0mm	Ant 5	ECI 6	55830	3609	1	22.82	24.00	1.312	62.9	1.006	0.00	1.120	1.478
	LTE Band 48	20M	QPSK	50	0	-	Top Side	0mm	Ant 5	ECI 6	55830	3609	1	21.56	23.00	1.393	62.9	1.006	-0.02	0.917	1.285
	LTE Band 48C	20M+20M	QPSK	1	0	-	Top Side	0mm	Ant 5	ECI 6	55830+56028	3609+3628.8	1	16.89	18.00	1.291	62.9	1.006	0.05	0.306	0.397
	FR1 n7	50M	BPSK	135	68	-	Front	7mm	Ant 1	ECI 4	507000	2535	1	22.98	24.00	1.265	-	-	0.06	0.521	0.659
	FR1 n7	50M	BPSK	135	68	-	Back	15mm	Ant 1	ECI 4	507000	2535	1	22.98	24.00	1.265	-	-	0.04	0.194	0.245
	FR1 n7	50M	BPSK	135	68	-	Bottom Side	11mm	Ant 1	ECI 4	507000	2535	1	22.98	24.00	1.265	-	-	0.09	0.291	0.368
	FR1 n7	50M	BPSK	1	1	-	Front	0mm	Ant 1	ECI 6	507000	2535	1	22.72	23.60	1.225	-	-	-0.16	1.910	2.340
	FR1 n7	50M	BPSK	135	68	-	Front	0mm	Ant 1	ECI 6	507000	2535	1	22.64	23.60	1.247	-	-	0.03	1.880	2.344
	FR1 n7	50M	BPSK	270	0	-	Front	0mm	Ant 1	ECI 6	507000	2535	1	22.58	23.50	1.236	-	-	0.18	1.790	2.212
	FR1 n7	50M	BPSK	1	1	-	Back	0mm	Ant 1	ECI 6	507000	2535	1	22.72	23.60	1.225	-	-	0.03	2.330	2.854
116	FR1 n7	50M	BPSK	135	68	-	Back	0mm	Ant 1	ECI 6	507000	2535	1	22.64	23.60	1.247	-	-	-0.12	2.570	3.205
	FR1 n7	50M	BPSK	270	0	-	Back	0mm	Ant 1	ECI 6	507000	2535	1	22.58	23.50	1.236	-	-	-0.07	2.390	2.954
	FR1 n7	50M	BPSK	1	1	-	Bottom Side	0mm	Ant 1	ECI 6	507000	2535	1	22.72	23.60	1.225	-	-	-0.18	1.320	1.617
	FR1 n7	50M	BPSK	135	68	-	Bottom Side	0mm	Ant 1	ECI 6	507000	2535	1	22.64	23.60	1.247	-	-	0.01	1.290	1.609
	FR1 n7	50M	BPSK	135	68	-	Back	0mm	Ant 1	ECI 6	507000	2535	2	22.64	23.60	1.247	-	-	-0.06	1.830	2.282
	FR1 n7	50M	BPSK	135	68	-	Front	7mm	Ant 4	ECI 4	507000	2535	1	23.05	24.00	1.245	-	-	0.05	0.532	0.662
	FR1 n7	50M	BPSK	135	68	-	Back	16mm	Ant 4	ECI 4	507000	2535	1	23.05	24.00	1.245	-	-	0.09	0.279	0.347
	FR1 n7	50M	BPSK	135	68	-	Top Side	13mm	Ant 4	ECI 4	507000	2535	1	23.05	24.00	1.245	-	-	0.04	0.639	0.796
	FR1 n7	50M	BPSK	1	1	-	Front	0mm	Ant 4	ECI 6	507000	2535	1	22.14	23.00	1.219	-	-	0.11	1.950	2.377
	FR1 n7	50M	BPSK	135	68	-	Front	0mm	Ant 4	ECI 6	507000	2535	1	22.12	23.00	1.225	-	-	-0.08	1.810	2.217
	FR1 n7	50M	BPSK	270	0	-	Front	0mm	Ant 4	ECI 6	507000	2535	1	22.10	23.00	1.230	-	-	-0.07	1.660	2.042
	FR1 n7	50M	BPSK	1	1	-	Back	0mm	Ant 4	ECI 6	507000	2535	1	22.14	23.00	1.219	-	-	-0.04	1.990	2.426
	FR1 n7	50M	BPSK	135	68	-	Back	0mm	Ant 4	ECI 6	507000	2535	1	22.12	23.00	1.225	-	-	0.08	1.900	2.328
	FR1 n7	50M	BPSK	270	0	-	Back	0mm	Ant 4	ECI 6	507000	2535	1	22.10	23.00	1.230	-	-	0.06	1.620	1.993
	FR1 n7	50M	BPSK	1	1	-	Top Side	0mm	Ant 4	ECI 6	507000	2535	1	22.14	23.00	1.219	-	-	-0.04	1.950	2.377
	FR1 n7	50M	BPSK	135	68	-	Top Side	0mm	Ant 4	ECI 6	507000	2535	1	22.12	23.00	1.225	-	-	-0.05	1.800	2.205
	FR1 n7	50M	BPSK	270	0	-	Top Side	0mm	Ant 4	ECI 6	507000	2535	1	22.10	23.00	1.230	-	-	0.06	1.640	2.017
	FR1 n7	50M	BPSK	1	1	-	Back	0mm	Ant 4	ECI 6	507000	2535	2	22.14	23.00	1.219	-	-	-0.06	1.560	1.902
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Front	7mm	Ant 4	ECI 4	376500	1882.5	1	22.66	24.00	1.361	-	-	0.06	0.359	0.489
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Back	16mm	Ant 4	ECI 4	376500	1882.5	1	22.66	24.00	1.361	-	-	0.10	0.147	0.200
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Top Side	13mm	Ant 4	ECI 4	376500	1882.5	1	22.66	24.00	1.361	-	-	0.03	0.301	0.410
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Front	0mm	Ant 4	ECI 6	376500	1882.5	1	21.37	21.80	1.104	-	-	-0.07	1.150	1.270
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Front	0mm	Ant 4	ECI 6	376500	1882.5	1	21.35	21.80	1.109	-	-	0.16	1.190	1.320
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Back	0mm	Ant 4	ECI 6	376500	1882.5	1	21.37	21.80	1.104	-	-	0.18	1.160	1.281
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Back	0mm	Ant 4	ECI 6	376500	1882.5	1	21.35	21.80	1.109	-	-	0.03	1.110	1.231
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Top Side	0mm	Ant 4	ECI 6	376500	1882.5	1	21.37	21.80	1.104	-	-	0.00	2.240	2.473
	FR1 n25	40M	BPSK	108	54	PA (Reference Designator)	Top Side	0mm	Ant 4	ECI 6	376500	1882.5	1	21.35	21.80	1.109	-	-	-0.15	2.110	2.340
	FR1 n25	40M	BPSK	216	0	PA (Reference Designator)	Top Side	0mm	Ant 4	ECI 6	376500	1882.5	1	21.33	21.80	1.114	-	-	0.08	1.960	2.183
	FR1 n25	40M	BPSK	1	1	Main PA	Top Side	0mm	Ant 4	ECI 6	376500	1882.5	1	20.91	21.80	1.227	-	-	-0.01	1.970	2.417
	FR1 n25	40M	BPSK	1	1	Main PA	Front	9mm	Ant 0	ECI 4	376500	1882.5	1	23.05	24.00	1.245	-	-	0.06	0.401	0.499
	FR1 n25	40M	BPSK	108	54	Main PA	Front	9mm	Ant 0	ECI 4	376500	1882.5	1	23.00	24.00	1.259	-	-	0.14	0.374	0.471
	FR1 n25	40M	BPSK	1	1	Main PA	Back	19mm	Ant 0	ECI 4	376500	1882.5	1	23.05	24.00	1.245	-	-	0.02	0.106	0.132
	FR1 n25	40M	BPSK	108	54	Main PA	Back	19mm	Ant 0	ECI 4	376500	1882.5	1	23.00	24.00	1.259	-	-	0.09	0.101	0.127
	FR1 n25	40M	BPSK	1	1	Main PA	Bottom Side	15mm	Ant 0	ECI 4	376500	1882.5	1	23.05	24.00	1.245	-	-	0.11	0.220	0.274
	FR1 n25	40M	BPSK	108	54	Main PA	Bottom Side	15mm	Ant 0	ECI 4	376500	1882.5	1	23.00	24.00	1.259	-	-	0.15	0.208	0.262
	FR1 n25	40M	BPSK	1	1	Main PA	Front	0mm	Ant 0	ECI 6	376500	1882.5	1	23.05	23.90	1.216	-	-	-0.07	1.710	2.079
	FR1 n25	40M	BPSK	108	54	Main PA	Front	0mm	Ant 0	ECI 6	376500	1882.5	1	23.00	23.90	1.230	-	-	-0.06	1.740	2.140
	FR1 n25	40M	BPSK	216	0	Main PA	Front	0mm	Ant 0	ECI 6	376500	1882.5	1	22.49	23.50	1.262	-	-	-0.02	1.510	1.906



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117	FR1 n25	40M	BPSK	1	1	Main PA	Back	0mm	Ant 0	ECI 6	376500	1882.5	1	23.05	23.90	1.216	-	-	0.00	2.630	3.198
	FR1 n25	40M	BPSK	108	54	Main PA	Back	0mm	Ant 0	ECI 6	376500	1882.5	1	23.00	23.90	1.230	-	-	0.18	2.460	3.026
	FR1 n25	40M	BPSK	216	0	Main PA	Back	0mm	Ant 0	ECI 6	376500	1882.5	1	22.49	23.50	1.262	-	-	0.04	2.110	2.663
	FR1 n25	40M	BPSK	1	1	Main PA	Bottom Side	0mm	Ant 0	ECI 6	376500	1882.5	1	23.05	23.90	1.216	-	-	0.19	1.340	1.629
	FR1 n25	40M	BPSK	108	54	Main PA	Bottom Side	0mm	Ant 0	ECI 6	376500	1882.5	1	23.00	23.90	1.230	-	-	-0.12	1.400	1.722
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Back	0mm	Ant 0	ECI 6	376500	1882.5	1	22.96	23.90	1.242	-	-	0.17	2.350	2.919
	FR1 n25	40M	BPSK	1	1	PA (Reference Designator)	Back	0mm	Ant 0	ECI 6	376500	1882.5	2	23.05	23.90	1.216	-	-	0.03	2.570	3.125
	FR1 n26	20M	BPSK	1	1	-	Back	0mm	Ant 0	ECI 6	166300	831.5	1	23.15	24.00	1.216	-	-	-0.06	1.190	1.447
118	FR1 n26	20M	BPSK	50	28	-	Back	0mm	Ant 0	ECI 6	166300	831.5	1	23.10	24.00	1.230	-	-	0.00	1.180	1.451
119	FR1 n30	10M	BPSK	1	1	-	Back	0mm	Ant 1	ECI 6	462000	2310	1	23.15	24.00	1.216	-	-	0.00	2.490	3.028
	FR1 n30	10M	BPSK	25	14	-	Back	0mm	Ant 1	ECI 6	462000	2310	1	23.08	24.00	1.236	-	-	-0.14	2.390	2.954
	FR1 n30	10M	BPSK	50	0	-	Back	0mm	Ant 1	ECI 6	462000	2310	1	22.57	23.50	1.239	-	-	0.13	2.110	2.614
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Back	16mm	Ant 4	ECI 4	349000	1745	1	22.59	24.00	1.384	-	-	0.02	0.128	0.177
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Top Side	13mm	Ant 4	ECI 4	349000	1745	1	22.59	24.00	1.384	-	-	0.06	0.261	0.361
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Back	0mm	Ant 4	ECI 6	349000	1745	1	21.58	22.10	1.127	-	-	0.11	1.230	1.386
	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Back	0mm	Ant 4	ECI 6	349000	1745	1	21.54	22.10	1.138	-	-	-0.02	1.360	1.548
	FR1 n66	45M	BPSK	1	120	PA (Reference Designator)	Top Side	0mm	Ant 4	ECI 6	349000	1745	1	21.58	22.10	1.127	-	-	-0.10	1.910	2.153
	FR1 n66	45M	BPSK	240	0	PA (Reference Designator)	Top Side	0mm	Ant 4	ECI 6	349000	1745	1	21.51	22.10	1.146	-	-	-0.16	1.910	2.189
120	FR1 n66	45M	BPSK	120	60	PA (Reference Designator)	Top Side	0mm	Ant 4	ECI 6	349000	1745	1	21.54	22.10	1.138	-	-	-0.02	2.150	2.447
	FR1 n66	45M	BPSK	120	60	Main PA	Top Side	0mm	Ant 4	ECI 6	349000	1745	1	21.11	22.10	1.256	-	-	0.06	1.930	2.424
	FR1 n66	45M	BPSK	1	1	Main PA	Front	0mm	Ant 0	ECI 6	349000	1745	1	23.10	24.00	1.230	-	-	-0.07	1.390	1.710
	FR1 n66	45M	BPSK	120	60	Main PA	Front	0mm	Ant 0	ECI 6	349000	1745	1	23.03	24.00	1.250	-	-	0.05	1.520	1.900
	FR1 n66	45M	BPSK	1	1	Main PA	Back	0mm	Ant 0	ECI 6	349000	1745	1	23.10	24.00	1.230	-	-	-0.17	1.920	2.362
	FR1 n66	45M	BPSK	120	60	Main PA	Back	0mm	Ant 0	ECI 6	349000	1745	1	23.03	24.00	1.250	-	-	-0.08	1.910	2.388
	FR1 n66	45M	BPSK	240	0	Main PA	Back	0mm	Ant 0	ECI 6	349000	1745	1	22.46	23.50	1.271	-	-	0.04	1.690	2.148
	FR1 n66	45M	BPSK	1	1	Main PA	Bottom Side	0mm	Ant 0	ECI 6	349000	1745	1	23.10	24.00	1.230	-	-	-0.13	1.150	1.415
	FR1 n66	45M	BPSK	120	60	Main PA	Bottom Side	0mm	Ant 0	ECI 6	349000	1745	1	23.03	24.00	1.250	-	-	-0.16	1.250	1.563
	FR1 n66	45M	BPSK	1	1	PA (Reference Designator)	Back	0mm	Ant 0	ECI 6	349000	1745	1	23.00	24.00	1.259	-	-	0.19	1.460	1.838
	FR1 n70	15M	BPSK	1	1	-	Top Side	0mm	Ant 4	ECI 6	340500	1702.5	1	21.99	23.00	1.262	-	-	-0.11	1.880	2.373
121	FR1 n70	15M	BPSK	36	22	-	Top Side	0mm	Ant 4	ECI 6	340500	1702.5	1	21.96	23.00	1.271	-	-	-0.02	1.940	2.466
	FR1 n70	15M	BPSK	75	0	-	Top Side	0mm	Ant 4	ECI 6	340500	1702.5	1	21.43	22.50	1.279	-	-	-0.07	1.700	2.174
	FR1 n70	15M	BPSK	1	1	-	Front	0mm	Ant 0	ECI 6	340500	1702.5	1	23.01	24.00	1.256	-	-	0.11	1.240	1.557
	FR1 n70	15M	BPSK	36	22	-	Front	0mm	Ant 0	ECI 6	340500	1702.5	1	22.96	24.00	1.271	-	-	0.01	1.220	1.551
	FR1 n70	15M	BPSK	1	1	-	Back	0mm	Ant 0	ECI 6	340500	1702.5	1	23.01	24.00	1.256	-	-	-0.14	1.730	2.173
	FR1 n70	15M	BPSK	36	22	-	Back	0mm	Ant 0	ECI 6	340500	1702.5	1	22.96	24.00	1.271	-	-	-0.03	1.630	2.072
	FR1 n70	15M	BPSK	75	0	-	Back	0mm	Ant 0	ECI 6	340500	1702.5	1	22.43	23.50	1.279	-	-	0.16	1.280	1.637
	FR1 n70	15M	BPSK	1	1	-	Bottom Side	0mm	Ant 0	ECI 6	340500	1702.5	1	23.01	24.00	1.256	-	-	0.08	1.230	1.545
	FR1 n70	15M	BPSK	36	22	-	Bottom Side	0mm	Ant 0	ECI 6	340500	1702.5	1	22.96	24.00	1.271	-	-	0.19	1.070	1.360
	FR1 n41	100M	BPSK	1	1	-	Front	0mm	Ant 1	ECI 6	518598	2592.99	1	23.06	24.00	1.242	-	-	0.16	1.520	1.888
	FR1 n41	100M	BPSK	135	69	-	Front	0mm	Ant 1	ECI 6	518598	2592.99	1	22.91	24.00	1.285	-	-	-0.10	1.540	1.979
	FR1 n41	100M	BPSK	1	1	-	Back	0mm	Ant 1	ECI 6	518598	2592.99	1	23.06	24.00	1.242	-	-	0.06	1.830	2.273
	FR1 n41	100M	BPSK	135	69	-	Back	0mm	Ant 1	ECI 6	518598	2592.99	1	22.91	24.00	1.285	-	-	0.14	2.320	2.981
	FR1 n41	100M	BPSK	270	0	-	Back	0mm	Ant 1	ECI 6	518598	2592.99	1	22.98	24.00	1.265	-	-	0.00	2.010	2.543
	FR1 n41	100M	BPSK	1	1	-	Bottom Side	0mm	Ant 1	ECI 6	518598	2592.99	1	23.06	24.00	1.242	-	-	0.08	1.050	1.304
	FR1 n41	100M	BPSK	135	69	-	Bottom Side	0mm	Ant 1	ECI 6	518598	2592.99	1	22.91	24.00	1.285	-	-	0.18	0.963	1.237
	FR1 n41 HPUE	100M	BPSK	135	69	-	Back	0mm	Ant 1	ECI 6	518598	2592.99	1	25.77	27.00	1.327	50.0	1.000	0.00	1.880	2.495
122	FR1 n41 HPUE	100M	BPSK	135	69	-	Back	0mm	Ant 1	ECI 6	518598	2592.99	1	25.77	27.00	1.327	50.0	1.000	-0.01	2.330	3.092
	FR1 n41	100M	BPSK	135	69	Main PA	Front	7mm	Ant 4	ECI 4	518598	2592.99	1	22.42	24.00	1.439	-	-	0.06	0.461	0.663
	FR1 n41	100M	BPSK	135	69	Main PA	Back	16mm	Ant 4	ECI 4	518598	2592.99	1	22.42	24.00	1.439	-	-	0.05	0.257	0.370
	FR1 n41	100M	BPSK	135	69	Main PA	Top Side	13mm	Ant 4	ECI 4	518598	2592.99	1	22.42	24.00	1.439	-	-	0.01	0.584	0.840



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	FR1 n41	100M	BPSK	1	1	Main PA	Front	0mm	Ant 4	ECI 6	518598	2592.99	1	21.70	22.80	1.288	-	-	-0.17	1.440	1.855
	FR1 n41	100M	BPSK	135	69	Main PA	Front	0mm	Ant 4	ECI 6	518598	2592.99	1	21.68	22.80	1.294	-	-	0.16	1.590	2.057
	FR1 n41	100M	BPSK	270	0	Main PA	Front	0mm	Ant 4	ECI 6	518598	2592.99	1	21.65	22.80	1.303	-	-	-0.06	1.550	2.020
	FR1 n41	100M	BPSK	1	1	Main PA	Back	0mm	Ant 4	ECI 6	518598	2592.99	1	21.70	22.80	1.288	-	-	-0.04	1.580	2.035
	FR1 n41	100M	BPSK	135	69	Main PA	Back	0mm	Ant 4	ECI 6	518598	2592.99	1	21.68	22.80	1.294	-	-	-0.08	1.550	2.006
	FR1 n41	100M	BPSK	270	0	Main PA	Back	0mm	Ant 4	ECI 6	518598	2592.99	1	21.65	22.80	1.303	-	-	-0.10	1.520	1.981
	FR1 n41	100M	BPSK	1	1	Main PA	Top Side	0mm	Ant 4	ECI 6	518598	2592.99	1	21.70	22.80	1.288	-	-	0.14	1.530	1.971
	FR1 n41	100M	BPSK	135	69	Main PA	Top Side	0mm	Ant 4	ECI 6	518598	2592.99	1	21.68	22.80	1.294	-	-	-0.19	1.450	1.876
	FR1 n41 HPUE	100M	BPSK	135	69	Main PA	Front	0mm	Ant 4	ECI 6	518598	2592.99	1	24.75	25.80	1.274	50.0	1.000	-0.05	1.690	2.153
	FR1 n41 HPUE	100M	BPSK	135	69	PA (Reference Designator)	Front	0mm	Ant 4	ECI 6	518598	2592.99	1	24.69	25.80	1.291	50.0	1.000	0.00	1.610	2.079
	FR1 n41 HPUE	100M	BPSK	135	69	Main PA	Top Side	13mm	Ant 4	ECI 4	518598	2592.99	1	25.27	27.00	1.489	-	-	0.06	0.561	0.835
	FR1 n48	40M	BPSK	50	28	-	Front	9mm	Ant 5	ECI 4	641666	3624.99	1	22.90	24.00	1.288	-	-	0.05	0.233	0.300
	FR1 n48	40M	BPSK	50	28	-	Back	13mm	Ant 5	ECI 4	641666	3624.99	1	22.90	24.00	1.288	-	-	0.01	0.268	0.345
	FR1 n48	40M	BPSK	50	28	-	Top Side	12mm	Ant 5	ECI 4	641666	3624.99	1	22.90	24.00	1.288	-	-	-0.02	0.176	0.227
	FR1 n48	40M	BPSK	1	1	-	Front	0mm	Ant 5	ECI 6	641666	3624.99	1	22.21	22.70	1.119	-	-	-0.05	1.860	2.081
	FR1 n48	40M	BPSK	1	1	-	Front	0mm	Ant 5	ECI 6	638000	3570	1	22.18	22.70	1.127	-	-	-0.05	1.760	1.984
	FR1 n48	40M	BPSK	1	1	-	Front	0mm	Ant 5	ECI 6	645332	3679.98	1	22.16	22.70	1.132	-	-	-0.02	1.780	2.015
	FR1 n48	40M	BPSK	100	0	-	Front	0mm	Ant 5	ECI 6	641666	3624.99	1	20.85	22.00	1.303	-	-	-0.08	1.160	1.511
	FR1 n48	40M	BPSK	50	28	-	Front	0mm	Ant 5	ECI 6	641666	3624.99	1	22.19	22.70	1.125	-	-	-0.15	1.760	1.980
	FR1 n48	40M	BPSK	50	28	-	Front	0mm	Ant 5	ECI 6	638000	3570	1	22.14	22.70	1.138	-	-	-0.09	1.750	1.992
	FR1 n48	40M	BPSK	50	28	-	Front	0mm	Ant 5	ECI 6	645332	3679.98	1	22.11	22.70	1.146	-	-	0.17	1.830	2.097
	FR1 n48	40M	BPSK	1	1	-	Back	0mm	Ant 5	ECI 6	641666	3624.99	1	22.21	22.70	1.119	-	-	-0.15	0.853	0.955
	FR1 n48	40M	BPSK	50	28	-	Back	0mm	Ant 5	ECI 6	641666	3624.99	1	22.19	22.70	1.125	-	-	-0.06	0.911	1.025
	FR1 n48	40M	BPSK	1	1	-	Top Side	0mm	Ant 5	ECI 6	641666	3624.99	1	22.21	22.70	1.119	-	-	-0.08	1.970	2.204
	FR1 n48	40M	BPSK	1	1	-	Top Side	0mm	Ant 5	ECI 6	638000	3570	1	22.18	22.70	1.127	-	-	-0.03	1.860	2.096
	FR1 n48	40M	BPSK	1	1	-	Top Side	0mm	Ant 5	ECI 6	645332	3679.98	1	22.16	22.70	1.132	-	-	-0.02	2.010	2.275
	FR1 n48	40M	BPSK	100	0	-	Top Side	0mm	Ant 5	ECI 6	641666	3624.99	1	20.85	22.00	1.303	-	-	0.03	1.280	1.668
	FR1 n48	40M	BPSK	50	28	-	Top Side	0mm	Ant 5	ECI 6	641666	3624.99	1	22.19	22.70	1.125	-	-	-0.09	2.000	2.250
	FR1 n48	40M	BPSK	50	28	-	Top Side	0mm	Ant 5	ECI 6	638000	3570	1	22.14	22.70	1.138	-	-	-0.02	1.930	2.196
	FR1 n48	40M	BPSK	50	28	-	Top Side	0mm	Ant 5	ECI 6	645332	3679.98	1	22.11	22.70	1.146	-	-	0.00	2.140	2.452
	FR1 n48	40M	BPSK	50	28	-	Top Side	0mm	Ant 5	ECI 6	645332	3679.98	2	22.11	22.70	1.146	-	-	0.06	1.910	2.189
	FR1 n48	40M	BPSK	1	1	-	Back	3mm	Ant 8	ECI 4	641666	3624.99	1	22.29	24.00	1.483	-	-	0.06	0.644	0.955
	FR1 n48	40M	BPSK	1	1	-	Back	0mm	Ant 8	ECI 6	641666	3624.99	1	20.35	20.90	1.135	-	-	-0.07	1.880	2.134
	FR1 n48	40M	BPSK	1	1	-	Back	0mm	Ant 8	ECI 6	638000	3570	1	20.29	20.90	1.151	-	-	-0.07	1.750	2.014
	FR1 n48	40M	BPSK	1	1	-	Back	0mm	Ant 8	ECI 6	645332	3679.98	1	20.32	20.90	1.143	-	-	-0.18	2.060	2.355
	FR1 n48	40M	BPSK	50	28	-	Back	0mm	Ant 8	ECI 6	641666	3624.99	1	20.31	20.90	1.146	-	-	0.18	1.940	2.223
	FR1 n48	40M	BPSK	50	28	-	Back	0mm	Ant 8	ECI 6	638000	3570	1	20.26	20.90	1.159	-	-	-0.04	1.800	2.086
123	FR1 n48	40M	BPSK	50	28	-	Back	0mm	Ant 8	ECI 6	645332	3679.98	1	20.30	20.90	1.148	-	-	0.01	2.150	2.468
	FR1 n48	40M	BPSK	100	0	-	Back	0mm	Ant 8	ECI 6	641666	3624.99	1	20.28	20.90	1.153	-	-	0.05	1.240	1.430
	FR1 n48	40M	BPSK	50	28	-	Back	0mm	Ant 8	ECI 6	645332	3679.98	2	20.30	20.90	1.148	-	-	-0.03	2.140	2.457
	FR1 n77 (270)	100M	BPSK	1	1	-	Front	0mm	Ant 3	ECI 6	655668	3835.02	1	18.47	19.00	1.130	-	-	0.06	0.455	0.514
	FR1 n77 (270)	100M	BPSK	135	69	-	Front	0mm	Ant 3	ECI 6	655668	3835.02	1	18.20	19.00	1.202	-	-	0.02	0.419	0.504
	FR1 n77 (270)	100M	BPSK	1	1	-	Back	0mm	Ant 3	ECI 6	655668	3835.02	1	18.47	19.00	1.130	-	-	0.01	1.300	1.469
	FR1 n77 (270)	100M	BPSK	135	69	-	Back	0mm	Ant 3	ECI 6	655668	3835.02	1	18.20	19.00	1.202	-	-	0.19	1.190	1.430
	FR1 n77 (270)	100M	BPSK	1	1	-	Left Side	0mm	Ant 3	ECI 6	655668	3835.02	1	18.47	19.00	1.130	-	-	0.14	0.962	1.087
	FR1 n77 (270)	100M	BPSK	135	69	-	Left Side	0mm	Ant 3	ECI 6	655668	3835.02	1	18.20	19.00	1.202	-	-	0.05	0.948	1.139
	FR1 n77 (270) HPUE	100M	BPSK	1	1	-	Back	0mm	Ant 3	ECI 6	655668	3835.02	1	21.36	22.00	1.159	50.0	1.000	0.06	1.250	1.449
	FR1 n77 (270)	100M	BPSK	1	1	-	Back	0mm	Ant 3	ECI 6	655668	3835.02	2	18.47	19.00	1.130	-	-	-0.08	1.210	1.367
	FR1 n77 (270)	100M	BPSK	1	1	-	Front	9mm	Ant 5	ECI 4	661334	3920.01	1	22.89	24.00	1.291	-	-	0.01	0.319	0.412
	FR1 n77 (270)	100M	BPSK	135	69	-	Front	9mm	Ant 5	ECI 4	661334	3920.01	1	22.70	24.00	1.349	-	-	0.06	0.306	0.413
	FR1 n77 (270)	100M	BPSK	1	1	-	Back	13mm	Ant 5	ECI 4	661334	3920.01	1	22.89	24.00	1.291	-	-	0.14	0.412	0.532
	FR1 n77	100M	BPSK	135	69	-	Back	13mm	Ant 5	ECI 4	661334	3920.01	1	22.70	24.00	1.349	-	-	0.05	0.395	0.533



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	(27Q)																				
	FR1 n77 (27Q)	100M	BPSK	1	1	-	Top Side	12mm	Ant 5	ECI 4	661334	3920.01	1	22.89	24.00	1.291	-	-	0.19	0.257	0.332
	FR1 n77 (27Q)	100M	BPSK	135	69	-	Top Side	12mm	Ant 5	ECI 4	661334	3920.01	1	22.70	24.00	1.349	-	-	0.02	0.236	0.318
	FR1 n77 (27Q) HPUE	100M	BPSK	135	69	-	Back	13mm	Ant 5	ECI 4	661334	3920.01	1	25.59	27.00	1.384	50.0	1.000	0.08	0.378	0.523
	FR1 n77 (27Q)	100M	BPSK	1	1	-	Front	0mm	Ant 5	ECI 6	633332	3499.98	1	22.22	23.40	1.312	-	-	0.16	1.550	2.034
	FR1 n77 (27Q)	100M	BPSK	135	69	-	Front	0mm	Ant 5	ECI 6	633332	3499.98	1	22.19	23.40	1.321	-	-	-0.05	1.390	1.836
	FR1 n77 (27Q)	100M	BPSK	270	0	-	Front	0mm	Ant 5	ECI 6	633332	3499.98	1	22.14	23.40	1.337	-	-	-0.07	1.380	1.845
	FR1 n77 (27Q)	100M	BPSK	1	1	-	Back	0mm	Ant 5	ECI 6	633332	3499.98	1	22.22	23.40	1.312	-	-	0.15	1.220	1.601
	FR1 n77 (27Q)	100M	BPSK	135	69	-	Back	0mm	Ant 5	ECI 6	633332	3499.98	1	22.19	23.40	1.321	-	-	-0.07	1.100	1.453
	FR1 n77 (27Q)	100M	BPSK	1	1	-	Top Side	0mm	Ant 5	ECI 6	633332	3499.98	1	22.22	23.40	1.312	-	-	0.16	1.430	1.876
	FR1 n77 (27Q)	100M	BPSK	135	69	-	Top Side	0mm	Ant 5	ECI 6	633332	3499.98	1	22.19	23.40	1.321	-	-	0.13	1.760	2.325
	FR1 n77 (27Q)	100M	BPSK	270	0	-	Top Side	0mm	Ant 5	ECI 6	633332	3499.98	1	22.14	23.40	1.337	-	-	-0.01	1.450	1.939
124	FR1 n77 (27Q) HPUE	100M	BPSK	135	69	-	Top Side	0mm	Ant 5	ECI 6	633332	3499.98	1	24.77	26.40	1.455	50.0	1.000	0.01	1.680	2.444
	FR1 n77 (27Q)	100M	BPSK	1	1	-	Back	0mm	Ant 8	ECI 6	633332	3499.98	1	19.77	20.60	1.211	-	-	-0.04	1.940	2.349
	FR1 n77 (27Q)	100M	BPSK	135	69	-	Back	0mm	Ant 8	ECI 6	633332	3499.98	1	19.69	20.60	1.233	-	-	-0.10	1.460	1.800
	FR1 n77 (27Q)	100M	BPSK	270	0	-	Back	0mm	Ant 8	ECI 6	633332	3499.98	1	19.52	20.60	1.282	-	-	0.08	1.900	2.436
	FR1 n77 (27Q) HPUE	100M	BPSK	270	0	-	Back	0mm	Ant 8	ECI 6	633332	3499.98	1	22.63	23.60	1.250	50.0	1.000	0.09	1.910	2.388
	FR1 n77 (27Q)	100M	BPSK	1	1	-	Back	3mm	Ant 8	ECI 4	633332	3499.98	1	24.32	25.00	1.169	-	-	0.02	1.140	1.333

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
WLAN																	
125	2.4GHz WLAN	802.11b 1Mbps	Front	0mm	Ant 6	Standalone	11	2462	1	22.01	23.00	1.256	99.5	1.005	0.04	1.370	1.729
	2.4GHz WLAN	802.11b 1Mbps	Back	0mm	Ant 6	Standalone	11	2462	1	22.01	23.00	1.256	99.5	1.005	0.10	1.000	1.262
	2.4GHz WLAN	802.11b 1Mbps	Front	0mm	Ant 6	Standalone	11	2462	2	22.01	23.00	1.256	99.5	1.005	0.01	1.250	1.578
	2.4GHz WLAN	802.11b 1Mbps	Front	0mm	Ant 6	Simultaneous	11	2462	1	17.02	18.00	1.253	99.5	1.005	0.06	0.705	0.888
	2.4GHz WLAN	802.11b 1Mbps	Back	0mm	Ant 6	Simultaneous	11	2462	1	17.02	18.00	1.253	99.5	1.005	0.06	0.295	0.371
	2.4GHz WLAN	802.11b 1Mbps	Front	9mm	Ant 6	Full Power	11	2462	1	22.01	23.00	1.256	99.5	1.005	0.05	0.242	0.305
	2.4GHz WLAN	802.11b 1Mbps	Back	13mm	Ant 6	Full Power	11	2462	1	22.01	23.00	1.256	99.5	1.005	0.02	0.154	0.194
	5.3GHz WLAN	802.11n-HT40 MCS0	Front	0mm	Ant 6	Standalone	54	5270	1	18.26	20.00	1.493	93.9	1.065	-0.12	1.030	1.638
	5.3GHz WLAN	802.11n-HT40 MCS0	Back	0mm	Ant 6	Standalone	54	5270	1	18.26	20.00	1.493	93.9	1.065	0.11	0.840	1.336
	5.3GHz WLAN	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	Standalone	54	5270	1	18.26	20.00	1.493	93.9	1.065	0.10	0.733	1.166
126	5.3GHz WLAN	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Standalone	54	5270	1	18.26	20.00	1.493	96.9	1.032	-0.01	1.600	2.465
	5.3GHz WLAN	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Standalone	54	5270	2	18.26	20.00	1.493	93.9	1.065	-0.06	1.490	2.369
	5.3GHz WLAN	802.11a 6Mbps	Left Side	0mm	Ant 6	Full Power	52	5260	1	19.43	21.00	1.435	96.9	1.032	0.05	0.073	0.108
	5.3GHz WLAN	802.11a 6Mbps	Bottom Side	0mm	Ant 6	Full Power	52	5260	1	19.43	21.00	1.435	96.9	1.032	0.08	0.021	0.031
	5.3GHz WLAN	802.11a 6Mbps	Front	9mm	Ant 6	Full Power	52	5260	1	19.43	21.00	1.435	96.9	1.032	0.05	0.297	0.440
	5.3GHz WLAN	802.11a 6Mbps	Back	13mm	Ant 6	Full Power	52	5260	1	19.43	21.00	1.435	96.9	1.032	0.02	0.244	0.361
	5.3GHz WLAN	802.11a 6Mbps	Right Side	8mm	Ant 6	Full Power	52	5260	1	19.43	21.00	1.435	96.9	1.032	0.06	0.364	0.539
	5.3GHz WLAN	802.11a 6Mbps	Top Side	12mm	Ant 6	Full Power	52	5260	1	19.43	21.00	1.435	96.9	1.032	0.05	0.456	0.675
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	Simultaneous	58	5290	1	13.52	14.50	1.253	88.0	1.136	0.08	0.397	0.565
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	58	5290	1	13.52	14.50	1.253	88.0	1.136	0.05	0.324	0.461
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	Simultaneous	58	5290	1	13.52	14.50	1.253	88.0	1.136	0.13	0.283	0.403
	5.3GHz WLAN	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6	Simultaneous	58	5290	1	13.52	14.50	1.253	88.0	1.136	0.02	0.617	0.878
	5.5GHz WLAN	802.11a 6Mbps	Left Side	0mm	Ant 6	Full Power	116	5580	1	20.52	22.00	1.406	96.9	1.032	0.05	0.049	0.071
	5.5GHz WLAN	802.11a 6Mbps	Bottom Side	0mm	Ant 6	Full Power	116	5580	1	20.52	22.00	1.406	96.9	1.032	0.02	0.024	0.035
	5.5GHz WLAN	802.11n-HT40 MCS0	Front	0mm	Ant 6	Standalone	110	5550	1	19.11	21.00	1.545	93.9	1.065	-0.04	0.752	1.237
	5.5GHz WLAN	802.11n-HT40 MCS0	Back	0mm	Ant 6	Standalone	110	5550	1	19.11	21.00	1.545	93.9	1.065	0.15	0.604	0.994



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	5.5GHz WLAN	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	Standalone	110	5550	1	19.11	21.00	1.545	93.9	1.065	-0.01	0.591	0.972
127	5.5GHz WLAN	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Standalone	110	5550	1	19.11	21.00	1.545	93.9	1.065	-0.03	1.530	2.518
	5.5GHz WLAN	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Standalone	126	5630	1	19.00	20.50	1.413	93.9	1.065	-0.03	1.600	2.408
	5.5GHz WLAN	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Standalone	142	5710	1	18.99	20.50	1.416	93.9	1.065	-0.18	1.150	1.734
	5.5GHz WLAN	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Standalone	134	5670	1	18.50	20.00	1.413	93.9	1.065	0.00	1.030	1.550
	5.5GHz WLAN	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Standalone	102	5510	1	16.50	18.00	1.413	93.9	1.065	-0.16	0.700	1.053
	5.5GHz WLAN	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Standalone	110	5550	2	19.11	21.00	1.545	93.9	1.065	0.02	1.400	2.304
	5.5GHz WLAN	802.11a 6Mbps	Front	9mm	Ant 6	Full Power	116	5580	1	20.52	22.00	1.406	96.9	1.032	0.06	0.229	0.332
	5.5GHz WLAN	802.11a 6Mbps	Back	13mm	Ant 6	Full Power	116	5580	1	20.52	22.00	1.406	96.9	1.032	0.02	0.190	0.276
	5.5GHz WLAN	802.11a 6Mbps	Right Side	8mm	Ant 6	Full Power	116	5580	1	20.52	22.00	1.406	96.9	1.032	-0.05	0.301	0.437
	5.5GHz WLAN	802.11a 6Mbps	Top Side	12mm	Ant 6	Full Power	116	5580	1	20.52	22.00	1.406	96.9	1.032	0.08	0.366	0.531
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	Simultaneous	122	5610	1	14.63	16.00	1.371	88.0	1.136	-0.18	0.277	0.431
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	122	5610	1	14.63	16.00	1.371	88.0	1.136	0.13	0.222	0.346
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	Simultaneous	122	5610	1	14.63	16.00	1.371	88.0	1.136	-0.10	0.217	0.338
	5.5GHz WLAN	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6	Simultaneous	122	5610	1	14.63	16.00	1.371	88.0	1.136	0.05	0.563	0.877
	5.8GHz WLAN	802.11a 6Mbps	Front	0mm	Ant 6	Standalone	157	5785	1	20.06	21.50	1.393	96.9	1.032	0.18	1.150	1.653
	5.8GHz WLAN	802.11a 6Mbps	Back	0mm	Ant 6	Standalone	157	5785	1	20.06	21.50	1.393	96.9	1.032	0.10	0.749	1.077
	5.8GHz WLAN	802.11a 6Mbps	Right Side	0mm	Ant 6	Standalone	157	5785	1	20.06	21.50	1.393	96.9	1.032	0.05	0.700	1.006
	5.8GHz WLAN	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	157	5785	1	20.06	21.50	1.393	96.9	1.032	0.06	1.750	2.516
128	5.8GHz WLAN	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	149	5745	1	19.92	21.50	1.439	96.9	1.032	-0.03	1.900	2.822
	5.8GHz WLAN	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	165	5825	1	19.86	21.50	1.459	96.9	1.032	-0.10	1.510	2.274
	5.8GHz WLAN	802.11a 6Mbps	Top Side	0mm	Ant 6	Standalone	149	5745	2	19.92	21.50	1.439	96.9	1.032	-0.10	1.640	2.435
	5.8GHz WLAN	802.11a 6Mbps	Front	9mm	Ant 6	Full Power	157	5785	1	20.54	22.00	1.400	96.9	1.032	0.05	0.288	0.416
	5.8GHz WLAN	802.11a 6Mbps	Back	13mm	Ant 6	Full Power	157	5785	1	20.54	22.00	1.400	96.9	1.032	0.06	0.223	0.322
	5.8GHz WLAN	802.11a 6Mbps	Right Side	8mm	Ant 6	Full Power	157	5785	1	20.54	22.00	1.400	96.9	1.032	0.01	0.299	0.432
	5.8GHz WLAN	802.11a 6Mbps	Top Side	12mm	Ant 6	Full Power	157	5785	1	20.54	22.00	1.400	96.9	1.032	-0.10	0.518	0.748
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	Simultaneous	155	5775	1	13.42	15.00	1.439	88.0	1.136	-0.12	0.318	0.520
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	155	5775	1	13.42	15.00	1.439	88.0	1.136	-0.08	0.207	0.338
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	Simultaneous	155	5775	1	13.42	15.00	1.439	88.0	1.136	0.06	0.193	0.315
	5.8GHz WLAN	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6	Simultaneous	155	5775	1	13.42	15.00	1.439	88.0	1.136	0.18	0.525	0.858

<NFC SAR>

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Sample	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)
	NFC	ASK	Front	0mm	Ant 10	0	13.56	1	100.0	1.000	0.05	0.001
129	NFC	ASK	Back	0mm	Ant 10	0	13.56	1	100.0	1.000	-0.07	0.029
	NFC	ASK	Left Side	0mm	Ant 10	0	13.56	1	100.0	1.000	0.01	0.001
	NFC	ASK	Right Side	0mm	Ant 10	0	13.56	1	100.0	1.000	-0.02	0.001
	NFC	ASK	Top Side	0mm	Ant 10	0	13.56	1	100.0	1.000	0.02	0.001
	NFC	ASK	Bottom Side	0mm	Ant 10	0	13.56	1	100.0	1.000	-0.01	0.001



15.5 Repeated SAR Measurement

【Repeat SAR 1g - FCC】

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Ratio
1st	LTE Band 13	10M_QPSK_1	Back	5.0	Ant 0	ECI 3	23230	782	1	22.95	24.00	1.274			-0.02	0.999	1.273	-
2nd	LTE Band 13	10M_QPSK_1	Back	5.0	Ant 0	ECI 3	23230	782	1	22.95	24.00	1.274			0.06	0.975	1.242	1.03
1st	LTE Band 14	10M_QPSK_1	Back	5.0	Ant 0	ECI 7	23330	793	1	23.01	24.00	1.256			-0.01	0.998	1.253	-
2nd	LTE Band 14	10M_QPSK_1	Back	5.0	Ant 0	ECI 7	23330	793	1	23.01	24.00	1.256			0.05	0.983	1.235	1.01
1st	WCDMA V	RMC 12.2Kbps	Back	5.0	Ant 0	ECI 3	4132	826.4	1	23.33	24.00	1.167			-0.01	1.050	1.225	-
2nd	WCDMA V	RMC 12.2Kbps	Back	5.0	Ant 0	ECI 3	4132	826.4	1	23.33	24.00	1.167			-0.05	1.020	1.190	1.03
1st	LTE Band 66	20M_QPSK_1	Back	5.0	Ant 0	ECI 3	132322	1745	1	20.66	21.50	1.213			0.09	1.050	1.274	-
2nd	LTE Band 66	20M_QPSK_1	Back	5.0	Ant 0	ECI 3	132322	1745	1	20.66	21.50	1.213			0.08	1.030	1.250	1.02
1st	LTE Band 66	20M_QPSK_1	Back	5.0	Ant 0	ECI 3	132322	1745	1	21.38	21.50	1.028			0.05	1.110	1.141	-
2nd	LTE Band 66	20M_QPSK_1	Back	5.0	Ant 0	ECI 3	132322	1745	1	21.38	21.50	1.028			0.01	1.080	1.110	1.03
1st	WCDMA II	RMC 12.2Kbps	Front	5.0	Ant 0	ECI 3	9400	1880	1	21.68	22.30	1.153			-0.01	1.100	1.268	-
2nd	WCDMA II	RMC 12.2Kbps	Front	5.0	Ant 0	ECI 3	9400	1880	1	21.68	22.30	1.153			0.02	1.070	1.234	1.03
1st	WCDMA II	RMC 12.2Kbps	Front	5.0	Ant 0	ECI 3	9262	1852.4	1	21.65	22.30	1.161			-0.09	1.070	1.242	-
2nd	WCDMA II	RMC 12.2Kbps	Front	5.0	Ant 0	ECI 3	9262	1852.4	1	21.65	22.30	1.161			0.08	1.050	1.219	1.02
1st	LTE Band 30	10M_QPSK_1	Back	5.0	Ant 1	ECI 3	27710	2310	1	21.57	22.50	1.239			-0.10	1.040	1.289	-
2nd	LTE Band 30	10M_QPSK_1	Back	5.0	Ant 1	ECI 3	27710	2310	1	21.57	22.50	1.239			0.02	1.010	1.251	1.03
1st	2.4GHz WLAN	20M_802.11b 1Mbps	Back	5.0	Ant 6	Body worn Standalone	6	2437	1	20.73	22.00	1.340	99.53	1.005	-0.04	0.978	1.317	-
2nd	2.4GHz WLAN	20M_802.11b 1Mbps	Back	5.0	Ant 6	Body worn Standalone	6	2437	1	20.73	22.00	1.340	99.53	1.005	0.01	0.957	1.288	1.02
1st	LTE Band 7	20M_QPSK_1	Back	5.0	Ant 1	ECI 3	21100	2535	1	19.74	20.60	1.219			-0.03	1.040	1.268	-
2nd	LTE Band 7	20M_QPSK_1	Back	5.0	Ant 1	ECI 3	21100	2535	1	19.74	20.60	1.219			0.05	1.020	1.243	1.02
1st	LTE Band 7	20M_QPSK_1	Back	5.0	Ant 1	ECI 3	21350	2560	1	19.68	20.60	1.236			-0.04	1.040	1.285	-
2nd	LTE Band 7	20M_QPSK_1	Back	5.0	Ant 1	ECI 3	21350	2560	1	19.68	20.60	1.236			0.01	1.010	1.248	1.03
1st	FR1 n77_HPUE	100M_BPSK_1_1	Back	5.0	Ant 1	ECI 3	655668	3835	1	26.25	27.00	1.188	50.00	1.000	-0.01	0.891	1.059	-
2nd	FR1 n77_HPUE	100M_BPSK_1_1	Back	5.0	Ant 1	ECI 3	655668	3835	1	26.25	27.00	1.188	50.00	1.000	-0.09	0.876	1.041	1.02
1st	5.3GHz WLAN	80M_802.11ac-VHT80 MCS0	Left Tilted	0.0	Ant 6	Head Standalone	58	5290	1	13.03	13.50	1.114	88.04	1.136	0.01	0.876	1.109	-
2nd	5.3GHz WLAN	80M_802.11ac-VHT80 MCS0	Left Tilted	0.0	Ant 6	Head Standalone	58	5290	1	13.03	13.50	1.114	88.04	1.136	0.05	0.844	1.068	1.04
1st	5.5GHz WLAN	80M_802.11ac-VHT80 MCS0	Left Tilted	0.0	Ant 6	Head Standalone	122	5610	1	14.56	15.50	1.242	88.04	1.136	-0.03	0.809	1.141	-
2nd	5.5GHz WLAN	80M_802.11ac-VHT80 MCS0	Left Tilted	0.0	Ant 6	Head Standalone	122	5610	1	14.56	15.50	1.242	88.04	1.136	0.05	0.796	1.123	1.02
1st	5.8GHz WLAN	80M_802.11ac-VHT80 MCS0	Left Tilted	0.0	Ant 6	Head Standalone	155	5775	1	14.02	14.50	1.117	88.04	1.136	0.04	0.867	1.100	-
2nd	5.8GHz WLAN	80M_802.11ac-VHT80 MCS0	Left Tilted	0.0	Ant 6	Head Standalone	155	5775	1	14.02	14.50	1.117	88.04	1.136	0.02	0.844	1.071	1.03

【Repeat SAR 10g - FCC】

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Ratio
1st	GSM850	GPRS 4 Tx slots	Bottom Side	0.0	Ant 0	ECI 6	128	824.2	1	28.03	29.50	1.403			0.00	2.120	2.974	-
2nd	GSM850	GPRS 4 Tx slots	Bottom Side	0.0	Ant 0	ECI 6	128	824.2	1	28.03	29.50	1.403			0.06	2.080	2.918	1.02
1st	LTE Band 66	20M_QPSK_1	Back	0.0	Ant 0	ECI 6	132572	1770	1	22.96	23.40	1.107			-0.01	2.840	3.144	-
2nd	LTE Band 66	20M_QPSK_1	Back	0.0	Ant 0	ECI 6	132572	1770	1	22.96	23.40	1.107			0.02	2.750	3.043	1.03
1st	LTE Band 25	20M_QPSK_1	Back	0.0	Ant 0	ECI 6	26140	1860	1	22.84	23.80	1.247			0.01	2.490	3.105	-
2nd	LTE Band 25	20M_QPSK_1	Back	0.0	Ant 0	ECI 6	26140	1860	1	22.84	23.80	1.247			-0.06	2.440	3.044	1.02
1st	FR1 n25	40M_BPSK_1_1	Back	0.0	Ant 0	ECI 6	376500	1882.5	1	23.05	23.90	1.216			0.00	2.630	3.198	-
2nd	FR1 n25	40M_BPSK_1_1	Back	0.0	Ant 0	ECI 6	376500	1882.5	1	23.05	23.90	1.216			0.04	2.600	3.162	1.01
1st	FR1 n30	10M_BPSK_1_1	Back	0.0	Ant 1	ECI 6	462000	2310	1	23.15	24.00	1.216			0.00	2.490	3.028	-
2nd	FR1 n30	10M_BPSK_1_1	Back	0.0	Ant 1	ECI 6	462000	2310	1	23.15	24.00	1.216			0.05	2.450	2.980	1.02
1st	FR1 n30	10M_BPSK_50	Back	0.0	Ant 1	ECI 6	462000	2310	1	22.57	23.50	1.239			0.13	2.110	2.614	-
2nd	FR1 n30	10M_BPSK_50	Back	0.0	Ant 1	ECI 6	462000	2310	1	22.57	23.50	1.239			0.02	2.070	2.564	1.02
1st	LTE Band 7	20M_QPSK_1	Back	0.0	Ant 1	ECI 6	21350	2560	1	22.09	23.10	1.262			0.00	2.500	3.155	-
2nd	LTE Band 7	20M_QPSK_1	Back	0.0	Ant 1	ECI 6	21350	2560	1	22.09	23.10	1.262			0.05	2.470	3.117	1.01
1st	FR1 n7	50M_BPSK_135_68	Back	0.0	Ant 1	ECI 6	507000	2535	1	22.64	23.60	1.247			-0.12	2.570	3.205	-
2nd	FR1 n7	50M_BPSK_135_68	Back	0.0	Ant 1	ECI 6	507000	2535	1	22.64	23.60	1.247			0.01	2.550	3.181	1.01
1st	FR1 n48	40M_BPSK_50_28	Back	0.0	Ant 8	ECI 6	645332	3680	1	20.30	20.90	1.148			0.01	2.150	2.468	-
2nd	FR1 n48	40M_BPSK_50_28	Back	0.0	Ant 8	ECI 6	645332	3680	1	20.30	20.90	1.148			0.09	2.110	2.423	1.02

General Note:

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

15.6 Power Class 2 and Power Class 3 Linearity

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41 and FR1 n41/n77. The highest available duty cycle for Power Class 2 operation is 43.3% for LTE and 50% for 5GNR using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

【Head】

LTE Band 41 (2496~2690MHz)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.279	0.405
Duty Cycle (%)	63.3 %	43.3 %
Frame Averaged (mW)	159.0	217.01
Linearity SAR (W/kg)	0.38	
% deviation from Expected Linearity		6.36 %

FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.529	0.573
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.53	
% deviation from Expected Linearity		8.58 %

FR1 n41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.0	24.0
Reported 1g SAR (W/kg)	0.350	0.368
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	0.35	
% deviation from Expected Linearity		5.39 %

FR1 n41_Ant 4	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.0	20.0
Reported 1g SAR (W/kg)	0.759	0.785
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	50.12	50.0
Linearity SAR (W/kg)	0.76	
% deviation from Expected Linearity		3.67 %

FR1 n41_Ant 7	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.0	23.0
Reported 1g SAR (W/kg)	0.707	0.707
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	100.0	99.76
Linearity SAR (W/kg)	0.71	
% deviation from Expected Linearity		0.24 %

FR1 n77 (270)_n77 part 270_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.001	0.001
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.00	
% deviation from Expected Linearity		0.24 %

FR1 n77 (270)_n77 part 270_Ant 3	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.5	22.5
Reported 1g SAR (W/kg)	0.766	0.692
Duty Cycle (%)	100.0 %	50.0 %



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Frame Averaged (m/W)	89.13	88.91
Linearity SAR (W/kg)	0.76	
% deviation from Expected Linearity		-9.44 %

FR1 n77 (270)_n77 part 270 _Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.0	21.0
Reported 1g SAR (W/kg)	0.723	0.786
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	63.1	62.95
Linearity SAR (W/kg)	0.72	
% deviation from Expected Linearity		8.97 %

FR1 n77 (270)_n77 part 270 _Ant 8	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	25.0	26.0
Reported 1g SAR (W/kg)	0.309	0.203
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	316.23	199.05
Linearity SAR (W/kg)	0.19	
% deviation from Expected Linearity		4.37 %

FR1 n77 (27Q)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.001	0.001
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	251.19	250.59
Linearity SAR (W/kg)	0.00	
% deviation from Expected Linearity		0.24 %

FR1 n77 (27Q)_Ant 3	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.5	22.5
Reported 1g SAR (W/kg)	0.616	0.650
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	89.13	88.91
Linearity SAR (W/kg)	0.61	
% deviation from Expected Linearity		5.78 %

FR1 n77 (27Q)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.0	21.0
Reported 1g SAR (W/kg)	0.666	0.666
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	63.1	62.95
Linearity SAR (W/kg)	0.66	
% deviation from Expected Linearity		0.24 %

FR1 n77 (27Q)_Ant 8	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	25.0	26.0
Reported 1g SAR (W/kg)	0.541	0.312
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	316.23	199.05
Linearity SAR (W/kg)	0.34	
% deviation from Expected Linearity		-8.38 %

【Hotspot】

LTE Band 41 (2496~2690MHz)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	25.6
Reported 1g SAR (W/kg)	1.207	1.270
Duty Cycle (%)	63.3 %	43.3 %
Frame Averaged (m/W)	159.0	157.21
Linearity SAR (W/kg)	1.19	
% deviation from Expected Linearity		6.42 %

FR1 n41_Ant 1	Power Class 3	Power Class 2
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Max Tune Up Power (dBm)	22.0	25.0
Reported 1g SAR (W/kg)	1.165	1.244
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	158.49	158.11
Linearity SAR (W/kg)	1.16	
% deviation from Expected Linearity		7.04 %

FR1 n41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.0	18.0
Reported 1g SAR (W/kg)	0.430	0.416
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	31.62	31.55
Linearity SAR (W/kg)	0.43	
% deviation from Expected Linearity		-3.04 %

FR1 n41_Ant 4	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	13.5	16.5
Reported 1g SAR (W/kg)	0.635	0.600
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	22.39	22.33
Linearity SAR (W/kg)	0.63	
% deviation from Expected Linearity		-5.26 %

FR1 n41_Ant 7	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.7	22.7
Reported 1g SAR (W/kg)	0.610	0.578
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	93.33	93.1
Linearity SAR (W/kg)	0.61	
% deviation from Expected Linearity		-5.01 %

FR1 n77 (270)_n77 part 270_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	1.022	1.059
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	251.19	250.59
Linearity SAR (W/kg)	1.02	
% deviation from Expected Linearity		3.87 %

FR1 n77 (270)_n77 part 270_Ant 3	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.5	18.5
Reported 1g SAR (W/kg)	0.405	0.384
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	35.48	35.4
Linearity SAR (W/kg)	0.40	
% deviation from Expected Linearity		-4.97 %

FR1 n77 (270)_n77 part 270_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.5	18.5
Reported 1g SAR (W/kg)	0.370	0.387
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	35.48	35.4
Linearity SAR (W/kg)	0.37	
% deviation from Expected Linearity		4.83 %

FR1 n77 (270)_n77 part 270_Ant 8	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	12.5	15.5
Reported 1g SAR (W/kg)	0.569	0.543
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	17.78	17.74
Linearity SAR (W/kg)	0.57	
% deviation from Expected Linearity		-4.35 %

FR1 n77 (27Q)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.628	0.679

Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	251.19	250.59
Linearity SAR (W/kg)	0.63	
% deviation from Expected Linearity		8.38 %

FR1 n77 (27Q)_Ant 3	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.5	18.5
Reported 1g SAR (W/kg)	0.167	0.150
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	35.48	35.4
Linearity SAR (W/kg)	0.17	
% deviation from Expected Linearity		-9.98 %

FR1 n77 (27Q)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	15.5	18.5
Reported 1g SAR (W/kg)	0.406	0.426
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	35.48	35.4
Linearity SAR (W/kg)	0.41	
% deviation from Expected Linearity		5.16 %

FR1 n77 (27Q)_Ant 8	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	12.5	15.5
Reported 1g SAR (W/kg)	0.484	0.493
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	17.78	17.74
Linearity SAR (W/kg)	0.48	
% deviation from Expected Linearity		2.09 %

【 Body_worn 】

LTE Band 41 (2496~2690MHz)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	25.6
Reported 1g SAR (W/kg)	1.182	1.270
Duty Cycle (%)	63.3 %	43.3 %
Frame Averaged (m/W)	159.0	157.21
Linearity SAR (W/kg)	1.17	
% deviation from Expected Linearity		8.67 %

FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.1	25.1
Reported 1g SAR (W/kg)	1.214	1.273
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	162.18	161.8
Linearity SAR (W/kg)	1.21	
% deviation from Expected Linearity		5.11 %

FR1 n41_Ant 2	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	18.0	21.0
Reported 1g SAR (W/kg)	0.724	0.665
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	63.1	62.95
Linearity SAR (W/kg)	0.72	
% deviation from Expected Linearity		-7.93 %

FR1 n41_Ant 4	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.2	20.2
Reported 1g SAR (W/kg)	0.857	0.877
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	52.48	52.36
Linearity SAR (W/kg)	0.86	
% deviation from Expected Linearity		2.57 %

FR1 n41_Ant 7	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	21.0	24.0
Reported 1g SAR (W/kg)	0.435	0.453
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	125.89	125.59
Linearity SAR (W/kg)	0.43	
% deviation from Expected Linearity		4.39 %

FR1 n77 (270)_n77 part 270_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	1.022	1.059
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	251.19	250.59
Linearity SAR (W/kg)	1.02	
% deviation from Expected Linearity		3.87 %

FR1 n77 (270)_n77 part 270_Ant 3	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.2	20.2
Reported 1g SAR (W/kg)	0.840	0.797
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	52.48	52.36
Linearity SAR (W/kg)	0.84	
% deviation from Expected Linearity		-4.90 %

FR1 n77 (270)_n77 part 270_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.5	20.5
Reported 1g SAR (W/kg)	0.293	0.308
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	56.23	56.1
Linearity SAR (W/kg)	0.29	
% deviation from Expected Linearity		5.36 %

FR1 n77 (270)_n77 part 270_Ant 8	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	14.4	17.4
Reported 1g SAR (W/kg)	0.879	0.848
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	27.54	27.48
Linearity SAR (W/kg)	0.88	
% deviation from Expected Linearity		-3.32 %

FR1 n77 (27Q)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 1g SAR (W/kg)	0.628	0.679
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	251.19	250.59
Linearity SAR (W/kg)	0.63	
% deviation from Expected Linearity		8.38 %

FR1 n77 (27Q)_Ant 3	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.2	20.2
Reported 1g SAR (W/kg)	0.337	0.313
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	52.48	52.36
Linearity SAR (W/kg)	0.34	
% deviation from Expected Linearity		-6.91 %

FR1 n77 (27Q)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	17.5	20.5
Reported 1g SAR (W/kg)	0.497	0.538
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (m/W)	56.23	56.1
Linearity SAR (W/kg)	0.50	
% deviation from Expected Linearity		8.50 %

FR1 n77 (27Q)_Ant 8	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	14.4	17.4
Reported 1g SAR (W/kg)	0.581	0.609
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	27.54	27.48
Linearity SAR (W/kg)	0.58	
% deviation from Expected Linearity		5.05 %

【Extremity】

LTE Band 41 (2496~2690MHz)_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 10g SAR (W/kg)	2.277	2.945
Duty Cycle (%)	63.3 %	43.3 %
Frame Averaged (mW)	159.0	217.01
Linearity SAR (W/kg)	3.11	
% deviation from Expected Linearity		-5.24 %

FR1 n41_Ant 1	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 10g SAR (W/kg)	2.981	3.092
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	2.97	
% deviation from Expected Linearity		3.97 %

FR1 n41_Ant 4	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	22.8	25.8
Reported 10g SAR (W/kg)	2.057	2.153
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	190.55	190.09
Linearity SAR (W/kg)	2.05	
% deviation from Expected Linearity		4.92 %

FR1 n77 (27Q)_n77 part 27Q_Ant 3	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	19.0	22.0
Reported 10g SAR (W/kg)	1.469	1.449
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	1.47	
% deviation from Expected Linearity		-1.12 %

FR1 n77 (27Q)_n77 part 27Q_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	24.0	27.0
Reported 10g SAR (W/kg)	0.533	0.523
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	251.19	250.59
Linearity SAR (W/kg)	0.53	
% deviation from Expected Linearity		-1.64 %

FR1 n77 (27Q)_Ant 5	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	23.4	26.4
Reported 10g SAR (W/kg)	2.325	2.444
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	218.78	218.26
Linearity SAR (W/kg)	2.32	
% deviation from Expected Linearity		5.37 %

FR1 n77 (27Q)_Ant 8	Power Class 3	Power Class 2
Max Tune Up Power (dBm)	20.6	23.6
Reported 10g SAR (W/kg)	2.436	2.387
Duty Cycle (%)	100.0 %	50.0 %
Frame Averaged (mW)	114.82	114.54
Linearity SAR (W/kg)	2.43	
% deviation from Expected Linearity		-1.77 %

16. Simultaneous Transmission Analysis

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

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For EN-DC mode, MediaTek TA-SAR Gen2 algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. MediaTek TA-SAR Gen2 algorithm controls the total RF exposure from both 4G and 5G NR to not exceed SAR exposure limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part2 Report during algorithm validation. In this Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device WLAN 2.4GHz support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- According to the EUT characteristic, WLAN 2.4GHz and Bluetooth cannot transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz cannot transmit simultaneously.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
- The maximum SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - The SPLSR calculated results please refer to section 16.6.

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

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

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

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

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

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR (i.e., PD exposure for 5G FR2 or SAR exposure for 5G FR1), and $B \leq 1.0$.

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

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

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

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

If $A + m \leq 1.0$ and $B + m \leq 1.0$ can be proven, then " $x \cdot A + y \cdot B + m \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

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

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

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

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

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

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

Above analysis is also apply to NR band UL MIMO, NR(SISO1) + NR(SISO2) + WLAN + BT simultaneous transmission, so UL MIMO no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of NR + WLAN + BT < 1.

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

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

SPLSR_Group (Antenna Group):

Antenna Group 0 (AG0)	ANT0 & ANT1
Antenna Group 1 (AG1)	ANT2 & ANT3 & ANT4 & ANT5 & ANT7 & ANT8

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

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

- The highest reported SAR at Plimit (or Pmax when Plimit > Pmax) for each antenna should be obtained out of all supported technologies and frequency bands for each power index. Demonstrate that the sum of reported SAR of one antenna from each of the antenna groups and the sum of RF exposure from all supported radios outside of TAS feature should be less than the regulatory limit as given below for each power index.
- If the sum of SAR from step i) is over 1.6 W/kg for 1g, demonstrate for a given power index that every antenna from one antenna group meets SPLSR criteria with every antenna in another antenna group for all frequency bands. SPLSR criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios, SPLSR Hotspot combination procedure (Hybrid SPLSR) also be considered for simultaneous transmission analysis.
- If SPLSR evaluation and analysis is needed to determine compliance for a certain power index configuration, SPLSR is performed by taking the highest summation SAR for each of the supported technologies and bands per antenna, along with the minimum of peak SAR location distance. The minimum of peak location distance is documented in the Highest Report SAR and Hotspot Location below for each power index configuration.
- In section 16.6 SPLSR analysis only evaluation Sim-Tx SAR configuration are rounded to two decimal higher or equal to 1.6W/kg.
- The analysis addresses the simultaneous transmission and the transition among non-simultaneous transmission radios.

For summed SAR results and SPLSR detailed analysis, please refer to section 16.2/16.3 / 16.4 / 16.5/ 16.6/ 16.7 of this report. All of the combinations of sub6 antenna groups are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

16.2 Head Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	MAX
Right Cheek	0.348	0.444	0.444
Right Tilted	0.183	0.306	0.306
Left Cheek	0.266	0.627	0.627
Left Tilted	0.260	0.192	0.260

<AG1 maximum reported SAR>:

Test Position	Ant2	Ant3	Ant4	Ant5	Ant7	Ant8	MAX
Right Cheek	0.274	0.881	0.881	0.551	0.212	0.297	0.881
Right Tilted	0.046	0.481	0.888	0.568	0.130	0.302	0.888
Left Cheek	0.368	0.268	0.710	0.859	0.707	0.541	0.859
Left Tilted	0.033	0.268	0.737	0.794	0.334	0.490	0.794

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

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant6	BT Ant6	WLAN5GHz Ant6+BT Ant6	MAX
Right Cheek	0.121	0.205	0.066	0.271	0.271
Right Tilted	0.126	0.256	0.069	0.325	0.325
Left Cheek	0.318	0.340	0.187	0.527	0.527
Left Tilted	0.278	0.346	0.151	0.497	0.497

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

Test Position	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worse case Summed 1g SAR (W/kg)
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Right Cheek	0.444	0.881	0.271	1.60
Right Tilted	0.306	0.888	0.325	1.52
Left Cheek	0.627	0.859	0.527	2.01
Left Tilted	0.260	0.794	0.497	1.55

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

Right Cheek					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant2	0.348	0.274	0.271	0.89	-
Ant0-Ant3	0.348	0.881	0.271	1.50	-
Ant0-Ant4	0.348	0.881	0.271	1.50	-
Ant0-Ant5	0.348	0.551	0.271	1.17	-
Ant0-Ant7	0.348	0.212	0.271	0.83	-
Ant0-Ant8	0.348	0.297	0.271	0.92	-
Ant1-Ant2	0.444	0.274	0.271	0.99	-
Ant1-Ant3	0.444	0.881	0.271	1.60	Case 1
Ant1-Ant4	0.444	0.881	0.271	1.60	Case 2
Ant1-Ant5	0.444	0.551	0.271	1.27	-
Ant1-Ant7	0.444	0.212	0.271	0.93	-
Ant1-Ant8	0.444	0.297	0.271	1.01	-

Left Cheek					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant2	0.266	0.368	0.527	1.16	-
Ant0-Ant3	0.266	0.268	0.527	1.06	-
Ant0-Ant4	0.266	0.710	0.527	1.50	-
Ant0-Ant5	0.266	0.859	0.527	1.65	Case 3
Ant0-Ant7	0.266	0.707	0.527	1.50	-
Ant0-Ant8	0.266	0.541	0.527	1.33	-
Ant1-Ant2	0.627	0.368	0.527	1.52	-
Ant1-Ant3	0.627	0.268	0.527	1.42	-
Ant1-Ant4	0.627	0.710	0.527	1.86	Case 5
Ant1-Ant5	0.627	0.859	0.527	2.01	Case 6
Ant1-Ant7	0.627	0.707	0.527	1.86	Case 7
Ant1-Ant8	0.627	0.541	0.527	1.70	Case 8

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

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant6	BT Ant6	WLAN5GHz Ant6+BT Ant6
Right Cheek	0.336	0.673	0.066	0.74
Right Tilted	0.351	0.844	0.069	0.91
Left Cheek	1.213	1.120	0.187	1.31
Left Tilted	0.773	1.141	0.151	1.29

16.3 Hotspot Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	MAX
Front	0.835	1.108	1.108
Back	1.285	1.289	1.289
Left Side	0.292	0.705	0.705
Right Side	0.569	0.117	0.569
Bottom Side	0.062	0.096	0.096
Top Side	1.292	0.848	1.292

<AG1 maximum reported SAR>:

Test Position	Ant2	Ant3	Ant4	Ant5	Ant7	Ant8	MAX
Front	0.001	0.334	0.334	0.317	0.396	0.045	0.396
Back	0.351	0.405	0.613	0.618	0.378	0.594	0.618
Left Side	0.430	0.408	0.206	0.093	0.001	0.029	0.430
Right Side	0.001	0.054	0.160	0.131	0.610	0.210	0.610
Bottom Side	0.001	0.273	0.615	0.385	0.066	0.175	0.615
Top Side	0.001	0.006	0.038	0.007	0.001	0.006	0.038

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

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant6	BT Ant6	WLAN5GHz Ant6+BT Ant6	MAX
Front	0.373	0.373	0.081	0.454	0.454
Back	0.591	0.660	0.135	0.795	0.795
Left Side	0.037	0.032	0.000	0.032	0.037
Right Side	0.343	0.320	0.093	0.413	0.413
Bottom Side	0.361	0.683	0.088	0.771	0.771
Top Side	0.037	0.016	0.007	0.023	0.037

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

Test Position	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worse case Summed 1g SAR (W/kg)
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Front	1.108	0.396	0.454	1.96
Back	1.289	0.618	0.795	2.70
Left Side	0.705	0.430	0.037	1.17
Right Side	0.569	0.610	0.413	1.59
Bottom Side	0.096	0.615	0.771	1.48
Top Side	1.292	0.038	0.037	1.37

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

Front					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant2	0.835	0.001	0.454	1.29	-
Ant0-Ant3	0.835	0.334	0.454	1.62	Case 1
Ant0-Ant4	0.835	0.334	0.454	1.62	Case 2
Ant0-Ant5	0.835	0.317	0.454	1.61	Case 3
Ant0-Ant7	0.835	0.396	0.454	1.69	Case 4
Ant0-Ant8	0.835	0.045	0.454	1.33	-
Ant1-Ant2	1.108	0.001	0.454	1.56	-
Ant1-Ant3	1.108	0.334	0.454	1.90	Case 5
Ant1-Ant4	1.108	0.334	0.454	1.90	Case 6
Ant1-Ant5	1.108	0.317	0.454	1.88	Case 7
Ant1-Ant7	1.108	0.396	0.454	1.96	Case 8
Ant1-Ant8	1.108	0.045	0.454	1.61	Case 9

Back					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant2	1.285	0.351	0.795	2.43	Case 10
Ant0-Ant3	1.285	0.405	0.795	2.49	Case 11
Ant0-Ant4	1.285	0.613	0.795	2.69	Case 12
Ant0-Ant5	1.285	0.618	0.795	2.70	Case 13
Ant0-Ant7	1.285	0.378	0.795	2.46	Case 14
Ant0-Ant8	1.285	0.594	0.795	2.67	Case 15
Ant1-Ant2	1.289	0.351	0.795	2.44	Case 16
Ant1-Ant3	1.289	0.405	0.795	2.49	Case 17
Ant1-Ant4	1.289	0.613	0.795	2.70	Case 18
Ant1-Ant5	1.289	0.618	0.795	2.70	Case 19
Ant1-Ant7	1.289	0.378	0.795	2.46	Case 20
Ant1-Ant8	1.289	0.594	0.795	2.68	Case 21

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

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant6	BT Ant6	WLAN5GHz Ant6+BT Ant6
Front	0.373	0.373	0.081	0.45
Back	0.591	0.660	0.135	0.80
Left Side	0.037	0.032	0.000	0.03
Right Side	0.343	0.320	0.093	0.41
Top Side	0.361	0.683	0.088	0.77
Bottom Side	0.037	0.016	0.007	0.02

16.4 Body-Worn Accessory Exposure Conditions

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	MAX
Front	1.276	1.108	1.276
Back	1.289	1.289	1.289

<AG1 maximum reported SAR>:

Test Position	Ant2	Ant3	Ant4	Ant5	Ant7	Ant8	MAX
Front	0.001	0.458	0.682	0.469	0.453	0.058	0.682
Back	0.724	0.840	0.892	0.874	0.415	0.883	0.892

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

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant6	BT Ant6	WLAN5GHz Ant6+BT Ant6	MAX
Front	0.197	0.244	0.081	0.325	0.325
Back	0.312	0.361	0.135	0.496	0.496

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

Test Position	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	1.276	0.682	0.325	2.28
Back	1.289	0.892	0.496	2.68

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

Front					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant2	1.276	0.001	0.325	1.60	Case 1
Ant0-Ant3	1.276	0.458	0.325	2.06	Case 2
Ant0-Ant4	1.276	0.682	0.325	2.28	Case 3
Ant0-Ant5	1.276	0.469	0.325	2.07	Case 4
Ant0-Ant7	1.276	0.453	0.325	2.05	Case 5
Ant0-Ant8	1.276	0.058	0.325	1.66	Case 6
Ant1-Ant2	1.108	0.001	0.325	1.43	-
Ant1-Ant3	1.108	0.458	0.325	1.89	Case 7
Ant1-Ant4	1.108	0.682	0.325	2.12	Case 8
Ant1-Ant5	1.108	0.469	0.325	1.90	Case 9
Ant1-Ant7	1.108	0.453	0.325	1.89	Case 10
Ant1-Ant8	1.108	0.058	0.325	1.49	-

Back					
Ant combination	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	SPLSR
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant2	1.289	0.724	0.496	2.51	Case 11
Ant0-Ant3	1.289	0.840	0.496	2.63	Case 12
Ant0-Ant4	1.289	0.892	0.496	2.68	Case 13
Ant0-Ant5	1.289	0.874	0.496	2.66	Case 14
Ant0-Ant7	1.289	0.415	0.496	2.20	Case 15

Ant0-Ant8	1.289	0.883	0.496	2.67	Case 16
Ant1-Ant2	1.289	0.724	0.496	2.51	Case 17
Ant1-Ant3	1.289	0.840	0.496	2.63	Case 18
Ant1-Ant4	1.289	0.892	0.496	2.68	Case 19
Ant1-Ant5	1.289	0.874	0.496	2.66	Case 20
Ant1-Ant7	1.289	0.415	0.496	2.20	Case 21
Ant1-Ant8	1.289	0.883	0.496	2.67	Case 22

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

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant6	BT Ant6	WLAN5GHz Ant6+BT Ant6
Front	0.589	0.641	0.108	0.75
Back	1.317	1.171	0.135	1.31

<Sensor off>

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	MAX
Front	0.378	0.328	0.378
Back	0.204	0.233	0.233

<AG1 maximum reported SAR>:

Test Position	Ant2	Ant3	Ant4	Ant5	Ant7	Ant8	MAX
Front	0.072	0.078	0.353	0.385		0.025	0.385
Back	0.103	0.001	0.274	0.285		0.868	0.868

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

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant6	BT Ant6	WLAN5GHz Ant6+BT Ant6	MAX
Front	0.150	0.455		0.455	0.455
Back	0.106	0.394		0.394	0.394

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

Test Position	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worse case Summed 1g SAR (W/kg)
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Front	0.378	0.385	0.455	1.22
Back	0.233	0.868	0.394	1.50

16.5 Product specific 10g SAR Exposure Conditions

Remark:

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

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

Simultaneous Transmission Evaluation of WWAN+WLAN+BT+NFC:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	MAX
Front	3.057	2.344	3.057
Back	3.198	3.205	3.205
Left Side		1.400	1.400
Right Side			0.000
Top Side			0.000
Bottom Side	2.974	1.635	2.974

<AG1 maximum reported SAR>:

Test Position	Ant2	Ant3	Ant4	Ant5	Ant7	Ant8	MAX
Front		0.514	2.377	2.097			2.377
Back		1.469	2.426	1.601		2.468	2.468
Left Side		1.139					1.139
Right Side							0.000
Top Side			2.490	2.452			2.490
Bottom Side							0.000

<WLAN/BT + NFC Worse-case SAR>:

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant6	BT Ant6	WLAN5GHz Ant6+BT Ant6	MAX
Front	0.888	0.565		0.565	0.888
Back	0.371	0.461		0.461	0.461
Left Side				0.000	0.000
Right Side		0.403		0.403	0.403
Top Side		0.878		0.878	0.878
Bottom Side				0.000	0.000

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

Test Position	AG0	AG1	WLAN/BT worst case	NFC	AG1+AG0+WLAN +BT worse case+NFC Summed
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
Front	3.057	2.377	0.565	0.001	6.00
Back	3.205	2.468	0.461	0.029	6.16
Left Side	1.400	1.139	0.000	0.001	2.54
Right Side	0.000	0.000	0.403	0.001	0.40
Top Side	0.000	2.490	0.878	0.001	3.37
Bottom Side	2.974	0.000	0.000	0.001	2.98

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

Front						
Ant combination	AG1	AG0	WLAN/BT worst case	NFC	AG1+AG0+WLAN +BT worst case+NFC	SPLSR
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Ant0-Ant2	3.057		0.888	0.001	3.95	-
Ant0-Ant3	3.057	0.514	0.888	0.001	4.46	Case 1
Ant0-Ant4	3.057	2.377	0.888	0.001	6.32	Case 2
Ant0-Ant5	3.057	2.097	0.888	0.001	6.04	Case 3
Ant0-Ant7	3.057		0.888	0.001	3.95	-
Ant0-Ant8	3.057		0.888	0.001	3.95	-
Ant1-Ant2	2.344		0.888	0.001	3.23	-
Ant1-Ant3	2.344	0.514	0.888	0.001	3.75	-
Ant1-Ant4	2.344	2.377	0.888	0.001	5.61	Case 4
Ant1-Ant5	2.344	2.097	0.888	0.001	5.33	Case 5
Ant1-Ant7	2.344		0.888	0.001	3.23	-
Ant1-Ant8	2.344		0.888	0.001	3.23	-

Back						
Ant combination	AG1	AG0	WLAN/BT worst case	NFC	AG1+AG0+WLAN +BT worst case+NFC	SPLSR
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Ant0-Ant2	3.198		0.461	0.029	3.69	-
Ant0-Ant3	3.198	1.469	0.461	0.029	5.16	Case 6
Ant0-Ant4	3.198	2.426	0.461	0.029	6.11	Case 7
Ant0-Ant5	3.198	1.601	0.461	0.029	5.29	Case 8
Ant0-Ant7	3.198		0.461	0.029	3.69	-
Ant0-Ant8	3.198	2.468	0.461	0.029	6.16	Case 9
Ant1-Ant2	3.205		0.461	0.029	3.70	-
Ant1-Ant3	3.205	1.469	0.461	0.029	5.16	Case 10
Ant1-Ant4	3.205	2.426	0.461	0.029	6.12	Case 11
Ant1-Ant5	3.205	1.601	0.461	0.029	5.30	Case 12
Ant1-Ant7	3.205		0.461	0.029	3.70	-
Ant1-Ant8	3.205	2.468	0.461	0.029	6.16	Case 13

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

Test Position	WLAN2.4GHz Ant6	WLAN5GHz Ant6	BT Ant6	NFC	WLAN5GHz Ant6+BT Ant6+NFC
Front	1.729	1.653		0.001	1.65
Back	1.262	1.336		0.029	1.37
Left Side				0.001	0.00
Right Side		1.166		0.001	1.17
Top Side		2.822		0.001	2.82
Bottom Side				0.001	0.00

16.6 SPLSR Evaluation and Analysis

General Note:

- When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
- $SPLSR = (SAR_1 + SAR_2) \cdot 1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
- Per April 2022 TCB Workshop Notes, AG1 was summed algebraically with the BT/WIFI/NFC Antenna for the purposes of hybrid SPLSR combination and they are located at the top of the device
- Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.
- The axis peak locations refer to Section 16.7.

<Head>

No.1	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Ant1	Right Cheek	0.444	0mm	92.6	-306	-171.2	67.5	1.60	0.03	Not required
Ant3		0.881	0mm	32	-335.5	-174.3				
WLAN5GHz Ant6		0.205	0mm							
Bluetooth Ant6		0.066	0mm							
Ant1	Right Cheek	0.444	0mm	87.8	-293.6	-172.6	97.0	1.60	0.02	Not required
Ant3		0.881	0mm							
WLAN5GHz Ant6		0.205	0mm	-8.9	-292	-165.1				
Bluetooth Ant6		0.066	0mm							
Ant1	Right Cheek	0.444	0mm	87.8	-293.6	-172.6	97.6	1.60	0.02	Not required
Ant3		0.881	0mm							
WLAN5GHz Ant6		0.205	0mm							
Bluetooth Ant6		0.066	0mm	-9.5	-291.3	-165.1				
No.2	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Ant1	Right Cheek	0.444	0mm	87.8	-293.6	-172.6	79.6	1.60	0.03	Not required
Ant4		0.881	0mm	12.4	-319	-174.1				
WLAN5GHz Ant6		0.205	0mm							
Bluetooth Ant6		0.095	0mm							
Ant1	Right Cheek	0.444	0mm	87.8	-293.6	-172.6	97.0	1.60	0.02	Not required
Ant4		0.881	0mm							
WLAN5GHz Ant6		0.205	0mm	-8.9	-292	-165.1				
Bluetooth Ant6		0.095	0mm							
Ant1	Right Cheek	0.444	0mm	87.8	-293.6	-172.6	97.6	1.60	0.02	Not required
Ant4		0.881	0mm							
WLAN5GHz Ant6		0.205	0mm							
Bluetooth Ant6		0.095	0mm	-9.5	-291.3	-165.1				

Case 3	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Ant0	Left Cheek	0.266	0mm	90.9	304.2	-171.5	80.3	1.65	0.03	Not required
Ant5		0.859	0mm	12.1	319.6	-174.1				
WLAN5GHz Ant6		0.340	0mm							
Bluetooth Ant6		0.187	0mm							
Ant0	Left Cheek	0.266	0mm	90.9	304.2	-171.5	77.2	1.65	0.03	Not required
Ant5		0.859	0mm							
WLAN5GHz Ant6		0.340	0mm	19.8	334.2	-171.1				
Bluetooth Ant6		0.187	0mm							
Ant0	Left Cheek	0.266	0mm	90.9	304.2	-171.5	75.2	1.65	0.03	Not required
Ant5		0.859	0mm							
WLAN5GHz Ant6		0.340	0mm							
Bluetooth Ant6		0.187	0mm	20.3	330	-174.7				
Case 5	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	84.2	1.86	0.03	Not required
Ant4		0.710	0mm	12.5	302.3	-170.4				
WLAN5GHz Ant6		0.340	0mm							
Bluetooth Ant6		0.187	0mm							
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	101.8	1.86	0.03	Not required
Ant4		0.710	0mm							

WLAN5GHz Ant6		0.340	0mm	19.8	334.2	-171.1				
Bluetooth Ant6		0.187	0mm							
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	98.0	1.86	0.03	Not required
Ant4		0.710	0mm							
WLAN5GHz Ant6		0.340	0mm							
Bluetooth Ant6		0.187	0mm	20.3	330	-174.7				
Case 6	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	95.7	2.01	0.03	Not required
Ant5		0.859	0mm	12.1	319.6	-174.1				
WLAN5GHz Ant6		0.340	0mm							
Bluetooth Ant6		0.187	0mm							
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	101.8	2.01	0.03	Not required
Ant5		0.859	0mm							
WLAN5GHz Ant6		0.340	0mm	19.8	334.2	-171.1				
Bluetooth Ant6		0.187	0mm							
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	98.0	2.01	0.03	Not required
Ant5		0.859	0mm							
WLAN5GHz Ant6		0.340	0mm							
Bluetooth Ant6		0.187	0mm	20.3	330	-174.7				
Case 7	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	96.0	1.86	0.03	Not required
Ant7		0.707	0mm	34.4	336.8	-174.1				
WLAN5GHz Ant6		0.340	0mm							
Bluetooth Ant6		0.187	0mm							
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	101.8	1.86	0.02	Not required
Ant7		0.707	0mm							
WLAN5GHz Ant6		0.340	0mm	19.8	334.2	-171.1				
Bluetooth Ant6		0.187	0mm							
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	98.0	1.86	0.03	Not required
Ant7		0.707	0mm							
WLAN5GHz Ant6		0.340	0mm							
Bluetooth Ant6		0.187	0mm	20.3	330	-174.7				
Case 8	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	80.8	1.70	0.03	Not required
Ant8		0.541	0mm	51	327.7	-174.1				
WLAN5GHz Ant6		0.340	0mm							
Bluetooth Ant6		0.187	0mm							
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	101.8	1.70	0.02	Not required
Ant8		0.541	0mm							
WLAN5GHz Ant6		0.340	0mm	19.8	334.2	-171.1				
Bluetooth Ant6		0.187	0mm							
Ant1	Left Cheek	0.627	0mm	80.2	252.4	-175	98.0	1.70	0.02	Not required
Ant8		0.541	0mm							
WLAN5GHz Ant6		0.340	0mm							
Bluetooth Ant6		0.187	0mm	20.3	330	-174.7				

<Hotspot>

No.1	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	0.835	5mm	-38.8	-74.2	-207	146.4	1.62	0.01	Not required
Ant3		0.334	5mm	-64	70	-207				
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm							
Ant0	Front	0.835	5mm	0.7	-72.4	-207	154.5	1.62	0.01	Not required
Ant3		0.334	5mm							
WLAN5GHz Ant6		0.373	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant0	Front	0.835	5mm	0.7	-72.4	-207	154.1	1.62	0.01	Not required
Ant3		0.334	5mm							
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				

No.2	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	0.835	5mm	-38.8	-74.2	-207	159.9	1.62	0.01	Not required
Ant4		0.334	5mm	-41.6	85.7	-207				
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm							
Ant0	Front	0.835	5mm	0.7	-72.4	-207	154.5	1.62	0.01	Not required
Ant4		0.334	5mm							
WLAN5GHz Ant6		0.373	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant0	Front	0.835	5mm	0.7	-72.4	-207	154.1	1.62	0.01	Not required
Ant4		0.334	5mm							
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				

No.3	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	0.835	5mm	0.7	-72.4	-207	153.8	1.61	0.01	Not required
Ant5		0.317	5mm	-15.2	80.6	-207				
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm							
Ant0	Front	0.835	5mm	0.7	-72.4	-207	154.5	1.61	0.01	Not required
Ant5		0.317	5mm							
WLAN5GHz Ant6		0.373	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant0	Front	0.835	5mm	0.7	-72.4	-207	154.1	1.61	0.01	Not required
Ant5		0.317	5mm							
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				

No.4	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	0.835	5mm	0.7	-72.4	-207	141.8	1.69	0.02	Not required
Ant7		0.396	5mm	11.5	69	-207				
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm							
Ant0	Front	0.835	5mm	0.7	-72.4	-207	154.5	1.69	0.01	Not required
Ant7		0.396	5mm							
WLAN5GHz Ant6		0.373	5mm	6	82	-207				



FCC SAR Test Report

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Bluetooth Ant6		0.081	5mm							
Ant0	Front	0.835	5mm	0.7	-72.4	-207	154.1	1.69	0.01	Not required
Ant7		0.396	5mm							
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.5	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Front	1.108	5mm	-50.2	-70	-207	140.7	1.90	0.02	Not required
Ant3		0.334	5mm	-64	70	-207				
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	162.1	1.90	0.02	Not required
Ant3		0.334	5mm							
WLAN5GHz Ant6		0.373	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	161.9	1.90	0.02	Not required
Ant3		0.334	5mm							
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.6	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Front	1.108	5mm	-50.2	-70	-207	155.9	1.90	0.02	Not required
Ant4		0.334	5mm	-41.6	85.7	-207				
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	162.1	1.90	0.02	Not required
Ant4		0.334	5mm							
WLAN5GHz Ant6		0.373	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	161.9	1.90	0.02	Not required
Ant4		0.334	5mm							
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.7	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Front	1.108	5mm	-50.2	-70	-207	154.6	1.88	0.02	Not required
Ant5		0.317	5mm	-15.2	80.6	-207				
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	162.1	1.88	0.02	Not required
Ant5		0.317	5mm							
WLAN5GHz Ant6		0.373	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	161.9	1.88	0.02	Not required
Ant5		0.317	5mm							
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.8	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSRResults	Simultaneous SAR
				X	Y	Z				
Ant1	Front	1.108	5mm	-50.2	-70	-207	152.1	1.96	0.02	Not required
Ant7		0.396	5mm	11.5	69	-207				
WLAN5GHz Ant6		0.373	5mm							



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Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	162.1	1.96	0.02	Not required
Ant7		0.396	5mm							
WLAN5GHz Ant6		0.373	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	161.9	1.96	0.02	Not required
Ant7		0.396	5mm							
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				

No.9	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Front	1.108	5mm	-50.2	-70	-207	136.1	1.61	0.02	Not required
Ant8		0.045	5mm	12.6	50.8	-207				
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	162.1	1.61	0.01	Not required
Ant8		0.045	5mm							
WLAN5GHz Ant6		0.373	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	161.9	1.61	0.01	Not required
Ant8		0.045	5mm							
WLAN5GHz Ant6		0.373	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				

No.10	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.285	5mm	-17.7	-72.3	-207	115.5	2.43	0.03	Not required
Ant2		0.351	5mm	16.5	38	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	157.9	2.43	0.02	Not required
Ant2		0.351	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	153.4	2.43	0.02	Not required
Ant2		0.351	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

No.11	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.285	5mm	-17.7	-72.3	-207	144.1	2.49	0.03	Not required
Ant3		0.405	5mm	5	70	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	157.9	2.49	0.02	Not required
Ant3		0.405	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	153.4	2.49	0.03	Not required
Ant3		0.405	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

No.12	Position	SAR 1g	Gap	SAR peak location (mm)			3D distance	Summed	SPLSR	Simultaneous
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		SAR (W/kg)		X	Y	Z	(mm)	SAR (W/kg)	Results	SAR
Ant0	Back	1.285	5mm	-17.7	-72.3	-207	147.0	2.69	0.03	Not required
Ant4		0.613	5mm	0.1	73.6	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	157.9	2.69	0.03	Not required
Ant4		0.613	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	153.4	2.69	0.03	Not required
Ant4		0.613	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

No.13	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.285	5mm	-17.7	-72.3	-207	150.2	2.70	0.03	Not required
Ant5		0.618	5mm	-34	77	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	157.9	2.70	0.03	Not required
Ant5		0.618	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	153.4	2.70	0.03	Not required
Ant5		0.618	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

No.14	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	144.5	2.46	0.03	Not required
Ant7		0.378	5mm	-58.6	68	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	157.9	2.46	0.02	Not required
Ant7		0.378	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	153.4	2.46	0.03	Not required
Ant7		0.378	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

No.15	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	112.5	2.67	0.04	Not required
Ant8		0.594	5mm	-51	36.8	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	157.9	2.67	0.03	Not required
Ant8		0.594	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.285	5mm	-36.5	-74.8	-207	153.4	2.67	0.03	Not required
Ant8		0.594	5mm							



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WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.16	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	106.6	2.44	0.04	Not required
Ant2		0.351	5mm	16.5	38	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.44	0.02	Not required
Ant2		0.351	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.44	0.02	Not required
Ant2		0.351	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.17	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	137.5	2.49	0.03	Not required
Ant3		0.405	5mm	5	70	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.49	0.02	Not required
Ant3		0.405	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.49	0.03	Not required
Ant3		0.405	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.18	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	141.1	2.70	0.03	Not required
Ant4		0.613	5mm	0.1	73.6	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.70	0.03	Not required
Ant4		0.613	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.70	0.03	Not required
Ant4		0.613	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.19	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	148.8	2.70	0.03	Not required
Ant5		0.618	5mm	-34	77	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.70	0.03	Not required
Ant5		0.618	5mm							

WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.70	0.03	Not required
Ant5		0.618	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.20	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	148.2	2.46	0.03	Not required
Ant7		0.378	5mm	-58.6	68	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.46	0.02	Not required
Ant7		0.378	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.46	0.03	Not required
Ant7		0.378	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.21	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	116.8	2.68	0.04	Not required
Ant8		0.594	5mm	-51	36.8	-207				
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.68	0.03	Not required
Ant8		0.594	5mm							
WLAN5GHz Ant6		0.660	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.68	0.03	Not required
Ant8		0.594	5mm							
WLAN5GHz Ant6		0.660	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

<Body-worn>

No.1	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.276	5mm	-38.8	-74.2	-207	110.6	1.60	0.02	Not required
Ant2		0.001	5mm	-73	31	-207				
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.5	1.60	0.01	Not required
Ant2		0.001	5mm							
WLAN5GHz Ant6		0.244	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.1	1.60	0.01	Not required
Ant2		0.001	5mm							
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.2	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.276	5mm	-38.8	-74.2	-207	146.4	2.06	0.02	Not required
Ant3		0.458	5mm	-64	70	-207				
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.5	2.06	0.02	Not required
Ant3		0.458	5mm							
WLAN5GHz Ant6		0.244	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.1	2.06	0.02	Not required
Ant3		0.458	5mm							
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.3	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.276	5mm	-38.8	-74.2	-207	159.9	2.28	0.02	Not required
Ant4		0.682	5mm	-41.6	85.7	-207				
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.5	2.28	0.02	Not required
Ant4		0.682	5mm							
WLAN5GHz Ant6		0.244	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.1	2.28	0.02	Not required
Ant4		0.682	5mm							
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.4	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.276	5mm	0.7	-72.4	-207	153.8	2.07	0.02	Not required
Ant5		0.469	5mm	-15.2	80.6	-207				
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.5	2.07	0.02	Not required
Ant5		0.469	5mm							
WLAN5GHz Ant6		0.244	5mm	6	82	-207				

Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.1	2.07	0.02	Not required
Ant5		0.469	5mm							
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.5	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.276	5mm	0.7	-72.4	-207	141.8	2.05	0.02	Not required
Ant7		0.453	5mm	11.5	69	-207				
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.5	2.05	0.02	Not required
Ant7		0.453	5mm							
WLAN5GHz Ant6		0.244	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.1	2.05	0.02	Not required
Ant7		0.453	5mm							
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.6	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	1.276	5mm	0.7	-72.4	-207	123.8	1.66	0.02	Not required
Ant8		0.058	5mm	12.6	50.8	-207				
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.5	1.66	0.01	Not required
Ant8		0.058	5mm							
WLAN5GHz Ant6		0.244	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant0	Front	1.276	5mm	0.7	-72.4	-207	154.1	1.66	0.01	Not required
Ant8		0.058	5mm							
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.7	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Front	1.108	5mm	-50.2	-70	-207	140.7	1.89	0.02	Not required
Ant3		0.458	5mm	-64	70	-207				
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	162.1	1.89	0.02	Not required
Ant3		0.458	5mm							
WLAN5GHz Ant6		0.244	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	161.9	1.89	0.02	Not required
Ant3		0.458	5mm							
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				
No.8	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Front	1.108	5mm	-50.2	-70	-207	155.9	2.12	0.02	Not required
Ant4		0.682	5mm	-41.6	85.7	-207				
WLAN5GHz Ant6		0.244	5mm							

Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	162.1	2.12	0.02	Not required
Ant4		0.682	5mm							
WLAN5GHz Ant6		0.244	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	161.9	2.12	0.02	Not required
Ant4		0.682	5mm							
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				

No.9	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Front	1.108	5mm	-50.2	-70	-207	154.6	1.90	0.02	Not required
Ant5		0.469	5mm	-15.2	80.6	-207				
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	162.1	1.90	0.02	Not required
Ant5		0.469	5mm							
WLAN5GHz Ant6		0.244	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	161.9	1.90	0.02	Not required
Ant5		0.469	5mm							
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				

No.10	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Front	1.108	5mm	-50.2	-70	-207	152.1	1.89	0.02	Not required
Ant7		0.453	5mm	11.5	69	-207				
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	162.1	1.89	0.02	Not required
Ant7		0.453	5mm							
WLAN5GHz Ant6		0.244	5mm	6	82	-207				
Bluetooth Ant6		0.081	5mm							
Ant1	Front	1.108	5mm	-50.2	-70	-207	161.9	1.89	0.02	Not required
Ant7		0.453	5mm							
WLAN5GHz Ant6		0.244	5mm							
Bluetooth Ant6		0.081	5mm	6.5	81.6	-207				

No.11	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.289	5mm	-17.7	-72.3	-207	115.5	2.51	0.03	Not required
Ant2		0.724	5mm	16.5	38	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	157.9	2.51	0.03	Not required
Ant2		0.724	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	153.4	2.51	0.03	Not required
Ant2		0.724	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

No.12	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance	Summed SAR	SPLSR Results	Simultaneous
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		(W/kg)		X	Y	Z	(mm)	(W/kg)	Results	SAR
Ant0	Back	1.289	5mm	-17.7	-72.3	-207	144.1	2.63	0.03	Not required
Ant3		0.840	5mm	5	70	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	157.9	2.63	0.03	Not required
Ant3		0.840	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	153.4	2.63	0.03	Not required
Ant3		0.840	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

No.13	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.289	5mm	-17.7	-72.3	-207	147.0	2.68	0.03	Not required
Ant4		0.892	5mm	0.1	73.6	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	157.9	2.68	0.03	Not required
Ant4		0.892	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	153.4	2.68	0.03	Not required
Ant4		0.892	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

No.14	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.289	5mm	-17.7	-72.3	-207	150.2	2.66	0.03	Not required
Ant5		0.874	5mm	-34	77	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	157.9	2.66	0.03	Not required
Ant5		0.874	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	153.4	2.66	0.03	Not required
Ant5		0.874	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

No.15	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	144.5	2.20	0.02	Not required
Ant7		0.415	5mm	-58.6	68	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	157.9	2.20	0.02	Not required
Ant7		0.415	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	153.4	2.20	0.02	Not required
Ant7		0.415	5mm							

WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.16	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	112.5	2.67	0.04	Not required
Ant8		0.883	5mm	-51	36.8	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	157.9	2.67	0.03	Not required
Ant8		0.883	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant0	Back	1.289	5mm	-36.5	-74.8	-207	153.4	2.67	0.03	Not required
Ant8		0.883	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.17	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	106.6	2.51	0.04	Not required
Ant2		0.724	5mm	16.5	38	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.51	0.02	Not required
Ant2		0.724	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.51	0.03	Not required
Ant2		0.724	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.18	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	137.5	2.63	0.03	Not required
Ant3		0.840	5mm	5	70	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.63	0.03	Not required
Ant3		0.840	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.63	0.03	Not required
Ant3		0.840	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.19	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	141.1	2.68	0.03	Not required
Ant4		0.892	5mm	0.1	73.6	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.68	0.03	Not required
Ant4		0.892	5mm							

WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.68	0.03	Not required
Ant4		0.892	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.20	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	148.8	2.66	0.03	Not required
Ant5		0.874	5mm	-34	77	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.66	0.03	Not required
Ant5		0.874	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.66	0.03	Not required
Ant5		0.874	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.21	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	148.2	2.20	0.02	Not required
Ant7		0.415	5mm	-58.6	68	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.20	0.02	Not required
Ant7		0.415	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.20	0.02	Not required
Ant7		0.415	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				
No.22	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	1.289	5mm	1.5	-67.5	-207	116.8	2.67	0.04	Not required
Ant8		0.883	5mm	-51	36.8	-207				
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	160.3	2.67	0.03	Not required
Ant8		0.883	5mm							
WLAN5GHz Ant6		0.361	5mm	-57.2	81.7	-207				
Bluetooth Ant6		0.135	5mm							
Ant1	Back	1.289	5mm	1.5	-67.5	-207	154.3	2.67	0.03	Not required
Ant8		0.883	5mm							
WLAN5GHz Ant6		0.361	5mm							
Bluetooth Ant6		0.135	5mm	-50	78	-207				

<Extremity>

No.1	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	3.057	0mm	-38.8	-74.2	-207	147.5	4.46	0.06	Not required
Ant3		0.514	0mm	-64.3	71.1	-207				
WLAN2.4GHz Ant6		0.888	0mm							
NFC		0.001	0mm							
Ant0	Front	3.057	0mm	2.3	-74.2	-207	160.8	4.46	0.06	Not required
Ant3		0.514	0mm							
WLAN2.4GHz Ant6		0.888	0mm	6.5	86.5	-207				
NFC		0.001	0mm							
Ant0	Front	3.057	0mm	2.3	-74.2	-207	168.7	4.46	0.06	Not required
Ant3		0.514	0mm							
WLAN2.4GHz Ant6		0.888	0mm							
NFC		0.001	0mm	-58.9	83	-207				
No.2	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	3.057	0mm	-38.8	-74.2	-207	162.3	6.32	0.10	Not required
Ant4		2.377	0mm	-39.5	88.1	-207				
WLAN2.4GHz Ant6		0.888	0mm							
NFC		0.001	0mm							
Ant0	Front	3.057	0mm	2.3	-74.2	-207	160.8	6.32	0.10	Not required
Ant4		2.377	0mm							
WLAN2.4GHz Ant6		0.888	0mm	6.5	86.5	-207				
NFC		0.001	0mm							
Ant0	Front	3.057	0mm	2.3	-74.2	-207	168.7	6.32	0.09	Not required
Ant4		2.377	0mm							
WLAN2.4GHz Ant6		0.888	0mm							
NFC		0.001	0mm	-58.9	83	-207				
No.3	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Front	3.057	0mm	2.3	-74.2	-207	155.8	6.04	0.10	Not required
Ant5		2.097	0mm	-15.2	80.6	-207				
WLAN2.4GHz Ant6		0.888	0mm							
NFC		0.001	0mm							
Ant0	Front	3.057	0mm	2.3	-74.2	-207	160.8	6.04	0.09	Not required
Ant5		2.097	0mm							
WLAN2.4GHz Ant6		0.888	0mm	6.5	86.5	-207				
NFC		0.001	0mm							
Ant0	Front	3.057	0mm	2.3	-74.2	-207	168.7	6.04	0.09	Not required
Ant5		2.097	0mm							
WLAN2.4GHz Ant6		0.888	0mm							
NFC		0.001	0mm	-58.9	83	-207				
No.4	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Front	2.344	0mm	-50.5	-70.6	-207	159.1	5.61	0.08	Not required
Ant4		2.377	0mm	-39.5	88.1	-207				
WLAN2.4GHz Ant6		0.888	0mm							
NFC		0.001	0mm							
Ant1	Front	2.344	0mm	-49	-71	-207	167.0	5.61	0.08	Not required
Ant4		2.377	0mm							
WLAN2.4GHz Ant6		0.888	0mm	6.5	86.5	-207				



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NFC	Front	0.001	0mm				154.3	5.61	0.09	Not required
Ant1		2.344	0mm	-49	-71	-207				
Ant4		2.377	0mm							
WLAN2.4GHz Ant6		0.888	0mm							
NFC		0.001	0mm	-58.9	83	-207				
No.5	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Front	2.344	0mm	-50.5	-70.6	-207	155.3	5.33	0.08	Not required
Ant5		2.097	0mm	-15.2	80.6	-207				
WLAN2.4GHz Ant6		0.888	0mm							
NFC		0.001	0mm							
Ant1	Front	2.344	0mm	-49	-71	-207	167.0	5.33	0.07	Not required
Ant5		2.097	0mm							
WLAN2.4GHz Ant6		0.888	0mm	6.5	86.5	-207				
NFC		0.001	0mm							
Ant1	Front	2.344	0mm	-49	-71	-207	154.3	5.33	0.08	Not required
Ant5		2.097	0mm							
WLAN2.4GHz Ant6		0.888	0mm							
NFC		0.001	0mm	-58.9	83	-207				

No.6	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	3.198	0mm	-10.1	-75.8	-207	146.7	5.16	0.08	Not required
Ant3		1.469	0mm	6	70	-207				
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm							
Ant0	Back	3.198	0mm	-45.8	-78	-207	160.1	5.16	0.07	Not required
Ant3		1.469	0mm							
WLAN5GHz Ant6		0.461	0mm	-57.2	81.7	-207				
NFC		0.029	0mm							
Ant0	Back	3.198	0mm	-45.8	-78	-207	172.0	5.16	0.07	Not required
Ant3		1.469	0mm							
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm	9	85	-207				
No.7	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	3.198	0mm	-10.1	-75.8	-207	165.5	6.11	0.09	Not required
Ant4		2.426	0mm	1.1	89.3	-207				
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm							
Ant0	Back	3.198	0mm	-45.8	-78	-207	160.1	6.11	0.09	Not required
Ant4		2.426	0mm							
WLAN5GHz Ant6		0.461	0mm	-57.2	81.7	-207				
NFC		0.029	0mm							
Ant0	Back	3.198	0mm	-45.8	-78	-207	172.0	6.11	0.09	Not required
Ant4		2.426	0mm							
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm	9	85	-207				
No.8	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	3.198	0mm	-15.2	-75.5	-207	153.7	5.29	0.08	Not required
Ant5		1.601	0mm	-34	77	-207				
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm							
Ant0	Back	3.198	0mm	-45.8	-78	-207	160.1	5.29	0.08	Not required
Ant5		1.601	0mm							
WLAN5GHz Ant6		0.461	0mm	-57.2	81.7	-207				
NFC		0.029	0mm							
Ant0	Back	3.198	0mm	-45.8	-78	-207	172.0	5.29	0.07	Not required
Ant5		1.601	0mm							
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm	9	85	-207				
No.9	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant0	Back	3.198	0mm	-35.1	-77.1	-207	154.4	6.16	0.10	Not required
Ant8		2.468	0mm	-48	76.8	-207				
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm							

Ant0	Back	3.198	0mm	-45.8	-78	-207	160.1	6.16	0.10	Not required
Ant8		2.468	0mm							
WLAN5GHz Ant6		0.461	0mm	-57.2	81.7	-207				
NFC		0.029	0mm							
Ant0	Back	3.198	0mm	-45.8	-78	-207	172.0	6.16	0.09	Not required
Ant8		2.468	0mm							
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm	9	85	-207				
No.10	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	3.205	0mm	3	-71	-207	141.0	5.16	0.08	Not required
Ant3		1.469	0mm	6	70	-207				
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm							
Ant1	Back	3.205	0mm	-6	-71.5	-207	161.5	5.16	0.07	Not required
Ant3		1.469	0mm							
WLAN5GHz Ant6		0.461	0mm	-57.2	81.7	-207				
NFC		0.029	0mm							
Ant1	Back	3.205	0mm	-6	-71.5	-207	157.2	5.16	0.07	Not required
Ant3		1.469	0mm							
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm	9	85	-207				
No.11	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	3.205	0mm	1	-71	-207	160.3	6.12	0.09	Not required
Ant4		2.426	0mm	1.1	89.3	-207				
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm							
Ant1	Back	3.205	0mm	-6	-71.5	-207	161.5	6.12	0.09	Not required
Ant4		2.426	0mm							
WLAN5GHz Ant6		0.461	0mm	-57.2	81.7	-207				
NFC		0.029	0mm							
Ant1	Back	3.205	0mm	-6	-71.5	-207	157.2	6.12	0.10	Not required
Ant4		2.426	0mm							
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm	9	85	-207				
No.12	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	3.205	0mm	-6	-71.5	-207	151.1	5.30	0.08	Not required
Ant5		1.601	0mm	-34	77	-207				
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm							
Ant1	Back	3.205	0mm	-6	-71.5	-207	161.5	5.30	0.08	Not required
Ant5		1.601	0mm							
WLAN5GHz Ant6		0.461	0mm	-57.2	81.7	-207				
NFC		0.029	0mm							
Ant1	Back	3.205	0mm	-6	-71.5	-207	157.2	5.30	0.08	Not required
Ant5		1.601	0mm							
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm	9	85	-207				
No.13	Position	SAR 10g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
Ant1	Back	3.205	0mm	-6	-71.5	-207	154.1	6.16	0.10	Not required
Ant8		2.468	0mm	-48	76.8	-207				
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm							
Ant1	Back	3.205	0mm	-6	-71.5	-207	161.5	6.16	0.09	Not required
Ant8		2.468	0mm							
WLAN5GHz Ant6		0.461	0mm	-57.2	81.7	-207				
NFC		0.029	0mm							
Ant1	Back	3.205	0mm	-6	-71.5	-207	157.2	6.16	0.10	Not required
Ant8		2.468	0mm							
WLAN5GHz Ant6		0.461	0mm							
NFC		0.029	0mm	9	85	-207				

16.7 Maximum Reported SAR and SAR Peak Locations

General Note:

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

<Head>

Right Cheek									
Band		Ant 1			Ant 3			Ant 4	
LTE Band 25(2)	SAR (W/kg)							0.812	
	Axis							9.9	-320.2 -173.8
LTE Band 7	SAR (W/kg)	0.444							
	Axis	92.9	-300.4	-171.3					
LTE Band 26(5)	SAR (W/kg)							0.878	
	Axis							9.7	-320.3 -173.8
LTE Band 66(4)	SAR (W/kg)							0.706	
	Axis							9.5	-321.4 -173.8
LTE Band 12(17)	SAR (W/kg)							0.734	
	Axis							9.3	-324.2 -173.7
LTE Band 13	SAR (W/kg)							0.730	
	Axis							8.6	-322.9 -173.7
LTE Band 14	SAR (W/kg)							0.760	
	Axis							12.4	-325.6 -174
LTE Band 30	SAR (W/kg)	0.183							
	Axis	92.6	-306	-171.2					
LTE Band 71	SAR (W/kg)							0.709	
	Axis							5.7	-321.1 -173.3
LTE Band 41(38)	SAR (W/kg)	0.179							
	Axis	91.8	-300.1	-171.3					
LTE Band 48	SAR (W/kg)								
	Axis								
FR1 n25(2)	SAR (W/kg)							0.690	
	Axis							8.5	-321.6 -173.6
FR1 n26(5)	SAR (W/kg)							0.881	
	Axis							12.4	-319 -174.1
FR1 n7	SAR (W/kg)	0.283						0.678	
	Axis	92.7	-300.4	-171.3				8.7	-323.7 -173.7
FR1 n12	SAR (W/kg)							0.719	
	Axis							11.4	-319.1 -174
FR1 n13	SAR (W/kg)							0.731	
	Axis							12.5	-321.1 -174.1
FR1 n14	SAR (W/kg)								
	Axis								
FR1 n30	SAR (W/kg)	0.108							
	Axis	93	-303	-171.2					
FR1 n66	SAR (W/kg)							0.589	
	Axis							7.4	-321.1 -173.6
FR1 n70	SAR (W/kg)							0.864	
	Axis							10.1	-323.1 -174
FR1 n71	SAR (W/kg)							0.531	
	Axis							13.1	-323.3 -174.1
FR1 n41	SAR (W/kg)	0.288						0.590	
	Axis	92.4	-300.4	-171.3				10.6	-323.5 -173.4
FR1 n48	SAR (W/kg)	0.001			0.881				
	Axis	87.8	-293.6	-172.6	28.4	-335.3	-174.3		
FR1 n77	SAR (W/kg)	0.001			0.823				
	Axis	88.9	-295.6	-172.9	32	-335.5	-174.3		
WLAN5GHz Ant 6	SAR (W/kg)	0.205			Bluetooth			0.095	
	Axis	-8.9	-292	-165.1	Ant 6			Axis	-9.5 -291.3 -165.1

Left Cheek									
Band		Ant 0	Ant 1		Ant 4		Ant 5		Ant 2
GSM850	SAR (W/kg)	0.183							
	Axis	87.9 267.8 -172.2							
GSM1900	SAR (W/kg)	0.049							
	Axis	90.1 247.2 -169.7							
WCDMA II	SAR	0.115							



	(W/kg)																								
WCDMA IV	Axis	90.6	245.2	-169.7																					
	SAR (W/kg)	0.134																							
	Axis	90.3	302.4	-171.5																					
WCDMA V	SAR (W/kg)	0.171																							
	Axis	88.5	266.9	-172.2																					
LTE Band 25(2)	SAR (W/kg)	0.181												0.600											
	Axis	90.9	244.8	-169.7							-2.2	307.5	-168.3												
LTE Band 7	SAR (W/kg)							0.627																	
	Axis				82.1	248.1	-174.4																		
LTE Band 26(5)	SAR (W/kg)	0.225												0.693											
	Axis	87.3	265.8	-172.2							11.8	302	-170.4												
LTE Band 66(4)	SAR (W/kg)	0.177												0.513											
	Axis	90.8	299.5	-171.8							16.9	315.6	-171.4												
LTE Band 12(17)	SAR (W/kg)	0.240												0.555											
	Axis	87.2	267.6	-175.5							2.9	305.3	-172.3												
LTE Band 13	SAR (W/kg)	0.203												0.552											
	Axis	87.5	268.6	-175.5							2.8	308.9	-172.4												
LTE Band 14	SAR (W/kg)	0.266												0.570											
	Axis	87.9	267.1	-175.5							3.2	307.1	-172.4												
LTE Band 30	SAR (W/kg)							0.301																	
	Axis				81.4	248.3	-174.4																		
LTE Band 71	SAR (W/kg)	0.178												0.547											
	Axis	87.6	266.1	-175.5							2.6	308.6	-172.4												
LTE Band 41(38)	SAR (W/kg)							0.405																	
	Axis				80.6	248.4	-174.5																		
LTE Band 48	SAR (W/kg)													0.838											
	Axis													9.6	321	-173.8									
FR1 n25(2)	SAR (W/kg)	0.131												0.504											
	Axis	90	246.7	-169.7							-3.1	308	-168.3												
FR1 n26(5)	SAR (W/kg)	0.185												0.710											
	Axis	87.6	268.6	-172.2							12.5	302.3	-170.4												
FR1 n7	SAR (W/kg)							0.428						0.481											
	Axis				84.1	245.6	-174.5				-7.7	304	-167.2												
FR1 n12	SAR (W/kg)	0.134												0.540											
	Axis	87.6	266.8	-175.5							2.7	306.8	-172.3												
FR1 n13	SAR (W/kg)	0.171												0.557											
	Axis	88.3	266.7	-175.5							2.6	308.6	-172.4												
FR1 n14	SAR (W/kg)	0.197																							
	Axis	87.2	269.5	-175.5																					
FR1 n30	SAR (W/kg)							0.171																	
	Axis				84.9	248	-174.7																		
FR1 n66	SAR (W/kg)	0.129												0.428											
	Axis	90.5	297.6	-171.8							17	313.2	-171.4												
FR1 n70	SAR (W/kg)	0.104												0.618											
	Axis	90.9	304.2	-171.5							16.5	314.2	-171.4												
FR1 n71	SAR (W/kg)	0.144												0.418											
	Axis	87.9	265.5	-175.5							2.9	308.1	-172.4												
FR1 n41	SAR (W/kg)							0.573						0.375											
	Axis				83.2	246.1	-174.6				-7.9	303.5	-167.2							0.368	0.707				
FR1 n48	SAR (W/kg)							0.027						0.859											
	Axis				80.2	252.4	-175							12.1	319.6	-174.1							50.5	329.7	-173.9
FR1 n77	SAR (W/kg)							0.001						0.786											



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		Left Tilted					
Band		Ant 0			Ant 5		
GSM850	SAR (W/kg)	0.166					
	Axis	69.9	293.2	-173.3			
GSM1900	SAR (W/kg)	0.028					
	Axis	66.6	319.5	-172.6			
WCDMA II	SAR (W/kg)	0.099					
	Axis	66.1	319	-172.6			
WCDMA IV	SAR (W/kg)	0.120					
	Axis	71.9	291.2	-173.5			
WCDMA V	SAR (W/kg)	0.093					
	Axis	69.1	292.6	-173.3			
LTE Band 25(2)	SAR (W/kg)	0.164					
	Axis	65.7	318.6	-172.6			
LTE Band 7	SAR (W/kg)						
	Axis						
LTE Band 26(5)	SAR (W/kg)	0.126					
	Axis	68.8	292.2	-173.3			
LTE Band 66(4)	SAR (W/kg)	0.181					
	Axis	70.2	293.1	-173.5			
LTE Band 12(17)	SAR (W/kg)	0.092					
	Axis	68.6	288.9	-173.5			
LTE Band 13	SAR (W/kg)	0.106					
	Axis	69.3	290.4	-173.5			
LTE Band 14	SAR (W/kg)	0.260					
	Axis	69.8	290.8	-173.5			
LTE Band 30	SAR (W/kg)						
	Axis						
LTE Band 71	SAR (W/kg)	0.096					
	Axis	70.5	291.1	-173.5			
LTE Band 41(38)	SAR (W/kg)						
	Axis						
LTE Band 48	SAR (W/kg)				0.794		
	Axis				2.3	317.8	-171
FR1 n25(2)	SAR (W/kg)	0.128					
	Axis	66.3	317.2	-172.6			
FR1 n26(5)	SAR (W/kg)	0.112					
	Axis	69.8	293.1	-173.3			
FR1 n7	SAR (W/kg)						
	Axis						
FR1 n12	SAR (W/kg)	0.076					
	Axis	72.8	289.5	-173.5			
FR1 n13	SAR (W/kg)	0.095					
	Axis	71.2	293.1	-173.5			
FR1 n14	SAR (W/kg)	0.112					
	Axis	71.9	291.4	-173.5			
FR1 n30	SAR (W/kg)						
	Axis						
FR1 n66	SAR (W/kg)	0.114					
	Axis	72.8	289.5	-173.5			
FR1 n70	SAR (W/kg)	0.086					
	Axis	71.6	289	-173.5			
FR1 n71	SAR (W/kg)	0.085					
	Axis	66.9	288.1	-173.5			
FR1 n41	SAR (W/kg)						
	Axis						
FR1 n48	SAR (W/kg)				0.776		
	Axis				2	318.4	-171
FR1 n77	SAR (W/kg)				0.714		
	Axis				1.6	319.8	-171

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FAX: 886-3-328-4978
Template version: 260717

<Hotspot>

		Front																				
Band		Ant 0			Ant 1			Ant 3			Ant 4			Ant 5			Ant 7			Ant 8		
GSM850	SAR (W/kg)	0.761																				
	Axis	2.3	-74.2	-207																		
GSM1900	SAR (W/kg)	0.624																				
	Axis	-36.6	-74.8	-207																		
WCDMA II	SAR (W/kg)	0.835																				
	Axis	-36.9	-79.6	-207																		
WCDMA IV	SAR (W/kg)	0.765																				
	Axis	-37.3	-75.7	-207																		
WCDMA V	SAR (W/kg)	0.645																				
	Axis	2.9	-74.8	-207																		
LTE Band 25(2)	SAR (W/kg)	0.637									0.229											
	Axis	-42.6	-77.4	-207							-41.2	88.9	-207									
LTE Band 7	SAR (W/kg)				1.108																	
	Axis				-48.6	-71.7	-207															
LTE Band 26(5)	SAR (W/kg)	0.676									0.273											
	Axis	3.5	-73.1	-207							-38.9	86.1	-207									
LTE Band 66(4)	SAR (W/kg)	0.611									0.227											
	Axis	-38.9	-75.2	-207							-39.5	88.1	-207									
LTE Band 12(17)	SAR (W/kg)	0.363									0.254											
	Axis	2.3	-76.8	-207							-41.3	86.9	-207									
LTE Band 13	SAR (W/kg)	0.780									0.295											
	Axis	1.9	-78.8	-207							-41	86.1	-207									
LTE Band 14	SAR (W/kg)	0.818									0.237											
	Axis	1.6	-75.1	-207							-41.2	86.6	-207									
LTE Band 30	SAR (W/kg)				0.928																	
	Axis				-50.5	-70.6	-207															
LTE Band 71	SAR (W/kg)	0.313									0.295											
	Axis	1.5	-76.8	-207							-41.6	85.7	-207									
LTE Band 41(38)	SAR (W/kg)				0.767																	
	Axis				-48.9	-72.3	-207															
LTE Band 48	SAR (W/kg)													0.317								
	Axis												-15.8	81.2	-207							
FR1 n25(2)	SAR (W/kg)	0.790									0.287											
	Axis	-36.1	-75.6	-207							-40	88.5	-207									
FR1 n26(5)	SAR (W/kg)	0.663									0.229											
	Axis	2	-75	-207							-38.5	87	-207									
FR1 n7	SAR (W/kg)				1.087						0.225											
	Axis				-49	-71	-207				-39.4	89	-207									
FR1 n12	SAR (W/kg)	0.333									0.261											
	Axis	0.5	-73.5	-207							-40	87	-207									
FR1 n13	SAR (W/kg)	0.642									0.287											
	Axis	0.9	-73.9	-207							-41	87.3	-207									
FR1 n14	SAR (W/kg)	0.641																				
	Axis	0.7	-72.4	-207																		
FR1 n30	SAR (W/kg)				0.883																	
	Axis				-50.2	-70	-207															
FR1 n66	SAR (W/kg)	0.696									0.212											
	Axis	-38.5	-75	-207							-40	88.5	-207									
FR1 n70	SAR	0.717									0.334											



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	(W/kg)												
	Axis	-38.8	-74.2	-207						-40.2	88.9	-207	
FR1 n71	SAR (W/kg)	0.212						0.271					
	Axis	1	-75.1	-207						-41.2	86.5	-207	
FR1 n41	SAR (W/kg)				0.739			0.198			0.396		
	Axis				-50.1	-72.1	-207			-39.8	88.6	-207	11.5 69 -207
FR1 n48	SAR (W/kg)				0.199			0.334			0.227		
	Axis				-35	-79	-207	-64	70	-207	-15	81	-207 13 51 -207
FR1 n77	SAR (W/kg)				0.527			0.221			0.150		
	Axis				-36.2	-78.1	-207	-64.3	71.1	-207	-15.2	80.6	-207 12.6 50.8 -207
WLAN5GHz Ant 6	SAR (W/kg)	0.373						0.081					
	Axis	6	82	-207						6.5	81.6	-207	

Back													
Band		Ant 0			Ant 1			Ant 2			Ant 3		
GSM850	SAR (W/kg)	1.285											
	Axis	-35.1	-77.1	-207									
GSM1900	SAR (W/kg)	0.634											
	Axis	-30.8	-76.8	-207									
WCDMA II	SAR (W/kg)	0.743											
	Axis	-31.6	-75.5	-207									
WCDMA IV	SAR (W/kg)	0.923											
	Axis	-16.4	-81.6	-207									
WCDMA V	SAR (W/kg)	1.225											
	Axis	-37	-79.3	-207									
LTE Band 25(2)	SAR (W/kg)	0.587									0.305		
	Axis	-33.1	-76.7	-207							0.1	73.6	-207
LTE Band 7	SAR (W/kg)				1.285								
	Axis				-3	-71	-207						
LTE Band 26(5)	SAR (W/kg)	1.266									0.606		
	Axis	-36.1	-77.6	-207							-5.7	81.9	-207
LTE Band 66(4)	SAR (W/kg)	0.664									0.344		
	Axis	-17.7	-81.4	-207							1.1	74.3	-207
LTE Band 12(17)	SAR (W/kg)	0.541									0.606		
	Axis	-36.5	-76.8	-207							-2.4	82.6	-207
LTE Band 13	SAR (W/kg)	1.273									0.609		
	Axis	-37.4	-78.1	-207							-5.7	82.4	-207
LTE Band 14	SAR (W/kg)	1.253									0.598		
	Axis	-33.9	-76.4	-207							-6.4	84.6	-207
LTE Band 30	SAR (W/kg)				1.289								
	Axis				-3	-71	-207						
LTE Band 71	SAR (W/kg)	0.441									0.610		
	Axis	-17.7	-72.3	-207							-3.9	82.6	-207
LTE Band 41(38)	SAR (W/kg)				1.270								
	Axis				-3.5	-71.5	-207						
LTE Band 48	SAR (W/kg)										0.618		
	Axis										-36.5	77.5	-207
FR1 n25(2)	SAR (W/kg)	0.767									0.375		
	Axis	-32.5	-76.1	-207							-0.1	77.6	-207
FR1 n26(5)	SAR (W/kg)	1.216									0.599		
	Axis	-30.5	-75.8	-207							-9.4	89.1	-207
FR1 n7	SAR (W/kg)				1.268						0.485		
	Axis												



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WLAN5GHz Ant 6	SAR (W/kg)	0.66				Bluetooth Ant 6	SAR (W/kg)	0.135		
	Axis	-57.2	81.7	-207			Axis	-50	78	-207



<Body-worn>

		Front																							
Band		Ant 0			Ant 1			Ant 2			Ant 3			Ant 4			Ant 5			Ant 7			Ant 8		
GSM850	SAR (W/kg)	0.761																							
	Axis	2.3	-74.2	-207																					
GSM1900	SAR (W/kg)	0.858																							
	Axis	-36.6	-74.8	-207																					
WCDMA II	SAR (W/kg)	1.268																							
	Axis	-36.9	-79.6	-207																					
WCDMA IV	SAR (W/kg)	1.146																							
	Axis	-37.3	-75.7	-207																					
WCDMA V	SAR (W/kg)	0.645																							
	Axis	2.9	-74.8	-207																					
LTE Band 25(2)	SAR (W/kg)	1.276												0.592											
	Axis	-42.6	-77.4	-207										-41.2			88.9	-207							
LTE Band 7	SAR (W/kg)				1.108																				
	Axis				-48.6	-71.7	-207																		
LTE Band 26(5)	SAR (W/kg)	0.676												0.396											
	Axis	3.5	-73.1	-207										-38.9			86.1	-207							
LTE Band 66(4)	SAR (W/kg)	1.207												0.463											
	Axis	-38.9	-75.2	-207										-39.5			88.1	-207							
LTE Band 12(17)	SAR (W/kg)	0.363												0.347											
	Axis	2.3	-76.8	-207										-41.3			86.9	-207							
LTE Band 13	SAR (W/kg)	0.780												0.426											
	Axis	1.9	-78.8	-207										-41			86.1	-207							
LTE Band 14	SAR (W/kg)	0.818												0.318											
	Axis	1.6	-75.1	-207										-41.2			86.6	-207							
LTE Band 30	SAR (W/kg)				0.928																				
	Axis				-50.5	-70.6	-207																		
LTE Band 71	SAR (W/kg)	0.313												0.415											
	Axis	1.5	-76.8	-207										-41.6			85.7	-207							
LTE Band 41(38)	SAR (W/kg)				0.767																				
	Axis				-48.9	-72.3	-207																		
LTE Band 48	SAR (W/kg)																0.415								
	Axis																-15.8	81.2	-207						
FR1 n25(2)	SAR (W/kg)	0.992												0.682											
	Axis	-36.1	-75.6	-207										-40			88.5	-207							
FR1 n26(5)	SAR (W/kg)	0.663												0.276											
	Axis	2	-75	-207										-38.5			87	-207							
FR1 n7	SAR (W/kg)				1.087									0.409											
	Axis				-49	-71	-207							-39.4			89	-207							
FR1 n12	SAR (W/kg)	0.280												0.387											
	Axis	0.5	-73.5	-207										-40			87	-207							
FR1 n13	SAR (W/kg)	0.642												0.374											
	Axis	0.9	-73.9	-207										-41			87.3	-207							
FR1 n14	SAR (W/kg)	0.641																							
	Axis	0.7	-72.4	-207																					
FR1 n30	SAR (W/kg)				0.883																				
	Axis				-50.2	-70	-207																		
FR1 n66	SAR (W/kg)	1.134												0.501											
	Axis	-38.5	-75	-207										-40			88.5	-207							
FR1 n70	SAR	0.973												0.565											



FR1 n71	(W/kg)																							
	Axis	-38.8	-74.2	-207									-40.2	88.9	-207									
	SAR (W/kg)	0.274									0.284													
	Axis	1	-75.1	-207									-41.2	86.5	-207									
FR1 n41	SAR (W/kg)				0.862			0.001			0.312						0.453							
	Axis				-50.1	-72.1	-207	-73	31	-207				-39.8	88.6	-207				11.5	69	-207		
FR1 n48	SAR (W/kg)				0.199						0.334						0.323			0.058				
	Axis				-35	-79	-207				-64	70	-207				-15	81	-207			13	51	-207
FR1 n77	SAR (W/kg)				0.527						0.458						0.469			0.036				
	Axis				-36.2	-78.1	-207				-64.3	71.1	-207				-15.2	80.6	-207				12.6	50.8
WLAN5GHz Ant 6	SAR (W/kg)	0.244				Bluetooth Ant 6	SAR (W/kg)	0.081																
	Axis	6	82	-207			Axis	6.5	81.6	-207														

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Template version: 260717



FR1 n12	Axis				4	-69	-207						-13.5	85	-207											
	SAR (W/kg)	0.422											0.886													
	Axis	-33	-78.3	-207									-8.9	83.9	-207											
FR1 n13	SAR (W/kg)	0.981											0.787													
	Axis	-36.5	-74.8	-207									-9.4	85.4	-207											
FR1 n14	SAR (W/kg)	0.944																								
	Axis	-36	-74.8	-207																						
FR1 n30	SAR (W/kg)				1.275																					
	Axis				4	-69.5	-207																			
FR1 n66	SAR (W/kg)	1.281											0.801													
	Axis	-10.2	-77.2	-207									1.4	77.1	-207											
FR1 n70	SAR (W/kg)	1.286											0.884													
	Axis	-3	-86.2	-207									-3.1	84.1	-207											
FR1 n71	SAR (W/kg)	0.398											0.637													
	Axis	-29.5	-84.3	-207									0.8	80.6	-207											
FR1 n41	SAR (W/kg)				1.273			0.724					0.877						0.415							
	Axis				3.5	-70	-207	16.5	38	-207			-10.5	84	-207				-58.6	68	-207					
FR1 n48	SAR (W/kg)				0.289						0.403						0.874						0.883			
	Axis				1.5	-67.5	-207				5	70	-207				-34	77	-207				-51	36.8	-207	
FR1 n77	SAR (W/kg)				1.059						0.840						0.538						0.879			
	Axis				0	-75.5	-207				6	70	-207				-34.5	79	-207				-48.2	55.1	-207	
WLAN5GHz Ant 6	SAR (W/kg)	0.361				Bluetooth Ant 6	SAR (W/kg)	0.135																		
	Axis	-57.2	81.7	-207			Axis	-50	78	-207																

<Extremity>

		Front											
Band		Ant 0			Ant 1			Ant 3			Ant 4		
GSM850	SAR (W/kg)	1.567											
	Axis	2.3	-74.2	-207									
GSM1900	SAR (W/kg)												
	Axis												
WCDMA II	SAR (W/kg)	2.178											
	Axis	-36.9	-79.6	-207									
WCDMA IV	SAR (W/kg)	2.254											
	Axis	-37.3	-75.7	-207									
WCDMA V	SAR (W/kg)												
	Axis												
LTE Band 25(2)	SAR (W/kg)	2.409									1.303		
	Axis	-42.6	-77.4	-207							-41.2	88.9	-207
LTE Band 7	SAR (W/kg)				2.292								
	Axis				-48.6	-71.7	-207						
LTE Band 26(5)	SAR (W/kg)												
	Axis												
LTE Band 66(4)	SAR (W/kg)	3.057									1.143		
	Axis	-38.9	-75.2	-207							-39.5	88.1	-207
LTE Band 12(17)	SAR (W/kg)												
	Axis												
LTE Band 13	SAR (W/kg)												
	Axis												
LTE Band 14	SAR (W/kg)												
	Axis												
LTE Band 30	SAR (W/kg)				1.933								
	Axis				-50.5	-70.6	-207						
LTE Band 71	SAR (W/kg)												
	Axis												
LTE Band 41(38)	SAR (W/kg)				1.387								
	Axis				-48.9	-72.3	-207						
LTE Band 48	SAR (W/kg)												
	Axis												
FR1 n25(2)	SAR (W/kg)	2.140									1.320		
	Axis	-36.1	-75.6	-207							-40	88.5	-207
FR1 n26(5)	SAR (W/kg)												
	Axis												
FR1 n7	SAR (W/kg)				2.344						2.377		
	Axis				-49	-71	-207				-39.4	89	-207
FR1 n12	SAR (W/kg)												
	Axis												
FR1 n13	SAR (W/kg)												
	Axis												
FR1 n14	SAR (W/kg)												
	Axis												
FR1 n30	SAR (W/kg)												
	Axis												
FR1 n66	SAR (W/kg)	1.900											
	Axis	-38.5	-75	-207									
FR1 n70	SAR (W/kg)	1.557											
	Axis	-38.8	-74.2	-207									
FR1 n71	SAR (W/kg)												
	Axis												
FR1 n41	SAR (W/kg)				1.979						2.153		
	Axis				-50.1	-72.1	-207				-39.8	88.6	-207
FR1 n48	SAR (W/kg)												
	Axis										2.097		
FR1 n77	SAR (W/kg)												
	Axis							0.514			2.034		
								-64.3	71.1	-207			
											-15.2	80.6	-207

WLAN2.4GHz Ant 6	SAR (W/kg)	0.888			NFC	SAR (W/kg)	0.001		
	Axis	6.5	86.5	-207		Axis	-58.9	83	-207

Back													
Band		Ant 0			Ant 1			Ant 3			Ant 4		
GSM850	SAR (W/kg)	1.748											
	Axis	-35.1	-77.1	-207									
GSM1900	SAR (W/kg)												
	Axis												
WCDMA II	SAR (W/kg)	3.176											
	Axis	-15.7	-77.7	-207									
WCDMA IV	SAR (W/kg)	2.916											
	Axis	-7.8	-78.7	-207									
WCDMA V	SAR (W/kg)	1.350											
	Axis	-37	-79.3	-207									
LTE Band 25(2)	SAR (W/kg)	3.174									1.379		
	Axis	-15.2	-75.5	-207							0.15	89.6	-207
LTE Band 7	SAR (W/kg)				3.155								
	Axis				3	-71	-207						
LTE Band 26(5)	SAR (W/kg)	2.377									1.433		
	Axis	-35.5	-78.5	-207							-5.4	89.9	-207
LTE Band 66(4)	SAR (W/kg)	3.144									1.381		
	Axis	-16.1	-79.1	-207							1.1	89.3	-207
LTE Band 12(17)	SAR (W/kg)												
	Axis												
LTE Band 13	SAR (W/kg)	2.000											
	Axis	-45.8	-78	-207									
LTE Band 14	SAR (W/kg)	1.658											
	Axis	-42.7	-78	-207									
LTE Band 30	SAR (W/kg)				3.178								
	Axis				-3	-72.5	-207						
LTE Band 71	SAR (W/kg)												
	Axis												
LTE Band 41(38)	SAR (W/kg)				2.945								
	Axis				-1	-72	-207						
LTE Band 48	SAR (W/kg)										0.833		
	Axis										-36.5	77.5	-207
FR1 n25(2)	SAR (W/kg)	3.198									1.281		
	Axis	-10.1	-75.8	-207							-0.1	90.6	-207
FR1 n26(5)	SAR (W/kg)	1.451											
	Axis	-41.5	-80.5	-207									
FR1 n7	SAR (W/kg)				3.205						2.426		
	Axis				-6	-71.5	-207				-14	93	-207
FR1 n12	SAR (W/kg)												
	Axis												
FR1 n13	SAR (W/kg)												
	Axis												
FR1 n14	SAR (W/kg)												
	Axis												
FR1 n30	SAR (W/kg)				3.028								
	Axis				1	-71	-207						
FR1 n66	SAR (W/kg)	2.388									1.548		
	Axis	-17.6	-78.6	-207							1.4	90.1	-207
FR1 n70	SAR (W/kg)	2.173											



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	Axis	-20	-80.5	-207															
FR1 n71	SAR (W/kg)																		
	Axis																		
FR1 n41	SAR (W/kg)																		
	Axis																		
FR1 n48	SAR (W/kg)																		
	Axis																		
FR1 n77	SAR (W/kg)																		
	Axis																		

WLAN5GHz Ant 6	SAR (W/kg)																		
	Axis																		

Test Engineer: Jordar Jhuang, Teddy Chang, Andy Chiang, Kevin Guo and Howard Zhao

17. Uncertainty Assessment

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

Declaration of Conformity:

The test results with all measurement uncertainty excluded is 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.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	$1/k^{(b)}$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Applicable for SAR Measurements:

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						14.5%	14.2%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.4%

18. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [14] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [15] IEC/IEEE 62209-1528:2020, "Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)", Oct. 2020

Appendixes

Please refer to separated files for the following appendixes

Appendix A. Plots of System Performance Check

Appendix B. Plots of High SAR Measurement

Appendix C. DASY Calibration Certificate

Appendix D. Test Setup Photos

Appendix E. Conducted RF Output Power Table

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

Appendix G. Power reduction mechanism verification

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