

FCC SAR TEST REPORT

FCC ID : A4RG4QUR
Equipment : Phone
Model Name : G4QUR
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Jan. 15, 2025 and testing was started from Dec. 23, 2024 and completed on Mar. 16, 2025. 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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History of this test report

Report No.	Version	Description	Issued Date
FA4N0917D	01	Initial issue of report	Apr. 08, 2025
FA4N0917D	02	Update section2.2, 3, 14.2, 14.3, appendix D-1, D-2, G	Apr. 17, 2025



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Google LLC, Phone, G4QUR, 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 0mm)	Body-worn (Separation 10mm)	Hotspot (Separation 10mm)	Product Specific (Separation 0mm)		
		1g SAR (W/kg)			10g SAR (W/kg)		
Licensed	GSM850	0.93	0.95	0.70		1.59	2.79
	GSM1900	0.59	0.78	0.83			
	WCDMA II	0.70	0.96	0.77	2.38		
	WCDMA IV	0.68	0.97	0.85	2.39		
	WCDMA V	0.94	0.73	0.63			
	LTE B7	0.93	0.94	0.83	2.46		
	LTE B12/B17	0.88	0.40	0.57			
	LTE B13	0.93	0.57	0.56			
	LTE B14	0.93	0.62	0.58			
	LTE B25/B2	0.99	0.99	0.84	2.38		
	LTE B26/B5	0.88	0.68	0.59			
	LTE B30	0.47	0.89	0.82			
	LTE B41/B38	0.87	0.97	0.76	2.50		
	LTE B48	0.13	0.32	0.46			
	LTE B66/B4	0.86	0.98	0.83			
	LTE B71	0.90	0.39	0.44			
	FR1 n7	0.93	0.72	0.65	2.10		
	FR1 n12	0.89	0.42	0.55			
	FR1 n14	0.87	0.57	0.57			
	FR1 n25/n2	0.91	0.96	0.83	2.27		
	FR1 n26/n5	0.93	0.66	0.66			
	FR1 n30	0.58	0.84	0.83			
	FR1 n41/n38	0.93	0.96	0.84	2.28		
	FR1 n48	0.93	0.56	0.67			
	FR1 n66	0.97	0.91	0.85	2.21		
	FR1 n70	0.59	0.80	0.80			
	FR1 n71	0.93	0.36	0.45			
	FR1 n77/n78	0.94	0.61	0.69			
NTN B23		0.53		2.45			
NTN B255		0.95		2.48			
DTS	2.4GHz WLAN	0.69	0.71	0.24		1.59	
NII	5GHz WLAN	0.79	0.59	0.26	2.79	1.59	2.79
6CD	6GHz WLAN	0.55	0.11	0.14	0.64	1.59	2.79
DSS	Bluetooth	0.24	0.52	0.29		1.59	
DTS	Thread	0.20	0.71	0.24		1.58	
DXX	NFC				0.02		2.79
Equipment Class	Frequency Band	Head Reported APD (mW/cm^2)	Body-worn Reported APD (mW/cm^2)	Hotspot Reported APD (mW/cm^2)	Product Specific Reported APD (mW/cm^2)	Reported PD (mW/cm^2)	
6CD	6GHz WLAN	0.32	0.09	0.11	1.51	0.75	
Date of Testing:		2024/12/23 ~ 2025/3/16					

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), Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang
Report Producer: Daisy Peng



2. Equipment Under Test (EUT) Information

2.1 General Information

Product Feature & Specification	
Applicant Name	Google LLC
Equipment Name	Phone
Model Name	G4QUR
FCC ID	A4RG4QUR
S/N	4C311FDCH000HX, 4C311FDCH000HJ, 51091FDCH0006Z, 51091FDCH00074
Frequency Band	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR 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, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz 5G NR n258 : 24.25 GHz~24.45 GHz, 24.75GHz ~25.25GHz 5G NR n260 : 37 GHz~40 GHz 5G NR n261 : 27.5 GHz~28.35 GHz NTN Band 23: 2000 MHz ~2020 MHz NTN Band 255: 1626.5 MHz ~ 1660.5 MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 5.9 GHz Band: 5850 MHz ~ 5895 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425 MHz~6525 MHz, 6525 MHz~6875 MHz, 6875 MHz~7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz WPC: 110 kHz ~ 148.5 kHz(Rx) UWB: 6489.6 MHz, 7987.2 MHz Thread: 2405 MHz ~ 2480 MHz

Mode	GSM/GPRS/EGPRS UMTS: RMC/AMR 12.2Kbps, HSDPA, HSUPA LTE: QPSK, 16QAM, 64QAM, 256QAM NTN: BPSK, QPSK 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160 Bluetooth BR/EDR/LE/CS NFC: ASK WPC: ASK UWB: BPM-BPSK/HPSK Thread: QPSK
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.
Remark: 1. Dynamic antenna tuning mechanism is available at Ant. 0/2, for its < 3GHz LTE and NR band, and the supplemental antenna tuner test results were including in appendix G, details are illustrated in the operational description. 2. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz and 6GHz VLP supports Hotspot operation and Bluetooth support tethering applications. 3. The device implements the power management and sensor detection for SAR compliance at different exposure conditions (head, body-worn, hotspot and product specific, the TAS feature will manage to ensure the power level not exceeding the associated power table. Also device implement Spatial TAS predefine antenna group to analysis simultaneous transmission include in appendix F. 4. The device implements the sensor detection for SAR compliance and the power verification include in appendix E. 5. The device additionally support uplink MIMO on n41/n77/n78, due to UL MIMO antenna operating on different antenna groups, therefore TAS validation is not required. 6. The PC1.5 only support uplink MIMO. 7. The UWB output power is -10.3dBm and it is less than 1mW and exempt from power density testing.	

2.2 Maximum Tune-up Limit

General Note:

- In the report PC3 as power class3, PC2 as power class2, PC1.5 as power class1.5.
- For each cellular band, the device has several WWAN antennas, the antenna selection is based on the connection quality condition.
- The following table shows maximum output power configurations for various exposure conditions (output power index) with tune-up tolerance accounted. For TAS enabled bands, the values associate with Plimit plus the total uncertainty, or Pmax plus total uncertainty when the derived Plimit is higher than Pmax. In some frequency bands, for some power indexes which associate with the same power level, conducted power measurement for those only need to perform at once. Detail output power measurement refer to appendix D.
- The index 1 is for the max power conditions, and the use case were evaluated in appendix G.
- SAR compliance for the scenario, when device in next-to-ear voice call with hotspot enabled, is justified via head SAR test at Power Index 3.
- The PC1.5 NR SAR was not required, due to PC1.5 operate in the time-averaged and burst transmission power is less than PC2, therefore, only PC2 was performed on the highest SAR test configuration in PC3, and use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%.
- Thread only transmit on antenna 3 and cannot not transmit with Bluetooth at same time.
- The PC1.5 only support uplink MIMO configuration, and which per chain target power of uplink MIMO associated with PC2 power level so that the combined total power of uplink MIMO power achieve to Power class 1.5 level

Support transmit antenna and band	
Ant Config Tx0	ANT 0: GSM850, UMTS B5, LTE B5/B12/B13/B14/B17/B26/B71, NR n5/n12/n14/n26/n71
	ANT 1: LTE B2/B4/B25/B66, NR n2/n25/n38/n41/n48/n66/n77/n78, NTN B23
	ANT 2: GSM1900, UMTS B2/B4, LTE B2/B4/B7/B25/B30/B38/B41/B66, NR n2/n7/n25/n30/n38/n41/n66/n70
	ANT 4: NTN B255
	ANT 6: LTE B48, NR n48/n77/n78
Ant Config Tx1	ANT 0: GSM1900, UMTS B2/B4, LTE B2/B4/B7/B25/B30/B38/B41/B66, NR n2/n7/n25/n30/n38/n41/n66/n70
	ANT 1: GSM850, UMTS B5, LTE B5/B12/B13/B14/B17/B26/B71, NR n5/n12/n14/n26/n71
	ANT 5: LTE B2/B4/B25/B66, NR n2/n25/n38/n41/n48/n66/n77/n78
	ANT 7: LTE B48, NR n48/n77/n78

Maximum Transmit Burst Average Power (dBm)								
Wireless technology	Mode	Antenna	Maximum Power Condition	Head	Head	Hotspot	Body-worn/Extremity	Body-worn/Extremity
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
				Index 1	Index 2	Index 3	Index 4	Index 5
GSM850	GSM/GPRS 1TX	Ant0		33.50	33.50	33.50	33.50	33.50
	GPRS 2TX			32.50	32.20	31.00	30.80	31.40
	GPRS 3TX			31.50	30.40	29.20	29.00	29.60
	GPRS 4TX			30.50	29.20	28.00	27.80	28.40
	EDGE 1TX			27.50	27.50	27.50	27.50	27.50
	EDGE 2TX			26.50	26.50	26.50	26.50	26.50
	EDGE 3TX			25.50	25.50	25.50	25.50	25.50
	EDGE 4TX			24.50	24.50	24.50	24.50	24.50
GSM850	GSM/GPRS 1TX	Ant1		33.10	32.10	30.90	33.10	33.10
	GPRS 2TX			32.10	29.10	27.90	32.10	32.10
	GPRS 3TX			31.10	27.30	26.10	31.10	31.10
	GPRS 4TX			30.10	26.10	24.90	30.10	30.10
	EDGE 1TX			27.10	27.10	27.10	27.10	27.10
	EDGE 2TX			26.10	26.10	26.10	26.10	26.10
	EDGE 3TX			25.10	25.10	25.10	25.10	25.10
	EDGE 4TX			24.10	24.10	24.10	24.10	24.10
GSM1900	GSM/GPRS 1TX	Ant2		30.50	30.50	30.50	30.50	30.50
	GPRS 2TX			29.00	29.00	29.00	27.50	27.60
	GPRS 3TX			28.50	28.50	28.50	25.70	25.80
	GPRS 4TX			27.50	27.50	27.50	24.50	24.60
	EDGE 1TX			26.50	26.50	26.50	26.50	26.50
	EDGE 2TX			25.50	25.50	25.50	25.50	25.50
	EDGE 3TX			24.50	24.50	24.50	24.50	24.50
	EDGE 4TX			23.50	23.50	23.50	23.50	23.50
GSM1900	GSM/GPRS 1TX	Ant0		29.60	29.60	29.60	26.80	27.50
	GPRS 2TX			28.10	28.10	28.10	23.80	24.50
	GPRS 3TX			27.60	27.60	27.60	22.00	22.70
	GPRS 4TX			26.60	26.60	26.60	20.80	21.50
	EDGE 1TX			25.60	25.60	25.60	25.60	25.60
	EDGE 2TX			24.60	24.60	24.60	23.80	24.50
	EDGE 3TX			23.60	23.60	23.60	22.00	22.70
	EDGE 4TX			22.60	22.60	22.60	20.80	21.50



Maximum Transmit Burst Average Power (dBm)								
Wireless technology	Mode	Antenna	Maximum Power Condition Index 1	Head	Head	Hotspot	Body-worn/Extremity	Body-worn/Extremity
				Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous
				Index 2	Index 3	Index 4	Index 5	Index 6
WCDMA B2	R99	Ant2	25.20	25.20	25.20	22.00	22.70	22.00
WCDMA B2	R99	Ant0	24.30	24.30	24.30	17.50	20.60	19.90
WCDMA B4	R99	Ant2	25.20	25.20	25.20	22.00	22.70	22.00
WCDMA B4	R99	Ant0	24.30	24.30	24.30	18.70	20.90	20.20
WCDMA B5	R99	Ant0	25.50	25.50	25.50	24.90	25.50	25.50
WCDMA B5	R99	Ant1	25.10	22.00	20.80	25.10	25.10	25.10
LTE B7	PC3	Ant2	25.00	24.50	23.30	19.90	20.60	19.90
CA_7C	PC3	Ant2	24.50	24.50	23.30	19.90	20.60	19.90
LTE B7	PC3	Ant0	24.60	24.60	24.60	18.80	21.10	20.40
CA_7C	PC3	Ant0	24.50	24.50	24.50	18.80	21.10	20.40
LTE B12/B17	PC3	Ant0	25.10	25.10	25.10	25.10	25.10	25.10
LTE B12/B17	PC3	Ant1	24.70	23.00	22.10	24.70	24.70	24.70
LTE B13	PC3	Ant0	25.10	25.10	25.10	24.30	25.10	25.10
LTE B13	PC3	Ant1	24.70	22.20	21.00	24.70	24.70	24.70
LTE B14	PC3	Ant0	25.10	25.10	25.10	24.80	25.10	25.10
LTE B14	PC3	Ant1	24.70	22.40	21.20	24.70	24.70	24.70
LTE B25/B2	PC3	Ant2	25.00	25.00	25.00	21.30	22.00	21.30
LTE B25/B2	PC3	Ant0	24.10	24.10	24.10	17.30	20.20	19.50
LTE B25/B2	PC3	Ant1	25.00	16.80	16.10	22.00	22.70	22.00
LTE B25/B2	PC3	Ant5	24.60	18.20	17.00	22.30	23.80	23.10
LTE B26/B5	PC3	Ant0	25.10	25.10	25.10	24.50	25.10	25.10
CA_5B	PC3	Ant0	24.50	24.50	24.50	24.50	24.50	24.50
LTE B26/B5	PC3	Ant1	24.70	22.10	20.90	24.70	24.70	24.70
CA_5B	PC3	Ant1	24.50	22.10	20.90	24.50	24.50	24.50
LTE B30	PC3	Ant2	22.50	22.50	21.80	20.50	21.20	20.50
LTE B30	PC3	Ant0	21.80	21.80	21.80	19.60	21.10	20.40
LTE B41/B38	PC3	Ant2	25.00	25.00	24.10	23.50	24.20	23.50
LTE B41/B38	PC2	Ant2	26.90	26.90	25.70	25.10	25.80	25.10
CA_41C/38C	PC3	Ant2	24.50	24.50	24.10	23.50	24.20	23.50
LTE B41/B38	PC3	Ant0	24.60	24.60	24.60	21.10	23.80	23.10
LTE B41/B38	PC2	Ant0	26.50	26.50	26.50	22.70	25.40	24.70
CA_41C/38C	PC3	Ant0	24.50	24.50	24.50	21.10	23.80	23.10
LTE B48	PC3	Ant6	20.90	20.90	20.90	20.90	20.90	20.90
LTE B48	PC3	Ant7	21.00	21.00	21.00	21.00	21.00	21.00
LTE B66/B4	PC3	Ant2	25.00	25.00	25.00	21.70	22.40	21.70
CA_66B/66C	PC3	Ant2	24.50	24.50	24.50	21.70	22.40	21.70
LTE B66/B4	PC3	Ant0	24.10	24.10	24.10	18.80	20.30	19.60
CA_66B/66C	PC3	Ant0	24.10	24.10	24.10	18.80	20.30	19.60
LTE B66/B4	PC3	Ant1	25.00	17.60	16.80	23.00	23.70	23.00
LTE B66/B4	PC3	Ant5	24.60	17.00	15.80	22.10	23.60	22.90
LTE B71	PC3	Ant0	25.10	25.10	25.10	25.10	25.10	25.10
LTE B71	PC3	Ant1	24.70	24.00	22.90	24.70	24.70	24.70
FR1 n7	PC3	Ant2	25.10	23.50	22.30	20.20	20.90	20.20
FR1 n7	PC3	Ant0	24.70	24.70	24.70	17.90	20.90	20.20
FR1 n12	PC3	Ant0	25.10	25.10	25.10	25.10	25.10	25.10
FR1 n12	PC3	Ant1	24.70	22.80	21.80	24.70	24.70	24.70
FR1 n14	PC3	Ant0	25.10	25.10	25.10	25.10	25.10	25.10
FR1 n14	PC3	Ant1	24.70	22.30	21.40	24.70	24.70	24.70
FR1 n25/n2	PC3	Ant2	25.00	25.00	25.00	21.10	21.80	21.10
FR1 n25/n2	PC3	Ant0	24.10	24.10	24.10	17.70	20.00	19.30
FR1 n25/n2	PC3	Ant1	25.00	16.60	15.90	21.60	22.30	21.60



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FR1 n25/n2	PC3	Ant5	24.60	18.20	17.00	21.80	23.30	22.60
FR1 n26/n5	PC3	Ant0	25.10	25.10	25.10	25.10	25.10	25.10
FR1 n26/n5	PC3	Ant1	24.70	21.60	20.40	24.70	24.70	24.70
FR1 n30	PC3	Ant2	22.50	22.50	22.50	20.50	21.20	20.50
FR1 n30	PC3	Ant0	21.40	21.40	21.40	19.80	21.30	20.60
FR1 n41/n38	PC3	Ant2	25.00	23.50	22.30	21.50	22.20	21.50
FR1 n41	PC2	Ant2	26.90	26.50	25.30	24.50	25.20	24.50
FR1 n41	PC1.5	Ant2	26.40	26.40	25.30	24.50	25.20	24.50
FR1 n41/n38	PC3	Ant0	24.60	24.60	24.60	19.60	21.70	21.00
FR1 n41	PC2	Ant0	26.50	26.50	26.50	22.60	24.70	24.00
FR1 n41	PC1.5	Ant0	26.00	26.00	26.00	22.60	24.70	24.00
FR1 n41/n38	PC3	Ant1	25.00	14.70	14.00	19.80	20.80	20.10
FR1 n41	PC2	Ant1	26.90	17.70	17.00	22.80	23.80	23.10
FR1 n41	PC1.5	Ant1	26.40	17.70	17.00	22.80	23.80	23.10
FR1 n41/n38	PC3	Ant5	24.60	18.40	17.20	21.80	23.30	22.60
FR1 n41	PC2	Ant5	26.50	21.40	20.20	24.80	26.30	25.60
FR1 n41	PC1.5	Ant5	26.00	21.40	20.20	24.80	26.00	25.60
FR1 n48	PC3	Ant6	20.90	20.90	20.90	20.90	20.90	20.90
FR1 n48	PC3	Ant7	21.00	21.00	21.00	19.60	20.30	19.60
FR1 n48	PC3	Ant1	22.50	17.40	16.20	19.00	19.70	19.00
FR1 n48	PC3	Ant5	23.60	16.20	15.00	22.30	23.00	22.30
FR1 n66	PC3	Ant2	25.00	25.00	25.00	21.30	22.00	21.30
FR1 n66	PC3	Ant0	24.10	24.10	24.10	18.60	20.40	19.70
FR1 n66	PC3	Ant1	25.00	17.50	16.30	22.60	23.30	22.60
FR1 n66	PC3	Ant5	24.60	17.70	16.50	22.60	23.80	23.10
FR1 n70	PC3	Ant2	24.70	24.70	24.70	22.10	22.80	22.10
FR1 n70	PC3	Ant0	23.80	23.80	23.80	18.50	20.20	19.50
FR1 n71	PC3	Ant0	25.10	25.10	25.10	25.10	25.10	25.10
FR1 n71	PC3	Ant1	24.70	24.00	22.80	24.70	24.70	24.70
FR1 n77/n78	PC3	Ant6	25.10	23.40	22.20	18.70	19.40	18.70
FR1 n77/n78	PC2	Ant6	27.10	26.40	25.20	21.70	22.40	21.70
FR1 n77	PC1.5	Ant6	26.60	26.40	25.20	21.70	22.40	21.70
FR1 n77/n78	PC3	Ant7	24.70	24.70	23.80	18.90	19.60	18.90
FR1 n77/n78	PC2	Ant7	26.50	26.50	26.50	21.70	22.40	21.70
FR1 n77	PC1.5	Ant7	26.00	26.00	26.00	21.70	22.40	21.70
FR1 n77/n78	PC3	Ant1	25.10	15.70	14.50	18.30	19.80	19.10
FR1 n77	PC2	Ant1	27.10	18.70	17.50	21.30	22.80	22.10
FR1 n77	PC1.5	Ant1	26.50	18.70	17.50	21.30	22.80	22.10
FR1 n77/n78	PC3	Ant5	23.60	16.80	15.60	21.70	22.40	21.70
FR1 n77	PC2	Ant5	25.60	19.80	18.60	24.70	25.40	24.70
FR1 n77	PC1.5	Ant5	26.00	20.10	18.90	25.00	25.70	25.00
NTN B23	PC3	Ant 1	23.50				22.90	
NTN B255	PC3	Ant 4	24.50				23.40	

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

1. The device implements the power management for WLAN SAR compliance for different exposure conditions and user cases. In each exposure condition, the power index selection is determined by the user cases as tested in Section 14 of this report. Full details about the proprietary power management decision are illustrated in the operational description.
2. 4+3(3) represents the test in 2TX operation, while the SAR or power data is associated with antenna 3
3. 4+3(4) represents the test in 2TX operation, while the SAR or power data is associated with antenna 4

Burst Average Power (dBm)												
2.4GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
802.11b (SISO)	1	2412	22.50	22.50	17.00	17.00	12.00	12.00	22.50	22.50	16.50	16.50
	6	2437	22.50	22.50	17.00	17.00	12.00	12.00	22.50	22.50	16.50	16.50
	11	2462	22.50	22.50	17.00	17.00	12.00	12.00	22.50	22.50	16.50	16.50
	12	2467	22.50	22.50	17.00	17.00	12.00	12.00	22.50	22.50	16.50	16.50
	13	2472	17.50	17.50	17.00	17.00	12.00	12.00	17.50	17.50	16.50	16.50

Burst Average Power (dBm)												
2.4GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
802.11b (MIMO)	1	2412	22.50	22.50	17.00	17.00	12.00	12.00	22.50	22.50	16.50	16.50
	6	2437	22.50	22.50	17.00	17.00	12.00	12.00	22.50	22.50	16.50	16.50
	11	2462	22.50	22.50	17.00	17.00	12.00	12.00	22.50	22.50	16.50	16.50
	12	2467	21.50	21.50	17.00	17.00	12.00	12.00	21.50	21.50	16.50	16.50
	13	2472	17.50	17.50	17.00	17.00	12.00	12.00	17.50	17.50	16.50	16.50
802.11g (MIMO)	1	2412	19.50	19.50	17.00	17.00	12.00	12.00	19.50	19.50	16.50	16.50
	2	2417	22.00	22.00								
	6	2437	22.00	22.00	17.00	17.00	12.00	12.00	22.00	22.00	16.50	16.50
	10	2457	22.00	22.00								
	11	2462	18.50	18.50	17.00	17.00	12.00	12.00	18.50	18.50	16.50	16.50
	12	2467	16.50	16.50	16.50	16.50	12.00	12.00	16.50	16.50	16.50	16.50
802.11n HT20 (MIMO)	1	2412	18.00	18.00	17.00	17.00	12.00	12.00	18.00	18.00	16.50	16.50
	2	2417	21.00	21.00								
	6	2437	21.00	21.00	17.00	17.00	12.00	12.00	21.00	21.00	16.50	16.50
	10	2457	21.00	21.00								
	11	2462	16.50	16.50	16.50	16.50	12.00	12.00	16.50	16.50	16.50	16.50
	12	2467	15.50	15.50	15.50	15.50	12.00	12.00	15.50	15.50	15.50	15.50
802.11ac VHT20 (MIMO)	1	2412	18.00	18.00	17.00	17.00	12.00	12.00	18.00	18.00	16.50	16.50
	2	2417	21.00	21.00								
	6	2437	21.00	21.00	17.00	17.00	12.00	12.00	21.00	21.00	16.50	16.50
	10	2457	21.00	21.00								
	11	2462	16.50	16.50	16.50	16.50	12.00	12.00	16.50	16.50	16.50	16.50
	12	2467	15.50	15.50	15.50	15.50	12.00	12.00	15.50	15.50	15.50	15.50
802.11ax HE20 (MIMO)	1	2412	18.00	18.00	17.00	17.00	12.00	12.00	18.00	18.00	16.50	16.50
	2	2417	21.00	21.00								
	6	2437	21.00	21.00	17.00	17.00	12.00	12.00	21.00	21.00	16.50	16.50
	10	2457	21.00	21.00								
	11	2462	16.50	16.50	16.50	16.50	12.00	12.00	16.50	16.50	16.50	16.50
	12	2467	15.50	15.50	15.50	15.50	12.00	12.00	15.50	15.50	15.50	15.50
802.11be EHT20	1	2412	18.00	18.00	17.00	17.00	12.00	12.00	18.00	18.00	16.50	16.50
	2	2417	21.00	21.00								

(MIMO)	6	2437	21.00	21.00	17.00	17.00	12.00	12.00	21.00	21.00	16.50	16.50
	10	2457	21.00	21.00								
	11	2462	16.50	16.50	16.50	16.50	12.00	12.00	16.50	16.50	16.50	16.50
	12	2467	15.50	15.50	15.50	15.50	12.00	12.00	15.50	15.50	15.50	15.50
	13	2472	13.50	13.50	13.50	13.50	12.00	12.00	13.50	13.50	13.50	13.50

Burst Average Power (dBm)												
5.2GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
802.11a (MIMO)	36	5180	18.50	18.50	14.00	14.00	9.50	9.50	18.50	18.50	16.00	16.00
	40	5200	18.50	18.50	14.00	14.00	9.50	9.50	18.50	18.50	16.00	16.00
	44	5220	18.50	18.50	14.00	14.00	9.50	9.50	18.50	18.50	16.00	16.00
	48	5240	18.50	18.50	14.00	14.00	9.50	9.50	18.50	18.50	16.00	16.00
802.11n HT20 (MIMO)	36	5180	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	40	5200	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	44	5220	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	48	5240	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
802.11n HT40 (MIMO)	38	5190	16.50	16.50	14.00	14.00	9.50	9.50	16.50	16.50	16.00	16.00
	46	5230	20.00	20.00	14.00	14.00	9.50	9.50	20.00	20.00	16.00	16.00
802.11ac VHT20 (MIMO)	36	5180	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	40	5200	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	44	5220	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	48	5240	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
802.11ac VHT40 (MIMO)	38	5190	16.50	16.50	14.00	14.00	9.50	9.50	16.50	16.50	16.00	16.00
	46	5230	20.00	20.00	14.00	14.00	9.50	9.50	20.00	20.00	16.00	16.00
802.11ac VHT80 (MIMO)	42	5210	14.50	14.50	14.00	14.00	9.50	9.50	14.50	14.50	14.50	14.50
802.11ax HE20 (MIMO)	36	5180	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	40	5200	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	44	5220	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	48	5240	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
802.11ax HE40 (MIMO)	38	5190	16.50	16.50	14.00	14.00	9.50	9.50	16.50	16.50	16.00	16.00
	46	5230	20.00	20.00	14.00	14.00	9.50	9.50	20.00	20.00	16.00	16.00
802.11ax HE80 (MIMO)	42	5210	14.50	14.50	14.00	14.00	9.50	9.50	14.50	14.50	14.50	14.50
802.11be EHT20 (MIMO)	36	5180	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	40	5200	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	44	5220	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
	48	5240	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	16.00	16.00
802.11be EHT40 (MIMO)	38	5190	16.50	16.50	14.00	14.00	9.50	9.50	16.50	16.50	16.00	16.00
	46	5230	20.00	20.00	14.00	14.00	9.50	9.50	20.00	20.00	16.00	16.00
802.11be EHT80 (MIMO)	42	5210	14.50	14.50	14.00	14.00	9.50	9.50	14.50	14.50	14.50	14.50

5.3GHz Mode	Channel	Frequency (MHz)	Burst Average Power (dBm)									
			Index 0		Index 1		Index 2		Index 3		Index 4	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
802.11a (MIMO)	52	5260	18.50	18.50	14.00	14.00	9.50	9.50	18.50	18.50	18.00	18.00
	56	5280	18.50	18.50	14.00	14.00	9.50	9.50	18.50	18.50	18.00	18.00
	60	5300	18.50	18.50	14.00	14.00	9.50	9.50	18.50	18.50	18.00	18.00
	64	5320	17.50	17.50	14.00	14.00	9.50	9.50	17.50	17.50	17.50	17.50
802.11n HT20 (MIMO)	52	5260	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	56	5280	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	60	5300	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	64	5320	18.00	18.00	14.00	14.00	9.50	9.50	18.00	18.00	18.00	18.00
802.11n HT40 (MIMO)	54	5270	19.00	19.00	14.00	14.00	9.50	9.50	19.00	19.00	18.00	18.00
	62	5310	15.50	15.50	14.00	14.00	9.50	9.50	15.50	15.50	15.50	15.50
802.11ac VHT20 (MIMO)	52	5260	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	56	5280	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	60	5300	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	64	5320	18.00	18.00	14.00	14.00	9.50	9.50	18.00	18.00	18.00	18.00
802.11ac VHT40 (MIMO)	54	5270	19.00	19.00	14.00	14.00	9.50	9.50	19.00	19.00	18.00	18.00
	62	5310	15.50	15.50	14.00	14.00	9.50	9.50	15.50	15.50	15.50	15.50
802.11ac VHT80 (MIMO)	58	5290	15.00	15.00	14.00	14.00	9.50	9.50	15.00	15.00	15.00	15.00
802.11ac VHT160 (MIMO)	50	5250	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
802.11ax HE20 (MIMO)	52	5260	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	56	5280	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	60	5300	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	64	5320	18.00	18.00	14.00	14.00	9.50	9.50	18.00	18.00	18.00	18.00
802.11ax HE40 (MIMO)	54	5270	19.00	19.00	14.00	14.00	9.50	9.50	19.00	19.00	18.00	18.00
	62	5310	15.50	15.50	14.00	14.00	9.50	9.50	15.50	15.50	15.50	15.50
802.11ax HE80 (MIMO)	58	5290	15.00	15.00	14.00	14.00	9.50	9.50	15.00	15.00	15.00	15.00
802.11ax HE160 (MIMO)	50	5250	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
802.11be EHT20 (MIMO)	52	5260	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	56	5280	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	60	5300	19.50	19.50	14.00	14.00	9.50	9.50	19.50	19.50	18.00	18.00
	64	5320	18.00	18.00	14.00	14.00	9.50	9.50	18.00	18.00	18.00	18.00
802.11be EHT40 (MIMO)	54	5270	19.00	19.00	14.00	14.00	9.50	9.50	19.00	19.00	18.00	18.00
	62	5310	15.50	15.50	14.00	14.00	9.50	9.50	15.50	15.50	15.50	15.50
802.11be EHT80 (MIMO)	58	5290	15.00	15.00	14.00	14.00	9.50	9.50	15.00	15.00	15.00	15.00
802.11be EHT160 (MIMO)	50	5250	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00



Burst Average Power (dBm)												
5.5GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
802.11a (MIMO)	100	5500	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	116	5580	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	124	5620	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	132	5660	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	144	5720	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11n HT20 (MIMO)	100	5500	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	116	5580	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	124	5620	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	132	5660	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	144	5720	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11n HT40 (MIMO)	102	5510	15.00	15.00	13.50	13.50	9.50	9.50	15.00	15.00	15.00	15.00
	110	5550	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	126	5630	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	134	5670	18.00	18.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	142	5710	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11ac VHT20 (MIMO)	100	5500	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	116	5580	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	124	5620	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	132	5660	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	144	5720	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11ac VHT40 (MIMO)	102	5510	15.00	15.00	13.50	13.50	9.50	9.50	15.00	15.00	15.00	15.00
	110	5550	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	126	5630	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	134	5670	18.00	18.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	142	5710	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11ac VHT80 (MIMO)	106	5530	14.00	14.00	13.50	13.50	9.50	9.50	14.00	14.00	14.00	14.00
	122	5610	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	138	5690	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11ac VHT160 (MIMO)	114	5570	12.00	12.00	12.00	12.00	9.50	9.50	12.00	12.00	12.00	12.00
802.11ax HE20 (MIMO)	100	5500	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	116	5580	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	124	5620	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	132	5660	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	144	5720	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11ax HE40 (MIMO)	102	5510	15.00	15.00	13.50	13.50	9.50	9.50	15.00	15.00	15.00	15.00
	110	5550	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	126	5630	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	134	5670	18.00	18.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	142	5710	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11ax HE80 (MIMO)	106	5530	14.00	14.00	13.50	13.50	9.50	9.50	14.00	14.00	14.00	14.00
	122	5610	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	138	5690	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11ax HE160 (MIMO)	114	5570	12.00	12.00	12.00	12.00	9.50	9.50	12.00	12.00	12.00	12.00
802.11be EHT20 (MIMO)	100	5500	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	116	5580	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	124	5620	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	132	5660	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	144	5720	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11be EHT40	102	5510	15.00	15.00	13.50	13.50	9.50	9.50	15.00	15.00	15.00	15.00
	110	5550	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00

(MIMO)	126	5630	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	134	5670	18.00	18.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	142	5710	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11be EHT80 (MIMO)	106	5530	14.00	14.00	13.50	13.50	9.50	9.50	14.00	14.00	14.00	14.00
	122	5610	19.00	19.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
	138	5690	20.00	20.00	13.50	13.50	9.50	9.50	18.00	18.00	17.00	17.00
802.11be EHT160 (MIMO)	114	5570	12.00	12.00	12.00	12.00	9.50	9.50	12.00	12.00	12.00	12.00

Burst Average Power (dBm)												
5.8GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
802.11a (MIMO)	149	5745	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
	157	5785	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
	165	5825	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
802.11n HT20 (MIMO)	149	5745	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
	157	5785	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
	165	5825	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
802.11n HT40 (MIMO)	151	5755	20.00	20.00	14.00	14.00	10.50	10.50	20.00	20.00	14.00	14.00
	159	5795	20.00	20.00	14.00	14.00	10.50	10.50	20.00	20.00	14.00	14.00
802.11ac VHT20 (MIMO)	149	5745	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
	157	5785	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
	165	5825	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
802.11ac VHT40 (MIMO)	151	5755	20.00	20.00	14.00	14.00	10.50	10.50	20.00	20.00	14.00	14.00
	159	5795	20.00	20.00	14.00	14.00	10.50	10.50	20.00	20.00	14.00	14.00
802.11ac VHT80 (MIMO)	155	5775	19.50	19.50	14.00	14.00	10.50	10.50	19.50	19.50	14.00	14.00
802.11ax HE20 (MIMO)	149	5745	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
	157	5785	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
	165	5825	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
802.11ax HE40 (MIMO)	151	5755	20.00	20.00	14.00	14.00	10.50	10.50	20.00	20.00	14.00	14.00
	159	5795	20.00	20.00	14.00	14.00	10.50	10.50	20.00	20.00	14.00	14.00
802.11ax HE80 (MIMO)	155	5775	19.50	19.50	14.00	14.00	10.50	10.50	19.50	19.50	14.00	14.00
802.11be EHT20 (MIMO)	149	5745	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
	157	5785	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
	165	5825	21.00	21.00	14.00	14.00	10.50	10.50	20.50	20.50	14.00	14.00
802.11be EHT40 (MIMO)	151	5755	20.00	20.00	14.00	14.00	10.50	10.50	20.00	20.00	14.00	14.00
	159	5795	20.00	20.00	14.00	14.00	10.50	10.50	20.00	20.00	14.00	14.00
802.11be EHT80 (MIMO)	155	5775	19.50	19.50	14.00	14.00	10.50	10.50	19.50	19.50	14.00	14.00

Burst Average Power (dBm)												
5.9GHz Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
802.11a (MIMO)	169	5845	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	173	5865	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	177	5885	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11n HT20 (MIMO)	169	5845	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	173	5865	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	177	5885	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11n HT40 (MIMO)	167	5835	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	175	5875	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11ac VHT20 (MIMO)	169	5845	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	173	5865	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	177	5885	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11ac VHT40 (MIMO)	167	5835	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	175	5875	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11ac VHT80 (MIMO)	171	5855	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11ac VHT160 (MIMO)	163	5815	16.50	16.50	14.50	14.50	9.50	9.50	16.50	16.50	16.50	16.50
802.11ax HE20 (MIMO)	169	5845	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	173	5865	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	177	5885	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11ax HE40 (MIMO)	167	5835	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	175	5875	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11ax HE80 (MIMO)	171	5855	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11ax HE160 (MIMO)	163	5815	16.50	16.50	14.50	14.50	9.50	9.50	16.50	16.50	16.50	16.50
802.11be EHT20 (MIMO)	169	5845	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	173	5865	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	177	5885	21.00	21.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11be EHT40 (MIMO)	167	5835	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
	175	5875	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11be EHT80 (MIMO)	171	5855	20.00	20.00	14.50	14.50	9.50	9.50	19.50	19.50	18.00	18.00
802.11be EHT160 (MIMO)	163	5815	16.50	16.50	14.50	14.50	9.50	9.50	16.50	16.50	16.50	16.50

Burst Average Power (dBm)												
6GHz(SP) Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
802.11a (MIMO)	1	5955	21.00	21.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	57	6235	21.00	21.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	173	6815	21.00	21.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11ax HE20 (MIMO)	1	5955	21.00	21.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	57	6235	21.00	21.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	173	6815	21.00	21.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11ax HE40 (MIMO)	3	5965	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	59	6245	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	171	6805	20.00	20.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11ax HE80 (MIMO)	7	5985	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	71	6305	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	167	6785	20.00	20.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11ax HE160 (MIMO)	15	6025	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	47	6185	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	143	6665	20.00	20.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11be EHT20 (MIMO)	1	5955	21.00	21.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	57	6235	21.00	21.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	173	6815	21.00	21.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11be EHT40 (MIMO)	3	5965	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	59	6245	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	171	6805	20.00	20.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11be EHT80 (MIMO)	7	5985	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	71	6305	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	167	6785	20.00	20.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11be EHT160 (MIMO)	15	6025	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	47	6185	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	143	6665	20.00	20.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00

Burst Average Power (dBm)												
6GHz(LPI) Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2		Index 3		Index 4	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
802.11a (MIMO)	1	5955	14.50	14.50	14.50	14.50	11.50	11.50	14.50	14.50	14.50	14.50
	57	6235	14.50	14.50	14.50	14.50	11.50	11.50	14.50	14.50	14.50	14.50
	113	6515	15.00	15.00	15.00	15.00	10.50	10.50	15.00	15.00	15.00	15.00
	173	6815	15.50	15.50	15.50	15.50	12.00	12.00	15.50	15.50	15.50	15.50
802.11ax HE20 (MIMO)	1	5955	15.00	15.00	14.50	14.50	11.50	11.50	15.00	15.00	15.00	15.00
	57	6235	15.00	15.00	14.50	14.50	11.50	11.50	15.00	15.00	15.00	15.00
	113	6515	15.50	15.50	15.00	15.00	10.50	10.50	15.00	15.00	15.00	15.00
	173	6815	16.50	16.50	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11ax HE40 (MIMO)	3	5965	18.00	18.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	59	6245	18.00	18.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	107	6485	18.50	18.50	15.00	15.00	10.50	10.50	15.00	15.00	15.00	15.00
	171	6805	19.50	19.50	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
	227	7085	17.00	17.00	15.00	15.00	13.50	13.50	15.50	15.50	15.50	15.50
802.11ax HE80 (MIMO)	7	5985	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	71	6305	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	119	6545	20.00	20.00	15.00	15.00	10.50	10.50	15.00	15.00	15.00	15.00
	167	6785	20.00	20.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
	215	7025	20.00	20.00	15.00	15.00	13.50	13.50	15.50	15.50	15.50	15.50
802.11ax HE160 (MIMO)	15	6025	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	47	6185	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	111	6505	20.00	20.00	15.00	15.00	10.50	10.50	15.00	15.00	15.00	15.00



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	143	6665	20.00	20.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
	207	6985	18.50	18.50	15.00	15.00	13.50	13.50	15.50	15.50	15.50	15.50
802.11be EHT20 (MIMO)	1	5955	15.00	15.00	14.50	14.50	11.50	11.50	15.00	15.00	15.00	15.00
	57	6235	15.00	15.00	14.50	14.50	11.50	11.50	15.00	15.00	15.00	15.00
	113	6515	15.50	15.50	15.00	15.00	10.50	10.50	15.00	15.00	15.00	15.00
	173	6815	16.50	16.50	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11be EHT40 (MIMO)	3	5965	18.00	18.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	59	6245	18.00	18.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	107	6485	18.50	18.50	15.00	15.00	10.50	10.50	15.00	15.00	15.00	15.00
	171	6805	19.50	19.50	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
802.11be EHT80 (MIMO)	227	7085	17.00	17.00	15.00	15.00	13.50	13.50	15.50	15.50	15.50	15.50
	7	5985	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	71	6305	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	119	6545	20.00	20.00	15.00	15.00	10.50	10.50	15.00	15.00	15.00	15.00
802.11be EHT160 (MIMO)	167	6785	20.00	20.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
	215	7025	20.00	20.00	15.00	15.00	13.50	13.50	15.50	15.50	15.50	15.50
	15	6025	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
	47	6185	20.00	20.00	14.50	14.50	11.50	11.50	15.50	15.50	15.50	15.50
802.11be EHT160 (MIMO)	111	6505	20.00	20.00	15.00	15.00	10.50	10.50	15.00	15.00	15.00	15.00
	143	6665	20.00	20.00	15.50	15.50	12.00	12.00	16.00	16.00	16.00	16.00
	207	6985	18.50	18.50	15.00	15.00	13.50	13.50	15.50	15.50	15.50	15.50

Burst Average Power (dBm)						
6GHz(VLP) Mode	Channel	Frequency (MHz)	Index 0		Index 4	
			Ant 4	Ant 3	Ant 4	Ant 3
802.11a (MIMO)	1	5955	11.00	11.00	11.00	11.00
	57	6235	11.00	11.00	11.00	11.00
	113	6515	11.00	11.00	11.00	11.00
	173	6815	12.00	12.00	12.00	12.00
802.11ax HE20 (MIMO)	1	5955	11.50	11.50	11.50	11.50
	57	6235	11.50	11.50	11.50	11.50
	113	6515	11.50	11.50	11.50	11.50
	173	6815	12.50	12.50	12.50	12.50
802.11ax HE40 (MIMO)	3	5965	14.50	14.50	14.50	14.50
	59	6245	14.50	14.50	14.50	14.50
	107	6485	14.50	14.50	14.50	14.50
	171	6805	15.00	15.00	15.00	15.00
802.11ax HE80 (MIMO)	227	7085	13.00	13.00	13.00	13.00
	7	5985	17.00	17.00	15.50	15.50
	71	6305	17.00	17.00	15.50	15.50
	119	6545	17.50	17.50	15.00	15.00
802.11ax HE160 (MIMO)	167	6785	18.50	18.50	16.00	16.00
	215	7025	16.00	16.00	15.50	15.50
	15	6025	19.00	19.00	15.50	15.50
	47	6185	20.00	20.00	15.50	15.50
802.11ax HE160 (MIMO)	111	6505	20.00	20.00	15.00	15.00
	143	6665	20.00	20.00	16.00	16.00
	207	6985	18.00	18.00	15.50	15.50
802.11be EHT20 (MIMO)	1	5955	11.50	11.50	11.50	11.50
	57	6235	11.50	11.50	11.50	11.50
	113	6515	11.50	11.50	11.50	11.50
	173	6815	12.50	12.50	12.50	12.50
802.11be EHT40 (MIMO)	3	5965	14.50	14.50	14.50	14.50
	59	6245	14.50	14.50	14.50	14.50

	107	6485	14.50	14.50	14.50	14.50
	171	6805	15.00	15.00	15.00	15.00
	227	7085	13.00	13.00	13.00	13.00
802.11be EHT80 (MIMO)	7	5985	17.00	17.00	15.50	15.50
	71	6305	17.00	17.00	15.50	15.50
	119	6545	17.50	17.50	15.00	15.00
	167	6785	18.50	18.50	16.00	16.00
	215	7025	16.00	16.00	15.50	15.50
802.11be EHT160 (MIMO)	15	6025	19.00	19.00	15.50	15.50
	47	6185	20.00	20.00	15.50	15.50
	111	6505	20.00	20.00	15.00	15.00
	143	6665	20.00	20.00	16.00	16.00
	207	6985	18.00	18.00	15.50	15.50

<Bluetooth/Thread/UWB Maximum Power>

General Note:

- The device implements the power management for Bluetooth/Thread SAR compliance for different exposure conditions and user cases. In each exposure condition, the power index selection is determined by the user cases as tested in Section 14 of this report. Full details about the proprietary power management decision are illustrated in the operational description.

<BT SISO>

Burst Average Power (dBm)								
Bluetooth Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
BR / EDR 1Mbps	0	2402	21.00	21.00	13.50	13.50	17.00	20.00
	39	2441	21.00	21.00	13.50	13.50	17.00	20.00
	78	2480	21.00	21.00	13.50	13.50	17.00	20.00
BR / EDR 2Mbps	0	2402	18.50	18.50	13.50	13.50	17.00	18.50
	39	2441	18.50	18.50	13.50	13.50	17.00	18.50
	78	2480	18.50	18.50	13.50	13.50	17.00	18.50
BR / EDR 3Mbps	0	2402	18.50	18.50	13.50	13.50	17.00	18.50
	39	2441	18.50	18.50	13.50	13.50	17.00	18.50
	78	2480	18.50	18.50	13.50	13.50	17.00	18.50
LE 1Mbps	0	2402	20.00	20.00	13.50	13.50	17.00	20.00
	19	2440	20.00	20.00	13.50	13.50	17.00	20.00
	39	2480	20.00	20.00	13.50	13.50	17.00	20.00
LE 2Mbps	1	2404	20.00	20.00	13.50	13.50	17.00	20.00
	19	2440	20.00	20.00	13.50	13.50	17.00	20.00
	38	2478	20.00	20.00	13.50	13.50	17.00	20.00
BLE CS GFSK 1Mbps	2	2404	19.00	19.00	13.50	13.50	17.00	19.00
	38	2440	19.00	19.00	13.50	13.50	17.00	19.00
	76	2478	19.00	19.00	13.50	13.50	17.00	19.00
BLE CS GFSK 2Mbps	2	2404	19.00	19.00	13.50	13.50	17.00	19.00
	38	2440	19.00	19.00	13.50	13.50	17.00	19.00
	76	2478	19.00	19.00	13.50	13.50	17.00	19.00
BLE CS ASK 1Mbps	2	2404	19.00	19.00	13.50	13.50	17.00	19.00
	38	2440	19.00	19.00	13.50	13.50	17.00	19.00
	76	2478	19.00	19.00	13.50	13.50	17.00	19.00
BLE CS ASK 2Mbps	2	2404	19.00	19.00	13.50	13.50	17.00	19.00
	38	2440	19.00	19.00	13.50	13.50	17.00	19.00
	76	2478	19.00	19.00	13.50	13.50	17.00	19.00

<BT MIMO>

Burst Average Power (dBm)								
Bluetooth Mode	Channel	Frequency (MHz)	Index 0		Index 1		Index 2	
			Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4
BR / EDR 1Mbps	0	2402	21.00	21.00	12.50	12.50	17.00	17.00
	39	2441	21.00	21.00	12.50	12.50	17.00	17.00
	78	2480	21.00	21.00	12.50	12.50	17.00	17.00
BR / EDR 2Mbps	0	2402	18.50	18.50	12.50	12.50	17.00	17.00
	39	2441	18.50	18.50	12.50	12.50	17.00	17.00
	78	2480	18.50	18.50	12.50	12.50	17.00	17.00
BR / EDR 3Mbps	0	2402	18.50	18.50	12.50	12.50	17.00	17.00
	39	2441	18.50	18.50	12.50	12.50	17.00	17.00
	78	2480	18.50	18.50	12.50	12.50	17.00	17.00
LE 1Mbps	0	2402	20.00	20.00	12.50	12.50	17.00	17.00
	19	2440	20.00	20.00	12.50	12.50	17.00	17.00
	39	2480	20.00	20.00	12.50	12.50	17.00	17.00
LE 2Mbps	1	2404	20.00	20.00	12.50	12.50	17.00	17.00
	19	2440	20.00	20.00	12.50	12.50	17.00	17.00
	38	2478	20.00	20.00	12.50	12.50	17.00	17.00

Burst Average Power (dBm)					
Thread	Channel	Frequency (MHz)	Index 0	Index 1	Index 2
			Ant 3	Ant 3	Ant 3
250K	11	2405	22.00	11.00	16.00
	18	2440	22.00	11.00	16.00
	25	2475	22.00	11.00	16.00
	26	2480	20.50	11.00	16.00

Maximum Tune up Power (dBm)			
UWB	Ant 2 (CH05)	Ant 1 (CH09)	Ant 2(CH09)
	-10.3	-16.8	-11.8

2.3 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																													
FCC ID	A4RG4QUR																																																																												
Equipment Name	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 MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3																																																																													
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																																																																						
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	The device has several different power modes for each exposure conditions SAR compliance; power selection is determined by the device’s positioning and usage scenarios. Detail refer to operational description.																																																																												
LTE Carrier Aggregation Combinations	The UL CA include in section 12																																																																												
LTE Carrier Aggregation Additional Information	Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.																																																																												

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

LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5		
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)	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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
L	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
H	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 48												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
L	55810	3607	55815	3607.5	55820	3608	55830	3609				
M	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690				
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133297	680.5	133297	680.5	133297	680.5	133297	680.5				
H	133447	695.5	133422	693	133397	690.5	133372	688				



2.4 General 5G NR SAR Test and Reporting Considerations

5G NR Information														
FCC ID	A4RG4QUR													
Equipment Name	Phone													
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz													
	5G NR n5: 824 MHz ~ 849 MHz													
	5G NR n7: 2500 MHz ~ 2570 MHz													
	5G NR n12: 699 MHz ~ 716 MHz													
	5G NR n14 : 788 MHz ~ 798 MHz													
	5G NR n25: 1850 MHz ~ 1915 MHz													
	5G NR n26: 814 MHz ~ 849 MHz													
	5G NR n30: 2305 MHz ~ 2315 MHz													
	5G NR 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, 3450MHz ~ 3550MHz													
5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz														
Channel Bandwidth	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz													
	5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz													
	5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz													
	5G NR n12: 5MHz, 10MHz, 15MHz													
	5G NR n14: 5MHz, 10MHz													
	5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz 30MHz, 35MHz, 40MHz													
	5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz													
	5G NR n30: 5MHz, 10MHz													
	5G NR n38: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz													
	5G NR n41: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz													
	5G NR n48: 10MHz, 15MHz, 20MH, 30MHz, 40MHz													
	5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz,30MHz, 35MHz, 40MHz													
	5G NR n70: 5MHz, 10MHz, 15MHz													
	5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz													
	5G NR n77/n78: 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz													
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 Band 2	FR1 n2/5/7/12/25/30/38/41/48/66/71/77/78													
LTE Anchor Band 4	FR1 n2/38/41/78													
LTE Anchor Band 5	FR1 n2/7/30/38/41/66/77/78													
LTE Anchor Band 7	FR1 n2/5/12/66/71/77/78													
LTE Anchor Band 12	FR1 n2/7/25/30/38/41/66/77/78													
LTE Anchor Band 13	FR1 n2/7/25/66/77/78													
LTE Anchor Band 14	FR1 n2/30/66/77													
LTE Anchor Band 25	FR1 n41/66/77/78													
LTE Anchor Band 26	FR1 n25/41/77													
LTE Anchor Band 30	FR1 n2/5/66/77													
LTE Anchor Band 38	FR1 n78													
LTE Anchor Band 41	FR1 n41/77/78													
LTE Anchor Band 48	FR1 n2/5/25/48/66/77													
LTE Anchor Band 66	FR1 n2/5/7/12/25/30/38/41/48/66/71/77/78													
LTE Anchor Band 71	FR1 n2/7/38/41/66/78													
NR Band 2														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870
M	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895	378000	1890
NR Band 5														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	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						
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5						
H	169300	846.5	168800	844	168300	841.5	167800	839						



NR Band 7																						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)						
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520	505000	2525						
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535						
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	509000	2545						
NR Band 12																						
	Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz													
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)											
L	140300		701.5		140800		704		141300		706.5											
M	141500		707.5		141500		707.5		141500		707.5											
H	142700		713.5		142200		711		141700		708.5											
NR Band 14																						
	Bandwidth 5MHz						Bandwidth 10MHz															
	Ch. #			Freq. (MHz)			Ch. #			Freq. (MHz)												
L	158100			790.5			158600			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)			Ch. #			Freq. (MHz)						
L	461500			2307.5			462000			462000			2310									
M	462000			2310																		
H	462500			2312.5																		
NR Band 38																						
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz											
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	515004	2575.02	515502	2577.51	516000	2580	516504	2582.52	517002	2585.01	518004		2590.02									
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000		2595									
H	522996	2614.98	522498	2612.49	522000	2610	521496	2607.48	520998	2604.99	519996		2599.98									
NR Band 41																						
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640
NR Band 48																						
	Bandwidth10MHz			Bandwidth 15MHz			Bandwidth20MHz			Bandwidth 30MHz			Bandwidth 40MHz									
	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)				
L	637000		3555	637168		3557.52	637334		3560.01	637000		3555	638000		3570	637000		3555				
M	641666		3624.99	641666		3624.99	641666		3624.99	641666		3624.99	641666		3624.99	641666		3624.99				
H	646332		3694.98	646166		3692.49	646000		3690	646332		3694.98	645332		3679.98	645332		3679.98				

NR Band 66																								
	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	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000	1730								
M	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								
NR Band 70																								
	Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz															
	Ch. #		Freq. (MHz)		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											
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)									
L	133100		665.5		133600		668		13410		670.5		134600		673									
M	136100		680.5		136100		680.5		136100		680.5		136100		680.5									
H	139100		695.5		138600		693		13810		690.5		137600		688									
NR Band 77_Part 270																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930
NR Band 78_Part 270																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750		
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.50	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		
NR Band 77/78_Part 27Q																								
	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	633332	3499.98
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		
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		

3. TAS feature for RF Exposure compliance

The FCC RF exposure limit is based on time-averaged RF exposure. Both SAR and PD regulatory specifications are defined over certain measurement duration allowing for time-averaging. The Samsung S.LSI proprietary Spatial Time Average SAR (S-TAS) with Non-Terrestrial Networks algorithm has been designed to meet the compliance limits over the required duration, while still allowing dynamic control of transmit power for meeting system performance. Under the control of TAS algorithm, the device can transmit at high power up to Pmax for certain interval, but the average power will be maintained not exceeding the pre-defined averaged level (Plimit), and thus maintain the time-averaged RF exposure compliance

The following table shows Plimit and maximum tune up output power Pmax, for all exposure and transmit transmit conditions (output power index).

Pmax	Maximum Tx power that can be transmitted physically from RFIC for a given RAT
SAR_FCC_limit	SAR limit specified by FCC 1.6 W/kg averaged over 1-gram, for head and body exposure, and 4 W/kg averaged over 10-gram, for extremity exposure
PD_FCC_limit	PD limit specified by FCC, 10 W/m ² averaged over 4 cm ²
Plimit	The time-averaged RF power that corresponds to SAR_target or PD_target.

**3.1 SAR Characterization – Power Table****General Note:**

1. The P_{limit} values correspond to SAR_{design target}.
2. GSM don't support time average feature of dynamic power varying, the power will be fixed at the static reduce power level at different exposure conditions for RF exposure compliance. For the GSM P_{limit} power levels in the table correspond to the burst average power levels which don't account for TX duty cycle.
3. UMTS, LTE, FR1 and NTN: P_{limit} power levels in the table correspond to the time-averaged power levels which accounts for TX duty cycle.
4. Maximum target power, P_{max}, is configured in NV settings in EUT to limit maximum transmitting power. This power is converted into peak power in NV settings for TDD schemes.

<P_{limit} for supported technologies and bands (P_{limit} corresponding to SAR design target)>

Wireless technology (No Accounting duty cycle)	Mode	Duty Cycle %	Antenna	Maximum Power Condition	Head		Hotspot	Body-worn/Extremity		P Max Burst average power (dBm)
					Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous	
				Index 1	Index 2	Index 3	Index 4	Index 5	Index 6	
				P limit						
Burst average power (dBm)										
GSM850	GSM/GPRS 1TX	12.50%	Ant0	32.50	34.20	33.00	32.80	34.10	33.40	32.50
	GPRS 2TX	25.00%		31.50	31.20	30.00	29.80	31.10	30.40	31.50
	GPRS 3TX	37.50%		30.50	29.40	28.20	28.00	29.30	28.60	30.50
	GPRS 4TX	50.00%		29.50	28.20	27.00	26.80	28.10	27.40	29.50
	EDGE 1TX	12.50%		26.50	34.20	33.00	32.80	34.10	33.40	26.50
	EDGE 2TX	25.00%		25.50	31.20	30.00	29.80	31.10	30.40	25.50
	EDGE 3TX	37.50%		24.50	29.40	28.20	28.00	29.30	28.60	24.50
	EDGE 4TX	50.00%		23.50	28.20	27.00	26.80	28.10	27.40	23.50
	GSM850	GSM/GPRS 1TX		12.50%	Ant1	32.30	31.30	30.10	35.60	36.30
GPRS 2TX		25.00%	31.30	28.30		27.10	32.60	33.30	32.60	31.30
GPRS 3TX		37.50%	30.30	26.50		25.30	30.80	31.50	30.80	30.30
GPRS 4TX		50.00%	29.30	25.30		24.10	29.60	30.30	29.60	29.30
EDGE 1TX		12.50%	26.30	31.30		30.10	35.60	36.30	35.60	26.30
EDGE 2TX		25.00%	25.30	28.30		27.10	32.60	33.30	32.60	25.30
EDGE 3TX		37.50%	24.30	26.50		25.30	30.80	31.50	30.80	24.30
EDGE 4TX		50.00%	23.30	25.30		24.10	29.60	30.30	29.60	23.30
GSM1900		GSM/GPRS 1TX	12.50%	Ant2		29.50	36.00	35.30	29.50	30.30
	GPRS 2TX	25.00%	28.00		33.00	32.30	26.50	27.30	26.60	28.00
	GPRS 3TX	37.50%	27.50		31.20	30.50	24.70	25.50	24.80	27.50
	GPRS 4TX	50.00%	26.50		30.00	29.30	23.50	24.30	23.60	26.50
	EDGE 1TX	12.50%	25.50		36.00	35.30	29.50	30.30	29.60	25.50
	EDGE 2TX	25.00%	24.50		33.00	32.30	26.50	27.30	26.60	24.50
	EDGE 3TX	37.50%	23.50		31.20	30.50	24.70	25.50	24.80	23.50
	EDGE 4TX	50.00%	22.50		30.00	29.30	23.50	24.30	23.60	22.50
	GSM1900	GSM/GPRS 1TX	12.50%		Ant0	29.10	44.20	43.50	26.30	27.70
GPRS 2TX		25.00%	27.60	41.20		40.50	23.30	24.70	24.00	27.60
GPRS 3TX		37.50%	27.10	39.40		38.70	21.50	22.90	22.20	27.10
GPRS 4TX		50.00%	26.10	38.20		37.50	20.30	21.70	21.00	26.10
EDGE 1TX		12.50%	25.10	44.20		43.50	26.30	27.70	27.00	25.10
EDGE 2TX		25.00%	24.10	41.20		40.50	23.30	24.70	24.00	24.10
EDGE 3TX		37.50%	23.10	39.40		38.70	21.50	22.90	22.20	23.10
EDGE 4TX		50.00%	22.10	38.20		37.50	20.30	21.70	21.00	22.10



FCC SAR TEST REPORT

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Wireless technology (Accounting duty cycle)	Mode	Duty Cycle %	Antenna	Maximum Power Condition	Head		Hotspot	Body-worn/Extremity		P Max Time-average power (dBm)	
					Standalone	Simultaneous	Simultaneous	Standalone	Simultaneous		
				Index 1	Index 2	Index 3	Index 4	Index 5	Index 6		
				P limit							
				Time-average power (dBm)							
WCDMA B2	R99	100.00%	Ant2	24.00	25.50	24.80	20.80	21.50	20.80	24.00	
WCDMA B2	R99	100.00%	Ant0	23.60	35.70	35.00	16.80	19.90	19.20	23.60	
WCDMA B4	R99	100.00%	Ant2	24.00	25.60	24.90	20.80	21.50	20.80	24.00	
WCDMA B4	R99	100.00%	Ant0	23.60	34.00	33.30	18.00	20.20	19.50	23.60	
WCDMA B5	R99	100.00%	Ant0	24.30	27.80	27.10	23.70	25.60	24.90	24.30	
WCDMA B5	R99	100.00%	Ant1	24.00	20.90	19.70	25.70	26.40	25.70	24.00	
LTE B7	PC3	100.00%	Ant2	24.10	23.60	22.40	19.00	19.70	19.00	24.10	
LTE B7	PC3	100.00%	Ant0	23.80	31.50	30.80	18.00	20.30	19.60	23.80	
LTE B12/B17	PC3	100.00%	Ant0	24.30	28.90	28.20	25.30	26.00	25.30	24.30	
LTE B12/B17	PC3	100.00%	Ant1	24.00	22.30	21.40	27.20	27.90	27.20	24.00	
LTE B13	PC3	100.00%	Ant0	24.30	27.80	27.10	23.50	26.00	25.30	24.30	
LTE B13	PC3	100.00%	Ant1	24.00	21.50	20.30	27.00	27.70	27.00	24.00	
LTE B14	PC3	100.00%	Ant0	24.30	28.20	27.50	24.00	26.30	25.60	24.30	
LTE B14	PC3	100.00%	Ant1	24.00	21.70	20.50	26.40	27.10	26.40	24.00	
LTE B25/B2	PC3	100.00%	Ant2	24.00	25.90	25.20	20.30	21.00	20.30	24.00	
LTE B25/B2	PC3	100.00%	Ant0	23.60	35.40	34.70	16.80	19.70	19.00	23.60	
LTE B25/B2	PC3	100.00%	Ant1	24.00	15.80	15.10	21.00	21.70	21.00	24.00	
LTE B25/B2	PC3	100.00%	Ant5	23.70	17.30	16.10	21.40	22.90	22.20	23.70	
LTE B26/B5	PC3	100.00%	Ant0	24.30	28.10	27.40	23.70	25.00	24.30	24.30	
LTE B26/B5	PC3	100.00%	Ant1	24.00	21.40	20.20	25.70	26.40	25.70	24.00	
LTE B30	PC3	100.00%	Ant2	21.60	21.60	20.90	19.60	20.30	19.60	21.60	
LTE B30	PC3	100.00%	Ant0	20.60	34.80	34.10	18.40	19.90	19.20	20.60	
LTE B41/B38	PC3	63.30%	Ant2	22.10	22.40	21.20	20.60	21.30	20.60	22.10	
LTE B41/B38	PC2	43.30%	Ant2	22.40	22.40	21.20	20.60	21.30	20.60	22.40	
LTE B41/B38	PC3	63.30%	Ant0	21.60	30.20	29.50	18.10	20.80	20.10	21.60	
LTE B41/B38	PC2	43.30%	Ant0	21.90	30.20	29.50	18.10	20.80	20.10	21.90	
LTE B48	PC3	63.30%	Ant6	17.80	28.10	27.40	19.20	19.90	19.20	17.80	
LTE B48	PC3	63.30%	Ant7	17.80	28.00	27.30	19.60	20.30	19.60	17.80	
LTE B66/B4	PC3	100.00%	Ant2	24.00	26.60	25.90	20.70	21.40	20.70	24.00	
LTE B66/B4	PC3	100.00%	Ant0	23.60	34.40	33.70	18.30	19.80	19.10	23.60	
LTE B66/B4	PC3	100.00%	Ant1	24.00	16.60	15.80	22.00	22.70	22.00	24.00	
LTE B66/B4	PC3	100.00%	Ant5	23.70	16.10	14.90	21.20	22.70	22.00	23.70	
LTE B71	PC3	100.00%	Ant0	24.30	29.30	28.60	26.50	27.20	26.50	24.30	
LTE B71	PC3	100.00%	Ant1	24.00	23.30	22.20	27.50	28.20	27.50	24.00	
FR1 n7	PC3	100.00%	Ant2	24.10	22.50	21.30	19.20	19.90	19.20	24.10	
FR1 n7	PC3	100.00%	Ant0	23.80	30.50	29.80	17.00	20.00	19.30	23.80	
FR1 n12	PC3	100.00%	Ant0	24.30	28.70	28.00	25.80	26.50	25.80	24.30	
FR1 n12	PC3	100.00%	Ant1	24.00	22.10	21.10	27.40	28.10	27.40	24.00	
FR1 n14	PC3	100.00%	Ant0	24.30	28.10	27.40	25.90	26.70	26.00	24.30	
FR1 n14	PC3	100.00%	Ant1	24.00	21.60	20.70	26.50	27.20	26.50	24.00	
FR1 n25/n2	PC3	100.00%	Ant2	24.00	25.50	24.80	20.10	20.80	20.10	24.00	
FR1 n25/n2	PC3	100.00%	Ant0	23.60	36.70	36.00	17.20	19.50	18.80	23.60	
FR1 n25/n2	PC3	100.00%	Ant1	24.00	15.60	14.90	20.60	21.30	20.60	24.00	
FR1 n25/n2	PC3	100.00%	Ant5	23.70	17.30	16.10	20.90	22.40	21.70	23.70	
FR1 n26/n5	PC3	100.00%	Ant0	24.30	27.50	26.80	25.10	25.90	25.20	24.30	
FR1 n26/n5	PC3	100.00%	Ant1	24.00	20.90	19.70	26.40	27.10	26.40	24.00	
FR1 n30	PC3	100.00%	Ant2	21.60	24.60	23.90	19.60	20.30	19.60	21.60	
FR1 n30	PC3	100.00%	Ant0	20.30	34.80	34.10	18.70	20.20	19.50	20.30	
FR1 n41/n38	PC3	100.00%	Ant2	24.10	22.60	21.40	20.60	21.30	20.60	24.10	
FR1 n41	PC2	50.00%	Ant2	23.00	22.60	21.40	20.60	21.30	20.60	23.00	
FR1 n41	PC1.5	25.00%	Ant2	19.50	22.60	21.40	20.60	21.30	20.60	19.50	
FR1 n41/n38	PC3	100.00%	Ant0	23.60	30.50	29.80	18.60	20.70	20.00	23.60	
FR1 n41	PC2	50.00%	Ant0	22.50	30.50	29.80	18.60	20.70	20.00	22.50	
FR1 n41	PC1.5	25.00%	Ant0	19.00	30.50	29.80	18.60	20.70	20.00	19.00	



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FR1 n41/n38	PC3	100.00%	Ant1	24.10	13.80	13.10	18.90	19.90	19.20	24.10
FR1 n41	PC2	50.00%	Ant1	23.00	13.80	13.10	18.90	19.90	19.20	23.00
FR1 n41	PC1.5	25.00%	Ant1	19.50	13.80	13.10	18.90	19.90	19.20	19.50
FR1 n41/n38	PC3	100.00%	Ant5	23.70	17.50	16.30	20.90	22.40	21.70	23.70
FR1 n41	PC2	50.00%	Ant5	22.60	17.50	16.30	20.90	22.40	21.70	22.60
FR1 n41	PC1.5	25.00%	Ant5	19.10	17.50	16.30	20.90	22.40	21.70	19.10
FR1 n48	PC3	100.00%	Ant6	19.80	25.50	24.80	19.90	20.60	19.90	19.80
FR1 n48	PC3	100.00%	Ant7	19.80	26.50	25.80	18.40	19.10	18.40	19.80
FR1 n48	PC3	100.00%	Ant1	21.40	16.30	15.10	17.90	18.60	17.90	21.40
FR1 n48	PC3	100.00%	Ant5	22.60	15.20	14.00	21.30	22.00	21.30	22.60
FR1 n66	PC3	100.00%	Ant2	24.00	26.60	25.90	20.30	21.00	20.30	24.00
FR1 n66	PC3	100.00%	Ant0	23.60	34.00	33.30	18.10	19.90	19.20	23.60
FR1 n66	PC3	100.00%	Ant5	23.70	16.80	15.60	21.70	22.90	22.20	23.70
FR1 n66	PC3	100.00%	Ant1	24.00	16.50	15.30	21.60	22.30	21.60	24.00
FR1 n70	PC3	100.00%	Ant2	23.70	27.10	26.40	21.10	21.80	21.10	23.70
FR1 n70	PC3	100.00%	Ant0	23.30	33.30	32.60	18.00	19.70	19.00	23.30
FR1 n71	PC3	100.00%	Ant0	24.30	29.30	28.60	26.20	26.90	26.20	24.30
FR1 n71	PC3	100.00%	Ant1	24.00	23.30	22.10	28.80	29.50	28.80	24.00
FR1 n77/n78	PC3	100.00%	Ant6	24.00	22.30	21.10	17.60	18.30	17.60	24.00
FR1 n77/n78	PC2	50.00%	Ant6	23.00	22.30	21.10	17.60	18.30	17.60	23.00
FR1 n77	PC1.5	25.00%	Ant6	19.50	22.30	21.10	17.60	18.30	17.60	19.50
FR1 n77/n78	PC3	100.00%	Ant7	23.20	23.50	22.30	17.40	18.10	17.40	23.20
FR1 n77/n78	PC2	50.00%	Ant7	22.20	23.50	22.30	17.40	18.10	17.40	22.20
FR1 n77	PC1.5	25.00%	Ant7	18.70	23.50	22.30	17.40	18.10	17.40	18.70
FR1 n77/n78	PC3	100.00%	Ant1	24.00	14.60	13.40	17.20	18.70	18.00	24.00
FR1 n77	PC2	50.00%	Ant1	23.00	14.60	13.40	17.20	18.70	18.00	23.00
FR1 n77	PC1.5	25.00%	Ant1	19.40	14.60	13.40	17.20	18.70	18.00	19.40
FR1 n77/n78	PC3	100.00%	Ant5	22.60	15.80	14.60	20.70	21.40	20.70	22.60
FR1 n77	PC2	50.00%	Ant5	21.60	15.80	14.60	20.70	21.40	20.70	21.60
FR1 n77	PC1.5	25.00%	Ant5	18.70	15.80	14.60	20.70	21.40	20.70	18.70
NTN B23	PC3	83.00%	Ant1	21.70				21.10		21.70
NTN B255	PC3	83.00%	Ant4	22.70				21.60		22.70

4. 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
- 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 941225 D07 UMPC Mini Tablet v01r02
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

5. RF Exposure Limits

5.1 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.

5.2 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

1. 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.

5.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

6. Specific Absorption Rate (SAR)

6.1 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.

6.2 SAR Definition

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

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

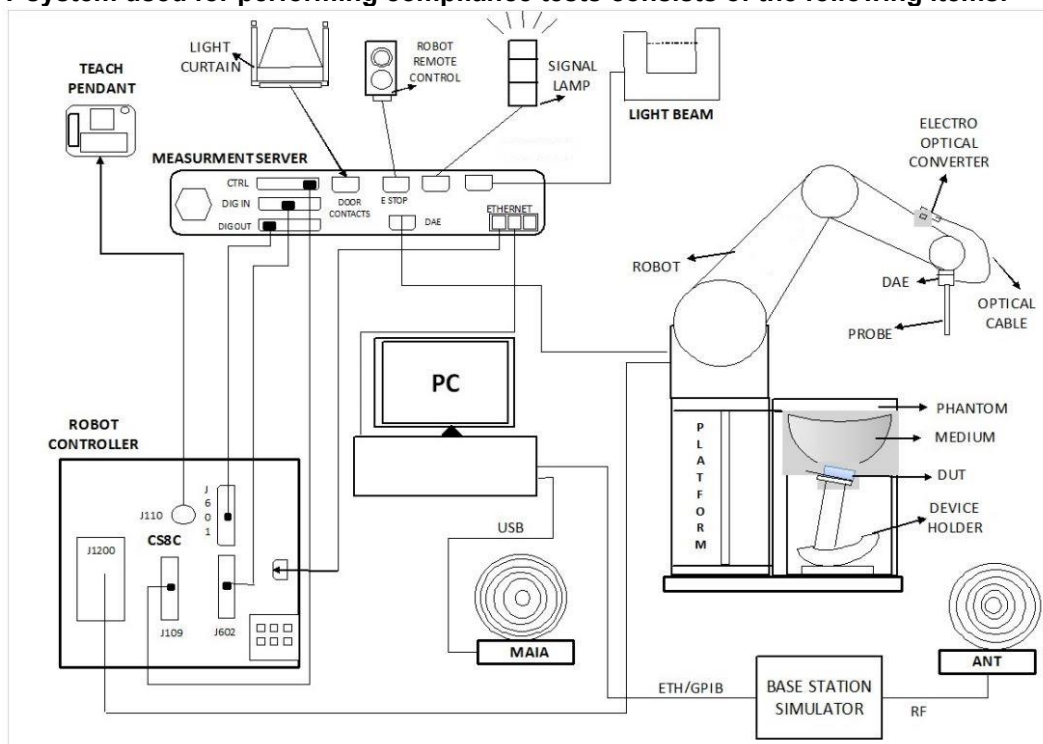
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

7. 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.

7.1 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: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Laboratory	EMC & Wireless Communications Laboratory		Wensan Laboratory				
Test Site Location	TW1190 No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		TW3786 No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan				
Test Site No.	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY	SAR15-HY	SAR18-HY	SAR21-HY
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY	SAR19-HY	SAR22-HY
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY	SAR20-HY	

7.2 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.

<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	

<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	

7.3 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

7.4 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.

7.5 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

8. Measurement Procedures

The measurement procedures are as follows:

- (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

8.1 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

8.2 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.

8.3 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: Δx_{Area} , Δy_{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.	

8.4 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.				

8.5 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.

8.6 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.



9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1107	Jun. 22, 2022	Jun. 19, 2025
SPEAG	835MHz System Validation Kit	D835V2	499	Aug. 22, 2024	Aug. 21, 2025
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	4d167	Nov. 24, 2022	Nov. 21, 2025
SPEAG	1640MHz System Validation Kit ⁽²⁾	D1640V2	346	Aug. 19, 2022	Aug. 16, 2025
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1120	Mar. 25, 2022	Mar. 22, 2025
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1112	Jun. 22, 2022	Jun. 19, 2025
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d093	Mar. 25, 2022	Mar. 22, 2025
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d185	Jun. 17, 2022	Jun. 14, 2025
SPEAG	2000MHz System Validation Kit	D2000V2	1010	Aug. 16, 2024	Aug. 15, 2025
SPEAG	2300MHz System Validation Kit	D2300V2	1088	Jul. 10, 2024	Jul. 09, 2025
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	929	Nov. 21, 2022	Nov. 18, 2025
SPEAG	2600MHz System Validation Kit	D2600V2	1008	Aug. 15, 2024	Aug. 14, 2025
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1014	Jan. 15, 2025	Jan. 12, 2028
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1036	Mar. 23, 2022	Mar. 20, 2025
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1006	Jun. 20, 2022	Jun. 17, 2025
SPEAG	3700MHz System Validation Kit	D3700V2	1022	Jul. 10, 2024	Jul. 09, 2025
SPEAG	3900MHz System Validation Kit ⁽²⁾	D3900V2	1092	May. 15, 2023	May. 13, 2025
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Oct. 15, 2024	Oct. 14, 2025
SPEAG	5GHz System Validation Kit	D5GHzV2	1128	Sep. 17, 2024	Sep. 16, 2025
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1003	Mar. 15, 2024	Mar. 14, 2025
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1083	Oct. 17, 2024	Oct. 16, 2025
SPEAG	13MHz System Validation Kit ⁽²⁾	CLA13	1011	Jul. 10, 2023	Jul. 08, 2025
SPEAG	5G Verification Source	10GHz	1052	Oct. 16, 2024	Oct. 15, 2025
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9441	Nov. 13, 2024	Nov. 12, 2025
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9461	Oct. 16, 2024	Oct. 15, 2025
SPEAG	Data Acquisition Electronics	DAE4	316	Feb. 11, 2025	Feb. 10, 2026
SPEAG	Data Acquisition Electronics	DAE4	661	May. 16, 2024	May. 15, 2025
SPEAG	Data Acquisition Electronics	DAE4	699	Feb. 18, 2025	Feb. 17, 2026
SPEAG	Data Acquisition Electronics	DAE4	703	Apr. 22, 2024	Apr. 21, 2025
SPEAG	Data Acquisition Electronics	DAE4	1399	Mar. 13, 2024	Mar. 12, 2025
SPEAG	Data Acquisition Electronics	DAE4	1424	Dec. 19, 2024	Dec. 18, 2025
SPEAG	Data Acquisition Electronics	DAE4	1647	Oct. 15, 2024	Oct. 14, 2025
SPEAG	Data Acquisition Electronics	DAE4	1694	Nov. 19, 2024	Nov. 18, 2025
SPEAG	Data Acquisition Electronics	DAE4	1697	Nov. 14, 2024	Nov. 13, 2025
SPEAG	Data Acquisition Electronics	DAE4	1707	Dec. 04, 2024	Dec. 03, 2025
SPEAG	Data Acquisition Electronics	DAE4	1794	Feb. 12, 2025	Feb. 11, 2026
SPEAG	Data Acquisition Electronics	DAE4	1805	May. 22, 2024	May. 21, 2025
SPEAG	Data Acquisition Electronics	DAE4ip	1800	Jun. 18, 2024	Jun. 17, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Nov. 19, 2024	Nov. 18, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7590	Mar. 19, 2024	Mar. 18, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7625	Dec. 13, 2024	Dec. 12, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7694	Nov. 18, 2024	Nov. 17, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7695	Dec. 02, 2024	Dec. 01, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7785	Nov. 28, 2024	Nov. 27, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7791	Feb. 19, 2025	Feb. 18, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7793	Feb. 18, 2025	Feb. 17, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7814	Jun. 20, 2024	Jun. 19, 2025
Testo	Hygro meter	608-H1	45196600	Oct. 28, 2024	Oct. 27, 2025
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Nov. 12, 2024	Nov. 11, 2025
Keysight	5G Wireless Test Platform	E7515B	MY58300712	Apr. 22, 2024	Apr. 21, 2025
R&S	BT Base Station	CBT	101136	Oct. 20, 2024	Oct. 19, 2025
SPEAG	Device Holder	N/A	N/A	N/A	N/A

Anritsu	Signal Generator	MG3710A	6201502524	Sep. 24, 2024	Sep. 23, 2025
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 20, 2024	Oct. 19, 2025
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 17, 2024	Sep. 16, 2025
SPEAG	Dielectric Probe Kit	DAK-12	1156	Jul. 15, 2024	Jul. 14, 2025
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3690	Aug. 07, 2024	Aug. 06, 2025
Anritsu	Power Meter	ML2495A	1419002	Aug. 13, 2024	Aug. 12, 2025
Anritsu	Power Sensor	MA2411B	1911176	Aug. 13, 2024	Aug. 12, 2025
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 09, 2024	Jul. 08, 2025
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 23, 2024	Oct. 22, 2025
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	

General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. 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.

10. System Verification

10.1 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 liquid tissue depth was at least 15cm in the phantom for all SAR testing

<Tissue Dielectric Parameter Check Results>

WWAN									
Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	22.5	0.885	42.700	0.89	41.90	-0.56	1.91	± 5	2025/1/19
750	22.1	0.892	42.900	0.89	41.90	0.22	2.39	± 5	2025/1/20
750	22.5	0.894	41.700	0.89	41.90	0.45	-0.48	± 5	2025/1/20
750	22.4	0.896	41.700	0.89	41.90	0.67	-0.48	± 5	2025/1/22
750	22.5	0.894	43.200	0.89	41.90	0.45	3.10	± 5	2025/2/3
750	22.5	0.895	41.600	0.89	41.90	0.56	-0.72	± 5	2025/2/4
750	22.5	0.898	42.300	0.89	41.90	0.90	0.95	± 5	2025/2/5
750	22.5	0.896	43.100	0.89	41.90	0.67	2.86	± 5	2025/2/5
750	22.5	0.889	43.000	0.89	41.90	-0.11	2.63	± 5	2025/2/7
750	22.2	0.891	41.400	0.89	41.90	0.11	-1.19	± 5	2025/2/12
750	22.6	0.889	43.000	0.89	41.90	-0.11	2.63	± 5	2025/2/16
750	22.5	0.892	40.000	0.89	41.90	0.22	-4.53	± 5	2025/3/5
835	22.5	0.919	42.400	0.90	41.50	2.11	2.17	± 5	2025/1/19
835	22.1	0.926	42.600	0.90	41.50	2.89	2.65	± 5	2025/1/20
835	22.5	0.929	41.600	0.90	41.50	3.22	0.24	± 5	2025/1/23
835	22.4	0.934	43.000	0.90	41.50	3.78	3.61	± 5	2025/1/30
835	22.5	0.928	42.900	0.90	41.50	3.11	3.37	± 5	2025/2/3
835	22.5	0.927	41.800	0.90	41.50	3.00	0.72	± 5	2025/2/4
835	22.6	0.930	42.900	0.90	41.50	3.33	3.37	± 5	2025/2/8
835	22.5	0.926	40.100	0.90	41.50	2.89	-3.37	± 5	2025/3/5
1640	22.8	1.260	39.900	1.31	40.23	-3.82	-0.82	± 5	2025/2/18
1750	22.5	1.370	40.500	1.37	40.10	0.00	1.00	± 5	2025/1/29
1750	22.2	1.360	40.700	1.37	40.10	-0.73	1.50	± 5	2025/1/31
1750	22.4	1.370	40.700	1.37	40.10	0.00	1.50	± 5	2025/2/2
1750	22.5	1.360	40.900	1.37	40.10	-0.73	2.00	± 5	2025/2/6
1750	22.5	1.360	40.600	1.37	40.10	-0.73	1.25	± 5	2025/2/8
1750	22.5	1.360	40.600	1.37	40.10	-0.73	1.25	± 5	2025/2/9
1750	22.5	1.380	41.000	1.37	40.10	0.73	2.24	± 5	2025/2/10
1750	22.1	1.360	40.700	1.37	40.10	-0.73	1.50	± 5	2025/2/11
1750	22.4	1.350	40.400	1.37	40.10	-1.46	0.75	± 5	2025/2/14
1750	22.5	1.360	41.000	1.37	40.10	-0.73	2.24	± 5	2025/2/15
1750	22.7	1.350	40.500	1.37	40.10	-1.46	1.00	± 5	2025/2/15
1750	22.7	1.370	40.400	1.37	40.10	0.00	0.75	± 5	2025/2/17
1750	22.8	1.360	40.700	1.37	40.10	-0.73	1.50	± 5	2025/2/18
1750	22.5	1.370	40.600	1.37	40.10	0.00	1.25	± 5	2025/2/19
1750	22.6	1.360	40.800	1.37	40.10	-0.73	1.75	± 5	2025/3/6
1900	22.7	1.450	39.200	1.40	40.00	3.57	-2.00	± 5	2025/1/27
1900	22.5	1.440	39.000	1.40	40.00	2.86	-2.50	± 5	2025/1/29
1900	22.2	1.430	39.100	1.40	40.00	2.14	-2.25	± 5	2025/1/31
1900	22.4	1.380	40.400	1.40	40.00	-1.43	1.00	± 5	2025/2/2
1900	22.3	1.430	39.200	1.40	40.00	2.14	-2.00	± 5	2025/2/3



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1900	22.5	1.390	40.600	1.40	40.00	-0.71	1.50	±5	2025/2/6
1900	22.5	1.430	39.000	1.40	40.00	2.14	-2.50	±5	2025/2/8
1900	22.5	1.430	39.100	1.40	40.00	2.14	-2.25	±5	2025/2/9
1900	22.5	1.460	39.500	1.40	40.00	4.29	-1.25	±5	2025/2/10
1900	22.2	1.390	40.500	1.40	40.00	-0.71	1.25	±5	2025/2/12
1900	22.3	1.430	38.700	1.40	40.00	2.14	-3.25	±5	2025/2/13
1900	22.4	1.420	38.900	1.40	40.00	1.43	-2.75	±5	2025/2/14
1900	22.5	1.440	39.400	1.40	40.00	2.86	-1.50	±5	2025/2/15
1900	22.7	1.450	38.900	1.40	40.00	3.57	-2.75	±5	2025/2/17
1900	22.5	1.450	39.000	1.40	40.00	3.57	-2.50	±5	2025/2/19
1900	22.6	1.370	40.600	1.40	40.00	-2.14	1.50	±5	2025/3/6
2000	22.8	1.430	39.300	1.40	40.00	2.14	-1.75	±5	2025/2/18
2300	22.6	1.670	39.900	1.67	39.50	0.00	1.01	±5	2025/2/8
2300	22.1	1.640	39.600	1.67	39.50	-1.80	0.25	±5	2025/2/11
2300	22.3	1.650	39.600	1.67	39.50	-1.20	0.25	±5	2025/2/13
2300	22.8	1.670	40.600	1.67	39.50	0.00	2.78	±5	2025/2/18
2300	22.4	1.600	40.300	1.67	39.50	-4.19	2.03	±5	2025/2/28
2600	22.7	1.990	38.800	1.96	39.00	1.53	-0.51	±5	2025/2/6
2600	22.5	2.010	38.600	1.96	39.00	2.55	-1.03	±5	2025/2/6
2600	22.4	2.050	39.300	1.96	39.00	4.59	0.77	±5	2025/2/11
2600	22.1	1.980	38.400	1.96	39.00	1.02	-1.54	±5	2025/2/11
2600	22.2	1.960	38.000	1.96	39.00	0.00	-2.56	±5	2025/2/12
2600	22.2	1.970	38.600	1.96	39.00	0.51	-1.03	±5	2025/2/12
2600	22.3	1.990	38.200	1.96	39.00	1.53	-2.05	±5	2025/2/13
2600	22.3	1.980	38.400	1.96	39.00	1.02	-1.54	±5	2025/2/13
2600	22.5	1.960	39.200	1.96	39.00	0.00	0.51	±5	2025/2/14
2600	22.5	2.030	38.500	1.96	39.00	3.57	-1.28	±5	2025/2/19
3500	22.5	2.960	38.300	2.91	37.90	1.72	1.06	±5	2025/2/1
3500	22.5	3.010	39.100	2.91	37.90	3.44	3.17	±5	2025/2/7
3500	22.5	2.990	38.800	2.91	37.90	2.75	2.37	±5	2025/2/9
3500	22.5	2.950	38.300	2.91	37.90	1.37	1.06	±5	2025/2/10
3500	22.6	2.960	37.700	2.91	37.90	1.72	-0.53	±5	2025/2/24
3500	22.6	2.920	38.100	2.91	37.90	0.34	0.53	±5	2025/3/1
3500	22.3	2.930	37.800	2.91	37.90	0.69	-0.26	±5	2025/3/12
3500	22.5	3.010	37.800	2.91	37.90	3.44	-0.26	±5	2025/3/16
3700	22.5	3.120	37.200	3.12	37.70	0.00	-1.33	±5	2025/1/26
3700	22.5	3.170	38.100	3.12	37.70	1.60	1.06	±5	2025/2/1
3700	22.5	3.220	38.900	3.12	37.70	3.21	3.18	±5	2025/2/7
3700	22.5	3.200	38.600	3.12	37.70	2.56	2.39	±5	2025/2/9
3700	22.5	3.160	38.100	3.12	37.70	1.28	1.06	±5	2025/2/10
3700	22.6	3.150	37.400	3.12	37.70	0.96	-0.80	±5	2025/2/24
3700	22.6	3.130	37.900	3.12	37.70	0.32	0.53	±5	2025/3/1
3700	22.3	3.110	37.500	3.12	37.70	-0.32	-0.53	±5	2025/3/12
3700	22.5	3.190	37.500	3.12	37.70	2.24	-0.53	±5	2025/3/16
3900	22.5	3.380	37.900	3.33	37.51	1.50	1.04	±5	2025/2/1
3900	22.5	3.440	38.700	3.33	37.51	3.30	3.17	±5	2025/2/7
3900	22.5	3.420	38.400	3.33	37.51	2.70	2.37	±5	2025/2/9
3900	22.5	3.370	37.900	3.33	37.51	1.20	1.04	±5	2025/2/10
3900	22.6	3.350	37.100	3.33	37.51	0.60	-1.09	±5	2025/2/24

WLAN									
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	22.5	0.757	53.459	0.75	55.00	0.93	-2.80	±5	2025/2/26
2450	22.3	1.800	38.700	1.80	39.20	0.00	-1.28	±5	2025/1/23
2450	22.3	1.800	38.900	1.80	39.20	0.00	-0.77	±5	2025/1/24
2450	22.5	1.830	39.400	1.80	39.20	1.67	0.51	±5	2025/1/28
2450	22.6	1.860	38.600	1.80	39.20	3.33	-1.53	±5	2025/2/4
2450	22.6	1.790	39.200	1.80	39.20	-0.56	0.00	±5	2025/2/6
2450	22.3	1.860	39.200	1.80	39.20	3.33	0.00	±5	2025/2/15
2450	22.5	1.860	38.800	1.80	39.20	3.33	-1.02	±5	2025/2/26
5250	22.3	4.690	35.700	4.71	35.95	-0.42	-0.70	±5	2025/1/25
5250	22.3	4.840	36.600	4.71	35.95	2.76	1.81	±5	2025/1/26
5250	22.6	4.760	37.200	4.71	35.95	1.06	3.48	±5	2025/1/29
5250	22.6	4.550	35.300	4.71	35.95	-3.40	-1.81	±5	2025/2/11
5250	22.6	4.590	35.500	4.71	35.95	-2.55	-1.25	±5	2025/2/11
5250	22.6	4.650	35.800	4.71	35.95	-1.27	-0.42	±5	2025/2/13
5250	22.3	4.840	36.200	4.71	35.95	2.76	0.70	±5	2025/2/13
5250	22.6	4.730	35.900	4.71	35.95	0.42	-0.14	±5	2025/2/14
5250	22.5	4.700	36.600	4.71	35.95	-0.21	1.81	±5	2025/2/25
5250	22.7	4.700	36.700	4.71	35.95	-0.21	2.09	±5	2025/2/28
5600	22.3	5.010	35.200	5.07	35.50	-1.18	-0.85	±5	2025/1/25
5600	22.3	5.230	36.100	5.07	35.50	3.16	1.69	±5	2025/1/26
5600	22.6	5.110	36.700	5.07	35.50	0.79	3.38	±5	2025/1/29
5600	22.6	4.940	34.700	5.07	35.50	-2.56	-2.25	±5	2025/2/11
5600	22.6	4.980	34.900	5.07	35.50	-1.78	-1.69	±5	2025/2/11
5600	22.6	5.050	35.200	5.07	35.50	-0.39	-0.85	±5	2025/2/13
5600	22.6	5.240	35.600	5.07	35.50	3.35	0.28	±5	2025/2/13
5600	22.6	5.130	35.300	5.07	35.50	1.18	-0.56	±5	2025/2/14
5600	22.5	5.050	36.100	5.07	35.50	-0.39	1.69	±5	2025/2/25
5800	22.3	5.210	35.000	5.27	35.30	-1.14	-0.85	±5	2025/1/25
5800	22.3	5.440	35.900	5.27	35.30	3.23	1.70	±5	2025/1/26
5800	22.6	5.330	36.400	5.27	35.30	1.14	3.12	±5	2025/1/29
5800	22.6	5.190	34.300	5.27	35.30	-1.52	-2.83	±5	2025/2/11
5800	22.6	5.220	34.500	5.27	35.30	-0.95	-2.27	±5	2025/2/11
5800	22.6	5.300	34.800	5.27	35.30	0.57	-1.42	±5	2025/2/13
5800	22.3	5.500	35.300	5.27	35.30	4.36	0.00	±5	2025/2/13
5800	22.5	5.270	35.800	5.27	35.30	0.00	1.42	±5	2025/2/25
6500	22.2	6.080	34.700	6.07	34.50	0.16	0.58	±5	2025/2/13
6500	22.5	6.150	34.700	6.07	34.50	1.32	0.58	±5	2025/2/19
6500	22.1	6.100	34.500	6.07	34.50	0.49	0.00	±5	2025/2/21
6500	22.5	6.110	35.000	6.07	34.50	0.66	1.45	±5	2025/3/5
6500	22.6	6.070	35.100	6.07	34.50	0.00	1.74	±5	2025/3/10



10.2 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.

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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 (%)	Test Site
2025/1/19	750	250	D750V3-1107	EX3DV4 - SN7785	DAE4 Sn1694	2.170	8.540	8.68	1.64	1.460	5.570	5.84	4.85	SAR-20
2025/1/20	750	250	D750V3-1107	EX3DV4 - SN7694	DAE4 Sn1697	2.250	8.540	9	5.39	1.500	5.570	6	7.72	SAR-21
2025/1/20	750	250	D750V3-1107	EX3DV4 - SN7785	DAE4 Sn1694	2.200	8.540	8.8	3.04	1.480	5.570	5.92	6.28	SAR-20
2025/1/22	750	250	D750V3-1107	EX3DV4 - SN7785	DAE4 Sn1694	2.180	8.540	8.72	2.11	1.470	5.570	5.88	5.57	SAR-20
2025/2/3	750	250	D750V3-1107	EX3DV4 - SN7785	DAE4 Sn1694	2.220	8.540	8.88	3.98	1.490	5.570	5.96	7.00	SAR-20
2025/2/4	750	250	D750V3-1107	EX3DV4 - SN7785	DAE4 Sn1694	2.250	8.540	9	5.39	1.510	5.570	6.04	8.44	SAR-20
2025/2/5	750	250	D750V3-1107	EX3DV4 - SN7694	DAE4 Sn1697	2.280	8.540	9.12	6.79	1.520	5.570	6.08	9.16	SAR-21
2025/2/5	750	250	D750V3-1107	EX3DV4 - SN7785	DAE4 Sn1694	2.250	8.540	9	5.39	1.520	5.570	6.08	9.16	SAR-20
2025/2/7	750	250	D750V3-1107	EX3DV4 - SN7785	DAE4 Sn1694	2.220	8.540	8.88	3.98	1.490	5.570	5.96	7.00	SAR-20
2025/2/12	750	250	D750V3-1107	EX3DV4 - SN7694	DAE4 Sn1697	2.210	8.540	8.84	3.51	1.480	5.570	5.92	6.28	SAR-21
2025/2/16	750	250	D750V3-1107	EX3DV4 - SN7785	DAE4 Sn1694	2.200	8.540	8.8	3.04	1.480	5.570	5.92	6.28	SAR-20
2025/3/5	750	250	D750V3-1107	EX3DV4 - SN7625	DAE4ip Sn1800	2.280	8.540	9.12	6.79	1.520	5.570	6.08	9.16	SAR-18
2025/1/19	835	250	D835V2-4d167	EX3DV4 - SN7785	DAE4 Sn1694	2.550	9.800	10.2	4.08	1.690	6.380	6.76	5.96	SAR-20
2025/1/20	835	250	D835V2-4d167	EX3DV4 - SN7694	DAE4 Sn1697	2.580	9.800	10.32	5.31	1.710	6.380	6.84	7.21	SAR-21
2025/1/23	835	250	D835V2-4d167	EX3DV4 - SN7785	DAE4 Sn1694	2.590	9.800	10.36	5.71	1.710	6.380	6.84	7.21	SAR-20
2025/1/30	835	250	D835V2-4d167	EX3DV4 - SN7785	DAE4 Sn1694	2.490	9.800	9.96	1.63	1.650	6.380	6.6	3.45	SAR-20
2025/2/3	835	250	D835V2-4d167	EX3DV4 - SN7785	DAE4 Sn1694	2.550	9.800	10.2	4.08	1.690	6.380	6.76	5.96	SAR-20
2025/2/4	835	250	D835V2-4d167	EX3DV4 - SN7694	DAE4 Sn1697	2.580	9.800	10.32	5.31	1.710	6.380	6.84	7.21	SAR-21
2025/2/8	835	250	D835V2-4d167	EX3DV4 - SN7785	DAE4 Sn1694	2.560	9.800	10.24	4.49	1.700	6.380	6.8	6.58	SAR-20
2025/3/5	835	250	D835V2-4d167	EX3DV4 - SN7625	DAE4ip Sn1800	2.630	9.800	10.52	7.35	1.720	6.380	6.88	7.84	SAR-18
2025/2/18	1640	50	D1640V2-346	EX3DV4 - SN7785	DAE4 Sn1694	1.640	34.600	32.8	-5.20	0.908	18.600	18.16	-2.37	SAR-20
2025/1/29	1750	50	D1750V2-1120	EX3DV4 - SN7785	DAE4 Sn1694	1.850	36.400	37	1.65	1.000	19.100	20	4.71	SAR-20
2025/1/31	1750	50	D1750V2-1120	EX3DV4 - SN7785	DAE4 Sn1694	1.850	36.400	37	1.65	1.010	19.100	20.2	5.76	SAR-20
2025/2/2	1750	50	D1750V2-1112	EX3DV4 - SN7785	DAE4 Sn1694	1.840	36.900	36.8	-0.27	1.000	19.400	20	3.09	SAR-20
2025/2/6	1750	50	D1750V2-1120	EX3DV4 - SN7785	DAE4 Sn1694	1.810	36.400	36.2	-0.55	0.986	19.100	19.72	3.25	SAR-20
2025/2/8	1750	50	D1750V2-1120	EX3DV4 - SN7694	DAE4 Sn1697	1.670	36.400	33.4	-8.24	0.907	19.100	18.14	-5.03	SAR-21
2025/2/9	1750	50	D1750V2-1112	EX3DV4 - SN7785	DAE4 Sn1694	1.830	36.900	36.6	-0.81	0.997	19.400	19.94	2.78	SAR-20
2025/2/10	1750	50	D1750V2-1112	EX3DV4 - SN7785	DAE4 Sn1694	1.750	36.900	35	-5.15	0.955	19.400	19.1	-1.55	SAR-20
2025/2/11	1750	50	D1750V2-1120	EX3DV4 - SN7785	DAE4 Sn1694	1.800	36.400	36	-1.10	0.979	19.100	19.58	2.51	SAR-20
2025/2/14	1750	50	D1750V2-1120	EX3DV4 - SN7785	DAE4 Sn1694	1.860	36.400	37.2	2.20	1.010	19.100	20.2	5.76	SAR-20
2025/2/15	1750	50	D1750V2-1112	EX3DV4 - SN7785	DAE4 Sn1694	1.830	36.900	36.6	-0.81	0.995	19.400	19.9	2.58	SAR-20
2025/2/15	1750	50	D1750V2-1120	EX3DV4 - SN7694	DAE4 Sn1697	1.690	36.400	33.8	-7.14	0.916	19.100	18.32	-4.08	SAR-21
2025/2/17	1750	50	D1750V2-1120	EX3DV4 - SN7785	DAE4 Sn1694	1.840	36.400	36.8	1.10	1.000	19.100	20	4.71	SAR-20
2025/2/18	1750	50	D1750V2-1120	EX3DV4 - SN7785	DAE4 Sn1694	1.770	36.400	35.4	-2.75	0.963	19.100	19.26	0.84	SAR-20
2025/2/19	1750	50	D1750V2-1120	EX3DV4 - SN7785	DAE4 Sn1694	1.770	36.400	35.4	-2.75	0.971	19.100	19.42	1.68	SAR-20
2025/3/6	1750	50	D1750V2-1112	EX3DV4 - SN7625	DAE4ip Sn1800	1.830	36.900	36.6	-0.81	0.984	19.400	19.68	1.44	SAR-18
2025/1/27	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	2.000	39.900	40	0.25	1.060	20.700	21.2	2.42	SAR-20
2025/1/29	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	1.990	39.900	39.8	-0.25	1.050	20.700	21	1.45	SAR-20
2025/1/31	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	1.960	39.900	39.2	-1.75	1.040	20.700	20.8	0.48	SAR-20
2025/2/2	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	1.850	39.900	37	-7.27	0.979	20.700	19.58	-5.41	SAR-20
2025/2/3	1900	50	D1900V2-5d093	EX3DV4 - SN7694	DAE4 Sn1697	1.880	39.900	37.6	-5.76	0.985	20.700	19.7	-4.83	SAR-21
2025/2/6	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	1.890	39.900	37.8	-5.26	0.998	20.700	19.96	-3.57	SAR-20
2025/2/8	1900	50	D1900V2-5d185	EX3DV4 - SN7694	DAE4 Sn1697	1.890	39.000	37.8	-3.08	0.998	20.400	19.96	-2.16	SAR-21
2025/2/9	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	2.050	39.900	41	2.76	1.080	20.700	21.6	4.35	SAR-20
2025/2/10	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	1.950	39.900	39	-2.26	1.030	20.700	20.6	-0.48	SAR-20
2025/2/12	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	1.860	39.900	37.2	-6.77	0.987	20.700	19.74	-4.64	SAR-20
2025/2/13	1900	50	D1900V2-5d093	EX3DV4 - SN7694	DAE4 Sn1697	1.850	39.900	37	-7.27	0.975	20.700	19.5	-5.80	SAR-21



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2025/2/14	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	1.960	39.900	39.2	-1.75	1.040	20.700	20.8	0.48	SAR-20
2025/2/15	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	1.980	39.900	39.6	-0.75	1.050	20.700	21	1.45	SAR-20
2025/2/17	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	2.000	39.900	40	0.25	1.060	20.700	21.2	2.42	SAR-20
2025/2/19	1900	50	D1900V2-5d093	EX3DV4 - SN7785	DAE4 Sn1694	1.980	39.900	39.6	-0.75	1.050	20.700	21	1.45	SAR-20
2025/3/6	1900	50	D1900V2-5d185	EX3DV4 - SN7625	DAE4ip Sn1800	1.910	39.000	38.2	-2.05	1.030	20.400	20.6	0.98	SAR-18
2025/2/18	2000	50	D2000V2-1010	EX3DV4 - SN7785	DAE4 Sn1694	1.890	40.200	37.8	-5.97	0.986	20.900	19.72	-5.65	SAR-20
2025/2/8	2300	50	D2300V2-1088	EX3DV4 - SN7785	DAE4 Sn1694	2.220	48.200	44.4	-7.88	1.110	23.300	22.2	-4.72	SAR-20
2025/2/11	2300	50	D2300V2-1088	EX3DV4 - SN7785	DAE4 Sn1694	2.470	48.200	49.4	2.49	1.110	23.300	22.2	-4.72	SAR-20
2025/2/13	2300	50	D2300V2-1088	EX3DV4 - SN7785	DAE4 Sn1694	2.390	48.200	47.8	-0.83	1.080	23.300	21.6	-7.30	SAR-20
2025/2/18	2300	50	D2300V2-1088	EX3DV4 - SN7785	DAE4 Sn1694	2.290	48.200	45.8	-4.98	1.120	23.300	22.4	-3.86	SAR-20
2025/2/28	2300	50	D2300V2-1088	EX3DV4 - SN7694	DAE4 Sn1697	2.230	48.200	44.6	-7.47	1.130	23.300	22.6	-3.00	SAR-21
2025/2/6	2600	50	D2600V2-1008	EX3DV4 - SN7694	DAE4 Sn1697	2.550	55.700	51	-8.44	1.160	25.300	23.2	-8.30	SAR-21
2025/2/6	2600	50	D2600V2-1008	EX3DV4 - SN7785	DAE4 Sn1694	2.660	55.700	53.2	-4.49	1.220	25.300	24.4	-3.56	SAR-20
2025/2/11	2600	50	D2600V2-1008	EX3DV4 - SN7694	DAE4 Sn1697	2.860	55.700	57.2	2.69	1.280	25.300	25.6	1.19	SAR-21
2025/2/11	2600	50	D2600V2-1008	EX3DV4 - SN7785	DAE4 Sn1694	2.570	55.700	51.4	-7.72	1.180	25.300	23.6	-6.72	SAR-20
2025/2/12	2600	50	D2600V2-1008	EX3DV4 - SN7694	DAE4 Sn1697	2.730	55.700	54.6	-1.97	1.230	25.300	24.6	-2.77	SAR-21
2025/2/12	2600	50	D2600V2-1008	EX3DV4 - SN7785	DAE4 Sn1694	2.530	55.700	50.6	-9.16	1.160	25.300	23.2	-8.30	SAR-20
2025/2/13	2600	50	D2600V2-1008	EX3DV4 - SN7694	DAE4 Sn1697	2.570	55.700	51.4	-7.72	1.170	25.300	23.4	-7.51	SAR-21
2025/2/13	2600	50	D2600V2-1008	EX3DV4 - SN7785	DAE4 Sn1694	2.670	55.700	53.4	-4.13	1.230	25.300	24.6	-2.77	SAR-20
2025/2/14	2600	50	D2600V2-1008	EX3DV4 - SN7694	DAE4 Sn1697	2.610	55.700	52.2	-6.28	1.180	25.300	23.6	-6.72	SAR-21
2025/2/19	2600	50	D2600V2-1008	EX3DV4 - SN7785	DAE4 Sn1694	2.620	55.700	52.4	-5.92	1.210	25.300	24.2	-4.35	SAR-20
2025/2/1	3500	50	D3500V2-1036	EX3DV4 - SN7785	DAE4 Sn1694	3.590	67.400	71.8	6.53	1.380	25.100	27.6	9.96	SAR-20
2025/2/7	3500	50	D3500V2-1036	EX3DV4 - SN7694	DAE4 Sn1697	3.220	67.400	64.4	-4.45	1.240	25.100	24.8	-1.20	SAR-21
2025/2/9	3500	50	D3500V2-1036	EX3DV4 - SN7694	DAE4 Sn1697	3.200	67.400	64	-5.04	1.230	25.100	24.6	-1.99	SAR-21
2025/2/10	3500	50	D3500V2-1036	EX3DV4 - SN7694	DAE4 Sn1697	3.130	67.400	62.6	-7.12	1.200	25.100	24	-4.38	SAR-21
2025/2/24	3500	50	D3500V2-1014	EX3DV4 - SN7625	DAE4ip Sn1800	3.290	65.700	65.8	0.15	1.250	24.900	25	0.40	SAR-18
2025/3/1	3500	50	D3500V2-1036	EX3DV4 - SN7694	DAE4 Sn1697	3.160	67.400	63.2	-6.23	1.230	25.100	24.6	-1.99	SAR-21
2025/3/12	3500	50	D3500V2-1014	EX3DV4 - SN7791	DAE4 Sn316	3.450	65.700	69	5.02	1.240	24.900	24.8	-0.40	SAR-17
2025/3/16	3500	50	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1694	3.450	65.700	69	5.02	1.360	24.900	27.2	9.24	SAR-20
2025/1/26	3700	50	D3700V2-1022	EX3DV4 - SN7785	DAE4 Sn1694	3.230	68.100	64.6	-5.14	1.210	25.200	24.2	-3.97	SAR-20
2025/2/1	3700	50	D3700V2-1022	EX3DV4 - SN7785	DAE4 Sn1694	3.660	68.100	73.2	7.49	1.380	25.200	27.6	9.52	SAR-20
2025/2/7	3700	50	D3700V2-1006	EX3DV4 - SN7694	DAE4 Sn1697	3.330	65.600	66.6	1.52	1.260	23.700	25.2	6.33	SAR-21
2025/2/9	3700	50	D3700V2-1022	EX3DV4 - SN7694	DAE4 Sn1697	3.280	68.100	65.6	-3.67	1.230	25.200	24.6	-2.38	SAR-21
2025/2/10	3700	50	D3700V2-1022	EX3DV4 - SN7694	DAE4 Sn1697	3.210	68.100	64.2	-5.73	1.210	25.200	24.2	-3.97	SAR-21
2025/2/24	3700	50	D3700V2-1022	EX3DV4 - SN7625	DAE4ip Sn1800	3.410	68.100	68.2	0.15	1.260	25.200	25.2	0.00	SAR-18
2025/3/1	3700	50	D3700V2-1022	EX3DV4 - SN7694	DAE4 Sn1697	3.170	68.100	63.4	-6.90	1.200	25.200	24	-4.76	SAR-21
2025/3/12	3700	50	D3700V2-1006	EX3DV4 - SN7791	DAE4 Sn316	3.110	65.600	62.2	-5.18	1.160	23.700	23.2	-2.11	SAR-17
2025/3/16	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1694	3.280	65.600	65.6	0.00	1.230	23.700	24.6	3.80	SAR-20
2025/2/1	3900	50	D3900V2-1092	EX3DV4 - SN7785	DAE4 Sn1694	3.170	67.000	63.4	-5.37	1.160	23.200	23.2	0.00	SAR-20
2025/2/7	3900	50	D3900V2-1092	EX3DV4 - SN7694	DAE4 Sn1697	3.150	67.000	63	-5.97	1.130	23.200	22.6	-2.59	SAR-21
2025/2/9	3900	50	D3900V2-1092	EX3DV4 - SN7694	DAE4 Sn1697	3.180	67.000	63.6	-5.07	1.130	23.200	22.6	-2.59	SAR-21
2025/2/10	3900	50	D3900V2-1092	EX3DV4 - SN7694	DAE4 Sn1697	3.120	67.000	62.4	-6.87	1.110	23.200	22.2	-4.31	SAR-21
2025/2/24	3900	50	D3900V2-1092	EX3DV4 - SN7625	DAE4ip Sn1800	3.240	67.000	64.8	-3.28	1.140	23.200	22.8	-1.72	SAR-18



WLAN														
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 (%)	Test Site
2025/2/26	13	1000	CLA13-1011	EX3DV4 - SN3931	DAE4 Sn703	0.501	0.544	0.501	-7.22	0.312	0.340	0.312	-8.24	SAR-11
2025/1/23	2450	50	D2450V2-929	EX3DV4 - SN7625	DAE4ip Sn1800	2.600	52.400	52	-0.76	1.210	24.700	24.2	-2.02	SAR-18
2025/1/24	2450	50	D2450V2-929	EX3DV4 - SN7625	DAE4ip Sn1800	2.530	52.400	50.6	-3.44	1.180	24.700	23.6	-4.45	SAR-18
2025/1/28	2450	50	D2450V2-929	EX3DV4 - SN7793	DAE4 Sn1794	2.660	52.400	53.2	1.53	1.250	24.700	25	1.21	SAR-16
2025/2/4	2450	50	D2450V2-929	EX3DV4 - SN7814	DAE4 Sn661	2.760	52.400	55.2	5.34	1.300	24.700	26	5.26	SAR-15
2025/2/6	2450	50	D2450V2-929	EX3DV4 - SN7590	DAE4 Sn1399	2.540	52.400	50.8	-3.05	1.200	24.700	24	-2.83	SAR-17
2025/2/15	2450	50	D2450V2-929	EX3DV4 - SN3931	DAE4 Sn703	2.420	52.400	48.4	-7.63	1.140	24.700	22.8	-7.69	SAR-11
2025/2/26	2450	50	D2450V2-929	EX3DV4 - SN7785	DAE4 Sn1694	2.550	52.400	51	-2.67	1.230	24.700	24.6	-0.40	SAR-20
2025/1/25	5250	50	D5GHzV2-1006-5250	EX3DV4 - SN7625	DAE4ip Sn1800	3.720	80.600	74.4	-7.69	1.060	22.800	21.2	-7.02	SAR-18
2025/1/26	5250	50	D5GHzV2-1006-5250	EX3DV4 - SN7625	DAE4ip Sn1800	3.700	80.600	74	-8.19	1.040	22.800	20.8	-8.77	SAR-18
2025/1/29	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN7793	DAE4 Sn1794	7.830	80.600	78.3	-2.85	2.230	22.800	22.3	-2.19	SAR-16
2025/2/11	5250	50	D5GHzV2-1006-5250	EX3DV4 - SN7814	DAE4 Sn1647	3.710	80.600	74.2	-7.94	1.050	22.800	21	-7.89	SAR-15
2025/2/11	5250	100	D5GHzV2-1128-5250	EX3DV4 - SN7590	DAE4 Sn1399	7.970	77.500	79.7	2.84	2.290	22.200	22.9	3.15	SAR-17
2025/2/13	5250	100	D5GHzV2-1128-5250	EX3DV4 - SN7590	DAE4 Sn1399	7.770	77.500	77.7	0.26	2.250	22.200	22.5	1.35	SAR-17
2025/2/13	5250	50	D5GHzV2-1128-5250	EX3DV4 - SN3931	DAE4 Sn703	3.840	77.500	76.8	-0.90	1.090	22.200	21.8	-1.80	SAR-11
2025/2/14	5250	50	D5GHzV2-1128-5250	EX3DV4 - SN3931	DAE4 Sn703	3.730	77.500	74.6	-3.74	1.050	22.200	21	-5.41	SAR-11
2025/2/25	5250	50	D5GHzV2-1006-5250	EX3DV4 - SN7785	DAE4 Sn1694	3.870	80.600	77.4	-3.97	1.130	22.800	22.6	-0.88	SAR-20
2025/2/28	5250	50	D5GHzV2-1128-5250	EX3DV4 - SN7785	DAE4 Sn1694	3.750	77.500	75	-3.23	1.100	22.200	22	-0.90	SAR-20
2025/1/25	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN7625	DAE4ip Sn1800	3.820	83.400	76.4	-8.39	1.080	23.700	21.6	-8.86	SAR-18
2025/1/26	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN7625	DAE4ip Sn1800	3.870	83.400	77.4	-7.19	1.070	23.700	21.4	-9.70	SAR-18
2025/1/29	5600	100	D5GHzV2-1006-5600	EX3DV4 - SN7793	DAE4 Sn1794	8.810	83.400	88.1	5.64	2.490	23.700	24.9	5.06	SAR-16
2025/2/11	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN7814	DAE4 Sn1647	3.930	83.400	78.6	-5.76	1.100	23.700	22	-7.17	SAR-15
2025/2/11	5600	50	D5GHzV2-1128-5600	EX3DV4 - SN7590	DAE4 Sn1399	4.070	81.700	81.4	-0.37	1.170	23.500	23.4	-0.43	SAR-17
2025/2/13	5600	50	D5GHzV2-1128-5600	EX3DV4 - SN7590	DAE4 Sn1399	3.880	81.700	77.6	-5.02	1.120	23.500	22.4	-4.68	SAR-17
2025/2/13	5600	50	D5GHzV2-1128-5600	EX3DV4 - SN3931	DAE4 Sn703	4.070	81.700	81.4	-0.37	1.140	23.500	22.8	-2.98	SAR-11
2025/2/14	5600	50	D5GHzV2-1128-5600	EX3DV4 - SN3931	DAE4 Sn703	4.010	81.700	80.2	-1.84	1.110	23.500	22.2	-5.53	SAR-11
2025/2/25	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN7785	DAE4 Sn1694	4.060	83.400	81.2	-2.64	1.160	23.700	23.2	-2.11	SAR-20
2025/1/25	5800	50	D5GHzV2-1006-5800	EX3DV4 - SN7625	DAE4ip Sn1800	3.990	80.600	79.8	-0.99	1.100	22.700	22	-3.08	SAR-18
2025/1/26	5800	50	D5GHzV2-1006-5800	EX3DV4 - SN7625	DAE4ip Sn1800	3.800	80.600	76	-5.71	1.050	22.700	21	-7.49	SAR-18
2025/1/29	5800	100	D5GHzV2-1006-5800	EX3DV4 - SN7793	DAE4 Sn1794	8.000	80.600	80	-0.74	2.250	22.700	22.5	-0.88	SAR-16
2025/2/11	5800	50	D5GHzV2-1006-5800	EX3DV4 - SN7814	DAE4 Sn1647	3.710	80.600	74.2	-7.94	1.040	22.700	20.8	-8.37	SAR-15
2025/2/11	5800	50	D5GHzV2-1128-5800	EX3DV4 - SN7590	DAE4 Sn1399	3.660	78.600	73.2	-6.87	1.050	22.500	21	-6.67	SAR-17
2025/2/13	5800	100	D5GHzV2-1128-5800	EX3DV4 - SN7590	DAE4 Sn1399	7.730	78.600	77.3	-1.65	2.220	22.500	22.2	-1.33	SAR-17
2025/2/13	5800	50	D5GHzV2-1128-5800	EX3DV4 - SN3931	DAE4 Sn703	4.010	78.600	80.2	2.04	1.120	22.500	22.4	-0.44	SAR-11
2025/2/25	5800	50	D5GHzV2-1006-5800	EX3DV4 - SN7785	DAE4 Sn1694	3.770	80.600	75.4	-6.45	1.080	22.700	21.6	-4.85	SAR-20
2025/2/13	6500	100	D6.5GHzV2-1003	EX3DV4 - SN7694	DAE4 Sn1697	30.900	293.000	309	5.46	5.680	53.800	56.8	5.58	SAR-21
2025/2/19	6500	100	D6.5GHzV2-1003	EX3DV4 - SN7785	DAE4 Sn1694	30.400	293.000	304	3.75	5.660	53.800	56.6	5.20	SAR-20
2025/2/21	6500	100	D6.5GHzV2-1003	EX3DV4 - SN7785	DAE4 Sn1694	31.300	293.000	313	6.83	5.850	53.800	58.5	8.74	SAR-20
2025/3/5	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7785	DAE4 Sn1694	30.600	297.000	306	3.03	5.910	54.600	59.1	8.24	SAR-20
2025/3/10	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7695	DAE4 Sn1707	28.200	297.000	282	-5.05	5.240	54.600	52.4	-4.03	SAR-19

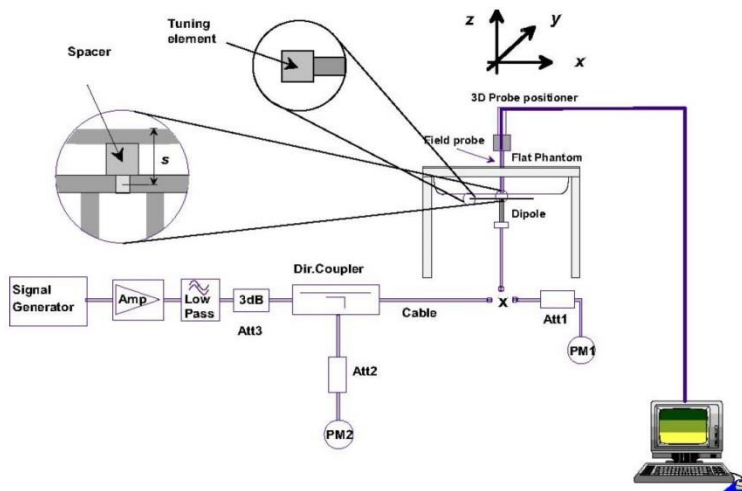

Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

10.3 PD System Performance Check Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes

Test Site	Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Measured 4 cm ² (W/m ²)	Targeted 4 cm ² (W/m ²)	Deviation (dB)	Date
SAR14	10G	10GHz_1052	9461	1805	10mm	55.1	57.2	-0.16	2024/12/23
SAR17	10G	10GHz_1052	9441	661	10mm	51.3	57.2	-0.47	2025/1/16
SAR17	10G	10GHz_1052	9461	699	10mm	52.1	57.2	-0.41	2025/1/16
SAR14	10G	10GHz_1052	9461	1424	10mm	57.9	57.2	0.05	2025/1/17
SAR17	10G	10GHz_1052	9461	703	10mm	52.2	57.2	-0.40	2025/3/5

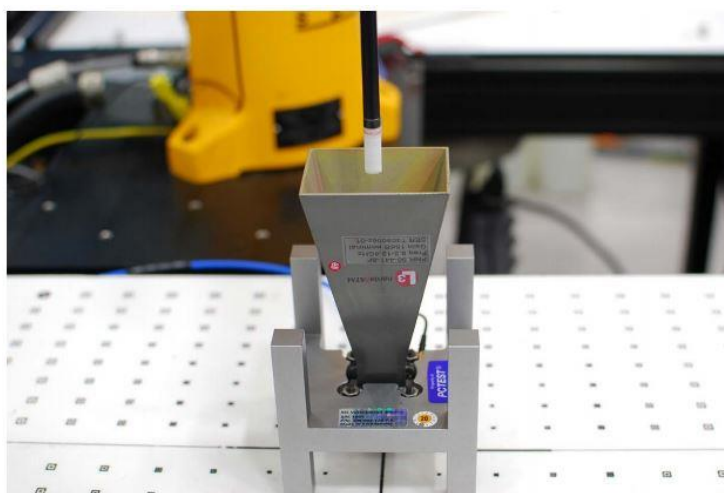


Figure 4-3
System Verification Setup Photo

System Performance Check Setup

11. RF Exposure Positions

11.1 Ear and handset reference point

Figure 9.1.1 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 9.1.2 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 9.1.3). 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 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

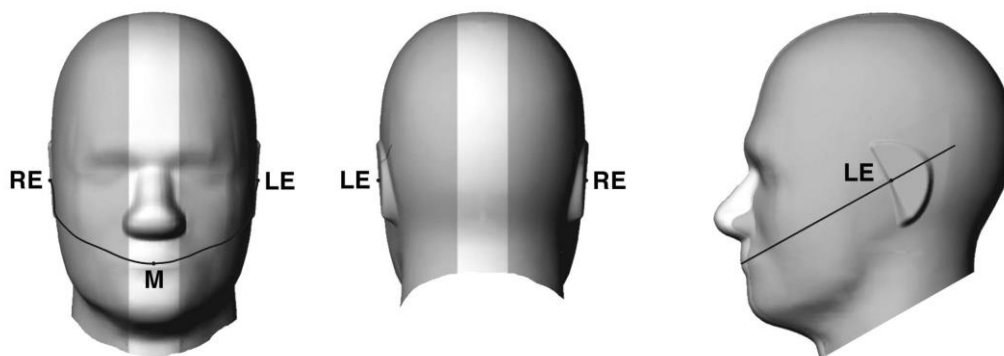


Fig 9.1.1 Front, back, and side views of SAM twin phantom

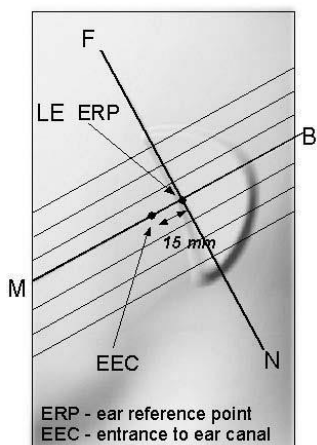


Fig 9.1.2 Close-up side view of phantom showing the ear region.

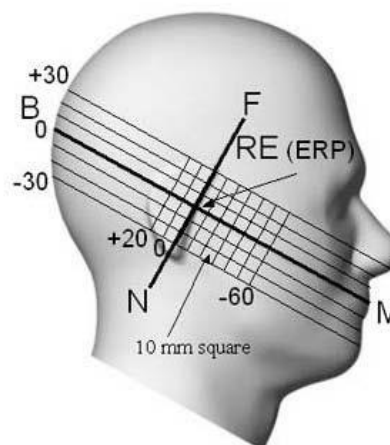


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

11.2 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 9.2.1 and Figure 9.2.2), 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 9.2.1). 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 9.2.2), 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 9.2.3), 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 9.2.3. The actual rotation angles should be documented in the test report.

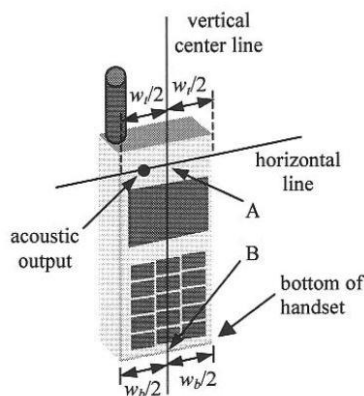


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case"

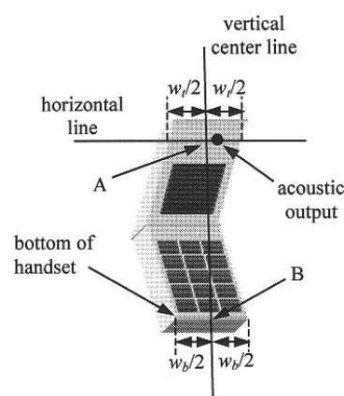


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

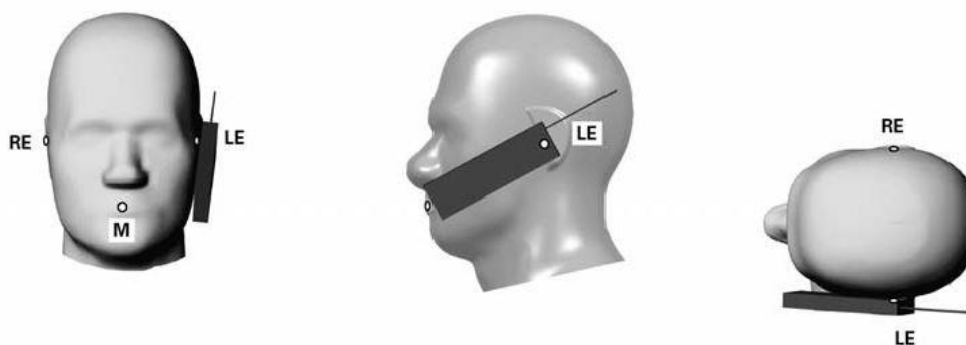


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

11.3 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 9.3.1. 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

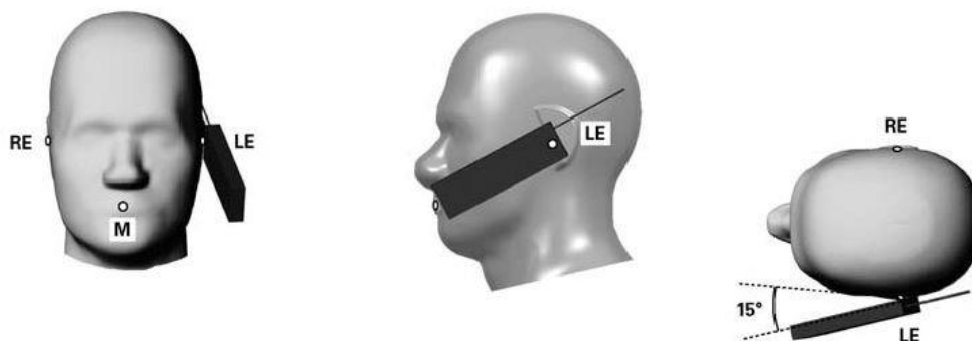


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

11.4 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 9.4). 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 headset attached to the handset.

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

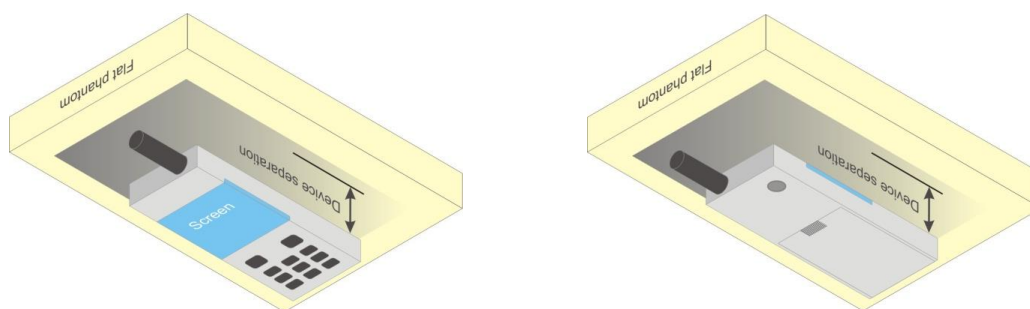


Fig 9.4 Body Worn Position

11.5 Product Specific Exposure

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

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leq 25 \text{ mm}$ 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 $> 1.2 \text{ W/kg}$.

11.6 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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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.

12. UL/DL Carrier aggregation

<LTE DL Carrier Aggregation>

General Note:

1. According to 202410 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. According to 202410 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. 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 UL carrier aggregation>

General Note:

1. The device supports intra-band uplink carrier aggregation with a maximum of two 20MHz 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.
2. The device supports uplink carrier aggregation with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
3. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
4. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
5. Additional SAR measurement for LTE UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

2CC Uplink Carrier Aggregation	
Number	Combination
1	CA_5B
2	CA_7C
3	CA_66B
4	CA_66C
5	CA_38C
6	CA_41C

Ant 0_Index 1/2/3/4/5/6								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.92	24.50
20574	20475	QPSK	1	0	1	49	22.96	24.50
20600	20501	QPSK	1	0	1	49	22.92	24.50

Ant 1_Index 1/4/5/6								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	22.85	24.50
20574	20475	QPSK	1	0	1	49	22.86	24.50
20600	20501	QPSK	1	0	1	49	22.81	24.50

Ant 1_Index 2								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	21.40	22.10
20574	20475	QPSK	1	0	1	49	21.41	22.10
20600	20501	QPSK	1	0	1	49	21.38	22.10

Ant 1_Index 3								
CA_5B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20450	20549	QPSK	1	49	1	0	20.39	20.90
20574	20475	QPSK	1	0	1	49	20.42	20.90
20600	20501	QPSK	1	0	1	49	20.39	20.90

Ant 0_Index 1/2/3								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.68	24.50
21100	20902	QPSK	1	0	1	99	22.56	24.50
21350	21152	QPSK	1	0	1	99	22.61	24.50

Ant 0_Index 4								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	17.53	18.80
21100	20902	QPSK	1	0	1	99	17.52	18.80
21350	21152	QPSK	1	0	1	99	17.47	18.80

Ant 0_Index 5								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.91	21.10
21100	20902	QPSK	1	0	1	99	19.89	21.10
21350	21152	QPSK	1	0	1	99	19.88	21.10

Ant 0_Index 6								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.91	20.40
21100	20902	QPSK	1	0	1	99	19.89	20.40
21350	21152	QPSK	1	0	1	99	19.88	20.40

Ant 2_Index 1								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	23.05	24.50
21100	20902	QPSK	1	0	1	99	23.07	24.50
21350	21152	QPSK	1	0	1	99	23.12	24.50

Ant 2_Index 2								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	23.05	24.50
21100	20902	QPSK	1	0	1	99	23.07	24.50
21350	21152	QPSK	1	0	1	99	23.12	24.50

Ant 2_Index 3								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	23.05	23.30
21100	20902	QPSK	1	0	1	99	23.07	23.30
21350	21152	QPSK	1	0	1	99	23.12	23.30

Ant 2_Index 4/6								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.85	19.90
21100	20902	QPSK	1	0	1	99	19.85	19.90
21350	21152	QPSK	1	0	1	99	19.88	19.90

Ant 2_Index 5								
CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.85	20.60
21100	20902	QPSK	1	0	1	99	19.85	20.60
21350	21152	QPSK	1	0	1	99	19.88	20.60

Ant 0_Index 1/2/3								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.65	24.10
132322	132229	QPSK	1	0	1	24	22.77	24.10
132597	132504	QPSK	1	0	1	24	22.72	24.10

Ant 0_Index 4								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	17.14	18.80
132322	132229	QPSK	1	0	1	24	17.33	18.80
132597	132504	QPSK	1	0	1	24	17.31	18.80

Ant 0_Index 5								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	19.18	20.30
132322	132229	QPSK	1	0	1	24	19.23	20.30
132597	132504	QPSK	1	0	1	24	19.11	20.30

Ant 0_Index 6								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	19.18	19.60
132322	132229	QPSK	1	0	1	24	19.23	19.60
132597	132504	QPSK	1	0	1	24	19.11	19.60

Ant 2_Index 1/2/3								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	22.82	24.50
132322	132229	QPSK	1	0	1	24	22.93	24.50
132597	132504	QPSK	1	0	1	24	22.86	24.50

Ant 2_Index 4/6								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	21.25	21.70
132322	132229	QPSK	1	0	1	24	21.31	21.70
132597	132504	QPSK	1	0	1	24	21.21	21.70

Ant 2_Index 5								
CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	21.25	22.40
132322	132229	QPSK	1	0	1	24	21.31	22.40
132597	132504	QPSK	1	0	1	24	21.21	22.40

Ant 0_Index 1/2/3								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.82	24.10
132322	132124	QPSK	1	0	1	99	22.63	24.10
132572	132374	QPSK	1	0	1	99	22.76	24.10

Ant 0_Index 4								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	17.48	18.80
132322	132124	QPSK	1	0	1	99	17.22	18.80
132572	132374	QPSK	1	0	1	99	17.29	18.80

Ant 0_Index 5								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	19.16	20.30
132322	132124	QPSK	1	0	1	99	19.12	20.30
132572	132374	QPSK	1	0	1	99	19.12	20.30

Ant 0_Index 6								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	19.16	19.60
132322	132124	QPSK	1	0	1	99	19.12	19.60
132572	132374	QPSK	1	0	1	99	19.12	19.60

Ant 2_Index 1/2/3								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	22.99	24.50
132322	132124	QPSK	1	0	1	99	22.85	24.50
132572	132374	QPSK	1	0	1	99	22.82	24.50

Ant 2_Index 4/6								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	21.33	21.70
132322	132124	QPSK	1	0	1	99	21.15	21.70
132572	132374	QPSK	1	0	1	99	21.11	21.70

Ant 2_Index 5								
CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	99	1	0	21.33	22.40
132322	132124	QPSK	1	0	1	99	21.15	22.40
132572	132374	QPSK	1	0	1	99	21.11	22.40

Ant 0_Index 1/2/3								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.51	24.50
38000	37802	QPSK	1	0	1	99	22.63	24.50
38150	37952	QPSK	1	0	1	99	22.53	24.50

Ant 0_Index 4								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	19.46	21.10
38000	37802	QPSK	1	0	1	99	19.62	21.10
38150	37952	QPSK	1	0	1	99	19.55	21.10

Ant 0_Index 5								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.07	23.80
38000	37802	QPSK	1	0	1	99	22.23	23.80
38150	37952	QPSK	1	0	1	99	22.21	23.80

Ant 0_Index 6								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.07	23.10
38000	37802	QPSK	1	0	1	99	22.23	23.10
38150	37952	QPSK	1	0	1	99	22.21	23.10

Ant 2_Index 1/2								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.77	24.50
38000	37802	QPSK	1	0	1	99	22.95	24.50
38150	37952	QPSK	1	0	1	99	22.85	24.50

Ant 2_Index 3								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.77	24.10
38000	37802	QPSK	1	0	1	99	22.95	24.10
38150	37952	QPSK	1	0	1	99	22.85	24.10

Ant 2_Index 4/6								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.77	23.50
38000	37802	QPSK	1	0	1	99	22.95	23.50
38150	37952	QPSK	1	0	1	99	22.85	23.50

Ant 2_Index 5								
CA_38C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
37850	38048	QPSK	1	99	1	0	22.77	24.20
38000	37802	QPSK	1	0	1	99	22.95	24.20
38150	37952	QPSK	1	0	1	99	22.85	24.20

Ant 0_Index 1/2/3								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.51	24.50
40185	39987	QPSK	1	0	1	99	22.52	24.50
40620	40422	QPSK	1	0	1	99	22.71	24.50
41055	40857	QPSK	1	0	1	99	22.51	24.50
41490	41292	QPSK	1	0	1	99	22.64	24.50

Ant 0_Index 4								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.55	21.10
40185	39987	QPSK	1	0	1	99	19.56	21.10
40620	40422	QPSK	1	0	1	99	19.70	21.10
41055	40857	QPSK	1	0	1	99	19.57	21.10
41490	41292	QPSK	1	0	1	99	19.67	21.10

Ant 0_Index 5								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.08	23.80
40185	39987	QPSK	1	0	1	99	22.08	23.80
40620	40422	QPSK	1	0	1	99	22.21	23.80
41055	40857	QPSK	1	0	1	99	22.13	23.80
41490	41292	QPSK	1	0	1	99	22.23	23.80

Ant 0_Index 6								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.08	23.10
40185	39987	QPSK	1	0	1	99	22.08	23.10
40620	40422	QPSK	1	0	1	99	22.21	23.10
41055	40857	QPSK	1	0	1	99	22.13	23.10
41490	41292	QPSK	1	0	1	99	22.23	23.10

Ant 2_Index 1/2								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.72	24.50
40185	39987	QPSK	1	0	1	99	22.80	24.50
40620	40422	QPSK	1	0	1	99	22.89	24.50
41055	40857	QPSK	1	0	1	99	22.79	24.50
41490	41292	QPSK	1	0	1	99	22.93	24.50

Ant 2_Index 3								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.72	24.10
40185	39987	QPSK	1	0	1	99	22.80	24.10
40620	40422	QPSK	1	0	1	99	22.89	24.10
41055	40857	QPSK	1	0	1	99	22.79	24.10
41490	41292	QPSK	1	0	1	99	22.93	24.10

Ant 2_Index 4/6								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.72	23.50
40185	39987	QPSK	1	0	1	99	22.80	23.50
40620	40422	QPSK	1	0	1	99	22.89	23.50
41055	40857	QPSK	1	0	1	99	22.79	23.50
41490	41292	QPSK	1	0	1	99	22.93	23.50

Ant 2_Index 5								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.72	24.20
40185	39987	QPSK	1	0	1	99	22.80	24.20
40620	40422	QPSK	1	0	1	99	22.89	24.20
41055	40857	QPSK	1	0	1	99	22.79	24.20
41490	41292	QPSK	1	0	1	99	22.93	24.20

13. RF Exposure position consideration

Distance of the Antenna to the EUT surface/edge						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 1	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
WWAN Ant 2	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 5	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
WWAN Ant 6	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 7	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WLAN/BT Ant 3 / 4 / 3+4	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
Thread Ant 3	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm
NFC	≤ 25mm	≤ 25mm	> 25mm	> 25mm	≤ 25mm	≤ 25mm

Positions for SAR / 6E PD test						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 1	Yes	Yes	Yes	No	Yes	Yes
WWAN Ant 2	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 5	Yes	Yes	Yes	No	Yes	Yes
WWAN Ant 6	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 7	Yes	Yes	No	Yes	Yes	Yes
WLAN/BT Ant 3 / 4 / 3+4	Yes	Yes	Yes	No	Yes	Yes
Thread Ant 3	Yes	Yes	Yes	No	Yes	Yes
NFC	Yes	Yes	No	No	Yes	Yes

General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm. RF Exposure must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge
- The antenna location is illustrated in the Appendix H.

14. 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 WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. 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 Reported TDD LTE SAR = 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 only when the measured SAR is ≥ 0.8 W/kg.
4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. For NTN, 5GHz and 6GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is > 16 cm.
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 product specific 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, for this device the UMTS B2/B4, LTE B7/25/41 and FR1 n7/25/41/66 Bottom Side is required perform product specific condition.

GSM Note:

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

UMTS 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 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 to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.

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 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 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/B71 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 band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to 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. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
 - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - b. For PI/2 BPSK with 100% RB allocation, SAR test 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.
 - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - d. Smaller bandwidth output power for each RB allocation configuration for this device 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, smaller bandwidth SAR testing is not required for this device
 - e. For 5G FR1 n5/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
 - f. Due to test setup limitations, SAR testing for NR TDD Power class 3 was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. For NR TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission.
 - g. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing

Non-terrestrial Network Note:

1. Due to test setup limitations, SAR testing for Non-terrestrial Network was performed using Factory Test Mode software to establish the connection.
2. The device support NTN NB-IoT and only support, the RF exposure was selected highest SC output power perform.
3. The NTN NB-IoT only support message transmission, therefore, the RF exposure only consider body-worn and phablet condition.

WLAN Note:

1. The SISO mode support only when the Antenna 3 and 4 is transmitting on 802.11b mode, other support MIMO mode.
2. Per KDB 248227 D01v02r02, For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test position when 802.11 DSS mode is active at transmit antenna 3 and 4
3. Per KDB 248227 D01v02r02, for 2.4GHz WLAN MIMO operation for 802.11g/n, when the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured, so 802.11g mode is selected to be tested.
4. Per KDB 248227 D01v02r02, WLAN5.2GHz SAR testing is not required for hotspot and body-worn condition when the WLAN5.3GHz band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WLAN5.2GHz band.
5. 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.
6. 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.
7. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain
8. 4+3(3) represents the test in 2TX operation, while the SAR or power data is associated with antenna 3
9. 4+3(4) represents the test in 2TX operation, while the SAR or power data is associated with antenna 4
10. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

WLAN PD Note:

1. The WiFi 6E PD was performed according 2020 TCB workshop RF Exposure 5G RFX Policies Interim Procedures.
2. First, evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and using highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane).
3. Per Interim Procedures. The power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor
4. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. The WiFi 6E RF Exposure results are used for simultaneous transmission analysis with the other transmitters and total exposure ratio, the analysis can be found in this report appendix F and part1 PD report.
6. Absorbed power density (APD) using a 4cm2 averaging area is reported based on SAR measurements.
7. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
8. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
9. The measurement procedure consists of measuring the PDinc at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPDn fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

NFC Note:

1. NFC mainly operate in hand-held extremity exposure conditions, therefore Standalone 10-g extremity SAR testing is required.
2. NFC SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.

14.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	2	251	848.8	27.23	29.20	1.574	-0.1	0.279	0.439
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Tilted	0mm	2	251	848.8	27.23	29.20	1.574	-0.05	0.183	0.288
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2	251	848.8	27.23	29.20	1.574	0.08	0.350	0.551
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Tilted	0mm	2	251	848.8	27.23	29.20	1.574	0.01	0.179	0.282
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	3	251	848.8	27.23	28.00	1.194	-0.1	0.279	0.333
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Tilted	0mm	3	251	848.8	27.23	28.00	1.194	-0.05	0.183	0.218
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	3	251	848.8	27.23	28.00	1.194	0.08	0.350	0.418
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Tilted	0mm	3	251	848.8	27.23	28.00	1.194	0.01	0.179	0.214
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	2	189	836.4	24.90	26.10	1.318	-0.17	0.691	0.911
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	2	128	824.2	24.86	26.10	1.330	-0.03	0.589	0.784
01	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	2	251	848.8	24.76	26.10	1.361	0.05	0.681	0.927
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	2	189	836.4	24.90	26.10	1.318	0.14	0.623	0.821
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	2	128	824.2	24.86	26.10	1.330	0.04	0.591	0.786
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	2	251	848.8	24.76	26.10	1.361	0.11	0.599	0.816
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Cheek	0mm	2	189	836.4	24.90	26.10	1.318	-0.03	0.479	0.631
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Tilted	0mm	2	189	836.4	24.90	26.10	1.318	0.18	0.505	0.666
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Cheek	0mm	3	189	836.4	24.90	24.90	1.000	-0.17	0.703	0.703
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Tilted	0mm	3	189	836.4	24.90	24.90	1.000	0.14	0.623	0.623
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Cheek	0mm	3	189	836.4	24.90	24.90	1.000	-0.03	0.479	0.479
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Tilted	0mm	3	189	836.4	24.90	24.90	1.000	0.18	0.505	0.505
02	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Cheek	0mm	2/3	661	1880	26.34	27.50	1.306	-0.08	0.452	0.590
	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Tilted	0mm	2/3	661	1880	26.34	27.50	1.306	0.08	0.194	0.253
	GSM1900_Ant 2	GPRS (4 Tx slots)	Left Cheek	0mm	2/3	661	1880	26.34	27.50	1.306	0.16	0.189	0.247
	GSM1900_Ant 2	GPRS (4 Tx slots)	Left Tilted	0mm	2/3	661	1880	26.34	27.50	1.306	0.01	0.213	0.278
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Cheek	0mm	2/3	661	1880	25.97	26.60	1.156	-0.14	0.023	0.027
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Tilted	0mm	2/3	661	1880	25.97	26.60	1.156	0.03	0.021	0.024
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Cheek	0mm	2/3	661	1880	25.97	26.60	1.156	-0.07	0.041	0.047
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Tilted	0mm	2/3	661	1880	25.97	26.60	1.156	-0.08	0.001	0.001

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
03	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2/3	9400	1880	24.16	25.20	1.271	-0.11	0.549	0.698
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Tilted	0mm	2/3	9400	1880	24.16	25.20	1.271	0.08	0.190	0.241
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Cheek	0mm	2/3	9400	1880	24.16	25.20	1.271	-0.07	0.282	0.358
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Tilted	0mm	2/3	9400	1880	24.16	25.20	1.271	0.01	0.160	0.203
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	2/3	9400	1880	23.87	24.30	1.104	0	0.040	0.044
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	2/3	9400	1880	23.87	24.30	1.104	0.03	0.001	0.001
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	9400	1880	23.87	24.30	1.104	0.09	0.070	0.077
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	2/3	9400	1880	23.87	24.30	1.104	-0.08	0.001	0.001
04	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	2/3	1413	1732.6	24.11	25.20	1.285	0.1	0.529	0.680
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Tilted	0mm	2/3	1413	1732.6	24.11	25.20	1.285	0.1	0.186	0.239
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Cheek	0mm	2/3	1413	1732.6	24.11	25.20	1.285	0.01	0.272	0.350
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Tilted	0mm	2/3	1413	1732.6	24.11	25.20	1.285	-0.18	0.302	0.388
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	2/3	1413	1732.6	23.89	24.30	1.099	-0.07	0.081	0.089
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	2/3	1413	1732.6	23.89	24.30	1.099	0.1	0.044	0.048
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	1413	1732.6	23.89	24.30	1.099	-0.02	0.042	0.046
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	2/3	1413	1732.6	23.89	24.30	1.099	0.12	0.022	0.024
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Cheek	0mm	2/3	4182	836.4	24.58	25.50	1.236	-0.06	0.243	0.300
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Tilted	0mm	2/3	4182	836.4	24.58	25.50	1.236	0.08	0.133	0.164
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Cheek	0mm	2/3	4182	836.4	24.58	25.50	1.236	-0.18	0.353	0.436
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Tilted	0mm	2/3	4182	836.4	24.58	25.50	1.236	0.01	0.164	0.203
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4182	836.4	21.45	22.00	1.135	-0.17	0.794	0.901
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4132	826.4	21.44	22.00	1.138	0.04	0.762	0.867
05	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4233	846.6	21.33	22.00	1.167	0.02	0.805	0.939
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	2	4182	836.4	21.45	22.00	1.135	-0.01	0.688	0.781
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	2	4182	836.4	21.45	22.00	1.135	0	0.548	0.622
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	2	4182	836.4	21.45	22.00	1.135	0.06	0.512	0.581
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	3	4182	836.4	20.70	20.80	1.023	0.11	0.692	0.708
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	3	4182	836.4	20.70	20.80	1.023	0.01	0.557	0.570
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	3	4182	836.4	20.70	20.80	1.023	0.03	0.444	0.454
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	3	4182	836.4	20.70	20.80	1.023	-0.08	0.415	0.425
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	3	4182	836.4	20.70	20.80	1.023	0	0.660	0.675



FCC SAR TEST REPORT

Report No. : FA4N0917D

<LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
06	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	21100	2535	23.27	24.50	1.327			-0.11	0.691	0.917
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	20850	2510	23.24	24.50	1.337			-0.1	0.694	0.928
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	21350	2560	23.26	24.50	1.330			-0.12	0.672	0.894
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2	21100	2535	23.15	24.00	1.216			0.03	0.675	0.821
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2	20850	2510	23.14	24.00	1.219			-0.16	0.677	0.825
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2	21350	2560	23.11	24.00	1.227			-0.02	0.672	0.825
	LTE Band 7_Ant 2	20M	QPSK	100	0	Right Cheek	0mm	2	21100	2535	23.13	24.00	1.222			0.15	0.677	0.827
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	2	21100	2535	23.27	24.50	1.327			-0.09	0.137	0.182
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	2	21100	2535	23.15	24.00	1.216			0.11	0.136	0.165
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	2	21100	2535	23.27	24.50	1.327			-0.05	0.347	0.461
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	2	21100	2535	23.15	24.00	1.216			-0.05	0.341	0.415
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	2	21100	2535	23.27	24.50	1.327			-0.08	0.208	0.276
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	2	21100	2535	23.15	24.00	1.216			0.16	0.206	0.251
	CA_7C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	21350	2560	23.12	24.50	1.374			0.03	0.666	0.915
	CA_7C_Ant 2	20M	QPSK	1	99	Right Cheek	0mm	2	20850	2510	23.05	24.50	1.396			0.09	0.612	0.855
	CA_7C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	21100	2535	23.07	24.50	1.390			0.08	0.631	0.877
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	21100	2535	23.27	23.30	1.007			-0.11	0.702	0.707
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	3	21100	2535	23.15	23.30	1.035			0.03	0.675	0.699
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	3	21100	2535	23.27	23.30	1.007			-0.09	0.137	0.138
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	3	21100	2535	23.15	23.30	1.035			0.11	0.136	0.141
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	3	21100	2535	23.27	23.30	1.007			-0.05	0.347	0.349
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	3	21100	2535	23.15	23.30	1.035			-0.05	0.341	0.353
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	3	21100	2535	23.27	23.30	1.007			-0.08	0.208	0.209
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	3	21100	2535	23.15	23.30	1.035			0.16	0.206	0.213
	CA_7C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	21350	2560	23.12	23.30	1.042			0.03	0.666	0.694
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2/3	21100	2535	23.74	24.60	1.219			-0.14	0.074	0.090
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	2/3	21100	2535	22.71	23.60	1.227			0.17	0.047	0.058
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	2/3	21100	2535	23.74	24.60	1.219			-0.05	0.034	0.041
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	2/3	21100	2535	22.71	23.60	1.227			0.01	0.001	0.001
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	21100	2535	23.74	24.60	1.219			0.12	0.139	0.169
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	2/3	21100	2535	22.71	23.60	1.227			0.1	0.103	0.126
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	2/3	21100	2535	23.74	24.60	1.219			-0.17	0.042	0.051
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	2/3	21100	2535	22.71	23.60	1.227			0.04	0.032	0.039
	CA_7C_Ant 0	20M	QPSK	1	99	Left Cheek	0mm	2/3	20850	2510	22.68	24.50	1.521			0.01	0.105	0.160
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	2/3	23095	707.5	24.69	25.10	1.099			-0.05	0.213	0.234
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	2/3	23095	707.5	22.43	22.80	1.089			0.08	0.126	0.137
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	2/3	23095	707.5	24.69	25.10	1.099			0.01	0.137	0.151
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	2/3	23095	707.5	22.43	22.80	1.089			0.03	0.083	0.090
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	2/3	23095	707.5	24.69	25.10	1.099			-0.01	0.312	0.343
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	2/3	23095	707.5	22.43	22.80	1.089			-0.08	0.189	0.206
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	2/3	23095	707.5	24.69	25.10	1.099			-0.08	0.183	0.201
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	2/3	23095	707.5	22.43	22.80	1.089			0.1	0.115	0.125
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	2	23095	707.5	21.48	23.00	1.419			0.01	0.619	0.878
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	2	23095	707.5	21.47	22.40	1.239			-0.17	0.570	0.706
	LTE Band 12_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	2	23095	707.5	21.44	22.40	1.247			-0.03	0.554	0.691
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	2	23095	707.5	21.48	23.00	1.419			0.14	0.600	0.851
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	2	23095	707.5	21.47	22.40	1.239			0.11	0.582	0.721
	LTE Band 12_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	2	23095	707.5	21.44	22.40	1.247			-0.05	0.580	0.723
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	2	23095	707.5	21.48	23.00	1.419			-0.01	0.301	0.427
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	2	23095	707.5	21.47	22.40	1.239			0.14	0.295	0.365
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	2	23095	707.5	21.48	23.00	1.419			-0.17	0.299	0.424
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	2	23095	707.5	21.47	22.40	1.239			0.17	0.306	0.379
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	3	23095	707.5	21.48	22.10	1.153			0.01	0.619	0.714



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	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	3	23095	707.5	21.47	22.10	1.156			-0.17	0.570	0.659
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	3	23095	707.5	21.48	22.10	1.153			0.14	0.600	0.692
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	3	23095	707.5	21.47	22.10	1.156			0.11	0.582	0.673
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	3	23095	707.5	21.48	22.10	1.153			-0.01	0.301	0.347
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	3	23095	707.5	21.47	22.10	1.156			0.14	0.295	0.341
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	3	23095	707.5	21.48	22.10	1.153			-0.17	0.299	0.345
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	3	23095	707.5	21.47	22.10	1.156			0.17	0.306	0.354
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	2/3	23230	782	24.59	25.10	1.125			0.01	0.278	0.313
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	2/3	23230	782	22.32	22.80	1.117			-0.18	0.169	0.189
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	2/3	23230	782	24.59	25.10	1.125			0.1	0.161	0.181
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	2/3	23230	782	22.32	22.80	1.117			0.12	0.097	0.108
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	2/3	23230	782	24.59	25.10	1.125			0.01	0.395	0.444
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	2/3	23230	782	22.32	22.80	1.117			0.08	0.252	0.281
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	2/3	23230	782	24.59	25.10	1.125			-0.17	0.209	0.235
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	2/3	23230	782	22.32	22.80	1.117			-0.03	0.129	0.144
08	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	2	23230	782	21.62	22.20	1.143			0.01	0.816	0.933
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	2	23230	782	21.58	22.20	1.153			0.01	0.807	0.931
	LTE Band 13_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	2	23230	782	21.60	22.20	1.148			0.03	0.810	0.930
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	2	23230	782	21.62	22.20	1.143			-0.08	0.760	0.869
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	2	23230	782	21.58	22.20	1.153			-0.08	0.770	0.888
	LTE Band 13_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	2	23230	782	21.60	22.20	1.148			0.1	0.751	0.862
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	2	23230	782	21.62	22.20	1.143			-0.02	0.514	0.587
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	2	23230	782	21.58	22.20	1.153			-0.18	0.505	0.582
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	2	23230	782	21.62	22.20	1.143			0.1	0.552	0.631
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	2	23230	782	21.58	22.20	1.153			0.12	0.543	0.626
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	3	23230	782	20.55	21.00	1.109			-0.08	0.625	0.693
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	3	23230	782	20.52	21.00	1.117			-0.18	0.596	0.666
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	3	23230	782	20.55	21.00	1.109			0.12	0.560	0.621
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	3	23230	782	20.52	21.00	1.117			0.08	0.568	0.634
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	3	23230	782	20.55	21.00	1.109			-0.17	0.381	0.423
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	3	23230	782	20.52	21.00	1.117			-0.03	0.376	0.420
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	3	23230	782	20.55	21.00	1.109			0.14	0.406	0.450
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	3	23230	782	20.52	21.00	1.117			0.11	0.400	0.447
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	2/3	23330	793	24.48	25.10	1.153			-0.1	0.258	0.298
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	2/3	23330	793	23.48	24.10	1.153			0.14	0.207	0.239
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	2/3	23330	793	24.48	25.10	1.153			0.11	0.158	0.182
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	2/3	23330	793	23.48	24.10	1.153			-0.05	0.126	0.145
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	2/3	23330	793	24.48	25.10	1.153			-0.01	0.347	0.400
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	2/3	23330	793	23.48	24.10	1.153			0.18	0.270	0.311
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	2/3	23330	793	24.48	25.10	1.153			0.14	0.182	0.210
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	2/3	23330	793	23.48	24.10	1.153			-0.17	0.149	0.172
09	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	2	23330	793	21.81	22.40	1.146			0.02	0.814	0.932
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	2	23330	793	21.84	22.40	1.138			0.08	0.807	0.918
	LTE Band 14_Ant 1	10M	QPSK	50	0	Right Cheek	0mm	2	23330	793	21.81	22.40	1.146			0.01	0.790	0.905
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	2	23330	793	21.81	22.40	1.146			0.03	0.726	0.832
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	2	23330	793	21.84	22.40	1.138			-0.08	0.717	0.816
	LTE Band 14_Ant 1	10M	QPSK	50	0	Right Tilted	0mm	2	23330	793	21.81	22.40	1.146			-0.08	0.707	0.810
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	2	23330	793	21.81	22.40	1.146			-0.04	0.493	0.565
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	2	23330	793	21.84	22.40	1.138			0.1	0.483	0.549
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	2	23330	793	21.81	22.40	1.146			-0.18	0.503	0.576
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	2	23330	793	21.84	22.40	1.138			0.1	0.502	0.571
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	3	23330	793	20.73	21.20	1.114			-0.04	0.608	0.677
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Cheek	0mm	3	23330	793	20.77	21.20	1.104			0.14	0.585	0.646
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Tilted	0mm	3	23330	793	20.73	21.20	1.114			0.17	0.524	0.584
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Tilted	0mm	3	23330	793	20.77	21.20	1.104			-0.05	0.519	0.573
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	3	23330	793	20.73	21.20	1.114			0.01	0.355	0.396
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Cheek	0mm	3	23330	793	20.77	21.20	1.104			0.1	0.350	0.386



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	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Tilted	0mm	3	23330	793	20.73	21.20	1.114			-0.17	0.363	0.404
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Tilted	0mm	3	23330	793	20.77	21.20	1.104			0.04	0.363	0.401
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2/3	26340	1880	24.03	25.00	1.250			-0.09	0.507	0.634
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2/3	26340	1880	23.02	24.00	1.253			0.1	0.404	0.506
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	2/3	26340	1880	24.03	25.00	1.250			0.12	0.199	0.249
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	2/3	26340	1880	23.02	24.00	1.253			0.08	0.147	0.184
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	2/3	26340	1880	24.03	25.00	1.250			0	0.184	0.230
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	2/3	26340	1880	23.02	24.00	1.253			-0.17	0.141	0.177
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	2/3	26340	1880	24.03	25.00	1.250			-0.03	0.120	0.150
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	2/3	26340	1880	23.02	24.00	1.253			0.14	0.083	0.104
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2/3	26340	1880	23.49	24.10	1.151			-0.08	0.039	0.045
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	2/3	26340	1880	22.50	23.10	1.148			-0.03	0.030	0.034
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	2/3	26340	1880	23.49	24.10	1.151			0.14	0.001	0.001
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	2/3	26340	1880	22.50	23.10	1.148			0.11	0.001	0.001
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	26340	1880	23.49	24.10	1.151			0.13	0.057	0.066
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	2/3	26340	1880	22.50	23.10	1.148			-0.05	0.045	0.052
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	2/3	26340	1880	23.49	24.10	1.151			0.18	0.001	0.001
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	2/3	26340	1880	22.50	23.10	1.148			0.14	0.001	0.001
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	2	26340	1880	15.28	16.80	1.419			0.08	0.544	0.772
	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	26340	1880	15.24	16.80	1.432			-0.02	0.566	0.811
	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	26140	1860	15.23	16.80	1.435			0.01	0.513	0.736
	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	26590	1905	15.16	16.80	1.459			0.03	0.547	0.798
	LTE Band 25_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	2	26340	1880	15.24	16.80	1.432			-0.08	0.540	0.773
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	26340	1880	15.28	16.80	1.419			-0.08	0.617	0.876
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	26140	1860	15.27	16.80	1.422			0.1	0.560	0.797
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	26590	1905	15.14	16.80	1.466			-0.18	0.662	0.970
	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	26340	1880	15.24	16.80	1.432			-0.1	0.630	0.902
	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	26140	1860	15.23	16.80	1.435			0.1	0.577	0.828
10	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	26590	1905	15.16	16.80	1.459			0.05	0.677	0.988
	LTE Band 25_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	2	26340	1880	15.24	16.80	1.432			0.12	0.611	0.875
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	2	26340	1880	15.28	16.80	1.419			0.08	0.220	0.312
	LTE Band 25_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	2	26340	1880	15.24	16.80	1.432			-0.03	0.225	0.322
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	2	26340	1880	15.28	16.80	1.419			-0.17	0.295	0.419
	LTE Band 25_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	2	26340	1880	15.24	16.80	1.432			-0.03	0.310	0.444
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	3	26340	1880	15.28	16.10	1.208			0.08	0.544	0.657
	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	3	26340	1880	15.24	16.10	1.219			-0.02	0.566	0.690
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	3	26340	1880	15.28	16.10	1.208			-0.08	0.617	0.745
	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	3	26340	1880	15.24	16.10	1.219			-0.1	0.630	0.768
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	3	26340	1880	15.28	16.10	1.208			0.08	0.220	0.266
	LTE Band 25_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	3	26340	1880	15.24	16.10	1.219			-0.03	0.225	0.274
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	3	26340	1880	15.28	16.10	1.208			-0.17	0.295	0.356
	LTE Band 25_Ant 1	20M	QPSK	50	0	Left Tilted	0mm	3	26340	1880	15.24	16.10	1.219			-0.03	0.310	0.378
	LTE Band 25_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	2	26140	1860	17.66	18.2	1.132			-0.05	0.136	0.154
	LTE Band 25_Ant 5	20M	QPSK	50	0	Right Cheek	0mm	2	26140	1860	17.58	18.2	1.153			0.05	0.273	0.315
	LTE Band 25_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	2	26140	1860	17.66	18.2	1.132			0.01	0.163	0.185
	LTE Band 25_Ant 5	20M	QPSK	50	0	Right Tilted	0mm	2	26140	1860	17.58	18.2	1.153			0.1	0.155	0.179
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	2	26140	1860	17.66	18.2	1.132			-0.17	0.797	0.903
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	2	26340	1880	17.53	18.2	1.167			0.04	0.735	0.858
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	2	26590	1905	17.42	18.2	1.197			-0.01	0.631	0.755
	LTE Band 25_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	26140	1860	17.58	18.2	1.153			0.01	0.789	0.910
	LTE Band 25_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	26340	1880	17.49	18.2	1.178			-0.08	0.735	0.866
	LTE Band 25_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	2	26590	1905	17.43	18.2	1.194			0.05	0.631	0.753
	LTE Band 25_Ant 5	20M	QPSK	100	0	Left Cheek	0mm	2	26140	1860	17.52	18.2	1.169			0.06	0.770	0.901
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	2	26140	1860	17.66	18.2	1.132			-0.09	0.272	0.308
	LTE Band 25_Ant 5	20M	QPSK	50	0	Left Tilted	0mm	2	26140	1860	17.58	18.2	1.153			-0.08	0.274	0.316
	LTE Band 25_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	3	26140	1860	16.6	17	1.096			-0.08	0.092	0.101
	LTE Band 25_Ant 5	20M	QPSK	50	0	Right Cheek	0mm	3	26140	1860	16.5	17	1.122			0.05	0.183	0.205



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	LTE Band 25_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	3	26140	1860	16.6	17	1.096			0.06	0.110	0.121
	LTE Band 25_Ant 5	20M	QPSK	50	0	Right Tilted	0mm	3	26140	1860	16.5	17	1.122			-0.09	0.104	0.117
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	3	26140	1860	16.6	17	1.096			-0.04	0.565	0.620
	LTE Band 25_Ant 5	20M	QPSK	50	0	Left Cheek	0mm	3	26140	1860	16.5	17	1.122			0.13	0.530	0.595
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	3	26140	1860	16.6	17	1.096			0.12	0.183	0.201
	LTE Band 25_Ant 5	20M	QPSK	50	0	Left Tilted	0mm	3	26140	1860	16.5	17	1.122			0.03	0.184	0.206
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Cheek	0mm	2/3	26865	831.5	24.35	25.10	1.189			0.08	0.236	0.280
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Cheek	0mm	2/3	26865	831.5	23.36	24.10	1.186			0.14	0.201	0.238
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Tilted	0mm	2/3	26865	831.5	24.35	25.10	1.189			0.11	0.197	0.234
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Tilted	0mm	2/3	26865	831.5	23.36	24.10	1.186			-0.05	0.153	0.181
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Cheek	0mm	2/3	26865	831.5	24.35	25.10	1.189			-0.04	0.341	0.405
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Cheek	0mm	2/3	26865	831.5	23.36	24.10	1.186			0.18	0.280	0.332
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Tilted	0mm	2/3	26865	831.5	24.35	25.10	1.189			0.14	0.190	0.226
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Tilted	0mm	2/3	26865	831.5	23.36	24.10	1.186			-0.17	0.150	0.178
	CA_5B_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	2/3	20574	841.4	22.96	24.50	1.426			0.09	0.240	0.342
11	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Cheek	0mm	2	26865	831.5	21.59	22.10	1.125			0.03	0.783	0.881
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Cheek	0mm	2	26865	831.5	21.56	22.10	1.132			0.08	0.761	0.862
	LTE Band 26_Ant 1	15M	QPSK	75	0	Right Cheek	0mm	2	26865	831.5	21.54	22.10	1.138			0.01	0.771	0.877
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Tilted	0mm	2	26865	831.5	21.59	22.10	1.125			0.03	0.681	0.766
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Tilted	0mm	2	26865	831.5	21.56	22.10	1.132			-0.08	0.689	0.780
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	2	26865	831.5	21.59	22.10	1.125			-0.01	0.493	0.554
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Cheek	0mm	2	26865	831.5	21.56	22.10	1.132			0.1	0.485	0.549
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Tilted	0mm	2	26865	831.5	21.59	22.10	1.125			-0.18	0.506	0.569
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Tilted	0mm	2	26865	831.5	21.56	22.10	1.132			0.1	0.490	0.555
	CA_5B_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	2	20574	841.4	21.41	22.10	1.172			0.06	0.711	0.833
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Cheek	0mm	3	26865	831.5	20.57	20.90	1.079			0	0.661	0.713
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Cheek	0mm	3	26865	831.5	20.46	20.90	1.107			-0.15	0.561	0.621
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Tilted	0mm	3	26865	831.5	20.57	20.90	1.079			0.11	0.511	0.551
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Tilted	0mm	3	26865	831.5	20.46	20.90	1.107			-0.08	0.508	0.562
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	3	26865	831.5	20.57	20.90	1.079			-0.17	0.370	0.399
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Cheek	0mm	3	26865	831.5	20.46	20.90	1.107			-0.08	0.357	0.395
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Tilted	0mm	3	26865	831.5	20.57	20.90	1.079			-0.04	0.380	0.410
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Tilted	0mm	3	26865	831.5	20.46	20.90	1.107			-0.08	0.361	0.399
	CA_5B_Ant 1	10M	QPSK	1	0	Right Cheek	0mm	3	20574	841.4	20.42	20.90	1.117			0.09	0.611	0.682
12	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Cheek	0mm	2	27710	2310	21.22	22.50	1.343			0.01	0.347	0.466
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Cheek	0mm	2	27710	2310	21.18	22.50	1.355			0.08	0.338	0.458
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Tilted	0mm	2	27710	2310	21.22	22.50	1.343			0.01	0.108	0.145
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Tilted	0mm	2	27710	2310	21.18	22.50	1.355			0.03	0.103	0.140
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Cheek	0mm	2	27710	2310	21.22	22.50	1.343			-0.08	0.155	0.208
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Cheek	0mm	2	27710	2310	21.18	22.50	1.355			-0.08	0.152	0.206
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Tilted	0mm	2	27710	2310	21.22	22.50	1.343			0.1	0.147	0.197
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Tilted	0mm	2	27710	2310	21.18	22.50	1.355			-0.18	0.146	0.198
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Cheek	0mm	3	27710	2310	21.22	21.80	1.143			0.01	0.347	0.397
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Cheek	0mm	3	27710	2310	21.18	21.80	1.153			0.08	0.338	0.390
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Tilted	0mm	3	27710	2310	21.22	21.80	1.143			0.01	0.108	0.123
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Tilted	0mm	3	27710	2310	21.18	21.80	1.153			0.03	0.103	0.119
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Cheek	0mm	3	27710	2310	21.22	21.80	1.143			-0.08	0.155	0.177
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Cheek	0mm	3	27710	2310	21.18	21.80	1.153			-0.08	0.152	0.175
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Tilted	0mm	3	27710	2310	21.22	21.80	1.143			0.1	0.147	0.168
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Tilted	0mm	3	27710	2310	21.18	21.80	1.153			-0.18	0.146	0.168
	LTE Band 30_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	2/3	27710	2310	20.10	21.80	1.479			-0.16	0.050	0.074
	LTE Band 30_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	2/3	27710	2310	20.11	21.80	1.476			0.08	0.039	0.058
	LTE Band 30_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	2/3	27710	2310	20.10	21.80	1.479			0.01	0.032	0.047
	LTE Band 30_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	2/3	27710	2310	20.11	21.80	1.476			0.03	0.031	0.046
	LTE Band 30_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	2/3	27710	2310	20.10	21.80	1.479			-0.12	0.049	0.072
	LTE Band 30_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	2/3	27710	2310	20.11	21.80	1.476			-0.08	0.041	0.061
	LTE Band 30_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	2/3	27710	2310	20.10	21.80	1.479			0.1	0.039	0.058



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	LTE Band 30_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	2/3	27710	2310	20.11	21.80	1.476			-0.18	0.031	0.046
13	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	40620	2593	24.14	25.00	1.219	62.9	1.006	-0.04	0.713	0.874
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	39750	2506	24.12	25.00	1.225	62.9	1.006	0.08	0.578	0.712
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	40185	2549.5	24.00	25.00	1.259	62.9	1.006	-0.17	0.562	0.712
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41055	2636.5	23.98	25.00	1.265	62.9	1.006	-0.03	0.637	0.810
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41490	2680	24.13	25.00	1.222	62.9	1.006	0.14	0.609	0.749
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2	40620	2593	23.04	24.00	1.247	62.9	1.006	0.11	0.522	0.655
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2	39750	2506	23.00	24.00	1.259	62.9	1.006	0.18	0.472	0.598
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2	40185	2549.5	22.93	24.00	1.279	62.9	1.006	0.14	0.447	0.575
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2	41055	2636.5	23.00	24.00	1.259	62.9	1.006	-0.17	0.488	0.618
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2	41490	2680	23.02	24.00	1.253	62.9	1.006	0.17	0.470	0.593
	LTE Band 41_Ant 2	20M	QPSK	100	0	Right Cheek	0mm	2	40620	2593	22.99	24.00	1.262	62.9	1.006	-0.05	0.459	0.583
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	2	40620	2593	24.14	25.00	1.219	62.9	1.006	-0.05	0.154	0.189
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	2	40620	2593	23.04	24.00	1.247	62.9	1.006	0.18	0.131	0.164
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	2	40620	2593	24.14	25.00	1.219	62.9	1.006	0.02	0.296	0.363
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	2	40620	2593	23.04	24.00	1.247	62.9	1.006	0.06	0.236	0.296
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	2	40620	2593	24.14	25.00	1.219	62.9	1.006	-0.09	0.243	0.298
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	2	40620	2593	23.04	24.00	1.247	62.9	1.006	-0.08	0.198	0.248
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	40620	2593	25.96	26.90	1.242	42.9	1.009	0.01	0.692	0.867
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	39750	2506	25.85	26.90	1.274	42.9	1.009	-0.17	0.513	0.659
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	40185	2549.5	25.87	26.90	1.268	42.9	1.009	0.04	0.499	0.638
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41055	2636.5	25.86	26.90	1.271	42.9	1.009	-0.01	0.565	0.724
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41490	2680	25.95	26.90	1.245	42.9	1.009	-0.08	0.541	0.679
	CA_41C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41490	2680	22.93	24.50	1.435	62.9	1.006	0.08	0.487	0.703
	CA_41C_Ant 2	20M	QPSK	1	99	Right Cheek	0mm	2	39750	2506	22.72	24.50	1.507	62.9	1.006	0.03	0.459	0.696
	CA_41C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	40185	2549.5	22.8	24.50	1.479	62.9	1.006	-0.08	0.439	0.653
	CA_41C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	40620	2593	22.89	24.50	1.449	62.9	1.006	-0.08	0.485	0.707
	CA_41C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2	41055	2636.5	22.79	24.50	1.483	62.9	1.006	0.1	0.490	0.731
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	40620	2593	23.20	24.10	1.230	62.9	1.006	-0.18	0.542	0.671
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	39750	2506	23.10	24.10	1.259	62.9	1.006	0.03	0.431	0.546
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	40185	2549.5	23.10	24.10	1.259	62.9	1.006	-0.08	0.431	0.546
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41055	2636.5	23.16	24.10	1.242	62.9	1.006	-0.08	0.498	0.622
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41490	2680	23.19	24.10	1.233	62.9	1.006	0.1	0.463	0.574
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	3	40620	2593	22.95	24.00	1.274	62.9	1.006	-0.18	0.482	0.618
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	3	39750	2506	22.90	24.00	1.288	62.9	1.006	0.12	0.435	0.564
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	3	40185	2549.5	22.84	24.00	1.306	62.9	1.006	0.08	0.413	0.543
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	3	41055	2636.5	22.94	24.00	1.276	62.9	1.006	-0.17	0.454	0.583
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	3	41490	2680	22.94	24.00	1.276	62.9	1.006	-0.03	0.435	0.559
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	3	40620	2593	23.20	24.10	1.230	62.9	1.006	0.11	0.117	0.145
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	3	40620	2593	22.95	24.00	1.274	62.9	1.006	-0.05	0.121	0.155
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	3	40620	2593	23.20	24.10	1.230	62.9	1.006	0.18	0.225	0.278
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	3	40620	2593	22.95	24.00	1.274	62.9	1.006	0.14	0.218	0.279
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	3	40620	2593	23.20	24.10	1.230	62.9	1.006	-0.17	0.185	0.229
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	3	40620	2593	22.95	24.00	1.274	62.9	1.006	0.17	0.183	0.234
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	40620	2593	24.91	25.70	1.199	42.9	1.009	-0.05	0.498	0.603
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	39750	2506	24.77	25.70	1.239	42.9	1.009	0.1	0.378	0.472
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	40185	2549.5	24.79	25.70	1.233	42.9	1.009	-0.17	0.369	0.459
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41055	2636.5	24.84	25.70	1.219	42.9	1.009	0.04	0.422	0.519
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41490	2680	24.90	25.70	1.202	42.9	1.009	-0.01	0.402	0.488
	CA_41C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41490	2680	22.93	24.10	1.309	62.9	1.006	0.08	0.487	0.641
	CA_41C_Ant 2	20M	QPSK	1	99	Right Cheek	0mm	3	39750	2506	22.72	24.10	1.374	62.9	1.006	0.03	0.459	0.634
	CA_41C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	40185	2549.5	22.8	24.10	1.349	62.9	1.006	-0.08	0.439	0.596
	CA_41C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	40620	2593	22.89	24.10	1.321	62.9	1.006	-0.08	0.485	0.645
	CA_41C_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	3	41055	2636.5	22.79	24.10	1.352	62.9	1.006	0.1	0.490	0.666
	LTE Band 41_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2/3	40620	2593	23.55	24.60	1.274	62.9	1.006	0.18	0.036	0.046
	LTE Band 41_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	2/3	40620	2593	22.53	23.60	1.279	62.9	1.006	0.05	0.001	0.001
	LTE Band 41_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	2/3	40620	2593	23.55	24.60	1.274	62.9	1.006	0.06	0.040	0.051



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	LTE Band 41_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	2/3	40620	2593	22.53	23.60	1.279	62.9	1.006	-0.09	0.001	0.001
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	40620	2593	23.55	24.60	1.274	62.9	1.006	-0.1	0.103	0.132
	LTE Band 41_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	2/3	40620	2593	22.53	23.60	1.279	62.9	1.006	-0.08	0.072	0.093
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	2/3	40620	2593	23.55	24.60	1.274	62.9	1.006	0.13	0.001	0.001
	LTE Band 41_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	2/3	40620	2593	22.53	23.60	1.279	62.9	1.006	0.12	0.001	0.001
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	40620	2593	25.42	26.50	1.282	42.9	1.009	0.03	0.100	0.129
	CA_41C_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	40620	2593	22.71	24.60	1.545	62.9	1.006	0.09	0.081	0.126
	LTE Band 48_Ant 6	20M	QPSK	1	0	Right Cheek	0mm	2/3	55830	3609	20.00	20.90	1.230	62.9	1.006	0.14	0.061	0.075
	LTE Band 48_Ant 6	20M	QPSK	50	0	Right Cheek	0mm	2/3	55830	3609	20.01	20.90	1.227	62.9	1.006	0.08	0.041	0.051
	LTE Band 48_Ant 6	20M	QPSK	1	0	Right Tilted	0mm	2/3	55830	3609	20.00	20.90	1.230	62.9	1.006	0.01	0.082	0.101
	LTE Band 48_Ant 6	20M	QPSK	50	0	Right Tilted	0mm	2/3	55830	3609	20.01	20.90	1.227	62.9	1.006	0.03	0.048	0.059
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	2/3	55830	3609	20.00	20.90	1.230	62.9	1.006	0.19	0.098	0.121
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Cheek	0mm	2/3	55830	3609	20.01	20.90	1.227	62.9	1.006	-0.08	0.054	0.067
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Tilted	0mm	2/3	55830	3609	20.00	20.90	1.230	62.9	1.006	-0.08	0.049	0.061
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Tilted	0mm	2/3	55830	3609	20.01	20.90	1.227	62.9	1.006	0.1	0.030	0.037
14	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Cheek	0mm	2/3	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.11	0.092	0.125
	LTE Band 48_Ant 7	20M	QPSK	50	0	Right Cheek	0mm	2/3	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.18	0.054	0.073
	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Tilted	0mm	2/3	56150	3641	19.69	21.00	1.352	62.9	1.006	0.1	0.048	0.065
	LTE Band 48_Ant 7	20M	QPSK	50	0	Right Tilted	0mm	2/3	56150	3641	19.69	21.00	1.352	62.9	1.006	0.12	0.030	0.041
	LTE Band 48_Ant 7	20M	QPSK	1	0	Left Cheek	0mm	2/3	56150	3641	19.69	21.00	1.352	62.9	1.006	0.13	0.050	0.068
	LTE Band 48_Ant 7	20M	QPSK	50	0	Left Cheek	0mm	2/3	56150	3641	19.69	21.00	1.352	62.9	1.006	0.08	0.030	0.041
	LTE Band 48_Ant 7	20M	QPSK	1	0	Left Tilted	0mm	2/3	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.17	0.043	0.058
	LTE Band 48_Ant 7	20M	QPSK	50	0	Left Tilted	0mm	2/3	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.03	0.026	0.035
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	2/3	132322	1745	24.15	25.00	1.216			-0.14	0.448	0.545
	LTE Band 66_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	2/3	132322	1745	23.13	24.00	1.222			0.11	0.437	0.534
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	2/3	132322	1745	24.15	25.00	1.216			-0.05	0.228	0.277
	LTE Band 66_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	2/3	132322	1745	23.13	24.00	1.222			0.18	0.193	0.236
	LTE Band 66_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	2/3	132322	1745	24.15	25.00	1.216			0.08	0.179	0.218
	LTE Band 66_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	2/3	132322	1745	23.13	24.00	1.222			0.14	0.144	0.176
	LTE Band 66_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	2/3	132322	1745	24.15	25.00	1.216			-0.17	0.160	0.195
	LTE Band 66_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	2/3	132322	1745	23.13	24.00	1.222			0.17	0.131	0.160
	CA_66C_Ant 2	20M	QPSK	1	99	Right Cheek	0mm	2/3	132072	1720	22.99	24.50	1.416			0.06	0.340	0.481
	CA_66B_Ant 2	15M	QPSK	1	0	Right Cheek	0mm	2/3	132322	1745	22.93	24.50	1.435			0.01	0.334	0.479
	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	2/3	132322	1745	23.79	24.10	1.074			-0.06	0.073	0.078
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	2/3	132322	1745	22.80	23.10	1.072			-0.08	0.055	0.059
	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	2/3	132322	1745	23.79	24.10	1.074			0.1	0.044	0.047
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	2/3	132322	1745	22.80	23.10	1.072			-0.18	0.035	0.038
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	2/3	132322	1745	23.79	24.10	1.074			0.18	0.076	0.082
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	2/3	132322	1745	22.80	23.10	1.072			0.1	0.058	0.062
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	2/3	132322	1745	23.79	24.10	1.074			0.12	0.050	0.054
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	2/3	132322	1745	22.80	23.10	1.072			0.08	0.039	0.042
	CA_66C_Ant 0	20M	QPSK	1	99	Left Cheek	0mm	2/3	132072	1720	22.82	24.10	1.343			0.09	0.059	0.079
	CA_66B_Ant 0	15M	QPSK	1	0	Left Cheek	0mm	2/3	132322	1745	22.77	24.10	1.358			-0.1	0.055	0.075
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	2	132322	1745	15.88	17.60	1.486			0.1	0.560	0.832
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	2	132072	1720	15.81	17.60	1.510			-0.18	0.369	0.557
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	2	132572	1770	15.79	17.60	1.517			0.1	0.546	0.828
15	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	132322	1745	15.86	17.60	1.493			-0.05	0.574	0.857
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	132072	1720	15.85	17.60	1.496			0.12	0.399	0.597
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Cheek	0mm	2	132572	1770	15.76	17.60	1.528			0.08	0.552	0.843
	LTE Band 66_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	2	132322	1745	15.77	17.60	1.524			-0.17	0.483	0.736
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	2	132322	1745	15.88	17.60	1.486			-0.03	0.514	0.764
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	132322	1745	15.86	17.60	1.493			0.02	0.568	0.848
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	132072	1720	15.85	17.60	1.496			-0.05	0.358	0.536
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	0mm	2	132572	1770	15.76	17.60	1.528			0.18	0.506	0.773
	LTE Band 66_Ant 1	20M	QPSK	100	0	Right Tilted	0mm	2	132322	1745	15.77	17.60	1.524			0.14	0.521	0.794
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	2	132322	1745	15.88	17.60	1.486			-0.17	0.181	0.269
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Cheek	0mm	2	132322	1745	15.86	17.60	1.493			-0.04	0.210	0.313



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	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Tilted	Omm	2	132322	1745	15.88	17.60	1.486			0.17	0.213	0.317
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Tilted	Omm	2	132322	1745	15.86	17.60	1.493			-0.05	0.226	0.337
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	Omm	3	132322	1745	15.88	16.80	1.236			0.08	0.560	0.692
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Cheek	Omm	3	132322	1745	15.86	16.80	1.242			-0.05	0.574	0.713
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	Omm	3	132322	1745	15.88	16.80	1.236			0.01	0.514	0.635
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Tilted	Omm	3	132322	1745	15.86	16.80	1.242			0.02	0.568	0.705
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Cheek	Omm	3	132322	1745	15.88	16.80	1.236			0.03	0.181	0.224
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Cheek	Omm	3	132322	1745	15.86	16.80	1.242			-0.04	0.210	0.261
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Tilted	Omm	3	132322	1745	15.88	16.80	1.236			-0.08	0.213	0.263
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Tilted	Omm	3	132322	1745	15.86	16.80	1.242			-0.08	0.226	0.281
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Cheek	Omm	2	132322	1745	16.02	17	1.253			0.08	0.360	0.451
	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Cheek	Omm	2	132322	1745	16.01	17	1.256			-0.07	0.365	0.458
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Tilted	Omm	2	132322	1745	16.02	17	1.253			0.01	0.134	0.168
	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Tilted	Omm	2	132322	1745	16.01	17	1.256			0.03	0.132	0.166
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	Omm	2	132322	1745	16.02	17	1.253			-0.08	0.600	0.752
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	Omm	2	132322	1745	16.01	17	1.256			-0.06	0.603	0.757
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Tilted	Omm	2	132322	1745	16.02	17	1.253			0.08	0.122	0.153
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Tilted	Omm	2	132322	1745	16.01	17	1.256			-0.17	0.126	0.158
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Cheek	Omm	3	132322	1745	14.97	15.8	1.211			-0.07	0.254	0.307
	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Cheek	Omm	3	132322	1745	14.93	15.8	1.222			0.05	0.256	0.313
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Tilted	Omm	3	132322	1745	14.97	15.8	1.211			-0.11	0.094	0.114
	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Tilted	Omm	3	132322	1745	14.93	15.8	1.222			-0.12	0.092	0.112
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	Omm	3	132322	1745	14.97	15.8	1.211			0.03	0.424	0.513
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Cheek	Omm	3	132322	1745	14.93	15.8	1.222			0.03	0.423	0.517
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Tilted	Omm	3	132322	1745	14.97	15.8	1.211			-0.02	0.086	0.104
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Tilted	Omm	3	132322	1745	14.93	15.8	1.222			0.15	0.088	0.108
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Cheek	Omm	2/3	133297	680.5	24.74	25.10	1.086			-0.14	0.182	0.198
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Cheek	Omm	2/3	133297	680.5	23.71	24.10	1.094			-0.18	0.149	0.163
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Tilted	Omm	2/3	133297	680.5	24.74	25.10	1.086			0.1	0.116	0.126
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Tilted	Omm	2/3	133297	680.5	23.71	24.10	1.094			0.12	0.090	0.098
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Cheek	Omm	2/3	133297	680.5	24.74	25.10	1.086			0.07	0.284	0.309
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Cheek	Omm	2/3	133297	680.5	23.71	24.10	1.094			0.08	0.220	0.241
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Tilted	Omm	2/3	133297	680.5	24.74	25.10	1.086			-0.17	0.147	0.160
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Tilted	Omm	2/3	133297	680.5	23.71	24.10	1.094			-0.03	0.118	0.129
16	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Cheek	Omm	2	133297	680.5	22.56	24.00	1.393			0.05	0.648	0.903
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Cheek	Omm	2	133297	680.5	22.54	23.70	1.306			0.08	0.641	0.837
	LTE Band 71_Ant 1	20M	QPSK	100	0	Right Cheek	Omm	2	133297	680.5	22.49	23.70	1.321			0.01	0.632	0.835
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	Omm	2	133297	680.5	22.56	24.00	1.393			0.03	0.536	0.747
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Tilted	Omm	2	133297	680.5	22.54	23.70	1.306			-0.08	0.533	0.696
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	Omm	2	133297	680.5	22.56	24.00	1.393			-0.01	0.277	0.386
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Cheek	Omm	2	133297	680.5	22.54	23.70	1.306			0.1	0.270	0.353
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Tilted	Omm	2	133297	680.5	22.56	24.00	1.393			-0.18	0.274	0.382
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Tilted	Omm	2	133297	680.5	22.54	23.70	1.306			0.1	0.285	0.372
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Cheek	Omm	3	133297	680.5	22.56	22.90	1.081			0.05	0.648	0.701
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Cheek	Omm	3	133297	680.5	22.54	22.90	1.086			0.08	0.641	0.696
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	Omm	3	133297	680.5	22.56	22.90	1.081			0.03	0.536	0.580
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Tilted	Omm	3	133297	680.5	22.54	22.90	1.086			-0.08	0.533	0.579
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	Omm	3	133297	680.5	22.56	22.90	1.081			-0.01	0.277	0.300
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Cheek	Omm	3	133297	680.5	22.54	22.90	1.086			0.1	0.270	0.293
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Tilted	Omm	3	133297	680.5	22.56	22.90	1.081			-0.18	0.274	0.296
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Tilted	Omm	3	133297	680.5	22.54	22.90	1.086			0.1	0.285	0.310



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
17	FR1 n7_Ant 2	50M	BPSK	1	1	Right Cheek	0mm	2	507000	2535	22.80	23.50	1.175	0.13	0.766	0.900
	FR1 n7_Ant 2	50M	BPSK	135	68	Right Cheek	0mm	2	507000	2535	22.81	23.50	1.172	-0.04	0.792	0.928
	FR1 n7_Ant 2	50M	BPSK	270	0	Right Cheek	0mm	2	507000	2535	22.77	23.50	1.183	0.12	0.776	0.918
	FR1 n7_Ant 2	50M	BPSK	1	1	Right Tilted	0mm	2	507000	2535	22.80	23.50	1.175	0.03	0.148	0.174
	FR1 n7_Ant 2	50M	BPSK	135	68	Right Tilted	0mm	2	507000	2535	22.81	23.50	1.172	0.18	0.187	0.219
	FR1 n7_Ant 2	50M	BPSK	1	1	Left Cheek	0mm	2	507000	2535	22.80	23.50	1.175	0.16	0.318	0.374
	FR1 n7_Ant 2	50M	BPSK	135	68	Left Cheek	0mm	2	507000	2535	22.81	23.50	1.172	0.08	0.322	0.377
	FR1 n7_Ant 2	50M	BPSK	1	1	Left Tilted	0mm	2	507000	2535	22.80	23.50	1.175	-0.1	0.226	0.266
	FR1 n7_Ant 2	50M	BPSK	135	68	Left Tilted	0mm	2	507000	2535	22.81	23.50	1.172	0.07	0.238	0.279
	FR1 n7_Ant 2	50M	BPSK	1	1	Right Cheek	0mm	3	507000	2535	21.80	22.30	1.122	-0.16	0.507	0.569
	FR1 n7_Ant 2	50M	BPSK	135	68	Right Cheek	0mm	3	507000	2535	21.79	22.30	1.125	0.07	0.539	0.606
	FR1 n7_Ant 2	50M	BPSK	1	1	Right Tilted	0mm	3	507000	2535	21.80	22.30	1.122	-0.14	0.098	0.110
	FR1 n7_Ant 2	50M	BPSK	135	68	Right Tilted	0mm	3	507000	2535	21.79	22.30	1.125	-0.19	0.123	0.138
	FR1 n7_Ant 2	50M	BPSK	1	1	Left Cheek	0mm	3	507000	2535	21.80	22.30	1.122	0.01	0.211	0.237
	FR1 n7_Ant 2	50M	BPSK	135	68	Left Cheek	0mm	3	507000	2535	21.79	22.30	1.125	0.06	0.212	0.238
	FR1 n7_Ant 2	50M	BPSK	1	1	Left Tilted	0mm	3	507000	2535	21.80	22.30	1.122	0.02	0.150	0.168
	FR1 n7_Ant 2	50M	BPSK	135	68	Left Tilted	0mm	3	507000	2535	21.79	22.30	1.125	0.12	0.156	0.175
18	FR1 n7_Ant 0	50M	BPSK	1	1	Right Cheek	0mm	2/3	507000	2535	23.96	24.70	1.186	0.08	0.082	0.097
	FR1 n7_Ant 0	50M	BPSK	135	68	Right Cheek	0mm	2/3	507000	2535	23.85	24.70	1.216	-0.17	0.078	0.095
	FR1 n7_Ant 0	50M	BPSK	1	1	Right Tilted	0mm	2/3	507000	2535	23.96	24.70	1.186	0.04	0.037	0.044
	FR1 n7_Ant 0	50M	BPSK	135	68	Right Tilted	0mm	2/3	507000	2535	23.85	24.70	1.216	-0.01	0.060	0.073
	FR1 n7_Ant 0	50M	BPSK	1	1	Left Cheek	0mm	2/3	507000	2535	23.96	24.70	1.186	-0.08	0.155	0.184
	FR1 n7_Ant 0	50M	BPSK	135	68	Left Cheek	0mm	2/3	507000	2535	23.85	24.70	1.216	-0.15	0.174	0.212
	FR1 n7_Ant 0	50M	BPSK	1	1	Left Tilted	0mm	2/3	507000	2535	23.96	24.70	1.186	0.05	0.052	0.062
	FR1 n7_Ant 0	50M	BPSK	135	68	Left Tilted	0mm	2/3	507000	2535	23.85	24.70	1.216	0.06	0.059	0.072
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Cheek	0mm	2/3	141500	707.5	24.72	25.10	1.091	0.08	0.254	0.277
	FR1 n12_Ant 0	15M	BPSK	36	22	Right Cheek	0mm	2/3	141500	707.5	24.70	25.10	1.096	-0.04	0.265	0.291
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Tilted	0mm	2/3	141500	707.5	24.72	25.10	1.091	0.01	0.185	0.202
	FR1 n12_Ant 0	15M	BPSK	36	22	Right Tilted	0mm	2/3	141500	707.5	24.70	25.10	1.096	0.03	0.180	0.197
	FR1 n12_Ant 0	15M	BPSK	1	1	Left Cheek	0mm	2/3	141500	707.5	24.72	25.10	1.091	-0.08	0.312	0.341
	FR1 n12_Ant 0	15M	BPSK	36	22	Left Cheek	0mm	2/3	141500	707.5	24.70	25.10	1.096	0.19	0.328	0.360
	FR1 n12_Ant 0	15M	BPSK	1	1	Left Tilted	0mm	2/3	141500	707.5	24.72	25.10	1.091	-0.08	0.160	0.175
	FR1 n12_Ant 0	15M	BPSK	36	22	Left Tilted	0mm	2/3	141500	707.5	24.70	25.10	1.096	0.1	0.176	0.193
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Cheek	0mm	2	141500	707.5	21.65	22.80	1.303	0.08	0.654	0.852
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Cheek	0mm	2	141500	707.5	21.54	22.80	1.337	0.03	0.662	0.885
18	FR1 n12_Ant 1	15M	BPSK	75	0	Right Cheek	0mm	2	141500	707.5	21.55	22.80	1.334	-0.17	0.649	0.865
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Tilted	0mm	2	141500	707.5	21.65	22.80	1.303	-0.03	0.620	0.808
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Tilted	0mm	2	141500	707.5	21.54	22.80	1.337	0.14	0.608	0.813
	FR1 n12_Ant 1	15M	BPSK	75	0	Right Tilted	0mm	2	141500	707.5	21.55	22.80	1.334	0.11	0.619	0.825
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	2	141500	707.5	21.65	22.80	1.303	-0.05	0.329	0.429
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Cheek	0mm	2	141500	707.5	21.54	22.80	1.337	0.03	0.333	0.445
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Tilted	0mm	2	141500	707.5	21.65	22.80	1.303	0.18	0.375	0.489
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Tilted	0mm	2	141500	707.5	21.54	22.80	1.337	0.14	0.384	0.513
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Cheek	0mm	3	141500	707.5	21.65	21.80	1.035	0.08	0.654	0.677
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Cheek	0mm	3	141500	707.5	21.54	21.80	1.062	0.03	0.662	0.703
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Tilted	0mm	3	141500	707.5	21.65	21.80	1.035	-0.03	0.620	0.642
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Tilted	0mm	3	141500	707.5	21.54	21.80	1.062	0.14	0.608	0.646
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	3	141500	707.5	21.65	21.80	1.035	-0.05	0.329	0.341
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Cheek	0mm	3	141500	707.5	21.54	21.80	1.062	0.03	0.333	0.354
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Tilted	0mm	3	141500	707.5	21.65	21.80	1.035	0.18	0.375	0.388
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Tilted	0mm	3	141500	707.5	21.54	21.80	1.062	0.14	0.384	0.408



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	FR1 n14_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	2/3	158600	793	24.55	25.10	1.135	-0.09	0.258	0.293
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Cheek	0mm	2/3	158600	793	24.53	25.10	1.140	-0.09	0.236	0.269
	FR1 n14_Ant 0	10M	BPSK	1	1	Right Tilted	0mm	2/3	158600	793	24.55	25.10	1.135	-0.08	0.130	0.148
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Tilted	0mm	2/3	158600	793	24.53	25.10	1.140	0.13	0.135	0.154
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Cheek	0mm	2/3	158600	793	24.55	25.10	1.135	0.17	0.365	0.414
	FR1 n14_Ant 0	10M	BPSK	25	14	Left Cheek	0mm	2/3	158600	793	24.53	25.10	1.140	0.12	0.360	0.410
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Tilted	0mm	2/3	158600	793	24.55	25.10	1.135	0.03	0.195	0.221
	FR1 n14_Ant 0	10M	BPSK	25	14	Left Tilted	0mm	2/3	158600	793	24.53	25.10	1.140	0.18	0.207	0.236
19	FR1 n14_Ant 1	10M	BPSK	1	1	Right Cheek	0mm	2	158600	793	21.07	22.30	1.327	0.06	0.657	0.872
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Cheek	0mm	2	158600	793	21.12	22.30	1.312	-0.17	0.583	0.765
	FR1 n14_Ant 1	10M	BPSK	50	0	Right Cheek	0mm	2	158600	793	21.11	22.30	1.315	0.17	0.636	0.836
	FR1 n14_Ant 1	10M	BPSK	1	1	Right Tilted	0mm	2	158600	793	21.07	22.30	1.327	-0.05	0.525	0.697
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Tilted	0mm	2	158600	793	21.12	22.30	1.312	0.01	0.466	0.611
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	2	158600	793	21.07	22.30	1.327	0.01	0.407	0.540
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Cheek	0mm	2	158600	793	21.12	22.30	1.312	-0.17	0.398	0.522
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Tilted	0mm	2	158600	793	21.07	22.30	1.327	0.04	0.401	0.532
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Tilted	0mm	2	158600	793	21.12	22.30	1.312	-0.01	0.388	0.509
	FR1 n14_Ant 1	10M	BPSK	1	1	Right Cheek	0mm	3	158600	793	21.07	21.40	1.079	0.06	0.657	0.709
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Cheek	0mm	3	158600	793	21.12	21.40	1.067	-0.17	0.583	0.622
	FR1 n14_Ant 1	10M	BPSK	1	1	Right Tilted	0mm	3	158600	793	21.07	21.40	1.079	-0.05	0.525	0.566
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Tilted	0mm	3	158600	793	21.12	21.40	1.067	0.01	0.466	0.497
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	3	158600	793	21.07	21.40	1.079	0.01	0.407	0.439
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Cheek	0mm	3	158600	793	21.12	21.40	1.067	-0.17	0.398	0.425
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Tilted	0mm	3	158600	793	21.07	21.40	1.079	0.04	0.401	0.433
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Tilted	0mm	3	158600	793	21.12	21.40	1.067	-0.01	0.388	0.414
	FR1 n25_Ant 2	40M	BPSK	1	1	Right Cheek	0mm	2/3	376500	1882.5	23.96	25.00	1.271	0.1	0.504	0.640
	FR1 n25_Ant 2	40M	BPSK	108	54	Right Cheek	0mm	2/3	376500	1882.5	23.94	25.00	1.276	-0.05	0.546	0.697
	FR1 n25_Ant 2	40M	BPSK	1	1	Right Tilted	0mm	2/3	376500	1882.5	23.96	25.00	1.271	0.12	0.171	0.217
	FR1 n25_Ant 2	40M	BPSK	108	54	Right Tilted	0mm	2/3	376500	1882.5	23.94	25.00	1.276	0.08	0.166	0.212
	FR1 n25_Ant 2	40M	BPSK	1	1	Left Cheek	0mm	2/3	376500	1882.5	23.96	25.00	1.271	-0.17	0.221	0.281
	FR1 n25_Ant 2	40M	BPSK	108	54	Left Cheek	0mm	2/3	376500	1882.5	23.94	25.00	1.276	0.01	0.239	0.305
	FR1 n25_Ant 2	40M	BPSK	1	1	Left Tilted	0mm	2/3	376500	1882.5	23.96	25.00	1.271	-0.03	0.131	0.166
	FR1 n25_Ant 2	40M	BPSK	108	54	Left Tilted	0mm	2/3	376500	1882.5	23.94	25.00	1.276	0.14	0.132	0.168
	FR1 n25_Ant 0	40M	BPSK	1	1	Right Cheek	0mm	2/3	376500	1882.5	23.66	24.10	1.107	0.05	0.041	0.045
	FR1 n25_Ant 0	40M	BPSK	108	54	Right Cheek	0mm	2/3	376500	1882.5	23.65	24.10	1.109	0.12	0.026	0.029
	FR1 n25_Ant 0	40M	BPSK	1	1	Right Tilted	0mm	2/3	376500	1882.5	23.66	24.10	1.107	0.08	0.001	0.001
	FR1 n25_Ant 0	40M	BPSK	108	54	Right Tilted	0mm	2/3	376500	1882.5	23.65	24.10	1.109	-0.17	0.001	0.001
	FR1 n25_Ant 0	40M	BPSK	1	1	Left Cheek	0mm	2/3	376500	1882.5	23.66	24.10	1.107	-0.03	0.039	0.043
	FR1 n25_Ant 0	40M	BPSK	108	54	Left Cheek	0mm	2/3	376500	1882.5	23.65	24.10	1.109	-0.1	0.044	0.049
	FR1 n25_Ant 0	40M	BPSK	1	1	Left Tilted	0mm	2/3	376500	1882.5	23.66	24.10	1.107	0.14	0.001	0.001
	FR1 n25_Ant 0	40M	BPSK	108	54	Left Tilted	0mm	2/3	376500	1882.5	23.65	24.10	1.109	0.11	0.001	0.001
	FR1 n25_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	2	376500	1882.5	14.75	16.60	1.531	0.08	0.492	0.753
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	2	376500	1882.5	14.82	16.60	1.507	-0.07	0.557	0.839
	FR1 n25_Ant 1	40M	BPSK	216	0	Right Cheek	0mm	2	376500	1882.5	14.81	16.60	1.510	-0.11	0.483	0.729
	FR1 n25_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	2	376500	1882.5	14.75	16.60	1.531	0.01	0.418	0.640
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Tilted	0mm	2	376500	1882.5	14.82	16.60	1.507	-0.12	0.515	0.776
	FR1 n25_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	2	376500	1882.5	14.75	16.60	1.531	0.03	0.183	0.280
	FR1 n25_Ant 1	40M	BPSK	108	54	Left Cheek	0mm	2	376500	1882.5	14.82	16.60	1.507	-0.14	0.210	0.316
	FR1 n25_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	2	376500	1882.5	14.75	16.60	1.531	-0.08	0.192	0.294
	FR1 n25_Ant 1	40M	BPSK	108	54	Left Tilted	0mm	2	376500	1882.5	14.82	16.60	1.507	-0.08	0.239	0.360
	FR1 n25_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	3	376500	1882.5	14.75	15.90	1.303	0.08	0.492	0.641
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	3	376500	1882.5	14.82	15.90	1.282	-0.07	0.557	0.714
	FR1 n25_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	3	376500	1882.5	14.75	15.90	1.303	0.01	0.418	0.545
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Tilted	0mm	3	376500	1882.5	14.82	15.90	1.282	-0.12	0.515	0.660
	FR1 n25_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	3	376500	1882.5	14.75	15.90	1.303	0.03	0.183	0.238
	FR1 n25_Ant 1	40M	BPSK	108	54	Left Cheek	0mm	3	376500	1882.5	14.82	15.90	1.282	-0.14	0.210	0.269



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	FR1 n25_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	3	376500	1882.5	14.75	15.90	1.303	-0.08	0.192	0.250
	FR1 n25_Ant 1	40M	BPSK	108	54	Left Tilted	0mm	3	376500	1882.5	14.82	15.90	1.282	-0.08	0.239	0.306
	FR1 n25_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	2	376500	1882.5	17.25	18.2	1.245	-0.01	0.277	0.345
	FR1 n25_Ant 5	40M	BPSK	108	54	Right Cheek	0mm	2	376500	1882.5	17.26	18.2	1.242	0.1	0.241	0.299
	FR1 n25_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	2	376500	1882.5	17.25	18.2	1.245	-0.18	0.161	0.200
	FR1 n25_Ant 5	40M	BPSK	108	54	Right Tilted	0mm	2	376500	1882.5	17.26	18.2	1.242	0.1	0.173	0.215
20	FR1 n25_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	2	376500	1882.5	17.25	18.2	1.245	0.03	0.733	0.912
	FR1 n25_Ant 5	40M	BPSK	108	54	Left Cheek	0mm	2	376500	1882.5	17.26	18.2	1.242	0.12	0.690	0.857
	FR1 n25_Ant 5	40M	BPSK	216	0	Left Cheek	0mm	2	376500	1882.5	17.28	18.2	1.236	0.08	0.691	0.854
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	2	376500	1882.5	17.25	18.2	1.245	-0.17	0.256	0.319
	FR1 n25_Ant 5	40M	BPSK	108	54	Left Tilted	0mm	2	376500	1882.5	17.26	18.2	1.242	-0.03	0.299	0.371
	FR1 n25_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	3	376500	1882.5	16.25	17	1.189	0.11	0.204	0.242
	FR1 n25_Ant 5	40M	BPSK	108	54	Right Cheek	0mm	3	376500	1882.5	16.21	17	1.199	-0.05	0.175	0.210
	FR1 n25_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	3	376500	1882.5	16.25	17	1.189	-0.08	0.118	0.140
	FR1 n25_Ant 5	40M	BPSK	108	54	Right Tilted	0mm	3	376500	1882.5	16.21	17	1.199	0.16	0.126	0.151
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	3	376500	1882.5	16.25	17	1.189	0.02	0.497	0.591
	FR1 n25_Ant 5	40M	BPSK	108	54	Left Cheek	0mm	3	376500	1882.5	16.21	17	1.199	0.05	0.488	0.585
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	3	376500	1882.5	16.25	17	1.189	-0.15	0.188	0.223
	FR1 n25_Ant 5	40M	BPSK	108	54	Left Tilted	0mm	3	376500	1882.5	16.21	17	1.199	0.02	0.218	0.261
	FR1 n26_Ant 0	20M	QPSK	1	53	Right Cheek	0mm	2/3	166300	831.5	24.31	25.10	1.199	0.04	0.226	0.271
	FR1 n26_Ant 0	20M	QPSK	50	28	Right Cheek	0mm	2/3	166300	831.5	24.20	25.10	1.230	-0.17	0.217	0.267
	FR1 n26_Ant 0	20M	QPSK	1	53	Right Tilted	0mm	2/3	166300	831.5	24.31	25.10	1.199	-0.03	0.134	0.161
	FR1 n26_Ant 0	20M	QPSK	50	28	Right Tilted	0mm	2/3	166300	831.5	24.20	25.10	1.230	0.14	0.115	0.141
	FR1 n26_Ant 0	20M	QPSK	1	53	Left Cheek	0mm	2/3	166300	831.5	24.31	25.10	1.199	0.11	0.374	0.449
	FR1 n26_Ant 0	20M	QPSK	50	28	Left Cheek	0mm	2/3	166300	831.5	24.20	25.10	1.230	-0.01	0.367	0.452
	FR1 n26_Ant 0	20M	QPSK	1	53	Left Tilted	0mm	2/3	166300	831.5	24.31	25.10	1.199	-0.05	0.201	0.241
	FR1 n26_Ant 0	20M	QPSK	50	28	Left Tilted	0mm	2/3	166300	831.5	24.20	25.10	1.230	0.18	0.199	0.245
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	2	166300	831.5	20.66	21.60	1.242	0.08	0.720	0.894
21	FR1 n26_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	2	166300	831.5	20.64	21.60	1.247	0.03	0.746	0.931
	FR1 n26_Ant 1	20M	BPSK	100	0	Right Cheek	0mm	2	166300	831.5	20.65	21.60	1.245	0.01	0.742	0.923
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	2	166300	831.5	20.66	21.60	1.242	0.03	0.621	0.771
	FR1 n26_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	2	166300	831.5	20.64	21.60	1.247	-0.08	0.567	0.707
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	2	166300	831.5	20.66	21.60	1.242	-0.08	0.529	0.657
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	2	166300	831.5	20.64	21.60	1.247	0.01	0.551	0.687
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	2	166300	831.5	20.66	21.60	1.242	0.1	0.545	0.677
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	2	166300	831.5	20.64	21.60	1.247	-0.18	0.577	0.720
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	3	166300	831.5	20.13	20.40	1.064	0.16	0.519	0.552
	FR1 n26_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	3	166300	831.5	20.07	20.40	1.079	0.01	0.541	0.584
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	3	166300	831.5	20.13	20.40	1.064	-0.18	0.448	0.477
	FR1 n26_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	3	166300	831.5	20.07	20.40	1.079	0.02	0.405	0.437
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	3	166300	831.5	20.13	20.40	1.064	0.16	0.381	0.405
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	3	166300	831.5	20.07	20.40	1.079	-0.03	0.393	0.424
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	3	166300	831.5	20.13	20.40	1.064	0.07	0.392	0.417
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	3	166300	831.5	20.07	20.40	1.079	0	0.412	0.445
	FR1 n30_Ant 2	10M	BPSK	1	1	Right Cheek	0mm	2/3	462000	2310	21.12	22.50	1.374	0.08	0.332	0.456
22	FR1 n30_Ant 2	10M	BPSK	25	14	Right Cheek	0mm	2/3	462000	2310	21.11	22.50	1.377	-0.13	0.419	0.577
	FR1 n30_Ant 2	10M	BPSK	1	1	Right Tilted	0mm	2/3	462000	2310	21.12	22.50	1.374	0.01	0.112	0.154
	FR1 n30_Ant 2	10M	BPSK	25	14	Right Tilted	0mm	2/3	462000	2310	21.11	22.50	1.377	0.03	0.112	0.154
	FR1 n30_Ant 2	10M	BPSK	1	1	Left Cheek	0mm	2/3	462000	2310	21.12	22.50	1.374	-0.08	0.157	0.216
	FR1 n30_Ant 2	10M	BPSK	25	14	Left Cheek	0mm	2/3	462000	2310	21.11	22.50	1.377	-0.06	0.156	0.215
	FR1 n30_Ant 2	10M	BPSK	1	1	Left Tilted	0mm	2/3	462000	2310	21.12	22.50	1.374	-0.08	0.123	0.169
	FR1 n30_Ant 2	10M	BPSK	25	14	Left Tilted	0mm	2/3	462000	2310	21.11	22.50	1.377	0.1	0.122	0.168
	FR1 n30_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	2/3	462000	2310	19.55	21.40	1.531	-0.15	0.051	0.078
	FR1 n30_Ant 0	10M	BPSK	25	14	Right Cheek	0mm	2/3	462000	2310	19.50	21.40	1.549	-0.1	0.041	0.064
	FR1 n30_Ant 0	10M	BPSK	1	1	Right Tilted	0mm	2/3	462000	2310	19.55	21.40	1.531	0.01	0.001	0.002
	FR1 n30_Ant 0	10M	BPSK	25	14	Right Tilted	0mm	2/3	462000	2310	19.50	21.40	1.549	-0.15	0.001	0.002



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	FR1 n30_Ant 0	10M	BPSK	1	1	Left Cheek	0mm	2/3	462000	2310	19.55	21.40	1.531	0.19	0.047	0.072
	FR1 n30_Ant 0	10M	BPSK	25	14	Left Cheek	0mm	2/3	462000	2310	19.50	21.40	1.549	0.04	0.048	0.074
	FR1 n30_Ant 0	10M	BPSK	1	1	Left Tilted	0mm	2/3	462000	2310	19.55	21.40	1.531	-0.18	0.028	0.043
	FR1 n30_Ant 0	10M	BPSK	25	14	Left Tilted	0mm	2/3	462000	2310	19.50	21.40	1.549	0.03	0.031	0.048
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	2	518598	2592.99	21.99	23.50	1.416	-0.13	0.578	0.818
23	FR1 n41_Ant 2	100M	BPSK	135	0	Right Cheek	0mm	2	518598	2592.99	21.81	23.50	1.476	0.01	0.629	0.928
	FR1 n41_Ant 2	100M	BPSK	270	0	Right Cheek	0mm	2	518598	2592.99	21.96	23.50	1.426	-0.13	0.590	0.841
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Tilted	0mm	2	518598	2592.99	21.99	23.50	1.416	0.06	0.131	0.185
	FR1 n41_Ant 2	100M	BPSK	135	0	Right Tilted	0mm	2	518598	2592.99	21.81	23.50	1.476	-0.03	0.135	0.199
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	21.99	23.50	1.416	-0.03	0.280	0.396
	FR1 n41_Ant 2	100M	BPSK	135	0	Left Cheek	0mm	2	518598	2592.99	21.81	23.50	1.476	0.09	0.266	0.393
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Tilted	0mm	2	518598	2592.99	21.99	23.50	1.416	0.08	0.233	0.330
	FR1 n41_Ant 2	100M	BPSK	135	0	Left Tilted	0mm	2	518598	2592.99	21.81	23.50	1.476	-0.07	0.222	0.328
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	2	518598	2592.99	25.13	26.50	1.371	0.05	0.650	0.891
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	3	518598	2592.99	21.99	22.30	1.074	-0.13	0.578	0.621
	FR1 n41_Ant 2	100M	BPSK	135	0	Right Cheek	0mm	3	518598	2592.99	21.81	22.30	1.119	0.01	0.629	0.704
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Tilted	0mm	3	518598	2592.99	21.99	22.30	1.074	0.06	0.131	0.141
	FR1 n41_Ant 2	100M	BPSK	135	0	Right Tilted	0mm	3	518598	2592.99	21.81	22.30	1.119	-0.03	0.135	0.151
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	21.99	22.30	1.074	-0.03	0.280	0.301
	FR1 n41_Ant 2	100M	BPSK	135	0	Left Cheek	0mm	3	518598	2592.99	21.81	22.30	1.119	0.09	0.266	0.298
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Tilted	0mm	3	518598	2592.99	21.99	22.30	1.074	0.08	0.233	0.250
	FR1 n41_Ant 2	100M	BPSK	135	0	Left Tilted	0mm	3	518598	2592.99	21.81	22.30	1.119	-0.07	0.222	0.249
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	3	518598	2592.99	25.13	25.30	1.040	0.05	0.650	0.676
	FR1 n41_Ant 0	100M	BPSK	1	1	Right Cheek	0mm	2/3	518598	2592.99	23.60	24.60	1.259	-0.03	0.063	0.079
	FR1 n41_Ant 0	100M	BPSK	135	69	Right Cheek	0mm	2/3	518598	2592.99	23.40	24.60	1.318	0.13	0.065	0.086
	FR1 n41_Ant 0	100M	BPSK	1	1	Right Tilted	0mm	2/3	518598	2592.99	23.60	24.60	1.259	0.02	0.073	0.092
	FR1 n41_Ant 0	100M	BPSK	135	69	Right Tilted	0mm	2/3	518598	2592.99	23.40	24.60	1.318	0.07	0.076	0.100
	FR1 n41_Ant 0	100M	BPSK	1	1	Left Cheek	0mm	2/3	518598	2592.99	23.60	24.60	1.259	0.16	0.201	0.253
	FR1 n41_Ant 0	100M	BPSK	135	69	Left Cheek	0mm	2/3	518598	2592.99	23.40	24.60	1.318	-0.08	0.208	0.274
	FR1 n41_Ant 0	100M	BPSK	1	1	Left Tilted	0mm	2/3	518598	2592.99	23.60	24.60	1.259	0.13	0.054	0.068
	FR1 n41_Ant 0	100M	BPSK	135	69	Left Tilted	0mm	2/3	518598	2592.99	23.40	24.60	1.318	-0.18	0.052	0.069
	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Left Cheek	0mm	2/3	518598	2592.99	25.76	26.50	1.186	0.02	0.171	0.203
	FR1 n41_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	518598	2592.99	13.45	14.70	1.334	0.18	0.530	0.707
	FR1 n41_Ant 1	100M	BPSK	135	0	Right Cheek	0mm	2	518598	2592.99	13.33	14.70	1.371	-0.04	0.543	0.744
	FR1 n41_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	518598	2592.99	13.45	14.70	1.334	0.11	0.649	0.865
	FR1 n41_Ant 1	100M	BPSK	135	0	Right Tilted	0mm	2	518598	2592.99	13.33	14.70	1.371	0.14	0.561	0.769
	FR1 n41_Ant 1	100M	BPSK	270	0	Right Tilted	0mm	2	518598	2592.99	13.19	14.70	1.416	-0.18	0.510	0.722
	FR1 n41_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	13.45	14.70	1.334	0.01	0.330	0.440
	FR1 n41_Ant 1	100M	BPSK	135	0	Left Cheek	0mm	2	518598	2592.99	13.33	14.70	1.371	-0.17	0.318	0.436
	FR1 n41_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	2	518598	2592.99	13.45	14.70	1.334	0.17	0.394	0.525
	FR1 n41_Ant 1	100M	BPSK	135	0	Left Tilted	0mm	2	518598	2592.99	13.33	14.70	1.371	-0.05	0.371	0.509
	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	518598	2592.99	16.55	17.70	1.303	0.01	0.623	0.812
	FR1 n41_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	518598	2592.99	13.45	14.00	1.135	0.18	0.530	0.602
	FR1 n41_Ant 1	100M	BPSK	135	0	Right Cheek	0mm	3	518598	2592.99	13.33	14.00	1.167	-0.04	0.543	0.634
	FR1 n41_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	518598	2592.99	13.45	14.00	1.135	0.11	0.649	0.737
	FR1 n41_Ant 1	100M	BPSK	135	0	Right Tilted	0mm	3	518598	2592.99	13.33	14.00	1.167	0.14	0.561	0.655
	FR1 n41_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	13.45	14.00	1.135	0.01	0.330	0.375
	FR1 n41_Ant 1	100M	BPSK	135	0	Left Cheek	0mm	3	518598	2592.99	13.33	14.00	1.167	-0.17	0.318	0.371
	FR1 n41_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	3	518598	2592.99	13.45	14.00	1.135	0.17	0.394	0.447
	FR1 n41_Ant 1	100M	BPSK	135	0	Left Tilted	0mm	3	518598	2592.99	13.33	14.00	1.167	-0.05	0.371	0.433
	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	518598	2592.99	16.55	17.00	1.109	0.01	0.623	0.691
	FR1 n41_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	2	518598	2592.99	16.74	18.4	1.466	0.13	0.177	0.259
	FR1 n41_Ant 5	100M	BPSK	135	0	Right Cheek	0mm	2	518598	2592.99	16.65	18.4	1.496	0.08	0.124	0.186
	FR1 n41_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	2	518598	2592.99	16.74	18.4	1.466	0.01	0.043	0.063
	FR1 n41_Ant 5	100M	BPSK	135	0	Right Tilted	0mm	2	518598	2592.99	16.65	18.4	1.496	0.03	0.033	0.049
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	16.74	18.4	1.466	0.01	0.616	0.903



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	FR1 n41_Ant 5	100M	BPSK	135	0	Left Cheek	0mm	2	518598	2592.99	16.65	18.4	1.496	-0.08	0.482	0.721
	FR1 n41_Ant 5	100M	BPSK	270	0	Left Cheek	0mm	2	518598	2592.99	16.51	18.4	1.545	-0.08	0.420	0.649
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	2	518598	2592.99	16.74	18.4	1.466	0.1	0.105	0.154
	FR1 n41_Ant 5	100M	BPSK	135	0	Left Tilted	0mm	2	518598	2592.99	16.65	18.4	1.496	-0.18	0.110	0.165
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	518598	2592.99	19.75	21.4	1.462	0.1	0.607	0.888
	FR1 n41_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	3	518598	2592.99	16.74	17.2	1.112	0.13	0.177	0.197
	FR1 n41_Ant 5	100M	BPSK	135	0	Right Cheek	0mm	3	518598	2592.99	16.65	17.2	1.135	0.08	0.124	0.141
	FR1 n41_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	3	518598	2592.99	16.74	17.2	1.112	0.01	0.043	0.048
	FR1 n41_Ant 5	100M	BPSK	135	0	Right Tilted	0mm	3	518598	2592.99	16.65	17.2	1.135	0.03	0.033	0.037
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	16.74	17.2	1.112	0.01	0.616	0.685
	FR1 n41_Ant 5	100M	BPSK	135	0	Left Cheek	0mm	3	518598	2592.99	16.65	17.2	1.135	-0.08	0.482	0.547
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	3	518598	2592.99	16.74	17.2	1.112	0.1	0.105	0.117
	FR1 n41_Ant 5	100M	BPSK	135	0	Left Tilted	0mm	3	518598	2592.99	16.65	17.2	1.135	-0.18	0.110	0.125
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	518598	2592.99	19.75	20.2	1.109	0.1	0.607	0.673
	FR1 n48_Ant 6	40M	BPSK	1	104	Right Cheek	0mm	2/3	641666	3624.99	19.17	20.90	1.489	-0.01	0.051	0.076
	FR1 n48_Ant 6	40M	BPSK	50	25	Right Cheek	0mm	2/3	641666	3624.985	19.22	20.90	1.472	0.01	0.059	0.087
	FR1 n48_Ant 6	40M	BPSK	1	104	Right Tilted	0mm	2/3	641666	3624.99	19.17	20.90	1.489	0.05	0.066	0.098
	FR1 n48_Ant 6	40M	BPSK	50	25	Right Tilted	0mm	2/3	641666	3624.99	19.22	20.90	1.472	0.06	0.073	0.107
	FR1 n48_Ant 6	40M	BPSK	1	104	Left Cheek	0mm	2/3	641666	3624.99	19.17	20.90	1.489	-0.09	0.084	0.125
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Cheek	0mm	2/3	641666	3624.985	19.22	20.90	1.472	0.16	0.096	0.141
	FR1 n48_Ant 6	40M	BPSK	1	104	Left Tilted	0mm	2/3	641666	3624.99	19.17	20.90	1.489	0.13	0.048	0.071
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Tilted	0mm	2/3	641666	3624.99	19.22	20.90	1.472	0.12	0.052	0.077
	FR1 n48_Ant 7	40M	BPSK	1	104	Right Cheek	0mm	2/3	641666	3624.99	19.29	21.00	1.483	-0.17	0.100	0.148
	FR1 n48_Ant 7	40M	BPSK	50	25	Right Cheek	0mm	2/3	641666	3624.985	19.33	21.00	1.469	0.17	0.134	0.197
	FR1 n48_Ant 7	40M	BPSK	1	104	Right Tilted	0mm	2/3	641666	3624.99	19.29	21.00	1.483	0.17	0.055	0.082
	FR1 n48_Ant 7	40M	BPSK	50	25	Right Tilted	0mm	2/3	641666	3624.99	19.33	21.00	1.469	-0.05	0.064	0.094
	FR1 n48_Ant 7	40M	BPSK	1	104	Left Cheek	0mm	2/3	641666	3624.99	19.29	21.00	1.483	0.01	0.080	0.119
	FR1 n48_Ant 7	40M	BPSK	50	25	Left Cheek	0mm	2/3	641666	3624.985	19.33	21.00	1.469	0.14	0.093	0.137
	FR1 n48_Ant 7	40M	BPSK	1	104	Left Tilted	0mm	2/3	641666	3624.99	19.29	21.00	1.483	-0.17	0.065	0.096
	FR1 n48_Ant 7	40M	BPSK	50	25	Left Tilted	0mm	2/3	641666	3624.99	19.33	21.00	1.469	0.04	0.078	0.115
24	FR1 n48_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	2	641666	3624.985	16.56	17.40	1.213	0.05	0.765	0.928
	FR1 n48_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	2	637334	3560.01	16.51	17.40	1.227	0.08	0.695	0.853
	FR1 n48_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	2	646000	3690	16.41	17.40	1.256	0.01	0.704	0.884
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	2	641666	3624.99	16.55	17.40	1.216	0.03	0.719	0.874
	FR1 n48_Ant 1	20M	BPSK	25	12	Right Cheek	0mm	2	637334	3560.01	16.36	17.40	1.271	-0.08	0.695	0.883
	FR1 n48_Ant 1	30M	BPSK	36	18	Right Cheek	0mm	2	645666	3684.99	16.54	17.40	1.219	-0.08	0.688	0.839
	FR1 n48_Ant 1	40M	BPSK	100	0	Right Cheek	0mm	2	641666	3624.99	16.51	17.40	1.227	0.1	0.707	0.868
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	2	641666	3624.99	16.56	17.40	1.213	-0.18	0.494	0.599
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	2	641666	3624.99	16.55	17.40	1.216	0.08	0.466	0.567
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	2	641666	3624.985	16.56	17.40	1.213	0	0.578	0.701
	FR1 n48_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	2	637334	3560.01	16.51	17.40	1.227	0.14	0.566	0.695
	FR1 n48_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	2	646000	3690	16.41	17.40	1.256	0.11	0.552	0.693
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Cheek	0mm	2	641666	3624.99	16.55	17.40	1.216	-0.05	0.551	0.670
	FR1 n48_Ant 1	20M	BPSK	25	12	Left Cheek	0mm	2	637334	3560.01	16.36	17.40	1.271	0.18	0.547	0.695
	FR1 n48_Ant 1	30M	BPSK	36	18	Left Cheek	0mm	2	645666	3684.99	16.54	17.40	1.219	0.14	0.545	0.664
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	2	641666	3624.99	16.55	17.40	1.216	0.17	0.592	0.720
	FR1 n48_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	2	637334	3560.01	16.51	17.40	1.227	-0.05	0.566	0.695
	FR1 n48_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	2	646000	3690	16.41	17.40	1.256	0.01	0.556	0.698
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Tilted	0mm	2	641666	3624.99	16.51	17.40	1.227	0.1	0.557	0.684
	FR1 n48_Ant 1	20M	BPSK	25	12	Left Tilted	0mm	2	637334	3560.01	16.36	17.40	1.271	-0.17	0.548	0.696
	FR1 n48_Ant 1	30M	BPSK	36	18	Left Tilted	0mm	2	645666	3684.99	16.54	17.40	1.219	0.04	0.571	0.696
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	3	641666	3624.985	15.52	16.20	1.169	-0.03	0.606	0.709
	FR1 n48_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	3	637334	3560.01	15.41	16.20	1.199	0.06	0.556	0.667
	FR1 n48_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	3	646000	3690	15.40	16.20	1.202	-0.09	0.576	0.693
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Cheek	0mm	3	641666	3624.99	15.48	16.20	1.180	-0.08	0.571	0.674
	FR1 n48_Ant 1	20M	BPSK	25	12	Right Cheek	0mm	3	637334	3560.01	15.40	16.20	1.202	0.13	0.576	0.693



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	FR1 n48_Ant 1	30M	BPSK	36	18	Right Cheek	0mm	3	645666	3684.99	15.40	16.20	1.202	0.12	0.548	0.659
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	3	641666	3624.99	15.52	16.20	1.169	0.03	0.391	0.457
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Tilted	0mm	3	641666	3624.99	15.48	16.20	1.180	0.18	0.370	0.437
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	3	641666	3624.985	15.52	16.20	1.169	-0.03	0.407	0.476
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Cheek	0mm	3	641666	3624.99	15.48	16.20	1.180	-0.01	0.400	0.472
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	3	641666	3624.99	15.52	16.20	1.169	-0.08	0.423	0.495
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Tilted	0mm	3	641666	3624.99	15.48	16.20	1.180	0.05	0.405	0.478
	FR1 n48_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	2	641666	3624.985	15.66	16.20	1.132	-0.11	0.361	0.409
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Cheek	0mm	2	641666	3624.99	15.61	16.20	1.146	0.16	0.339	0.388
	FR1 n48_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	2	641666	3624.99	15.66	16.20	1.132	-0.1	0.329	0.373
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Tilted	0mm	2	641666	3624.99	15.61	16.20	1.146	0.07	0.315	0.361
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	2	641666	3624.985	15.66	16.20	1.132	-0.11	0.598	0.677
	FR1 n48_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	2	637334	3560.01	15.59	16.20	1.151	0.18	0.582	0.670
	FR1 n48_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	2	646000	3690	15.56	16.20	1.159	-0.1	0.543	0.629
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	2	641666	3624.99	15.61	16.20	1.146	0.01	0.564	0.646
	FR1 n48_Ant 5	20M	BPSK	25	12	Left Cheek	0mm	2	637334	3560.01	15.59	16.20	1.151	-0.15	0.560	0.644
	FR1 n48_Ant 5	30M	BPSK	36	18	Left Cheek	0mm	2	645666	3684.99	15.60	16.20	1.148	0.19	0.553	0.635
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	2	641666	3624.99	15.66	16.20	1.132	0.07	0.559	0.633
	FR1 n48_Ant 5	20M	BPSK	1	1	Left Tilted	0mm	2	637334	3560.01	15.59	16.20	1.151	-0.18	0.543	0.625
	FR1 n48_Ant 5	20M	BPSK	1	1	Left Tilted	0mm	2	646000	3690	15.56	16.20	1.159	0.03	0.524	0.607
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Tilted	0mm	2	641666	3624.99	15.61	16.20	1.146	-0.15	0.527	0.604
	FR1 n48_Ant 5	20M	BPSK	25	12	Left Tilted	0mm	2	637334	3560.01	15.59	16.20	1.151	-0.15	0.525	0.604
	FR1 n48_Ant 5	30M	BPSK	36	18	Left Tilted	0mm	2	645666	3684.99	15.60	16.20	1.148	0.11	0.514	0.590
	FR1 n48_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	3	641666	3624.985	14.69	15.00	1.074	0.19	0.287	0.308
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Cheek	0mm	3	641666	3624.99	14.64	15.00	1.086	-0.08	0.270	0.293
	FR1 n48_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	3	641666	3624.99	14.69	15.00	1.074	-0.17	0.262	0.281
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Tilted	0mm	3	641666	3624.99	14.64	15.00	1.086	-0.08	0.250	0.272
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	3	641666	3624.985	14.69	15.00	1.074	0.01	0.514	0.552
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Cheek	0mm	3	641666	3624.99	14.64	15.00	1.086	-0.04	0.486	0.528
	FR1 n48_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	3	641666	3624.99	14.69	15.00	1.074	-0.08	0.481	0.517
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Tilted	0mm	3	641666	3624.99	14.64	15.00	1.086	0.17	0.453	0.492
	FR1 n66_Ant 2	40M	BPSK	1	1	Right Cheek	0mm	2/3	349000	1745	24.26	25.00	1.186	0.03	0.383	0.454
	FR1 n66_Ant 2	40M	BPSK	108	54	Right Cheek	0mm	2/3	349000	1745	24.18	25.00	1.208	-0.02	0.405	0.489
	FR1 n66_Ant 2	40M	BPSK	1	1	Right Tilted	0mm	2/3	349000	1745	24.26	25.00	1.186	-0.08	0.196	0.232
	FR1 n66_Ant 2	40M	BPSK	108	54	Right Tilted	0mm	2/3	349000	1745	24.18	25.00	1.208	0.1	0.194	0.234
	FR1 n66_Ant 2	40M	BPSK	1	1	Left Cheek	0mm	2/3	349000	1745	24.26	25.00	1.186	-0.18	0.184	0.218
	FR1 n66_Ant 2	40M	BPSK	108	54	Left Cheek	0mm	2/3	349000	1745	24.18	25.00	1.208	-0.17	0.155	0.187
	FR1 n66_Ant 2	40M	BPSK	1	1	Left Tilted	0mm	2/3	349000	1745	24.26	25.00	1.186	0.12	0.124	0.147
	FR1 n66_Ant 2	40M	BPSK	108	54	Left Tilted	0mm	2/3	349000	1745	24.18	25.00	1.208	0.08	0.146	0.176
	FR1 n66_Ant 0	40M	BPSK	1	1	Right Cheek	0mm	2/3	349000	1745	24.00	24.10	1.023	-0.05	0.087	0.089
	FR1 n66_Ant 0	40M	BPSK	108	54	Right Cheek	0mm	2/3	349000	1745	23.91	24.10	1.045	-0.05	0.078	0.081
	FR1 n66_Ant 0	40M	BPSK	1	1	Right Tilted	0mm	2/3	349000	1745	24.00	24.10	1.023	0.18	0.047	0.048
	FR1 n66_Ant 0	40M	BPSK	108	54	Right Tilted	0mm	2/3	349000	1745	23.91	24.10	1.045	0.14	0.001	0.001
	FR1 n66_Ant 0	40M	BPSK	1	1	Left Cheek	0mm	2/3	349000	1745	24.00	24.10	1.023	-0.05	0.057	0.058
	FR1 n66_Ant 0	40M	BPSK	108	54	Left Cheek	0mm	2/3	349000	1745	23.91	24.10	1.045	0.17	0.050	0.052
	FR1 n66_Ant 0	40M	BPSK	1	1	Left Tilted	0mm	2/3	349000	1745	24.00	24.10	1.023	-0.05	0.038	0.039
	FR1 n66_Ant 0	40M	BPSK	108	54	Left Tilted	0mm	2/3	349000	1745	23.91	24.10	1.045	0.01	0.001	0.001
	FR1 n66_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	2	349000	1745	16.53	17.50	1.250	0.08	0.752	0.940
	FR1 n66_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	2	349000	1745	16.61	17.50	1.227	-0.02	0.767	0.941
	FR1 n66_Ant 1	40M	BPSK	216	0	Right Cheek	0mm	2	349000	1745	16.55	17.50	1.245	0.01	0.738	0.918
	FR1 n66_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	2	349000	1745	16.53	17.50	1.250	0.03	0.760	0.950
25	FR1 n66_Ant 1	40M	BPSK	108	54	Right Tilted	0mm	2	349000	1745	16.61	17.50	1.227	0.01	0.792	0.972
	FR1 n66_Ant 1	40M	BPSK	216	0	Right Tilted	0mm	2	349000	1745	16.55	17.50	1.245	-0.08	0.768	0.956
	FR1 n66_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	2	349000	1745	16.53	17.50	1.250	-0.08	0.225	0.281
	FR1 n66_Ant 1	40M	BPSK	108	54	Left Cheek	0mm	2	349000	1745	16.61	17.50	1.227	-0.07	0.263	0.323
	FR1 n66_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	2	349000	1745	16.53	17.50	1.250	0.1	0.243	0.304



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	FR1 n66_Ant 1	40M	BPSK	108	54	Left Tilted	0mm	2	349000	1745	16.61	17.50	1.227	-0.18	0.284	0.349
	FR1 n66_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	3	349000	1745	15.94	16.30	1.086	-0.12	0.627	0.681
	FR1 n66_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	3	349000	1745	16.09	16.30	1.050	0.07	0.660	0.693
	FR1 n66_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	3	349000	1745	15.94	16.30	1.086	-0.05	0.633	0.688
	FR1 n66_Ant 1	40M	BPSK	108	54	Right Tilted	0mm	3	349000	1745	16.09	16.30	1.050	-0.01	0.671	0.704
	FR1 n66_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	3	349000	1745	15.94	16.30	1.086	0.16	0.187	0.203
	FR1 n66_Ant 1	40M	BPSK	108	54	Left Cheek	0mm	3	349000	1745	16.09	16.30	1.050	0.01	0.222	0.233
	FR1 n66_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	3	349000	1745	15.94	16.30	1.086	-0.16	0.202	0.219
	FR1 n66_Ant 1	40M	BPSK	108	54	Left Tilted	0mm	3	349000	1745	16.09	16.30	1.050	0.1	0.240	0.252
	FR1 n66_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	2	349000	1745	16.61	17.7	1.285	0.08	0.285	0.366
	FR1 n66_Ant 5	40M	BPSK	108	54	Right Cheek	0mm	2	349000	1745	16.63	17.7	1.279	-0.18	0.296	0.379
	FR1 n66_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	2	349000	1745	16.61	17.7	1.285	0.01	0.091	0.117
	FR1 n66_Ant 5	40M	BPSK	108	54	Right Tilted	0mm	2	349000	1745	16.63	17.7	1.279	0.03	0.094	0.120
	FR1 n66_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	2	349000	1745	16.61	17.7	1.285	-0.08	0.674	0.866
	FR1 n66_Ant 5	40M	BPSK	108	54	Left Cheek	0mm	2	349000	1745	16.63	17.7	1.279	0.11	0.718	0.919
	FR1 n66_Ant 5	40M	BPSK	216	0	Left Cheek	0mm	2	349000	1745	16.64	17.7	1.276	-0.08	0.716	0.914
	FR1 n66_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	2	349000	1745	16.61	17.7	1.285	0.1	0.119	0.153
	FR1 n66_Ant 5	40M	BPSK	108	54	Left Tilted	0mm	2	349000	1745	16.63	17.7	1.279	-0.18	0.124	0.159
	FR1 n66_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	3	349000	1745	16.1	16.5	1.096	-0.05	0.211	0.231
	FR1 n66_Ant 5	40M	BPSK	108	54	Right Cheek	0mm	3	349000	1745	16.03	16.5	1.114	0	0.215	0.240
	FR1 n66_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	3	349000	1745	16.1	16.5	1.096	-0.13	0.067	0.073
	FR1 n66_Ant 5	40M	BPSK	108	54	Right Tilted	0mm	3	349000	1745	16.03	16.5	1.114	-0.01	0.068	0.076
	FR1 n66_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	3	349000	1745	16.1	16.5	1.096	-0.09	0.500	0.548
	FR1 n66_Ant 5	40M	BPSK	108	54	Left Cheek	0mm	3	349000	1745	16.03	16.5	1.114	0.01	0.539	0.601
	FR1 n66_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	3	349000	1745	16.1	16.5	1.096	-0.13	0.088	0.096
	FR1 n66_Ant 5	40M	BPSK	108	54	Left Tilted	0mm	3	349000	1745	16.03	16.5	1.114	0.17	0.090	0.100
	FR1 n70_Ant 2	15M	BPSK	1	1	Right Cheek	0mm	2/3	340500	1702.5	23.75	24.70	1.245	-0.08	0.457	0.569
26	FR1 n70_Ant 2	15M	BPSK	36	22	Right Cheek	0mm	2/3	340500	1702.5	23.64	24.70	1.276	-0.14	0.461	0.588
	FR1 n70_Ant 2	15M	BPSK	1	1	Right Tilted	0mm	2/3	340500	1702.5	23.75	24.70	1.245	0.05	0.206	0.256
	FR1 n70_Ant 2	15M	BPSK	36	22	Right Tilted	0mm	2/3	340500	1702.5	23.64	24.70	1.276	0.06	0.212	0.271
	FR1 n70_Ant 2	15M	BPSK	1	1	Left Cheek	0mm	2/3	340500	1702.5	23.75	24.70	1.245	-0.09	0.203	0.253
	FR1 n70_Ant 2	15M	BPSK	36	22	Left Cheek	0mm	2/3	340500	1702.5	23.64	24.70	1.276	-0.18	0.214	0.273
	FR1 n70_Ant 2	15M	BPSK	1	1	Left Tilted	0mm	2/3	340500	1702.5	23.75	24.70	1.245	-0.08	0.197	0.245
	FR1 n70_Ant 2	15M	BPSK	36	22	Right Cheek	0mm	2/3	340500	1702.5	23.64	24.70	1.276	0.13	0.192	0.245
	FR1 n70_Ant 0	15M	BPSK	1	1	Right Cheek	0mm	2/3	340500	1702.5	23.39	23.80	1.099	0.08	0.069	0.076
	FR1 n70_Ant 0	15M	BPSK	36	22	Right Cheek	0mm	2/3	340500	1702.5	23.29	23.80	1.125	-0.13	0.087	0.098
	FR1 n70_Ant 0	15M	BPSK	1	1	Right Tilted	0mm	2/3	340500	1702.5	23.39	23.80	1.099	0.01	0.044	0.048
	FR1 n70_Ant 0	15M	BPSK	36	22	Right Tilted	0mm	2/3	340500	1702.5	23.29	23.80	1.125	0.03	0.045	0.051
	FR1 n70_Ant 0	15M	BPSK	1	1	Left Cheek	0mm	2/3	340500	1702.5	23.39	23.80	1.099	0.08	0.064	0.070
	FR1 n70_Ant 0	15M	BPSK	36	22	Left Cheek	0mm	2/3	340500	1702.5	23.29	23.80	1.125	-0.08	0.063	0.071
	FR1 n70_Ant 0	15M	BPSK	1	1	Left Tilted	0mm	2/3	340500	1702.5	23.39	23.80	1.099	0.1	0.001	0.001
	FR1 n70_Ant 0	15M	BPSK	36	22	Left Tilted	0mm	2/3	340500	1702.5	23.29	23.80	1.125	-0.18	0.001	0.001
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Cheek	0mm	2/3	136100	680.5	24.60	25.10	1.122	-0.17	0.188	0.211
	FR1 n71_Ant 0	20M	BPSK	50	28	Right Cheek	0mm	2/3	136100	680.5	24.58	25.10	1.127	0.16	0.187	0.211
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Tilted	0mm	2/3	136100	680.5	24.60	25.10	1.122	-0.1	0.096	0.108
	FR1 n71_Ant 0	20M	BPSK	50	28	Right Tilted	0mm	2/3	136100	680.5	24.58	25.10	1.127	0.07	0.111	0.125
	FR1 n71_Ant 0	20M	BPSK	1	1	Left Cheek	0mm	2/3	136100	680.5	24.60	25.10	1.122	0.08	0.275	0.309
	FR1 n71_Ant 0	20M	BPSK	50	28	Left Cheek	0mm	2/3	136100	680.5	24.58	25.10	1.127	0.18	0.254	0.286
	FR1 n71_Ant 0	20M	BPSK	1	1	Left Tilted	0mm	2/3	136100	680.5	24.60	25.10	1.122	-0.1	0.133	0.149
	FR1 n71_Ant 0	20M	BPSK	50	28	Left Tilted	0mm	2/3	136100	680.5	24.58	25.10	1.127	0.01	0.135	0.152
27	FR1 n71_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	2	136100	680.5	23.32	24.00	1.169	0.04	0.793	0.927
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	2	136100	680.5	23.41	24.00	1.146	0.12	0.779	0.892
	FR1 n71_Ant 1	20M	BPSK	100	0	Right Cheek	0mm	2	136100	680.5	23.37	24.00	1.156	0.08	0.773	0.894
	FR1 n71_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	2	136100	680.5	23.32	24.00	1.169	0.01	0.682	0.798
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	2	136100	680.5	23.41	24.00	1.146	-0.17	0.658	0.754
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	2	136100	680.5	23.32	24.00	1.169	0	0.348	0.407



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	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	2	136100	680.5	23.41	24.00	1.146	0.14	0.355	0.407
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	2	136100	680.5	23.32	24.00	1.169	0.11	0.431	0.504
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	2	136100	680.5	23.41	24.00	1.146	-0.05	0.408	0.467
	FR1 n71_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	3	136100	680.5	22.44	22.80	1.086	-0.04	0.656	0.713
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	3	136100	680.5	22.37	22.80	1.104	-0.04	0.640	0.707
	FR1 n71_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	3	136100	680.5	22.44	22.80	1.086	0.11	0.555	0.603
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	3	136100	680.5	22.37	22.80	1.104	-0.02	0.541	0.597
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	3	136100	680.5	22.44	22.80	1.086	0.1	0.291	0.316
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	3	136100	680.5	22.37	22.80	1.104	0.04	0.285	0.315
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	3	136100	680.5	22.44	22.80	1.086	0.13	0.351	0.381
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	3	136100	680.5	22.37	22.80	1.104	-0.18	0.334	0.369
	FR1 n77_Ant 6	100M	BPSK	1	137	Right Cheek	0mm	2	656000	3840	21.62	23.40	1.507	0.08	0.230	0.347
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Cheek	0mm	2	656000	3840	21.60	23.40	1.514	0.04	0.234	0.354
	FR1 n77_Ant 6	100M	BPSK	1	137	Right Tilted	0mm	2	656000	3840	21.62	23.40	1.507	0.01	0.163	0.246
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Tilted	0mm	2	656000	3840	21.60	23.40	1.514	0.03	0.163	0.247
	FR1 n77_Ant 6	100M	BPSK	1	137	Left Cheek	0mm	2	656000	3840	21.62	23.40	1.507	-0.08	0.248	0.374
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Cheek	0mm	2	656000	3840	21.60	23.40	1.514	-0.05	0.295	0.447
	FR1 n77_Ant 6	100M	BPSK	1	137	Left Tilted	0mm	2	656000	3840	21.62	23.40	1.507	-0.08	0.114	0.172
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Tilted	0mm	2	656000	3840	21.60	23.40	1.514	0.1	0.118	0.179
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	137	Left Cheek	0mm	2	656000	3840	24.79	26.40	1.449	-0.18	0.298	0.432
	FR1 n77_Ant 6	100M	BPSK	1	137	Right Cheek	0mm	3	656000	3840	21.62	22.20	1.143	0.08	0.230	0.263
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Cheek	0mm	3	656000	3840	21.60	22.20	1.148	0.04	0.234	0.269
	FR1 n77_Ant 6	100M	BPSK	1	137	Right Tilted	0mm	3	656000	3840	21.62	22.20	1.143	0.01	0.163	0.186
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Tilted	0mm	3	656000	3840	21.60	22.20	1.148	0.03	0.163	0.187
	FR1 n77_Ant 6	100M	BPSK	1	137	Left Cheek	0mm	3	656000	3840	21.62	22.20	1.143	-0.08	0.248	0.283
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Cheek	0mm	3	656000	3840	21.60	22.20	1.148	-0.05	0.295	0.339
	FR1 n77_Ant 6	100M	BPSK	1	137	Left Tilted	0mm	3	656000	3840	21.62	22.20	1.143	-0.08	0.114	0.130
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Tilted	0mm	3	656000	3840	21.60	22.20	1.148	0.1	0.118	0.135
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	137	Left Cheek	0mm	3	656000	3840	24.79	25.20	1.099	-0.18	0.298	0.328
	FR1 n77_Ant 6	100M	BPSK	1	137	Right Cheek	0mm	2	633332	3499.98	21.73	23.40	1.469	0.1	0.216	0.317
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Cheek	0mm	2	633332	3499.98	21.69	23.40	1.483	-0.01	0.224	0.332
	FR1 n77_Ant 6	100M	BPSK	1	137	Right Tilted	0mm	2	633332	3499.98	21.73	23.40	1.469	0.12	0.222	0.326
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Tilted	0mm	2	633332	3499.98	21.69	23.40	1.483	0.08	0.217	0.322
	FR1 n77_Ant 6	100M	BPSK	1	137	Left Cheek	0mm	2	633332	3499.98	21.73	23.40	1.469	-0.17	0.264	0.388
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Cheek	0mm	2	633332	3499.98	21.69	23.40	1.483	0.04	0.316	0.468
	FR1 n77_Ant 6	100M	BPSK	1	137	Left Tilted	0mm	2	633332	3499.98	21.73	23.40	1.469	0.14	0.121	0.178
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Tilted	0mm	2	633332	3499.98	21.69	23.40	1.483	0.11	0.118	0.175
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	137	Left Cheek	0mm	2	633332	3499.98	24.81	26.40	1.442	-0.05	0.304	0.438
	FR1 n77_Ant 6	100M	BPSK	1	137	Right Cheek	0mm	3	633332	3499.98	21.73	22.20	1.114	0.1	0.216	0.241
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Cheek	0mm	3	633332	3499.98	21.69	22.20	1.125	-0.01	0.224	0.252
	FR1 n77_Ant 6	100M	BPSK	1	137	Right Tilted	0mm	3	633332	3499.98	21.73	22.20	1.114	0.12	0.222	0.247
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Tilted	0mm	3	633332	3499.98	21.69	22.20	1.125	0.08	0.217	0.244
	FR1 n77_Ant 6	100M	BPSK	1	137	Left Cheek	0mm	3	633332	3499.98	21.73	22.20	1.114	-0.17	0.264	0.294
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Cheek	0mm	3	633332	3499.98	21.69	22.20	1.125	0.04	0.316	0.355
	FR1 n77_Ant 6	100M	BPSK	1	137	Left Tilted	0mm	3	633332	3499.98	21.73	22.20	1.114	0.14	0.121	0.135
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Tilted	0mm	3	633332	3499.98	21.69	22.20	1.125	0.11	0.118	0.133
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	137	Left Cheek	0mm	3	633332	3499.98	24.81	25.20	1.094	-0.05	0.304	0.333
	FR1 n77_Ant 7	100M	BPSK	1	137	Right Cheek	0mm	2	656000	3840	23.73	24.70	1.250	0.08	0.529	0.661
	FR1 n77_Ant 7	100M	BPSK	135	69	Right Cheek	0mm	2	656000	3840	23.68	24.70	1.265	-0.04	0.616	0.779
	FR1 n77_Ant 7	100M	BPSK	1	137	Right Tilted	0mm	2	656000	3840	23.73	24.70	1.250	0.01	0.202	0.253
	FR1 n77_Ant 7	100M	BPSK	135	69	Right Tilted	0mm	2	656000	3840	23.68	24.70	1.265	0.03	0.191	0.242
	FR1 n77_Ant 7	100M	BPSK	1	137	Left Cheek	0mm	2	656000	3840	23.73	24.70	1.250	-0.08	0.321	0.401
	FR1 n77_Ant 7	100M	BPSK	135	69	Left Cheek	0mm	2	656000	3840	23.68	24.70	1.265	-0.16	0.352	0.445
	FR1 n77_Ant 7	100M	BPSK	1	137	Left Tilted	0mm	2	656000	3840	23.73	24.70	1.250	-0.08	0.303	0.379
	FR1 n77_Ant 7	100M	BPSK	135	69	Left Tilted	0mm	2	656000	3840	23.68	24.70	1.265	0.1	0.327	0.414
	FR1 n77_HPUE_Ant 7	100M	BPSK	1	137	Right Cheek	0mm	2	656000	3840	25.79	26.50	1.178	-0.18	0.510	0.601



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	FR1 n77_Ant 7	100M	BPSK	1	137	Right Cheek	0mm	3	656000	3840	23.73	23.80	1.016	0.08	0.529	0.538
	FR1 n77_Ant 7	100M	BPSK	135	69	Right Cheek	0mm	3	656000	3840	23.68	23.80	1.028	-0.04	0.616	0.633
	FR1 n77_Ant 7	100M	BPSK	1	137	Right Tilted	0mm	3	656000	3840	23.73	23.80	1.016	0.01	0.202	0.205
	FR1 n77_Ant 7	100M	BPSK	135	69	Right Tilted	0mm	3	656000	3840	23.68	23.80	1.028	0.03	0.191	0.196
	FR1 n77_Ant 7	100M	BPSK	1	137	Left Cheek	0mm	3	656000	3840	23.73	23.80	1.016	-0.08	0.321	0.326
	FR1 n77_Ant 7	100M	BPSK	135	69	Left Cheek	0mm	3	656000	3840	23.68	23.80	1.028	-0.16	0.352	0.362
	FR1 n77_Ant 7	100M	BPSK	1	137	Left Tilted	0mm	3	656000	3840	23.73	23.80	1.016	-0.08	0.303	0.308
	FR1 n77_Ant 7	100M	BPSK	135	69	Left Tilted	0mm	3	656000	3840	23.68	23.80	1.028	0.1	0.327	0.336
	FR1 n77_HPUE_Ant 7	100M	BPSK	1	137	Right Cheek	0mm	3	656000	3840	25.79	26.50	1.178	-0.18	0.510	0.601
	FR1 n77_Ant 7	100M	BPSK	1	137	Right Cheek	0mm	2	633332	3499.98	23.80	24.70	1.230	-0.04	0.658	0.810
	FR1 n77_Ant 7	100M	BPSK	135	69	Right Cheek	0mm	2	633332	3499.98	23.79	24.70	1.233	0.04	0.577	0.712
	FR1 n77_Ant 7	100M	BPSK	270	0	Right Cheek	0mm	2	633332	3499.98	23.22	24.20	1.253	0.11	0.585	0.733
	FR1 n77_Ant 7	100M	BPSK	1	137	Right Tilted	0mm	2	633332	3499.98	23.80	24.70	1.230	-0.01	0.218	0.268
	FR1 n77_Ant 7	100M	BPSK	135	69	Right Tilted	0mm	2	633332	3499.98	23.79	24.70	1.233	-0.08	0.224	0.276
	FR1 n77_Ant 7	100M	BPSK	1	137	Left Cheek	0mm	2	633332	3499.98	23.80	24.70	1.230	0.05	0.377	0.464
	FR1 n77_Ant 7	100M	BPSK	135	69	Left Cheek	0mm	2	633332	3499.98	23.79	24.70	1.233	0.08	0.383	0.472
	FR1 n77_Ant 7	100M	BPSK	1	137	Left Tilted	0mm	2	633332	3499.98	23.80	24.70	1.230	0.06	0.324	0.399
	FR1 n77_Ant 7	100M	BPSK	135	69	Left Tilted	0mm	2	633332	3499.98	23.79	24.70	1.233	-0.09	0.332	0.409
	FR1 n77_HPUE_Ant 7	100M	BPSK	1	137	Right Cheek	0mm	2	633332	3499.98	25.86	26.50	1.159	-0.08	0.522	0.605
	FR1 n77_Ant 7	100M	BPSK	1	137	Right Cheek	0mm	3	633332	3499.98	23.80	23.80	1.000	-0.04	0.658	0.658
	FR1 n77_Ant 7	100M	BPSK	135	69	Right Cheek	0mm	3	633332	3499.98	23.79	23.80	1.002	0.04	0.577	0.578
	FR1 n77_Ant 7	100M	BPSK	1	137	Right Tilted	0mm	3	633332	3499.98	23.80	23.80	1.000	-0.01	0.218	0.218
	FR1 n77_Ant 7	100M	BPSK	135	69	Right Tilted	0mm	3	633332	3499.98	23.79	23.80	1.002	-0.08	0.224	0.225
	FR1 n77_Ant 7	100M	BPSK	1	137	Left Cheek	0mm	3	633332	3499.98	23.80	23.80	1.000	0.05	0.377	0.377
	FR1 n77_Ant 7	100M	BPSK	135	69	Left Cheek	0mm	3	633332	3499.98	23.79	23.80	1.002	0.08	0.383	0.384
	FR1 n77_Ant 7	100M	BPSK	1	137	Left Tilted	0mm	3	633332	3499.98	23.80	23.80	1.000	0.06	0.324	0.324
	FR1 n77_Ant 7	100M	BPSK	135	69	Left Tilted	0mm	3	633332	3499.98	23.79	23.80	1.002	-0.09	0.332	0.333
	FR1 n77_HPUE_Ant 7	100M	BPSK	1	137	Right Cheek	0mm	3	633332	3499.98	25.86	26.50	1.159	-0.08	0.522	0.605
28	FR1 n77_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	656000	3840	14.75	15.70	1.245	0.09	0.751	0.935
	FR1 n77_Ant 1	100M	BPSK	135	0	Right Cheek	0mm	2	656000	3840	14.73	15.70	1.250	-0.05	0.632	0.790
	FR1 n77_Ant 1	100M	BPSK	270	0	Right Cheek	0mm	2	656000	3840	14.72	15.70	1.253	0.18	0.649	0.813
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	656000	3840	14.75	15.70	1.245	0.14	0.311	0.387
	FR1 n77_Ant 1	100M	BPSK	135	0	Right Tilted	0mm	2	656000	3840	14.73	15.70	1.250	0	0.312	0.390
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	2	656000	3840	14.75	15.70	1.245	0.12	0.177	0.220
	FR1 n77_Ant 1	100M	BPSK	135	0	Left Cheek	0mm	2	656000	3840	14.73	15.70	1.250	-0.05	0.145	0.181
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	2	656000	3840	14.75	15.70	1.245	0.01	0.191	0.238
	FR1 n77_Ant 1	100M	BPSK	135	0	Left Tilted	0mm	2	656000	3840	14.73	15.70	1.250	0.1	0.168	0.210
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	656000	3840	17.77	18.70	1.239	0.17	0.718	0.889
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	656000	3840	13.74	14.50	1.191	0.13	0.579	0.690
	FR1 n77_Ant 1	100M	BPSK	135	0	Right Cheek	0mm	3	656000	3840	13.72	14.50	1.197	-0.03	0.490	0.586
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	656000	3840	13.74	14.50	1.191	-0.07	0.239	0.285
	FR1 n77_Ant 1	100M	BPSK	135	0	Right Tilted	0mm	3	656000	3840	13.72	14.50	1.197	0.05	0.242	0.290
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	3	656000	3840	13.74	14.50	1.191	-0.11	0.136	0.162
	FR1 n77_Ant 1	100M	BPSK	135	0	Left Cheek	0mm	3	656000	3840	13.72	14.50	1.197	-0.12	0.112	0.134
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	3	656000	3840	13.74	14.50	1.191	0.03	0.146	0.174
	FR1 n77_Ant 1	100M	BPSK	135	0	Left Tilted	0mm	3	656000	3840	13.72	14.50	1.197	-0.16	0.130	0.156
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	656000	3840	16.75	17.50	1.189	-0.02	0.552	0.656
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	633332	3499.98	14.83	15.70	1.222	0.1	0.512	0.626
	FR1 n77_Ant 1	100M	BPSK	135	0	Right Cheek	0mm	2	633332	3499.98	14.76	15.70	1.242	0.1	0.420	0.521
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	2	633332	3499.98	14.83	15.70	1.222	0.03	0.388	0.474
	FR1 n77_Ant 1	100M	BPSK	135	0	Right Tilted	0mm	2	633332	3499.98	14.76	15.70	1.242	0.08	0.325	0.404
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	2	633332	3499.98	14.83	15.70	1.222	0.05	0.233	0.285
	FR1 n77_Ant 1	100M	BPSK	135	0	Left Cheek	0mm	2	633332	3499.98	14.76	15.70	1.242	-0.17	0.218	0.271
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	2	633332	3499.98	14.83	15.70	1.222	-0.03	0.274	0.335
	FR1 n77_Ant 1	100M	BPSK	135	0	Left Tilted	0mm	2	633332	3499.98	14.76	15.70	1.242	0.14	0.261	0.324
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	2	633332	3499.98	17.88	18.70	1.208	0.11	0.488	0.589



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	FR1 n77_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	633332	3499.98	13.76	14.50	1.186	-0.06	0.414	0.491
	FR1 n77_Ant 1	100M	BPSK	135	0	Right Cheek	0mm	3	633332	3499.98	13.69	14.50	1.205	-0.04	0.342	0.412
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Tilted	0mm	3	633332	3499.98	13.76	14.50	1.186	-0.08	0.313	0.371
	FR1 n77_Ant 1	100M	BPSK	135	0	Right Tilted	0mm	3	633332	3499.98	13.69	14.50	1.205	0.17	0.264	0.318
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Cheek	0mm	3	633332	3499.98	13.76	14.50	1.186	0.18	0.188	0.223
	FR1 n77_Ant 1	100M	BPSK	135	0	Left Cheek	0mm	3	633332	3499.98	13.69	14.50	1.205	-0.04	0.177	0.213
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Tilted	0mm	3	633332	3499.98	13.76	14.50	1.186	-0.08	0.221	0.262
	FR1 n77_Ant 1	100M	BPSK	135	0	Left Tilted	0mm	3	633332	3499.98	13.69	14.50	1.205	-0.13	0.211	0.254
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Right Cheek	0mm	3	633332	3499.98	16.78	17.50	1.180	-0.13	0.392	0.463
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	2	656000	3840	15.29	16.8	1.416	0.1	0.116	0.164
	FR1 n77_Ant 5	100M	BPSK	135	0	Right Cheek	0mm	2	656000	3840	15.25	16.8	1.429	0.08	0.119	0.170
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	2	656000	3840	15.29	16.8	1.416	0.01	0.132	0.187
	FR1 n77_Ant 5	100M	BPSK	135	0	Right Tilted	0mm	2	656000	3840	15.25	16.8	1.429	0.03	0.116	0.166
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	656000	3840	15.29	16.8	1.416	0.11	0.403	0.571
	FR1 n77_Ant 5	100M	BPSK	135	0	Left Cheek	0mm	2	656000	3840	15.25	16.8	1.429	-0.08	0.392	0.560
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	2	656000	3840	15.29	16.8	1.416	-0.08	0.228	0.323
	FR1 n77_Ant 5	100M	BPSK	135	0	Left Tilted	0mm	2	656000	3840	15.25	16.8	1.429	0.1	0.224	0.320
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	656000	3840	18.5	19.8	1.349	-0.18	0.389	0.525
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	3	656000	3840	15.29	15.6	1.074	0.1	0.116	0.125
	FR1 n77_Ant 5	100M	BPSK	135	0	Right Cheek	0mm	3	656000	3840	15.25	15.6	1.084	0.08	0.119	0.129
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	3	656000	3840	15.29	15.6	1.074	0.01	0.132	0.142
	FR1 n77_Ant 5	100M	BPSK	135	0	Right Tilted	0mm	3	656000	3840	15.25	15.6	1.084	0.03	0.116	0.126
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	656000	3840	15.29	15.6	1.074	0.11	0.403	0.433
	FR1 n77_Ant 5	100M	BPSK	135	0	Left Cheek	0mm	3	656000	3840	15.25	15.6	1.084	-0.08	0.392	0.425
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	3	656000	3840	15.29	15.6	1.074	-0.08	0.228	0.245
	FR1 n77_Ant 5	100M	BPSK	135	0	Left Tilted	0mm	3	656000	3840	15.25	15.6	1.084	0.1	0.224	0.243
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	656000	3840	18.5	18.6	1.023	-0.18	0.389	0.398
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	2	633332	3499.98	15.5	16.8	1.349	0.01	0.107	0.144
	FR1 n77_Ant 5	100M	BPSK	135	0	Right Cheek	0mm	2	633332	3499.98	15.46	16.8	1.361	0.1	0.065	0.088
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	2	633332	3499.98	15.5	16.8	1.349	0.12	0.073	0.098
	FR1 n77_Ant 5	100M	BPSK	135	0	Right Tilted	0mm	2	633332	3499.98	15.46	16.8	1.361	0.08	0.065	0.088
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	633332	3499.98	15.5	16.8	1.349	0.07	0.339	0.457
	FR1 n77_Ant 5	100M	BPSK	135	0	Left Cheek	0mm	2	633332	3499.98	15.46	16.8	1.361	-0.17	0.259	0.353
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	2	633332	3499.98	15.5	16.8	1.349	-0.03	0.135	0.182
	FR1 n77_Ant 5	100M	BPSK	135	0	Left Tilted	0mm	2	633332	3499.98	15.46	16.8	1.361	0.14	0.120	0.163
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	2	633332	3499.98	18.55	19.8	1.334	0.11	0.312	0.416
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	3	633332	3499.98	15.5	15.6	1.023	0.01	0.107	0.109
	FR1 n77_Ant 5	100M	BPSK	135	0	Right Cheek	0mm	3	633332	3499.98	15.46	15.6	1.033	0.1	0.065	0.067
	FR1 n77_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	3	633332	3499.98	15.5	15.6	1.023	0.12	0.073	0.075
	FR1 n77_Ant 5	100M	BPSK	135	0	Right Tilted	0mm	3	633332	3499.98	15.46	15.6	1.033	0.08	0.065	0.067
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	633332	3499.98	15.5	15.6	1.023	0.07	0.339	0.347
	FR1 n77_Ant 5	100M	BPSK	135	0	Left Cheek	0mm	3	633332	3499.98	15.46	15.6	1.033	-0.17	0.259	0.267
	FR1 n77_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	3	633332	3499.98	15.5	15.6	1.023	-0.03	0.135	0.138
	FR1 n77_Ant 5	100M	BPSK	135	0	Left Tilted	0mm	3	633332	3499.98	15.46	15.6	1.033	0.14	0.120	0.124
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	3	633332	3499.98	18.55	18.6	1.012	0.11	0.312	0.316



<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
29	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	1	11	2462	16.33	17.00	1.167	100	1.000	-0.09	0.592	0.691
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	1	11	2462	16.33	17.00	1.167	100	1.000	0.03	0.085	0.099
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	1	11	2462	16.33	17.00	1.167	100	1.000	-0.08	0.294	0.343
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	1	11	2462	16.33	17.00	1.167	100	1.000	0.14	0.069	0.081
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	1	6	2437	15.67	17.00	1.358	100	1.000	0.08	0.083	0.113
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	1	6	2437	15.67	17.00	1.358	100	1.000	0.01	0.068	0.092
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	6	2437	15.67	17.00	1.358	100	1.000	0.15	0.397	0.539
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	6	2437	15.67	17.00	1.358	100	1.000	-0.08	0.160	0.217
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3+4(3)	1	11	2462	16.71	17.00	1.069	100	1.000	0.08	0.588	0.629
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3+4(4)	1	11	2462	15.23	17.00	1.503	100	1.000	0.08	0.139	0.209
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3+4(3)	1	11	2462	16.71	17.00	1.069	100	1.000	-0.17	0.074	0.079
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3+4(4)	1	11	2462	15.23	17.00	1.503	100	1.000	-0.17	0.180	0.271
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3+4(3)	1	11	2462	16.71	17.00	1.069	100	1.000	-0.01	0.299	0.320
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3+4(4)	1	11	2462	15.23	17.00	1.503	100	1.000	-0.01	0.294	0.442
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3+4(3)	1	11	2462	16.71	17.00	1.069	100	1.000	0.05	0.048	0.051
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3+4(4)	1	11	2462	15.23	17.00	1.503	100	1.000	0.05	0.152	0.228
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	2	11	2462	11.39	12.00	1.151	100	1.000	-0.19	0.195	0.224
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	2	11	2462	11.39	12.00	1.151	100	1.000	-0.11	0.145	0.167
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	2	11	2462	11.39	12.00	1.151	100	1.000	0.1	0.086	0.099
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	2	11	2462	11.39	12.00	1.151	100	1.000	0.13	0.018	0.021
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	2	11	2462	11.41	12.00	1.146	100	1.000	0.1	0.039	0.045
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	2	11	2462	11.41	12.00	1.146	100	1.000	-0.18	0.022	0.025
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	2	11	2462	11.41	12.00	1.146	100	1.000	0.1	0.165	0.189
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	2	11	2462	11.41	12.00	1.146	100	1.000	0.12	0.061	0.070
30	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3+4(3)	2	6	2437	11.95	12.00	1.012	100	1.000	-0.17	0.192	0.194
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3+4(4)	2	6	2437	11.30	12.00	1.175	100	1.000	-0.17	0.056	0.066
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3+4(3)	2	6	2437	11.95	12.00	1.012	100	1.000	0.14	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3+4(4)	2	6	2437	11.30	12.00	1.175	100	1.000	0.14	0.026	0.031
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3+4(3)	2	6	2437	11.95	12.00	1.012	100	1.000	-0.05	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3+4(4)	2	6	2437	11.30	12.00	1.175	100	1.000	-0.05	0.109	0.128
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3+4(3)	2	6	2437	11.95	12.00	1.012	100	1.000	0.14	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3+4(4)	2	6	2437	11.30	12.00	1.175	100	1.000	0.14	0.056	0.066
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(3)	1	58	5290	14.00	14.00	1.000	97.76	1.023	0.1	0.740	0.757
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(4)	1	58	5290	12.80	14.00	1.318	97.76	1.023	0.1	0.167	0.225
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(3)	1	58	5290	14.00	14.00	1.000	97.76	1.023	0.03	0.467	0.478
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(4)	1	58	5290	12.80	14.00	1.318	97.76	1.023	0.03	0.114	0.154
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(3)	1	58	5290	14.00	14.00	1.000	97.76	1.023	-0.17	0.347	0.355
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(4)	1	58	5290	12.80	14.00	1.318	97.76	1.023	-0.17	0.187	0.252
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(3)	1	58	5290	14.00	14.00	1.000	97.76	1.023	0.02	0.028	0.029
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(4)	1	58	5290	12.80	14.00	1.318	97.76	1.023	0.02	0.311	0.419
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	58	5290	9.33	9.50	1.040	97.76	1.023	-0.17	0.270	0.287
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	58	5290	8.33	9.50	1.309	97.76	1.023	-0.17	0.036	0.048
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(3)	2	58	5290	9.33	9.50	1.040	97.76	1.023	0.1	0.158	0.168
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(4)	2	58	5290	8.33	9.50	1.309	97.76	1.023	0.1	0.047	0.063
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(3)	2	58	5290	9.33	9.50	1.040	97.76	1.023	-0.13	0.070	0.074
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(4)	2	58	5290	8.33	9.50	1.309	97.76	1.023	-0.13	0.173	0.232
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(3)	2	58	5290	9.33	9.50	1.040	97.76	1.023	0.06	0.110	0.117
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(4)	2	58	5290	8.33	9.50	1.309	97.76	1.023	0.06	0.077	0.103
31	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(3)	1	122	5610	13.31	13.50	1.045	97.76	1.023	0.03	0.740	0.791
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(4)	1	122	5610	13.26	13.50	1.057	97.76	1.023	0.03	0.146	0.158



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	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(3)	1	122	5610	13.31	13.50	1.045	97.76	1.023	0.07	0.394	0.421
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(4)	1	122	5610	13.26	13.50	1.057	97.76	1.023	0.07	0.128	0.138
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(3)	1	122	5610	13.31	13.50	1.045	97.76	1.023	0.13	0.550	0.588
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(4)	1	122	5610	13.26	13.50	1.057	97.76	1.023	0.13	0.124	0.134
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(3)	1	122	5610	13.31	13.50	1.045	97.76	1.023	-0.14	0.048	0.051
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(4)	1	122	5610	13.26	13.50	1.057	97.76	1.023	-0.14	0.272	0.294
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	114	5570	7.69	9.50	1.517	95.8	1.044	-0.1	0.125	0.198
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	114	5570	7.69	9.50	1.517	95.8	1.044	-0.1	0.022	0.035
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(3)	2	114	5570	7.69	9.50	1.517	95.8	1.044	-0.12	0.132	0.209
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(4)	2	114	5570	7.69	9.50	1.517	95.8	1.044	-0.12	0.001	0.002
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(3)	2	114	5570	7.69	9.50	1.517	95.8	1.044	0.01	0.019	0.030
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(4)	2	114	5570	7.69	9.50	1.517	95.8	1.044	0.01	0.127	0.201
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(3)	2	114	5570	7.69	9.50	1.517	95.8	1.044	-0.1	0.037	0.059
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(4)	2	114	5570	7.69	9.50	1.517	95.8	1.044	-0.1	0.023	0.036
32	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(3)	1	155	5775	13.91	14.00	1.021	97.76	1.023	0.11	0.697	0.728
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(4)	1	155	5775	13.25	14.00	1.189	97.76	1.023	0.11	0.129	0.157
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(3)	1	155	5775	13.91	14.00	1.021	97.76	1.023	0.01	0.196	0.205
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(4)	1	155	5775	13.25	14.00	1.189	97.76	1.023	0.01	0.126	0.153
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(3)	1	155	5775	13.91	14.00	1.021	97.76	1.023	0.17	0.454	0.474
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(4)	1	155	5775	13.25	14.00	1.189	97.76	1.023	0.17	0.082	0.100
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(3)	1	155	5775	13.91	14.00	1.021	97.76	1.023	-0.05	0.076	0.079
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(4)	1	155	5775	13.25	14.00	1.189	97.76	1.023	-0.05	0.317	0.385
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	155	5775	9.20	10.50	1.349	97.76	1.023	-0.04	0.209	0.288
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	155	5775	8.80	10.50	1.479	97.76	1.023	-0.04	0.027	0.041
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(3)	2	155	5775	9.20	10.50	1.349	97.76	1.023	-0.15	0.050	0.069
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 3+4(4)	2	155	5775	8.80	10.50	1.479	97.76	1.023	-0.15	0.034	0.051
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(3)	2	155	5775	9.20	10.50	1.349	97.76	1.023	-0.06	0.012	0.017
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 3+4(4)	2	155	5775	8.80	10.50	1.479	97.76	1.023	-0.06	0.109	0.165
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(3)	2	155	5775	9.20	10.50	1.349	97.76	1.023	0.1	0.116	0.160
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 3+4(4)	2	155	5775	8.80	10.50	1.479	97.76	1.023	0.1	0.023	0.035
33	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1	163	5815	13.83	14.50	1.167	95.81	1.044	0.11	0.589	0.717
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1	163	5815	12.84	14.50	1.466	95.81	1.044	0.11	0.191	0.292
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(3)	1	163	5815	13.83	14.50	1.167	95.81	1.044	0.17	0.126	0.153
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(4)	1	163	5815	12.84	14.50	1.466	95.81	1.044	0.17	0.100	0.153
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(3)	1	163	5815	13.83	14.50	1.167	95.81	1.044	0.02	0.450	0.548
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(4)	1	163	5815	12.84	14.50	1.466	95.81	1.044	0.02	0.085	0.130
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(3)	1	163	5815	13.83	14.50	1.167	95.81	1.044	-0.15	0.087	0.106
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(4)	1	163	5815	12.84	14.50	1.466	95.81	1.044	-0.15	0.270	0.413
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	163	5815	8.49	9.50	1.262	95.81	1.044	-0.14	0.179	0.236
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	163	5815	7.82	9.50	1.472	95.81	1.044	-0.14	0.041	0.063
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(3)	2	163	5815	8.49	9.50	1.262	95.81	1.044	-0.11	0.041	0.054
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 3+4(4)	2	163	5815	7.82	9.50	1.472	95.81	1.044	-0.11	0.033	0.051
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(3)	2	163	5815	8.49	9.50	1.262	95.81	1.044	0.07	0.020	0.026
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 3+4(4)	2	163	5815	7.82	9.50	1.472	95.81	1.044	0.07	0.172	0.264
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(3)	2	163	5815	8.49	9.50	1.262	95.81	1.044	0.09	0.020	0.026
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 3+4(4)	2	163	5815	7.82	9.50	1.472	95.81	1.044	0.09	0.122	0.188



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	1	143	6665	14.60	15.50	1.230	95.24	1.050	0.01	0.335	0.433	2.31	2.984
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	1	143	6665	13.66	15.50	1.528	95.24	1.050	0.01	0.108	0.173	0.683	1.095
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 3+4(3)	1	143	6665	14.60	15.50	1.230	95.24	1.050	0.12	0.141	0.182	0.853	1.102
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 3+4(4)	1	143	6665	13.66	15.50	1.528	95.24	1.050	0.12	0.098	0.157	0.636	1.020
34	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(3)	1	143	6665	14.60	15.50	1.230	95.24	1.050	-0.13	0.085	0.110	0.604	0.780
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(4)	1	143	6665	13.66	15.50	1.528	95.24	1.050	-0.13	0.340	0.545	1.99	3.192
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(3)	1	15	6025	12.71	14.50	1.510	95.24	1.050	0.1	0.075	0.119	0.484	0.767
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(4)	1	15	6025	13.51	14.50	1.256	95.24	1.050	0.1	0.355	0.468	2.41	3.178
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(3)	1	47	6185	13.14	14.50	1.368	95.24	1.050	-0.18	0.070	0.101	0.431	0.619
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(4)	1	47	6185	14.33	14.50	1.040	95.24	1.050	-0.18	0.251	0.274	1.69	1.845
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(3)	1	111	6505	14.69	15.00	1.074	95.24	1.050	-0.16	0.145	0.164	1.03	1.162
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(4)	1	111	6505	14.52	15.00	1.117	95.24	1.050	-0.16	0.397	0.466	2.46	2.885
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(3)	1	207	6985	14.96	15.00	1.009	95.24	1.050	-0.15	0.079	0.084	0.535	0.567
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(4)	1	207	6985	14.26	15.00	1.186	95.24	1.050	-0.15	0.265	0.330	1.63	2.029
	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 3+4(3)	1	143	6665	14.60	15.50	1.230	95.24	1.050	0.1	0.111	0.143	1.53	1.976
	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 3+4(4)	1	143	6665	13.66	15.50	1.528	95.24	1.050	0.1	0.275	0.441	0.665	1.067
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	207	6985	13.48	13.50	1.005	95.24	1.050	0.1	0.269	0.284	1.97	2.078
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	207	6985	13.31	13.50	1.045	95.24	1.050	0.1	0.062	0.068	0.332	0.364
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	15	6025	10.80	11.50	1.175	95.24	1.050	0.1	0.228	0.281	1.2	1.480
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	15	6025	11.16	11.50	1.081	95.24	1.050	0.1	0.073	0.083	0.484	0.550
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	47	6185	11.34	11.50	1.038	95.24	1.050	0.03	0.204	0.222	1.08	1.177
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	47	6185	11.40	11.50	1.023	95.24	1.050	0.03	0.047	0.050	0.279	0.300
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	111	6505	10.25	10.50	1.059	95.24	1.050	0.03	0.223	0.248	1.35	1.501
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	111	6505	10.25	10.50	1.059	95.24	1.050	0.03	0.040	0.044	0.248	0.276
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(3)	2	143	6665	11.53	12.00	1.114	95.24	1.050	0.03	0.240	0.281	1.5	1.755
	WLAN6GHz	802.11ax-HE160 MCS0	Right Cheek	0mm	Ant 3+4(4)	2	143	6665	11.53	12.00	1.114	95.24	1.050	0.03	0.057	0.067	0.32	0.374
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 3+4(3)	2	207	6985	13.48	13.50	1.005	95.24	1.050	-0.02	0.190	0.200	1.05	1.108
	WLAN6GHz	802.11ax-HE160 MCS0	Right Tilted	0mm	Ant 3+4(4)	2	207	6985	13.31	13.50	1.045	95.24	1.050	-0.02	0.069	0.076	0.397	0.435
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(3)	2	207	6985	13.48	13.50	1.005	95.24	1.050	0.02	0.040	0.042	0.215	0.227
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 3+4(4)	2	207	6985	13.31	13.50	1.045	95.24	1.050	0.02	0.223	0.245	1.28	1.404
	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 3+4(3)	2	207	6985	13.48	13.50	1.005	95.24	1.050	0.02	0.072	0.076	0.411	0.434
	WLAN6GHz	802.11ax-HE160 MCS0	Left Tilted	0mm	Ant 3+4(4)	2	207	6985	13.31	13.50	1.045	95.24	1.050	0.02	0.168	0.184	1.03	1.130

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	1	0	2402	13.46	13.50	1.009	77.07	1.081	-0.1	0.215	0.235
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3	1	0	2402	13.46	13.50	1.009	77.07	1.081	0.19	0.039	0.043
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	1	0	2402	13.46	13.50	1.009	77.07	1.081	0.08	0.120	0.131
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3	1	0	2402	13.46	13.50	1.009	77.07	1.081	0.07	0.021	0.023
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	1	39	2441	13.49	13.50	1.002	76.93	1.083	0.14	0.054	0.059
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	1	39	2441	13.49	13.50	1.002	76.93	1.083	-0.1	0.017	0.018
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	1	39	2441	13.49	13.50	1.002	76.93	1.083	0.12	0.149	0.162
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	1	39	2441	13.49	13.50	1.002	76.93	1.083	0.07	0.058	0.063
35	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3+4(3)	1	78	2480	12.45	12.50	1.012	76.96	1.082	-0.18	0.218	0.239
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3+4(4)	1	78	2480	12.50	12.50	1.000	76.96	1.082	-0.18	0.057	0.062
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3+4(3)	1	78	2480	12.45	12.50	1.012	76.96	1.082	0.1	0.073	0.080
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3+4(4)	1	78	2480	12.50	12.50	1.000	76.96	1.082	0.1	0.001	0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3+4(3)	1	78	2480	12.45	12.50	1.012	76.96	1.082	-0.12	0.121	0.132
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3+4(4)	1	78	2480	12.50	12.50	1.000	76.96	1.082	-0.12	0.137	0.148
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3+4(3)	1	78	2480	12.45	12.50	1.012	76.96	1.082	-0.15	0.018	0.020
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3+4(4)	1	78	2480	12.50	12.50	1.000	76.96	1.082	-0.15	0.093	0.101

<Tread SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
36	Thread	250K	Right Cheek	0mm	Ant 3	1	26	2480	10.70	11.00	1.072	89.87	1.001	0.17	0.186	0.200
	Thread	250K	Right Tilted	0mm	Ant 3	1	26	2480	10.70	11.00	1.072	89.87	1.001	0.15	0.033	0.035
	Thread	250K	Left Cheek	0mm	Ant 3	1	26	2480	10.70	11.00	1.072	89.87	1.001	0.11	0.102	0.109
	Thread	250K	Left Tilted	0mm	Ant 3	1	26	2480	10.70	11.00	1.072	89.87	1.001	-0.12	0.029	0.031

14.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	4	251	848.8	27.23	27.80	1.140	0.01	0.398	0.454
37	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	4	251	848.8	27.23	27.80	1.140	0.03	0.617	0.704
	GSM850_Ant 0	GPRS (4 Tx slots)	Left Edge	10mm	4	251	848.8	27.23	27.80	1.140	0.03	0.508	0.579
	GSM850_Ant 0	GPRS (4 Tx slots)	Right Edge	10mm	4	251	848.8	27.23	27.80	1.140	0.12	0.197	0.225
	GSM850_Ant 0	GPRS (4 Tx slots)	Bottom Edge	10mm	4	251	848.8	27.23	27.80	1.140	0.08	0.463	0.528
	GSM850_Ant 1	GPRS (4 Tx slots)	Front	10mm	4	189	836.4	28.55	30.10	1.429	-0.01	0.436	0.623
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	4	189	836.4	28.55	30.10	1.429	-0.14	0.448	0.640
	GSM850_Ant 1	GPRS (4 Tx slots)	Left Edge	10mm	4	189	836.4	28.55	30.10	1.429	0.02	0.247	0.353
	GSM850_Ant 1	GPRS (4 Tx slots)	Right Edge	10mm	4	189	836.4	28.55	30.10	1.429	0.03	0.226	0.323
	GSM850_Ant 1	GPRS (4 Tx slots)	Top Edge	10mm	4	189	836.4	28.55	30.10	1.429	-0.08	0.252	0.360
	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	4	661	1880	23.75	24.50	1.189	0.02	0.328	0.390
	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	4	661	1880	23.75	24.50	1.189	0.03	0.340	0.404
	GSM1900_Ant 2	GPRS (4 Tx slots)	Left Edge	10mm	4	661	1880	23.75	24.50	1.189	0.08	0.098	0.116
	GSM1900_Ant 2	GPRS (4 Tx slots)	Right Edge	10mm	4	661	1880	23.75	24.50	1.189	0.02	0.489	0.581
	GSM1900_Ant 2	GPRS (4 Tx slots)	Bottom Edge	10mm	4	661	1880	23.75	24.50	1.189	0.01	0.160	0.190
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	4	661	1880	19.58	20.80	1.324	-0.09	0.413	0.547
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	4	661	1880	19.58	20.80	1.324	-0.07	0.463	0.613
	GSM1900_Ant 0	GPRS (4 Tx slots)	Left Edge	10mm	4	661	1880	19.58	20.80	1.324	0.01	0.061	0.081
	GSM1900_Ant 0	GPRS (4 Tx slots)	Right Edge	10mm	4	661	1880	19.58	20.80	1.324	0.1	0.001	0.001
38	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Edge	10mm	4	661	1880	19.58	20.80	1.324	0.06	0.624	0.826
	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Edge	10mm	4	512	1850.2	19.36	20.80	1.393	-0.18	0.555	0.773
	GSM1900_Ant 0	GPRS (4 Tx slots)	Bottom Edge	10mm	4	810	1909.8	19.54	20.80	1.337	0.1	0.610	0.815

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Ant 2	RMC 12.2Kbps	Front	10mm	4	9400	1880	21.96	22.00	1.009	-0.12	0.450	0.454
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	4	9400	1880	21.96	22.00	1.009	0.09	0.457	0.461
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Edge	10mm	4	9400	1880	21.96	22.00	1.009	0.06	0.107	0.108
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Edge	10mm	4	9400	1880	21.96	22.00	1.009	-0.03	0.578	0.583
	WCDMA II_Ant 2	RMC 12.2Kbps	Bottom Edge	10mm	4	9400	1880	21.96	22.00	1.009	0.11	0.012	0.012
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	4	9400	1880	16.87	17.50	1.156	-0.1	0.390	0.451
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	4	9400	1880	16.87	17.50	1.156	-0.03	0.471	0.545
	WCDMA II_Ant 0	RMC 12.2Kbps	Left Edge	10mm	4	9400	1880	16.87	17.50	1.156	0.17	0.083	0.096
	WCDMA II_Ant 0	RMC 12.2Kbps	Right Edge	10mm	4	9400	1880	16.87	17.50	1.156	-0.01	0.001	0.001
39	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Edge	10mm	4	9400	1880	16.87	17.50	1.156	-0.01	0.667	0.771
	WCDMA IV_Ant 2	RMC 12.2Kbps	Front	10mm	4	1413	1732.6	21.12	22.00	1.225	-0.15	0.327	0.400
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	4	1413	1732.6	21.12	22.00	1.225	-0.01	0.347	0.425
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Edge	10mm	4	1413	1732.6	21.12	22.00	1.225	-0.14	0.045	0.055
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Edge	10mm	4	1413	1732.6	21.12	22.00	1.225	-0.01	0.350	0.429
	WCDMA IV_Ant 2	RMC 12.2Kbps	Bottom Edge	10mm	4	1413	1732.6	21.12	22.00	1.225	0.12	0.230	0.282
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	4	1413	1732.6	18.10	18.70	1.148	-0.1	0.456	0.524
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	4	1413	1732.6	18.10	18.70	1.148	-0.03	0.576	0.661
	WCDMA IV_Ant 0	RMC 12.2Kbps	Left Edge	10mm	4	1413	1732.6	18.10	18.70	1.148	-0.15	0.113	0.130
	WCDMA IV_Ant 0	RMC 12.2Kbps	Right Edge	10mm	4	1413	1732.6	18.10	18.70	1.148	-0.17	0.001	0.001
40	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Edge	10mm	4	1413	1732.6	18.10	18.70	1.148	-0.04	0.737	0.846
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Edge	10mm	4	1312	1712.4	18.03	18.70	1.167	0.17	0.699	0.816
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Edge	10mm	4	1513	1752.6	17.89	18.70	1.205	-0.05	0.627	0.756
	WCDMA V_Ant 0	RMC 12.2Kbps	Front	10mm	4	4182	836.4	24.58	24.90	1.076	-0.01	0.385	0.414
41	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.58	24.90	1.076	-0.03	0.587	0.632
	WCDMA V_Ant 0	RMC 12.2Kbps	Left Edge	10mm	4	4182	836.4	24.58	24.90	1.076	-0.02	0.535	0.576
	WCDMA V_Ant 0	RMC 12.2Kbps	Right Edge	10mm	4	4182	836.4	24.58	24.90	1.076	0.01	0.239	0.257
	WCDMA V_Ant 0	RMC 12.2Kbps	Bottom Edge	10mm	4	4182	836.4	24.58	24.90	1.076	0.03	0.470	0.506
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	10mm	4	4182	836.4	24.24	25.10	1.219	0.01	0.329	0.401
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	4	4182	836.4	24.24	25.10	1.219	-0.04	0.402	0.490
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Edge	10mm	4	4182	836.4	24.24	25.10	1.219	-0.02	0.178	0.217
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Edge	10mm	4	4182	836.4	24.24	25.10	1.219	-0.03	0.253	0.308
	WCDMA V_Ant 1	RMC 12.2Kbps	Top Edge	10mm	4	4182	836.4	24.24	25.10	1.219	-0.18	0.196	0.239

**<LTE SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	4	21100	2535	19.50	19.90	1.096			0.03	0.266	0.292
	LTE Band 7_Ant 2	20M	QPSK	50	0	Front	10mm	4	21100	2535	19.51	19.90	1.094			-0.12	0.310	0.339
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	4	21100	2535	19.50	19.90	1.096			-0.09	0.330	0.362
	LTE Band 7_Ant 2	20M	QPSK	50	0	Back	10mm	4	21100	2535	19.51	19.90	1.094			-0.08	0.324	0.354
	LTE Band 7_Ant 2	20M	QPSK	1	0	Left Edge	10mm	4	21100	2535	19.50	19.90	1.096			0.1	0.038	0.042
	LTE Band 7_Ant 2	20M	QPSK	50	0	Left Edge	10mm	4	21100	2535	19.51	19.90	1.094			-0.18	0.001	0.001
	LTE Band 7_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	21100	2535	19.50	19.90	1.096			-0.06	0.489	0.536
	LTE Band 7_Ant 2	20M	QPSK	50	0	Right Edge	10mm	4	21100	2535	19.51	19.90	1.094			0.1	0.484	0.529
	LTE Band 7_Ant 2	20M	QPSK	1	0	Bottom Edge	10mm	4	21100	2535	19.50	19.90	1.096			0.12	0.134	0.147
	LTE Band 7_Ant 2	20M	QPSK	50	0	Bottom Edge	10mm	4	21100	2535	19.51	19.90	1.094			0.08	0.122	0.133
	CA_7C_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	21350	2560	19.88	19.90	1.005			0.06	0.477	0.479
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	4	21100	2535	17.47	18.80	1.358			0.14	0.343	0.466
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	4	21100	2535	17.41	18.80	1.377			0.08	0.276	0.380
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	4	21100	2535	17.47	18.80	1.358			-0.09	0.395	0.537
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	4	21100	2535	17.41	18.80	1.377			-0.03	0.337	0.464
	LTE Band 7_Ant 0	20M	QPSK	1	0	Left Edge	10mm	4	21100	2535	17.47	18.80	1.358			0.14	0.035	0.048
	LTE Band 7_Ant 0	20M	QPSK	50	0	Left Edge	10mm	4	21100	2535	17.41	18.80	1.377			-0.1	0.036	0.050
	LTE Band 7_Ant 0	20M	QPSK	1	0	Right Edge	10mm	4	21100	2535	17.47	18.80	1.358			-0.05	0.033	0.045
	LTE Band 7_Ant 0	20M	QPSK	50	0	Right Edge	10mm	4	21100	2535	17.41	18.80	1.377			0.18	0.032	0.044
42	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	21100	2535	17.47	18.80	1.358			-0.03	0.609	0.827
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	20850	2510	17.46	18.80	1.361			0.14	0.578	0.787
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	21350	2560	17.46	18.80	1.361			-0.17	0.496	0.675
	LTE Band 7_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	21100	2535	17.41	18.80	1.377			0.17	0.590	0.813
	LTE Band 7_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	20850	2510	17.41	18.80	1.377			0.08	0.568	0.782
	LTE Band 7_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	21350	2560	17.42	18.80	1.374			0.01	0.556	0.764
	LTE Band 7_Ant 0	20M	QPSK	100	0	Bottom Edge	10mm	4	21100	2535	17.51	18.80	1.346			-0.05	0.586	0.789
	CA_7C_Ant 0	20M	QPSK	1	99	Bottom Edge	10mm	4	20850	2510	17.53	18.80	1.340			0.04	0.588	0.788
	LTE Band 12_Ant 0	10M	QPSK	1	0	Front	10mm	4	23095	707.5	24.69	25.10	1.099			-0.01	0.366	0.402
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	4	23095	707.5	22.43	22.80	1.089			0.04	0.216	0.235
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	4	23095	707.5	24.69	25.10	1.099			0	0.348	0.382
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	4	23095	707.5	22.43	22.80	1.089			0.12	0.208	0.226
43	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Edge	10mm	4	23095	707.5	24.69	25.10	1.099			-0.01	0.516	0.567
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Edge	10mm	4	23095	707.5	22.43	22.80	1.089			-0.17	0.304	0.331
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Edge	10mm	4	23095	707.5	24.69	25.10	1.099			0.17	0.248	0.273
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Edge	10mm	4	23095	707.5	22.43	22.80	1.089			-0.05	0.150	0.163
	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Edge	10mm	4	23095	707.5	24.69	25.10	1.099			0.01	0.227	0.249
	LTE Band 12_Ant 0	10M	QPSK	25	0	Bottom Edge	10mm	4	23095	707.5	22.43	22.80	1.089			0.1	0.138	0.150
	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	4	23095	707.5	24.37	24.70	1.079			-0.15	0.306	0.330
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	10mm	4	23095	707.5	22.15	22.40	1.059			0.08	0.198	0.210
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	4	23095	707.5	24.37	24.70	1.079			-0.05	0.325	0.351
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	10mm	4	23095	707.5	22.15	22.40	1.059			0.01	0.191	0.202
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left Edge	10mm	4	23095	707.5	24.37	24.70	1.079			-0.03	0.198	0.214
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left Edge	10mm	4	23095	707.5	22.15	22.40	1.059			0.03	0.119	0.126
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right Edge	10mm	4	23095	707.5	24.37	24.70	1.079			-0.08	0.190	0.205
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right Edge	10mm	4	23095	707.5	22.15	22.40	1.059			-0.08	0.122	0.129
	LTE Band 12_Ant 1	10M	QPSK	1	0	Top Edge	10mm	4	23095	707.5	24.37	24.70	1.079			0.1	0.104	0.112
	LTE Band 12_Ant 1	10M	QPSK	25	0	Top Edge	10mm	4	23095	707.5	22.15	22.40	1.059			-0.18	0.051	0.054
	LTE Band 13_Ant 0	10M	QPSK	1	0	Front	10mm	4	23230	782	23.30	24.30	1.259			0.08	0.242	0.305
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	4	23230	782	22.27	22.80	1.130			0.01	0.189	0.214
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	4	23230	782	23.30	24.30	1.259			0.03	0.371	0.467
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	4	23230	782	22.27	22.80	1.130			-0.08	0.295	0.333



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44	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Edge	10mm	4	23230	782	23.30	24.30	1.259			-0.01	0.447	0.563
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Edge	10mm	4	23230	782	22.27	22.80	1.130			0.1	0.330	0.373
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Edge	10mm	4	23230	782	23.30	24.30	1.259			-0.18	0.180	0.227
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Edge	10mm	4	23230	782	22.27	22.80	1.130			0.1	0.144	0.163
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Edge	10mm	4	23230	782	23.30	24.30	1.259			0.12	0.322	0.405
	LTE Band 13_Ant 0	10M	QPSK	25	0	Bottom Edge	10mm	4	23230	782	22.27	22.80	1.130			0.08	0.257	0.290
	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	10mm	4	23230	782	24.35	24.70	1.084			-0.04	0.406	0.440
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	4	23230	782	22.07	22.40	1.079			0.08	0.246	0.265
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	4	23230	782	24.35	24.70	1.084			-0.02	0.475	0.515
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	4	23230	782	22.07	22.40	1.079			0.01	0.272	0.293
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left Edge	10mm	4	23230	782	24.35	24.70	1.084			0	0.293	0.318
	LTE Band 13_Ant 1	10M	QPSK	25	0	Left Edge	10mm	4	23230	782	22.07	22.40	1.079			0.03	0.182	0.196
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right Edge	10mm	4	23230	782	24.35	24.70	1.084			-0.08	0.274	0.297
	LTE Band 13_Ant 1	10M	QPSK	25	0	Right Edge	10mm	4	23230	782	22.07	22.40	1.079			-0.08	0.167	0.180
	LTE Band 13_Ant 1	10M	QPSK	1	0	Top Edge	10mm	4	23230	782	24.35	24.70	1.084			0.1	0.222	0.241
	LTE Band 13_Ant 1	10M	QPSK	25	0	Top Edge	10mm	4	23230	782	22.07	22.40	1.079			-0.18	0.133	0.143
	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	4	23330	793	24.48	24.80	1.076			0	0.306	0.329
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	4	23330	793	23.48	24.10	1.153			0.02	0.244	0.281
45	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	4	23330	793	24.48	24.80	1.076			0.01	0.534	0.575
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	4	23330	793	23.48	24.10	1.153			0.03	0.428	0.494
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Edge	10mm	4	23330	793	24.48	24.80	1.076			-0.01	0.533	0.574
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Edge	10mm	4	23330	793	23.48	24.10	1.153			0.14	0.411	0.474
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Edge	10mm	4	23330	793	24.48	24.80	1.076			0.11	0.234	0.252
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Edge	10mm	4	23330	793	23.48	24.10	1.153			-0.05	0.188	0.217
	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Edge	10mm	4	23330	793	24.48	24.80	1.076			0.18	0.441	0.475
	LTE Band 14_Ant 0	10M	QPSK	25	0	Bottom Edge	10mm	4	23330	793	23.48	24.10	1.153			0.14	0.353	0.407
	LTE Band 14_Ant 1	10M	QPSK	1	0	Front	10mm	4	23330	793	24.17	24.70	1.130			0	0.411	0.464
	LTE Band 14_Ant 1	10M	QPSK	25	0	Front	10mm	4	23330	793	23.21	23.70	1.119			-0.03	0.329	0.368
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	4	23330	793	24.17	24.70	1.130			0	0.460	0.520
	LTE Band 14_Ant 1	10M	QPSK	25	0	Back	10mm	4	23330	793	23.21	23.70	1.119			0.14	0.367	0.411
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left Edge	10mm	4	23330	793	24.17	24.70	1.130			-0.02	0.347	0.392
	LTE Band 14_Ant 1	10M	QPSK	25	0	Left Edge	10mm	4	23330	793	23.21	23.70	1.119			0.11	0.283	0.317
	LTE Band 14_Ant 1	10M	QPSK	1	0	Right Edge	10mm	4	23330	793	24.17	24.70	1.130			-0.05	0.318	0.359
	LTE Band 14_Ant 1	10M	QPSK	25	0	Right Edge	10mm	4	23330	793	23.21	23.70	1.119			0.18	0.262	0.293
	LTE Band 14_Ant 1	10M	QPSK	1	0	Top Edge	10mm	4	23330	793	24.17	24.70	1.130			0.14	0.237	0.268
	LTE Band 14_Ant 1	10M	QPSK	25	0	Top Edge	10mm	4	23330	793	23.21	23.70	1.119			-0.17	0.190	0.213
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	4	26340	1880	20.29	21.30	1.262			0.01	0.306	0.386
	LTE Band 25_Ant 2	20M	QPSK	50	0	Front	10mm	4	26340	1880	20.28	21.30	1.265			-0.05	0.316	0.400
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	4	26340	1880	20.29	21.30	1.262			-0.03	0.288	0.363
	LTE Band 25_Ant 2	20M	QPSK	50	0	Back	10mm	4	26340	1880	20.28	21.30	1.265			-0.05	0.301	0.381
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Edge	10mm	4	26340	1880	20.29	21.30	1.262			-0.15	0.073	0.092
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Edge	10mm	4	26340	1880	20.28	21.30	1.265			0.02	0.073	0.092
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	26340	1880	20.29	21.30	1.262			0.07	0.339	0.428
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Edge	10mm	4	26340	1880	20.28	21.30	1.265			-0.01	0.380	0.481
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Edge	10mm	4	26340	1880	20.29	21.30	1.262			0.16	0.094	0.119
	LTE Band 25_Ant 2	20M	QPSK	50	0	Bottom Edge	10mm	4	26340	1880	20.28	21.30	1.265			0.13	0.082	0.104
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	4	26340	1880	16.33	17.30	1.250			0.08	0.346	0.433
	LTE Band 25_Ant 0	20M	QPSK	50	0	Front	10mm	4	26340	1880	16.33	17.30	1.250			-0.02	0.349	0.436
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	4	26340	1880	16.33	17.30	1.250			-0.11	0.419	0.524
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	4	26340	1880	16.33	17.30	1.250			0.03	0.419	0.524
	LTE Band 25_Ant 0	20M	QPSK	1	0	Left Edge	10mm	4	26340	1880	16.33	17.30	1.250			-0.11	0.077	0.096
	LTE Band 25_Ant 0	20M	QPSK	50	0	Left Edge	10mm	4	26340	1880	16.33	17.30	1.250			0.1	0.074	0.093
	LTE Band 25_Ant 0	20M	QPSK	1	0	Right Edge	10mm	4	26340	1880	16.33	17.30	1.250			-0.18	0.001	0.001
	LTE Band 25_Ant 0	20M	QPSK	50	0	Right Edge	10mm	4	26340	1880	16.33	17.30	1.250			0.1	0.001	0.001
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	26340	1880	16.33	17.30	1.250			-0.01	0.658	0.823
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	26140	1860	16.32	17.30	1.253			0.12	0.651	0.816



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	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	26590	1905	16.26	17.30	1.271			0.08	0.639	0.812
	LTE Band 25_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	26340	1880	16.33	17.30	1.250			-0.17	0.607	0.759
	LTE Band 25_Ant 0	20M	QPSK	100	0	Bottom Edge	10mm	4	26340	1880	16.32	17.30	1.253			0.11	0.579	0.726
	LTE Band 25_Ant 1	20M	QPSK	1	0	Front	10mm	4	26340	1880	21.72	22.00	1.067			0.02	0.423	0.451
	LTE Band 25_Ant 1	20M	QPSK	50	0	Front	10mm	4	26340	1880	21.70	22.00	1.072			0.1	0.394	0.422
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	4	26340	1880	21.72	22.00	1.067			-0.18	0.754	0.804
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	4	26140	1860	21.71	22.00	1.069			0.1	0.750	0.802
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	4	26590	1905	21.60	22.00	1.096			-0.11	0.768	0.842
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	4	26340	1880	21.70	22.00	1.072			0.12	0.731	0.783
	LTE Band 25_Ant 1	20M	QPSK	100	0	Back	10mm	4	26340	1880	21.69	22.00	1.074			-0.03	0.682	0.732
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Edge	10mm	4	26340	1880	21.72	22.00	1.067			-0.01	0.261	0.278
	LTE Band 25_Ant 1	20M	QPSK	50	0	Left Edge	10mm	4	26340	1880	21.70	22.00	1.072			0.11	0.230	0.246
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Edge	10mm	4	26340	1880	21.72	22.00	1.067			-0.05	0.017	0.018
	LTE Band 25_Ant 1	20M	QPSK	50	0	Right Edge	10mm	4	26340	1880	21.70	22.00	1.072			0.18	0.023	0.025
	LTE Band 25_Ant 1	20M	QPSK	1	0	Top Edge	10mm	4	26340	1880	21.72	22.00	1.067			0.14	0.447	0.477
	LTE Band 25_Ant 1	20M	QPSK	50	0	Top Edge	10mm	4	26340	1880	21.70	22.00	1.072			0.17	0.437	0.468
	LTE Band 25_Ant 5	20M	QPSK	1	0	Front	10mm	4	26340	1880	21.49	22.3	1.205			-0.01	0.253	0.305
	LTE Band 25_Ant 5	20M	QPSK	50	0	Front	10mm	4	26340	1880	21.48	22.3	1.208			-0.03	0.235	0.284
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	10mm	4	26340	1880	21.49	22.3	1.205			0.03	0.280	0.337
	LTE Band 25_Ant 5	20M	QPSK	50	0	Back	10mm	4	26340	1880	21.48	22.3	1.208			0.11	0.263	0.318
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Edge	10mm	4	26340	1880	21.49	22.3	1.205			0.08	0.001	0.001
	LTE Band 25_Ant 5	20M	QPSK	50	0	Left Edge	10mm	4	26340	1880	21.48	22.3	1.208			0.01	0.001	0.001
46	LTE Band 25_Ant 5	20M	QPSK	1	0	Right Edge	10mm	4	26340	1880	21.49	22.3	1.205			-0.02	0.700	0.844
	LTE Band 25_Ant 5	20M	QPSK	1	0	Right Edge	10mm	4	26140	1860	21.48	22.3	1.208			0.03	0.677	0.818
	LTE Band 25_Ant 5	20M	QPSK	1	0	Right Edge	10mm	4	26590	1905	21.36	22.3	1.242			-0.08	0.669	0.831
	LTE Band 25_Ant 5	20M	QPSK	50	0	Right Edge	10mm	4	26340	1880	21.48	22.3	1.208			-0.08	0.684	0.826
	LTE Band 25_Ant 5	20M	QPSK	50	0	Right Edge	10mm	4	26140	1860	21.46	22.3	1.213			0.1	0.657	0.797
	LTE Band 25_Ant 5	20M	QPSK	50	0	Right Edge	10mm	4	26590	1905	21.39	22.3	1.233			-0.18	0.649	0.800
	LTE Band 25_Ant 5	20M	QPSK	100	0	Right Edge	10mm	4	26340	1880	21.46	22.3	1.213			0.1	0.600	0.728
	LTE Band 25_Ant 5	20M	QPSK	1	0	Top Edge	10mm	4	26340	1880	21.49	22.3	1.205			0.12	0.302	0.364
	LTE Band 25_Ant 5	20M	QPSK	50	0	Top Edge	10mm	4	26340	1880	21.48	22.3	1.208			0.08	0.284	0.343
	LTE Band 26_Ant 0	15M	QPSK	1	0	Front	10mm	4	26865	831.5	24.35	24.50	1.035			-0.04	0.336	0.348
	LTE Band 26_Ant 0	15M	QPSK	36	0	Front	10mm	4	26865	831.5	23.36	24.10	1.186			0.02	0.277	0.328
47	LTE Band 26_Ant 0	15M	QPSK	1	0	Back	10mm	4	26865	831.5	24.35	24.50	1.035			-0.02	0.570	0.590
	LTE Band 26_Ant 0	15M	QPSK	36	0	Back	10mm	4	26865	831.5	23.36	24.10	1.186			-0.05	0.467	0.554
	LTE Band 26_Ant 0	15M	QPSK	1	0	Left Edge	10mm	4	26865	831.5	24.35	24.50	1.035			-0.01	0.551	0.570
	LTE Band 26_Ant 0	15M	QPSK	36	0	Left Edge	10mm	4	26865	831.5	23.36	24.10	1.186			0.03	0.463	0.549
	LTE Band 26_Ant 0	15M	QPSK	1	0	Right Edge	10mm	4	26865	831.5	24.35	24.50	1.035			-0.17	0.220	0.228
	LTE Band 26_Ant 0	15M	QPSK	36	0	Right Edge	10mm	4	26865	831.5	23.36	24.10	1.186			0.04	0.171	0.203
	LTE Band 26_Ant 0	15M	QPSK	1	0	Bottom Edge	10mm	4	26865	831.5	24.35	24.50	1.035			-0.01	0.461	0.477
	LTE Band 26_Ant 0	15M	QPSK	36	0	Bottom Edge	10mm	4	26865	831.5	23.36	24.10	1.186			-0.08	0.382	0.453
	CA_5B_Ant 0	10M	QPSK	1	0	Back	10mm	4	20574	841.4	22.92	24.50	1.439			0.06	0.366	0.527
	LTE Band 26_Ant 1	15M	QPSK	1	0	Front	10mm	4	26865	831.5	23.93	24.70	1.194			0	0.252	0.301
	LTE Band 26_Ant 1	15M	QPSK	36	0	Front	10mm	4	26865	831.5	22.93	23.70	1.194			0.08	0.213	0.254
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	4	26865	831.5	23.93	24.70	1.194			-0.04	0.349	0.417
	LTE Band 26_Ant 1	15M	QPSK	36	0	Back	10mm	4	26865	831.5	22.93	23.70	1.194			0.01	0.254	0.303
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Edge	10mm	4	26865	831.5	23.93	24.70	1.194			0.02	0.101	0.121
	LTE Band 26_Ant 1	15M	QPSK	36	0	Left Edge	10mm	4	26865	831.5	22.93	23.70	1.194			-0.08	0.091	0.109
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Edge	10mm	4	26865	831.5	23.93	24.70	1.194			0	0.197	0.235
	LTE Band 26_Ant 1	15M	QPSK	36	0	Right Edge	10mm	4	26865	831.5	22.93	23.70	1.194			0.1	0.159	0.190
	LTE Band 26_Ant 1	15M	QPSK	1	0	Top Edge	10mm	4	26865	831.5	23.93	24.70	1.194			-0.18	0.192	0.229
	LTE Band 26_Ant 1	15M	QPSK	36	0	Top Edge	10mm	4	26865	831.5	22.93	23.70	1.194			0.1	0.159	0.190
	CA_5B_Ant 1	10M	QPSK	1	0	Back	10mm	4	20574	841.4	22.86	24.50	1.459			0.01	0.248	0.362
	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	4	27710	2310	20.27	20.50	1.054			0.05	0.377	0.398
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	4	27710	2310	20.29	20.50	1.050			-0.13	0.391	0.410
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	4	27710	2310	20.27	20.50	1.054			0.03	0.392	0.413



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	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	4	27710	2310	20.29	20.50	1.050			0.03	0.380	0.399
	LTE Band 30_Ant 2	10M	QPSK	1	0	Left Edge	10mm	4	27710	2310	20.27	20.50	1.054			-0.08	0.001	0.001
	LTE Band 30_Ant 2	10M	QPSK	25	0	Left Edge	10mm	4	27710	2310	20.29	20.50	1.050			0.1	0.001	0.001
	LTE Band 30_Ant 2	10M	QPSK	1	0	Right Edge	10mm	4	27710	2310	20.27	20.50	1.054			-0.04	0.469	0.495
	LTE Band 30_Ant 2	10M	QPSK	25	0	Right Edge	10mm	4	27710	2310	20.29	20.50	1.050			-0.18	0.432	0.453
	LTE Band 30_Ant 2	10M	QPSK	1	0	Bottom Edge	10mm	4	27710	2310	20.27	20.50	1.054			0.12	0.083	0.088
	LTE Band 30_Ant 2	10M	QPSK	25	0	Bottom Edge	10mm	4	27710	2310	20.29	20.50	1.050			0.08	0.097	0.102
	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	4	27710	2310	17.93	19.60	1.469			0.08	0.289	0.425
	LTE Band 30_Ant 0	10M	QPSK	25	0	Front	10mm	4	27710	2310	17.95	19.60	1.462			-0.01	0.291	0.425
	LTE Band 30_Ant 0	10M	QPSK	1	0	Back	10mm	4	27710	2310	17.93	19.60	1.469			0.03	0.418	0.614
	LTE Band 30_Ant 0	10M	QPSK	25	0	Back	10mm	4	27710	2310	17.95	19.60	1.462			-0.01	0.420	0.614
	LTE Band 30_Ant 0	10M	QPSK	1	0	Left Edge	10mm	4	27710	2310	17.93	19.60	1.469			-0.08	0.033	0.048
	LTE Band 30_Ant 0	10M	QPSK	25	0	Left Edge	10mm	4	27710	2310	17.95	19.60	1.462			-0.04	0.035	0.051
	LTE Band 30_Ant 0	10M	QPSK	1	0	Right Edge	10mm	4	27710	2310	17.93	19.60	1.469			-0.18	0.001	0.001
	LTE Band 30_Ant 0	10M	QPSK	25	0	Right Edge	10mm	4	27710	2310	17.95	19.60	1.462			0.1	0.001	0.001
	LTE Band 30_Ant 0	10M	QPSK	1	0	Bottom Edge	10mm	4	27710	2310	17.93	19.60	1.469			0.12	0.555	0.815
48	LTE Band 30_Ant 0	10M	QPSK	25	0	Bottom Edge	10mm	4	27710	2310	17.95	19.60	1.462			-0.03	0.559	0.817
	LTE Band 30_Ant 0	10M	QPSK	50	0	Bottom Edge	10mm	4	27710	2310	17.93	19.60	1.469			0.03	0.511	0.751
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	4	40620	2593	23.20	23.50	1.072	62.9	1.006	0.08	0.424	0.457
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	4	40620	2593	22.95	23.50	1.135	62.9	1.006	0.01	0.408	0.466
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	4	40620	2593	23.20	23.50	1.072	62.9	1.006	-0.06	0.468	0.504
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	4	40620	2593	22.95	23.50	1.135	62.9	1.006	0.12	0.387	0.442
	LTE Band 41_Ant 2	20M	QPSK	1	0	Left Edge	10mm	4	40620	2593	23.20	23.50	1.072	62.9	1.006	0.08	0.001	0.001
	LTE Band 41_Ant 2	20M	QPSK	50	0	Left Edge	10mm	4	40620	2593	22.95	23.50	1.135	62.9	1.006	-0.17	0.001	0.001
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	40620	2593	23.20	23.50	1.072	62.9	1.006	-0.03	0.594	0.640
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	39750	2506	23.10	23.50	1.096	62.9	1.006	0.11	0.505	0.557
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	40185	2549.5	23.10	23.50	1.096	62.9	1.006	-0.05	0.530	0.585
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	41055	2636.5	23.16	23.50	1.081	62.9	1.006	0.18	0.541	0.589
	LTE Band 41_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	41490	2680	23.19	23.50	1.074	62.9	1.006	0.14	0.504	0.545
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Edge	10mm	4	40620	2593	22.95	23.50	1.135	62.9	1.006	-0.03	0.601	0.686
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Edge	10mm	4	39750	2506	22.90	23.50	1.148	62.9	1.006	-0.05	0.529	0.611
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Edge	10mm	4	40185	2549.5	22.84	23.50	1.164	62.9	1.006	0.01	0.542	0.635
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Edge	10mm	4	41055	2636.5	22.94	23.50	1.138	62.9	1.006	0.1	0.547	0.626
	LTE Band 41_Ant 2	20M	QPSK	50	0	Right Edge	10mm	4	41490	2680	22.94	23.50	1.138	62.9	1.006	-0.17	0.521	0.596
	LTE Band 41_Ant 2	20M	QPSK	1	0	Bottom Edge	10mm	4	40620	2593	23.20	23.50	1.072	62.9	1.006	-0.01	0.156	0.168
	LTE Band 41_Ant 2	20M	QPSK	50	0	Bottom Edge	10mm	4	40620	2593	22.95	23.50	1.135	62.9	1.006	-0.08	0.171	0.195
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	40620	2593	24.91	25.10	1.045	42.9	1.009	0.05	0.599	0.631
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	39750	2506	24.77	25.10	1.079	42.9	1.009	-0.09	0.478	0.520
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	40185	2549.5	24.79	25.10	1.074	42.9	1.009	-0.08	0.489	0.530
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	41055	2636.5	24.84	25.10	1.062	42.9	1.009	0.13	0.496	0.531
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	41490	2680	24.90	25.10	1.047	42.9	1.009	0.12	0.472	0.499
	CA_41C_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	41490	2680	22.93	23.50	1.140	62.9	1.006	-0.18	0.569	0.653
	CA_41C_Ant 2	20M	QPSK	1	99	Right Edge	10mm	4	39750	2506	22.72	23.50	1.197	62.9	1.006	0.12	0.525	0.632
	CA_41C_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	40185	2549.5	22.8	23.50	1.175	62.9	1.006	0.08	0.512	0.605
	CA_41C_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	40620	2593	22.89	23.50	1.151	62.9	1.006	-0.17	0.565	0.654
	CA_41C_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	41055	2636.5	22.79	23.50	1.178	62.9	1.006	-0.03	0.568	0.673
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	4	40620	2593	19.56	21.10	1.426	62.9	1.006	-0.04	0.251	0.360
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	4	40620	2593	19.60	21.10	1.413	62.9	1.006	0.16	0.251	0.357
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	4	40620	2593	19.56	21.10	1.426	62.9	1.006	-0.02	0.338	0.485
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	4	40620	2593	19.60	21.10	1.413	62.9	1.006	-0.1	0.334	0.475
	LTE Band 41_Ant 0	20M	QPSK	1	0	Left Edge	10mm	4	40620	2593	19.56	21.10	1.426	62.9	1.006	0.07	0.001	0.001
	LTE Band 41_Ant 0	20M	QPSK	50	0	Left Edge	10mm	4	40620	2593	19.60	21.10	1.413	62.9	1.006	0.18	0.001	0.001
	LTE Band 41_Ant 0	20M	QPSK	1	0	Right Edge	10mm	4	40620	2593	19.56	21.10	1.426	62.9	1.006	-0.1	0.001	0.001
	LTE Band 41_Ant 0	20M	QPSK	50	0	Right Edge	10mm	4	40620	2593	19.60	21.10	1.413	62.9	1.006	0.01	0.001	0.001
49	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	40620	2593	19.56	21.10	1.426	62.9	1.006	-0.01	0.527	0.756
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	39750	2506	19.55	21.10	1.429	62.9	1.006	0.19	0.482	0.693



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	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	40185	2549.5	19.52	21.10	1.439	62.9	1.006	0.07	0.463	0.670
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	41055	2636.5	19.54	21.10	1.432	62.9	1.006	-0.18	0.359	0.517
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	41490	2680	19.55	21.10	1.429	62.9	1.006	0.03	0.357	0.513
	LTE Band 41_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	40620	2593	19.60	21.10	1.413	62.9	1.006	-0.15	0.470	0.668
	LTE Band 41_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	39750	2506	19.54	21.10	1.432	62.9	1.006	0.11	0.481	0.693
	LTE Band 41_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	40185	2549.5	19.52	21.10	1.439	62.9	1.006	-0.08	0.480	0.695
	LTE Band 41_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	41055	2636.5	19.56	21.10	1.426	62.9	1.006	-0.17	0.370	0.531
	LTE Band 41_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	41490	2680	19.59	21.10	1.416	62.9	1.006	-0.08	0.359	0.511
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	40620	2593	21.10	22.70	1.445	42.9	1.009	-0.04	0.493	0.719
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	39750	2506	21.09	22.70	1.449	42.9	1.009	0.17	0.471	0.689
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	40185	2549.5	21.09	22.70	1.449	42.9	1.009	0.18	0.473	0.691
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	41055	2636.5	21.06	22.70	1.459	42.9	1.009	-0.04	0.350	0.515
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	41490	2680	21.14	22.70	1.432	42.9	1.009	-0.08	0.349	0.504
	CA_41C_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	40620	2593	19.7	21.10	1.380	62.9	1.006	0.14	0.513	0.712
	CA_41C_Ant 0	20M	QPSK	1	99	Bottom Edge	10mm	4	39750	2506	19.55	21.10	1.429	62.9	1.006	-0.05	0.455	0.654
	CA_41C_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	40185	2549.5	19.56	21.10	1.426	62.9	1.006	0.18	0.453	0.650
	CA_41C_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	41055	2636.5	19.57	21.10	1.422	62.9	1.006	0.14	0.447	0.640
	CA_41C_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	41490	2680	19.67	21.10	1.390	62.9	1.006	-0.17	0.439	0.614
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	4	55830	3609	20.00	20.90	1.230	62.9	1.006	-0.12	0.159	0.197
	LTE Band 48_Ant 6	20M	QPSK	50	0	Front	10mm	4	55830	3609	20.01	20.90	1.227	62.9	1.006	0.08	0.151	0.186
	LTE Band 48_Ant 6	20M	QPSK	1	0	Back	10mm	4	55830	3609	20.00	20.90	1.230	62.9	1.006	-0.08	0.256	0.317
	LTE Band 48_Ant 6	20M	QPSK	50	0	Back	10mm	4	55830	3609	20.01	20.90	1.227	62.9	1.006	0.01	0.241	0.298
	LTE Band 48_Ant 6	20M	QPSK	1	0	Left Edge	10mm	4	55830	3609	20.00	20.90	1.230	62.9	1.006	-0.14	0.340	0.421
	LTE Band 48_Ant 6	20M	QPSK	50	0	Left Edge	10mm	4	55830	3609	20.01	20.90	1.227	62.9	1.006	0.1	0.331	0.409
	LTE Band 48_Ant 6	20M	QPSK	1	0	Right Edge	10mm	4	55830	3609	20.00	20.90	1.230	62.9	1.006	0.1	0.104	0.129
	LTE Band 48_Ant 6	20M	QPSK	50	0	Right Edge	10mm	4	55830	3609	20.01	20.90	1.227	62.9	1.006	0.12	0.039	0.048
	LTE Band 48_Ant 6	20M	QPSK	1	0	Bottom Edge	10mm	4	55830	3609	20.00	20.90	1.230	62.9	1.006	0.08	0.142	0.176
	LTE Band 48_Ant 6	20M	QPSK	50	0	Bottom Edge	10mm	4	55830	3609	20.01	20.90	1.227	62.9	1.006	-0.17	0.148	0.183
	LTE Band 48_Ant 7	20M	QPSK	1	0	Front	10mm	4	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.03	0.137	0.186
	LTE Band 48_Ant 7	20M	QPSK	50	0	Front	10mm	4	56150	3641	19.69	21.00	1.352	62.9	1.006	0	0.141	0.192
	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	4	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.13	0.174	0.237
	LTE Band 48_Ant 7	20M	QPSK	50	0	Back	10mm	4	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.14	0.178	0.242
	LTE Band 48_Ant 7	20M	QPSK	1	0	Left Edge	10mm	4	56150	3641	19.69	21.00	1.352	62.9	1.006	0.11	0.085	0.116
	LTE Band 48_Ant 7	20M	QPSK	50	0	Left Edge	10mm	4	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.05	0.043	0.058
	LTE Band 48_Ant 7	20M	QPSK	1	0	Right Edge	10mm	4	56150	3641	19.69	21.00	1.352	62.9	1.006	0.02	0.290	0.394
50	LTE Band 48_Ant 7	20M	QPSK	50	0	Right Edge	10mm	4	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.11	0.338	0.460
	LTE Band 48_Ant 7	20M	QPSK	1	0	Bottom Edge	10mm	4	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.05	0.056	0.076
	LTE Band 48_Ant 7	20M	QPSK	50	0	Bottom Edge	10mm	4	56150	3641	19.69	21.00	1.352	62.9	1.006	0.01	0.050	0.068
	LTE Band 66_Ant 2	20M	QPSK	1	0	Front	10mm	4	132322	1745	21.20	21.70	1.122			0.04	0.362	0.406
	LTE Band 66_Ant 2	20M	QPSK	50	0	Front	10mm	4	132322	1745	21.20	21.70	1.122			-0.03	0.380	0.426
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	4	132322	1745	21.20	21.70	1.122			0.1	0.319	0.358
	LTE Band 66_Ant 2	20M	QPSK	50	0	Back	10mm	4	132322	1745	21.20	21.70	1.122			0.03	0.290	0.325
	LTE Band 66_Ant 2	20M	QPSK	1	0	Left Edge	10mm	4	132322	1745	21.20	21.70	1.122			-0.08	0.069	0.077
	LTE Band 66_Ant 2	20M	QPSK	50	0	Left Edge	10mm	4	132322	1745	21.20	21.70	1.122			-0.08	0.067	0.075
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Edge	10mm	4	132322	1745	21.20	21.70	1.122			0.1	0.356	0.399
	LTE Band 66_Ant 2	20M	QPSK	50	0	Right Edge	10mm	4	132322	1745	21.20	21.70	1.122			-0.03	0.403	0.452
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Edge	10mm	4	132322	1745	21.20	21.70	1.122			-0.18	0.248	0.278
	LTE Band 66_Ant 2	20M	QPSK	50	0	Bottom Edge	10mm	4	132322	1745	21.20	21.70	1.122			0.1	0.248	0.278
	CA_66C_Ant 2	20M	QPSK	1	99	Right Edge	10mm	4	132072	1720	21.33	21.70	1.089			0.03	0.401	0.437
	CA_66B_Ant 2	15M	QPSK	1	0	Right Edge	10mm	4	132322	1745	21.31	21.70	1.094			0.11	0.390	0.427
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	4	132322	1745	17.25	18.80	1.429			-0.01	0.352	0.503
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	4	132322	1745	17.26	18.80	1.426			0.01	0.351	0.500
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	4	132322	1745	17.25	18.80	1.429			-0.07	0.454	0.649
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	4	132322	1745	17.26	18.80	1.426			-0.08	0.452	0.644
	LTE Band 66_Ant 0	20M	QPSK	1	0	Left Edge	10mm	4	132322	1745	17.25	18.80	1.429			-0.01	0.081	0.116
	LTE Band 66_Ant 0	20M	QPSK	50	0	Left Edge	10mm	4	132322	1745	17.26	18.80	1.426			-0.18	0.080	0.114



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	LTE Band 66_Ant 0	20M	QPSK	1	0	Right Edge	10mm	4	132322	1745	17.25	18.80	1.429			0.1	0.001	0.001
	LTE Band 66_Ant 0	20M	QPSK	50	0	Right Edge	10mm	4	132322	1745	17.26	18.80	1.426			0.12	0.001	0.001
	LTE Band 66_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	132322	1745	17.25	18.80	1.429			0	0.540	0.772
	LTE Band 66_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	132322	1745	17.26	18.80	1.426			0.08	0.516	0.736
	CA_66C_Ant 0	20M	QPSK	1	99	Bottom Edge	10mm	4	132072	1720	17.48	18.80	1.355			0.01	0.530	0.718
	CA_66B_Ant 0	15M	QPSK	1	0	Bottom Edge	10mm	4	132322	1745	17.33	18.80	1.403			-0.03	0.518	0.727
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	4	132322	1745	22.43	23.00	1.140			0.08	0.342	0.390
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	4	132322	1745	22.42	23.00	1.143			0	0.385	0.440
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	4	132322	1745	22.43	23.00	1.140			0.03	0.579	0.660
51	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	4	132322	1745	22.42	23.00	1.143			-0.15	0.728	0.832
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	4	132072	1720	22.41	23.00	1.146			-0.17	0.687	0.787
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	4	132572	1770	22.35	23.00	1.161			0.17	0.699	0.812
	LTE Band 66_Ant 1	20M	QPSK	100	0	Back	10mm	4	132322	1745	22.41	23.00	1.146			0.11	0.689	0.789
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Edge	10mm	4	132322	1745	22.43	23.00	1.140			-0.05	0.164	0.187
	LTE Band 66_Ant 1	20M	QPSK	50	0	Left Edge	10mm	4	132322	1745	22.42	23.00	1.143			-0.08	0.155	0.177
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Edge	10mm	4	132322	1745	22.43	23.00	1.140			0.1	0.001	0.001
	LTE Band 66_Ant 1	20M	QPSK	50	0	Right Edge	10mm	4	132322	1745	22.42	23.00	1.143			-0.18	0.001	0.001
	LTE Band 66_Ant 1	20M	QPSK	1	0	Top Edge	0mm	4	132322	1745	22.43	23.00	1.140			0	0.665	0.758
	LTE Band 66_Ant 1	20M	QPSK	50	0	Top Edge	10mm	4	132322	1745	22.42	23.00	1.143			0.1	0.559	0.639
	LTE Band 66_Ant 5	20M	QPSK	1	0	Front	10mm	4	132322	1745	21.56	22.1	1.132			-0.03	0.383	0.434
	LTE Band 66_Ant 5	20M	QPSK	50	0	Front	10mm	4	132322	1745	21.5	22.1	1.148			-0.05	0.409	0.470
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	4	132322	1745	21.56	22.1	1.132			0.11	0.387	0.438
	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	4	132322	1745	21.5	22.1	1.148			-0.12	0.414	0.475
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Edge	10mm	4	132322	1745	21.56	22.1	1.132			-0.05	0.068	0.077
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left Edge	10mm	4	132322	1745	21.5	22.1	1.148			0.18	0.065	0.075
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Edge	10mm	4	132322	1745	21.56	22.1	1.132			-0.04	0.624	0.707
	LTE Band 66_Ant 5	20M	QPSK	50	0	Right Edge	10mm	4	132322	1745	21.5	22.1	1.148			0.14	0.554	0.636
	LTE Band 66_Ant 5	20M	QPSK	1	0	Top Edge	10mm	4	132322	1745	21.56	22.1	1.132			0.17	0.167	0.189
	LTE Band 66_Ant 5	20M	QPSK	50	0	Top Edge	10mm	4	132322	1745	21.5	22.1	1.148			-0.05	0.165	0.189
	LTE Band 71_Ant 0	20M	QPSK	1	0	Front	10mm	4	133297	680.5	24.74	25.10	1.086			-0.03	0.242	0.263
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	4	133297	680.5	23.71	24.10	1.094			0.01	0.192	0.210
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	4	133297	680.5	24.74	25.10	1.086			0.01	0.355	0.386
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	4	133297	680.5	23.71	24.10	1.094			0.03	0.269	0.294
52	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Edge	10mm	4	133297	680.5	24.74	25.10	1.086			-0.06	0.402	0.437
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Edge	10mm	4	133297	680.5	23.71	24.10	1.094			0.05	0.334	0.365
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Edge	10mm	4	133297	680.5	24.74	25.10	1.086			0.06	0.197	0.214
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Edge	10mm	4	133297	680.5	23.71	24.10	1.094			-0.09	0.165	0.181
	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Edge	10mm	4	133297	680.5	24.74	25.10	1.086			-0.08	0.224	0.243
	LTE Band 71_Ant 0	20M	QPSK	50	0	Bottom Edge	10mm	4	133297	680.5	23.71	24.10	1.094			0.13	0.172	0.188
	LTE Band 71_Ant 1	20M	QPSK	1	0	Front	10mm	4	133297	680.5	24.30	24.70	1.096			-0.02	0.240	0.263
	LTE Band 71_Ant 1	20M	QPSK	50	0	Front	10mm	4	133297	680.5	23.27	23.70	1.104			0.08	0.206	0.227
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	4	133297	680.5	24.30	24.70	1.096			0	0.264	0.289
	LTE Band 71_Ant 1	20M	QPSK	50	0	Back	10mm	4	133297	680.5	23.27	23.70	1.104			0.01	0.228	0.252
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Edge	10mm	4	133297	680.5	24.30	24.70	1.096			-0.04	0.202	0.221
	LTE Band 71_Ant 1	20M	QPSK	50	0	Left Edge	10mm	4	133297	680.5	23.27	23.70	1.104			-0.08	0.165	0.182
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Edge	10mm	4	133297	680.5	24.30	24.70	1.096			-0.08	0.156	0.171
	LTE Band 71_Ant 1	20M	QPSK	50	0	Right Edge	10mm	4	133297	680.5	23.27	23.70	1.104			0.1	0.132	0.146
	LTE Band 71_Ant 1	20M	QPSK	1	0	Top Edge	10mm	4	133297	680.5	24.30	24.70	1.096			-0.18	0.100	0.110
	LTE Band 71_Ant 1	20M	QPSK	50	0	Top Edge	10mm	4	133297	680.5	23.27	23.70	1.104			0.1	0.084	0.093



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7_Ant 2	50M	BPSK	1	1	Front	10mm	4	507000	2535	19.13	20.20	1.279	0.08	0.183	0.234
	FR1 n7_Ant 2	50M	BPSK	135	68	Front	10mm	4	507000	2535	19.04	20.20	1.306	-0.16	0.242	0.316
	FR1 n7_Ant 2	50M	BPSK	1	1	Back	10mm	4	507000	2535	19.13	20.20	1.279	0.03	0.220	0.281
	FR1 n7_Ant 2	50M	BPSK	135	68	Back	10mm	4	507000	2535	19.04	20.20	1.306	-0.04	0.260	0.340
	FR1 n7_Ant 2	50M	BPSK	1	1	Left Edge	10mm	4	507000	2535	19.13	20.20	1.279	-0.08	0.001	0.001
	FR1 n7_Ant 2	50M	BPSK	135	68	Left Edge	10mm	4	507000	2535	19.04	20.20	1.306	-0.08	0.001	0.001
	FR1 n7_Ant 2	50M	BPSK	1	1	Right Edge	10mm	4	507000	2535	19.13	20.20	1.279	0.1	0.365	0.467
	FR1 n7_Ant 2	50M	BPSK	135	68	Right Edge	10mm	4	507000	2535	19.04	20.20	1.306	-0.06	0.390	0.509
	FR1 n7_Ant 2	50M	BPSK	1	1	Bottom Edge	10mm	4	507000	2535	19.13	20.20	1.279	-0.18	0.082	0.105
	FR1 n7_Ant 2	50M	BPSK	135	68	Bottom Edge	10mm	4	507000	2535	19.04	20.20	1.306	0.1	0.086	0.112
	FR1 n7_Ant 0	50M	BPSK	1	1	Front	10mm	4	507000	2535	17.07	17.90	1.211	-0.1	0.281	0.340
	FR1 n7_Ant 0	50M	BPSK	135	68	Front	10mm	4	507000	2535	17.13	17.90	1.194	0.14	0.265	0.316
	FR1 n7_Ant 0	50M	BPSK	1	1	Back	10mm	4	507000	2535	17.07	17.90	1.211	0.04	0.292	0.353
	FR1 n7_Ant 0	50M	BPSK	135	68	Back	10mm	4	507000	2535	17.13	17.90	1.194	-0.05	0.273	0.326
	FR1 n7_Ant 0	50M	BPSK	1	1	Left Edge	10mm	4	507000	2535	17.07	17.90	1.211	-0.05	0.035	0.042
	FR1 n7_Ant 0	50M	BPSK	135	68	Left Edge	10mm	4	507000	2535	17.13	17.90	1.194	0.14	0.033	0.039
	FR1 n7_Ant 0	50M	BPSK	1	1	Right Edge	10mm	4	507000	2535	17.07	17.90	1.211	-0.17	0.001	0.001
	FR1 n7_Ant 0	50M	BPSK	135	68	Right Edge	10mm	4	507000	2535	17.13	17.90	1.194	0.17	0.001	0.001
53	FR1 n7_Ant 0	50M	BPSK	1	1	Bottom Edge	10mm	4	507000	2535	17.07	17.90	1.211	-0.03	0.534	0.646
	FR1 n7_Ant 0	50M	BPSK	135	68	Bottom Edge	10mm	4	507000	2535	17.13	17.90	1.194	0.01	0.482	0.576
	FR1 n12_Ant 0	15M	BPSK	1	1	Front	10mm	4	141500	707.5	24.72	25.10	1.091	-0.15	0.338	0.369
	FR1 n12_Ant 0	15M	BPSK	36	22	Front	10mm	4	141500	707.5	24.70	25.10	1.096	0	0.353	0.387
	FR1 n12_Ant 0	15M	BPSK	1	1	Back	10mm	4	141500	707.5	24.72	25.10	1.091	0.07	0.340	0.371
	FR1 n12_Ant 0	15M	BPSK	36	22	Back	10mm	4	141500	707.5	24.70	25.10	1.096	-0.01	0.358	0.393
	FR1 n12_Ant 0	15M	BPSK	1	1	Left Edge	10mm	4	141500	707.5	24.72	25.10	1.091	-0.18	0.489	0.534
54	FR1 n12_Ant 0	15M	BPSK	36	22	Left Edge	10mm	4	141500	707.5	24.70	25.10	1.096	-0.02	0.499	0.547
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Edge	10mm	4	141500	707.5	24.72	25.10	1.091	0.03	0.224	0.244
	FR1 n12_Ant 0	15M	BPSK	36	22	Right Edge	10mm	4	141500	707.5	24.70	25.10	1.096	-0.15	0.240	0.263
	FR1 n12_Ant 0	15M	BPSK	1	1	Bottom Edge	10mm	4	141500	707.5	24.72	25.10	1.091	-0.15	0.211	0.230
	FR1 n12_Ant 0	15M	BPSK	36	22	Bottom Edge	10mm	4	141500	707.5	24.70	25.10	1.096	0.11	0.226	0.248
	FR1 n12_Ant 1	15M	BPSK	1	1	Front	10mm	4	141500	707.5	24.48	24.70	1.052	0.08	0.278	0.292
	FR1 n12_Ant 1	15M	BPSK	36	22	Front	10mm	4	141500	707.5	24.42	24.70	1.067	-0.02	0.337	0.359
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	4	141500	707.5	24.48	24.70	1.052	0.01	0.375	0.394
	FR1 n12_Ant 1	15M	BPSK	36	22	Back	10mm	4	141500	707.5	24.42	24.70	1.067	-0.03	0.396	0.422
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Edge	10mm	4	141500	707.5	24.48	24.70	1.052	0.03	0.195	0.205
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Edge	10mm	4	141500	707.5	24.42	24.70	1.067	0	0.249	0.266
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Edge	10mm	4	141500	707.5	24.48	24.70	1.052	-0.08	0.160	0.168
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Edge	10mm	4	141500	707.5	24.42	24.70	1.067	-0.08	0.237	0.253
	FR1 n12_Ant 1	15M	BPSK	1	1	Top Edge	10mm	4	141500	707.5	24.48	24.70	1.052	0.1	0.110	0.116
	FR1 n12_Ant 1	15M	BPSK	36	22	Top Edge	10mm	4	141500	707.5	24.42	24.70	1.067	-0.18	0.121	0.129
	FR1 n14_Ant 0	10M	BPSK	1	1	Front	10mm	4	158600	793	24.55	25.10	1.135	-0.08	0.350	0.397
	FR1 n14_Ant 0	10M	BPSK	25	14	Front	10mm	4	158600	793	24.53	25.10	1.140	-0.05	0.360	0.410
55	FR1 n14_Ant 0	10M	BPSK	1	1	Back	10mm	4	158600	793	24.55	25.10	1.135	-0.02	0.502	0.570
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	10mm	4	158600	793	24.53	25.10	1.140	-0.08	0.487	0.555
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Edge	10mm	4	158600	793	24.55	25.10	1.135	-0.01	0.500	0.568
	FR1 n14_Ant 0	10M	BPSK	25	14	Left Edge	10mm	4	158600	793	24.53	25.10	1.140	-0.08	0.481	0.548
	FR1 n14_Ant 0	10M	BPSK	1	1	Right Edge	10mm	4	158600	793	24.55	25.10	1.135	0.17	0.232	0.263
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Edge	10mm	4	158600	793	24.53	25.10	1.140	0.18	0.228	0.260
	FR1 n14_Ant 0	10M	BPSK	1	1	Bottom Edge	10mm	4	158600	793	24.55	25.10	1.135	-0.04	0.429	0.487
	FR1 n14_Ant 0	10M	BPSK	25	14	Bottom Edge	10mm	4	158600	793	24.53	25.10	1.140	-0.08	0.438	0.499
	FR1 n14_Ant 1	10M	BPSK	1	1	Front	10mm	4	158600	793	24.20	24.70	1.122	0.02	0.422	0.473



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	FR1 n14_Ant 1	10M	BPSK	25	14	Front	10mm	4	158600	793	24.17	24.70	1.130	0.05	0.417	0.471
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	4	158600	793	24.20	24.70	1.122	-0.01	0.475	0.533
	FR1 n14_Ant 1	10M	BPSK	25	14	Back	10mm	4	158600	793	24.17	24.70	1.130	0.08	0.468	0.529
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Edge	10mm	4	158600	793	24.20	24.70	1.122	0.01	0.317	0.356
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Edge	10mm	4	158600	793	24.17	24.70	1.130	-0.02	0.316	0.357
	FR1 n14_Ant 1	10M	BPSK	1	1	Right Edge	10mm	4	158600	793	24.20	24.70	1.122	-0.08	0.306	0.343
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Edge	10mm	4	158600	793	24.17	24.70	1.130	-0.01	0.338	0.382
	FR1 n14_Ant 1	10M	BPSK	1	1	Top Edge	10mm	4	158600	793	24.20	24.70	1.122	-0.08	0.210	0.236
	FR1 n14_Ant 1	10M	BPSK	25	14	Top Edge	10mm	4	158600	793	24.17	24.70	1.130	0.1	0.173	0.195
	FR1 n25_Ant 2	40M	BPSK	1	1	Front	10mm	4	376500	1882.5	20.29	21.10	1.205	0.1	0.243	0.293
	FR1 n25_Ant 2	40M	BPSK	108	54	Front	10mm	4	376500	1882.5	20.33	21.10	1.194	-0.03	0.282	0.337
	FR1 n25_Ant 2	40M	BPSK	1	1	Back	10mm	4	376500	1882.5	20.29	21.10	1.205	-0.06	0.314	0.378
	FR1 n25_Ant 2	40M	BPSK	108	54	Back	10mm	4	376500	1882.5	20.33	21.10	1.194	0.1	0.310	0.370
	FR1 n25_Ant 2	40M	BPSK	1	1	Left Edge	10mm	4	376500	1882.5	20.29	21.10	1.205	0.08	0.052	0.063
	FR1 n25_Ant 2	40M	BPSK	108	54	Left Edge	10mm	4	376500	1882.5	20.33	21.10	1.194	0.01	0.056	0.067
	FR1 n25_Ant 2	40M	BPSK	1	1	Right Edge	10mm	4	376500	1882.5	20.29	21.10	1.205	0.03	0.377	0.454
	FR1 n25_Ant 2	40M	BPSK	108	54	Right Edge	10mm	4	376500	1882.5	20.33	21.10	1.194	0.01	0.439	0.524
	FR1 n25_Ant 2	40M	BPSK	1	1	Bottom Edge	10mm	4	376500	1882.5	20.29	21.10	1.205	-0.08	0.059	0.071
	FR1 n25_Ant 2	40M	BPSK	108	54	Bottom Edge	10mm	4	376500	1882.5	20.33	21.10	1.194	-0.08	0.048	0.057
	FR1 n25_Ant 0	40M	BPSK	1	1	Front	10mm	4	376500	1882.5	16.31	17.70	1.377	-0.15	0.340	0.468
	FR1 n25_Ant 0	40M	BPSK	108	54	Front	10mm	4	376500	1882.5	16.36	17.70	1.361	-0.05	0.321	0.437
	FR1 n25_Ant 0	40M	BPSK	1	1	Back	10mm	4	376500	1882.5	16.31	17.70	1.377	0.13	0.426	0.587
	FR1 n25_Ant 0	40M	BPSK	108	54	Back	10mm	4	376500	1882.5	16.36	17.70	1.361	0.18	0.388	0.528
	FR1 n25_Ant 0	40M	BPSK	1	1	Left Edge	10mm	4	376500	1882.5	16.31	17.70	1.377	-0.09	0.072	0.099
	FR1 n25_Ant 0	40M	BPSK	108	54	Left Edge	10mm	4	376500	1882.5	16.36	17.70	1.361	0.01	0.067	0.091
	FR1 n25_Ant 0	40M	BPSK	1	1	Right Edge	10mm	4	376500	1882.5	16.31	17.70	1.377	0.17	0.001	0.001
	FR1 n25_Ant 0	40M	BPSK	108	54	Right Edge	10mm	4	376500	1882.5	16.36	17.70	1.361	-0.05	0.001	0.001
56	FR1 n25_Ant 0	40M	BPSK	1	1	Bottom Edge	10mm	4	376500	1882.5	16.31	17.70	1.377	-0.02	0.604	0.832
	FR1 n25_Ant 0	40M	BPSK	108	54	Bottom Edge	10mm	4	376500	1882.5	16.36	17.70	1.361	0.01	0.576	0.784
	FR1 n25_Ant 0	40M	BPSK	216	0	Bottom Edge	10mm	4	376500	1882.5	16.31	17.70	1.377	0.1	0.587	0.808
	FR1 n25_Ant 1	40M	BPSK	1	1	Front	10mm	4	376500	1882.5	20.88	21.60	1.180	0.1	0.241	0.284
	FR1 n25_Ant 1	40M	BPSK	108	54	Front	10mm	4	376500	1882.5	20.94	21.60	1.164	-0.01	0.276	0.321
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	10mm	4	376500	1882.5	20.88	21.60	1.180	0.04	0.614	0.725
	FR1 n25_Ant 1	40M	BPSK	108	54	Back	10mm	4	376500	1882.5	20.94	21.60	1.164	-0.1	0.641	0.746
	FR1 n25_Ant 1	40M	BPSK	1	1	Left Edge	10mm	4	376500	1882.5	20.88	21.60	1.180	-0.01	0.191	0.225
	FR1 n25_Ant 1	40M	BPSK	108	54	Left Edge	10mm	4	376500	1882.5	20.94	21.60	1.164	-0.02	0.225	0.262
	FR1 n25_Ant 1	40M	BPSK	1	1	Right Edge	10mm	4	376500	1882.5	20.88	21.60	1.180	0.05	0.083	0.098
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Edge	10mm	4	376500	1882.5	20.94	21.60	1.164	0.06	0.101	0.118
	FR1 n25_Ant 1	40M	BPSK	1	1	Top Edge	10mm	4	376500	1882.5	20.88	21.60	1.180	-0.09	0.353	0.417
	FR1 n25_Ant 1	40M	BPSK	108	54	Top Edge	10mm	4	376500	1882.5	20.94	21.60	1.164	0.06	0.445	0.518
	FR1 n25_Ant 5	40M	BPSK	1	1	Front	10mm	4	376500	1882.5	20.14	21.8	1.466	0.01	0.195	0.286
	FR1 n25_Ant 5	40M	BPSK	108	54	Front	10mm	4	376500	1882.5	20.19	21.8	1.449	0.11	0.162	0.235
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	10mm	4	376500	1882.5	20.14	21.8	1.466	-0.12	0.252	0.369
	FR1 n25_Ant 5	40M	BPSK	108	54	Back	10mm	4	376500	1882.5	20.19	21.8	1.449	0.18	0.232	0.336
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Edge	10mm	4	376500	1882.5	20.14	21.8	1.466	0.14	0.001	0.001
	FR1 n25_Ant 5	40M	BPSK	108	54	Left Edge	10mm	4	376500	1882.5	20.19	21.8	1.449	-0.17	0.001	0.001
	FR1 n25_Ant 5	40M	BPSK	1	1	Right Edge	10mm	4	376500	1882.5	20.14	21.8	1.466	-0.02	0.470	0.689
	FR1 n25_Ant 5	40M	BPSK	108	54	Right Edge	10mm	4	376500	1882.5	20.19	21.8	1.449	0.17	0.465	0.674
	FR1 n25_Ant 5	40M	BPSK	1	1	Top Edge	10mm	4	376500	1882.5	20.14	21.8	1.466	-0.05	0.236	0.346
	FR1 n25_Ant 5	40M	BPSK	108	54	Top Edge	10mm	4	376500	1882.5	20.19	21.8	1.449	0.01	0.233	0.338
	FR1 n26_Ant 0	20M	QPSK	1	53	Front	10mm	4	166300	831.5	24.31	25.10	1.199	0.01	0.296	0.355
	FR1 n26_Ant 0	20M	QPSK	50	28	Front	10mm	4	166300	831.5	24.20	25.10	1.230	0.05	0.282	0.347
57	FR1 n26_Ant 0	20M	QPSK	1	53	Back	10mm	4	166300	831.5	24.31	25.10	1.199	-0.02	0.546	0.655
	FR1 n26_Ant 0	20M	QPSK	50	28	Back	10mm	4	166300	831.5	24.20	25.10	1.230	-0.01	0.525	0.646
	FR1 n26_Ant 0	20M	QPSK	1	53	Left Edge	10mm	4	166300	831.5	24.31	25.10	1.199	0.01	0.354	0.425
	FR1 n26_Ant 0	20M	QPSK	50	28	Left Edge	10mm	4	166300	831.5	24.20	25.10	1.230	0.05	0.311	0.383



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	FR1 n26_Ant 0	20M	QPSK	1	53	Right Edge	10mm	4	166300	831.5	24.31	25.10	1.199	0.06	0.161	0.193
	FR1 n26_Ant 0	20M	QPSK	50	28	Right Edge	10mm	4	166300	831.5	24.20	25.10	1.230	-0.09	0.158	0.194
	FR1 n26_Ant 0	20M	QPSK	1	53	Bottom Edge	10mm	4	166300	831.5	24.31	25.10	1.199	-0.01	0.482	0.578
	FR1 n26_Ant 0	20M	QPSK	50	28	Bottom Edge	10mm	4	166300	831.5	24.20	25.10	1.230	-0.08	0.469	0.577
	FR1 n26_Ant 1	20M	QPSK	1	1	Front	10mm	4	166300	831.5	24.06	24.70	1.159	-0.18	0.256	0.297
	FR1 n26_Ant 1	20M	QPSK	50	28	Front	10mm	4	166300	831.5	24.01	24.70	1.172	0.02	0.292	0.342
	FR1 n26_Ant 1	20M	QPSK	1	1	Back	10mm	4	166300	831.5	24.06	24.70	1.159	0.1	0.302	0.350
	FR1 n26_Ant 1	20M	QPSK	50	28	Back	10mm	4	166300	831.5	24.01	24.70	1.172	0.02	0.362	0.424
	FR1 n26_Ant 1	20M	QPSK	1	1	Left Edge	10mm	4	166300	831.5	24.06	24.70	1.159	0.05	0.080	0.093
	FR1 n26_Ant 1	20M	QPSK	50	28	Left Edge	10mm	4	166300	831.5	24.01	24.70	1.172	0	0.089	0.104
	FR1 n26_Ant 1	20M	QPSK	1	1	Right Edge	10mm	4	166300	831.5	24.06	24.70	1.159	-0.17	0.171	0.198
	FR1 n26_Ant 1	20M	QPSK	50	28	Right Edge	10mm	4	166300	831.5	24.01	24.70	1.172	-0.01	0.225	0.264
	FR1 n26_Ant 1	20M	QPSK	1	1	Top Edge	10mm	4	166300	831.5	24.06	24.70	1.159	-0.03	0.116	0.134
	FR1 n26_Ant 1	20M	QPSK	50	28	Top Edge	10mm	4	166300	831.5	24.01	24.70	1.172	0.14	0.147	0.172
	FR1 n30_Ant 2	10M	BPSK	1	1	Front	10mm	4	462000	2310	19.89	20.50	1.151	-0.04	0.369	0.425
	FR1 n30_Ant 2	10M	BPSK	25	14	Front	10mm	4	462000	2310	19.94	20.50	1.138	0.08	0.307	0.349
	FR1 n30_Ant 2	10M	BPSK	1	1	Back	10mm	4	462000	2310	19.89	20.50	1.151	0.01	0.295	0.339
	FR1 n30_Ant 2	10M	BPSK	25	14	Back	10mm	4	462000	2310	19.94	20.50	1.138	0.01	0.288	0.328
	FR1 n30_Ant 2	10M	BPSK	1	1	Left Edge	10mm	4	462000	2310	19.89	20.50	1.151	0.03	0.001	0.001
	FR1 n30_Ant 2	10M	BPSK	25	14	Left Edge	10mm	4	462000	2310	19.94	20.50	1.138	-0.08	0.001	0.001
	FR1 n30_Ant 2	10M	BPSK	1	1	Right Edge	10mm	4	462000	2310	19.89	20.50	1.151	-0.02	0.434	0.499
	FR1 n30_Ant 2	10M	BPSK	25	14	Right Edge	10mm	4	462000	2310	19.94	20.50	1.138	-0.08	0.394	0.448
	FR1 n30_Ant 2	10M	BPSK	1	1	Bottom Edge	10mm	4	462000	2310	19.89	20.50	1.151	0.1	0.088	0.101
	FR1 n30_Ant 2	10M	BPSK	25	14	Bottom Edge	10mm	4	462000	2310	19.94	20.50	1.138	-0.18	0.085	0.097
	FR1 n30_Ant 0	10M	BPSK	1	1	Front	10mm	4	462000	2310	18.12	19.80	1.472	0.08	0.316	0.465
	FR1 n30_Ant 0	10M	BPSK	25	0	Front	10mm	4	462000	2310	18.10	19.80	1.479	0.01	0.316	0.467
	FR1 n30_Ant 0	10M	BPSK	1	1	Back	10mm	4	462000	2310	18.12	19.80	1.472	-0.16	0.409	0.602
	FR1 n30_Ant 0	10M	BPSK	25	0	Back	10mm	4	462000	2310	18.10	19.80	1.479	-0.08	0.382	0.565
	FR1 n30_Ant 0	10M	BPSK	1	1	Left Edge	10mm	4	462000	2310	18.12	19.80	1.472	-0.08	0.048	0.071
	FR1 n30_Ant 0	10M	BPSK	25	0	Left Edge	10mm	4	462000	2310	18.10	19.80	1.479	0.1	0.044	0.065
	FR1 n30_Ant 0	10M	BPSK	1	1	Right Edge	10mm	4	462000	2310	18.12	19.80	1.472	-0.18	0.040	0.059
	FR1 n30_Ant 0	10M	BPSK	25	0	Right Edge	10mm	4	462000	2310	18.10	19.80	1.479	0.1	0.040	0.059
58	FR1 n30_Ant 0	10M	BPSK	1	1	Bottom Edge	10mm	4	462000	2310	18.12	19.80	1.472	-0.01	0.566	0.833
	FR1 n30_Ant 0	10M	BPSK	25	0	Bottom Edge	10mm	4	462000	2310	18.10	19.80	1.479	0.12	0.533	0.788
	FR1 n30_Ant 0	10M	BPSK	50	0	Bottom Edge	10mm	4	462000	2310	18.08	19.80	1.486	0.08	0.522	0.776
	FR1 n41_Ant 2	100M	BPSK	1	1	Front	10mm	4	518598	2592.99	20.93	21.50	1.140	0.08	0.386	0.440
	FR1 n41_Ant 2	100M	BPSK	135	69	Front	10mm	4	518598	2592.99	20.82	21.50	1.169	0.01	0.415	0.485
	FR1 n41_Ant 2	100M	BPSK	1	1	Back	10mm	4	518598	2592.99	20.93	21.50	1.140	0.03	0.465	0.530
	FR1 n41_Ant 2	100M	BPSK	135	69	Back	10mm	4	518598	2592.99	20.82	21.50	1.169	0.05	0.467	0.546
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Edge	10mm	4	518598	2592.99	20.93	21.50	1.140	-0.09	0.001	0.001
	FR1 n41_Ant 2	100M	BPSK	135	69	Left Edge	10mm	4	518598	2592.99	20.82	21.50	1.169	0.11	0.001	0.001
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Edge	10mm	4	518598	2592.99	20.93	21.50	1.140	-0.05	0.540	0.616
	FR1 n41_Ant 2	100M	BPSK	135	69	Right Edge	10mm	4	518598	2592.99	20.82	21.50	1.169	0	0.637	0.745
	FR1 n41_Ant 2	100M	BPSK	1	1	Bottom Edge	10mm	4	518598	2592.99	20.93	21.50	1.140	-0.08	0.130	0.148
	FR1 n41_Ant 2	100M	BPSK	135	69	Bottom Edge	10mm	4	518598	2592.99	20.82	21.50	1.169	0.16	0.126	0.147
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Right Edge	10mm	4	518598	2592.99	24.02	24.50	1.117	0.05	0.633	0.707
	FR1 n41_Ant 0	100M	BPSK	1	1	Front	10mm	4	518598	2592.99	18.66	19.60	1.242	-0.01	0.274	0.340
	FR1 n41_Ant 0	100M	BPSK	135	0	Front	10mm	4	518598	2592.99	18.46	19.60	1.300	0.07	0.210	0.273
	FR1 n41_Ant 0	100M	BPSK	1	1	Back	10mm	4	518598	2592.99	18.66	19.60	1.242	0	0.434	0.539
	FR1 n41_Ant 0	100M	BPSK	135	0	Back	10mm	4	518598	2592.99	18.46	19.60	1.300	0.08	0.482	0.627
	FR1 n41_Ant 0	100M	BPSK	1	1	Left Edge	10mm	4	518598	2592.99	18.66	19.60	1.242	-0.18	0.038	0.047
	FR1 n41_Ant 0	100M	BPSK	135	0	Left Edge	10mm	4	518598	2592.99	18.46	19.60	1.300	-0.01	0.035	0.046
	FR1 n41_Ant 0	100M	BPSK	1	1	Right Edge	10mm	4	518598	2592.99	18.66	19.60	1.242	-0.06	0.001	0.001
	FR1 n41_Ant 0	100M	BPSK	135	0	Right Edge	10mm	4	518598	2592.99	18.46	19.60	1.300	-0.04	0.039	0.051
	FR1 n41_Ant 0	100M	BPSK	1	1	Bottom Edge	10mm	4	518598	2592.99	18.66	19.60	1.242	-0.04	0.664	0.824
	FR1 n41_Ant 0	100M	BPSK	135	0	Bottom Edge	10mm	4	518598	2592.99	18.46	19.60	1.300	-0.09	0.631	0.820



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	FR1 n41_Ant 0	100M	BPSK	270	0	Bottom Edge	10mm	4	518598	2592.99	18.45	19.60	1.303	0.08	0.608	0.792
	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Bottom Edge	10mm	4	518598	2592.99	21.73	22.60	1.222	-0.17	0.643	0.786
	FR1 n41_Ant 1	100M	BPSK	1	1	Front	10mm	4	518598	2592.99	19.28	19.80	1.127	-0.01	0.410	0.462
	FR1 n41_Ant 1	100M	BPSK	135	0	Front	10mm	4	518598	2592.99	19.19	19.80	1.151	0.08	0.359	0.413
	FR1 n41_Ant 1	100M	BPSK	1	1	Back	10mm	4	518598	2592.99	19.28	19.80	1.127	0.13	0.678	0.764
	FR1 n41_Ant 1	100M	BPSK	135	0	Back	10mm	4	518598	2592.99	19.19	19.80	1.151	-0.17	0.535	0.616
	FR1 n41_Ant 1	100M	BPSK	1	1	Left Edge	10mm	4	518598	2592.99	19.28	19.80	1.127	-0.03	0.072	0.081
	FR1 n41_Ant 1	100M	BPSK	135	0	Left Edge	10mm	4	518598	2592.99	19.19	19.80	1.151	0.01	0.062	0.071
	FR1 n41_Ant 1	100M	BPSK	1	1	Right Edge	10mm	4	518598	2592.99	19.28	19.80	1.127	0.03	0.001	0.001
	FR1 n41_Ant 1	100M	BPSK	135	0	Right Edge	10mm	4	518598	2592.99	19.19	19.80	1.151	-0.08	0.001	0.001
59	FR1 n41_Ant 1	100M	BPSK	1	1	Top Edge	10mm	4	518598	2592.99	19.28	19.80	1.127	0.03	0.745	0.840
	FR1 n41_Ant 1	100M	BPSK	135	0	Top Edge	10mm	4	518598	2592.99	19.19	19.80	1.151	-0.08	0.615	0.708
	FR1 n41_Ant 1	100M	BPSK	270	0	Top Edge	10mm	4	518598	2592.99	19.02	19.80	1.197	-0.01	0.605	0.724
	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Top Edge	10mm	4	518598	2592.99	22.33	22.80	1.114	0.1	0.713	0.794
	FR1 n41_Ant 5	100M	BPSK	1	1	Front	10mm	4	518598	2592.99	20.65	21.8	1.303	-0.01	0.193	0.252
	FR1 n41_Ant 5	100M	BPSK	135	0	Front	10mm	4	518598	2592.99	20.59	21.8	1.321	0.01	0.145	0.192
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	4	518598	2592.99	20.65	21.8	1.303	0	0.245	0.319
	FR1 n41_Ant 5	100M	BPSK	135	0	Back	10mm	4	518598	2592.99	20.59	21.8	1.321	-0.08	0.172	0.227
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Edge	10mm	4	518598	2592.99	20.65	21.8	1.303	-0.08	0.001	0.001
	FR1 n41_Ant 5	100M	BPSK	135	0	Left Edge	10mm	4	518598	2592.99	20.59	21.8	1.321	0.1	0.001	0.001
	FR1 n41_Ant 5	100M	BPSK	1	1	Right Edge	10mm	4	518598	2592.99	20.65	21.8	1.303	-0.05	0.521	0.679
	FR1 n41_Ant 5	100M	BPSK	135	0	Right Edge	10mm	4	518598	2592.99	20.59	21.8	1.321	-0.18	0.277	0.366
	FR1 n41_Ant 5	100M	BPSK	1	1	Top Edge	10mm	4	518598	2592.99	20.65	21.8	1.303	0.1	0.001	0.001
	FR1 n41_Ant 5	100M	BPSK	135	0	Top Edge	10mm	4	518598	2592.99	20.59	21.8	1.321	0.12	0.001	0.001
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Right Edge	10mm	4	518598	2592.99	23.73	24.8	1.279	0.08	0.518	0.663
	FR1 n48_Ant 6	40M	BPSK	1	104	Front	10mm	4	641666	3624.99	19.17	20.90	1.489	-0.19	0.207	0.308
	FR1 n48_Ant 6	40M	BPSK	50	25	Front	10mm	4	641666	3624.99	19.22	20.90	1.472	0.18	0.190	0.280
	FR1 n48_Ant 6	40M	BPSK	1	104	Back	10mm	4	641666	3624.99	19.17	20.90	1.489	-0.1	0.229	0.341
	FR1 n48_Ant 6	40M	BPSK	50	25	Back	10mm	4	641666	3624.99	19.22	20.90	1.472	-0.1	0.211	0.311
	FR1 n48_Ant 6	40M	BPSK	1	104	Left Edge	10mm	4	641666	3624.99	19.17	20.90	1.489	0.07	0.283	0.421
	FR1 n48_Ant 6	40M	BPSK	50	25	Left Edge	10mm	4	641666	3624.99	19.22	20.90	1.472	0.18	0.307	0.452
	FR1 n48_Ant 6	40M	BPSK	1	104	Right Edge	10mm	4	641666	3624.99	19.17	20.90	1.489	-0.1	0.045	0.067
	FR1 n48_Ant 6	40M	BPSK	50	25	Right Edge	10mm	4	641666	3624.99	19.22	20.90	1.472	0.01	0.043	0.063
	FR1 n48_Ant 6	40M	BPSK	1	104	Bottom Edge	10mm	4	641666	3624.99	19.17	20.90	1.489	0.16	0.372	0.554
	FR1 n48_Ant 6	40M	BPSK	50	25	Bottom Edge	10mm	4	641666	3624.99	19.22	20.90	1.472	-0.15	0.364	0.536
	FR1 n48_Ant 7	40M	BPSK	1	104	Front	10mm	4	641666	3624.99	18.39	19.60	1.321	0.08	0.178	0.235
	FR1 n48_Ant 7	40M	BPSK	50	25	Front	10mm	4	641666	3624.99	18.43	19.60	1.309	0.02	0.184	0.241
	FR1 n48_Ant 7	40M	BPSK	1	104	Back	10mm	4	641666	3624.99	18.39	19.60	1.321	0.03	0.230	0.304
	FR1 n48_Ant 7	40M	BPSK	50	25	Back	10mm	4	641666	3624.99	18.43	19.60	1.309	-0.08	0.234	0.306
	FR1 n48_Ant 7	40M	BPSK	1	104	Left Edge	10mm	4	641666	3624.99	18.39	19.60	1.321	-0.08	0.001	0.001
	FR1 n48_Ant 7	40M	BPSK	50	25	Left Edge	10mm	4	641666	3624.99	18.43	19.60	1.309	0.1	0.001	0.001
	FR1 n48_Ant 7	40M	BPSK	1	104	Right Edge	10mm	4	641666	3624.99	18.39	19.60	1.321	-0.18	0.406	0.536
	FR1 n48_Ant 7	40M	BPSK	50	25	Right Edge	10mm	4	641666	3624.99	18.43	19.60	1.309	0.01	0.454	0.594
	FR1 n48_Ant 7	40M	BPSK	1	104	Bottom Edge	10mm	4	641666	3624.99	18.39	19.60	1.321	0.1	0.065	0.086
	FR1 n48_Ant 7	40M	BPSK	50	25	Bottom Edge	10mm	4	641666	3624.99	18.43	19.60	1.309	0.12	0.080	0.105
	FR1 n48_Ant 1	40M	BPSK	1	1	Front	10mm	4	641666	3624.985	17.75	19.00	1.334	-0.19	0.197	0.263
	FR1 n48_Ant 1	40M	BPSK	50	25	Front	10mm	4	641666	3624.99	17.61	19.00	1.377	0.1	0.183	0.252
	FR1 n48_Ant 1	40M	BPSK	1	1	Back	10mm	4	641666	3624.985	17.75	19.00	1.334	-0.18	0.257	0.343
	FR1 n48_Ant 1	40M	BPSK	50	25	Back	10mm	4	641666	3624.99	17.61	19.00	1.377	-0.08	0.239	0.329
	FR1 n48_Ant 1	40M	BPSK	1	1	Left Edge	10mm	4	641666	3624.985	17.75	19.00	1.334	-0.12	0.362	0.483
	FR1 n48_Ant 1	40M	BPSK	50	25	Left Edge	10mm	4	641666	3624.99	17.61	19.00	1.377	0.08	0.344	0.474
	FR1 n48_Ant 1	40M	BPSK	1	1	Right Edge	10mm	4	641666	3624.99	17.75	19.00	1.334	0.01	0.093	0.124
	FR1 n48_Ant 1	40M	BPSK	50	25	Right Edge	10mm	4	641666	3624.99	17.61	19.00	1.377	0.03	0.076	0.105
	FR1 n48_Ant 1	40M	BPSK	1	1	Top Edge	10mm	4	641666	3624.985	17.75	19.00	1.334	-0.1	0.330	0.440
	FR1 n48_Ant 1	40M	BPSK	1	1	Top Edge	10mm	4	641666	3624.99	17.61	19.00	1.377	-0.08	0.311	0.428
	FR1 n48_Ant 5	40M	BPSK	1	104	Front	10mm	4	641666	3624.99	18.24	19.50	1.337	0.18	0.134	0.179



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	FR1 n48_Ant 5	20M	BPSK	1	1	Front	10mm	4	641666	3624.99	21.80	22.30	1.122	-0.16	0.311	0.349
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	4	641666	3624.99	21.82	22.30	1.117	-0.04	0.301	0.336
	FR1 n48_Ant 5	40M	BPSK	1	104	Back	10mm	4	641666	3624.99	18.24	19.50	1.337	-0.08	0.190	0.254
	FR1 n48_Ant 5	20M	BPSK	1	1	Back	10mm	4	641666	3624.99	21.80	22.30	1.122	-0.08	0.425	0.477
	FR1 n48_Ant 5	40M	BPSK	50	25	Back	10mm	4	641666	3624.99	21.82	22.30	1.117	-0.13	0.408	0.456
	FR1 n48_Ant 5	40M	BPSK	1	104	Left Edge	10mm	4	641666	3624.99	18.24	19.50	1.337	0.06	0.023	0.031
	FR1 n48_Ant 5	20M	BPSK	1	1	Left Edge	10mm	4	641666	3624.99	21.80	22.30	1.122	-0.03	0.046	0.052
	FR1 n48_Ant 5	40M	BPSK	50	25	Left Edge	10mm	4	641666	3624.99	21.82	22.30	1.117	-0.03	0.038	0.042
	FR1 n48_Ant 5	40M	BPSK	1	104	Right Edge	10mm	4	641666	3624.99	18.24	19.50	1.337	0.08	0.257	0.344
60	FR1 n48_Ant 5	20M	BPSK	1	1	Right Edge	10mm	4	641666	3624.99	21.80	22.30	1.122	-0.04	0.594	0.666
	FR1 n48_Ant 5	20M	BPSK	1	49	Right Edge	10mm	4	637334	3560.01	21.80	22.30	1.122	0.12	0.555	0.623
	FR1 n48_Ant 5	20M	BPSK	1	1	Right Edge	10mm	4	646000	3690	21.78	22.30	1.127	0.08	0.545	0.614
	FR1 n48_Ant 5	40M	BPSK	50	25	Right Edge	10mm	4	641666	3624.99	21.82	22.30	1.117	-0.07	0.569	0.635
	FR1 n48_Ant 5	20M	BPSK	25	12	Right Edge	10mm	4	637334	3560.01	21.77	22.30	1.130	-0.17	0.566	0.639
	FR1 n48_Ant 5	30M	BPSK	36	18	Right Edge	10mm	4	645666	3684.99	21.80	22.30	1.122	-0.03	0.558	0.626
	FR1 n48_Ant 5	40M	BPSK	1	104	Top Edge	10mm	4	641666	3624.99	18.24	19.50	1.337	0.05	0.251	0.335
	FR1 n48_Ant 5	20M	BPSK	1	1	Top Edge	10mm	4	641666	3624.99	21.80	22.30	1.122	-0.03	0.569	0.638
	FR1 n48_Ant 5	20M	BPSK	1	49	Top Edge	10mm	4	637334	3560.01	21.80	22.30	1.122	-0.11	0.532	0.597
	FR1 n48_Ant 5	20M	BPSK	1	1	Top Edge	10mm	4	646000	3690	21.78	22.30	1.127	-0.12	0.522	0.588
	FR1 n48_Ant 5	40M	BPSK	50	25	Top Edge	10mm	4	641666	3624.99	21.82	22.30	1.117	0.03	0.536	0.599
	FR1 n48_Ant 5	20M	BPSK	25	12	Top Edge	10mm	4	637334	3560.01	21.77	22.30	1.130	-0.16	0.533	0.602
	FR1 n48_Ant 5	30M	BPSK	36	18	Top Edge	10mm	4	645666	3684.99	21.80	22.30	1.122	-0.02	0.526	0.590
	FR1 n66_Ant 2	40M	BPSK	1	1	Front	10mm	4	349000	1745	20.39	21.30	1.233	0.01	0.230	0.284
	FR1 n66_Ant 2	40M	BPSK	108	54	Front	10mm	4	349000	1745	20.43	21.30	1.222	-0.04	0.247	0.302
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	4	349000	1745	20.39	21.30	1.233	0.12	0.272	0.335
	FR1 n66_Ant 2	40M	BPSK	108	54	Back	10mm	4	349000	1745	20.43	21.30	1.222	0.11	0.293	0.358
	FR1 n66_Ant 2	40M	BPSK	1	1	Left Edge	10mm	4	349000	1745	20.39	21.30	1.233	0.08	0.001	0.001
	FR1 n66_Ant 2	40M	BPSK	108	54	Left Edge	10mm	4	349000	1745	20.43	21.30	1.222	-0.17	0.001	0.001
	FR1 n66_Ant 2	40M	BPSK	1	1	Right Edge	10mm	4	349000	1745	20.39	21.30	1.233	-0.03	0.326	0.402
	FR1 n66_Ant 2	40M	BPSK	108	54	Right Edge	10mm	4	349000	1745	20.43	21.30	1.222	-0.01	0.334	0.408
	FR1 n66_Ant 2	40M	BPSK	1	1	Bottom Edge	10mm	4	349000	1745	20.39	21.30	1.233	0.14	0.164	0.202
	FR1 n66_Ant 2	40M	BPSK	108	54	Bottom Edge	10mm	4	349000	1745	20.43	21.30	1.222	0.11	0.199	0.243
	FR1 n66_Ant 0	40M	BPSK	1	1	Front	10mm	4	349000	1745	17.33	18.60	1.340	-0.13	0.337	0.451
	FR1 n66_Ant 0	40M	BPSK	108	54	Front	10mm	4	349000	1745	17.37	18.60	1.327	0.08	0.303	0.402
	FR1 n66_Ant 0	40M	BPSK	1	1	Back	10mm	4	349000	1745	17.33	18.60	1.340	-0.1	0.440	0.589
	FR1 n66_Ant 0	40M	BPSK	108	54	Back	10mm	4	349000	1745	17.37	18.60	1.327	0.01	0.382	0.507
	FR1 n66_Ant 0	40M	BPSK	1	1	Left Edge	10mm	4	349000	1745	17.33	18.60	1.340	-0.13	0.093	0.125
	FR1 n66_Ant 0	40M	BPSK	108	54	Left Edge	10mm	4	349000	1745	17.37	18.60	1.327	0.01	0.085	0.113
	FR1 n66_Ant 0	40M	BPSK	1	1	Right Edge	10mm	4	349000	1745	17.33	18.60	1.340	0.1	0.001	0.001
	FR1 n66_Ant 0	40M	BPSK	108	54	Right Edge	10mm	4	349000	1745	17.37	18.60	1.327	-0.18	0.001	0.001
	FR1 n66_Ant 0	40M	BPSK	1	1	Bottom Edge	0mm	4	349000	1745	17.33	18.60	1.340	0.1	0.523	0.701
	FR1 n66_Ant 0	40M	BPSK	108	54	Bottom Edge	10mm	4	349000	1745	17.37	18.60	1.327	-0.03	0.605	0.803
	FR1 n66_Ant 0	40M	BPSK	216	0	Bottom Edge	10mm	4	349000	1745	17.36	18.60	1.330	0.08	0.556	0.740
	FR1 n66_Ant 1	40M	BPSK	1	1	Front	10mm	4	349000	1745	21.91	22.60	1.172	0.08	0.353	0.414
	FR1 n66_Ant 1	40M	BPSK	108	54	Front	10mm	4	349000	1745	21.89	22.60	1.178	0	0.414	0.488
	FR1 n66_Ant 1	40M	BPSK	1	1	Back	10mm	4	349000	1745	21.91	22.60	1.172	0.03	0.510	0.598
	FR1 n66_Ant 1	40M	BPSK	108	54	Back	10mm	4	349000	1745	21.89	22.60	1.178	-0.1	0.613	0.722
	FR1 n66_Ant 1	40M	BPSK	1	1	Left Edge	10mm	4	349000	1745	21.91	22.60	1.172	-0.08	0.190	0.223
	FR1 n66_Ant 1	40M	BPSK	108	54	Left Edge	10mm	4	349000	1745	21.89	22.60	1.178	-0.02	0.224	0.264
	FR1 n66_Ant 1	40M	BPSK	1	1	Right Edge	10mm	4	349000	1745	21.91	22.60	1.172	0.1	0.001	0.001
	FR1 n66_Ant 1	40M	BPSK	108	54	Right Edge	10mm	4	349000	1745	21.89	22.60	1.178	-0.18	0.001	0.001
	FR1 n66_Ant 1	40M	BPSK	1	1	Top Edge	10mm	4	349000	1745	21.91	22.60	1.172	0.1	0.368	0.431
	FR1 n66_Ant 1	40M	BPSK	108	54	Top Edge	10mm	4	349000	1745	21.89	22.60	1.178	0.05	0.538	0.634
	FR1 n66_Ant 5	40M	BPSK	1	1	Front	10mm	4	349000	1745	20.95	22.6	1.462	0	0.365	0.534
	FR1 n66_Ant 5	40M	BPSK	108	54	Front	10mm	4	349000	1745	20.95	22.6	1.462	0.01	0.362	0.529
	FR1 n66_Ant 5	40M	BPSK	1	1	Back	10mm	4	349000	1745	20.95	22.6	1.462	0.08	0.373	0.545



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	FR1 n66_Ant 5	40M	BPSK	108	54	Back	10mm	4	349000	1745	20.95	22.6	1.462	0.03	0.369	0.540
	FR1 n66_Ant 5	40M	BPSK	1	1	Left Edge	10mm	4	349000	1745	20.95	22.6	1.462	-0.08	0.058	0.085
	FR1 n66_Ant 5	40M	BPSK	108	54	Left Edge	10mm	4	349000	1745	20.95	22.6	1.462	-0.08	0.053	0.077
	FR1 n66_Ant 5	40M	BPSK	1	1	Right Edge	10mm	4	349000	1745	20.95	22.6	1.462	0.1	0.514	0.752
61	FR1 n66_Ant 5	40M	BPSK	108	54	Right Edge	10mm	4	349000	1745	20.95	22.6	1.462	-0.01	0.579	0.847
	FR1 n66_Ant 5	40M	BPSK	216	0	Right Edge	10mm	4	349000	1745	20.97	22.6	1.455	-0.18	0.448	0.652
	FR1 n66_Ant 5	40M	BPSK	1	1	Top Edge	10mm	4	349000	1745	20.95	22.6	1.462	0.1	0.108	0.158
	FR1 n66_Ant 5	40M	BPSK	108	54	Top Edge	10mm	4	349000	1745	20.95	22.6	1.462	0.12	0.121	0.177
	FR1 n70_Ant 2	15M	BPSK	1	1	Front	10mm	4	340500	1702.5	22.04	22.10	1.014	0.05	0.313	0.317
	FR1 n70_Ant 2	15M	BPSK	36	22	Front	10mm	4	340500	1702.5	21.96	22.10	1.033	-0.07	0.316	0.326
	FR1 n70_Ant 2	15M	BPSK	1	1	Back	10mm	4	340500	1702.5	22.04	22.10	1.014	0.1	0.445	0.451
	FR1 n70_Ant 2	15M	BPSK	36	22	Back	10mm	4	340500	1702.5	21.96	22.10	1.033	-0.08	0.430	0.444
	FR1 n70_Ant 2	15M	BPSK	1	1	Left Edge	10mm	4	340500	1702.5	22.04	22.10	1.014	-0.08	0.074	0.075
	FR1 n70_Ant 2	15M	BPSK	36	22	Left Edge	10mm	4	340500	1702.5	21.96	22.10	1.033	0.1	0.066	0.068
	FR1 n70_Ant 2	15M	BPSK	1	1	Right Edge	10mm	4	340500	1702.5	22.04	22.10	1.014	-0.18	0.458	0.464
	FR1 n70_Ant 2	15M	BPSK	36	22	Right Edge	10mm	4	340500	1702.5	21.96	22.10	1.033	0.01	0.475	0.491
	FR1 n70_Ant 2	15M	BPSK	1	1	Bottom Edge	10mm	4	340500	1702.5	22.04	22.10	1.014	0.1	0.235	0.238
	FR1 n70_Ant 2	15M	BPSK	36	22	Bottom Edge	10mm	4	340500	1702.5	21.96	22.10	1.033	0.12	0.237	0.245
	FR1 n70_Ant 0	15M	BPSK	1	1	Front	10mm	4	340500	1702.5	17.24	18.50	1.337	-0.15	0.309	0.413
	FR1 n70_Ant 0	15M	BPSK	36	22	Front	10mm	4	340500	1702.5	17.20	18.50	1.349	0.01	0.296	0.399
	FR1 n70_Ant 0	15M	BPSK	1	1	Back	10mm	4	340500	1702.5	17.24	18.50	1.337	-0.16	0.450	0.601
	FR1 n70_Ant 0	15M	BPSK	36	22	Back	10mm	4	340500	1702.5	17.20	18.50	1.349	-0.15	0.419	0.565
	FR1 n70_Ant 0	15M	BPSK	1	1	Left Edge	10mm	4	340500	1702.5	17.24	18.50	1.337	0.04	0.080	0.107
	FR1 n70_Ant 0	15M	BPSK	36	22	Left Edge	10mm	4	340500	1702.5	17.20	18.50	1.349	0.03	0.076	0.103
	FR1 n70_Ant 0	15M	BPSK	1	1	Right Edge	10mm	4	340500	1702.5	17.24	18.50	1.337	-0.18	0.001	0.001
	FR1 n70_Ant 0	15M	BPSK	36	22	Right Edge	10mm	4	340500	1702.5	17.20	18.50	1.349	0.03	0.001	0.001
62	FR1 n70_Ant 0	15M	BPSK	1	1	Bottom Edge	10mm	4	340500	1702.5	17.24	18.50	1.337	0	0.600	0.802
	FR1 n70_Ant 0	15M	BPSK	36	22	Bottom Edge	10mm	4	340500	1702.5	17.20	18.50	1.349	-0.15	0.562	0.758
	FR1 n70_Ant 0	15M	BPSK	75	0	Bottom Edge	10mm	4	340500	1702.5	17.23	18.50	1.340	-0.15	0.559	0.749
	FR1 n71_Ant 0	20M	BPSK	1	1	Front	10mm	4	136100	680.5	24.60	25.10	1.122	0.03	0.263	0.295
	FR1 n71_Ant 0	20M	BPSK	50	28	Front	10mm	4	136100	680.5	24.58	25.10	1.127	-0.01	0.266	0.300
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	4	136100	680.5	24.60	25.10	1.122	-0.01	0.318	0.357
	FR1 n71_Ant 0	20M	BPSK	50	28	Back	10mm	4	136100	680.5	24.58	25.10	1.127	0.08	0.308	0.347
	FR1 n71_Ant 0	20M	BPSK	1	1	Left Edge	10mm	4	136100	680.5	24.60	25.10	1.122	-0.08	0.376	0.422
63	FR1 n71_Ant 0	20M	BPSK	50	28	Left Edge	10mm	4	136100	680.5	24.58	25.10	1.127	-0.02	0.399	0.450
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Edge	10mm	4	136100	680.5	24.60	25.10	1.122	0.1	0.185	0.208
	FR1 n71_Ant 0	20M	BPSK	50	28	Right Edge	10mm	4	136100	680.5	24.58	25.10	1.127	-0.18	0.201	0.227
	FR1 n71_Ant 0	20M	BPSK	1	1	Bottom Edge	10mm	4	136100	680.5	24.60	25.10	1.122	0.1	0.156	0.175
	FR1 n71_Ant 0	20M	BPSK	50	28	Bottom Edge	10mm	4	136100	680.5	24.58	25.10	1.127	0.12	0.147	0.166
	FR1 n71_Ant 1	20M	BPSK	1	1	Front	10mm	4	136100	680.5	24.26	24.70	1.107	0.08	0.246	0.272
	FR1 n71_Ant 1	20M	BPSK	50	28	Front	10mm	4	136100	680.5	24.32	24.70	1.091	0	0.274	0.299
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	4	136100	680.5	24.26	24.70	1.107	0.01	0.276	0.305
	FR1 n71_Ant 1	20M	BPSK	50	28	Back	10mm	4	136100	680.5	24.32	24.70	1.091	-0.03	0.317	0.346
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Edge	10mm	4	136100	680.5	24.26	24.70	1.107	0.03	0.212	0.235
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Edge	10mm	4	136100	680.5	24.32	24.70	1.091	-0.02	0.248	0.271
	FR1 n71_Ant 1	20M	BPSK	1	1	Right Edge	10mm	4	136100	680.5	24.26	24.70	1.107	-0.08	0.143	0.158
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Edge	10mm	4	136100	680.5	24.32	24.70	1.091	-0.08	0.209	0.228
	FR1 n71_Ant 1	20M	BPSK	1	1	Top Edge	10mm	4	136100	680.5	24.26	24.70	1.107	0.1	0.104	0.115
	FR1 n71_Ant 1	20M	BPSK	50	28	Top Edge	10mm	4	136100	680.5	24.32	24.70	1.091	-0.18	0.096	0.105
	FR1 n77_Ant 6	100M	BPSK	1	137	Front	10mm	4	656000	3840	18.28	18.70	1.102	-0.03	0.282	0.311
	FR1 n77_Ant 6	100M	BPSK	135	69	Front	10mm	4	656000	3840	18.27	18.70	1.104	-0.14	0.283	0.312
	FR1 n77_Ant 6	100M	BPSK	1	137	Back	10mm	4	656000	3840	18.28	18.70	1.102	0.11	0.317	0.349
	FR1 n77_Ant 6	100M	BPSK	135	69	Back	10mm	4	656000	3840	18.27	18.70	1.104	-0.12	0.336	0.371
	FR1 n77_Ant 6	100M	BPSK	1	137	Left Edge	10mm	4	656000	3840	18.28	18.70	1.102	-0.05	0.488	0.538
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Edge	10mm	4	656000	3840	18.27	18.70	1.104	0.01	0.590	0.651
	FR1 n77_Ant 6	100M	BPSK	1	137	Right Edge	10mm	4	656000	3840	18.28	18.70	1.102	0.18	0.099	0.109



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	FR1 n77_Ant 6	100M	BPSK	135	69	Right Edge	10mm	4	656000	3840	18.27	18.70	1.104	0.14	0.077	0.085
	FR1 n77_Ant 6	100M	BPSK	1	137	Bottom Edge	10mm	4	656000	3840	18.28	18.70	1.102	-0.17	0.361	0.398
	FR1 n77_Ant 6	100M	BPSK	135	69	Bottom Edge	10mm	4	656000	3840	18.27	18.70	1.104	0.17	0.378	0.417
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	137	Left Edge	10mm	4	656000	3840	21.33	21.70	1.089	0.01	0.548	0.597
	FR1 n77_Ant 6	100M	BPSK	1	137	Front	10mm	4	633332	3499.98	18.33	18.70	1.089	0.08	0.264	0.287
	FR1 n77_Ant 6	100M	BPSK	135	69	Front	10mm	4	633332	3499.98	18.30	18.70	1.096	-0.14	0.280	0.307
	FR1 n77_Ant 6	100M	BPSK	1	137	Back	10mm	4	633332	3499.98	18.33	18.70	1.089	0.03	0.368	0.401
	FR1 n77_Ant 6	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	18.30	18.70	1.096	0.05	0.442	0.485
64	FR1 n77_Ant 6	100M	BPSK	1	137	Left Edge	10mm	4	633332	3499.98	18.33	18.70	1.089	-0.06	0.637	0.694
	FR1 n77_Ant 6	100M	BPSK	135	69	Left Edge	10mm	4	633332	3499.98	18.30	18.70	1.096	-0.08	0.564	0.618
	FR1 n77_Ant 6	100M	BPSK	1	137	Right Edge	10mm	4	633332	3499.98	18.33	18.70	1.089	-0.08	0.058	0.063
	FR1 n77_Ant 6	100M	BPSK	135	69	Right Edge	10mm	4	633332	3499.98	18.30	18.70	1.096	0.1	0.054	0.059
	FR1 n77_Ant 6	100M	BPSK	1	137	Bottom Edge	10mm	4	633332	3499.98	18.33	18.70	1.089	-0.18	0.373	0.406
	FR1 n77_Ant 6	100M	BPSK	135	69	Bottom Edge	10mm	4	633332	3499.98	18.30	18.70	1.096	0.1	0.391	0.429
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	137	Left Edge	10mm	4	633332	3499.98	21.35	21.70	1.084	0.08	0.597	0.647
	FR1 n77_Ant 7	100M	BPSK	1	137	Front	10mm	4	656000	3840	18.45	18.90	1.109	0.08	0.216	0.240
	FR1 n77_Ant 7	100M	BPSK	135	69	Front	10mm	4	656000	3840	18.41	18.90	1.119	-0.15	0.229	0.256
	FR1 n77_Ant 7	100M	BPSK	1	137	Back	10mm	4	656000	3840	18.45	18.90	1.109	0.03	0.274	0.304
	FR1 n77_Ant 7	100M	BPSK	135	69	Back	10mm	4	656000	3840	18.41	18.90	1.119	-0.13	0.320	0.358
	FR1 n77_Ant 7	100M	BPSK	1	137	Left Edge	10mm	4	656000	3840	18.45	18.90	1.109	-0.08	0.001	0.001
	FR1 n77_Ant 7	100M	BPSK	135	69	Left Edge	10mm	4	656000	3840	18.41	18.90	1.119	0.1	0.001	0.001
	FR1 n77_Ant 7	100M	BPSK	1	137	Right Edge	10mm	4	656000	3840	18.45	18.90	1.109	0.05	0.481	0.534
	FR1 n77_Ant 7	100M	BPSK	135	69	Right Edge	10mm	4	656000	3840	18.41	18.90	1.119	-0.18	0.368	0.412
	FR1 n77_Ant 7	100M	BPSK	1	137	Bottom Edge	10mm	4	656000	3840	18.45	18.90	1.109	0.1	0.070	0.078
	FR1 n77_Ant 7	100M	BPSK	135	69	Bottom Edge	10mm	4	656000	3840	18.41	18.90	1.119	0.12	0.066	0.074
	FR1 n77_HPUE_Ant 7	100M	BPSK	1	137	Right Edge	10mm	4	656000	3840	21.50	21.70	1.047	0.08	0.455	0.476
	FR1 n77_Ant 7	100M	BPSK	1	137	Front	10mm	4	633332	3499.98	18.56	18.90	1.081	0.18	0.244	0.264
	FR1 n77_Ant 7	100M	BPSK	135	69	Front	10mm	4	633332	3499.98	18.53	18.90	1.089	-0.12	0.251	0.273
	FR1 n77_Ant 7	100M	BPSK	1	137	Back	10mm	4	633332	3499.98	18.56	18.90	1.081	-0.17	0.280	0.303
	FR1 n77_Ant 7	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	18.53	18.90	1.089	0.09	0.304	0.331
	FR1 n77_Ant 7	100M	BPSK	1	137	Left Edge	10mm	4	633332	3499.98	18.56	18.90	1.081	-0.05	0.043	0.047
	FR1 n77_Ant 7	100M	BPSK	135	69	Left Edge	10mm	4	633332	3499.98	18.53	18.90	1.089	0.01	0.001	0.001
	FR1 n77_Ant 7	100M	BPSK	1	137	Right Edge	10mm	4	633332	3499.98	18.56	18.90	1.081	0.1	0.398	0.430
	FR1 n77_Ant 7	100M	BPSK	135	69	Right Edge	10mm	4	633332	3499.98	18.53	18.90	1.089	-0.1	0.555	0.604
	FR1 n77_Ant 7	100M	BPSK	1	137	Bottom Edge	10mm	4	633332	3499.98	18.56	18.90	1.081	-0.17	0.126	0.136
	FR1 n77_Ant 7	100M	BPSK	135	69	Bottom Edge	10mm	4	633332	3499.98	18.53	18.90	1.089	0.04	0.110	0.120
	FR1 n77_HPUE_Ant 7	100M	BPSK	1	137	Right Edge	10mm	4	633332	3499.98	21.59	21.70	1.026	-0.01	0.544	0.558
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	4	656000	3840	17.69	18.30	1.151	-0.03	0.197	0.227
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	4	656000	3840	17.65	18.30	1.161	0.14	0.121	0.141
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	4	656000	3840	17.69	18.30	1.151	0.11	0.274	0.315
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	4	656000	3840	17.65	18.30	1.161	-0.05	0.271	0.315
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Edge	10mm	4	656000	3840	17.69	18.30	1.151	0.03	0.425	0.489
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Edge	10mm	4	656000	3840	17.65	18.30	1.161	0.14	0.323	0.375
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Edge	10mm	4	656000	3840	17.69	18.30	1.151	-0.17	0.034	0.039
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Edge	10mm	4	656000	3840	17.65	18.30	1.161	0.17	0.000	0.000
	FR1 n77_Ant 1	100M	BPSK	1	1	Top Edge	10mm	4	656000	3840	17.69	18.30	1.151	-0.05	0.111	0.128
	FR1 n77_Ant 1	100M	BPSK	135	69	Top Edge	10mm	4	656000	3840	17.65	18.30	1.161	0.01	0.098	0.114
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Left Edge	10mm	4	656000	3840	20.79	21.30	1.125	-0.17	0.427	0.480
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	4	633332	3499.98	17.88	18.30	1.102	-0.08	0.098	0.108
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	4	633332	3499.98	17.84	18.30	1.112	0.05	0.091	0.101
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	4	633332	3499.98	17.88	18.30	1.102	0.06	0.172	0.189
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	17.84	18.30	1.112	-0.09	0.122	0.136
	FR1 n77_Ant 1	100M	BPSK	1	1	Left Edge	10mm	4	633332	3499.98	17.88	18.30	1.102	-0.11	0.257	0.283
	FR1 n77_Ant 1	100M	BPSK	135	69	Left Edge	10mm	4	633332	3499.98	17.84	18.30	1.112	0.13	0.159	0.177
	FR1 n77_Ant 1	100M	BPSK	1	1	Right Edge	10mm	4	633332	3499.98	17.88	18.30	1.102	0.12	0.052	0.057
	FR1 n77_Ant 1	100M	BPSK	135	69	Right Edge	10mm	4	633332	3499.98	17.84	18.30	1.112	0.03	0.055	0.061



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FR1 n77_Ant 1	100M	BPSK	1	1	Top Edge	10mm	4	633332	3499.98	17.88	18.30	1.102	0.18	0.160	0.176
FR1 n77_Ant 1	100M	BPSK	135	69	Top Edge	10mm	4	633332	3499.98	17.84	18.30	1.112	0.16	0.133	0.148
FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Left Edge	10mm	4	633332	3499.98	20.92	21.30	1.091	0.07	0.244	0.266
FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	4	656000	3840	21.00	21.70	1.175	0.08	0.173	0.203
FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	4	656000	3840	20.96	21.70	1.186	-0.04	0.194	0.230
FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	4	656000	3840	21.00	21.70	1.175	0.1	0.261	0.307
FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	4	656000	3840	20.96	21.70	1.186	0.03	0.187	0.222
FR1 n77_Ant 5	100M	BPSK	1	1	Left Edge	10mm	4	656000	3840	21.00	21.70	1.175	-0.08	0.052	0.061
FR1 n77_Ant 5	100M	BPSK	135	69	Left Edge	10mm	4	656000	3840	20.96	21.70	1.186	-0.08	0.033	0.039
FR1 n77_Ant 5	100M	BPSK	1	1	Right Edge	10mm	4	656000	3840	21.00	21.70	1.175	-0.09	0.192	0.226
FR1 n77_Ant 5	100M	BPSK	135	69	Right Edge	10mm	4	656000	3840	20.96	21.70	1.186	-0.18	0.189	0.224
FR1 n77_Ant 5	100M	BPSK	1	1	Top Edge	10mm	4	656000	3840	21.00	21.70	1.175	-0.01	0.261	0.307
FR1 n77_Ant 5	100M	BPSK	135	69	Top Edge	10mm	4	656000	3840	20.96	21.70	1.186	0.1	0.133	0.158
FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Top Edge	10mm	4	656000	3840	24.13	24.70	1.140	0.08	0.255	0.291
FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	4	633332	3499.98	21.25	21.70	1.109	0.13	0.191	0.212
FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	4	633332	3499.98	21.10	21.70	1.148	-0.02	0.213	0.245
FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	4	633332	3499.98	21.25	21.70	1.109	0.12	0.202	0.224
FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	4	633332	3499.98	21.10	21.70	1.148	0.03	0.188	0.216
FR1 n77_Ant 5	100M	BPSK	1	1	Left Edge	10mm	4	633332	3499.98	21.25	21.70	1.109	0.18	0.051	0.057
FR1 n77_Ant 5	100M	BPSK	135	69	Left Edge	10mm	4	633332	3499.98	21.10	21.70	1.148	0.16	0.001	0.001
FR1 n77_Ant 5	100M	BPSK	1	1	Right Edge	10mm	4	633332	3499.98	21.25	21.70	1.109	-0.11	0.340	0.377
FR1 n77_Ant 5	100M	BPSK	135	69	Right Edge	10mm	4	633332	3499.98	21.10	21.70	1.148	-0.1	0.218	0.250
FR1 n77_Ant 5	100M	BPSK	1	1	Top Edge	10mm	4	633332	3499.98	21.25	21.70	1.109	0.07	0.078	0.087
FR1 n77_Ant 5	100M	BPSK	135	69	Top Edge	10mm	4	633332	3499.98	21.10	21.70	1.148	0.18	0.070	0.080
FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Right Edge	10mm	4	633332	3499.98	24.23	24.70	1.114	0.01	0.314	0.350

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
65	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	4	11	2462	16.33	16.50	1.040	100	1.000	0.02	0.113	0.118
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	4	11	2462	16.33	16.50	1.040	100	1.000	-0.06	0.151	0.157
	WLAN2.4GHz	802.11b 1Mbps	Left Edge	10mm	Ant 3	4	11	2462	16.33	16.50	1.040	100	1.000	0	0.233	0.242
	WLAN2.4GHz	802.11b 1Mbps	Right Edge	10mm	Ant 3	4	11	2462	16.33	16.50	1.040	100	1.000	0.17	0.007	0.007
	WLAN2.4GHz	802.11b 1Mbps	Top Edge	10mm	Ant 3	4	11	2462	16.33	16.50	1.040	100	1.000	0.13	0.035	0.036
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	4	6	2437	15.67	16.50	1.211	100	1.000	0.09	0.049	0.059
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	4	6	2437	15.67	16.50	1.211	100	1.000	-0.14	0.051	0.062
	WLAN2.4GHz	802.11b 1Mbps	Left Edge	10mm	Ant 4	4	6	2437	15.67	16.50	1.211	100	1.000	-0.11	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Edge	10mm	Ant 4	4	6	2437	15.67	16.50	1.211	100	1.000	-0.05	0.088	0.107
	WLAN2.4GHz	802.11b 1Mbps	Top Edge	10mm	Ant 4	4	6	2437	15.67	16.50	1.211	100	1.000	0.1	0.012	0.015
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3+4(3)	4	11	2462	16.50	16.50	1.000	100	1.000	0.07	0.091	0.091
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3+4(4)	4	11	2462	15.37	16.50	1.297	100	1.000	0.07	0.058	0.075
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3+4(3)	4	11	2462	16.50	16.50	1.000	100	1.000	-0.06	0.116	0.116
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3+4(4)	4	11	2462	15.37	16.50	1.297	100	1.000	-0.06	0.112	0.145
	WLAN2.4GHz	802.11b 1Mbps	Left Edge	10mm	Ant 3+4(3)	4	11	2462	16.50	16.50	1.000	100	1.000	-0.15	0.225	0.225
	WLAN2.4GHz	802.11b 1Mbps	Left Edge	10mm	Ant 3+4(4)	4	11	2462	15.37	16.50	1.297	100	1.000	-0.15	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Edge	10mm	Ant 3+4(3)	4	11	2462	16.50	16.50	1.000	100	1.000	0.05	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Edge	10mm	Ant 3+4(4)	4	11	2462	15.37	16.50	1.297	100	1.000	0.05	0.104	0.135
	WLAN2.4GHz	802.11b 1Mbps	Top Edge	10mm	Ant 3+4(3)	4	11	2462	16.50	16.50	1.000	100	1.000	-0.06	0.061	0.061
	WLAN2.4GHz	802.11b 1Mbps	Top Edge	10mm	Ant 3+4(4)	4	11	2462	15.37	16.50	1.297	100	1.000	-0.06	0.040	0.052
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	4	46	5230	15.70	16.00	1.072	99.03	1.010	-0.16	0.108	0.117
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	4	46	5230	15.95	16.00	1.012	99.03	1.010	-0.16	0.102	0.104
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(3)	4	46	5230	15.70	16.00	1.072	99.03	1.010	-0.14	0.131	0.142
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(4)	4	46	5230	15.95	16.00	1.012	99.03	1.010	-0.14	0.104	0.106
	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	10mm	Ant 3+4(3)	4	46	5230	15.70	16.00	1.072	99.03	1.010	-0.05	0.240	0.260
	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	10mm	Ant 3+4(4)	4	46	5230	15.95	16.00	1.012	99.03	1.010	-0.05	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Edge	10mm	Ant 3+4(3)	4	46	5230	15.70	16.00	1.072	99.03	1.010	-0.06	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Edge	10mm	Ant 3+4(4)	4	46	5230	15.95	16.00	1.012	99.03	1.010	-0.06	0.032	0.033
	WLAN5GHz	802.11n-HT40 MCS0	Top Edge	10mm	Ant 3+4(3)	4	46	5230	15.70	16.00	1.072	99.03	1.010	-0.05	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Top Edge	10mm	Ant 3+4(4)	4	46	5230	15.95	16.00	1.012	99.03	1.010	-0.05	0.121	0.124
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	4	155	5775	13.55	14.00	1.109	97.76	1.023	-0.17	0.069	0.078
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	4	155	5775	13.95	14.00	1.012	97.76	1.023	-0.17	0.055	0.057
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	4	155	5775	13.55	14.00	1.109	97.76	1.023	-0.1	0.089	0.101
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	4	155	5775	13.95	14.00	1.012	97.76	1.023	-0.1	0.049	0.051
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	10mm	Ant 3+4(3)	4	155	5775	13.55	14.00	1.109	97.76	1.023	-0.04	0.189	0.214
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	10mm	Ant 3+4(4)	4	155	5775	13.95	14.00	1.012	97.76	1.023	-0.04	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	10mm	Ant 3+4(3)	4	155	5775	13.55	14.00	1.109	97.76	1.023	0.03	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	10mm	Ant 3+4(4)	4	155	5775	13.95	14.00	1.012	97.76	1.023	-0.08	0.078	0.081
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	10mm	Ant 3+4(3)	4	155	5775	13.55	14.00	1.109	97.76	1.023	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	10mm	Ant 3+4(4)	4	155	5775	13.95	14.00	1.012	97.76	1.023	-0.15	0.078	0.081

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.02	0.078	0.107	0.637	0.874
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.02	0.067	0.097	0.455	0.661
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.05	0.054	0.074	0.455	0.624
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.05	0.049	0.071	0.354	0.514
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.02	0.096	0.132	0.733	1.005
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.02	0.001	0.001	0.001	0.001
68	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(3)	4	15	6025	14.95	15.50	1.135	95.24	1.050	0.06	0.121	0.144	0.949	1.131
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(4)	4	15	6025	14.67	15.50	1.211	95.24	1.050	0.06	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(3)	4	47	6185	14.90	15.50	1.148	95.24	1.050	0.03	0.080	0.096	0.597	0.720
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(4)	4	47	6185	14.42	15.50	1.282	95.24	1.050	0.03	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(3)	4	111	6505	14.69	15.00	1.074	95.24	1.050	0.01	0.114	0.129	0.872	0.983
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(4)	4	111	6505	14.42	15.00	1.143	95.24	1.050	0.01	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(3)	4	207	6985	14.96	15.50	1.132	95.24	1.050	0.15	0.119	0.141	0.895	1.064
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(4)	4	207	6985	14.26	15.50	1.330	95.24	1.050	0.15	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Right Edge	10mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.01	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Right Edge	10mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.01	0.036	0.052	0.287	0.417
	WLAN6GHz	802.11ax-HE160 MCS0	Top Edge	10mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	-0.09	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Top Edge	10mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	-0.09	0.038	0.055	0.227	0.330

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	Ant 3	2	39	2441	16.93	17.00	1.016	77.07	1.081	0.02	0.137	0.151
	Bluetooth	1Mbps	Back	10mm	Ant 3	2	39	2441	16.93	17.00	1.016	77.07	1.081	-0.02	0.191	0.210
	Bluetooth	1Mbps	Left Edge	10mm	Ant 3	2	39	2441	16.93	17.00	1.016	77.07	1.081	-0.01	0.232	0.255
	Bluetooth	1Mbps	Right Edge	10mm	Ant 3	2	39	2441	16.93	17.00	1.016	77.07	1.081	-0.02	0.013	0.014
	Bluetooth	1Mbps	Top Edge	10mm	Ant 3	2	39	2441	16.93	17.00	1.016	77.07	1.081	-0.02	0.038	0.042
	Bluetooth	1Mbps	Front	10mm	Ant 4	2	78	2480	19.67	20.00	1.079	76.93	1.083	0.04	0.171	0.200
	Bluetooth	1Mbps	Back	10mm	Ant 4	2	78	2480	19.67	20.00	1.079	76.93	1.083	0	0.166	0.194
	Bluetooth	1Mbps	Left Edge	10mm	Ant 4	2	78	2480	19.67	20.00	1.079	76.93	1.083	0.01	0.007	0.008
69	Bluetooth	1Mbps	Right Edge	10mm	Ant 4	2	78	2480	19.67	20.00	1.079	76.93	1.083	-0.18	0.252	0.294
	Bluetooth	1Mbps	Top Edge	10mm	Ant 4	2	78	2480	19.67	20.00	1.079	76.93	1.083	-0.08	0.041	0.048
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(3)	2	0	2402	16.98	17.00	1.005	76.96	1.082	-0.15	0.088	0.096
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(4)	2	0	2402	16.41	17.00	1.146	76.96	1.082	-0.15	0.075	0.093
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(3)	2	0	2402	16.98	17.00	1.005	76.96	1.082	-0.1	0.136	0.148
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(4)	2	0	2402	16.41	17.00	1.146	76.96	1.082	-0.1	0.095	0.118
	Bluetooth	1Mbps	Left Edge	10mm	Ant 3+4(3)	2	0	2402	16.98	17.00	1.005	76.96	1.082	-0.09	0.203	0.221
	Bluetooth	1Mbps	Left Edge	10mm	Ant 3+4(4)	2	0	2402	16.41	17.00	1.146	76.96	1.082	-0.09	0.001	0.001
	Bluetooth	1Mbps	Right Edge	10mm	Ant 3+4(3)	2	0	2402	16.98	17.00	1.005	76.96	1.082	-0.16	0.001	0.001
	Bluetooth	1Mbps	Right Edge	10mm	Ant 3+4(4)	2	0	2402	16.41	17.00	1.146	76.96	1.082	-0.16	0.103	0.128
	Bluetooth	1Mbps	Top Edge	10mm	Ant 3+4(3)	2	0	2402	16.98	17.00	1.005	76.96	1.082	-0.16	0.053	0.058
	Bluetooth	1Mbps	Top Edge	10mm	Ant 3+4(4)	2	0	2402	16.41	17.00	1.146	76.96	1.082	-0.16	0.034	0.042

<Thread SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Thread	250K	Front	10mm	Ant 3	2	25	2475	14.88	16.00	1.294	89.95	1.001	-0.16	0.109	0.141
	Thread	250K	Back	10mm	Ant 3	2	25	2475	14.88	16.00	1.294	89.95	1.001	-0.01	0.144	0.187
70	Thread	250K	Left Edge	10mm	Ant 3	2	25	2475	14.88	16.00	1.294	89.95	1.001	-0.08	0.187	0.242
	Thread	250K	Right Edge	10mm	Ant 3	2	25	2475	14.88	16.00	1.294	89.95	1.001	0.01	0.001	0.001
	Thread	250K	Top Edge	10mm	Ant 3	2	25	2475	14.88	16.00	1.294	89.95	1.001	0.13	0.035	0.045

14.3 Body Worn Accessory SAR
<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	5	251	848.8	27.23	29.10	1.538	0.01	0.398	0.612
71	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	5	251	848.8	27.23	29.10	1.538	0.03	0.617	0.949
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	5	128	824.2	27.20	29.10	1.549	-0.06	0.576	0.892
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	5	189	836.4	27.22	29.10	1.542	-0.14	0.560	0.863
	GSM850_Ant 0	GPRS (4 Tx slots)	Front	10mm	6	251	848.8	27.23	28.40	1.309	0.01	0.398	0.521
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	6	251	848.8	27.23	28.40	1.309	0.03	0.617	0.808
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	6	128	824.2	27.20	28.40	1.318	-0.06	0.576	0.759
	GSM850_Ant 0	GPRS (4 Tx slots)	Back	10mm	6	189	836.4	27.22	28.40	1.312	-0.14	0.560	0.735
	GSM850_Ant 1	GPRS (4 Tx slots)	Front	10mm	5/6	189	836.4	28.55	30.10	1.429	-0.01	0.436	0.623
	GSM850_Ant 1	GPRS (4 Tx slots)	Back	10mm	5/6	189	836.4	28.55	30.10	1.429	-0.14	0.448	0.640
	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	5	661	1880	23.75	25.30	1.429	0.02	0.328	0.469
	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	5	661	1880	23.75	25.30	1.429	0.03	0.340	0.486
	GSM1900_Ant 2	GPRS (4 Tx slots)	Front	10mm	6	661	1880	23.75	24.60	1.216	0.02	0.328	0.399
	GSM1900_Ant 2	GPRS (4 Tx slots)	Back	10mm	6	661	1880	23.75	24.60	1.216	0.03	0.340	0.414
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	5	661	1880	21.50	22.20	1.175	-0.17	0.497	0.584
72	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	5	661	1880	21.50	22.20	1.175	0.03	0.667	0.784
	GSM1900_Ant 0	GPRS (4 Tx slots)	Front	10mm	6	661	1880	21.50	21.50	1.000	-0.17	0.497	0.497
	GSM1900_Ant 0	GPRS (4 Tx slots)	Back	10mm	6	661	1880	21.50	21.50	1.000	0.03	0.667	0.667

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Ant 2	RMC 12.2Kbps	Front	10mm	5	9400	1880	21.96	22.70	1.186	-0.12	0.450	0.534
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	5	9400	1880	21.96	22.70	1.186	0.09	0.457	0.542
	WCDMA II_Ant 2	RMC 12.2Kbps	Front	10mm	6	9400	1880	21.96	22.00	1.009	-0.12	0.450	0.454
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	6	9400	1880	21.96	22.00	1.009	0.09	0.457	0.461
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	5	9400	1880	19.74	20.60	1.219	-0.06	0.623	0.759
73	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	5	9400	1880	19.74	20.60	1.219	-0.1	0.791	0.964
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	5	9262	1852.4	19.73	20.60	1.222	0.14	0.703	0.859
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	5	9538	1907.6	19.64	20.60	1.247	0.11	0.757	0.944
	WCDMA II_Ant 0	RMC 12.2Kbps	Front	10mm	6	9400	1880	19.74	19.90	1.038	-0.06	0.623	0.646
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	6	9400	1880	19.74	19.90	1.038	-0.1	0.791	0.821
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	6	9262	1852.4	19.73	19.90	1.040	0.14	0.703	0.731
	WCDMA II_Ant 0	RMC 12.2Kbps	Back	10mm	6	9538	1907.6	19.64	19.90	1.062	0.11	0.757	0.804
	WCDMA IV_Ant 2	RMC 12.2Kbps	Front	10mm	5	1413	1732.6	21.12	22.70	1.439	-0.15	0.327	0.470
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	5	1413	1732.6	21.12	22.70	1.439	-0.01	0.347	0.499
	WCDMA IV_Ant 2	RMC 12.2Kbps	Front	10mm	6	1413	1732.6	21.12	22.00	1.225	-0.15	0.327	0.400
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	6	1413	1732.6	21.12	22.00	1.225	-0.01	0.347	0.425
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	5	1413	1732.6	19.82	20.90	1.282	-0.1	0.547	0.701
74	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	5	1413	1732.6	19.82	20.90	1.282	-0.15	0.754	0.967
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	5	1312	1712.4	19.81	20.90	1.285	0.01	0.718	0.923
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	5	1513	1752.6	19.65	20.90	1.334	0.1	0.648	0.864
	WCDMA IV_Ant 0	RMC 12.2Kbps	Front	10mm	6	1413	1732.6	19.82	20.20	1.091	-0.1	0.547	0.597
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	6	1413	1732.6	19.82	20.20	1.091	-0.15	0.754	0.823
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	6	1312	1712.4	19.81	20.20	1.094	0.01	0.718	0.785
	WCDMA IV_Ant 0	RMC 12.2Kbps	Back	10mm	6	1513	1752.6	19.65	20.20	1.135	0.1	0.648	0.735
	WCDMA V_Ant 0	RMC 12.2Kbps	Front	10mm	5/6	4182	836.4	24.58	25.50	1.236	-0.01	0.385	0.476
75	WCDMA V_Ant 0	RMC 12.2Kbps	Back	10mm	5/6	4182	836.4	24.58	25.50	1.236	-0.03	0.587	0.726
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	10mm	5/6	4182	836.4	24.24	25.10	1.219	0.01	0.329	0.401
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	5/6	4182	836.4	24.24	25.10	1.219	-0.04	0.402	0.490



<LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	5	21100	2535	19.50	20.60	1.288			0.03	0.266	0.343
	LTE Band 7_Ant 2	20M	QPSK	50	0	Front	10mm	5	21100	2535	19.51	20.60	1.285			-0.12	0.310	0.398
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	5	21100	2535	19.50	20.60	1.288			-0.09	0.330	0.425
	LTE Band 7_Ant 2	20M	QPSK	50	0	Back	10mm	5	21100	2535	19.51	20.60	1.285			-0.08	0.324	0.416
	CA_7C_Ant 2	20M	QPSK	1	0	Back	10mm	5	21350	2560	19.88	20.60	1.180			0.01	0.349	0.412
	LTE Band 7_Ant 2	20M	QPSK	1	0	Front	10mm	6	21100	2535	19.50	19.90	1.096			0.03	0.266	0.292
	LTE Band 7_Ant 2	20M	QPSK	50	0	Front	10mm	6	21100	2535	19.51	19.90	1.094			-0.12	0.310	0.339
	LTE Band 7_Ant 2	20M	QPSK	1	0	Back	10mm	6	21100	2535	19.50	19.90	1.096			-0.09	0.330	0.362
	LTE Band 7_Ant 2	20M	QPSK	50	0	Back	10mm	6	21100	2535	19.51	19.90	1.094			-0.08	0.324	0.354
	CA_7C_Ant 2	20M	QPSK	1	0	Back	10mm	6	21350	2560	19.88	19.90	1.005			0.01	0.349	0.351
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	5	21100	2535	19.62	21.10	1.406			-0.06	0.535	0.752
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	5	21100	2535	19.69	21.10	1.384			0.01	0.461	0.638
76	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	5	21100	2535	19.62	21.10	1.406			0.03	0.671	0.943
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	5	20850	2510	19.61	21.10	1.409			0.03	0.667	0.940
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	5	21350	2560	19.61	21.10	1.409			-0.08	0.666	0.939
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	5	21100	2535	19.69	21.10	1.384			-0.08	0.656	0.908
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	5	20850	2510	19.66	21.10	1.393			0.1	0.673	0.938
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	5	21350	2560	19.68	21.10	1.387			-0.18	0.657	0.911
	LTE Band 7_Ant 0	20M	QPSK	100	0	Back	10mm	5	21100	2535	19.71	21.10	1.377			0.1	0.654	0.901
	CA_7C_Ant 0	20M	QPSK	1	99	Back	10mm	5	20850	2510	19.91	21.10	1.315			-0.15	0.702	0.923
	CA_7C_Ant 0	20M	QPSK	1	0	Back	10mm	5	21100	2535	19.89	21.10	1.321			0.09	0.662	0.875
	CA_7C_Ant 0	20M	QPSK	1	0	Back	10mm	5	21350	2560	19.88	21.10	1.324			0.01	0.680	0.901
	LTE Band 7_Ant 0	20M	QPSK	1	0	Front	10mm	6	21100	2535	19.62	20.40	1.197			-0.06	0.535	0.640
	LTE Band 7_Ant 0	20M	QPSK	50	0	Front	10mm	6	21100	2535	19.69	20.40	1.178			0.01	0.461	0.543
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	6	21100	2535	19.62	20.40	1.197			0.03	0.671	0.803
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	6	20850	2510	19.61	20.40	1.199			0.03	0.667	0.800
	LTE Band 7_Ant 0	20M	QPSK	1	0	Back	10mm	6	21350	2560	19.61	20.40	1.199			-0.08	0.666	0.799
	LTE Band 7_Ant 0	20M	QPSK	50	0	Back	10mm	6	21100	2535	19.69	20.40	1.178			-0.08	0.656	0.773
	LTE Band 7_Ant 0	20M	QPSK	100	0	Back	10mm	6	21100	2535	19.71	20.40	1.172			0.1	0.654	0.767
	CA_7C_Ant 0	20M	QPSK	1	99	Back	10mm	6	20850	2510	19.91	20.40	1.119			-0.15	0.702	0.786
77	LTE Band 12_Ant 0	10M	QPSK	1	0	Front	10mm	5/6	23095	707.5	24.69	25.10	1.099			-0.01	0.366	0.402
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	5/6	23095	707.5	22.43	22.80	1.089			0.04	0.216	0.235
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	5/6	23095	707.5	24.69	25.10	1.099			0	0.348	0.382
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	5/6	23095	707.5	22.43	22.80	1.089			0.12	0.208	0.226
	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	5/6	23095	707.5	24.37	24.70	1.079			-0.15	0.306	0.330
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	10mm	5/6	23095	707.5	22.15	22.40	1.059			0.08	0.198	0.210
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	5/6	23095	707.5	24.37	24.70	1.079			-0.05	0.325	0.351
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	10mm	5/6	23095	707.5	22.15	22.40	1.059			0.01	0.191	0.202
	LTE Band 13_Ant 0	10M	QPSK	1	0	Front	10mm	5/6	23230	782	24.59	25.10	1.125			-0.03	0.332	0.373
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	5/6	23230	782	22.32	22.80	1.117			0.01	0.194	0.217
78	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	5/6	23230	782	24.59	25.10	1.125			-0.01	0.508	0.571
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	5/6	23230	782	22.32	22.80	1.117			0.1	0.304	0.340
	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	10mm	5/6	23230	782	24.35	24.70	1.084			-0.04	0.406	0.440
	LTE Band 13_Ant 1	10M	QPSK	25	0	Front	10mm	5/6	23230	782	22.07	22.40	1.079			0.08	0.246	0.265
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	5/6	23230	782	24.35	24.70	1.084			-0.02	0.475	0.515
	LTE Band 13_Ant 1	10M	QPSK	25	0	Back	10mm	5/6	23230	782	22.07	22.40	1.079			0.01	0.272	0.293
	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	5/6	23330	793	24.48	25.10	1.153			0	0.306	0.353
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	5/6	23330	793	23.48	24.10	1.153			0.02	0.244	0.281
79	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	5/6	23330	793	24.48	25.10	1.153			0.01	0.534	0.616
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	5/6	23330	793	23.48	24.10	1.153			0.03	0.428	0.494



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	LTE Band 14_Ant 1	10M	QPSK	1	0	Front	10mm	5/6	23330	793	24.17	24.70	1.130			0	0.411	0.464
	LTE Band 14_Ant 1	10M	QPSK	25	0	Front	10mm	5/6	23330	793	23.21	23.70	1.119			-0.03	0.329	0.368
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	5/6	23330	793	24.17	24.70	1.130			0	0.460	0.520
	LTE Band 14_Ant 1	10M	QPSK	25	0	Back	10mm	5/6	23330	793	23.21	23.70	1.119			0.14	0.367	0.411
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	5	26340	1880	20.29	22.00	1.483			0.01	0.306	0.454
	LTE Band 25_Ant 2	20M	QPSK	50	0	Front	10mm	5	26340	1880	20.28	22.00	1.486			-0.05	0.316	0.470
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	5	26340	1880	20.29	22.00	1.483			-0.03	0.288	0.427
	LTE Band 25_Ant 2	20M	QPSK	50	0	Back	10mm	5	26340	1880	20.28	22.00	1.486			-0.05	0.301	0.447
	LTE Band 25_Ant 2	20M	QPSK	1	0	Front	10mm	6	26340	1880	20.29	21.30	1.262			0.01	0.306	0.386
	LTE Band 25_Ant 2	20M	QPSK	50	0	Front	10mm	6	26340	1880	20.28	21.30	1.265			-0.05	0.316	0.400
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	6	26340	1880	20.29	21.30	1.262			-0.03	0.288	0.363
	LTE Band 25_Ant 2	20M	QPSK	50	0	Back	10mm	6	26340	1880	20.28	21.30	1.265			-0.05	0.301	0.381
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	5	26340	1880	18.33	20.20	1.538			0.08	0.485	0.746
	LTE Band 25_Ant 0	20M	QPSK	50	0	Front	10mm	5	26340	1880	18.32	20.20	1.542			0.14	0.487	0.751
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	5	26340	1880	18.33	20.20	1.538			-0.17	0.609	0.937
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	5	26140	1860	18.32	20.20	1.542			-0.05	0.599	0.923
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	5	26590	1905	18.25	20.20	1.567			0.18	0.595	0.932
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	5	26340	1880	18.32	20.20	1.542			-0.14	0.610	0.940
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	5	26140	1860	18.29	20.20	1.552			0.14	0.583	0.905
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	5	26590	1905	18.24	20.20	1.570			-0.17	0.576	0.905
	LTE Band 25_Ant 0	20M	QPSK	100	0	Back	10mm	5	26140	1860	18.29	20.20	1.552			0.17	0.575	0.893
	LTE Band 25_Ant 0	20M	QPSK	1	0	Front	10mm	6	26340	1880	18.29	19.50	1.321			0.08	0.485	0.641
	LTE Band 25_Ant 0	20M	QPSK	50	0	Front	10mm	6	26340	1880	18.24	19.50	1.337			0.14	0.487	0.651
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	6	26340	1880	18.29	19.50	1.321			-0.17	0.609	0.805
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	6	26140	1860	18.31	19.50	1.315			-0.05	0.599	0.788
	LTE Band 25_Ant 0	20M	QPSK	1	0	Back	10mm	6	26590	1905	18.29	19.50	1.321			0.18	0.595	0.786
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	6	26340	1880	18.24	19.50	1.337			-0.14	0.610	0.815
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	6	26140	1860	18.26	19.50	1.330			0.14	0.583	0.776
	LTE Band 25_Ant 0	20M	QPSK	50	0	Back	10mm	6	26590	1905	18.30	19.50	1.318			-0.17	0.576	0.759
	LTE Band 25_Ant 0	20M	QPSK	100	0	Back	10mm	6	26140	1860	18.24	19.50	1.337			0.17	0.575	0.769
	LTE Band 25_Ant 1	20M	QPSK	1	0	Front	10mm	5	26340	1880	21.72	22.70	1.253			0.02	0.423	0.530
	LTE Band 25_Ant 1	20M	QPSK	50	0	Front	10mm	5	26340	1880	21.70	22.70	1.259			0.1	0.394	0.496
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	5	26340	1880	21.72	22.70	1.253			-0.18	0.754	0.945
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	5	26140	1860	21.71	22.70	1.256			0.1	0.750	0.942
80	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	5	26590	1905	21.60	22.70	1.288			-0.11	0.768	0.989
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	5	26340	1880	21.70	22.70	1.259			0.12	0.731	0.920
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	5	26140	1860	21.69	22.70	1.262			0.08	0.611	0.771
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	5	26590	1905	21.59	22.70	1.291			-0.17	0.704	0.909
	LTE Band 25_Ant 1	20M	QPSK	100	0	Back	10mm	5	26340	1880	21.69	22.70	1.262			-0.03	0.682	0.861
	LTE Band 25_Ant 1	20M	QPSK	1	0	Front	10mm	6	26340	1880	21.72	22.00	1.067			0.02	0.423	0.451
	LTE Band 25_Ant 1	20M	QPSK	50	0	Front	10mm	6	26340	1880	21.70	22.00	1.072			0.1	0.394	0.422
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	6	26340	1880	21.72	22.00	1.067			-0.18	0.754	0.804
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	6	26140	1860	21.71	22.00	1.069			0.1	0.750	0.802
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	10mm	6	26590	1905	21.60	22.00	1.096			-0.11	0.768	0.842
	LTE Band 25_Ant 1	20M	QPSK	50	0	Back	10mm	6	26340	1880	21.70	22.00	1.072			0.12	0.731	0.783
	LTE Band 25_Ant 1	20M	QPSK	100	0	Back	10mm	6	26340	1880	21.69	22.00	1.074			-0.03	0.682	0.732
	LTE Band 25_Ant 5	20M	QPSK	1	0	Front	10mm	5	26340	1880	22.55	23.8	1.334			0.04	0.363	0.484
	LTE Band 25_Ant 5	20M	QPSK	50	0	Front	10mm	5	26340	1880	22.55	23.6	1.274			-0.01	0.387	0.493
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	10mm	5	26340	1880	22.55	23.8	1.334			-0.03	0.429	0.572
	LTE Band 25_Ant 5	20M	QPSK	50	0	Back	10mm	5	26340	1880	22.55	23.6	1.274			-0.08	0.428	0.545
	LTE Band 25_Ant 5	20M	QPSK	1	0	Front	10mm	6	26340	1880	22.55	23.1	1.135			0.04	0.363	0.412
	LTE Band 25_Ant 5	20M	QPSK	50	0	Front	10mm	6	26340	1880	22.55	23.1	1.135			-0.01	0.387	0.439
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	10mm	6	26340	1880	22.55	23.1	1.135			-0.03	0.429	0.487
	LTE Band 25_Ant 5	20M	QPSK	50	0	Back	10mm	6	26340	1880	22.55	23.1	1.135			-0.08	0.428	0.486
	LTE Band 26_Ant 0	15M	QPSK	1	0	Front	10mm	5/6	26865	831.5	24.35	25.10	1.189			-0.04	0.336	0.399



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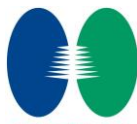
81	LTE Band 26_Ant 0	15M	QPSK	36	0	Front	10mm	5/6	26865	831.5	23.36	24.10	1.186			0.02	0.277	0.328
	LTE Band 26_Ant 0	15M	QPSK	1	0	Back	10mm	5/6	26865	831.5	24.35	25.10	1.189			-0.02	0.570	0.677
	LTE Band 26_Ant 0	15M	QPSK	36	0	Back	10mm	5/6	26865	831.5	23.36	24.10	1.186			-0.05	0.467	0.554
	CA_5B_Ant 0	10M	QPSK	1	0	Back	10mm	5/6	20574	841.4	22.92	24.50	1.439			0.06	0.401	0.577
	LTE Band 26_Ant 1	15M	QPSK	1	0	Front	10mm	5/6	26865	831.5	23.93	24.70	1.194			0	0.252	0.301
	LTE Band 26_Ant 1	15M	QPSK	36	0	Front	10mm	5/6	26865	831.5	22.93	23.70	1.194			0.08	0.213	0.254
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	5/6	26865	831.5	23.93	24.70	1.194			-0.04	0.349	0.417
	LTE Band 26_Ant 1	15M	QPSK	36	0	Back	10mm	5/6	26865	831.5	22.93	23.70	1.194			0.01	0.254	0.303
	CA_5B_Ant 1	10M	QPSK	1	0	Back	10mm	5/6	20574	841.4	22.86	24.50	1.459			0.01	0.248	0.362
	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	5	27710	2310	20.27	21.20	1.239			0.05	0.377	0.467
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	5	27710	2310	20.29	21.20	1.233			-0.13	0.391	0.482
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	5	27710	2310	20.27	21.20	1.239			0.03	0.392	0.486
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	5	27710	2310	20.29	21.20	1.233			0.03	0.380	0.469
	LTE Band 30_Ant 2	10M	QPSK	1	0	Front	10mm	6	27710	2310	20.27	20.50	1.054			0.05	0.377	0.398
	LTE Band 30_Ant 2	10M	QPSK	25	0	Front	10mm	6	27710	2310	20.29	20.50	1.050			-0.13	0.391	0.410
	LTE Band 30_Ant 2	10M	QPSK	1	0	Back	10mm	6	27710	2310	20.27	20.50	1.054			0.03	0.392	0.413
	LTE Band 30_Ant 2	10M	QPSK	25	0	Back	10mm	6	27710	2310	20.29	20.50	1.050			0.03	0.380	0.399
	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	5	27710	2310	20.10	21.10	1.259			-0.12	0.447	0.563
	LTE Band 30_Ant 0	10M	QPSK	25	0	Front	10mm	5	27710	2310	20.11	21.10	1.256			0.01	0.442	0.555
	LTE Band 30_Ant 0	10M	QPSK	1	0	Back	10mm	5	27710	2310	20.10	21.10	1.259			0	0.703	0.885
	LTE Band 30_Ant 0	10M	QPSK	25	0	Back	10mm	5	27710	2310	20.11	21.10	1.256			0.03	0.688	0.864
	LTE Band 30_Ant 0	10M	QPSK	50	0	Back	10mm	5	27710	2310	20.10	21.10	1.259			-0.08	0.702	0.884
	LTE Band 30_Ant 0	10M	QPSK	1	0	Front	10mm	6	27710	2310	20.10	20.40	1.072			-0.12	0.447	0.479
	LTE Band 30_Ant 0	10M	QPSK	25	0	Front	10mm	6	27710	2310	20.11	20.40	1.069			0.01	0.442	0.473
	LTE Band 30_Ant 0	10M	QPSK	1	0	Back	10mm	6	27710	2310	20.10	20.40	1.072			0	0.703	0.753
	LTE Band 30_Ant 0	10M	QPSK	25	0	Back	10mm	6	27710	2310	20.11	20.40	1.069			0.03	0.688	0.736
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	5	40620	2593	24.14	24.20	1.014	62.9	1.006	-0.02	0.535	0.546
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	5	40620	2593	23.04	24.00	1.247	62.9	1.006	-0.16	0.400	0.502
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	5	40620	2593	24.14	24.20	1.014	62.9	1.006	-0.02	0.589	0.601
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	5	39750	2506	24.12	24.20	1.019	62.9	1.006	0.07	0.518	0.531
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	5	40185	2549.5	24.00	24.20	1.047	62.9	1.006	-0.02	0.524	0.552
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	5	41055	2636.5	23.98	24.20	1.052	62.9	1.006	-0.05	0.552	0.584
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	5	41490	2680	24.13	24.20	1.016	62.9	1.006	-0.13	0.521	0.533
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	5	40620	2593	23.04	24.00	1.247	62.9	1.006	0.08	0.400	0.502
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Back	10mm	5	40620	2593	24.91	25.80	1.227	42.9	1.009	0	0.454	0.562
	CA_41C_Ant 2	20M	QPSK	1	0	Back	10mm	5	41490	2680	22.93	24.20	1.340	62.9	1.006	-0.18	0.433	0.584
	LTE Band 41_Ant 2	20M	QPSK	1	0	Front	10mm	6	40620	2593	23.20	23.50	1.072	62.9	1.006	0.08	0.424	0.457
	LTE Band 41_Ant 2	20M	QPSK	50	0	Front	10mm	6	40620	2593	22.95	23.50	1.135	62.9	1.006	0.01	0.408	0.466
	LTE Band 41_Ant 2	20M	QPSK	1	0	Back	10mm	6	40620	2593	23.20	23.50	1.072	62.9	1.006	-0.06	0.468	0.504
	LTE Band 41_Ant 2	20M	QPSK	50	0	Back	10mm	6	40620	2593	22.95	23.50	1.135	62.9	1.006	0.12	0.387	0.442
	LTE Band 41_HPUE_Ant 2	20M	QPSK	1	0	Back	10mm	6	40620	2593	24.91	25.10	1.045	42.9	1.009	0	0.454	0.479
	CA_41C_Ant 2	20M	QPSK	1	0	Back	10mm	6	41490	2680	22.93	23.50	1.140	62.9	1.006	-0.18	0.433	0.497
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	5	40620	2593	22.19	23.80	1.449	62.9	1.006	-0.03	0.483	0.704
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	5	39750	2506	22.18	23.80	1.452	62.9	1.006	0	0.479	0.700
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	5	40185	2549.5	22.11	23.80	1.476	62.9	1.006	-0.03	0.491	0.729
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	5	41055	2636.5	22.16	23.80	1.459	62.9	1.006	0.01	0.364	0.534
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	5	41490	2680	22.18	23.80	1.452	62.9	1.006	-0.01	0.363	0.530
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	5	40620	2593	22.15	23.60	1.396	62.9	1.006	-0.06	0.469	0.659
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	5	39750	2506	22.14	23.60	1.400	62.9	1.006	-0.09	0.498	0.701
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	5	40185	2549.5	22.08	23.60	1.419	62.9	1.006	-0.17	0.490	0.700
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	5	41055	2636.5	22.10	23.60	1.413	62.9	1.006	-0.1	0.363	0.516
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	5	41490	2680	22.12	23.60	1.406	62.9	1.006	0.18	0.362	0.512
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	40620	2593	22.19	23.80	1.449	62.9	1.006	-0.04	0.627	0.914
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	39750	2506	22.18	23.80	1.452	62.9	1.006	0	0.656	0.958
83	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	40185	2549.5	22.11	23.80	1.476	62.9	1.006	-0.03	0.654	0.971
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	41055	2636.5	22.16	23.80	1.459	62.9	1.006	-0.13	0.484	0.710



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	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	5	41490	2680	22.18	23.80	1.452	62.9	1.006	-0.01	0.483	0.706
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	5	40620	2593	22.15	23.60	1.396	62.9	1.006	-0.09	0.622	0.874
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	5	39750	2506	22.14	23.60	1.400	62.9	1.006	0.02	0.650	0.915
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	5	40185	2549.5	22.08	23.60	1.419	62.9	1.006	-0.13	0.639	0.912
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	5	41055	2636.5	22.10	23.60	1.413	62.9	1.006	0.17	0.480	0.682
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	5	41490	2680	22.12	23.60	1.406	62.9	1.006	0.06	0.479	0.678
	LTE Band 41_Ant 0	20M	QPSK	100	0	Back	10mm	5	40620	2593	22.12	23.60	1.406	62.9	1.006	0	0.551	0.779
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	40620	2593	23.71	25.40	1.476	42.9	1.009	-0.04	0.635	0.946
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	40620	2593	23.71	25.40	1.476	42.9	1.009	-0.15	0.637	0.948
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	39750	2506	23.69	25.40	1.483	42.9	1.009	-0.02	0.639	0.956
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	40185	2549.5	23.70	25.40	1.479	42.9	1.009	0.1	0.518	0.773
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	41055	2636.5	23.66	25.40	1.493	42.9	1.009	0.04	0.517	0.779
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	5	41490	2680	23.70	25.40	1.479	42.9	1.009	0.13	0.510	0.761
	CA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	5	41490	2680	22.23	23.80	1.435	62.9	1.006	0.17	0.558	0.806
	CA_41C_Ant 0	20M	QPSK	1	99	Back	10mm	5	39750	2506	22.08	23.80	1.486	62.9	1.006	0.01	0.589	0.880
	CA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	5	40185	2549.5	22.08	23.80	1.486	62.9	1.006	0.1	0.640	0.957
	CA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	5	40620	2593	22.21	23.80	1.442	62.9	1.006	-0.17	0.587	0.852
	CA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	5	41055	2636.5	22.13	23.80	1.469	62.9	1.006	0.04	0.561	0.829
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	6	40620	2593	22.19	23.10	1.233	62.9	1.006	-0.03	0.483	0.599
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	6	39750	2506	22.18	23.10	1.236	62.9	1.006	0	0.479	0.596
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	6	40185	2549.5	22.11	23.10	1.256	62.9	1.006	-0.03	0.491	0.620
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	6	41055	2636.5	22.16	23.10	1.242	62.9	1.006	0.01	0.364	0.455
	LTE Band 41_Ant 0	20M	QPSK	1	0	Front	10mm	6	41490	2680	22.18	23.10	1.236	62.9	1.006	-0.01	0.363	0.451
	LTE Band 41_Ant 0	20M	QPSK	50	0	Front	10mm	6	40620	2593	22.15	23.10	1.245	62.9	1.006	-0.06	0.469	0.587
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	6	40620	2593	22.19	23.10	1.233	62.9	1.006	-0.04	0.627	0.778
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	6	39750	2506	22.18	23.10	1.236	62.9	1.006	0	0.656	0.816
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	6	40185	2549.5	22.11	23.10	1.256	62.9	1.006	-0.03	0.654	0.826
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	6	41055	2636.5	22.16	23.10	1.242	62.9	1.006	-0.13	0.484	0.605
	LTE Band 41_Ant 0	20M	QPSK	1	0	Back	10mm	6	41490	2680	22.18	23.10	1.236	62.9	1.006	-0.01	0.483	0.601
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	6	40620	2593	22.15	23.10	1.245	62.9	1.006	-0.09	0.622	0.779
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	6	39750	2506	22.14	23.10	1.247	62.9	1.006	0.02	0.650	0.816
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	6	40185	2549.5	22.08	23.10	1.265	62.9	1.006	-0.13	0.639	0.813
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	6	41055	2636.5	22.10	23.10	1.259	62.9	1.006	0.17	0.480	0.608
	LTE Band 41_Ant 0	20M	QPSK	50	0	Back	10mm	6	41490	2680	22.12	23.10	1.253	62.9	1.006	0.06	0.479	0.604
	LTE Band 41_Ant 0	20M	QPSK	100	0	Back	10mm	6	40620	2593	22.12	23.10	1.253	62.9	1.006	0	0.551	0.695
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	6	40620	2593	23.71	24.70	1.256	42.9	1.009	-0.04	0.635	0.805
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	6	40620	2593	23.71	24.70	1.256	42.9	1.009	-0.15	0.637	0.807
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	6	39750	2506	23.69	24.70	1.262	42.9	1.009	-0.02	0.639	0.814
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	6	40185	2549.5	23.70	24.70	1.259	42.9	1.009	0.1	0.518	0.658
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	6	41055	2636.5	23.66	24.70	1.271	42.9	1.009	0.04	0.517	0.663
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Back	10mm	6	41490	2680	23.70	24.70	1.259	42.9	1.009	0.13	0.510	0.648
	CA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	6	41490	2680	22.23	23.10	1.222	62.9	1.006	0.17	0.558	0.686
	CA_41C_Ant 0	20M	QPSK	1	99	Back	10mm	6	39750	2506	22.08	23.10	1.265	62.9	1.006	0.01	0.589	0.749
	CA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	6	40185	2549.5	22.08	23.10	1.265	62.9	1.006	0.1	0.640	0.814
	CA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	6	40620	2593	22.21	23.10	1.227	62.9	1.006	-0.17	0.587	0.725
	CA_41C_Ant 0	20M	QPSK	1	0	Back	10mm	6	41055	2636.5	22.13	23.10	1.250	62.9	1.006	0.04	0.561	0.706
	LTE Band 48_Ant 6	20M	QPSK	1	0	Front	10mm	5/6	55830	3609	20.00	20.90	1.230	62.9	1.006	-0.12	0.159	0.197
	LTE Band 48_Ant 6	20M	QPSK	50	0	Front	10mm	5/6	55830	3609	20.01	20.90	1.227	62.9	1.006	0.08	0.151	0.186
84	LTE Band 48_Ant 6	20M	QPSK	1	0	Back	10mm	5/6	55830	3609	20.00	20.90	1.230	62.9	1.006	-0.08	0.256	0.317
	LTE Band 48_Ant 6	20M	QPSK	50	0	Back	10mm	5/6	55830	3609	20.01	20.90	1.227	62.9	1.006	0.01	0.241	0.298
	LTE Band 48_Ant 7	20M	QPSK	1	0	Front	10mm	5/6	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.03	0.137	0.186
	LTE Band 48_Ant 7	20M	QPSK	50	0	Front	10mm	5/6	56150	3641	19.69	21.00	1.352	62.9	1.006	0	0.141	0.192
	LTE Band 48_Ant 7	20M	QPSK	1	0	Back	10mm	5/6	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.13	0.174	0.237
	LTE Band 48_Ant 7	20M	QPSK	50	0	Back	10mm	5/6	56150	3641	19.69	21.00	1.352	62.9	1.006	-0.14	0.178	0.242
	LTE Band 66_Ant 2	20M	QPSK	1	0	Front	10mm	5	132322	1745	21.20	22.40	1.318			0.04	0.362	0.477
	LTE Band 66_Ant 2	20M	QPSK	50	0	Front	10mm	5	132322	1745	21.20	22.40	1.318			-0.03	0.380	0.501



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	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	5	132322	1745	21.20	22.40	1.318			0.1	0.319	0.421
	LTE Band 66_Ant 2	20M	QPSK	50	0	Back	10mm	5	132322	1745	21.20	22.40	1.318			0.03	0.290	0.382
	CA_66C_Ant 2	20M	QPSK	1	99	Front	10mm	5	132072	1720	21.33	22.40	1.279			0.07	0.369	0.472
	CA_66B_Ant 2	15M	QPSK	1	0	Front	10mm	5	132322	1745	21.31	22.40	1.285			-0.18	0.357	0.459
	LTE Band 66_Ant 2	20M	QPSK	1	0	Front	10mm	6	132322	1745	21.20	21.70	1.122			0.04	0.362	0.406
	LTE Band 66_Ant 2	20M	QPSK	50	0	Front	10mm	6	132322	1745	21.20	21.70	1.122			-0.03	0.380	0.426
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	6	132322	1745	21.20	21.70	1.122			0.1	0.319	0.358
	LTE Band 66_Ant 2	20M	QPSK	50	0	Back	10mm	6	132322	1745	21.20	21.70	1.122			0.03	0.290	0.325
	CA_66C_Ant 2	20M	QPSK	1	99	Front	10mm	6	132072	1720	21.33	21.70	1.089			0.07	0.369	0.402
	CA_66B_Ant 2	15M	QPSK	1	0	Front	10mm	6	132322	1745	21.31	21.70	1.094			-0.18	0.357	0.391
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	5	132322	1745	19.10	20.30	1.318			-0.01	0.535	0.705
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	5	132322	1745	19.05	20.30	1.334			0.12	0.527	0.703
85	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	5	132322	1745	19.10	20.30	1.318			0.02	0.744	0.981
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	5	132072	1720	19.09	20.30	1.321			0.08	0.725	0.958
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	5	132572	1770	19.08	20.30	1.324			0.01	0.729	0.965
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	5	132322	1745	19.05	20.30	1.334			0.08	0.731	0.975
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	5	132072	1720	19.04	20.30	1.337			0.03	0.719	0.961
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	5	132572	1770	19.03	20.30	1.340			-0.08	0.716	0.959
	LTE Band 66_Ant 0	20M	QPSK	100	0	Back	10mm	5	132322	1745	19.02	20.30	1.343			0.03	0.701	0.941
	CA_66C_Ant 0	20M	QPSK	1	99	Back	10mm	5	132072	1720	19.16	20.30	1.300			0.08	0.720	0.936
	CA_66C_Ant 0	20M	QPSK	1	0	Back	10mm	5	132322	1745	19.12	20.30	1.312			0.01	0.722	0.947
	CA_66C_Ant 0	20M	QPSK	1	0	Back	10mm	5	132572	1770	19.12	20.30	1.312			0.03	0.714	0.937
	CA_66B_Ant 0	15M	QPSK	1	0	Back	10mm	5	132322	1745	19.23	20.30	1.279			-0.08	0.712	0.911
	CA_66B_Ant 0	15M	QPSK	1	74	Back	10mm	5	132047	1717.5	19.18	20.30	1.294			-0.08	0.711	0.920
	CA_66B_Ant 0	15M	QPSK	1	0	Back	10mm	5	132597	1772.5	19.11	20.30	1.315			0.10	0.721	0.948
	LTE Band 66_Ant 0	20M	QPSK	1	0	Front	10mm	6	132322	1745	19.10	19.60	1.122			-0.01	0.535	0.600
	LTE Band 66_Ant 0	20M	QPSK	50	0	Front	10mm	6	132322	1745	19.05	19.60	1.135			0.12	0.527	0.598
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	6	132322	1745	19.10	19.60	1.122			0.02	0.744	0.835
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	6	132072	1720	19.09	19.60	1.125			0.08	0.725	0.815
	LTE Band 66_Ant 0	20M	QPSK	1	0	Back	10mm	6	132572	1770	19.08	19.60	1.127			0.01	0.729	0.822
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	6	132322	1745	19.05	19.60	1.135			0.08	0.731	0.830
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	6	132072	1720	19.04	19.60	1.138			0.03	0.719	0.818
	LTE Band 66_Ant 0	20M	QPSK	50	0	Back	10mm	6	132572	1770	19.03	19.60	1.140			-0.08	0.716	0.816
	LTE Band 66_Ant 0	20M	QPSK	100	0	Back	10mm	6	132322	1745	19.02	19.60	1.143			0.03	0.701	0.801
	CA_66C_Ant 0	20M	QPSK	1	99	Back	10mm	6	132072	1720	19.16	19.60	1.107			0.08	0.720	0.797
	CA_66B_Ant 0	15M	QPSK	1	0	Back	10mm	6	132322	1745	19.23	19.60	1.089			-0.08	0.712	0.775
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	5	132322	1745	22.43	23.70	1.340			0.08	0.425	0.569
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	5	132322	1745	22.42	23.70	1.343			-0.02	0.362	0.486
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	5	132322	1745	22.43	23.70	1.340			0.03	0.579	0.776
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	5	132322	1745	22.42	23.70	1.343			-0.15	0.728	0.978
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	5	132072	1720	22.41	23.70	1.346			-0.17	0.687	0.925
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	5	132572	1770	22.35	23.70	1.365			0.17	0.699	0.954
	LTE Band 66_Ant 1	20M	QPSK	100	0	Back	10mm	5	132322	1745	22.41	23.70	1.346			0.11	0.689	0.927
	LTE Band 66_Ant 1	20M	QPSK	1	0	Front	10mm	6	132322	1745	22.43	23.00	1.140			0.08	0.342	0.390
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	10mm	6	132322	1745	22.42	23.00	1.143			0	0.385	0.440
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	6	132322	1745	22.43	23.00	1.140			0.03	0.579	0.660
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	6	132322	1745	22.42	23.00	1.143			-0.15	0.728	0.832
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	6	132072	1720	22.41	23.00	1.146			-0.17	0.687	0.787
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	10mm	6	132572	1770	22.35	23.00	1.161			0.17	0.699	0.812
	LTE Band 66_Ant 1	20M	QPSK	100	0	Back	10mm	6	132322	1745	22.41	23.00	1.146			0.11	0.689	0.789
	LTE Band 66_Ant 5	20M	QPSK	1	0	Front	10mm	5	132322	1745	22.65	23.6	1.245			0.08	0.487	0.606
	LTE Band 66_Ant 5	20M	QPSK	50	0	Front	10mm	5	132322	1745	22.61	23.6	1.256			0.01	0.505	0.634
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	5	132322	1745	22.65	23.6	1.245			0.03	0.558	0.694
	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	5	132322	1745	22.61	23.6	1.256			-0.1	0.563	0.707
	LTE Band 66_Ant 5	20M	QPSK	1	0	Front	10mm	6	132322	1745	22.65	22.9	1.059			0.08	0.487	0.516
	LTE Band 66_Ant 5	20M	QPSK	50	0	Front	10mm	6	132322	1745	22.61	22.9	1.069			0.01	0.505	0.540

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	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	6	132322	1745	22.65	22.9	1.059			0.03	0.558	0.591
	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	6	132322	1745	22.61	22.9	1.069			-0.1	0.563	0.602
	LTE Band 71_Ant 0	20M	QPSK	1	0	Front	10mm	5/6	133297	680.5	24.74	25.10	1.086			-0.03	0.242	0.263
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	5/6	133297	680.5	23.71	24.10	1.094			0.01	0.192	0.210
86	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	5/6	133297	680.5	24.74	25.10	1.086			0.01	0.355	0.386
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	5/6	133297	680.5	23.71	24.10	1.094			0.03	0.269	0.294
	LTE Band 71_Ant 1	20M	QPSK	1	0	Front	10mm	5/6	133297	680.5	24.30	24.70	1.096			-0.02	0.240	0.263
	LTE Band 71_Ant 1	20M	QPSK	50	0	Front	10mm	5/6	133297	680.5	23.27	23.70	1.104			0.08	0.206	0.227
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	5/6	133297	680.5	24.30	24.70	1.096			0	0.264	0.289
	LTE Band 71_Ant 1	20M	QPSK	50	0	Back	10mm	5/6	133297	680.5	23.27	23.70	1.104			0.01	0.228	0.252



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7_Ant 2	50M	BPSK	1	1	Front	10mm	5	507000	2535	19.13	20.90	1.503	0.08	0.183	0.275
	FR1 n7_Ant 2	50M	BPSK	135	68	Front	10mm	5	507000	2535	19.04	20.90	1.535	-0.16	0.242	0.371
	FR1 n7_Ant 2	50M	BPSK	1	1	Back	10mm	5	507000	2535	19.13	20.90	1.503	0.03	0.220	0.331
	FR1 n7_Ant 2	50M	BPSK	135	68	Back	10mm	5	507000	2535	19.04	20.90	1.535	-0.04	0.260	0.399
	FR1 n7_Ant 2	50M	BPSK	1	1	Front	10mm	6	507000	2535	19.13	20.20	1.279	0.08	0.183	0.234
	FR1 n7_Ant 2	50M	BPSK	135	68	Front	10mm	6	507000	2535	19.04	20.20	1.306	-0.16	0.242	0.316
	FR1 n7_Ant 2	50M	BPSK	1	1	Back	10mm	6	507000	2535	19.13	20.20	1.279	0.03	0.220	0.281
	FR1 n7_Ant 2	50M	BPSK	135	68	Back	10mm	6	507000	2535	19.04	20.20	1.306	-0.04	0.260	0.340
	FR1 n7_Ant 0	50M	BPSK	1	1	Front	10mm	5	507000	2535	19.77	20.90	1.297	-0.14	0.392	0.508
	FR1 n7_Ant 0	50M	BPSK	135	68	Front	10mm	5	507000	2535	19.64	20.90	1.337	0.12	0.359	0.480
87	FR1 n7_Ant 0	50M	BPSK	1	1	Back	10mm	5	507000	2535	19.77	20.90	1.297	-0.01	0.558	0.724
	FR1 n7_Ant 0	50M	BPSK	135	68	Back	10mm	5	507000	2535	19.64	20.90	1.337	0.08	0.483	0.646
	FR1 n7_Ant 0	50M	BPSK	1	1	Front	10mm	6	507000	2535	19.77	20.20	1.104	-0.14	0.392	0.433
	FR1 n7_Ant 0	50M	BPSK	135	68	Front	10mm	6	507000	2535	19.64	20.20	1.138	0.12	0.359	0.408
	FR1 n7_Ant 0	50M	BPSK	1	1	Back	10mm	6	507000	2535	19.77	20.20	1.104	-0.01	0.558	0.616
	FR1 n7_Ant 0	50M	BPSK	135	68	Back	10mm	6	507000	2535	19.64	20.20	1.138	0.08	0.483	0.549
	FR1 n12_Ant 0	15M	BPSK	1	1	Front	10mm	5/6	141500	707.5	24.72	25.10	1.091	-0.15	0.338	0.369
	FR1 n12_Ant 0	15M	BPSK	36	22	Front	10mm	5/6	141500	707.5	24.70	25.10	1.096	0	0.353	0.387
	FR1 n12_Ant 0	15M	BPSK	1	1	Back	10mm	5/6	141500	707.5	24.72	25.10	1.091	0.07	0.340	0.371
	FR1 n12_Ant 0	15M	BPSK	36	22	Back	10mm	5/6	141500	707.5	24.70	25.10	1.096	-0.01	0.358	0.393
	FR1 n12_Ant 1	15M	BPSK	1	1	Front	10mm	5/6	141500	707.5	24.48	24.70	1.052	0.08	0.278	0.292
	FR1 n12_Ant 1	15M	BPSK	36	22	Front	10mm	5/6	141500	707.5	24.42	24.70	1.067	-0.02	0.337	0.359
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	5/6	141500	707.5	24.48	24.70	1.052	0.01	0.375	0.394
88	FR1 n12_Ant 1	15M	BPSK	36	22	Back	10mm	5/6	141500	707.5	24.42	24.70	1.067	-0.03	0.396	0.422
	FR1 n14_Ant 0	10M	BPSK	1	1	Front	10mm	5/6	158600	793	24.55	25.10	1.135	-0.08	0.350	0.397
	FR1 n14_Ant 0	10M	BPSK	25	14	Front	10mm	5/6	158600	793	24.53	25.10	1.140	-0.05	0.360	0.410
89	FR1 n14_Ant 0	10M	BPSK	1	1	Back	10mm	5/6	158600	793	24.55	25.10	1.135	-0.02	0.502	0.570
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	10mm	5/6	158600	793	24.53	25.10	1.140	-0.08	0.499	0.569
	FR1 n14_Ant 1	10M	BPSK	1	1	Front	10mm	5/6	158600	793	24.20	24.70	1.122	0.02	0.422	0.473
	FR1 n14_Ant 1	10M	BPSK	25	14	Front	10mm	5/6	158600	793	24.17	24.70	1.130	0.05	0.417	0.471
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	5/6	158600	793	24.20	24.70	1.122	-0.01	0.475	0.533
	FR1 n14_Ant 1	10M	BPSK	25	14	Back	10mm	5/6	158600	793	24.17	24.70	1.130	0.08	0.468	0.529
	FR1 n25_Ant 2	40M	BPSK	1	1	Front	10mm	5	376500	1882.5	20.29	21.80	1.416	0.1	0.243	0.344
	FR1 n25_Ant 2	40M	BPSK	108	54	Front	10mm	5	376500	1882.5	20.33	21.80	1.403	-0.03	0.282	0.396
	FR1 n25_Ant 2	40M	BPSK	1	1	Back	10mm	5	376500	1882.5	20.29	21.80	1.416	-0.06	0.314	0.445
	FR1 n25_Ant 2	40M	BPSK	108	54	Back	10mm	5	376500	1882.5	20.33	21.80	1.403	0.1	0.310	0.435
	FR1 n25_Ant 2	40M	BPSK	1	1	Front	10mm	6	376500	1882.5	20.29	21.10	1.205	0.1	0.243	0.293
	FR1 n25_Ant 2	40M	BPSK	108	54	Front	10mm	6	376500	1882.5	20.33	21.10	1.194	-0.03	0.282	0.337
	FR1 n25_Ant 2	40M	BPSK	1	1	Back	10mm	6	376500	1882.5	20.29	21.10	1.205	-0.06	0.314	0.378
	FR1 n25_Ant 2	40M	BPSK	108	54	Back	10mm	6	376500	1882.5	20.33	21.10	1.194	0.1	0.310	0.370
	FR1 n25_Ant 0	40M	BPSK	1	1	Front	10mm	5	376500	1882.5	18.46	20.00	1.426	-0.07	0.528	0.753
	FR1 n25_Ant 0	40M	BPSK	108	54	Front	10mm	5	376500	1882.5	18.51	20.00	1.409	0.08	0.527	0.743
90	FR1 n25_Ant 0	40M	BPSK	1	1	Back	10mm	5	376500	1882.5	18.46	20.00	1.426	0.09	0.674	0.961
	FR1 n25_Ant 0	40M	BPSK	108	54	Back	10mm	5	376500	1882.5	18.51	20.00	1.409	0.01	0.668	0.941
	FR1 n25_Ant 0	40M	BPSK	216	0	Back	10mm	5	376500	1882.5	18.49	20.00	1.416	0.05	0.651	0.922
	FR1 n25_Ant 0	40M	BPSK	1	1	Front	10mm	6	376500	1882.5	18.46	19.30	1.213	-0.07	0.528	0.641
	FR1 n25_Ant 0	40M	BPSK	108	54	Front	10mm	6	376500	1882.5	18.51	19.30	1.199	0.08	0.527	0.632
	FR1 n25_Ant 0	40M	BPSK	1	1	Back	10mm	6	376500	1882.5	18.46	19.30	1.213	0.09	0.674	0.818
	FR1 n25_Ant 0	40M	BPSK	108	54	Back	10mm	6	376500	1882.5	18.51	19.30	1.199	0.01	0.668	0.801
	FR1 n25_Ant 0	40M	BPSK	216	0	Back	10mm	6	376500	1882.5	18.49	19.30	1.205	0.05	0.651	0.784
	FR1 n25_Ant 1	40M	BPSK	1	1	Front	10mm	5	376500	1882.5	20.88	22.30	1.387	0.1	0.241	0.334



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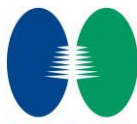
	FR1 n25_Ant 1	40M	BPSK	108	54	Front	10mm	5	376500	1882.5	20.94	22.30	1.368	-0.01	0.276	0.377
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	10mm	5	376500	1882.5	20.88	22.30	1.387	0.04	0.614	0.851
	FR1 n25_Ant 1	40M	BPSK	108	54	Back	10mm	5	376500	1882.5	20.94	22.30	1.368	-0.1	0.641	0.877
	FR1 n25_Ant 1	40M	BPSK	216	0	Back	10mm	5	376500	1882.5	20.90	22.30	1.380	0.04	0.598	0.825
	FR1 n25_Ant 1	40M	BPSK	1	1	Front	10mm	6	376500	1882.5	20.88	21.60	1.180	0.1	0.241	0.284
	FR1 n25_Ant 1	40M	BPSK	108	54	Front	10mm	6	376500	1882.5	20.94	21.60	1.164	-0.01	0.276	0.321
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	10mm	6	376500	1882.5	20.88	21.60	1.180	0.04	0.614	0.725
	FR1 n25_Ant 1	40M	BPSK	108	54	Back	10mm	6	376500	1882.5	20.94	21.60	1.164	-0.1	0.641	0.746
	FR1 n25_Ant 5	40M	BPSK	1	1	Front	10mm	5	376500	1882.5	21.49	23.3	1.517	0.02	0.311	0.472
	FR1 n25_Ant 5	40M	BPSK	108	54	Front	10mm	5	376500	1882.5	21.55	23.3	1.496	-0.17	0.301	0.450
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	10mm	5	376500	1882.5	21.49	23.3	1.517	0.06	0.367	0.557
	FR1 n25_Ant 5	40M	BPSK	108	54	Back	10mm	5	376500	1882.5	21.55	23.3	1.496	-0.03	0.359	0.537
	FR1 n25_Ant 5	40M	BPSK	1	1	Front	10mm	6	376500	1882.5	21.49	22.6	1.291	0.02	0.311	0.402
	FR1 n25_Ant 5	40M	BPSK	108	54	Front	10mm	6	376500	1882.5	21.55	22.6	1.274	-0.17	0.301	0.383
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	10mm	6	376500	1882.5	21.49	22.6	1.291	0.06	0.367	0.474
	FR1 n25_Ant 5	40M	BPSK	108	54	Back	10mm	6	376500	1882.5	21.55	22.6	1.274	-0.03	0.359	0.457
	FR1 n26_Ant 0	20M	QPSK	1	53	Front	10mm	5/6	166300	831.5	24.31	25.10	1.199	0.01	0.296	0.355
	FR1 n26_Ant 0	20M	QPSK	50	28	Front	10mm	5/6	166300	831.5	24.20	25.10	1.230	0.05	0.282	0.347
91	FR1 n26_Ant 0	20M	QPSK	1	53	Back	10mm	5/6	166300	831.5	24.31	25.10	1.199	-0.02	0.546	0.655
	FR1 n26_Ant 0	20M	QPSK	50	28	Back	10mm	5/6	166300	831.5	24.20	25.10	1.230	-0.01	0.525	0.646
	FR1 n26_Ant 1	20M	QPSK	1	1	Front	10mm	5/6	166300	831.5	24.06	24.70	1.159	-0.18	0.256	0.297
	FR1 n26_Ant 1	20M	QPSK	50	28	Front	10mm	5/6	166300	831.5	24.01	24.70	1.172	0.02	0.292	0.342
	FR1 n26_Ant 1	20M	QPSK	1	1	Back	10mm	5/6	166300	831.5	24.06	24.70	1.159	0.1	0.302	0.350
	FR1 n26_Ant 1	20M	QPSK	50	28	Back	10mm	5/6	166300	831.5	24.01	24.70	1.172	0.02	0.362	0.424
	FR1 n30_Ant 2	10M	BPSK	1	1	Front	10mm	5	462000	2310	19.89	21.20	1.352	-0.04	0.369	0.499
	FR1 n30_Ant 2	10M	BPSK	25	14	Front	10mm	5	462000	2310	19.94	21.20	1.337	0.08	0.307	0.410
	FR1 n30_Ant 2	10M	BPSK	1	1	Back	10mm	5	462000	2310	19.89	21.20	1.352	0.01	0.295	0.399
	FR1 n30_Ant 2	10M	BPSK	25	14	Back	10mm	5	462000	2310	19.94	21.20	1.337	0.01	0.288	0.385
	FR1 n30_Ant 2	10M	BPSK	1	1	Front	10mm	6	462000	2310	19.89	20.50	1.151	-0.04	0.369	0.425
	FR1 n30_Ant 2	10M	BPSK	25	14	Front	10mm	6	462000	2310	19.94	20.50	1.138	0.08	0.307	0.349
	FR1 n30_Ant 2	10M	BPSK	1	1	Back	10mm	6	462000	2310	19.89	20.50	1.151	0.01	0.295	0.339
	FR1 n30_Ant 2	10M	BPSK	25	14	Back	10mm	6	462000	2310	19.94	20.50	1.138	0.01	0.288	0.328
	FR1 n30_Ant 0	10M	BPSK	1	1	Front	10mm	5	462000	2310	19.55	21.30	1.496	0.01	0.382	0.572
	FR1 n30_Ant 0	10M	BPSK	25	0	Front	10mm	5	462000	2310	19.52	21.30	1.507	-0.03	0.377	0.568
92	FR1 n30_Ant 0	10M	BPSK	1	1	Back	10mm	5	462000	2310	19.55	21.30	1.496	0.05	0.563	0.842
	FR1 n30_Ant 0	10M	BPSK	25	0	Back	10mm	5	462000	2310	19.52	21.30	1.507	0.14	0.546	0.823
	FR1 n30_Ant 0	10M	BPSK	50	0	Back	10mm	5	462000	2310	19.51	21.30	1.510	0.11	0.529	0.799
	FR1 n30_Ant 0	10M	BPSK	1	1	Front	10mm	6	462000	2310	19.55	20.60	1.274	0.01	0.382	0.486
	FR1 n30_Ant 0	10M	BPSK	25	0	Front	10mm	6	462000	2310	19.52	20.60	1.282	-0.03	0.377	0.483
	FR1 n30_Ant 0	10M	BPSK	1	1	Back	10mm	6	462000	2310	19.55	20.60	1.274	0.05	0.563	0.717
	FR1 n30_Ant 0	10M	BPSK	25	0	Back	10mm	6	462000	2310	19.52	20.60	1.282	0.14	0.546	0.700
	FR1 n41_Ant 2	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	21.93	22.20	1.064	-0.16	0.445	0.474
	FR1 n41_Ant 2	100M	BPSK	135	69	Front	10mm	5	518598	2592.99	21.82	22.20	1.091	-0.02	0.479	0.523
	FR1 n41_Ant 2	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	21.93	22.20	1.064	0.15	0.600	0.638
	FR1 n41_Ant 2	100M	BPSK	135	69	Back	10mm	5	518598	2592.99	21.82	22.20	1.091	-0.04	0.602	0.657
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	25.02	25.20	1.042	0.05	0.568	0.592
	FR1 n41_Ant 2	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	20.93	21.50	1.140	0.08	0.386	0.440
	FR1 n41_Ant 2	100M	BPSK	135	69	Front	10mm	6	518598	2592.99	20.82	21.50	1.169	0.01	0.415	0.485
	FR1 n41_Ant 2	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	20.93	21.50	1.140	0.03	0.465	0.530
	FR1 n41_Ant 2	100M	BPSK	135	69	Back	10mm	6	518598	2592.99	20.82	21.50	1.169	0.05	0.467	0.546
	FR1 n41_HPUE_Ant 2	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	24.02	24.50	1.117	-0.08	0.444	0.496
	FR1 n41_Ant 0	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	20.62	21.70	1.282	-0.13	0.551	0.707
	FR1 n41_Ant 0	100M	BPSK	135	69	Front	10mm	5	518598	2592.99	20.54	21.70	1.306	-0.1	0.499	0.652
	FR1 n41_Ant 0	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	20.62	21.70	1.282	-0.15	0.738	0.946
	FR1 n41_Ant 0	100M	BPSK	135	69	Back	10mm	5	518598	2592.99	20.54	21.70	1.306	0.18	0.645	0.842



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	FR1 n41_Ant 0	100M	BPSK	270	0	Back	10mm	5	518598	2592.99	20.48	21.70	1.324	0.13	0.633	0.838
	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	23.86	24.70	1.213	-0.17	0.711	0.863
	FR1 n41_Ant 0	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	20.62	21.00	1.091	-0.13	0.551	0.601
	FR1 n41_Ant 0	100M	BPSK	135	69	Front	10mm	6	518598	2592.99	20.54	21.00	1.112	-0.1	0.499	0.555
	FR1 n41_Ant 0	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	20.62	21.00	1.091	-0.15	0.738	0.805
	FR1 n41_Ant 0	100M	BPSK	135	69	Back	10mm	6	518598	2592.99	20.54	21.00	1.112	0.18	0.645	0.717
	FR1 n41_Ant 0	100M	BPSK	270	0	Back	10mm	6	518598	2592.99	20.48	21.00	1.127	0.13	0.633	0.714
	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	23.86	24.00	1.033	-0.17	0.711	0.734
	FR1 n41_Ant 1	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	19.28	20.80	1.419	-0.01	0.410	0.582
	FR1 n41_Ant 1	100M	BPSK	135	0	Front	10mm	5	518598	2592.99	19.19	20.80	1.449	0.08	0.359	0.520
93	FR1 n41_Ant 1	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	19.28	20.80	1.419	0.13	0.678	0.962
	FR1 n41_Ant 1	100M	BPSK	135	0	Back	10mm	5	518598	2592.99	19.19	20.80	1.449	-0.17	0.535	0.775
	FR1 n41_Ant 1	100M	BPSK	270	0	Back	10mm	5	518598	2592.99	19.02	20.80	1.507	-0.03	0.516	0.777
	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	22.33	23.80	1.403	0.14	0.624	0.875
	FR1 n41_Ant 1	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	19.28	20.10	1.208	-0.01	0.410	0.495
	FR1 n41_Ant 1	100M	BPSK	135	0	Front	10mm	6	518598	2592.99	19.19	20.10	1.233	0.08	0.359	0.443
	FR1 n41_Ant 1	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	19.28	20.10	1.208	0.13	0.678	0.819
	FR1 n41_Ant 1	100M	BPSK	135	0	Back	10mm	6	518598	2592.99	19.19	20.10	1.233	-0.17	0.535	0.660
	FR1 n41_Ant 1	100M	BPSK	270	0	Back	10mm	6	518598	2592.99	19.02	20.10	1.282	-0.03	0.516	0.662
	FR1 n41_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	22.33	23.10	1.194	0.14	0.624	0.745
	FR1 n41_Ant 5	100M	BPSK	1	1	Front	10mm	5	518598	2592.99	21.67	23.3	1.455	0.08	0.296	0.431
	FR1 n41_Ant 5	100M	BPSK	135	0	Front	10mm	5	518598	2592.99	21.61	23.3	1.476	0.08	0.248	0.366
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	21.67	23.3	1.455	-0.01	0.454	0.661
	FR1 n41_Ant 5	100M	BPSK	135	0	Back	10mm	5	518598	2592.99	21.61	23.3	1.476	0.01	0.416	0.614
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	24.76	26.3	1.426	0.03	0.432	0.616
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	5	518598	2592.99	21.67	23.3	1.455	0.04	0.432	0.629
	FR1 n41_Ant 5	100M	BPSK	1	1	Front	10mm	6	518598	2592.99	21.67	22.6	1.239	0.08	0.296	0.367
	FR1 n41_Ant 5	100M	BPSK	135	0	Front	10mm	6	518598	2592.99	21.61	22.6	1.256	0.08	0.248	0.311
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	21.67	22.6	1.239	-0.01	0.454	0.562
	FR1 n41_Ant 5	100M	BPSK	135	0	Back	10mm	6	518598	2592.99	21.61	22.6	1.256	0.01	0.416	0.523
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	6	518598	2592.99	24.76	25.6	1.213	0.03	0.432	0.524
	FR1 n48_Ant 6	40M	BPSK	1	104	Front	10mm	5/6	641666	3624.99	19.17	20.90	1.489	-0.19	0.207	0.308
	FR1 n48_Ant 6	40M	BPSK	50	25	Front	10mm	5/6	641666	3624.99	19.22	20.90	1.472	0.18	0.190	0.280
	FR1 n48_Ant 6	40M	BPSK	1	104	Back	10mm	5/6	641666	3624.99	19.17	20.90	1.489	-0.1	0.229	0.341
	FR1 n48_Ant 6	40M	BPSK	50	25	Back	10mm	5/6	641666	3624.99	19.22	20.90	1.472	-0.1	0.211	0.311
	FR1 n48_Ant 7	40M	BPSK	1	104	Front	10mm	5	641666	3624.99	18.59	20.30	1.483	0.08	0.178	0.264
	FR1 n48_Ant 7	40M	BPSK	50	25	Front	10mm	5	641666	3624.99	18.63	20.30	1.469	0.02	0.184	0.270
	FR1 n48_Ant 7	40M	BPSK	1	104	Back	10mm	5	641666	3624.99	18.59	20.30	1.483	0.03	0.230	0.341
	FR1 n48_Ant 7	40M	BPSK	50	25	Back	10mm	5	641666	3624.99	18.63	20.30	1.469	-0.08	0.234	0.344
	FR1 n48_Ant 7	40M	BPSK	1	104	Front	10mm	6	641666	3624.99	18.39	19.60	1.321	0.08	0.178	0.235
	FR1 n48_Ant 7	40M	BPSK	50	25	Front	10mm	6	641666	3624.985	18.43	19.60	1.309	0.02	0.184	0.241
	FR1 n48_Ant 7	40M	BPSK	1	104	Back	10mm	6	641666	3624.99	18.39	19.60	1.321	0.03	0.230	0.304
	FR1 n48_Ant 7	40M	BPSK	50	25	Back	10mm	6	641666	3624.99	18.43	19.60	1.309	-0.08	0.234	0.306
	FR1 n48_Ant 1	40M	BPSK	1	1	Front	10mm	5	641666	3624.99	18.70	19.70	1.259	-0.19	0.262	0.330
	FR1 n48_Ant 1	40M	BPSK	50	25	Front	10mm	5	641666	3624.99	18.68	19.70	1.265	-0.18	0.253	0.320
	FR1 n48_Ant 1	40M	BPSK	1	1	Back	10mm	5	641666	3624.99	18.70	19.70	1.259	-0.1	0.402	0.506
	FR1 n48_Ant 1	40M	BPSK	50	25	Back	10mm	5	641666	3624.99	18.68	19.70	1.265	0.1	0.391	0.495
	FR1 n48_Ant 1	40M	BPSK	1	1	Front	10mm	6	641666	3624.99	17.75	19.00	1.334	-0.19	0.197	0.263
	FR1 n48_Ant 1	40M	BPSK	50	25	Front	10mm	6	641666	3624.99	17.61	19.00	1.377	0.1	0.183	0.252
	FR1 n48_Ant 1	40M	BPSK	1	1	Back	10mm	6	641666	3624.99	17.75	19.00	1.334	-0.18	0.257	0.343
	FR1 n48_Ant 1	40M	BPSK	50	25	Back	10mm	6	641666	3624.99	17.61	19.00	1.377	-0.08	0.239	0.329
	FR1 n48_Ant 5	40M	BPSK	1	104	Front	10mm	5	641666	3624.99	18.24	19.50	1.337	0.18	0.134	0.179
	FR1 n48_Ant 5	20M	BPSK	1	1	Front	10mm	5	641666	3624.99	21.80	23.00	1.318	-0.16	0.311	0.410
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	5	641666	3624.99	21.82	23.00	1.312	-0.04	0.301	0.395
	FR1 n48_Ant 5	40M	BPSK	1	104	Back	10mm	5	641666	3624.99	18.24	19.50	1.337	-0.08	0.190	0.254



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94	FR1 n48_Ant 5	20M	BPSK	1	1	Back	10mm	5	641666	3624.99	21.80	23.00	1.318	-0.08	0.425	0.560
	FR1 n48_Ant 5	40M	BPSK	50	25	Back	10mm	5	641666	3624.99	21.82	23.00	1.312	-0.13	0.408	0.535
	FR1 n48_Ant 5	40M	BPSK	1	104	Front	10mm	6	641666	3624.99	18.24	19.50	1.337	0.18	0.134	0.179
	FR1 n48_Ant 5	20M	BPSK	1	1	Front	10mm	6	641666	3624.99	21.80	22.30	1.122	-0.16	0.311	0.349
	FR1 n48_Ant 5	40M	BPSK	50	25	Front	10mm	6	641666	3624.99	21.82	22.30	1.117	-0.04	0.301	0.336
	FR1 n48_Ant 5	40M	BPSK	1	104	Back	10mm	6	641666	3624.99	18.24	19.50	1.337	-0.08	0.190	0.254
	FR1 n48_Ant 5	20M	BPSK	1	1	Back	10mm	6	641666	3624.99	21.80	22.30	1.122	-0.08	0.425	0.477
	FR1 n48_Ant 5	40M	BPSK	50	25	Back	10mm	6	641666	3624.99	21.82	22.30	1.117	-0.13	0.408	0.456
	FR1 n66_Ant 2	40M	BPSK	1	1	Front	10mm	5	349000	1745	20.39	22.00	1.449	0.01	0.230	0.333
	FR1 n66_Ant 2	40M	BPSK	108	54	Front	10mm	5	349000	1745	20.43	22.00	1.435	-0.04	0.247	0.355
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	5	349000	1745	20.39	22.00	1.449	0.12	0.272	0.394
	FR1 n66_Ant 2	40M	BPSK	108	54	Back	10mm	5	349000	1745	20.43	22.00	1.435	0.11	0.293	0.421
	FR1 n66_Ant 2	40M	BPSK	1	1	Front	10mm	6	349000	1745	20.39	21.30	1.233	0.01	0.230	0.284
	FR1 n66_Ant 2	40M	BPSK	108	54	Front	10mm	6	349000	1745	20.43	21.30	1.222	-0.04	0.247	0.302
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	6	349000	1745	20.39	21.30	1.233	0.12	0.272	0.335
	FR1 n66_Ant 2	40M	BPSK	108	54	Back	10mm	6	349000	1745	20.43	21.30	1.222	0.11	0.293	0.358
	FR1 n66_Ant 0	40M	BPSK	1	1	Front	10mm	5	349000	1745	18.77	20.40	1.455	-0.11	0.444	0.646
	FR1 n66_Ant 0	40M	BPSK	108	54	Front	10mm	5	349000	1745	18.80	20.40	1.445	0.08	0.433	0.626
95	FR1 n66_Ant 0	40M	BPSK	1	1	Back	10mm	5	349000	1745	18.77	20.40	1.455	-0.07	0.627	0.913
	FR1 n66_Ant 0	40M	BPSK	108	54	Back	10mm	5	349000	1745	18.80	20.40	1.445	0.01	0.595	0.860
	FR1 n66_Ant 0	40M	BPSK	216	0	Back	10mm	5	349000	1745	18.75	20.40	1.462	0.01	0.585	0.855
	FR1 n66_Ant 0	40M	BPSK	1	1	Front	10mm	6	349000	1745	18.77	19.70	1.239	-0.11	0.444	0.550
	FR1 n66_Ant 0	40M	BPSK	108	54	Front	10mm	6	349000	1745	18.80	19.70	1.230	0.08	0.433	0.533
	FR1 n66_Ant 0	40M	BPSK	1	1	Back	10mm	6	349000	1745	18.77	19.70	1.239	-0.07	0.627	0.777
	FR1 n66_Ant 0	40M	BPSK	108	54	Back	10mm	6	349000	1745	18.80	19.70	1.230	0.01	0.595	0.732
	FR1 n66_Ant 1	40M	BPSK	1	1	Front	10mm	5	349000	1745	21.91	23.30	1.377	0.08	0.353	0.486
	FR1 n66_Ant 1	40M	BPSK	108	54	Front	10mm	5	349000	1745	21.89	23.30	1.384	0	0.414	0.573
	FR1 n66_Ant 1	40M	BPSK	1	1	Back	10mm	5	349000	1745	21.91	23.30	1.377	0.03	0.510	0.702
	FR1 n66_Ant 1	40M	BPSK	108	54	Back	10mm	5	349000	1745	21.89	23.30	1.384	-0.1	0.613	0.848
	FR1 n66_Ant 1	40M	BPSK	216	0	Back	10mm	5	349000	1745	21.90	23.30	1.380	0.12	0.545	0.752
	FR1 n66_Ant 1	40M	BPSK	1	1	Front	10mm	6	349000	1745	21.91	22.60	1.172	0.08	0.353	0.414
	FR1 n66_Ant 1	40M	BPSK	108	54	Front	10mm	6	349000	1745	21.89	22.60	1.178	0	0.414	0.488
	FR1 n66_Ant 1	40M	BPSK	1	1	Back	10mm	6	349000	1745	21.91	22.60	1.172	0.03	0.510	0.598
	FR1 n66_Ant 1	40M	BPSK	108	54	Back	10mm	6	349000	1745	21.89	22.60	1.178	-0.1	0.613	0.722
	FR1 n66_Ant 5	40M	BPSK	1	1	Front	10mm	5	349000	1745	22.48	23.8	1.355	0.08	0.443	0.600
	FR1 n66_Ant 5	40M	BPSK	108	54	Front	10mm	5	349000	1745	22.48	23.8	1.355	0.02	0.482	0.653
	FR1 n66_Ant 5	40M	BPSK	1	1	Back	10mm	5	349000	1745	22.48	23.8	1.355	-0.03	0.548	0.743
	FR1 n66_Ant 5	40M	BPSK	108	54	Back	10mm	5	349000	1745	22.48	23.8	1.355	0.01	0.598	0.810
	FR1 n66_Ant 5	40M	BPSK	216	0	Back	10mm	5	349000	1745	22.49	23.8	1.352	0.07	0.555	0.750
	FR1 n66_Ant 5	40M	BPSK	1	1	Front	10mm	6	349000	1745	22.48	23.1	1.153	0.08	0.443	0.511
	FR1 n66_Ant 5	40M	BPSK	108	54	Front	10mm	6	349000	1745	22.48	23.1	1.153	0.02	0.482	0.556
	FR1 n66_Ant 5	40M	BPSK	1	1	Back	10mm	6	349000	1745	22.48	23.1	1.153	-0.03	0.548	0.632
	FR1 n66_Ant 5	40M	BPSK	108	54	Back	10mm	6	349000	1745	22.48	23.1	1.153	0.01	0.598	0.690
	FR1 n70_Ant 2	15M	BPSK	1	1	Front	10mm	5	340500	1702.5	22.04	22.80	1.191	0.05	0.313	0.373
	FR1 n70_Ant 2	15M	BPSK	36	22	Front	10mm	5	340500	1702.5	21.96	22.80	1.213	-0.07	0.316	0.383
	FR1 n70_Ant 2	15M	BPSK	1	1	Back	10mm	5	340500	1702.5	22.04	22.80	1.191	0.1	0.445	0.530
	FR1 n70_Ant 2	15M	BPSK	36	22	Back	10mm	5	340500	1702.5	21.96	22.80	1.213	-0.08	0.430	0.522
	FR1 n70_Ant 2	15M	BPSK	1	1	Front	10mm	6	340500	1702.5	22.04	22.10	1.014	0.05	0.313	0.317
	FR1 n70_Ant 2	15M	BPSK	36	22	Front	10mm	6	340500	1702.5	21.96	22.10	1.033	-0.07	0.316	0.326
	FR1 n70_Ant 2	15M	BPSK	1	1	Back	10mm	6	340500	1702.5	22.04	22.10	1.014	0.1	0.445	0.451
	FR1 n70_Ant 2	15M	BPSK	36	22	Back	10mm	6	340500	1702.5	21.96	22.10	1.033	-0.08	0.430	0.444
	FR1 n70_Ant 0	15M	BPSK	1	1	Front	10mm	5	340500	1702.5	18.67	20.20	1.422	-0.13	0.493	0.701
	FR1 n70_Ant 0	15M	BPSK	36	22	Front	10mm	5	340500	1702.5	18.61	20.20	1.442	0.18	0.431	0.622
96	FR1 n70_Ant 0	15M	BPSK	1	1	Back	10mm	5	340500	1702.5	18.67	20.20	1.422	-0.09	0.562	0.799
	FR1 n70_Ant 0	15M	BPSK	36	22	Back	10mm	5	340500	1702.5	18.61	20.20	1.442	-0.1	0.548	0.790



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	FR1 n70_Ant 0	15M	BPSK	1	1	Front	10mm	6	340500	1702.5	18.67	19.50	1.211	-0.13	0.493	0.597
	FR1 n70_Ant 0	15M	BPSK	36	22	Front	10mm	6	340500	1702.5	18.61	19.50	1.227	0.18	0.431	0.529
	FR1 n70_Ant 0	15M	BPSK	1	1	Back	10mm	6	340500	1702.5	18.67	19.50	1.211	-0.09	0.562	0.680
	FR1 n70_Ant 0	15M	BPSK	36	22	Back	10mm	6	340500	1702.5	18.61	19.50	1.227	-0.1	0.548	0.673
	FR1 n71_Ant 0	20M	BPSK	1	1	Front	10mm	5/6	136100	680.5	24.60	25.10	1.122	0.03	0.263	0.295
	FR1 n71_Ant 0	20M	BPSK	50	28	Front	10mm	5/6	136100	680.5	24.58	25.10	1.127	-0.01	0.266	0.300
97	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	5/6	136100	680.5	24.60	25.10	1.122	-0.01	0.318	0.357
	FR1 n71_Ant 0	20M	BPSK	50	28	Back	10mm	5/6	136100	680.5	24.58	25.10	1.127	0.08	0.308	0.347
	FR1 n71_Ant 1	20M	BPSK	1	1	Front	10mm	5/6	136100	680.5	24.26	24.70	1.107	0.08	0.246	0.272
	FR1 n71_Ant 1	20M	BPSK	50	28	Front	10mm	5/6	136100	680.5	24.32	24.70	1.091	0	0.274	0.299
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	5/6	136100	680.5	24.26	24.70	1.107	0.01	0.276	0.305
	FR1 n71_Ant 1	20M	BPSK	50	28	Back	10mm	5/6	136100	680.5	24.32	24.70	1.091	-0.03	0.317	0.346
	FR1 n77_Ant 6	100M	BPSK	1	137	Front	10mm	5	656000	3840	18.28	19.40	1.294	-0.03	0.282	0.365
	FR1 n77_Ant 6	100M	BPSK	135	69	Front	10mm	5	656000	3840	18.27	19.40	1.297	-0.14	0.283	0.367
	FR1 n77_Ant 6	100M	BPSK	1	137	Back	10mm	5	656000	3840	18.28	19.40	1.294	0.11	0.317	0.410
	FR1 n77_Ant 6	100M	BPSK	135	69	Back	10mm	5	656000	3840	18.27	19.40	1.297	-0.08	0.363	0.471
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	137	Back	10mm	5	656000	3840	21.33	22.40	1.279	0.12	0.344	0.440
	FR1 n77_Ant 6	100M	BPSK	1	137	Front	10mm	6	656000	3840	18.28	18.70	1.102	-0.03	0.282	0.311
	FR1 n77_Ant 6	100M	BPSK	135	69	Front	10mm	6	656000	3840	18.27	18.70	1.104	-0.14	0.283	0.312
	FR1 n77_Ant 6	100M	BPSK	1	137	Back	10mm	6	656000	3840	18.28	18.70	1.102	0.11	0.317	0.349
	FR1 n77_Ant 6	100M	BPSK	135	69	Back	10mm	6	656000	3840	18.27	18.70	1.104	-0.08	0.363	0.401
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	137	Back	10mm	6	656000	3840	21.33	21.70	1.089	0.12	0.344	0.375
	FR1 n77_Ant 6	100M	BPSK	1	137	Front	10mm	5	633332	3499.98	18.33	19.40	1.279	0.08	0.264	0.338
	FR1 n77_Ant 6	100M	BPSK	135	69	Front	10mm	5	633332	3499.98	18.30	19.40	1.288	-0.14	0.280	0.361
	FR1 n77_Ant 6	100M	BPSK	1	137	Back	10mm	5	633332	3499.98	18.33	19.40	1.279	0.03	0.368	0.471
98	FR1 n77_Ant 6	100M	BPSK	135	69	Back	10mm	5	633332	3499.98	18.30	19.40	1.288	-0.16	0.477	0.614
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	137	Back	10mm	5	633332	3499.98	21.35	22.40	1.274	0.12	0.454	0.578
	FR1 n77_Ant 6	100M	BPSK	1	137	Front	10mm	6	633332	3499.98	18.33	18.70	1.089	0.08	0.264	0.287
	FR1 n77_Ant 6	100M	BPSK	135	69	Front	10mm	6	633332	3499.98	18.30	18.70	1.096	-0.14	0.280	0.307
	FR1 n77_Ant 6	100M	BPSK	1	137	Back	10mm	6	633332	3499.98	18.33	18.70	1.089	0.03	0.368	0.401
	FR1 n77_Ant 6	100M	BPSK	135	69	Back	10mm	6	633332	3499.98	18.30	18.70	1.096	-0.16	0.477	0.523
	FR1 n77_HPUE_Ant 6	100M	BPSK	1	137	Back	10mm	6	633332	3499.98	21.35	21.70	1.084	0.12	0.454	0.492
	FR1 n77_Ant 7	100M	BPSK	1	137	Front	10mm	5	656000	3840	18.45	19.60	1.303	0.08	0.216	0.281
	FR1 n77_Ant 7	100M	BPSK	135	69	Front	10mm	5	656000	3840	18.41	19.60	1.315	-0.15	0.229	0.301
	FR1 n77_Ant 7	100M	BPSK	1	137	Back	10mm	5	656000	3840	18.45	19.60	1.303	0.03	0.274	0.357
	FR1 n77_Ant 7	100M	BPSK	135	69	Back	10mm	5	656000	3840	18.41	19.60	1.315	-0.13	0.320	0.421
	FR1 n77_HPUE_Ant 7	100M	BPSK	1	137	Back	10mm	5	656000	3840	21.50	22.40	1.230	-0.08	0.313	0.385
	FR1 n77_Ant 7	100M	BPSK	1	137	Front	10mm	6	656000	3840	18.45	18.90	1.109	0.08	0.216	0.240
	FR1 n77_Ant 7	100M	BPSK	135	69	Front	10mm	6	656000	3840	18.41	18.90	1.119	-0.15	0.229	0.256
	FR1 n77_Ant 7	100M	BPSK	1	137	Back	10mm	6	656000	3840	18.45	18.90	1.109	0.03	0.274	0.304
	FR1 n77_Ant 7	100M	BPSK	135	69	Back	10mm	6	656000	3840	18.41	18.90	1.119	-0.13	0.320	0.358
	FR1 n77_HPUE_Ant 7	100M	BPSK	1	137	Back	10mm	6	656000	3840	21.50	21.70	1.047	-0.08	0.313	0.328
	FR1 n77_Ant 7	100M	BPSK	1	137	Front	10mm	5	633332	3499.98	18.56	19.60	1.271	0.18	0.244	0.310
	FR1 n77_Ant 7	100M	BPSK	135	69	Front	10mm	5	633332	3499.98	18.53	19.60	1.279	-0.12	0.251	0.321
	FR1 n77_Ant 7	100M	BPSK	1	137	Back	10mm	5	633332	3499.98	18.56	19.60	1.271	-0.17	0.280	0.356
	FR1 n77_Ant 7	100M	BPSK	135	69	Back	10mm	5	633332	3499.98	18.53	19.60	1.279	0.09	0.304	0.389
	FR1 n77_HPUE_Ant 7	100M	BPSK	1	137	Back	10mm	5	633332	3499.98	21.59	22.40	1.205	0.17	0.283	0.341
	FR1 n77_Ant 7	100M	BPSK	1	137	Front	10mm	6	633332	3499.98	18.56	18.90	1.081	0.18	0.244	0.264
	FR1 n77_Ant 7	100M	BPSK	135	69	Front	10mm	6	633332	3499.98	18.53	18.90	1.089	-0.12	0.251	0.273
	FR1 n77_Ant 7	100M	BPSK	1	137	Back	10mm	6	633332	3499.98	18.56	18.90	1.081	-0.17	0.280	0.303
	FR1 n77_Ant 7	100M	BPSK	135	69	Back	10mm	6	633332	3499.98	18.53	18.90	1.089	0.09	0.304	0.331
	FR1 n77_HPUE_Ant 7	100M	BPSK	1	137	Back	10mm	6	633332	3499.98	21.59	21.70	1.026	0.17	0.283	0.290
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	5	656000	3840	18.24	19.80	1.432	-0.1	0.225	0.322
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	5	656000	3840	18.16	19.80	1.459	-0.03	0.139	0.203
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	5	656000	3840	18.24	19.80	1.432	-0.13	0.315	0.451



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	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	5	656000	3840	18.16	19.80	1.459	0.14	0.308	0.449
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	5	656000	3840	21.29	22.80	1.416	0.17	0.298	0.422
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	6	656000	3840	18.24	19.10	1.219	-0.1	0.225	0.274
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	6	656000	3840	18.16	19.10	1.242	-0.03	0.139	0.173
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	6	656000	3840	18.24	19.10	1.219	-0.13	0.315	0.384
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	6	656000	3840	18.16	19.10	1.242	0.14	0.308	0.382
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	6	656000	3840	21.29	22.10	1.205	0.17	0.298	0.359
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	18.36	19.80	1.393	0.01	0.162	0.226
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	5	633332	3499.98	18.26	19.80	1.426	0.1	0.150	0.214
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	5	633332	3499.98	18.36	19.80	1.393	0.14	0.284	0.396
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	5	633332	3499.98	18.26	19.80	1.426	-0.17	0.199	0.284
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	5	633332	3499.98	21.41	22.80	1.377	-0.09	0.243	0.335
	FR1 n77_Ant 1	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	18.36	19.10	1.186	0.01	0.162	0.192
	FR1 n77_Ant 1	100M	BPSK	135	69	Front	10mm	6	633332	3499.98	18.26	19.10	1.213	0.1	0.150	0.182
	FR1 n77_Ant 1	100M	BPSK	1	1	Back	10mm	6	633332	3499.98	18.36	19.10	1.186	0.14	0.284	0.337
	FR1 n77_Ant 1	100M	BPSK	135	69	Back	10mm	6	633332	3499.98	18.26	19.10	1.213	-0.17	0.199	0.241
	FR1 n77_HPUE_Ant 1	100M	BPSK	1	1	Back	10mm	6	633332	3499.98	21.41	22.10	1.172	-0.09	0.243	0.285
	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	5	656000	3840	21.00	22.40	1.380	0.08	0.198	0.273
	FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	5	656000	3840	20.96	22.40	1.393	-0.04	0.194	0.270
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	5	656000	3840	21.00	22.40	1.380	0.1	0.261	0.360
	FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	5	656000	3840	20.96	22.40	1.393	0.03	0.187	0.261
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	5	656000	3840	24.13	25.40	1.340	0.12	0.242	0.324
	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	6	656000	3840	21.00	21.70	1.175	0.08	0.198	0.233
	FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	6	656000	3840	20.96	21.70	1.186	-0.04	0.194	0.230
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	6	656000	3840	21.00	21.70	1.175	0.1	0.261	0.307
	FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	6	656000	3840	20.96	21.70	1.186	0.03	0.187	0.222
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	6	656000	3840	24.13	24.70	1.140	0.12	0.242	0.276
	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	5	633332	3499.98	21.25	22.40	1.303	0.13	0.191	0.249
	FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	5	633332	3499.98	21.10	22.40	1.349	-0.02	0.213	0.287
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	5	633332	3499.98	21.25	22.40	1.303	0.12	0.202	0.263
	FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	5	633332	3499.98	21.10	22.40	1.349	0.03	0.188	0.254
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	5	633332	3499.98	24.23	25.40	1.309	-0.1	0.202	0.264
	FR1 n77_Ant 5	100M	BPSK	1	1	Front	10mm	6	633332	3499.98	21.25	21.70	1.109	0.13	0.191	0.212
	FR1 n77_Ant 5	100M	BPSK	135	69	Front	10mm	6	633332	3499.98	21.10	21.70	1.148	-0.02	0.213	0.245
	FR1 n77_Ant 5	100M	BPSK	1	1	Back	10mm	6	633332	3499.98	21.25	21.70	1.109	0.12	0.202	0.224
	FR1 n77_Ant 5	100M	BPSK	135	69	Back	10mm	6	633332	3499.98	21.10	21.70	1.148	0.03	0.188	0.216
	FR1 n77_HPUE_Ant 5	100M	BPSK	1	1	Back	10mm	6	633332	3499.98	24.23	24.70	1.114	-0.1	0.202	0.225

<NTN SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	NTN B23_Ant 1	15K	BPSK	1	10	Front	10mm	5	25501	2000.1	22.59	22.90	1.074	79	1.051	0.08	0.338	0.382
99	NTN B23_Ant 1	15K	BPSK	1	10	Back	10mm	5	25501	2000.1	22.59	22.90	1.074	79	1.051	-0.09	0.465	0.525
	NTN B255_Ant 4	15K	BPSK	1	10	Front	10mm	5	261505	1626.6	23.06	23.40	1.081	79	1.051	0.03	0.655	0.744
100	NTN B255_Ant 4	15K	BPSK	1	10	Back	10mm	5	261505	1626.6	23.06	23.40	1.081	79	1.051	-0.1	0.838	0.952
	NTN B255_Ant 4	15K	BPSK	1	10	Back	10mm	5	261674	1643.5	22.81	23.40	1.146	79	1.051	0.07	0.783	0.943
	NTN B255_Ant 4	15K	BPSK	1	10	Back	10mm	5	261843	1660.4	22.76	23.40	1.159	79	1.051	0.04	0.766	0.933

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
101	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	3	11	2462	22.36	22.50	1.033	100	1.000	-0.16	0.507	0.524
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	3	11	2462	22.36	22.50	1.033	100	1.000	-0.04	0.689	0.712
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	3	1	2412	22.50	22.50	1.000	100	1.000	0.05	0.224	0.224
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	3	1	2412	22.50	22.50	1.000	100	1.000	-0.12	0.176	0.176
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3+4(3)	3	6	2437	22.34	22.50	1.038	100	1.000	-0.14	0.220	0.228
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3+4(4)	3	6	2437	22.11	22.50	1.094	100	1.000	-0.14	0.202	0.221
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3+4(3)	3	6	2437	22.34	22.50	1.038	100	1.000	-0.04	0.421	0.437
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3+4(4)	3	6	2437	22.11	22.50	1.094	100	1.000	-0.04	0.383	0.419
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3	4	11	2462	16.33	16.50	1.040	100	1.000	0.02	0.113	0.118
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3	4	11	2462	16.33	16.50	1.040	100	1.000	-0.06	0.151	0.157
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	4	6	2437	15.67	16.50	1.211	100	1.000	0.09	0.049	0.059
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	4	6	2437	15.67	16.50	1.211	100	1.000	-0.14	0.051	0.062
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3+4(3)	4	11	2462	16.50	16.50	1.000	100	1.000	0.07	0.091	0.091
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 3+4(4)	4	11	2462	15.37	16.50	1.297	100	1.000	0.07	0.058	0.075
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3+4(3)	4	11	2462	16.50	16.50	1.000	100	1.000	-0.06	0.116	0.116
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 3+4(4)	4	11	2462	15.37	16.50	1.297	100	1.000	-0.06	0.112	0.145
102	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	3	46	5230	19.38	20.00	1.153	99.03	1.010	-0.13	0.274	0.319
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	3	46	5230	19.95	20.00	1.012	99.03	1.010	-0.13	0.256	0.262
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(3)	3	46	5230	19.38	20.00	1.153	99.03	1.010	0.03	0.506	0.589
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(4)	3	46	5230	19.95	20.00	1.012	99.03	1.010	0.03	0.120	0.123
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(3)	4	54	5270	17.69	18.00	1.074	99.03	1.010	-0.1	0.180	0.195
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 3+4(4)	4	54	5270	17.41	18.00	1.146	99.03	1.010	-0.1	0.144	0.167
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(3)	4	54	5270	17.69	18.00	1.074	99.03	1.010	-0.09	0.237	0.257
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 3+4(4)	4	54	5270	17.41	18.00	1.146	99.03	1.010	-0.09	0.168	0.194
	WLAN5GHz	802.11n-HT20 MCS0	Front	10mm	Ant 3+4(3)	3	60	5300	18.75	19.50	1.189	99.48	1.005	-0.11	0.306	0.366
	WLAN5GHz	802.11n-HT20 MCS0	Front	10mm	Ant 3+4(4)	3	60	5300	19.16	19.50	1.081	99.48	1.005	-0.11	0.195	0.212
103	WLAN5GHz	802.11n-HT20 MCS0	Back	10mm	Ant 3+4(3)	3	60	5300	18.75	19.50	1.189	99.48	1.005	0.03	0.451	0.539
	WLAN5GHz	802.11n-HT20 MCS0	Back	10mm	Ant 3+4(4)	3	60	5300	19.16	19.50	1.081	99.48	1.005	0.03	0.093	0.101
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	3	122	5610	17.83	18.00	1.040	97.76	1.023	-0.11	0.231	0.246
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	3	122	5610	17.87	18.00	1.030	97.76	1.023	-0.11	0.103	0.109
104	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	3	122	5610	17.83	18.00	1.040	97.76	1.023	0.02	0.297	0.316
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	3	122	5610	17.87	18.00	1.030	97.76	1.023	0.02	0.110	0.116
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	4	122	5610	15.93	17.00	1.279	97.76	1.023	-0.13	0.166	0.217
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	4	122	5610	15.77	17.00	1.327	97.76	1.023	-0.13	0.083	0.113
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	4	122	5610	15.93	17.00	1.279	97.76	1.023	0.07	0.211	0.276
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	4	122	5610	15.77	17.00	1.327	97.76	1.023	0.07	0.075	0.102
105	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 3+4(3)	3	165	5825	20.33	20.50	1.040	99.63	1.004	0.03	0.302	0.315
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Ant 3+4(4)	3	165	5825	20.48	20.50	1.005	99.63	1.004	0.03	0.335	0.338
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 3+4(3)	3	165	5825	20.33	20.50	1.040	99.63	1.004	-0.13	0.551	0.575
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Ant 3+4(4)	3	165	5825	20.48	20.50	1.005	99.63	1.004	-0.13	0.351	0.354
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	4	155	5775	13.55	14.00	1.109	97.76	1.023	-0.17	0.069	0.078
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	4	155	5775	13.95	14.00	1.012	97.76	1.023	-0.17	0.055	0.057
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	4	155	5775	13.55	14.00	1.109	97.76	1.023	-0.1	0.089	0.101
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	4	155	5775	13.95	14.00	1.012	97.76	1.023	-0.1	0.049	0.051
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	3	171	5855	19.16	19.50	1.081	97.76	1.023	-0.07	0.204	0.226
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	3	171	5855	19.33	19.50	1.040	97.76	1.023	-0.07	0.214	0.228
106	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	3	171	5855	19.16	19.50	1.081	97.76	1.023	-0.02	0.337	0.373
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	3	171	5855	19.33	19.50	1.040	97.76	1.023	-0.02	0.232	0.247
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(3)	4	171	5855	17.97	18.00	1.007	97.76	1.023	-0.19	0.138	0.142
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 3+4(4)	4	171	5855	17.85	18.00	1.035	97.76	1.023	-0.19	0.147	0.156
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(3)	4	171	5855	17.97	18.00	1.007	97.76	1.023	-0.16	0.255	0.263
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 3+4(4)	4	171	5855	17.85	18.00	1.035	97.76	1.023	-0.16	0.146	0.155

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
107	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	3	143	6665	14.84	16.00	1.306	95.24	1.050	0.02	0.078	0.107	0.637	0.874
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	3	143	6665	14.59	16.00	1.384	95.24	1.050	0.02	0.067	0.097	0.455	0.661
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 3+4(3)	3	143	6665	14.84	16.00	1.306	95.24	1.050	0.05	0.054	0.074	0.455	0.624
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 3+4(4)	3	143	6665	14.59	16.00	1.384	95.24	1.050	0.05	0.049	0.071	0.354	0.514
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	3	15	6025	14.95	15.50	1.135	95.24	1.050	0.08	0.060	0.072	0.48	0.572
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	3	15	6025	14.67	15.50	1.211	95.24	1.050	0.08	0.060	0.076	0.472	0.600
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	3	47	6185	14.90	15.50	1.148	95.24	1.050	0.04	0.042	0.051	0.312	0.376
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	3	47	6185	14.42	15.50	1.282	95.24	1.050	0.04	0.045	0.061	0.34	0.458
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	3	111	6505	14.69	15.00	1.074	95.24	1.050	0.03	0.094	0.106	0.746	0.841
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	3	111	6505	14.42	15.00	1.143	95.24	1.050	0.03	0.073	0.088	0.514	0.617
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	3	207	6985	14.96	15.50	1.132	95.24	1.050	0.01	0.057	0.068	0.392	0.466
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	3	207	6985	14.26	15.50	1.330	95.24	1.050	0.01	0.031	0.043	0.24	0.335
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.02	0.078	0.107	0.637	0.874
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.02	0.067	0.097	0.455	0.661
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.05	0.054	0.074	0.455	0.624
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.05	0.049	0.071	0.354	0.514
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	4	15	6025	14.95	15.50	1.135	95.24	1.050	0.08	0.060	0.072	0.48	0.572
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	4	15	6025	14.67	15.50	1.211	95.24	1.050	0.08	0.060	0.076	0.472	0.600
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	4	47	6185	14.90	15.50	1.148	95.24	1.050	0.04	0.042	0.051	0.312	0.376
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	4	47	6185	14.42	15.50	1.282	95.24	1.050	0.04	0.045	0.061	0.34	0.458
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	4	111	6505	14.69	15.00	1.074	95.24	1.050	0.03	0.094	0.106	0.746	0.841
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	4	111	6505	14.42	15.00	1.143	95.24	1.050	0.03	0.073	0.088	0.514	0.617
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	4	207	6985	14.96	15.50	1.132	95.24	1.050	0.01	0.057	0.068	0.392	0.466
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(4)	4	207	6985	14.26	15.50	1.330	95.24	1.050	0.01	0.031	0.043	0.24	0.335

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	Ant 3	0	78	2480	19.90	21.00	1.288	77.07	1.081	-0.09	0.309	0.430
108	Bluetooth	1Mbps	Back	10mm	Ant 3	0	78	2480	19.90	21.00	1.288	77.07	1.081	-0.03	0.372	0.518
	Bluetooth	1Mbps	Front	10mm	Ant 4	0	78	2480	19.67	21.00	1.358	76.93	1.083	0.04	0.171	0.252
	Bluetooth	1Mbps	Back	10mm	Ant 4	0	78	2480	19.67	21.00	1.358	76.93	1.083	0	0.166	0.244
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(3)	0	39	2441	20.21	21.00	1.199	76.96	1.082	-0.01	0.162	0.210
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(4)	0	39	2441	20.13	21.00	1.222	76.96	1.082	-0.01	0.134	0.177
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(3)	0	39	2441	20.21	21.00	1.199	76.96	1.082	-0.04	0.216	0.280
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(4)	0	39	2441	20.13	21.00	1.222	76.96	1.082	-0.04	0.205	0.271
	Bluetooth	1Mbps	Front	10mm	Ant 3	2	39	2441	16.93	17.00	1.016	77.07	1.081	0.02	0.137	0.151
	Bluetooth	1Mbps	Back	10mm	Ant 3	2	39	2441	16.93	17.00	1.016	77.07	1.081	-0.02	0.191	0.210
	Bluetooth	1Mbps	Front	10mm	Ant 4	2	78	2480	19.67	20.00	1.079	76.93	1.083	0.04	0.171	0.200
	Bluetooth	1Mbps	Back	10mm	Ant 4	2	78	2480	19.67	20.00	1.079	76.93	1.083	0	0.166	0.194
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(3)	2	0	2402	16.98	17.00	1.005	76.96	1.082	-0.15	0.088	0.096
	Bluetooth	1Mbps	Front	10mm	Ant 3+4(4)	2	0	2402	16.41	17.00	1.146	76.96	1.082	-0.15	0.075	0.093
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(3)	2	0	2402	16.98	17.00	1.005	76.96	1.082	-0.1	0.136	0.148
	Bluetooth	1Mbps	Back	10mm	Ant 3+4(4)	2	0	2402	16.41	17.00	1.146	76.96	1.082	-0.1	0.095	0.118

<Thread SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Thread	250K	Front	10mm	Ant 3	0	18	2440	20.65	22.00	1.363	89.87	1.001	-0.03	0.400	0.546
109	Thread	250K	Back	10mm	Ant 3	0	18	2440	20.65	22.00	1.363	89.87	1.001	-0.03	0.521	0.711
	Thread	250K	Front	10mm	Ant 3	2	25	2475	14.88	16.00	1.294	89.95	1.001	-0.16	0.109	0.141
	Thread	250K	Back	10mm	Ant 3	2	25	2475	14.88	16.00	1.294	89.95	1.001	-0.01	0.144	0.187

14.4 Product Specific SAR

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
110	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Edge	0mm	5	9400	1880	19.74	20.60	1.219	0.03	1.950	2.377
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Edge	0mm	5	9262	1852.4	19.73	20.60	1.222	-0.08	1.810	2.211
	WCDMA II_Ant 0	RMC 12.2Kbps	Bottom Edge	0mm	5	9538	1907.6	19.64	20.60	1.247	0.1	1.860	2.320
111	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Edge	0mm	5	1413	1732.6	19.82	20.90	1.282	0.1	1.860	2.385
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Edge	0mm	5	1312	1712.4	19.81	20.90	1.285	0.1	1.790	2.301
	WCDMA IV_Ant 0	RMC 12.2Kbps	Bottom Edge	0mm	5	1513	1752.6	19.65	20.90	1.334	0.12	1.710	2.280

<LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
112	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	21100	2535	19.62	21.10	1.406			0	1.750	2.461
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	20850	2510	19.61	21.10	1.409			0.08	1.690	2.382
	LTE Band 7_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	21350	2560	19.61	21.10	1.409			-0.17	1.670	2.354
	CA_7C_Ant 0	20M	QPSK	1	99	Bottom Edge	0mm	5	20850	2510	19.91	21.10	1.315			0.01	1.700	2.236
	CA_7C_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	21100	2535	19.89	21.10	1.321			-0.15	1.680	2.220
	CA_7C_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	21350	2560	19.88	21.10	1.324			0.19	1.590	2.106
113	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	26340	1880	18.33	20.20	1.538			-0.03	1.550	2.384
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	26140	1860	18.32	20.20	1.542			-0.03	1.450	2.235
	LTE Band 25_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	26590	1905	18.25	20.20	1.567			0.14	1.480	2.319
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	40620	2593	22.19	23.80	1.449	62.9	1.006	0.11	1.440	2.099
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	39750	2506	22.18	23.80	1.452	62.9	1.006	0.18	1.580	2.308
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	40185	2549.5	22.11	23.80	1.476	62.9	1.006	0.14	1.550	2.301
	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	41055	2636.5	22.16	23.80	1.459	62.9	1.006	-0.17	1.590	2.333
114	LTE Band 41_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	41490	2680	22.18	23.80	1.452	62.9	1.006	-0.01	1.710	2.498
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	40620	2593	23.71	25.40	1.476	42.9	1.009	0.17	1.440	2.144
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	39750	2506	23.69	25.40	1.483	42.9	1.009	0.01	1.560	2.334
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	40185	2549.5	23.70	25.40	1.479	42.9	1.009	0.03	1.530	2.283
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	41055	2636.5	23.66	25.40	1.493	42.9	1.009	-0.08	1.570	2.365
	LTE Band 41_HPUE_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	41490	2680	23.70	25.40	1.479	42.9	1.009	-0.08	1.650	2.462
	CA_41C_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	41490	2680	22.23	23.80	1.435	62.9	1.006	0.13	1.560	2.253
	CA_41C_Ant 0	20M	QPSK	1	99	Bottom Edge	0mm	5	39750	2506	22.08	23.80	1.486	62.9	1.006	0.03	1.430	2.138
	CA_41C_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	40185	2549.5	22.08	23.80	1.486	62.9	1.006	0.18	1.400	2.093
	CA_41C_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	40620	2593	22.21	23.80	1.442	62.9	1.006	0.16	1.300	1.886
	CA_41C_Ant 0	20M	QPSK	1	0	Bottom Edge	0mm	5	41055	2636.5	22.13	23.80	1.469	62.9	1.006	-0.1	1.420	2.098

<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
115	FR1 n7_Ant 0	50M	BPSK	1	1	Bottom Edge	0mm	5	507000	2535	19.77	20.90	1.297	0.03	1.620	2.101
116	FR1 n25_Ant 0	40M	BPSK	1	1	Bottom Edge	0mm	5	376500	1882.5	18.46	20.00	1.426	0.02	1.590	2.267
117	FR1 n41_Ant 0	100M	BPSK	1	1	Bottom Edge	0mm	5	518598	2592.99	20.62	21.70	1.282	0.01	1.780	2.283
	FR1 n41_HPUE_Ant 0	100M	BPSK	1	1	Bottom Edge	0mm	5	518598	2592.99	23.86	24.70	1.213	-0.05	1.690	2.051
118	FR1 n66_Ant 0	40M	BPSK	1	1	Bottom Edge	0mm	5	349000	1745	18.77	20.40	1.455	0	1.520	2.212

<NTN SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	NTN B23_Ant 1	15K	BPSK	1	10	Front	0mm	5	25501	2000.1	22.59	22.90	1.074	79	1.051	0.01	1.750	1.975
	NTN B23_Ant 1	15K	BPSK	1	10	Back	0mm	5	25501	2000.1	22.59	22.90	1.074	79	1.051	-0.06	0.805	0.909
119	NTN B23_Ant 1	15K	BPSK	1	10	Left Edge	0mm	5	25501	2000.1	22.59	22.90	1.074	79	1.051	0.03	2.170	2.449
	NTN B23_Ant 1	15K	BPSK	1	10	Left Edge	0mm	5	25600	2010	22.32	22.90	1.143	79	1.051	0	1.660	1.994
	NTN B23_Ant 1	15K	BPSK	1	10	Left Edge	0mm	5	25699	2019.9	22.45	22.90	1.109	79	1.051	-0.05	1.620	1.889
	NTN B23_Ant 1	15K	BPSK	1	10	Right Edge	0mm	5	25501	2000.1	22.59	22.90	1.074	79	1.051	0.08	0.325	0.367
	NTN B23_Ant 1	15K	BPSK	1	10	Top Edge	0mm	5	25501	2000.1	22.59	22.90	1.074	79	1.051	0.01	1.060	1.196
	NTN B255_Ant 4	15K	BPSK	1	10	Front	0mm	5	261505	1626.6	23.06	23.40	1.081	79	1.051	-0.05	1.750	1.989
	NTN B255_Ant 4	15K	BPSK	1	10	Back	0mm	5	261505	1626.6	23.06	23.40	1.081	79	1.051	0.03	1.500	1.705
	NTN B255_Ant 4	15K	BPSK	1	10	Left Edge	0mm	5	261505	1626.6	23.06	23.40	1.081	79	1.051	-0.08	0.535	0.608
	NTN B255_Ant 4	15K	BPSK	1	10	Right Edge	0mm	5	261505	1626.6	23.06	23.40	1.081	79	1.051	-0.08	1.860	2.114
	NTN B255_Ant 4	15K	BPSK	1	10	Right Edge	0mm	5	261674	1643.5	22.81	23.40	1.146	79	1.051	0.1	1.820	2.191
120	NTN B255_Ant 4	15K	BPSK	1	10	Right Edge	0mm	5	261843	1660.4	22.76	23.40	1.159	79	1.051	0.08	2.040	2.484
	NTN B255_Ant 4	15K	BPSK	1	10	Top Edge	0mm	5	261505	1626.6	23.06	23.40	1.081	79	1.051	-0.18	1.160	1.318



<WLAN SAR>

Plo t No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
121	WLAN5GHz	802.11n-HT20 MCS0	Front	0mm	Ant 3+4(3)	3	60	5300	18.75	19.50	1.189	99.48	1.005	0.01	1.510	1.804
	WLAN5GHz	802.11n-HT20 MCS0	Front	0mm	Ant 3+4(4)	3	60	5300	19.16	19.50	1.081	99.48	1.005	0.01	0.853	0.927
	WLAN5GHz	802.11n-HT20 MCS0	Back	0mm	Ant 3+4(3)	3	60	5300	18.75	19.50	1.189	99.48	1.005	-0.02	0.449	0.536
	WLAN5GHz	802.11n-HT20 MCS0	Back	0mm	Ant 3+4(4)	3	60	5300	19.16	19.50	1.081	99.48	1.005	-0.02	0.106	0.115
	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(3)	3	60	5300	18.75	19.50	1.189	99.48	1.005	0.01	2.330	2.783
	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(4)	3	60	5300	19.16	19.50	1.081	99.48	1.005	0.01	0.001	0.001
	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(3)	3	52	5260	18.73	19.50	1.194	99.48	1.005	0.01	1.690	2.028
	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(4)	3	52	5260	18.80	19.50	1.175	99.48	1.005	0.01	0.001	0.001
	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(3)	3	56	5280	18.49	19.50	1.262	99.48	1.005	-0.07	2.110	2.676
	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(4)	3	56	5280	19.10	19.50	1.096	99.48	1.005	-0.07	0.001	0.001
	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(3)	3	64	5320	16.95	18.00	1.274	99.48	1.005	-0.06	1.370	1.753
	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(4)	3	64	5320	17.48	18.00	1.127	99.48	1.005	-0.06	0.001	0.001
122	WLAN5GHz	802.11n-HT20 MCS0	Right Edge	0mm	Ant 3+4(3)	3	60	5300	18.75	19.50	1.189	99.48	1.005	-0.03	0.001	0.001
	WLAN5GHz	802.11n-HT20 MCS0	Right Edge	0mm	Ant 3+4(4)	3	60	5300	19.16	19.50	1.081	99.48	1.005	-0.03	0.277	0.301
	WLAN5GHz	802.11n-HT20 MCS0	Top Edge	0mm	Ant 3+4(3)	3	60	5300	18.75	19.50	1.189	99.48	1.005	-0.01	0.001	0.001
	WLAN5GHz	802.11n-HT20 MCS0	Top Edge	0mm	Ant 3+4(4)	3	60	5300	19.16	19.50	1.081	99.48	1.005	-0.01	0.848	0.922
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(3)	4	54	5270	17.69	18.00	1.074	99.03	1.010	-0.15	0.970	1.052
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 3+4(4)	4	54	5270	17.41	18.00	1.146	99.03	1.010	-0.15	0.659	0.762
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(3)	4	54	5270	17.69	18.00	1.074	99.03	1.010	0	0.362	0.393
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 3+4(4)	4	54	5270	17.41	18.00	1.146	99.03	1.010	0	0.090	0.104
	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 3+4(3)	4	54	5270	17.69	18.00	1.074	99.03	1.010	-0.08	1.570	1.703
	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 3+4(4)	4	54	5270	17.41	18.00	1.146	99.03	1.010	-0.08	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Edge	0mm	Ant 3+4(3)	4	54	5270	17.69	18.00	1.074	99.03	1.010	0.11	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Edge	0mm	Ant 3+4(4)	4	54	5270	17.41	18.00	1.146	99.03	1.010	0.11	0.159	0.184
	WLAN5GHz	802.11n-HT40 MCS0	Top Edge	0mm	Ant 3+4(3)	4	54	5270	17.69	18.00	1.074	99.03	1.010	0.07	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Top Edge	0mm	Ant 3+4(4)	4	54	5270	17.41	18.00	1.146	99.03	1.010	0.07	0.596	0.690
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(3)	3	122	5610	17.83	18.00	1.040	97.76	1.023	-0.15	1.190	1.266
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(4)	3	122	5610	17.87	18.00	1.030	97.76	1.023	-0.15	1.190	1.254
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(3)	3	122	5610	17.83	18.00	1.040	97.76	1.023	-0.09	0.362	0.385
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(4)	3	122	5610	17.87	18.00	1.030	97.76	1.023	-0.09	0.134	0.141
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(3)	3	122	5610	17.83	18.00	1.040	97.76	1.023	-0.1	2.560	2.723
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(4)	3	122	5610	17.87	18.00	1.030	97.76	1.023	-0.1	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(3)	3	106	5530	13.32	14.00	1.169	97.76	1.023	-0.17	0.806	0.964
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(4)	3	106	5530	13.43	14.00	1.140	97.76	1.023	-0.17	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(3)	3	138	5690	17.19	18.00	1.205	97.76	1.023	0.07	1.770	2.182
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(4)	3	138	5690	17.16	18.00	1.213	97.76	1.023	0.07	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	0mm	Ant 3+4(3)	3	122	5610	17.83	18.00	1.040	97.76	1.023	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	0mm	Ant 3+4(4)	3	122	5610	17.87	18.00	1.030	97.76	1.023	-0.15	0.621	0.655
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	0mm	Ant 3+4(3)	3	122	5610	17.83	18.00	1.040	97.76	1.023	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	0mm	Ant 3+4(4)	3	122	5610	17.87	18.00	1.030	97.76	1.023	-0.15	0.519	0.547
123	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(3)	4	122	5610	15.93	17.00	1.279	97.76	1.023	-0.15	0.807	1.056
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(4)	4	122	5610	15.77	17.00	1.327	97.76	1.023	-0.15	0.883	1.199
124	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(3)	4	122	5610	15.93	17.00	1.279	97.76	1.023	-0.11	0.253	0.331
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(4)	4	122	5610	15.77	17.00	1.327	97.76	1.023	-0.11	0.103	0.140
125	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(3)	4	122	5610	15.93	17.00	1.279	97.76	1.023	-0.11	1.500	1.963
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(4)	4	122	5610	15.77	17.00	1.327	97.76	1.023	-0.11	0.001	0.001
126	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	0mm	Ant 3+4(3)	4	122	5610	15.93	17.00	1.279	97.76	1.023	-0.12	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	0mm	Ant 3+4(4)	4	122	5610	15.77	17.00	1.327	97.76	1.023	-0.12	0.270	0.367
127	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	0mm	Ant 3+4(3)	4	122	5610	15.93	17.00	1.279	97.76	1.023	-0.08	0.192	0.251



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	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	0mm	Ant 3+4(4)	4	122	5610	15.77	17.00	1.327	97.76	1.023	-0.08	0.317	0.430
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(3)	3	171	5855	19.16	19.50	1.081	97.76	1.023	0.07	1.280	1.416
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(4)	3	171	5855	19.33	19.50	1.040	97.76	1.023	0.07	1.550	1.649
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(3)	3	171	5855	19.16	19.50	1.081	97.76	1.023	0.07	0.409	0.452
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(4)	3	171	5855	19.33	19.50	1.040	97.76	1.023	0.07	0.177	0.188
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(3)	3	171	5855	19.16	19.50	1.081	97.76	1.023	-0.16	1.840	2.036
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(4)	3	171	5855	19.33	19.50	1.040	97.76	1.023	-0.16	0.001	0.001
123	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 3+4(3)	3	167	5835	19.36	19.50	1.033	99.03	1.010	0	2.670	2.785
	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 3+4(4)	3	167	5835	19.38	19.50	1.028	99.03	1.010	0	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	0mm	Ant 3+4(3)	3	171	5855	19.16	19.50	1.081	97.76	1.023	-0.1	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	0mm	Ant 3+4(4)	3	171	5855	19.33	19.50	1.040	97.76	1.023	-0.1	0.804	0.855
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	0mm	Ant 3+4(3)	3	171	5855	19.16	19.50	1.081	97.76	1.023	-0.02	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	0mm	Ant 3+4(4)	3	171	5855	19.33	19.50	1.040	97.76	1.023	-0.02	0.413	0.439
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(3)	4	171	5855	17.97	18.00	1.007	97.76	1.023	0.09	0.926	0.954
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 3+4(4)	4	171	5855	17.85	18.00	1.035	97.76	1.023	0.09	1.190	1.260
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(3)	4	171	5855	17.97	18.00	1.007	97.76	1.023	-0.14	0.282	0.290
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 3+4(4)	4	171	5855	17.85	18.00	1.035	97.76	1.023	-0.14	0.107	0.113
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(3)	4	171	5855	17.97	18.00	1.007	97.76	1.023	-0.08	1.480	1.525
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(4)	4	171	5855	17.85	18.00	1.035	97.76	1.023	-0.08	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	0mm	Ant 3+4(3)	4	171	5855	17.97	18.00	1.007	97.76	1.023	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Edge	0mm	Ant 3+4(4)	4	171	5855	17.85	18.00	1.035	97.76	1.023	-0.15	0.485	0.514
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	0mm	Ant 3+4(3)	4	171	5855	17.97	18.00	1.007	97.76	1.023	-0.09	0.274	0.282
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Edge	0mm	Ant 3+4(4)	4	171	5855	17.85	18.00	1.035	97.76	1.023	-0.09	0.274	0.290

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
124	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(3)	3	143	6665	14.84	16.00	1.306	95.24	1.050	0.08	0.266	0.365	6.33	8.681
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(4)	3	143	6665	14.59	16.00	1.384	95.24	1.050	0.08	0.272	0.395	6.61	9.603
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 3+4(3)	3	143	6665	14.84	16.00	1.306	95.24	1.050	0.06	0.061	0.084	1.44	1.975
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 3+4(4)	3	143	6665	14.59	16.00	1.384	95.24	1.050	0.06	0.103	0.150	2.42	3.516
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	3	143	6665	14.84	16.00	1.306	95.24	1.050	0.07	0.465	0.638	11	15.086
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	3	143	6665	14.59	16.00	1.384	95.24	1.050	0.07	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	3	15	6025	14.95	15.50	1.135	95.24	1.050	-0.07	0.459	0.547	10.7	12.752
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	3	15	6025	14.67	15.50	1.211	95.24	1.050	-0.07	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	3	47	6185	14.90	15.50	1.148	95.24	1.050	0.03	0.335	0.404	7.82	9.427
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	3	47	6185	14.42	15.50	1.282	95.24	1.050	0.03	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	3	111	6505	14.69	15.00	1.074	95.24	1.050	0.01	0.382	0.431	9.02	10.172
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	3	111	6505	14.42	15.00	1.143	95.24	1.050	0.01	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	3	207	6985	14.96	15.50	1.132	95.24	1.050	-0.07	0.495	0.589	11.7	13.912
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	3	207	6985	14.26	15.50	1.330	95.24	1.050	-0.07	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Right Edge	0mm	Ant 3+4(3)	3	143	6665	14.84	16.00	1.306	95.24	1.050	0.01	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Right Edge	0mm	Ant 3+4(4)	3	143	6665	14.59	16.00	1.384	95.24	1.050	0.01	0.117	0.170	2.71	3.937
	WLAN6GHz	802.11ax-HE160 MCS0	Top Edge	0mm	Ant 3+4(3)	3	143	6665	14.84	16.00	1.306	95.24	1.050	-0.07	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Top Edge	0mm	Ant 3+4(4)	3	143	6665	14.59	16.00	1.384	95.24	1.050	-0.07	0.184	0.267	4.43	6.436
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.08	0.266	0.365	6.33	8.681
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.08	0.272	0.395	6.61	9.603
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.06	0.061	0.084	1.44	1.975
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.06	0.103	0.150	2.42	3.516
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.07	0.465	0.638	11	15.086
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.07	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	4	15	6025	14.95	15.50	1.135	95.24	1.050	-0.07	0.459	0.547	10.7	12.752
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	4	15	6025	14.67	15.50	1.211	95.24	1.050	-0.07	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	4	47	6185	14.90	15.50	1.148	95.24	1.050	0.03	0.335	0.404	7.82	9.427
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	4	47	6185	14.42	15.50	1.282	95.24	1.050	0.03	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	4	111	6505	14.69	15.00	1.074	95.24	1.050	0.01	0.382	0.431	9.02	10.172
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	4	111	6505	14.42	15.00	1.143	95.24	1.050	0.01	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(3)	4	207	6985	14.96	15.50	1.132	95.24	1.050	-0.07	0.495	0.589	11.7	13.912
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	0mm	Ant 3+4(4)	4	207	6985	14.26	15.50	1.330	95.24	1.050	-0.07	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Right Edge	0mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.01	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Right Edge	0mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.01	0.117	0.170	2.71	3.937
	WLAN6GHz	802.11ax-HE160 MCS0	Top Edge	0mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	-0.07	0.001	0.001	0.001	0.001
	WLAN6GHz	802.11ax-HE160 MCS0	Top Edge	0mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	-0.07	0.184	0.267	4.43	6.436

<NFC SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Freq. (MHz)	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	NFC	ASK	Front	0mm	13.56	0	0.001	0.001
125	NFC	ASK	Back	0mm	13.56	0	0.018	0.018
	NFC	ASK	Left Edge	0mm	13.56	0	0.001	0.001
	NFC	ASK	Right Edge	0mm	13.56	0	0.001	0.001
	NFC	ASK	Top Edge	0mm	13.56	0	0.001	0.001

14.5 6GHz PD Test Result

Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (λ)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	15	6025	12.71	0.0625	2.35	1.509597742	1.62	2.72
WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	15	6025	12.71	0.25	1.66		0.448	0.481
WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	207	6985	14.96	0.0625	2.31	-0.62899281	3.53	4.41
WLAN6GHz	802.11ax-HE160 MCS0	Front	8.59mm	Ant 3+4(3)	207	6985	14.96	0.25	2.67		0.851	0.973

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (λ)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	1	15	6025	12.71	14.50	1.510	95.24	1.050	0.0625	1.5535	0.01	1.62	3.99	2.72	6.70
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	1	47	6185	13.14	14.50	1.368	95.24	1.050	0.0625	1.5535	-0.18	0.899	2.01	1.98	4.42
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	1	111	6505	14.69	15.00	1.074	95.24	1.050	0.0625	1.5535	-0.04	1.59	2.79	2.79	4.89
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	1	143	6665	14.60	15.50	1.230	95.24	1.050	0.0625	1.5535	-0.19	3.10	6.22	3.46	6.94
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	1	207	6985	14.96	15.00	1.009	95.24	1.050	0.0625	1.5535	0.14	3.53	5.81	4.41	7.26
	WLAN6GHz	802.11ax-HE160 MCS0	Front	10mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.0625	1.5535	-0.17	1.24	2.64	1.3	2.77
	WLAN6GHz	802.11ax-HE160 MCS0	Back	10mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.0625	1.5535	-0.06	0.635	1.43	0.775	1.75
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(3)	4	143	6665	14.84	16.00	1.306	95.24	1.050	0.0625	1.5535	-0.09	1.40	2.98	1.55	3.30
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(3)	4	15	6025	14.95	15.50	1.135	95.24	1.050	0.0625	1.5535	-0.13	1.24	2.30	1.64	3.04
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(3)	4	47	6185	14.90	15.50	1.148	95.24	1.050	0.0625	1.5535	0.12	1.07	2.00	1.23	2.30
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(3)	4	111	6505	14.69	15.00	1.074	95.24	1.050	0.0625	1.5535	-0.03	1.31	2.29	1.53	2.68
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	10mm	Ant 3+4(3)	4	207	6985	14.96	15.50	1.132	95.24	1.050	0.0625	1.5535	0.12	1.46	2.70	1.59	2.94
	WLAN6GHz	802.11ax-HE160 MCS0	Right Edge	10mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.0625	1.5535	0.15	0.632	1.43	0.677	1.53
	WLAN6GHz	802.11ax-HE160 MCS0	Top Edge	10mm	Ant 3+4(4)	4	143	6665	14.59	16.00	1.384	95.24	1.050	0.0625	1.5535	0.11	0.459	1.04	0.67	1.51
	WLAN6GHz	802.11ax-HE160 MCS0	Front	2mm	Ant 3+4(3)	3	143	6665	14.84	16.00	1.306	95.24	1.050	0.0625	1.5535	-0.04	1.59	3.39	2.79	5.94
	WLAN6GHz	802.11ax-HE160 MCS0	Back	2mm	Ant 3+4(3)	3	143	6665	14.84	16.00	1.306	95.24	1.050	0.0625	1.5535	0.17	0.99	2.11	1.23	2.62
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	2mm	Ant 3+4(3)	3	143	6665	14.84	16.00	1.306	95.24	1.050	0.0625	1.5535	-0.07	2.37	5.05	3.48	7.41
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	2mm	Ant 3+4(3)	3	15	6025	14.95	15.50	1.135	95.24	1.050	0.0625	1.5535	0.03	2.11	3.91	3.95	7.31
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	2mm	Ant 3+4(3)	3	47	6185	14.90	15.50	1.148	95.24	1.050	0.0625	1.5535	-0.01	1.32	2.47	2	3.75
	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	2mm	Ant 3+4(3)	3	111	6505	14.69	15.00	1.074	95.24	1.050	0.0625	1.5535	0.11	1.79	3.14	2.82	4.94
01	WLAN6GHz	802.11ax-HE160 MCS0	Left Edge	2mm	Ant 3+4(3)	3	207	6985	14.96	15.50	1.132	95.24	1.050	0.0625	1.5535	0.18	2.7	4.99	4.05	7.48
	WLAN6GHz	802.11ax-HE160 MCS0	Right Edge	2mm	Ant 3+4(4)	3	143	6665	14.59	16.00	1.384	95.24	1.050	0.0625	1.5535	-0.04	0.829	1.87	1.15	2.60
	WLAN6GHz	802.11ax-HE160 MCS0	Top Edge	2mm	Ant 3+4(4)	3	143	6665	14.59	16.00	1.384	95.24	1.050	0.0625	1.5535	0.03	1.3	2.93	1.56	3.52

14.6 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4233	846.6	21.33	22.00	1.167			0.02	0.805	-	0.939
2nd	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	2	4233	846.6	21.33	22.00	1.167			0.15	0.794	1.01	0.926
1st	LTE Band 13_Ant 1	10M_QPSK_1_0_	Right Cheek	0mm	2	23230	782	21.62	22.20	1.143			0.01	0.816	-	0.933
2nd	LTE Band 13_Ant 1	10M_QPSK_1_0_	Right Cheek	0mm	2	23230	782	21.62	22.20	1.143			0.14	0.802	1.02	0.917
1st	NTN B255_Ant 4	15K_BPSK_1_10_	Back	10mm	5	261505	1626.6	23.06	23.40	1.081	79	1.051	-0.1	0.838	-	0.952
2nd	NTN B255_Ant 4	15K_BPSK_1_10_	Back	10mm	5	261505	1626.6	23.06	23.40	1.081	79	1.051	0.15	0.805	1.04	0.915

No.	Band	Mode	Test Position	Gap (mm)	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	NTN B23_Ant 1	15K_BPSK_1_10	Left Edge	0mm	5	25501	2000.1	22.59	22.90	1.074	79	1.051	0.03	2.170	-	2.449
2nd	NTN B23_Ant 1	15K_BPSK_1_10	Left Edge	0mm	5	25501	2000.1	22.59	22.90	1.074	79	1.051	0	2.110	1.03	2.382
1st	NTN B255_Ant 4	15K_BPSK_1_10	Right Edge	0mm	5	261843	1660.4	22.76	23.40	1.159	79	1.051	0.08	2.040	-	2.484
2nd	NTN B255_Ant 4	15K_BPSK_1_10	Right Edge	0mm	5	261843	1660.4	22.76	23.40	1.159	79	1.051	0.11	1.980	1.02	2.411

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(3)	3	60	5300	18.75	19.50	1.189	99.48	1.005	0.01	2.330	-	2.783
	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(4)	3	60	5300	19.16	19.50	1.081	99.48	1.005	0.01	0.001		0.001
2nd	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(3)	3	60	5300	18.75	19.50	1.189	99.48	1.005	0.08	2.220	1.05	2.652
	WLAN5GHz	802.11n-HT20 MCS0	Left Edge	0mm	Ant 3+4(4)	3	60	5300	19.16	19.50	1.081	99.48	1.005	0.08	0.001		0.001
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(3)	3	122	5610	17.83	18.00	1.040	97.76	1.023	-0.1	2.560	-	2.723
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(4)	3	122	5610	17.87	18.00	1.030	97.76	1.023	-0.1	0.001		0.001
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(3)	3	122	5610	17.83	18.00	1.040	97.76	1.023	0.05	2.500	1.02	2.660
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Edge	0mm	Ant 3+4(4)	3	122	5610	17.87	18.00	1.030	97.76	1.023	0.05	0.001		0.001
1st	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 3+4(3)	3	167	5835	19.36	19.50	1.033	99.03	1.010	0	2.670	-	2.785
	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 3+4(4)	3	167	5835	19.38	19.50	1.028	99.03	1.010	0	0.001		0.001
2nd	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 3+4(3)	3	167	5835	19.36	19.50	1.033	99.03	1.010	-0.11	2.620	1.02	2.733
	WLAN5GHz	802.11n-HT40 MCS0	Left Edge	0mm	Ant 3+4(4)	3	167	5835	19.38	19.50	1.028	99.03	1.010	-0.11	0.001		0.001

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.

14.7 Power Class 2 and Power Class 3 Linearity

General Note:

This device support Power Class 2 and Power Class 3 operations. 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 and FR1 configuration and exposure condition combination, according to the highest time averaged power for 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, Separate SAR testing for Power Class 2 is not required. Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

<LTE Band 41 Linearity Data for Head>

	LTE Band 41_Ant 2	LTE Band 41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25	26.9
Reported 1g SAR (W/kg)	0.874	0.867
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	200.17	212.07
Linearity SAR(W/kg)	0.93	
% deviation from expected linearity		-6.37%

	LTE Band 41_Ant 0	LTE Band 41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24.6	26.5
Reported 1g SAR (W/kg)	0.132	0.129
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	182.56	193.41
Linearity SAR(W/kg)	0.14	
% deviation from expected linearity		-7.76%

<LTE Band 41 Linearity Data for Hotspot>

	LTE Band 41_Ant 2	LTE Band 41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.5	25.1
Reported 1g SAR (W/kg)	0.686	0.631
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	141.71	140.12
Linearity SAR(W/kg)	0.68	
% deviation from expected linearity		-6.97%

	LTE Band 41_Ant 0	LTE Band 41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.1	22.7
Reported 1g SAR (W/kg)	0.756	0.719
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	81.55	80.63
Linearity SAR(W/kg)	0.75	
% deviation from expected linearity		-3.81%

<LTE Band 41 Linearity Data for Body-worn>

	LTE Band 41_Ant 2	LTE Band 41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24.2	25.8
Reported 1g SAR (W/kg)	0.601	0.562
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	166.50	164.62
Linearity SAR(W/kg)	0.59	
% deviation from expected linearity		-5.42%

	LTE Band 41_Ant 0	LTE Band 41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.8	25.4
Reported 1g SAR (W/kg)	0.971	0.956
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	151.85	150.14
Linearity SAR(W/kg)	0.96	
% deviation from expected linearity		-0.42%

<LTE Band 41 Linearity Data for Product Specific>

	LTE Band 41_Ant 0	LTE Band 41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.8	25.4
Reported 10g SAR (W/kg)	2.498	2.462
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	151.85	150.14
Linearity SAR(W/kg)	2.47	
% deviation from expected linearity		-0.32%

<FR1 n41 Linearity Data for Head>

	FR1 n41_Ant 2	FR1 n41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.5	26.5
Reported 1g SAR (W/kg)	0.928	0.891
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	223.87	223.34
Linearity SAR(W/kg)	0.93	
% deviation from expected linearity		-3.76%

	FR1 n41_Ant 0	FR1 n41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24.6	26.5
Reported 1g SAR (W/kg)	0.274	0.203
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	288.40	223.34
Linearity SAR(W/kg)	0.21	
% deviation from expected linearity		-4.33%

	FR1 n41_Ant 1	FR1 n41_Ant 1
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	14.70	17.7
Reported 1g SAR (W/kg)	0.865	0.812
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	29.51	29.44
Linearity SAR(W/kg)	0.86	
% deviation from expected linearity		-5.90%

	FR1 n41_Ant 5	FR1 n41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	18.4	21.4
Reported 1g SAR (W/kg)	0.903	0.888
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	69.18	69.02
Linearity SAR(W/kg)	0.90	
% deviation from expected linearity		-1.43%

<FR1 n41 Linearity Data for Hotspot>

	FR1 n41_Ant 2	FR1 n41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.5	24.5
Reported 1g SAR (W/kg)	0.745	0.707
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	140.92
Linearity SAR(W/kg)	0.74	
% deviation from expected linearity		-4.88%

	FR1 n41_Ant 0	FR1 n41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.6	22.6
Reported 1g SAR (W/kg)	0.824	0.786
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	91.20	90.99
Linearity SAR(W/kg)	0.82	
% deviation from expected linearity		-4.39%

	FR1 n41_Ant 1	FR1 n41_Ant 1
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.80	22.8
Reported 1g SAR (W/kg)	0.84	0.794
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	95.50	95.27
Linearity SAR(W/kg)	0.84	
% deviation from expected linearity		-5.25%

	FR1 n41_Ant 5	FR1 n41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.8	24.8
Reported 1g SAR (W/kg)	0.679	0.663
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	151.36	151.00
Linearity SAR(W/kg)	0.68	
% deviation from expected linearity		-2.12%

<FR1 n41 Linearity Data for Body-worn>

	FR1 n41_Ant 2	FR1 n41_Ant 2
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.2	25.2
Reported 1g SAR (W/kg)	0.657	0.592
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	165.96	165.57
Linearity SAR(W/kg)	0.66	
% deviation from expected linearity		-9.68%

	FR1 n41_Ant 0	FR1 n41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.7	24.7
Reported 1g SAR (W/kg)	0.946	0.863
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	147.91	147.56
Linearity SAR(W/kg)	0.94	
% deviation from expected linearity		-8.56%

	FR1 n41_Ant 1	FR1 n41_Ant 1
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	20.80	23.80
Reported 1g SAR (W/kg)	0.962	0.875
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	120.23	119.94
Linearity SAR(W/kg)	0.96	
% deviation from expected linearity		-8.83%

	FR1 n41_Ant 5	FR1 n41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.3	26.3
Reported 1g SAR (W/kg)	0.661	0.616
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	213.80	213.29
Linearity SAR(W/kg)	0.66	
% deviation from expected linearity		-6.59%

< FR1 n41 Linearity Data for Product Specific>

	FR1 n41_Ant 0	FR1 n41_Ant 0
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.7	24.7
Reported 10g SAR (W/kg)	2.283	2.051
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	147.91	147.56
Linearity SAR(W/kg)	2.28	
% deviation from expected linearity		-9.95%

<FR1 n77 Linearity Data for Head>

	FR1 n77_Ant 6	FR1 n77_Ant 6
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.4	26.4
Reported 1g SAR (W/kg)	0.468	0.438
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	218.78	218.26
Linearity SAR(W/kg)	0.47	
% deviation from expected linearity		-6.19%

	FR1 n77_Ant 7	FR1 n77_Ant 7
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24.7	26.5
Reported 1g SAR (W/kg)	0.81	0.605
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	295.12	223.34
Linearity SAR(W/kg)	0.61	
% deviation from expected linearity		-1.30%

	FR1 n77_Ant 1	FR1 n77_Ant 1
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	15.70	18.70
Reported 1g SAR (W/kg)	0.935	0.889
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	37.15	37.07
Linearity SAR(W/kg)	0.93	
% deviation from expected linearity		-4.69%

	FR1 n77_Ant 5	FR1 n77_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	16.8	19.8
Reported 1g SAR (W/kg)	0.571	0.525
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	47.86	47.75
Linearity SAR(W/kg)	0.57	
% deviation from expected linearity		-7.84%

<FR1 n77 Linearity Data for Hotspot>

	FR1 n77_Ant 6	FR1 n77_Ant 6
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	18.7	21.7
Reported 1g SAR (W/kg)	0.694	0.647
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	74.13	73.96
Linearity SAR(W/kg)	0.69	
% deviation from expected linearity		-6.55%

	FR1 n77_Ant 7	FR1 n77_Ant 7
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	18.9	21.7
Reported 1g SAR (W/kg)	0.604	0.558
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	77.62	73.96
Linearity SAR(W/kg)	0.58	
% deviation from expected linearity		-3.03%

	FR1 n77_Ant 1	FR1 n77_Ant 1
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	18.30	21.30
Reported 1g SAR (W/kg)	0.489	0.48
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	67.61	67.45
Linearity SAR(W/kg)	0.49	
% deviation from expected linearity		-1.61%

	FR1 n77_Ant 5	FR1 n77_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.70	24.70
Reported 1g SAR (W/kg)	0.377	0.35
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	147.91	147.56
Linearity SAR(W/kg)	0.38	
% deviation from expected linearity		-6.94%

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	FR1 n77_Ant 6	FR1 n77_Ant 6
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.4	22.4
Reported 1g SAR (W/kg)	0.614	0.578
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	87.10	86.89
Linearity SAR(W/kg)	0.61	
% deviation from expected linearity		-5.64%

	FR1 n77_Ant 7	FR1 n77_Ant 7
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.6	22.4
Reported 1g SAR (W/kg)	0.421	0.385
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	91.20	86.89
Linearity SAR(W/kg)	0.40	
% deviation from expected linearity		-4.01%

	FR1 n77_Ant 1	FR1 n77_Ant 1
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	19.80	22.80
Reported 1g SAR (W/kg)	0.451	0.422
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	95.50	95.27
Linearity SAR(W/kg)	0.45	
% deviation from expected linearity		-6.21%

	FR1 n77_Ant 5	FR1 n77_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.40	25.40
Reported 1g SAR (W/kg)	0.36	0.324
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	173.78	173.37
Linearity SAR(W/kg)	0.36	
% deviation from expected linearity		-9.79%

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15. 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 ≤ 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/√3	1/√6	1/√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%

Applicable for Power Density Measurements:

Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response (BW ≤ 1 GHz)	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependance	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dependent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					2.68

16. References

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- [16] SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)