



FCC SAR TEST REPORT

FCC ID : MSQI005D
Equipment : ASUS Phone(Mobile Phone)
Brand Name : ASUS
Model Name : ASUS_I005D
ASUS_I005DC
Applicant : ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Manufacturer 1 : Guangdong Enok Communication Co., Ltd.
No. 137, 139, Lixiang Road., Songmushan Village, Dalang
Town, Dongguan City, Guangdong Province, China
Manufacturer 2 : PT. SAT NUSAPERSADA TBK
JALAN PELITA VI. NO. 99, BATAM, 29443,INDONESIA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Dec. 30, 2020 and testing was started from Jan. 06, 2021 and completed on Feb. 05, 2021. 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Cona Huang / Deputy Manager



SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FA082114A	01	Initial issue of report	Feb. 10, 2021



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for ASUSTeK COMPUTER INC., ASUS Phone(Mobile Phone), ASUS_I005D, ASUS_I005DC 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 15mm)	Hotspot (Separation 10mm)	Product Specific (Separation 0mm)		
		1g SAR (W/kg)			10g SAR (W/kg)		
Licensed	GSM850	1.12	0.79	0.65		1.59	3.84
	GSM1900	0.08	0.31	0.98	2.62		
	WCDMA II	0.11	0.46	0.92	3.08		
	WCDMA IV	0.16	0.41	0.97	3.37		
	WCDMA V	1.01	0.34	0.62			
	LTE Band 7	0.06	0.33	1.19	3.27		
	LTE Band 12 / 17	0.36	0.18	0.32			
	LTE Band 13	0.77	0.29	0.52			
	LTE Band 2 / 25	0.12	0.45	1.17	3.16		
	LTE Band 5 / 26	1.14	0.47	0.55			
	LTE Band 30	0.07	0.37	1.16	3.36		
	LTE Band 38 / 41	0.04	0.37	0.99			
	LTE Band 42 / 48	0.99	0.21	0.48			
	LTE Band 4 / 66	0.16	0.28	1.12	3.22		
	LTE Band 71	0.58	0.17	0.27			
	FR1 n5	1.06	0.18	0.36			
	FR1 n7	0.05	0.38	0.92			
	FR1 n12	0.54	0.22	0.42			
	FR1 n2 / n25	0.09	0.41	1.18	2.65		
	FR1 n38	0.98	0.28	0.93			
FR1 n41	1.17	0.26	1.15				
FR1 n66	0.04	0.16	0.93				
FR1 n71	0.25	0.24	0.36				
FR1 n77 / n78	1.17	0.23	0.59				
DTS	2.4GHz WLAN	0.68	0.19	0.40		1.59	
NII	5GHz WLAN	0.87	1.02	0.40	2.76	1.59	3.84
DSS	Bluetooth	0.31	0.07	0.10		1.58	
Date of Testing:		2021/01/06 ~ 2021/2/9					

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications

Reviewed by: Jason Wang
Report Producer: Daisy Peng



2. Equipment Under Test (EUT) Information

2.1 General Information

Product Feature & Specification	
Equipment Name	ASUS Phone(Mobile Phone)
Brand Name	ASUS
Model Name	ASUS_I005D ASUS_I005DC
FCC ID	MSQI005D
Wireless Technology and Frequency Range	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 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 42: 3550 MHz ~ 3600 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 n25: 1850 MHz ~ 1915 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz WLAN U-NII 1: 5150 MHz ~ 5250 MHz WLAN U-NII 2: 5250 MHz ~ 5350 MHz WLAN U-NII 3: 5470 MHz ~ 5725 MHz WLAN U-NII 4: 5725 MHz ~ 5825 MHz WLAN U-NII 5: 5925 MHz ~ 6425 MHz WLAN U-NII 6: 6425 MHz ~ 6525 MHz WLAN U-NII 7: 6525 MHz ~ 6875 MHz WLAN U-NII 8: 6875 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, 64QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC: ASK
HW Version	R2.0B
SW Version	Android R
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.



Sample Information		
Model Name	ASUS_I005D	ASUS_I005DC
SKU	SKU1	SKU2
	UE2S3	UE2S2
High-end or Entry Level (Back cover CN or WW)	High-end WW (Etching + Black) PMOLED	High-end CN (Etching + Black) Light guide plate
PCB Manufacturer	COMPEQ	COMPEQ
Front Landscape 24M (Brand/Model name)	TRIPLEWIN/CASF0-000A	LUXVISIONS/0BFO01P3
Rear CAM 64M+13M (Brand/Model name)	PRIMAX/50-704JHASC8	PRIMAX/50-704JHASC8
Rear CAM 8M (Brand/Model name)	TSPRECISSION/O5F9323 VERA1	TSPRECISSION/O5F9323 VERA1
BATT (Brand/Model name)	SCUD/C21P2001	SCUD/C21P2001
CPU (Brand/Model name)	QUALCOMM/ SM-8350-1-MPSP1393-TR-00-0-AB	QUALCOMM/ SM-8350-1-MPSP1393-TR-00-0-AB
DDR	12G	12G
Brand/Model name	Micron/MT62F1536M64D8CH-031WT:A	Micron/MT62F1536M64D8CH-031WT:A
UFS	512G	256G
Brand/Model name	Micron/MTFC512GARATAM-WT	Samsung/KLUEG8UHDC-B0E1

Remark:

- The Sku1 and Sku2 only front Landscape and UFS are difference, RF exposure is selected Sku1 to be tested

Specification of Accessory		
AC Adapter	Brand Name	ROG
	Model Name	A320R-200325C-US
Battery	Brand Name	ASUS
	Model Name	C21P2001
USB Cable 1	Brand Name	ASUS
	Model Name	LA9UC007-CS-R
USB Cable 2	Brand Name	ASUS
	Model Name	LQ109006
Bumper	Brand Name	WISTEC ELECTRONIC
	Model Name	201223003
AeroActive Cooler 1	Brand Name	ASUS
	Model Name	I005
AeroActive Cooler 2	Brand Name	ASUS
	Model Name	I005
AeroActive Cooler 3	Brand Name	ASUS
	Model Name	I005
AeroActive Cooler 4	Brand Name	ASUS
	Model Name	I005

Remark:

- The device support additional accessories of AeroActive cooler, this accessory will attach the device to do spot check worst case to ensure the RF Exposures compliance.

2.2 Maximum Tune-up Limit

Antenna configuration		
Mode	Support transmit antenna and band	Detection mechanism
Portrait Mode	ANT0: GSM850, UMTS V, LTE B5/B12/B13/B17/B26/B71, NR n5/n12/n71 ANT1: GSM1900, UMTS II/IV, LTE B2/B4/B7/B25/B30/B66/B38/B41, NR n2/n7/n25/n66/n41 ANT2: GSM850, UMTS V, LTE B5/B12/B13/B17/B26/B71, NR n5/n12/n71 ANT3: NR n41 ANT8: LTE B66 ANT9: LTE B42/B48, NR n38/n41/n77/n78/n41 ANT11: LTE B42/B48, NR n38/n41/n77/n78/n41	When the device detect audio receiver is active and the device is Upright
Landscape Mode	ANT0: GSM850, UMTS V, LTE B5/B12/B13/B17/B26/B71, NR n5/n12/n71 ANT1: LTE B66 ANT2: GSM850, UMTS V, LTE B5/B12/B13/B17/B26/B71, NR n5/n12/n71 ANT3: NR n41 ANT8: GSM1900, UMTS II/IV, LTE B2/B4/B7/B25/B30/B66/B38/B41, NR n2/n7/n25/n66/n41 ANT9: LTE B42/B48, NR n38/n41/n77/n78/n41 ANT11: LTE B42/B48, NR n38/n41/n77/n78/n41	When the device is lying

Antenna configuration		
Mode	Support transmit antenna and band	Detection mechanism
Normal mode	ANT4: WLAN/Bluetooth ANT5: WLAN/Bluetooth	When the device detect audio receiver is active or device is turn on
Camera mode	ANT6: WLAN/Bluetooth ANT5: WLAN/Bluetooth	When the device turn on the camera

Remark:

1. Because of WWAN antenna performance would be affected and detuned by the various user interactions. So that we define two modes to satisfy and cover which are used in daily life mostly to the end-user, one is "Portrait mode" another is "Landscape Mode", the detail mechanism include in the operational description.
2. When the device is turn on or the user is calling the WWAN transmitter will be into "Portrait mode" and WiFi into "normal mode"
3. When the device into "Landscape Mode" or "turn on the camera function" the WWAN antenna and WiFi antenna will be switch to another transmit antenna and list as above
4. For each cellular band, the device has several WWAN antennas, the antenna selection is based on the connection quality condition, and only one antenna will transmit at a time. Except for inter-band CA, EN-DC and 5G FR1 UL MIMO mode is active
5. The device implements the power management control different exposure conditions (head, body-worn, hotspot, extremity) output power states, the device will manage to ensure the power level not exceeding the associated below power state table. Details about the power management decision are provided in the operational description.



Output Power State description:

WWAN Trantmitter:

Portrait Mode:

- State 1:** When the WWAN is transmitting on head condition in standalone mode
- State 2:** When WWAN is transmitted simultaneously on head with other radios.
- State 3:** When the WWAN is transmitting and Hotspot function is active
- State 4:** When the WWAN is transmitting on Body-wron or Extremity condition in standalone mode
- State 5:** When the WWAN is transmitted simultaneously on Body-wron or Extremity condition with other radios
- State 6:** When the EN-DC is active on head condition
- State 7:** When the EN-DC is active on head condition and transmitted simultaneously with WLAN
- State 8:** When the EN-DC is active and hotspot function is acitve
- State 9:** When the EN-DC is active on Body-wron or Extremity condition
- State 10:** When the EN-DC is active on Body-wron or Extremity condition and transmitted simultaneously with WLAN

Landscape Mode:

- State 3:** When the WWAN is transmitting and Hotspot function is active
- State 4:** When the WWAN is transmitting on Body-wron or Extremity condition in standalone mode
- State 5:** When the WWAN is transmitted simultaneously on Body-wron or Extremity condition with other radios
- State 8:** When the EN-DC is active and hotspot function is acitve
- State 9:** When the EN-DC is active on Body-wron or Extremity condition
- State 10:** When the EN-DC is active on Body-wron or Extremity condition and transmitted simultaneously with WLAN

WLAN/WiFi 6E Trantmitter:

Normal Mode:

- State 1:** When the WLAN is transmitting on head condition in standalone mode
- State 2:** When WLAN is transmitted simultaneously on head with other radios.
- State 3:** When the WLAN is transmitting and Hotspot function is active
- State 4:** When the WLAN is transmitting on Body-wron or Extremity condition in standalone mode or transmitted simultaneously on Body-wron or Extremity condition with other radios

Camera Mode:

- State 5:** When the WLAN is transmitting and Hotspot function is active
- State 6:** When the WLAN is transmitting on Body-wron or Extremity condition in standalone mode or transmitted simultaneously on Body-wron or Extremity condition with other radios

Bluetooth Trantmitter:

Normal Mode:

- State 1:** When the Bluetooth is transmitting on head condition in standalone mode
- State 2:** When Bluetooth is transmitted simultaneously on head with other radios.
- State 3:** When the Bluetooth is transmitting and Hotspot function is active
- State 4:** When the Bluetooth is transmitting on Body-wron or Extremity condition in standalone mode or transmitted simultaneously on Body-wron or Extremity condition with other radios

Camera Mode:

- State 5:** When the Bluetooth is transmitting and Hotspot function is active
- State 6:** When the Bluetooth is transmitting on Body-wron or Extremity condition in standalone mode or transmitted simultaneously on Body-wron or Extremity condition with other radios



WWAN Output Power State

Portrait Mode				Maximum Transmit Power Level (dBm)				
Radio Tech	Band Number	Antenna name	Default	State 1	State 2	State 3	State 4	State 5
				Head Standalone	Head Simultaneous	Hotspot Simultaneous	Body Worn & Extremity Standalone	Body Worn & Extremity Simultaneous
GSM/GPRS 1TX	850	ANT0	34.5	34.5	34.5	32	34.5	31.5
GPRS2TX	850	ANT0	34.5	34.5	34.5	32	34.5	31.5
EGPRS 1TX	850	ANT0	27.5	27.5	27.5	27.5	27.5	27.5
EGPRS 2TX	850	ANT0	27.5	27.5	27.5	27.5	27.5	27.5
GSM/GPRS 1TX	850	ANT2	34.5	32.0	29.5	34.5	34.5	34.5
GPRS2TX	850	ANT2	34.5	32.0	29.5	34.5	34.5	34.5
EGPRS 1TX	850	ANT2	27.5	27.5	27.5	27.5	27.5	27.5
EGPRS 2TX	850	ANT2	27.5	27.5	27.5	27.5	27.5	27.5
GSM/GPRS 1TX	1900	ANT1	31.5	31.5	31.5	29.5	31.5	31.5
GPRS2TX	1900	ANT1	31.5	31.5	31.5	29.5	31.5	31.5
EGPRS 1TX	1900	ANT1	25.5	25.5	25.5	25.5	25.5	25.5
EGPRS 2TX	1900	ANT1	25.5	25.5	25.5	25.5	25.5	25.5
WCDMA AMR/RMC	B2	ANT1	25.5	25.5	25.5	23	25.5	25
WCDMA HSDPA/HSPA	B2	ANT1	24.5	24.5	24.5	22	24.5	24
WCDMA AMR/RMC	B4	ANT1	25.5	25.5	25.5	24.5	25	25
WCDMA HSDPA/HSPA	B4	ANT1	24.5	24.5	24.5	23.5	24	24
WCDMA AMR/RMC	B5	ANT0	25.5	25.5	25.5	25.5	25.5	25.5
WCDMA HSDPA/HSPA	B5	ANT0	24.5	24.5	24.5	24.5	24.5	24.5
WCDMA AMR/RMC	B5	ANT2	25.5	25.0	22.5	25.5	25.5	25.5
WCDMA HSDPA/HSPA	B5	ANT2	24.5	24.0	21.5	24.5	24.5	24.5
LTE	B2	ANT1	25.5	25.5	25.5	23	25.5	25
LTE	B4	ANT1	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B5	ANT0	25.5	25.5	25.5	25.5	25.5	25
LTE	CA_5B	ANT0	25.5	25.5	25.5	25.5	25.5	25
LTE	B5	ANT2	25.5	25.0	22.5	25.5	25.5	25.5
LTE	CA_5B	ANT2	25.5	25.0	22.5	25.5	25.5	25.5
LTE	B7	ANT1	25.5	25.5	25.5	24	23.5	23.5
LTE	CA_7C	ANT1	25.5	25.5	25.5	24	23.5	23.5
LTE	B12	ANT0	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B12	ANT2	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B13	ANT0	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B13	ANT2	25.5	25.5	25.0	25.5	25.5	25.5
LTE	B17	ANT0	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B17	ANT2	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B25	ANT1	25.5	25.5	25.5	23	25.5	25
LTE	B26	ANT0	25.5	25.5	25.5	25.5	25.5	25
LTE	B26	ANT2	25.5	25.0	22.5	25.5	25.5	25.5
LTE	B30	ANT1	25.5	25.5	25.5	23.5	25	25
LTE	B38	ANT1	25.5	25.5	25.5	25.5	25.5	25.5
LTE	CA_38C	ANT1	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B41	ANT1	25.5	25.5	25.5	25.5	25.5	25.5
LTE	CA_41C	ANT1	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B42	ANT9	22.0	22.0	20.5	22	22	22
LTE	B42	ANT11	22.0	22.0	22.0	22	22	22
LTE	B48	ANT9	22.0	22.0	20.5	22	22	22
LTE	B48	ANT11	22.0	22.0	22.0	22	22	22
LTE	B66	ANT1	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B71	ANT0	25.5	25.5	25.5	25.5	25.5	25.5



LTE	B71	ANT2	25.5	25.5	25.5	25.5	25.5	25.5
5G FR1	n2	ANT1	24.5	24.5	24.5	23.5	24.5	24.5
5G FR1	n5	ANT0	24.5	24.5	24.5	24.5	24.5	24.5
5G FR1	n5	ANT2	24.5	24.5	22.5	24.5	24.5	24.5
5G FR1	n7	ANT1	24.5	24.5	24.5	23.5	24.5	24.5
5G FR1	n12	ANT0	24.5	24.5	24.5	24.5	24.5	24.5
5G FR1	n12	ANT2	24.5	24.5	24.5	24.5	24.5	24.5
5G FR1	n25	ANT1	24.5	24.5	24.5	23.5	24.5	24.5
5G FR1	n38	ANT9	24.5	21.5	18	24.5	24.5	24.5
5G FR1	n38	ANT11	24.5	24.5	24.5	23.5	24.5	24.5
5G FR1	n41	ANT9	24.0	20	17.5	24	24	24
5G FR1	n41	ANT11	24.0	24	24	23.5	24	24
5G FR1	n41_UL MIMO	ANT1	21.5	19.5	16	21.5	21.5	21.5
5G FR1	n41_UL MIMO	ANT3	21.5	19.5	16	21.5	21.5	21.5
5G FR1	n41_UL MIMO	ANT9	21.5	19.5	16	21.5	21.5	21.5
5G FR1	n41_UL MIMO	ANT11	21.5	19.5	16	21.5	21.5	21.5
5G FR1	n66	ANT1	24.5	24.5	24.5	24.5	24.5	24.5
5G FR1	n71	ANT0	24.5	24.5	24.5	24.5	24.5	24.5
5G FR1	n71	ANT2	24.5	24.5	24.5	24.5	24.5	24.5
5G FR1	n77	ANT9	22.0	22	20	22	22	22
5G FR1	n77	ANT11	22.0	22	22	22	22	22
5G FR1	n78	ANT9	22.0	22	20	22	22	22
5G FR1	n78	ANT11	22.0	22	22	22	22	22



Landscape Mode				Maximum Transmit Power Level (dBm)				
Radio Tech	Band Number	Antenna name	Default	State 1	State 2	State 3	State 4	State 5
				Head Standalone	Head Simultaneous	Hotspot Simultaneous	Body Worn & Extremity Standalone	Body Worn & Extremity Simultaneous
GSM/GPRS 1TX	850	ANT0	34.5			32	31.5	31.5
GPRS2TX	850	ANT0	34.5			32	31.5	31.5
EGPRS 1TX	850	ANT0	27.5			27.5	27.5	27.5
EGPRS 2TX	850	ANT0	27.5			27.5	27.5	27.5
GSM/GPRS 1TX	850	ANT2	34.5			34.5	34.5	34.5
GPRS2TX	850	ANT2	34.5			34.5	34.5	34.5
EGPRS 1TX	850	ANT2	27.5			27.5	27.5	27.5
EGPRS 2TX	850	ANT2	27.5			27.5	27.5	27.5
GSM/GPRS 1TX	1900	ANT8	31.5			31.5	31.5	31.5
GPRS2TX	1900	ANT8	31.5			31.5	31.5	31.5
EGPRS 1TX	1900	ANT8	25.5			25.5	25.5	25.5
EGPRS 2TX	1900	ANT8	25.5			25.5	25.5	25.5
WCDMA AMR/RMC	B2	ANT8	25.5			23.5	25	25
WCDMA HSDPA/HSPA	B2	ANT8	24.5			22.5	24	24
WCDMA AMR/RMC	B4	ANT8	25.5			25.5	25.5	25.5
WCDMA HSDPA/HSPA	B4	ANT8	24.5			24.5	24.5	24.5
WCDMA AMR/RMC	B5	ANT0	25.5			25.5	25.5	25.5
WCDMA HSDPA/HSPA	B5	ANT0	24.5			24.5	24.5	24.5
WCDMA AMR/RMC	B5	ANT2	25.5			25.5	25.5	25.5
WCDMA HSDPA/HSPA	B5	ANT2	24.5			24.5	24.5	24.5
LTE	B2	ANT8	25.5			24	25.5	25.5
LTE	B4	ANT8	25.5			25	24.5	24.5
LTE	B5	ANT0	25.5			25.5	25	25
LTE	CA_5B	ANT0	25.5			25.5	25	25
LTE	B5	ANT2	25.5			25.5	25.5	25.5
LTE	CA_5B	ANT2	25.5			25.5	25.5	25.5
LTE	B7	ANT8	25.5			24.5	25.5	25.5
LTE	CA_7C	ANT8	25.5			24.5	25.5	25.5
LTE	B12	ANT0	25.5			25.5	25.5	25.5
LTE	B12	ANT2	25.5			25.5	25.5	25.5
LTE	B13	ANT0	25.5			25.5	25.5	25.5
LTE	B13	ANT2	25.5			25.5	25.5	25.5
LTE	B17	ANT0	25.5			25.5	25.5	25.5
LTE	B17	ANT2	25.5			25.5	25.5	25.5
LTE	B25	ANT8	25.5			24	25.5	25.5
LTE	B26	ANT0	25.5			25.5	25	25
LTE	B26	ANT2	25.5			25.5	25.5	25.5
LTE	B30	ANT8	25.5			25.5	25.5	25.5
LTE	B38	ANT8	25.5			25.5	25.5	25.5
LTE	CA_38C	ANT8	25.5			25.5	25.5	25.5
LTE	B41	ANT8	25.5			25.5	25.5	25.5
LTE	CA_41C	ANT8	25.5			25.5	25.5	25.5
LTE	B42	ANT9	22.0			22	22	22
LTE	B42	ANT11	22.0			22	22	22
LTE	B48	ANT9	22.0			22	22	22
LTE	B48	ANT11	22.0			22	22	22
LTE	B66	ANT8	25.5			25	24.5	24.5
LTE	B71	ANT0	25.5			25.5	25.5	25.5
LTE	B71	ANT2	25.5			25.5	25.5	25.5
5G FR1	n2	ANT8	24.5			24	24.5	24.5
5G FR1	n5	ANT0	24.5			24.5	24.5	24.5
5G FR1	n5	ANT2	24.5			24.5	24.5	24.5



5G FR1	n7	ANT8	24.5			24.5	24.5	24.5
5G FR1	n12	ANT0	24.5			24.5	24.5	24.5
5G FR1	n12	ANT2	24.5			24.5	24.5	24.5
5G FR1	n25	ANT8	24.5			24	24.5	24.5
5G FR1	n38	ANT9	24.5			24.5	24.5	24.5
5G FR1	n38	ANT11	24.5			23.5	24.5	24.5
5G FR1	n41	ANT9	24.0			24	24	24
5G FR1	n41	ANT11	24.0			23.5	24	24
5G FR1	n41_UL MIMO	ANT8	21.5			21.5	21.5	21.5
5G FR1	n41_UL MIMO	ANT3	21.5			21.5	21.5	21.5
5G FR1	n41_UL MIMO	ANT9	21.5			21.5	21.5	21.5
5G FR1	n41_UL MIMO	ANT11	21.5			21.5	21.5	21.5
5G FR1	n66	ANT8	24.5			24.5	24.5	24.5
5G FR1	n71	ANT0	24.5			24.5	24.5	24.5
5G FR1	n71	ANT2	24.5			24.5	24.5	24.5
5G FR1	n77	ANT9	22.0			22	22	22
5G FR1	n77	ANT11	22.0			22	22	22
5G FR1	n78	ANT9	22.0			22	22	22
5G FR1	n78	ANT11	22.0			22	22	22



Portrait Mode				Maximum Transmit Power Level (dBm)				
Radio Tech	Band Number	Antenna name	Default	State 6	State 7	State 8	State 9	State 10
				Head EN-DC Active	Head EN-DC+WLAN	Hotspot EN-DC+WLAN	Body Worn & Extremity EN-DC Active	Body Worn & Extremity EN-DC+WLAN
LTE	B2	ANT1	25.5	25.5	25.5	19	25	22
LTE	B4	ANT1	25.5	25.5	25.5	24	25.5	24
LTE	B5	ANT0	25.5	25.5	25.5	23	25	21.5
LTE	B5	ANT2	25.5	22.5	19.5	25.5	25.5	25.5
LTE	B7	ANT1	25.5	25.5	25.5	20.5	23.5	22.5
LTE	B12	ANT0	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B12	ANT2	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B13	ANT0	25.5	25.5	25.5	23.5	25.5	24
LTE	B13	ANT2	25.5	25	22	25.5	25.5	25.5
LTE	B38	ANT1	25.5	25.5	25.5	22.5	25.5	23
LTE	B41	ANT1	25.5	25.5	25.5	22.5	25.5	23
LTE	B66	ANT1	25.5	25.5	25.5	24	25.5	24
LTE	B66_EN-DC	ANT8	24.5	24.5	24.5	20	24.5	24.5
LTE	B71	ANT0	25.5	25.5	25.5	25.5	25.5	25.5
LTE	B71	ANT2	25.5	25.5	23	25.5	25.5	25.5
5G FR1	n2	ANT1	24.5	24.5	24.5	19	24.5	21
5G FR1	n5	ANT0	24.5	24.5	24.5	24.5	24.5	24.5
5G FR1	n5	ANT2	24.5	22.5	22	24.5	24.5	24.5
5G FR1	n7	ANT1	24.5	24.5	24.5	20.5	24.5	21.5
5G FR1	n12	ANT0	24.5	24.5	24.5	24	24.5	24
5G FR1	n12	ANT2	24.5	24.5	24.5	24.5	24.5	24.5
5G FR1	n25	ANT1	24.5	24.5	24.5	19	24.5	21
5G FR1	n38	ANT9	24.5	18	15.5	20	24.5	23
5G FR1	n38	ANT11	24.5	24.5	24.5	20.5	24.5	23
5G FR1	n41	ANT9	24.0	17.5	16.5	16.5	24	23
5G FR1	n41	ANT11	24.0	24	24	24	24	22.5
5G FR1	n66	ANT1	24.5	24.5	24.5	24	24.5	24.5
5G FR1	n71	ANT0	24.5	24.5	24.5	24.5	24.5	23.5
5G FR1	n71	ANT2	24.5	24.5	24.5	24.5	24.5	24.5
5G FR1	n77	ANT9	22.0	20	17	19.5	22	22
5G FR1	n77	ANT11	22.0	22	22	19.5	22	21
5G FR1	n78	ANT9	22.0	20	17	19.5	22	22
5G FR1	n78	ANT11	22.0	22	22	19.5	22	21



Landscape Mode				Maximum Transmit Power Level (dBm)				
Radio Tech	Band Number	Antenna name	Default	State 6	State 7	State 8	State 9	State 10
				Head EN-DC Active	Head EN-DC+WLAN	Hotspot EN-DC+WLAN	Body Worn & Extremity EN-DC Active	Body Worn & Extremity EN-DC+WLAN
LTE	B2	ANT8	25.5			18.5	23.5	23.5
LTE	B4	ANT8	25.5			20	24.5	24.5
LTE	B5	ANT0	25.5			23	21.5	21.5
LTE	B5	ANT2	25.5			25.5	25.5	25.5
LTE	B7	ANT8	25.5			19	23.5	23.5
LTE	B12	ANT0	25.5			25.5	25.5	25.5
LTE	B12	ANT2	25.5			25.5	25.5	25.5
LTE	B13	ANT0	25.5			23.5	24	24
LTE	B13	ANT2	25.5			25.5	25.5	25.5
LTE	B38	ANT8	25.5			21	25.5	25.5
LTE	B41	ANT8	25.5			21	25.5	25.5
LTE	B66	ANT8	25.5			20	24.5	24.5
LTE	B66_EN-DC	ANT1	24.5			24.5	24.5	24.5
LTE	B71	ANT0	25.5			25.5	25.5	25.5
LTE	B71	ANT2	25.5			25.5	25.5	25.5
5G FR1	n2	ANT8	24.5			20	23.5	23.5
5G FR1	n5	ANT0	24.5			24.5	24.5	24.5
5G FR1	n5	ANT2	24.5			24.5	24.5	24.5
5G FR1	n7	ANT8	24.5			22	24	24
5G FR1	n12	ANT0	24.5			24	24	24
5G FR1	n12	ANT2	24.5			24.5	24.5	24.5
5G FR1	n25	ANT8	24.5			20	23.5	23.5
5G FR1	n38	ANT9	24.5			20	23	23
5G FR1	n38	ANT11	24.5			20.5	23	23
5G FR1	n41	ANT9	24.0			16.5	23	23
5G FR1	n41	ANT11	24.0			24	22.5	22.5
5G FR1	n66	ANT8	24.5			22.5	24.5	24.5
5G FR1	n71	ANT0	24.5			24.5	23.5	23.5
5G FR1	n71	ANT2	24.5			24.5	24.5	24.5
5G FR1	n77	ANT9	22.0			19.5	22	22
5G FR1	n77	ANT11	22.0			19.5	21	21
5G FR1	n78	ANT9	22.0			19.5	22	22
5G FR1	n78	ANT11	22.0			19.5	21	21



WLAN Output Power State

<Power State 1>

<2.4GHz WLAN>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
	802.11b 1Mbps	1	2412	22.00	21.00	24.50
		6	2437	20.00	19.50	23.00
		11	2462	21.00	20.00	23.50
	802.11g 6Mbps	1	2412	19.00	18.50	22.00
		6	2437	22.00	22.00	25.00
		11	2462	18.50	18.00	21.50
	802.11n-HT20 MCS0	1	2412	19.00	18.50	22.00
		6	2437	22.00	22.00	25.00
		11	2462	18.50	18.00	21.50
802.11n-HT40 MCS0	3	2422	18.00	17.00	20.50	
	6	2437	22.00	21.50	25.00	
	9	2452	18.00	18.00	21.00	
802.11ac-VHT20 MCS0	1	2412	19.00	18.50	22.00	
	6	2437	22.00	22.00	25.00	
	11	2462	18.50	18.00	21.50	
802.11ac-VHT40 MCS0	3	2422	18.00	17.00	20.50	
	6	2437	22.00	21.50	25.00	
	9	2452	18.00	18.00	21.00	
802.11ax-HE20 MCS0	1	2412	19.00	18.50	22.00	
	6	2437	22.00	22.00	25.00	
	11	2462	18.50	18.00	21.50	
802.11ax-HE40 MCS0	3	2422	18.00	17.00	20.50	
	6	2437	22.00	21.50	25.00	
	9	2452	18.00	18.00	21.00	

<5GHz WLAN>

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
	802.11a 6Mbps	36	5180	18.50	18.00	21.50
		40	5200	18.50	18.00	21.50
		44	5220	18.50	18.50	21.50
		48	5240	19.00	18.50	22.00
	802.11n-HT20 MCS0	36	5180	18.50	18.00	21.50
		40	5200	18.50	18.00	21.50
		44	5220	18.50	18.00	21.50
	802.11n-HT40 MCS0	48	5240	18.50	18.00	21.50
		38	5190	19.00	18.50	22.00
802.11ac-VHT20 MCS0	46	5230	19.50	19.00	22.50	
	36	5180	18.50	18.00	21.50	
802.11ac-VHT40 MCS0	40	5200	18.50	18.00	21.50	
	44	5220	18.50	18.00	21.50	
	48	5240	18.50	18.00	21.50	
802.11ac-VHT80 MCS0	38	5190	19.00	18.50	22.00	
	46	5230	19.50	19.00	22.50	
802.11ax-HE20 MCS0	42	5210	19.00	18.50	22.00	
	36	5180	18.50	18.00	21.50	
		40	5200	18.50	18.00	21.50



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		44	5220	18.50	18.00	21.50
		48	5240	18.50	18.00	21.50
	802.11ax-HE40 MCS0	38	5190	19.00	18.50	22.00
		46	5230	19.50	19.00	22.50
	802.11ax-HE80 MCS0	42	5210	19.00	18.50	22.00



5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
	802.11a 6Mbps	52	5260	19.00	18.00	21.50
		56	5280	18.50	18.00	21.50
		60	5300	18.50	18.00	21.50
		64	5320	19.00	18.00	21.50
	802.11n-HT20 MCS0	52	5260	19.00	18.50	22.00
		56	5280	18.50	18.00	21.50
		60	5300	19.00	18.50	22.00
		64	5320	18.50	18.00	21.50
	802.11n-HT40 MCS0	54	5270	19.50	19.00	22.50
		62	5310	20.00	18.50	22.50
	802.11ac-VHT20 MCS0	52	5260	19.00	18.50	22.00
		56	5280	18.50	18.00	21.50
		60	5300	19.00	18.50	22.00
		64	5320	18.50	18.00	21.50
	802.11ac-VHT40 MCS0	54	5270	19.50	19.00	22.50
		62	5310	20.00	18.50	22.50
	802.11ac-VHT80 MCS0	58	5290	19.00	18.50	22.00
	802.11ax-HE20 MCS0	52	5260	19.00	18.50	22.00
		56	5280	18.50	18.00	21.50
60		5300	19.00	18.50	22.00	
64		5320	18.50	18.00	21.50	
802.11ax-HE40 MCS0	54	5270	19.50	19.00	22.50	
	62	5310	20.00	18.50	22.50	
802.11ax-HE80 MCS0	58	5290	19.00	18.50	22.00	
802.11ax-HE160 MCS0	50	5250	17.50	17.00	20.50	



5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
	802.11a 6Mbps	100	5500	18.50	18.00	21.50
		116	5580	18.50	18.00	21.50
		124	5620	18.50	18.00	21.50
		132	5660	18.50	17.50	21.00
		140	5700	19.00	17.50	21.50
	802.11n-HT20 MCS0	100	5500	18.50	18.00	21.50
		116	5580	18.50	18.00	21.50
		124	5620	18.50	18.00	21.50
		132	5660	18.50	17.50	21.00
		140	5700	19.00	17.50	21.50
	802.11n-HT40 MCS0	102	5510	20.00	19.00	22.50
		110	5550	20.00	19.50	23.00
		126	5630	20.00	19.00	22.50
	802.11ac-VHT20 MCS0	134	5670	20.00	18.50	22.50
		100	5500	18.50	18.00	21.50
		116	5580	18.50	18.00	21.50
		124	5620	18.50	18.00	21.50
	802.11ac-VHT40 MCS0	132	5660	18.50	17.50	21.00
140		5700	19.00	17.50	21.50	
102		5510	20.00	19.00	22.50	
110		5550	20.00	19.50	23.00	
802.11ac-VHT80 MCS0	126	5630	20.00	19.00	22.50	
	134	5670	20.00	18.50	22.50	
	106	5530	19.50	19.50	22.50	
802.11ax-HE20 MCS0	122	5610	19.50	19.50	22.50	
	100	5500	18.50	18.00	21.50	
	116	5580	18.50	18.00	21.50	
	124	5620	18.50	18.00	21.50	
	132	5660	18.50	17.50	21.00	
802.11ax-HE40 MCS0	140	5700	19.00	17.50	21.50	
	102	5510	20.00	19.00	22.50	
	110	5550	20.00	19.50	23.00	
	126	5630	20.00	19.00	22.50	
802.11ax-HE80 MCS0	134	5670	20.00	18.50	22.50	
	106	5530	19.50	19.50	22.50	
	122	5610	19.50	19.50	22.50	
802.11ax-HE160 MCS0	114	5570	19.00	19.00	22.00	



	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11n-HT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11n-HT40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ac-VHT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ac-VHT80 MCS0	155	5775	20.00	20.00	23.00
	802.11ax-HE20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11ax-HE40 MCS0	151	5755	20.00	20.00	23.00
159		5795	20.00	20.00	23.00	
802.11ax-HE80 MCS0	155	5775	20.00	20.00	23.00	



<Power State 2>

<2.4GHz WLAN>

	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.50	21.00	22.00
		6	2437	19.50	19.50	22.00
		11	2462	19.50	20.00	22.00
	802.11g 6Mbps	1	2412	19.00	18.50	22.00
		6	2437	19.50	22.00	22.00
		11	2462	18.50	18.00	21.50
	802.11n-HT20 MCS0	1	2412	19.00	18.50	22.00
		6	2437	19.50	22.00	22.00
		11	2462	18.50	18.00	21.50
	802.11n-HT40 MCS0	3	2422	18.00	17.00	20.50
		6	2437	19.50	21.50	22.00
		9	2452	18.00	18.00	21.00
	802.11ac-VHT20 MCS0	1	2412	19.00	18.50	22.00
		6	2437	19.50	22.00	22.00
		11	2462	18.50	18.00	21.50
	802.11ac-VHT40 MCS0	3	2422	18.00	17.00	20.50
		6	2437	19.50	21.50	22.00
		9	2452	18.00	18.00	21.00
	802.11ax-HE20 MCS0	1	2412	19.00	18.50	22.00
		6	2437	19.50	22.00	22.00
		11	2462	18.50	18.00	21.50
802.11ax-HE40 MCS0	3	2422	18.00	17.00	20.50	
	6	2437	19.50	21.50	22.00	
	9	2452	18.00	18.00	21.00	

<5GHz WLAN>

	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	16.50	18.00	19.50
		40	5200	16.50	18.00	19.50
		44	5220	16.50	18.50	19.50
		48	5240	16.50	18.50	19.50
	802.11n-HT20 MCS0	36	5180	16.50	18.00	19.50
		40	5200	16.50	18.00	19.50
		44	5220	16.50	18.00	19.50
		48	5240	16.50	18.00	19.50
	802.11n-HT40 MCS0	38	5190	16.50	18.50	19.50
		46	5230	16.50	19.00	19.50
	802.11ac-VHT20 MCS0	36	5180	16.50	18.00	19.50
		40	5200	16.50	18.00	19.50
		44	5220	16.50	18.00	19.50
		48	5240	16.50	18.00	19.50
	802.11ac-VHT40 MCS0	38	5190	16.50	18.50	19.50
		46	5230	16.50	19.00	19.50
	802.11ac-VHT80 MCS0	42	5210	16.50	18.50	19.50
	802.11ax-HE20 MCS0	36	5180	16.50	18.00	19.50
		40	5200	16.50	18.00	19.50
		44	5220	16.50	18.00	19.50



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		48	5240	16.50	18.00	19.50
	802.11ax-HE40 MCS0	38	5190	16.50	18.50	19.50
		46	5230	16.50	19.00	19.50
	802.11ax-HE80 MCS0	42	5210	16.50	18.50	19.50



	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
5.3GHz WLAN	802.11a 6Mbps	52	5260	16.50	18.00	19.50
		56	5280	16.50	18.00	19.50
		60	5300	16.50	18.00	19.50
		64	5320	16.50	18.00	19.50
	802.11n-HT20 MCS0	52	5260	16.50	18.50	19.50
		56	5280	16.50	18.00	19.50
		60	5300	16.50	18.50	19.50
		64	5320	16.50	18.00	19.50
	802.11n-HT40 MCS0	54	5270	16.50	19.00	19.50
		62	5310	16.50	18.50	19.50
	802.11ac-VHT20 MCS0	52	5260	16.50	18.50	19.50
		56	5280	16.50	18.00	19.50
		60	5300	16.50	18.50	19.50
		64	5320	16.50	18.00	19.50
	802.11ac-VHT40 MCS0	54	5270	16.50	19.00	19.50
		62	5310	16.50	18.50	19.50
	802.11ac-VHT80 MCS0	58	5290	16.50	18.50	19.50
	802.11ax-HE20 MCS0	52	5260	16.50	18.50	19.50
		56	5280	16.50	18.00	19.50
		60	5300	16.50	18.50	19.50
64		5320	16.50	18.00	19.50	
802.11ax-HE40 MCS0	54	5270	16.50	19.00	19.50	
	62	5310	16.50	18.50	19.50	
802.11ax-HE80 MCS0	58	5290	16.50	18.50	19.50	
802.11ax-HE160 MCS0	50	5250	16.00	17.00	19.00	



	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500	16.50	18.00	20.50
		116	5580	16.50	18.00	20.50
		124	5620	16.50	18.00	20.50
		132	5660	16.50	17.50	20.50
		140	5700	16.50	17.50	20.50
	802.11n-HT20 MCS0	100	5500	16.50	18.00	20.50
		116	5580	16.50	18.00	20.50
		124	5620	16.50	18.00	20.50
		132	5660	16.50	17.50	20.50
		140	5700	16.50	17.50	20.50
	802.11n-HT40 MCS0	102	5510	16.50	19.00	20.50
		110	5550	16.50	19.50	20.50
		126	5630	16.50	19.00	20.50
	802.11ac-VHT20 MCS0	134	5670	16.50	18.50	20.50
		100	5500	16.50	18.00	20.50
		116	5580	16.50	18.00	20.50
		124	5620	16.50	18.00	20.50
	802.11ac-VHT40 MCS0	132	5660	16.50	17.50	20.50
		140	5700	16.50	17.50	20.50
		102	5510	16.50	19.00	20.50
	802.11ac-VHT80 MCS0	110	5550	16.50	19.50	20.50
		126	5630	16.50	19.00	20.50
		134	5670	16.50	18.50	20.50
	802.11ax-HE20 MCS0	106	5530	16.50	19.50	20.50
		122	5610	16.50	19.50	20.50
	802.11ax-HE40 MCS0	100	5500	16.50	18.00	20.50
		116	5580	16.50	18.00	20.50
		124	5620	16.50	18.00	20.50
		132	5660	16.50	17.50	20.50
		140	5700	16.50	17.50	20.50
802.11ax-HE80 MCS0	102	5510	16.50	19.00	20.50	
	110	5550	16.50	19.50	20.50	
	126	5630	16.50	19.00	20.50	
802.11ax-HE160 MCS0	134	5670	16.50	18.50	20.50	
	106	5530	16.50	19.50	20.50	
		122	5610	16.50	19.50	20.50
		114	5570	16.00	18.50	20.00



	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
5.8GHz WLAN	802.11a 6Mbps	149	5745	18.00	20.00	21.50
		157	5785	18.00	20.00	21.50
		165	5825	18.00	20.00	21.50
	802.11n-HT20 MCS0	149	5745	18.00	20.00	21.50
		157	5785	18.00	20.00	21.50
		165	5825	18.00	20.00	21.50
	802.11n-HT40 MCS0	151	5755	18.00	20.00	21.50
		159	5795	18.00	20.00	21.50
	802.11ac-VHT20 MCS0	149	5745	18.00	20.00	21.50
		157	5785	18.00	20.00	21.50
		165	5825	18.00	20.00	21.50
	802.11ac-VHT40 MCS0	151	5755	18.00	20.00	21.50
		159	5795	18.00	20.00	21.50
	802.11ac-VHT80 MCS0	155	5775	18.00	20.00	21.50
	802.11ax-HE20 MCS0	149	5745	18.00	20.00	21.50
		157	5785	18.00	20.00	21.50
		165	5825	18.00	20.00	21.50
	802.11ax-HE40 MCS0	151	5755	18.00	20.00	21.50
159		5795	18.00	20.00	21.50	
802.11ax-HE80 MCS0	155	5775	18.00	20.00	21.50	



<Power State 3>

<2.4GHz WLAN>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
	802.11b 1Mbps	1	2412	22.00	21.00	24.50
		6	2437	20.00	19.50	23.00
		11	2462	21.00	20.00	23.50
	802.11g 6Mbps	1	2412	19.00	18.50	22.00
		6	2437	22.00	22.00	25.00
		11	2462	18.50	18.00	21.50
	802.11n-HT20 MCS0	1	2412	19.00	18.50	22.00
		6	2437	22.00	22.00	25.00
		11	2462	18.50	18.00	21.50
	802.11n-HT40 MCS0	3	2422	18.00	17.00	20.50
		6	2437	22.00	21.50	25.00
9		2452	18.00	18.00	21.00	
802.11ac-VHT20 MCS0	1	2412	19.00	18.50	22.00	
	6	2437	22.00	22.00	25.00	
	11	2462	18.50	18.00	21.50	
802.11ac-VHT40 MCS0	3	2422	18.00	17.00	20.50	
	6	2437	22.00	21.50	25.00	
	9	2452	18.00	18.00	21.00	
802.11ax-HE20 MCS0	1	2412	19.00	18.50	22.00	
	6	2437	22.00	22.00	25.00	
	11	2462	18.50	18.00	21.50	
802.11ax-HE40 MCS0	3	2422	18.00	17.00	20.50	
	6	2437	22.00	21.50	25.00	
	9	2452	18.00	18.00	21.00	

<5GHz WLAN>

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
	802.11a 6Mbps	36	5180	18.50	18.00	21.50
		40	5200	18.50	18.00	21.50
		44	5220	18.50	18.50	21.50
		48	5240	19.00	18.50	22.00
	802.11n-HT20 MCS0	36	5180	18.50	18.00	21.50
		40	5200	18.50	18.00	21.50
		44	5220	18.50	18.00	21.50
		48	5240	18.50	18.00	21.50
	802.11n-HT40 MCS0	38	5190	19.00	18.50	22.00
		46	5230	19.50	19.00	22.50
	802.11ac-VHT20 MCS0	36	5180	18.50	18.00	21.50
		40	5200	18.50	18.00	21.50
		44	5220	18.50	18.00	21.50
		48	5240	18.50	18.00	21.50
	802.11ac-VHT40 MCS0	38	5190	19.00	18.50	22.00
		46	5230	19.50	19.00	22.50
	802.11ac-VHT80 MCS0	42	5210	19.00	18.50	22.00
802.11ax-HE20 MCS0	36	5180	18.50	18.00	21.50	
	40	5200	18.50	18.00	21.50	
	44	5220	18.50	18.00	21.50	



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		48	5240	18.50	18.00	21.50
	802.11ax-HE40 MCS0	38	5190	19.00	18.50	22.00
		46	5230	19.50	19.00	22.50
	802.11ax-HE80 MCS0	42	5210	19.00	18.50	22.00



	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11n-HT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11n-HT40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ac-VHT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ac-VHT80 MCS0	155	5775	20.00	20.00	23.00
	802.11ax-HE20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11ax-HE40 MCS0	151	5755	20.00	20.00	23.00
159		5795	20.00	20.00	23.00	
802.11ax-HE80 MCS0	155	5775	20.00	20.00	23.00	



<Power State 4>

<2.4GHz WLAN>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
	802.11b 1Mbps		1	2412	22.00	21.00
		6	2437	20.00	19.50	23.00
		11	2462	21.00	20.00	23.50
802.11g 6Mbps		1	2412	19.00	18.50	22.00
		6	2437	22.00	22.00	25.00
		11	2462	18.50	18.00	21.50
802.11n-HT20 MCS0		1	2412	19.00	18.50	22.00
		6	2437	22.00	22.00	25.00
		11	2462	18.50	18.00	21.50
802.11n-HT40 MCS0		3	2422	18.00	17.00	20.50
		6	2437	22.00	21.50	25.00
		9	2452	18.00	18.00	21.00
802.11ac-VHT20 MCS0		1	2412	19.00	18.50	22.00
		6	2437	22.00	22.00	25.00
		11	2462	18.50	18.00	21.50
802.11ac-VHT40 MCS0		3	2422	18.00	17.00	20.50
		6	2437	22.00	21.50	25.00
		9	2452	18.00	18.00	21.00
802.11ax-HE20 MCS0		1	2412	19.00	18.50	22.00
		6	2437	22.00	22.00	25.00
		11	2462	18.50	18.00	21.50
802.11ax-HE40 MCS0		3	2422	18.00	17.00	20.50
		6	2437	22.00	21.50	25.00
		9	2452	18.00	18.00	21.00



<5GHz WLAN>

	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.50	18.00	21.50
		40	5200	18.50	18.00	21.50
		44	5220	18.50	18.50	21.50
		48	5240	19.00	18.50	22.00
	802.11n-HT20 MCS0	36	5180	18.50	18.00	21.50
		40	5200	18.50	18.00	21.50
		44	5220	18.50	18.00	21.50
	802.11n-HT40 MCS0	48	5240	18.50	18.00	21.50
		38	5190	19.00	18.50	22.00
	802.11ac-VHT20 MCS0	46	5230	19.50	19.00	22.50
		36	5180	18.50	18.00	21.50
	802.11ac-VHT40 MCS0	40	5200	18.50	18.00	21.50
		44	5220	18.50	18.00	21.50
		48	5240	18.50	18.00	21.50
	802.11ac-VHT80 MCS0	38	5190	19.00	18.50	22.00
		46	5230	19.50	19.00	22.50
	802.11ax-HE20 MCS0	42	5210	19.00	18.50	22.00
		36	5180	18.50	18.00	21.50
		40	5200	18.50	18.00	21.50
		44	5220	18.50	18.00	21.50
802.11ax-HE40 MCS0	48	5240	18.50	18.00	21.50	
	38	5190	19.00	18.50	22.00	
802.11ax-HE80 MCS0	46	5230	19.50	19.00	22.50	
	42	5210	19.00	18.50	22.00	



5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
	802.11a 6Mbps	52	5260	19.00	18.00	21.50
		56	5280	18.50	18.00	21.50
		60	5300	18.50	18.00	21.50
		64	5320	19.00	18.00	21.50
	802.11n-HT20 MCS0	52	5260	19.00	18.50	22.00
		56	5280	18.50	18.00	21.50
		60	5300	19.00	18.50	22.00
		64	5320	18.50	18.00	21.50
	802.11n-HT40 MCS0	54	5270	19.50	19.00	22.50
		62	5310	20.00	18.50	22.50
	802.11ac-VHT20 MCS0	52	5260	19.00	18.50	22.00
		56	5280	18.50	18.00	21.50
		60	5300	19.00	18.50	22.00
		64	5320	18.50	18.00	21.50
	802.11ac-VHT40 MCS0	54	5270	19.50	19.00	22.50
		62	5310	20.00	18.50	22.50
	802.11ac-VHT80 MCS0	58	5290	19.00	18.50	22.00
	802.11ax-HE20 MCS0	52	5260	19.00	18.50	22.00
		56	5280	18.50	18.00	21.50
60		5300	19.00	18.50	22.00	
64		5320	18.50	18.00	21.50	
802.11ax-HE40 MCS0	54	5270	19.50	19.00	22.50	
	62	5310	20.00	18.50	22.50	
802.11ax-HE80 MCS0	58	5290	19.00	18.50	22.00	
802.11ax-HE160 MCS0	50	5250	17.50	17.00	20.50	



	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
5.5GHz WLAN	802.11a 6Mbps	100	5500	18.50	18.00	21.50
		116	5580	18.50	18.00	21.50
		124	5620	18.50	18.00	21.50
		132	5660	18.50	17.50	21.00
		140	5700	19.00	17.50	21.50
	802.11n-HT20 MCS0	100	5500	18.50	18.00	21.50
		116	5580	18.50	18.00	21.50
		124	5620	18.50	18.00	21.50
		132	5660	18.50	17.50	21.00
		140	5700	19.00	17.50	21.50
	802.11n-HT40 MCS0	102	5510	20.00	19.00	22.50
		110	5550	20.00	19.50	23.00
		126	5630	20.00	19.00	22.50
	802.11ac-VHT20 MCS0	100	5500	18.50	18.00	21.50
		116	5580	18.50	18.00	21.50
		124	5620	18.50	18.00	21.50
		132	5660	18.50	17.50	21.00
	802.11ac-VHT40 MCS0	102	5510	20.00	19.00	22.50
		110	5550	20.00	19.50	23.00
		126	5630	20.00	19.00	22.50
	802.11ac-VHT80 MCS0	106	5530	19.50	19.50	22.50
		122	5610	19.50	19.50	22.50
	802.11ax-HE20 MCS0	100	5500	18.50	18.00	21.50
		116	5580	18.50	18.00	21.50
		124	5620	18.50	18.00	21.50
		132	5660	18.50	17.50	21.00
		140	5700	19.00	17.50	21.50
	802.11ax-HE40 MCS0	102	5510	20.00	19.00	22.50
		110	5550	20.00	19.50	23.00
		126	5630	20.00	19.00	22.50
	802.11ax-HE80 MCS0	134	5670	20.00	18.50	22.50
		106	5530	19.50	19.50	22.50
802.11ax-HE160 MCS0	122	5610	19.50	19.50	22.50	
	114	5570	19.00	19.00	22.00	



	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11n-HT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11n-HT40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ac-VHT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ac-VHT80 MCS0	155	5775	20.00	20.00	23.00
	802.11ax-HE20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11ax-HE40 MCS0	151	5755	20.00	20.00	23.00
159		5795	20.00	20.00	23.00	
802.11ax-HE80 MCS0	155	5775	20.00	20.00	23.00	



<Power State 5>

<2.4GHz WLAN>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 6 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
	802.11b 1Mbps	1	2412	19.50	21.00	22.00
		6	2437	19.50	19.50	22.00
		11	2462	19.50	20.00	22.00
	802.11g 6Mbps	1	2412	19.00	18.50	22.00
		6	2437	19.50	22.00	22.00
		11	2462	18.50	18.00	21.50
	802.11n-HT20 MCS0	1	2412	19.00	18.50	22.00
		6	2437	19.50	22.00	22.00
		11	2462	18.50	18.00	21.50
802.11n-HT40 MCS0	3	2422	18.00	17.00	20.50	
	6	2437	19.50	21.50	22.00	
	9	2452	18.00	18.00	21.00	
802.11ac-VHT20 MCS0	1	2412	19.00	18.50	22.00	
	6	2437	19.50	22.00	22.00	
	11	2462	18.50	18.00	21.50	
802.11ac-VHT40 MCS0	3	2422	18.00	17.00	20.50	
	6	2437	19.50	21.50	22.00	
	9	2452	18.00	18.00	21.00	
802.11ax-HE20 MCS0	1	2412	19.00	18.50	22.00	
	6	2437	19.50	22.00	22.00	
	11	2462	18.50	18.00	21.50	
802.11ax-HE40 MCS0	3	2422	18.00	17.00	20.50	
	6	2437	19.50	21.50	22.00	
	9	2452	18.00	18.00	21.00	

<5GHz WLAN>

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 6 Tune-up Limit	Ant 5 Tune-up Limit	Ant 6+5 Tune-up Limit
	802.11a 6Mbps	36	5180	13.00	17.50	15.00
		40	5200	13.00	17.50	15.00
		44	5220	13.00	17.50	15.00
		48	5240	13.00	17.50	15.00
	802.11n-HT20 MCS0	36	5180	13.00	17.50	15.00
		40	5200	13.00	17.50	15.00
		44	5220	13.00	17.50	15.00
		48	5240	13.00	17.50	15.00
	802.11n-HT40 MCS0	38	5190	13.00	17.00	15.00
46		5230	13.00	17.50	15.00	
802.11ac-VHT20 MCS0	36	5180	13.00	17.50	15.00	
	40	5200	13.00	17.50	15.00	
	44	5220	13.00	17.50	15.00	
	48	5240	13.00	17.50	15.00	
802.11ac-VHT40 MCS0	38	5190	13.00	17.00	15.00	
	46	5230	13.00	17.50	15.00	
802.11ac-VHT80 MCS0	42	5210	13.00	16.50	15.00	
802.11ax-HE20 MCS0	36	5180	13.00	17.50	15.00	
	40	5200	13.00	17.50	15.00	
	44	5220	13.00	17.50	15.00	



FCC SAR TEST REPORT

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		48	5240	13.00	17.50	15.00
	802.11ax-HE40 MCS0	38	5190	13.00	17.00	15.00
		46	5230	13.00	17.50	15.00
	802.11ax-HE80 MCS0	42	5210	13.00	16.50	15.00



	Mode	Channel	Frequency (MHz)	Ant 6 Tune-up Limit	Ant 5 Tune-up Limit	Ant 6+5 Tune-up Limit
5.8GHz WLAN	802.11a 6Mbps	149	5745	15.00	20.00	18.50
		157	5785	15.00	20.00	18.50
		165	5825	15.00	20.00	18.50
	802.11n-HT20 MCS0	149	5745	15.00	20.00	18.50
		157	5785	15.00	20.00	18.50
		165	5825	15.00	20.00	18.50
	802.11n-HT40 MCS0	151	5755	15.00	20.00	18.50
		159	5795	15.00	20.00	18.50
	802.11ac-VHT20 MCS0	149	5745	15.00	20.00	18.50
		157	5785	15.00	20.00	18.50
		165	5825	15.00	20.00	18.50
	802.11ac-VHT40 MCS0	151	5755	15.00	20.00	18.50
		159	5795	15.00	20.00	18.50
	802.11ac-VHT80 MCS0	155	5775	15.00	20.00	18.50
	802.11ax-HE20 MCS0	149	5745	15.00	20.00	18.50
		157	5785	15.00	20.00	18.50
		165	5825	15.00	20.00	18.50
	802.11ax-HE40 MCS0	151	5755	15.00	20.00	18.50
159		5795	15.00	20.00	18.50	
802.11ax-HE80 MCS0	155	5775	15.00	20.00	18.50	



<Power State 6>

<2.4GHz WLAN>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 6 Tune-up Limit	Ant 5 Tune-up Limit	Ant 6+5 Tune-up Limit
	802.11b 1Mbps	1	2412	18.50	21.00	23.00
		6	2437	19.00	20.50	23.00
		11	2462	19.50	21.00	23.50
	802.11g 6Mbps	1	2412	16.50	18.00	20.50
		6	2437	19.00	22.00	24.00
		11	2462	15.50	16.50	19.00
	802.11n-HT20 MCS0	1	2412	16.50	18.00	20.50
		6	2437	19.00	22.00	24.00
		11	2462	15.50	16.50	19.00
802.11n-HT40 MCS0	3	2422	15.00	16.00	18.50	
	6	2437	19.50	21.50	24.00	
	9	2452	14.00	16.00	18.50	
802.11ac-VHT20 MCS0	1	2412	16.50	18.00	20.50	
	6	2437	19.00	22.00	24.00	
	11	2462	15.50	16.50	19.00	
802.11ac-VHT40 MCS0	3	2422	15.00	16.00	18.50	
	6	2437	19.50	21.50	24.00	
	9	2452	14.00	16.00	18.50	
802.11ax-HE20 MCS0	1	2412	16.50	18.00	20.50	
	6	2437	19.00	22.00	24.00	
	11	2462	15.50	16.50	19.00	
802.11ax-HE40 MCS0	3	2422	15.00	16.00	18.50	
	6	2437	19.50	21.50	24.00	
	9	2452	14.00	16.00	18.50	



<5GHz WLAN>

	Mode	Channel	Frequency (MHz)	Ant 6 Tune-up Limit	Ant 5 Tune-up Limit	Ant 6+5 Tune-up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	20.00	19.00	22.50
		40	5200	20.00	19.00	22.50
		44	5220	20.00	19.00	22.50
		48	5240	20.00	19.00	22.50
	802.11n-HT20 MCS0	36	5180	19.50	18.50	22.00
		40	5200	19.50	18.50	22.00
		44	5220	20.00	19.00	22.50
		48	5240	20.00	19.00	22.50
	802.11n-HT40 MCS0	38	5190	18.00	17.00	20.50
		46	5230	19.50	18.50	22.00
	802.11ac-VHT20 MCS0	36	5180	19.50	18.50	22.00
		40	5200	19.50	18.50	22.00
		44	5220	20.00	19.00	22.50
		48	5240	20.00	19.00	22.50
	802.11ac-VHT40 MCS0	38	5190	18.00	17.00	20.50
		46	5230	19.50	18.50	22.00
	802.11ac-VHT80 MCS0	42	5210	18.00	16.50	20.50
	802.11ax-HE20 MCS0	36	5180	19.50	18.50	22.00
		40	5200	19.50	18.50	22.00
		44	5220	20.00	19.00	22.50
48		5240	20.00	19.00	22.50	
802.11ax-HE40 MCS0	38	5190	18.00	17.00	20.50	
	46	5230	19.50	18.50	22.00	
802.11ax-HE80 MCS0	42	5210	18.00	16.50	20.50	



5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 6 Tune-up Limit	Ant 5 Tune-up Limit	Ant 6+5 Tune-up Limit
	802.11a 6Mbps	52	5260	19.50	18.50	22.00
		56	5280	19.50	18.50	22.00
		60	5300	19.50	18.50	22.00
		64	5320	19.50	18.50	22.00
	802.11n-HT20 MCS0	52	5260	19.50	18.50	22.00
		56	5280	19.50	18.50	22.00
		60	5300	19.00	18.00	21.50
		64	5320	19.00	18.00	21.50
	802.11n-HT40 MCS0	54	5270	20.00	19.00	22.50
		62	5310	19.00	17.50	21.50
	802.11ac-VHT20 MCS0	52	5260	19.50	18.50	22.00
		56	5280	19.50	18.50	22.00
		60	5300	19.00	18.00	21.50
		64	5320	19.00	18.00	21.50
	802.11ac-VHT40 MCS0	54	5270	20.00	19.00	22.50
		62	5310	19.00	17.50	21.50
	802.11ac-VHT80 MCS0	58	5290	17.50	16.00	20.00
	802.11ax-HE20 MCS0	52	5260	19.50	18.50	22.00
56		5280	19.50	18.50	22.00	
60		5300	19.00	18.00	21.50	
64		5320	19.00	18.00	21.50	
802.11ax-HE40 MCS0	54	5270	20.00	19.00	22.50	
	62	5310	19.00	17.50	21.50	
802.11ax-HE80 MCS0	58	5290	17.50	16.00	20.00	
802.11ax-HE160 MCS0	50	5250	17.50	16.50	20.00	



5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 6 Tune-up Limit	Ant 5 Tune-up Limit	Ant 6+5 Tune-up Limit
	802.11a 6Mbps	100	5500	19.00	18.50	22.00
		116	5580	19.00	18.50	22.00
		124	5620	19.00	18.00	21.50
		132	5660	19.00	18.00	21.50
		140	5700	19.00	18.00	21.50
	802.11n-HT20 MCS0	100	5500	18.50	18.00	21.50
		116	5580	18.50	18.00	21.50
		124	5620	18.50	18.00	21.50
		132	5660	18.50	16.50	21.00
		140	5700	18.50	16.50	21.00
	802.11n-HT40 MCS0	102	5510	19.50	19.00	22.50
		110	5550	20.00	19.50	23.00
		126	5630	20.00	18.50	22.50
	802.11ac-VHT20 MCS0	134	5670	20.00	18.00	22.50
		100	5500	18.50	18.00	21.50
		116	5580	18.50	18.00	21.50
		124	5620	18.50	18.00	21.50
	802.11ac-VHT40 MCS0	132	5660	18.50	16.50	21.00
		140	5700	18.50	16.50	21.00
102		5510	19.50	19.00	22.50	
802.11ac-VHT80 MCS0	110	5550	20.00	19.50	23.00	
	126	5630	20.00	18.50	22.50	
	134	5670	20.00	18.00	22.50	
802.11ax-HE20 MCS0	106	5530	19.00	18.50	22.00	
	122	5610	19.00	18.50	22.00	
802.11ax-HE40 MCS0	100	5500	18.50	18.00	21.50	
	116	5580	18.50	18.00	21.50	
	124	5620	18.50	18.00	21.50	
	132	5660	18.50	17.00	21.00	
	140	5700	18.50	17.00	21.00	
802.11ax-HE80 MCS0	102	5510	19.50	19.00	22.50	
	110	5550	20.00	19.50	23.00	
	126	5630	20.00	18.50	22.50	
802.11ax-HE160 MCS0	134	5670	20.00	18.00	22.50	
	106	5530	19.00	18.50	22.00	
		122	5610	19.00	18.50	22.00
		114	5570	19.00	18.50	22.00



	Mode	Channel	Frequency (MHz)	Ant 6 Tune-up Limit	Ant 5 Tune-up Limit	Ant 6+5 Tune-up Limit
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11n-HT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11n-HT40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ac-VHT20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11ac-VHT40 MCS0	151	5755	20.00	20.00	23.00
		159	5795	20.00	20.00	23.00
	802.11ac-VHT80 MCS0	155	5775	20.00	20.00	23.00
	802.11ax-HE20 MCS0	149	5745	20.00	20.00	23.00
		157	5785	20.00	20.00	23.00
		165	5825	20.00	20.00	23.00
	802.11ax-HE40 MCS0	151	5755	20.00	20.00	23.00
159		5795	20.00	20.00	23.00	
802.11ax-HE80 MCS0	155	5775	20.00	20.00	23.00	



WiFi 6E Output Power State

<Power State 1~4>

	Mode	Channel	Frequency (MHz)	Ant 4 Tune-up Limit	Ant 5 Tune-up Limit	Ant 4+5 Tune-up Limit
5.8GHz WLAN	802.11a 6Mbps	1	5955	1.50	1.50	4.50
		57	6235	1.50	1.50	4.50
		113	6515	1.50	1.50	4.50
		173	6815	1.50	1.50	4.50
		233	7115	1.50	1.50	4.50
	802.11n-HT20 MCS0	1	5955	1.50	1.50	4.50
		57	6235	1.50	1.50	4.50
		113	6515	1.50	1.50	4.50
		173	6815	1.50	1.50	4.50
		233	7115	1.50	1.50	4.50
	802.11n-HT40 MCS0	3	5965	4.50	4.50	7.50
		59	6245	4.50	4.50	7.50
		107	6485	4.50	4.50	7.50
		171	6805	4.50	4.50	7.50
		227	7085	4.50	4.50	7.50
	802.11ac-VHT20 MCS0	1	5955	1.50	1.50	4.50
		57	6235	1.50	1.50	4.50
		113	6515	1.50	1.50	4.50
		173	6815	1.50	1.50	4.50
		233	7115	1.50	1.50	4.50
	802.11ac-VHT40 MCS0	3	5965	4.50	4.50	7.50
		59	6245	4.50	4.50	7.50
		107	6485	4.50	4.50	7.50
		171	6805	4.50	4.50	7.50
		227	7085	4.50	4.50	7.50
	802.11ac-VHT80 MCS0	7	5985	8.00	8.00	11.00
		71	6305	8.00	8.00	11.00
		119	6545	8.00	8.00	11.00
		167	6785	8.00	8.00	11.00
		215	7025	8.50	8.50	11.50
	802.11ax-HE80 MCS0	7	5985	8.00	8.00	11.00
		71	6305	8.00	8.00	11.00
		119	6545	8.00	8.00	11.00
		167	6785	8.00	8.00	11.00
		215	7025	8.50	8.50	11.50
802.11ax-HE160 MCS0	15	6025	11.50	11.50	14.50	
	47	6185	11.50	11.50	14.50	
	111	6505	11.00	11.00	14.00	
	175	6825	11.50	11.50	14.50	
	207	6985	11.00	11.00	14.00	



<Power State 5-6>

	Mode	Channel	Frequency (MHz)	Ant 6 Tune-up Limit	Ant 5 Tune-up Limit	Ant 6+5 Tune-up Limit
5.8GHz WLAN	802.11a 6Mbps	1	5955	-1.50	-1.50	1.50
		57	6235	-1.50	-1.50	1.50
		113	6515	-1.50	-1.50	1.50
		173	6815	-1.50	-1.50	1.50
		233	7115	-1.50	-1.50	1.50
	802.11n-HT20 MCS0	1	5955	-1.00	-1.00	2.00
		57	6235	-1.00	-1.00	2.00
		113	6515	-1.00	-1.00	2.00
		173	6815	-1.00	-1.00	2.00
		233	7115	-1.00	-1.00	2.00
	802.11n-HT40 MCS0	3	5965	2.50	2.50	5.50
		59	6245	2.50	2.50	5.50
		107	6485	2.50	2.50	5.50
		171	6805	2.50	2.50	5.50
		227	7085	2.50	2.50	5.50
	802.11ac-VHT20 MCS0	1	5955	-1.00	-1.00	2.00
		57	6235	-1.00	-1.00	2.00
		113	6515	-1.00	-1.00	2.00
		173	6815	-1.00	-1.00	2.00
		233	7115	-1.00	-1.00	2.00
	802.11ac-VHT40 MCS0	3	5965	2.50	2.50	5.50
		59	6245	2.50	2.50	5.50
		107	6485	2.50	2.50	5.50
		171	6805	2.50	2.50	5.50
		227	7085	2.50	2.50	5.50
	802.11ac-VHT80 MCS0	7	5985	6.00	6.00	9.00
		71	6305	6.00	6.00	9.00
		119	6545	6.00	6.00	9.00
		167	6785	6.00	6.00	9.00
		215	7025	6.00	6.00	9.00
	802.11ax-HE80 MCS0	7	5985	6.00	6.00	9.00
		71	6305	6.00	6.00	9.00
		119	6545	6.00	6.00	9.00
		167	6785	6.00	6.00	9.00
		215	7025	6.00	6.00	9.00
802.11ax-HE160 MCS0	15	6025	8.50	8.50	11.50	
	47	6185	8.50	8.50	11.50	
	111	6505	8.50	8.50	11.50	
	175	6825	8.50	8.50	11.50	
	207	6985	8.50	8.50	11.50	

Bluetooth Output Power State

<Power State 1>

BT 2.0

Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	19.40	16.00	16.00
	CH 39	2441	19.40	16.00	16.00
	CH 78	2480	19.40	16.00	16.00

BT 2.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.50	15.00	15.00
	CH 39	2441	18.50	16.50	16.50
	CH 78	2480	17.50	15.00	15.00

BT 5.0

Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	8.50	8.50
	CH 19	2440	10.00	10.00
	CH 39	2480	8.50	8.50

BT 5.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	1Mbps
LE	CH 00	2402	9.50	9.50
	CH 19	2440	11.00	11.00
	CH 39	2480	9.50	9.50



<Power State 2>

BT 2.0

Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	14.00	14.00	14.00
	CH 39	2441	14.00	14.00	14.00
	CH 78	2480	14.00	14.00	14.00

BT 2.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.50	15.00	15.00
	CH 39	2441	18.50	16.50	16.50
	CH 78	2480	17.50	15.00	15.00

BT 5.0

Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	8.50	8.50
	CH 19	2440	10.00	10.00
	CH 39	2480	8.50	8.50

BT 5.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	1Mbps
LE	CH 00	2402	9.50	9.50
	CH 19	2440	11.00	11.00
	CH 39	2480	9.50	9.50



<Power State 3>

BT 2.0

Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.00	15.00	15.00
	CH 39	2441	17.00	15.00	15.00
	CH 78	2480	17.00	15.00	15.00

BT 2.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	13.50	13.50	13.50
	CH 39	2441	15.50	15.50	15.50
	CH 78	2480	13.50	13.50	13.50

BT 5.0

Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	8.50	8.50
	CH 19	2440	10.00	10.00
	CH 39	2480	8.50	8.50

BT 5.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	1Mbps
LE	CH 00	2402	9.50	9.50
	CH 19	2440	11.00	11.00
	CH 39	2480	9.50	9.50



<Power State 4>

BT 2.0

Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	19.40	16.00	16.00
	CH 39	2441	19.40	16.00	16.00
	CH 78	2480	19.40	16.00	16.00

BT 2.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.50	15.00	15.00
	CH 39	2441	18.50	16.50	16.50
	CH 78	2480	17.50	15.00	15.00

BT 5.0

Ant 4

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	8.50	8.50
	CH 19	2440	10.00	10.00
	CH 39	2480	8.50	8.50

BT 5.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	1Mbps
LE	CH 00	2402	9.50	9.50
	CH 19	2440	11.00	11.00
	CH 39	2480	9.50	9.50



< Power State 5 >

BT 2.0

Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	15.5	12.5	12.5
	CH 39	2441	15.5	12.5	12.5
	CH 78	2480	15.5	12.5	12.5

BT 2.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	13.50	13.50	13.50
	CH 39	2441	15.50	15.50	15.50
	CH 78	2480	13.50	13.50	13.50

BT 5.0

Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	8.00	8.00
	CH 19	2440	8.00	8.00
	CH 39	2480	8.00	8.00

BT 5.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	1Mbps
LE	CH 00	2402	9.50	9.50
	CH 19	2440	11.00	11.00
	CH 39	2480	9.50	9.50



<Power State 6>

BT 2.0

Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	18.50	15.00	15.00
	CH 39	2441	18.50	15.00	15.00
	CH 78	2480	18.50	15.00	15.00

BT 2.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.50	15.00	15.00
	CH 39	2441	18.50	16.50	16.50
	CH 78	2480	17.50	15.00	15.00

BT 5.0

Ant 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	8.00	8.00
	CH 19	2440	8.00	8.00
	CH 39	2480	8.00	8.00

BT 5.0

Ant 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	1Mbps
LE	CH 00	2402	9.50	9.50
	CH 19	2440	11.00	11.00
	CH 39	2480	9.50	9.50



2.3 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																															
FCC ID	MSQI005D																																																														
Equipment Name	ASUS Phone(Mobile Phone)																																																														
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 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 42: 3550 MHz ~ 3600 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 42: 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																																																														
LTE Voice / Data requirements	Voice and Data																																																														
LTE MPR permanently built-in by design	<p align="center">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</p> <table border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </table>	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
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	Yes, please refer to operational description for the detail																																																														
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to sspendix D.																																																														
LTE Carrier Aggregation Additional Information	This device supports maximum of 5 carriers in the downlink and 2 carriers in the uplink. 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	20425	826.5	20450	829		
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5		
H	20643	848.3	20635	847.5	20625	846.5	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)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782					
M	23230		782		23230		782					
H	23255		784.5		23230		782					
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709					
M	23790		710		23790		710					
H	23825		713.5		23800		711					
LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	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)				
L	37775	37800	2575	37825	2577.5	37850	2580				
M	38000	38000	2595	38000	2595	38000	2595				
H	38225	38200	2615	38175	2612.5	38150	2610				
LTE Band 41											
Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	39700	2501	39725	2503.5	39750	2506				
L	40148	40160	2547	40173	2548.3	40185	2549.5				
M	40620	40620	2593	40620	2593	40620	2593				
H	41093	41080	2639	41068	2637.8	41055	2636.5				
H	41565	41540	2685	41515	2682.5	41490	2680				
LTE Band 42											
Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	43315	43140	3555	43165	3557.5	43190	3560				
M	43340	43340	3575	43340	3575	43340	3575				
H	43565	43540	3595	43515	3592.5	43490	3590				
LTE Band 48											
Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	43315	43140	3555	43165	3557.5	43190	3560				
M	55810	55815	3607.5	55820	3608	55830	3609				
M	56170	56165	3642.5	56160	3642	56150	3641				
H	43565	43540	3595	43515	3592.5	43490	3590				
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	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71											
Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	133147	133172	668	133197	670.5	133222	673				
M	133297	133297	680.5	133297	680.5	133297	680.5				
H	133447	133422	693	133397	690.5	133372	688				
LTE Band 48											
Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	55265	55290	3555	55315	3557.5	55340	3560				
L	55810	55815	3607.5	55820	3608	55830	3609				
M	56170	56165	3642.5	56160	3642	56150	3641				
H	56715	56690	3695	56665	3692.5	56640	3690				



2.4 General 5G NR SAR Test and Reporting Considerations

5G NR Information																
FCC	MSQI005D															
Equipment Name	ASUS Phone(Mobile 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 n25: 1850 MHz ~ 1915 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz															
Channel Bandwidth	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz, 50MHz 5G NR n12: 5MHz, 10MHz, 15MHz 5G NR n25 : 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz 5G NR n38: 20MHz, 30MHz, 40MHz 5G NR n41: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz 5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz 5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n77: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz 5G NR n78: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 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 Bands for n2	LTE B5/12/13															
LTE Anchor Bands for n5	LTE B2/66/7															
LTE Anchor Bands for n7	LTE B5/12/66															
LTE Anchor Bands for n12	LTE B2/66															
LTE Anchor Bands for n25	LTE B12/66															
LTE Anchor Bands for n38	LTE B2/4/5/38/66/71															
LTE Anchor Bands for n41	LTE B2/4															
LTE Anchor Bands for n66	LTE B5/12/13/71															
LTE Anchor Bands for n71	LTE B2/7/66															
LTE Anchor Bands for n77	LTE B7/41															
LTE Anchor Bands for n78	LTE B2/5/7/12/13/38/41/66/71															
Transmission (H, M, L) channel numbers and frequencies in each 5G NR band																
NR Band 2																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz									
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860								
M	376000	1880	376000	1880	376000	1880	376000	1880								
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900								
NR Band 5																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz									
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	165300	826.5	165800	829	166300	831.5	166800	834								
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5								
H	169300	846.5	168800	844	168300	841.5	167800	839								
NR Band 7																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	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 25																								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz											
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)										
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870										
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5										
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379000	1895										
NR Band 38																								
	Bandwidth 20MHz			Bandwidth 30MHz			Bandwidth 40MHz																	
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)													
L	516504		2582.52		517002		2585.01		518004		519996													
M	519000		2595		519000		2595		519000		2595													
H	521496		2607.48		520998		2604.99		2590.02		2599.98													
NR Band 41																								
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz									
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	507204	2536.02	508200	2541	509202	2546.01								
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99								
H	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	529998	2649.99	528996	2644.98	528000	2640								
NR Band 66																								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz													
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)													
L	342500		1712.5		343000		1715		343500		1717.5		344000		1720		345000		1725		346000		1730	
M	349000		1745		349000		1745		349000		1745		349000		1745		349000		1745		349000		1745	
H	355500		1777.5		355000		1775		354500		1772.5		354000		1770		353000		1765		352000		1760	
NR Band 71																								
	Bandwidth 5MHz			Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz														
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)									
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																								
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz									
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	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								
H	664668	3970.02	3715.02	3965.01	664000	3960	663668	3955.02	663334	3950.01	662668	3940.02	662334	3935.01	662000	3930								
NR Band 78																								
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz									
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649334	3740.01	649668	3745.02										
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750								
H	652668	3790.02	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	650668	3760.02	650334	3755.01										



3. 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

4. RF Exposure Limits

4.1 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.

4.2 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. Specific Absorption Rate (SAR)

5.1 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.

5.2 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:

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

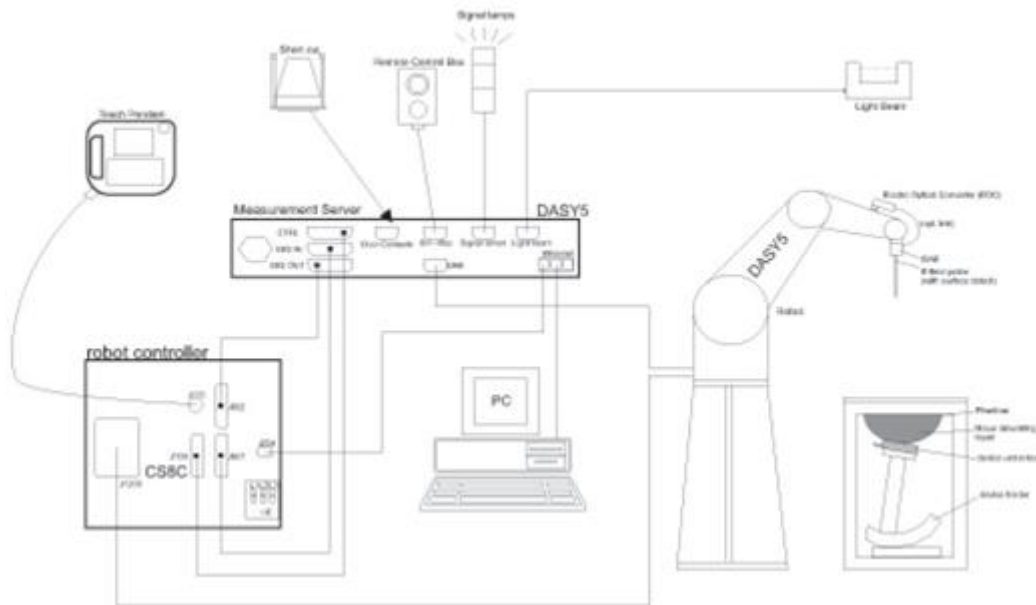
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

6. System Description and Setup

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



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

6.1 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 0007) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory			
Test Site Location	TW1190 No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, CHINESE TAIPEI		TW0007 No. 58, Aly. 75, Ln. 564, Wehnuia 3rd, Rd., Guishan Dist., Taoyuan City, CHINESE TAIPEI	
	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY
Test Site No.	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY
	SAR06-HY	SAR10-HY		


6.2 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	10 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 Portrait 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	10 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 Portrait 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	

6.3 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


6.4 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.

6.5 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

7. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

7.1 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

7.2 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.

7.3 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° ± 1°	20° ± 1°
Maximum area scan spatial resolution: $\Delta x_{Area}, \Delta y_{Area}$	≤ 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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

7.4 Zoom Scan

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

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

		≤ 3 GHz	> 3 GHz	
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}, \Delta y_{Zoom}$		≤ 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: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	graded grid	$\Delta z_{Zoom}(1)$: 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
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
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.				

7.5 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.

7.6 Power Drift Monitoring

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



8. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1107	Mar. 08, 2019	Mar. 06, 2021
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	4d167	Nov. 25, 2019	Nov. 23, 2021
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1112	Mar. 07, 2019	Mar. 05, 2021
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d041	Sep. 11, 2018	Sep. 08, 2021
SPEAG	2300MHz System Validation Kit ⁽²⁾	D2300V2	1006	Jan. 28, 2019	Jan. 26, 2021
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	929	Nov. 21, 2019	Nov. 19, 2021
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1008	Aug. 31, 2018	Aug. 28, 2021
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1014	Jan. 29, 2019	Jan. 27, 2021
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1006	Mar. 05, 2019	Mar. 03, 2021
SPEAG	3900MHz System Validation Kit ⁽²⁾	D3900V2	1017	Apr. 29, 2019	Apr. 27, 2021
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Sep. 27, 2018	Sep. 24, 2021
SPEAG	Data Acquisition Electronics	DAE3	495	Jul. 21, 2020	Jul. 20, 2021
SPEAG	Data Acquisition Electronics	DAE4	699	Feb. 26, 2020	Feb. 25, 2021
SPEAG	Data Acquisition Electronics	DAE4	778	Jun. 04, 2020	Jun. 03, 2021
SPEAG	Data Acquisition Electronics	DAE4	914	Jun. 22, 2020	Jun. 21, 2021
SPEAG	Data Acquisition Electronics	DAE4	915	Jun. 22, 2020	Jun. 21, 2021
SPEAG	Data Acquisition Electronics	DAE4	1399	Feb. 18, 2020	Feb. 17, 2021
SPEAG	Data Acquisition Electronics	DAE4	1424	Jan. 24, 2020	Jan. 23, 2021
SPEAG	Data Acquisition Electronics	DAE4	1647	Jan. 07, 2021	Jan. 06, 2022
SPEAG	Dosimetric E-Field Probe	ES3DV3	3169	May. 27, 2020	May. 26, 2021
SPEAG	Dosimetric E-Field Probe	ES3DV3	3184	Sep. 23, 2020	Sep. 22, 2021
SPEAG	Dosimetric E-Field Probe	ES3DV3	3270	Sep. 23, 2020	Sep. 22, 2021
SPEAG	Dosimetric E-Field Probe	EX3DV4	3728	Feb. 04, 2020	Feb. 03, 2021
SPEAG	Dosimetric E-Field Probe	EX3DV4	3925	Sep. 24, 2020	Sep. 23, 2021
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Oct. 22, 2020	Oct. 21, 2021
SPEAG	Dosimetric E-Field Probe	EX3DV4	7625	Jan. 19, 2021	Jan. 18, 2022
RCPTWN	Thermometer	HTC-1	TM685-1	Nov. 10, 2020	Nov. 09, 2021
RCPTWN	Thermometer	HTC-1	TM560-2	Nov. 10, 2020	Nov. 09, 2021
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Nov. 10, 2020	Nov. 09, 2021
Keysight	Wireless Communication Test Set	E5515C	MY50267236	Mar. 18, 2020	Mar. 17, 2021
R&S	BT Base Station	CBT	100815	Feb. 15, 2020	Feb. 14, 2021
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Nov. 11, 2020	Nov. 10, 2021
Keysight	ENA Network Analyzer	E5071C	MY46101588	Jun. 10, 2020	Jun. 09, 2021
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 16, 2020	Sep. 15, 2021
LINE SEIKI	Digital Thermometer	DTM3000-spezial	2942	Nov. 06, 2020	Nov. 05, 2021
Anritsu	Power Meter	ML2495A	1419002	Aug. 19, 2020	Aug. 18, 2021
Anritsu	Power Sensor	MA2411B	1911176	Aug. 18, 2020	Aug. 17, 2021
Anritsu	Power Meter	ML2495A	1804003	Oct. 21, 2020	Oct. 20, 2021
Anritsu	Power Sensor	MA2411B	1726150	Oct. 21, 2020	Oct. 20, 2021
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jun. 30, 2020	Jun. 29, 2021
Anritsu	Spectrum Analyzer	N9010A	MY53470118	Mar. 12, 2020	Mar. 11, 2021
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 21, 2020	Oct. 20, 2021
Mini-Circuits	Power Amplifier	ZVE-8G+	479102029	Aug. 26, 2020	Aug. 25, 2021
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.

9. System Verification

9.1 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 ± 2°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>

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	22.4	0.902	42.800	0.89	41.90	1.35	2.15	±5	2021/1/6
750	22.2	0.895	43.500	0.89	41.90	0.56	3.82	±5	2021/1/14
750	22.5	0.903	41.800	0.89	41.90	1.46	-0.24	±5	2021/1/18
750	22.1	0.894	40.300	0.89	41.90	0.45	-3.82	±5	2021/1/21
835	22.4	0.874	40.900	0.90	41.50	-2.89	-1.45	±5	2021/1/6
835	22.5	0.875	41.100	0.90	41.50	-2.78	-0.96	±5	2021/1/16
835	22.5	0.938	41.500	0.90	41.50	4.22	0.00	±5	2021/1/18
835	22.5	0.921	41.100	0.90	41.50	2.33	-0.96	±5	2021/1/26
835	22.5	0.869	41.000	0.90	41.50	-3.44	-1.20	±5	2021/1/28
1750	22.6	1.340	39.400	1.37	40.10	-2.19	-1.75	±5	2021/1/7
1750	22.4	1.360	39.600	1.37	40.10	-0.73	-1.25	±5	2021/1/13
1750	22.5	1.360	40.100	1.37	40.10	-0.73	0.00	±5	2021/1/17
1750	22.5	1.380	41.300	1.37	40.10	0.73	2.99	±5	2021/1/27
1900	22.4	1.430	39.200	1.40	40.00	2.14	-2.00	±5	2021/1/6
1900	22.6	1.370	39.800	1.40	40.00	-2.14	-0.50	±5	2021/1/7
1900	22.4	1.400	40.000	1.40	40.00	0.00	0.00	±5	2021/1/13
1900	22.5	1.430	40.000	1.40	40.00	2.14	0.00	±5	2021/1/27
1900	22.4	1.440	38.700	1.40	40.00	2.86	-3.25	±5	2021/1/29
2300	22.7	1.640	40.700	1.67	39.50	-1.80	3.04	±5	2021/1/8
2300	22.5	1.660	39.600	1.67	39.50	-0.60	0.25	±5	2021/1/15
2300	22.5	1.650	40.700	1.67	39.50	-1.20	3.04	±5	2021/1/19
2600	22.7	1.920	39.000	1.96	39.00	-2.04	0.00	±5	2021/1/8
2600	22.5	2.010	38.400	1.96	39.00	2.55	-1.54	±5	2021/1/15
2600	22.5	1.990	38.700	1.96	39.00	1.53	-0.77	±5	2021/1/16
2600	22.5	2.020	39.600	1.96	39.00	3.06	1.54	±5	2021/1/19
2600	22.3	1.920	39.000	1.96	39.00	-2.04	0.00	±5	2021/1/25
3500	22.1	2.989	38.272	2.91	37.90	2.71	0.98	±5	2021/1/10
3500	22.6	2.924	38.192	2.91	37.90	0.48	0.77	±5	2021/2/9
3700	22.1	3.202	38.070	3.12	37.70	2.63	0.98	±5	2021/1/10
3700	22.6	3.134	37.990	3.12	37.70	0.45	0.77	±5	2021/2/9



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	22.4	0.897	40.600	0.89	41.90	0.79	-3.10	±5	2021/1/9
750	22.3	0.904	43.000	0.89	41.90	1.57	2.63	±5	2021/1/23
750	22.4	0.895	42.800	0.89	41.90	0.56	2.15	±5	2021/1/24
835	22.4	0.857	40.200	0.90	41.50	-4.78	-3.13	±5	2021/1/9
835	22.5	0.912	42.644	0.90	41.50	1.33	2.76	±5	2021/1/12
835	22.3	0.894	41.700	0.90	41.50	-0.67	0.48	±5	2021/1/23
835	22.2	0.932	42.400	0.90	41.50	3.56	2.17	±5	2021/1/30
1750	22.8	1.390	39.900	1.37	40.10	1.46	-0.50	±5	2021/1/12
1750	22.7	1.360	40.100	1.37	40.10	-0.73	0.00	±5	2021/1/22
1900	22.4	1.430	38.800	1.40	40.00	2.14	-3.00	±5	2021/1/10
1900	22.8	1.400	40.100	1.40	40.00	0.00	0.25	±5	2021/1/12
1900	22.7	1.450	39.400	1.40	40.00	3.57	-1.50	±5	2021/1/22
2600	22.4	1.890	37.600	1.96	39.00	-3.57	-3.59	±5	2021/1/10
2600	22.7	1.880	39.100	1.96	39.00	-4.08	0.26	±5	2021/1/11
2600	22.8	1.870	38.600	1.96	39.00	-4.59	-1.03	±5	2021/1/12
2600	22.5	1.990	38.700	1.96	39.00	1.53	-0.77	±5	2021/1/16
2600	22.7	2.020	39.800	1.96	39.00	3.06	2.05	±5	2021/1/22
2600	22.4	2.010	39.600	1.96	39.00	2.55	1.54	±5	2021/1/24
2600	22.3	1.920	39.000	1.96	39.00	-2.04	0.00	±5	2021/1/25
2600	22.1	1.980	37.600	1.96	39.00	1.02	-3.59	±5	2021/1/31
3500	22.7	2.996	37.971	2.91	37.90	2.96	0.19	±5	2021/1/8
3500	22.6	2.926	38.305	2.91	37.90	0.55	1.07	±5	2021/1/29
3500	22.1	3.020	37.800	2.91	37.90	3.78	-0.26	±5	2021/1/30
3700	22.7	3.210	37.769	3.12	37.70	2.88	0.18	±5	2021/1/8
3700	22.6	3.136	38.103	3.12	37.70	0.51	1.07	±5	2021/1/29
3700	22.1	3.169	37.554	3.12	37.70	1.57	-0.39	±5	2021/1/30
3900	22.7	3.423	37.581	3.33	37.51	2.79	0.19	±5	2021/1/8
3900	22.6	3.345	37.915	3.33	37.51	0.45	1.08	±5	2021/1/29
3900	22.1	3.330	37.295	3.33	37.51	0.00	-0.57	±5	2021/1/30



Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
2450	22.1	1.849	38.307	1.80	39.20	2.72	-2.28	±5	2021/1/9
2450	22.7	1.822	38.221	1.80	39.20	1.22	-2.50	±5	2021/1/13
2450	22.3	1.813	38.087	1.80	39.20	0.72	-2.84	±5	2021/1/14
2450	22.3	1.844	40.149	1.80	39.20	2.44	2.42	±5	2021/1/30
2450	22.2	1.833	40.036	1.80	39.20	1.83	2.13	±5	2021/2/2
2450	22.6	1.808	39.050	1.80	39.20	0.44	-0.38	±5	2021/2/5
5250	22.1	4.847	37.142	4.71	35.95	2.91	3.32	±5	2021/1/9
5250	22.2	4.710	36.406	4.71	35.95	0.00	1.27	±5	2021/1/11
5250	22.3	4.702	37.240	4.71	35.95	-0.17	3.59	±5	2021/1/12
5250	22.6	4.736	37.559	4.71	35.95	0.55	4.48	±5	2021/1/13
5250	22.8	4.789	37.562	4.71	35.95	1.68	4.48	±5	2021/1/14
5250	22.1	4.710	37.376	4.71	35.95	0.00	3.97	±5	2021/1/29
5250	22.3	4.738	37.471	4.71	35.95	0.59	4.23	±5	2021/1/30
5250	22.7	4.698	37.158	4.71	35.95	-0.25	3.36	±5	2021/2/1
5250	22.8	4.591	35.843	4.71	35.95	-2.53	-0.30	±5	2021/2/2
5250	22.1	4.771	36.809	4.71	35.95	1.30	2.39	±5	2021/2/3
5600	22.1	5.227	36.631	5.07	35.50	3.10	3.19	±5	2021/1/9
5600	22.2	5.077	35.855	5.07	35.50	0.14	1.00	±5	2021/1/11
5600	22.3	5.086	36.682	5.07	35.50	0.32	3.33	±5	2021/1/12
5600	22.6	5.122	37.000	5.07	35.50	1.03	4.23	±5	2021/1/13
5600	22.8	5.179	37.003	5.07	35.50	2.15	4.23	±5	2021/1/14
5600	22.3	5.124	36.913	5.07	35.50	1.07	3.98	±5	2021/1/30
5600	22.7	5.081	36.600	5.07	35.50	0.22	3.10	±5	2021/2/1
5750	22.1	5.397	36.448	5.22	35.35	3.39	3.11	±5	2021/1/9
5750	22.2	5.226	35.651	5.22	35.35	0.11	0.85	±5	2021/1/11
5750	22.3	5.228	36.497	5.22	35.35	0.15	3.24	±5	2021/1/12
5750	22.6	5.265	36.816	5.22	35.35	0.86	4.15	±5	2021/1/13
5750	22.8	5.324	36.819	5.22	35.35	1.99	4.16	±5	2021/1/14
5750	22.1	5.218	36.657	5.22	35.35	-0.04	3.70	±5	2021/1/29
5750	22.3	5.267	36.729	5.22	35.35	0.90	3.90	±5	2021/1/30
5750	22.7	5.222	36.416	5.22	35.35	0.04	3.02	±5	2021/2/1

9.2 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 Portraitized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2021/1/6	750	50	D750V3-1107	ES3DV3 - SN3169	DAE4 Sn915	0.42	8.32	8.4	0.96	0.278	5.61	5.56	-0.89
2021/1/14	750	250	D750V3-1107	ES3DV3 - SN3169	DAE4 Sn915	2.15	8.32	8.6	3.37	1.45	5.61	5.8	3.39
2021/1/18	750	250	D750V3-1107	ES3DV3 - SN3169	DAE4 Sn915	2.17	8.32	8.68	4.33	1.46	5.61	5.84	4.10
2021/1/21	750	50	D750V3-1107	ES3DV3 - SN3169	DAE4 Sn915	0.417	8.32	8.34	0.24	0.276	5.61	5.52	-1.60
2021/1/6	835	50	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn915	0.525	9.55	10.5	9.95	0.340	6.21	6.8	9.50
2021/1/16	835	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn915	2.46	9.55	9.84	3.04	1.61	6.21	6.44	3.70
2021/1/18	835	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn915	2.32	9.55	9.28	-2.83	1.45	6.21	5.8	-6.60
2021/1/26	835	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn915	2.62	9.55	10.48	9.74	1.70	6.21	6.8	9.50
2021/1/28	835	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn915	2.44	9.55	9.76	2.20	1.60	6.21	6.4	3.06
2021/1/7	1750	50	D1750V2-1112	ES3DV3 - SN3169	DAE4 Sn915	1.94	36.70	38.8	5.72	1.05	19.40	21	8.25
2021/1/13	1750	50	D1750V2-1112	ES3DV3 - SN3169	DAE4 Sn915	1.96	36.70	39.2	6.81	1.06	19.40	21.2	9.28
2021/1/17	1750	250	D1750V2-1112	ES3DV3 - SN3169	DAE4 Sn915	8.83	36.70	35.32	-3.76	4.71	19.40	18.84	-2.89
2021/1/27	1750	50	D1750V2-1112	ES3DV3 - SN3169	DAE4 Sn915	1.98	36.70	39.6	7.90	1.06	19.40	21.2	9.28
2021/1/6	1900	50	D1900V2-5d041	ES3DV3 - SN3169	DAE4 Sn915	2.20	40.20	44	9.45	1.16	21.20	23.2	9.43
2021/1/7	1900	50	D1900V2-5d041	ES3DV3 - SN3169	DAE4 Sn915	2.11	40.20	42.2	4.98	1.11	21.20	22.2	4.72
2021/1/13	1900	50	D1900V2-5d041	ES3DV3 - SN3169	DAE4 Sn915	2.15	40.20	43	6.97	1.13	21.20	22.6	6.60
2021/1/27	1900	50	D1900V2-5d041	ES3DV3 - SN3169	DAE4 Sn915	2.20	40.20	44	9.45	1.16	21.20	23.2	9.43
2021/1/29	1900	50	D1900V2-5d041	ES3DV3 - SN3169	DAE4 Sn915	2.21	40.20	44.2	9.95	1.16	21.20	23.2	9.43
2021/1/8	2300	50	D2300V2-1006	ES3DV3 - SN3169	DAE4 Sn915	2.51	48.70	50.2	3.08	1.22	23.20	24.4	5.17
2021/1/15	2300	250	D2300V2-1006	ES3DV3 - SN3169	DAE4 Sn915	12.00	48.70	48	-1.44	5.78	23.20	23.12	-0.34
2021/1/19	2300	50	D2300V2-1006	ES3DV3 - SN3169	DAE4 Sn915	2.48	48.70	49.6	1.85	1.22	23.20	24.4	5.17
2021/1/8	2600	50	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	3.02	56.40	60.4	7.09	1.39	25.30	27.8	9.88
2021/1/15	2600	250	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	14.00	56.40	56	-0.71	6.23	25.30	24.92	-1.50
2021/1/16	2600	250	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	13.90	56.40	55.6	-1.42	6.18	25.30	24.72	-2.29
2021/1/19	2600	250	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	14.10	56.40	56.4	0.00	6.27	25.30	25.08	-0.87
2021/1/25	2600	50	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	3.02	56.40	60.4	7.09	1.39	25.30	27.8	9.88
2021/1/10	3500	50	D3500V2-1014	EX3DV4 - SN3925	DAE4 Sn778	3.17	67.90	63.4	-6.63	1.17	25.60	23.4	-8.59
2021/2/9	3500	100	D3500V2-1014	EX3DV4 - SN7625	DAE4 Sn1647	6.31	67.90	63.1	-7.07	2.35	25.60	23.5	-8.20
2021/1/10	3700	100	D3700V2-1006	EX3DV4 - SN3925	DAE4 Sn778	6.87	67.30	68.7	2.08	2.48	24.50	24.8	1.22
2021/2/9	3700	100	D3700V2-1006	EX3DV4 - SN7625	DAE4 Sn1647	6.90	67.30	69	2.53	2.48	24.50	24.8	1.22



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 (%)
2021/1/9	750	50	D750V3-1107	ES3DV3 - SN3169	DAE4 Sn915	0.418	8.32	8.36	0.48	0.277	5.61	5.54	-1.25
2021/1/23	750	50	D750V3-1107	ES3DV3 - SN3169	DAE4 Sn915	0.421	8.32	8.42	1.20	0.279	5.61	5.58	-0.53
2021/1/24	750	50	D750V3-1107	ES3DV3 - SN3169	DAE4 Sn915	0.417	8.32	8.34	0.24	0.276	5.61	5.52	-1.60
2021/1/9	835	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn915	2.44	9.55	9.76	2.20	1.61	6.21	6.44	3.70
2021/1/12	835	250	D835V2-4d167	ES3DV3 - SN3184	DAE4 Sn1424	2.51	9.55	10.04	5.13	1.66	6.21	6.64	6.92
2021/1/23	835	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn915	2.51	9.55	10.04	5.13	1.65	6.21	6.6	6.28
2021/1/30	835	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn915	2.62	9.55	10.48	9.74	1.69	6.21	6.76	8.86
2021/1/12	1750	250	D1750V2-1112	ES3DV3 - SN3169	DAE4 Sn915	9.01	36.70	36.04	-1.80	4.80	19.40	19.2	-1.03
2021/1/22	1750	250	D1750V2-1112	ES3DV3 - SN3169	DAE4 Sn915	8.83	36.70	35.32	-3.76	4.71	19.40	18.84	-2.89
2021/1/10	1900	50	D1900V2-5d041	ES3DV3 - SN3169	DAE4 Sn915	2.20	40.20	44	9.45	1.16	21.20	23.2	9.43
2021/1/12	1900	50	D1900V2-5d041	ES3DV3 - SN3169	DAE4 Sn915	2.15	40.20	43	6.97	1.14	21.20	22.8	7.55
2021/1/22	1900	50	D1900V2-5d041	ES3DV3 - SN3169	DAE4 Sn915	1.89	40.20	37.8	-5.97	0.956	21.20	19.12	-9.81
2021/1/10	2600	50	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	2.97	56.40	59.4	5.32	1.36	25.30	27.2	7.51
2021/1/11	2600	50	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	2.96	56.40	59.2	4.96	1.36	25.30	27.2	7.51
2021/1/12	2600	50	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	2.94	56.40	58.8	4.26	1.35	25.30	27	6.72
2021/1/16	2600	250	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	13.90	56.40	55.6	-1.42	6.18	25.30	24.72	-2.29
2021/1/22	2600	250	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	14.10	56.40	56.4	0.00	6.28	25.30	25.12	-0.71
2021/1/24	2600	50	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	3.09	56.40	61.8	9.57	1.39	25.30	27.8	9.88
2021/1/25	2600	50	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	3.02	56.40	60.4	7.09	1.39	25.30	27.8	9.88
2021/1/31	2600	50	D2600V2-1008	ES3DV3 - SN3169	DAE4 Sn915	3.09	56.40	61.8	9.57	1.39	25.30	27.8	9.88
2021/1/8	3500	100	D3500V2-1014	EX3DV4 - SN3931	DAE4 Sn699	6.97	67.90	69.7	2.65	2.57	25.60	25.7	0.39
2021/1/29	3500	50	D3500V2-1014	EX3DV4 - SN3931	DAE4 Sn699	3.50	67.90	70	3.09	1.32	25.60	26.4	3.13
2021/1/30	3500	50	D3500V2-1014	EX3DV4 - SN3931	DAE4 Sn699	3.61	67.90	72.2	6.33	1.36	25.60	27.2	6.25
2021/1/8	3700	100	D3700V2-1006	EX3DV4 - SN3931	DAE4 Sn699	6.65	67.30	66.5	-1.19	2.37	24.50	23.7	-3.27
2021/1/29	3700	50	D3700V2-1006	EX3DV4 - SN3931	DAE4 Sn699	3.35	67.30	67	-0.45	1.23	24.50	24.6	0.41
2021/1/30	3700	50	D3700V2-1006	EX3DV4 - SN3931	DAE4 Sn699	3.39	67.30	67.8	0.74	1.25	24.50	25	2.04
2021/1/8	3900	100	D3900V2-1017-3900	EX3DV4 - SN3931	DAE4 Sn699	7.15	69.50	71.5	2.88	2.59	24.20	25.9	7.02
2021/1/29	3900	100	D3900V2-1017-3900	EX3DV4 - SN3931	DAE4 Sn699	6.99	69.50	69.9	0.58	2.53	24.20	25.3	4.55
2021/1/30	3900	100	D3900V2-1017-3900	EX3DV4 - SN3931	DAE4 Sn699	6.96	69.50	69.6	0.14	2.52	24.20	25.2	4.13

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 (%)
2021/1/9	2450	250	D2450V2-929	EX3DV4 - SN3728	DAE4 Sn1399	14.20	53.10	56.8	6.97	6.54	24.70	26.16	5.91
2021/1/13	2450	250	D2450V2-929	ES3DV3 - SN3184	DAE4 Sn914	13.80	53.10	55.2	3.95	6.74	24.70	26.96	9.15
2021/1/14	2450	250	D2450V2-929	ES3DV3 - SN3184	DAE4 Sn914	13.70	53.10	54.8	3.20	6.71	24.70	26.84	8.66
2021/1/30	2450	50	D2450V2-929	EX3DV4 - SN3925	DAE4 Sn778	2.42	53.10	48.4	-8.85	1.17	24.70	23.4	-5.26
2021/2/2	2450	50	D2450V2-929	EX3DV4 - SN3931	DAE4 Sn699	2.73	53.10	54.6	2.82	1.31	24.70	26.2	6.07
2021/2/5	2450	250	D2450V2-929	ES3DV3 - SN3270	DAE3 Sn495	13.90	53.10	55.6	4.71	6.41	24.70	25.64	3.81
2021/1/9	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN3728	DAE4 Sn1399	7.88	80.70	78.8	-2.35	2.24	23.20	22.4	-3.45
2021/1/11	5250	50	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn699	3.92	80.70	78.4	-2.85	1.13	23.20	22.6	-2.59
2021/1/12	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn699	7.87	80.70	78.7	-2.48	2.28	23.20	22.8	-1.72
2021/1/13	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn699	7.93	80.70	79.3	-1.73	2.29	23.20	22.9	-1.29
2021/1/14	5250	50	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn699	3.99	80.70	79.8	-1.12	1.15	23.20	23	-0.86
2021/1/29	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn699	8.18	80.70	81.8	1.36	2.34	23.20	23.4	0.86
2021/1/30	5250	50	D5GHzV2-1006-5250	EX3DV4 - SN3925	DAE4 Sn778	4.34	80.70	86.8	7.56	1.25	23.20	25	7.76
2021/2/1	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn699	8.03	80.70	80.3	-0.50	2.29	23.20	22.9	-1.29
2021/2/2	5250	50	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn778	3.82	80.70	76.4	-5.33	1.10	23.20	22	-5.17
2021/2/3	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN3931	DAE4 Sn778	8.42	80.70	84.2	4.34	2.40	23.20	24	3.45
2021/1/9	5600	100	D5GHzV2-1006-5600	EX3DV4 - SN3728	DAE4 Sn1399	8.14	83.30	81.4	-2.28	2.30	23.80	23	-3.36
2021/1/11	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN3931	DAE4 Sn699	4.42	83.30	88.4	6.12	1.26	23.80	25.2	5.88
2021/1/12	5600	100	D5GHzV2-1006-5600	EX3DV4 - SN3931	DAE4 Sn699	8.77	83.30	87.7	5.28	2.51	23.80	25.1	5.46
2021/1/13	5600	100	D5GHzV2-1006-5600	EX3DV4 - SN3931	DAE4 Sn699	8.83	83.30	88.3	6.00	2.53	23.80	25.3	6.30
2021/1/14	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN3931	DAE4 Sn699	4.50	83.30	90	8.04	1.28	23.80	25.6	7.56
2021/1/30	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN3925	DAE4 Sn778	4.38	83.30	87.6	5.16	1.25	23.80	25	5.04
2021/2/1	5600	100	D5GHzV2-1006-5600	EX3DV4 - SN3931	DAE4 Sn699	8.36	83.30	83.6	0.36	2.31	23.80	23.1	-2.94
2021/1/9	5750	100	D5GHzV2-1006-5750	EX3DV4 - SN3728	DAE4 Sn1399	8.15	80.40	81.5	1.37	2.31	22.90	23.1	0.87
2021/1/11	5750	50	D5GHzV2-1006-5750	EX3DV4 - SN3931	DAE4 Sn699	4.14	80.40	82.8	2.99	1.17	22.90	23.4	2.18
2021/1/12	5750	100	D5GHzV2-1006-5750	EX3DV4 - SN3931	DAE4 Sn699	8.35	80.40	83.5	3.86	2.40	22.90	24	4.80
2021/1/13	5750	100	D5GHzV2-1006-5750	EX3DV4 - SN3931	DAE4 Sn699	8.41	80.40	84.1	4.60	2.42	22.90	24.2	5.68
2021/1/14	5750	50	D5GHzV2-1006-5750	EX3DV4 - SN3931	DAE4 Sn699	4.21	80.40	84.2	4.73	1.19	22.90	23.8	3.93
2021/1/29	5750	100	D5GHzV2-1006-5750	EX3DV4 - SN3931	DAE4 Sn699	7.51	80.40	75.1	-6.59	2.09	22.90	20.9	-8.73
2021/1/30	5750	50	D5GHzV2-1006-5750	EX3DV4 - SN3925	DAE4 Sn778	3.81	80.40	76.2	-5.22	1.08	22.90	21.6	-5.68
2021/2/1	5750	100	D5GHzV2-1006-5750	EX3DV4 - SN3931	DAE4 Sn699	8.20	80.40	82	1.99	2.30	22.90	23	0.44

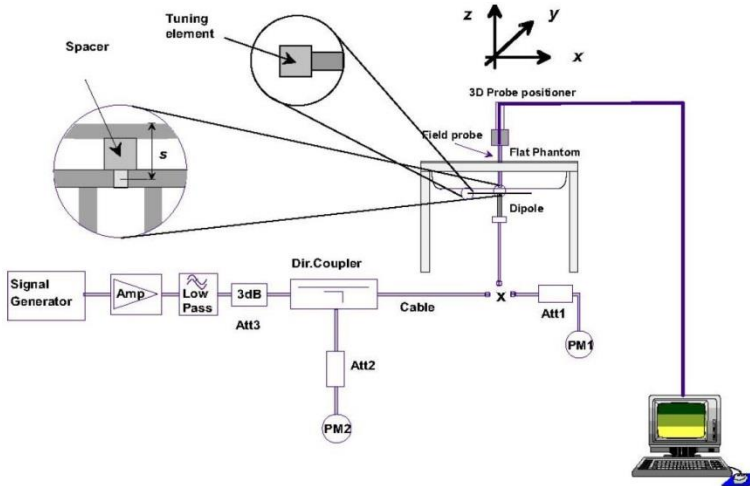


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

10. RF Exposure Positions

10.1 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 Portrait 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.

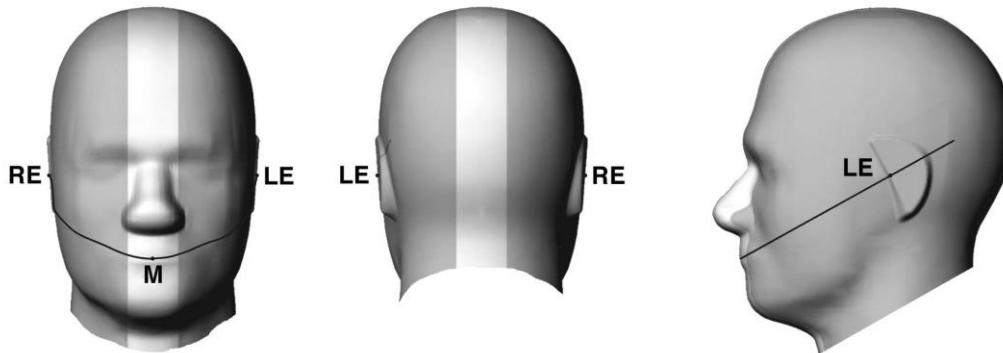


Fig 9.1.1 Front, back, and side views of SAM twin phantom

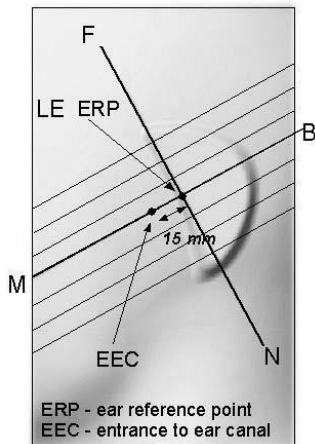


Fig 9.1.2 Close-up side view of phantom showing the ear region.

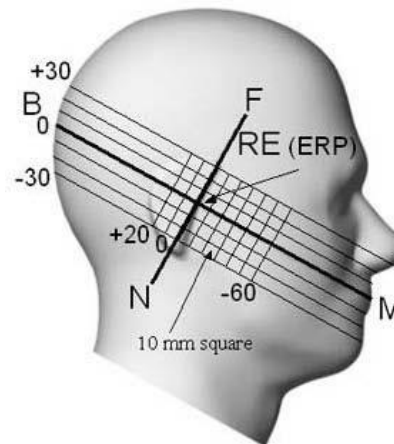


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

10.2 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 Portrait 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.

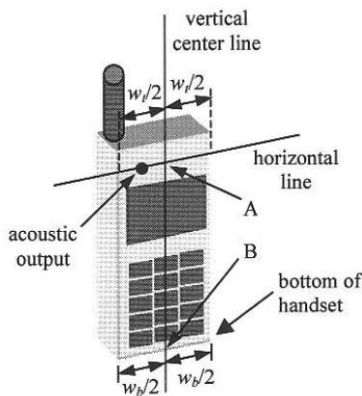


Fig 9.2.1 Handset vertical and horizontal reference lines—“fixed case”

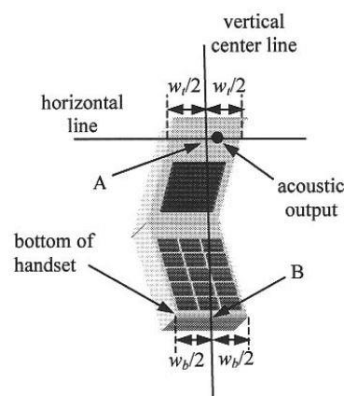


Fig 9.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

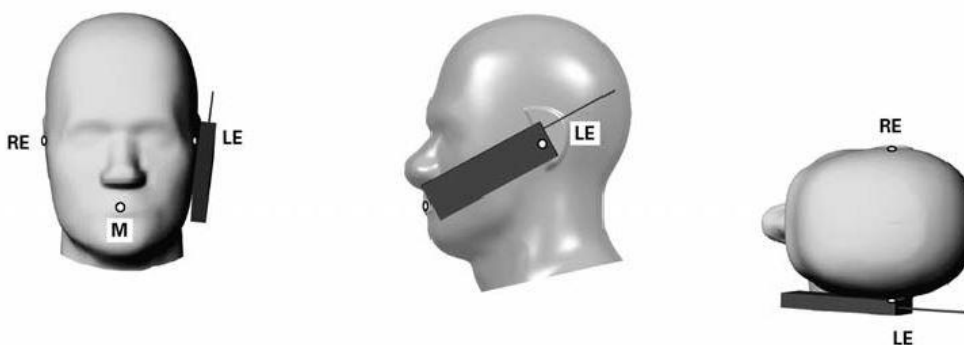


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

10.3 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

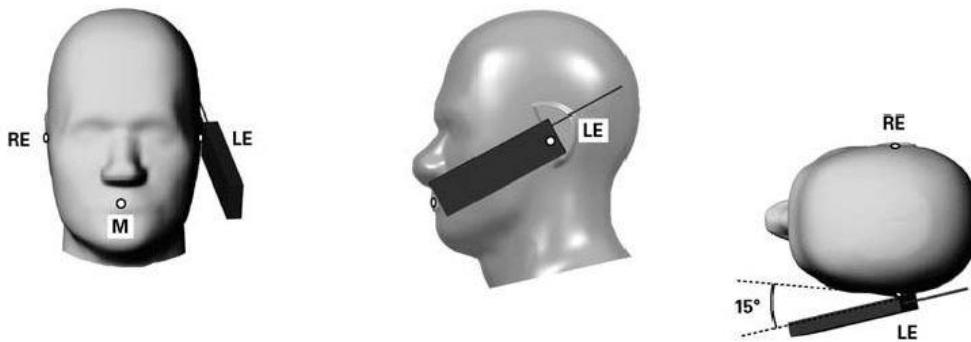


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

10.4 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 Portrait 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 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 test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

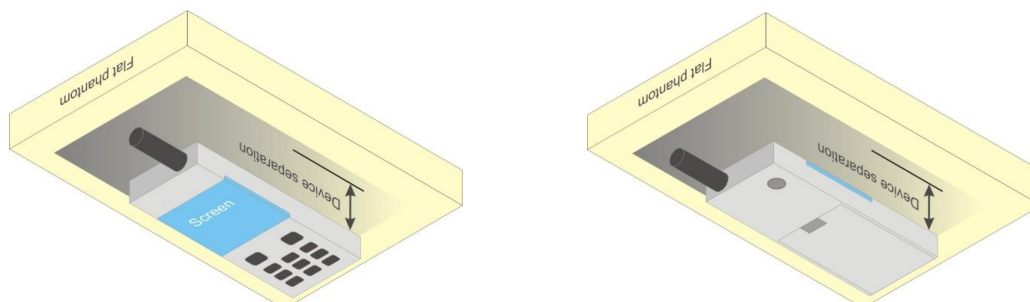


Fig 9.4 Body Worn Position



10.5 Product Specific Exposure

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

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

10.6 Wireless Router

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

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

11. Exposure Position Consideration

Distance of the Antenna to the EUT surface/edge						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
Ant 0	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
Ant 1	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm	≤ 25mm
Ant 2	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm
Ant 4	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
Ant 5	≤ 25mm	≤ 25mm	>25mm	>25mm	≤ 25mm	>25mm
Ant 6	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	>25mm	≤ 25mm
Ant 8	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm	≤ 25mm
Ant 9	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	>25mm	≤ 25mm
Ant 11	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm	≤ 25mm

Positions for SAR tests; Hotspot mode						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
Ant 0	Yes	Yes	No	Yes	Yes	Yes
Ant 1	Yes	Yes	No	Yes	No	Yes
Ant 2	Yes	Yes	Yes	No	Yes	Yes
Ant 4	Yes	Yes	Yes	No	Yes	No
Ant 5	Yes	Yes	No	No	Yes	No
Ant 6	Yes	Yes	Yes	No	No	Yes
Ant 8	Yes	Yes	No	Yes	No	Yes
Ant 9	Yes	Yes	Yes	No	No	Yes
Ant 11	Yes	Yes	No	Yes	No	Yes

General Note:

1. Detail antenna location refer to Appendix E antenna location
2. Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge



12. 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 Portrait 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 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
3. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is $\leq 1.2\text{ W/kg}$, SAR testing with a headset connected to the handset is not required.
4. Per KDB648474 D04v01r03, this device is considered a phablet since the display diagonal dimension $> 15.0\text{ cm}$ or an overall diagonal dimension $> 16.0\text{ cm}$. Therefore, phablet SAR tests are required when wireless mode does not apply or if wireless router 1g SAR $> 1.2\text{W/kg}$
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension $> 15.0\text{ cm}$ or an overall diagonal dimension $> 16.0\text{ cm}$, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2\text{ W/kg}$, 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 WWAN transmitter scaled to maximum output power is higher than 1.2W/kg of GSM1900, WCDMA B2/B4, LTE B7/B25/B30/B66 and FR1 n25 therefore product specific SAR is necessary.
6. For 5.3GHz / 5.5GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is $> 16\text{cm}$.

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 (2Tx 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 $\leq \frac{1}{4}\text{ dB}$ 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 / DC-HSDPA is $\leq \frac{1}{4}\text{ dB}$ higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}\text{ dB}$ higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

**LTE Note:**

1. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
2. 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.
3. 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.
4. 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.
5. For LTE B4/5/12/17/26/38/71 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.
6. LTE band 2/4/5/17/38/42 SAR test was covered by Band 25/66/26/12/41/48; 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:

- a. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
- b. SAR testing start with the largest channel bandwidth and measure SAR for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- c. 50% RB allocation for PI/2 BPSK SAR testing follows 1RB PI/2 BPSK allocation procedure
- d. PI/2 BPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- e. QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
- f. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
- g. When 5G FR1 UL MIMO is active which only support FR1 n41 SCS 30KHz with CP-OFDM, and the SAR test result include below SAR test result tables
- h. 5G FR1 n2 SAR test was covered by n25; according to TCB workshop, SAR test for overlapping bands can be reduced if
 1. The maximum output power, including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion.
 2. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

WLAN Note:

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



12.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 ANT0	GPRS (2 Tx slots)	Right Cheek	0mm	1/2	Portrait	-	189	836.4	32.96	34.50	1.426	-0.01	0.092	0.131
	GSM850 ANT0	GPRS (2 Tx slots)	Right Cheek	0mm	1/2	Portrait	-	128	824.2	32.88	34.50	1.452	0.19	0.069	0.100
	GSM850 ANT0	GPRS (2 Tx slots)	Right Cheek	0mm	1/2	Portrait	-	251	848.8	32.62	34.50	1.542	0.14	0.144	0.222
	GSM850 ANT0	GPRS (2 Tx slots)	Right Cheek	0mm	1/2	Portrait	V	251	848.8	32.62	34.50	1.542	0.14	0.141	0.217
	GSM850 ANT0	GPRS (2 Tx slots)	Right Tilted	0mm	1/2	Portrait	-	189	836.4	32.96	34.50	1.426	-0.11	0.048	0.068
	GSM850 ANT0	GPRS (2 Tx slots)	Left Cheek	0mm	1/2	Portrait	-	189	836.4	32.96	34.50	1.426	-0.17	0.045	0.064
	GSM850 ANT0	GPRS (2 Tx slots)	Left Tilted	0mm	1/2	Portrait	-	189	836.4	32.96	34.50	1.426	0.19	0.041	0.058
	GSM850 ANT2	GPRS (2 Tx slots)	Right Cheek	0mm	1	Portrait	-	189	836.4	30.93	32.00	1.279	-0.15	0.858	1.098
	GSM850 ANT2	GPRS (2 Tx slots)	Right Cheek	0mm	1	Portrait	-	128	824.2	30.46	32.00	1.426	0.11	0.736	1.049
01	GSM850 ANT2	GPRS (2 Tx slots)	Right Cheek	0mm	1	Portrait	-	251	848.8	30.67	32.00	1.358	-0.19	0.821	1.115
	GSM850 ANT2	GPRS (2 Tx slots)	Right Cheek	0mm	1	Portrait	V	251	848.8	30.67	32.00	1.358	-0.19	0.749	1.017
	GSM850 ANT2	GPRS (2 Tx slots)	Right Tilted	0mm	1	Portrait	-	189	836.4	30.93	32.00	1.279	-0.15	0.546	0.699
	GSM850 ANT2	GPRS (2 Tx slots)	Left Cheek	0mm	1	Portrait	-	189	836.4	30.93	32.00	1.279	-0.14	0.855	1.094
	GSM850 ANT2	GPRS (2 Tx slots)	Left Cheek	0mm	1	Portrait	-	128	824.2	30.46	32.00	1.426	0.01	0.753	1.073
	GSM850 ANT2	GPRS (2 Tx slots)	Left Cheek	0mm	1	Portrait	-	251	848.8	30.67	32.00	1.358	-0.02	0.801	1.088
	GSM850 ANT2	GPRS (2 Tx slots)	Left Tilted	0mm	1	Portrait	-	189	836.4	30.93	32.00	1.279	0.05	0.555	0.710
	GSM850 ANT2	GPRS (2 Tx slots)	Right Cheek	0mm	2	Portrait	-	189	836.4	28.58	29.50	1.236	-0.19	0.490	0.606
	GSM850 ANT2	GPRS (2 Tx slots)	Right Cheek	0mm	2	Portrait	-	128	824.2	28.37	29.50	1.297	0.13	0.501	0.650
	GSM850 ANT2	GPRS (2 Tx slots)	Right Cheek	0mm	2	Portrait	-	251	848.8	27.94	29.50	1.432	-0.12	0.457	0.655
	GSM850 ANT2	GPRS (2 Tx slots)	Right Tilted	0mm	2	Portrait	-	189	836.4	28.58	29.50	1.236	-0.06	0.302	0.373
	GSM850 ANT2	GPRS (2 Tx slots)	Left Cheek	0mm	2	Portrait	-	189	836.4	28.58	29.50	1.236	-0.18	0.479	0.592
	GSM850 ANT2	GPRS (2 Tx slots)	Left Tilted	0mm	2	Portrait	-	189	836.4	28.58	29.50	1.236	0.03	0.413	0.510
	GSM1900 ANT1	GPRS (2 Tx slots)	Right Cheek	0mm	1/2	Portrait	-	661	1880	30.24	31.50	1.337	-0.04	0.045	0.060
	GSM1900 ANT1	GPRS (2 Tx slots)	Right Tilted	0mm	1/2	Portrait	-	661	1880	30.24	31.50	1.337	0	0.001	0.001
	GSM1900 ANT1	GPRS (2 Tx slots)	Left Cheek	0mm	1/2	Portrait	-	661	1880	30.24	31.50	1.337	0.17	0.052	0.070
	GSM1900 ANT1	GPRS (2 Tx slots)	Left Cheek	0mm	1/2	Portrait	-	512	1850.2	29.75	31.50	1.496	-0.11	0.051	0.076
02	GSM1900 ANT1	GPRS (2 Tx slots)	Left Cheek	0mm	1/2	Portrait	-	810	1909.8	30.12	31.50	1.374	0.18	0.057	0.078
	GSM1900 ANT1	GPRS (2 Tx slots)	Left Tilted	0mm	1/2	Portrait	-	661	1880	30.24	31.50	1.337	0	0.001	0.001



<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 ANT1	RMC 12.2Kbps	Right Cheek	0mm	1/2	Portrait	-	9538	1907.6	24.02	25.50	1.406	0.09	0.078	0.110
	WCDMA II ANT1	RMC 12.2Kbps	Right Cheek	0mm	1/2	Portrait	-	9262	1852.4	23.88	25.50	1.452	-0.05	0.061	0.089
	WCDMA II ANT1	RMC 12.2Kbps	Right Cheek	0mm	1/2	Portrait	-	9400	1880	23.82	25.50	1.472	0.17	0.068	0.100
	WCDMA II ANT1	RMC 12.2Kbps	Right Tilted	0mm	1/2	Portrait	-	9538	1907.6	24.02	25.50	1.406	-0.13	0.046	0.065
	WCDMA II ANT1	RMC 12.2Kbps	Left Cheek	0mm	1/2	Portrait	-	9538	1907.6	24.02	25.50	1.406	0.18	0.077	0.108
	WCDMA II ANT1	RMC 12.2Kbps	Left Tilted	0mm	1/2	Portrait	-	9538	1907.6	24.02	25.50	1.406	0.08	0.045	0.063
	WCDMA IV ANT1	RMC 12.2Kbps	Right Cheek	0mm	1/2	Portrait	-	1413	1732.6	24.10	25.50	1.380	0.12	0.075	0.104
	WCDMA IV ANT1	RMC 12.2Kbps	Right Tilted	0mm	1/2	Portrait	-	1413	1732.6	24.10	25.50	1.380	0.16	0.051	0.070
04	WCDMA IV ANT1	RMC 12.2Kbps	Left Cheek	0mm	1/2	Portrait	-	1413	1732.6	24.10	25.50	1.380	0.04	0.117	0.162
	WCDMA IV ANT1	RMC 12.2Kbps	Left Cheek	0mm	1/2	Portrait	V	1413	1732.6	24.10	25.50	1.380	0.04	0.078	0.108
	WCDMA IV ANT1	RMC 12.2Kbps	Left Cheek	0mm	1/2	Portrait	-	1312	1712.4	23.99	25.50	1.416	-0.11	0.102	0.144
	WCDMA IV ANT1	RMC 12.2Kbps	Left Cheek	0mm	1/2	Portrait	-	1513	1752.6	24.05	25.50	1.396	0.09	0.083	0.116
	WCDMA IV ANT1	RMC 12.2Kbps	Left Tilted	0mm	1/2	Portrait	-	1413	1732.6	24.10	25.50	1.380	-0.12	0.001	0.001
	WCDMA V ANT0	RMC 12.2Kbps	Right Cheek	0mm	1/2	Portrait	-	4182	836.4	24.73	25.50	1.194	0.01	0.052	0.062
	WCDMA V ANT0	RMC 12.2Kbps	Right Cheek	0mm	1/2	Portrait	-	4132	826.4	23.89	25.50	1.449	0.01	0.029	0.042
	WCDMA V ANT0	RMC 12.2Kbps	Right Cheek	0mm	1/2	Portrait	-	4233	846.6	24.32	25.50	1.312	0.08	0.064	0.084
	WCDMA V ANT0	RMC 12.2Kbps	Right Tilted	0mm	1/2	Portrait	-	4182	836.4	24.73	25.50	1.194	0	0.001	0.001
	WCDMA V ANT0	RMC 12.2Kbps	Left Cheek	0mm	1/2	Portrait	-	4182	836.4	24.73	25.50	1.194	0	0.001	0.001
	WCDMA V ANT0	RMC 12.2Kbps	Left Tilted	0mm	1/2	Portrait	-	4182	836.4	24.73	25.50	1.194	0	0.001	0.001
	WCDMA V ANT2	RMC 12.2Kbps	Right Cheek	0mm	1	Portrait	-	4182	836.4	24.73	25.00	1.064	0.03	0.803	0.854
	WCDMA V ANT2	RMC 12.2Kbps	Right Cheek	0mm	1	Portrait	-	4132	826.4	23.89	25.00	1.291	0.09	0.572	0.739
	WCDMA V ANT2	RMC 12.2Kbps	Right Cheek	0mm	1	Portrait	-	4233	846.6	24.32	25.00	1.169	0.1	0.760	0.889
	WCDMA V ANT2	RMC 12.2Kbps	Right Tilted	0mm	1	Portrait	-	4182	836.4	24.73	25.00	1.064	0.09	0.573	0.610
	WCDMA V ANT2	RMC 12.2Kbps	Left Cheek	0mm	1	Portrait	-	4182	836.4	24.73	25.00	1.064	0.02	0.911	0.969
	WCDMA V ANT2	RMC 12.2Kbps	Left Cheek	0mm	1	Portrait	-	4132	826.4	23.89	25.00	1.291	-0.13	0.649	0.838
05	WCDMA V ANT2	RMC 12.2Kbps	Left Cheek	0mm	1	Portrait	-	4233	846.6	24.32	25.00	1.169	0.02	0.862	1.008
	WCDMA V ANT2	RMC 12.2Kbps	Left Tilted	0mm	1	Portrait	-	4182	836.4	24.73	25.00	1.064	0.15	0.579	0.616
	WCDMA V ANT2	RMC 12.2Kbps	Right Cheek	0mm	2	Portrait	-	4182	836.4	21.77	22.50	1.183	0.01	0.301	0.356
	WCDMA V ANT2	RMC 12.2Kbps	Right Tilted	0mm	2	Portrait	-	4182	836.4	21.77	22.50	1.183	0.13	0.215	0.254
	WCDMA V ANT2	RMC 12.2Kbps	Left Cheek	0mm	2	Portrait	-	4182	836.4	21.77	22.50	1.183	-0.05	0.425	0.503
	WCDMA V ANT2	RMC 12.2Kbps	Left Cheek	0mm	2	Portrait	-	4132	826.4	21.74	22.50	1.191	0.07	0.332	0.395
	WCDMA V ANT2	RMC 12.2Kbps	Left Cheek	0mm	2	Portrait	-	4233	846.6	21.67	22.50	1.211	0.16	0.345	0.418
	WCDMA V ANT2	RMC 12.2Kbps	Left Tilted	0mm	2	Portrait	-	4182	836.4	21.77	22.50	1.191	0.03	0.217	0.258



<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 7 ANT1	20M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	21100	2535	24.55	25.50	1.245	0.16	0.030	0.037
	LTE Band 7 ANT1	20M	QPSK	50	0	Right Cheek	0mm	1/2	Portrait	-	21100	2535	23.69	24.50	1.205	-0.09	0.028	0.034
	LTE Band 7 ANT1	20M	QPSK	1	0	Right Tilted	0mm	1/2	Portrait	-	21100	2535	24.55	25.50	1.245	-0.15	0.031	0.039
	LTE Band 7 ANT1	20M	QPSK	50	0	Right Tilted	0mm	1/2	Portrait	-	21100	2535	23.69	24.50	1.205	-0.15	0.011	0.013
06	LTE Band 7 ANT1	20M	QPSK	1	0	Left Cheek	0mm	1/2	Portrait	-	21100	2535	24.55	25.50	1.245	0.09	0.048	0.060
	LTE Band 7 ANT1	20M	QPSK	1	99	Left Cheek	0mm	1/2	Portrait	-	20850	2510	24.54	25.50	1.247	0.05	0.028	0.035
	LTE Band 7 ANT1	20M	QPSK	1	49	Left Cheek	0mm	1/2	Portrait	-	21350	2560	24.03	25.50	1.403	0.06	0.026	0.036
	LTE Band 7 ANT1	20M	QPSK	50	0	Left Cheek	0mm	1/2	Portrait	-	21100	2535	23.69	24.50	1.205	-0.05	0.034	0.041
	LTE Band 7 ANT1	20M	QPSK	1	0	Left Tilted	0mm	1/2	Portrait	-	21100	2535	24.55	25.50	1.245	0	0.001	0.001
	LTE Band 7 ANT1	20M	QPSK	50	0	Left Tilted	0mm	1/2	Portrait	-	21100	2535	23.69	24.50	1.205	0	0.001	0.001
	LTE Band 7C ANT1	20M	QPSK	1	0	Left Cheek	0mm	1/2	Portrait	-	21100	2535	24.38	25.50	1.294	0.15	0.045	0.058
	LTE Band 12 ANTO	10M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	23095	707.5	25.15	25.50	1.084	0.02	0.083	0.090
	LTE Band 12 ANTO	10M	QPSK	25	0	Right Cheek	0mm	1/2	Portrait	-	23095	707.5	24.25	24.50	1.059	0.16	0.067	0.071
	LTE Band 12 ANTO	10M	QPSK	1	0	Right Tilted	0mm	1/2	Portrait	-	23095	707.5	25.15	25.50	1.084	-0.08	0.035	0.038
	LTE Band 12 ANTO	10M	QPSK	25	0	Right Tilted	0mm	1/2	Portrait	-	23095	707.5	24.25	24.50	1.059	0.06	0.030	0.032
	LTE Band 12 ANTO	10M	QPSK	1	0	Left Cheek	0mm	1/2	Portrait	-	23095	707.5	25.15	25.50	1.084	-0.01	0.040	0.043
	LTE Band 12 ANTO	10M	QPSK	25	0	Left Cheek	0mm	1/2	Portrait	-	23095	707.5	24.25	24.50	1.059	-0.03	0.037	0.039
	LTE Band 12 ANTO	10M	QPSK	1	0	Left Tilted	0mm	1/2	Portrait	-	23095	707.5	25.15	25.50	1.084	0.11	0.031	0.034
	LTE Band 12 ANTO	10M	QPSK	25	0	Left Tilted	0mm	1/2	Portrait	-	23095	707.5	24.25	24.50	1.059	0	0.001	0.001
	LTE Band 12 ANT2	10M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	23095	707.5	25.15	25.50	1.084	0.15	0.316	0.343
	LTE Band 12 ANT2	10M	QPSK	25	0	Right Cheek	0mm	1/2	Portrait	-	23095	707.5	24.25	24.50	1.059	-0.05	0.268	0.284
	LTE Band 12 ANT2	10M	QPSK	1	0	Right Tilted	0mm	1/2	Portrait	-	23095	707.5	25.15	25.50	1.084	0.07	0.221	0.240
	LTE Band 12 ANT2	10M	QPSK	25	0	Right Tilted	0mm	1/2	Portrait	-	23095	707.5	24.25	24.50	1.059	-0.09	0.187	0.198
07	LTE Band 12 ANT2	10M	QPSK	1	0	Left Cheek	0mm	1/2	Portrait	-	23095	707.5	25.15	25.50	1.084	0.02	0.335	0.363
	LTE Band 12 ANT2	10M	QPSK	25	0	Left Cheek	0mm	1/2	Portrait	-	23095	707.5	24.25	24.50	1.059	-0.14	0.274	0.290
	LTE Band 12 ANT2	10M	QPSK	1	0	Left Tilted	0mm	1/2	Portrait	-	23095	707.5	25.15	25.50	1.084	-0.19	0.242	0.262
	LTE Band 12 ANT2	10M	QPSK	25	0	Left Tilted	0mm	1/2	Portrait	-	23095	707.5	24.25	24.50	1.059	-0.01	0.205	0.217
	LTE Band 13 ANTO	10M	QPSK	1	49	Right Cheek	0mm	1/2	Portrait	-	23230	782	24.25	25.50	1.334	0.04	0.079	0.105
	LTE Band 13 ANTO	10M	QPSK	25	25	Right Cheek	0mm	1/2	Portrait	-	23230	782	23.43	24.50	1.279	0.09	0.066	0.084
	LTE Band 13 ANTO	10M	QPSK	1	49	Right Tilted	0mm	1/2	Portrait	-	23230	782	24.25	25.50	1.334	0.06	0.041	0.055
	LTE Band 13 ANTO	10M	QPSK	25	25	Right Tilted	0mm	1/2	Portrait	-	23230	782	23.43	24.50	1.279	-0.06	0.033	0.042
	LTE Band 13 ANTO	10M	QPSK	1	49	Left Cheek	0mm	1/2	Portrait	-	23230	782	24.25	25.50	1.334	0.18	0.044	0.059
	LTE Band 13 ANTO	10M	QPSK	25	25	Left Cheek	0mm	1/2	Portrait	-	23230	782	23.43	24.50	1.279	0.08	0.048	0.061
	LTE Band 13 ANTO	10M	QPSK	1	49	Left Tilted	0mm	1/2	Portrait	-	23230	782	24.25	25.50	1.334	-0.13	0.034	0.045
	LTE Band 13 ANTO	10M	QPSK	25	25	Left Tilted	0mm	1/2	Portrait	-	23230	782	23.43	24.50	1.279	0.07	0.027	0.035
08	LTE Band 13 ANT2	10M	QPSK	1	49	Right Cheek	0mm	1	Portrait	-	23230	782	24.25	25.50	1.334	0.11	0.577	0.769
	LTE Band 13 ANT2	10M	QPSK	25	25	Right Cheek	0mm	1	Portrait	-	23230	782	23.43	24.50	1.279	0.19	0.476	0.609
	LTE Band 13 ANT2	10M	QPSK	1	49	Right Tilted	0mm	1	Portrait	-	23230	782	24.25	25.50	1.334	0.11	0.455	0.607
	LTE Band 13 ANT2	10M	QPSK	25	25	Right Tilted	0mm	1	Portrait	-	23230	782	23.43	24.50	1.279	-0.03	0.383	0.490
	LTE Band 13 ANT2	10M	QPSK	1	49	Left Cheek	0mm	1	Portrait	-	23230	782	24.25	25.50	1.334	0.15	0.545	0.727
	LTE Band 13 ANT2	10M	QPSK	25	25	Left Cheek	0mm	1	Portrait	-	23230	782	23.43	24.50	1.279	-0.08	0.456	0.583
	LTE Band 13 ANT2	10M	QPSK	1	49	Left Tilted	0mm	1	Portrait	-	23230	782	24.25	25.50	1.334	-0.03	0.450	0.600
	LTE Band 13 ANT2	10M	QPSK	25	25	Left Tilted	0mm	1	Portrait	-	23230	782	23.43	24.50	1.279	-0.06	0.379	0.485
	LTE Band 13 ANT2	10M	QPSK	1	49	Right Cheek	0mm	2	Portrait	-	23230	782	24.25	25.00	1.189	0.11	0.577	0.686
	LTE Band 13 ANT2	10M	QPSK	25	25	Right Cheek	0mm	2	Portrait	-	23230	782	23.43	24.50	1.279	0.19	0.476	0.609
	LTE Band 13 ANT2	10M	QPSK	1	49	Right Tilted	0mm	2	Portrait	-	23230	782	24.25	25.00	1.189	0.11	0.455	0.541
	LTE Band 13 ANT2	10M	QPSK	25	25	Right Tilted	0mm	2	Portrait	-	23230	782	23.43	24.50	1.279	-0.03	0.383	0.490
	LTE Band 13 ANT2	10M	QPSK	1	49	Left Cheek	0mm	2	Portrait	-	23230	782	24.25	25.00	1.189	0.15	0.545	0.648
	LTE Band 13 ANT2	10M	QPSK	25	25	Left Cheek	0mm	2	Portrait	-	23230	782	23.43	24.50	1.279	-0.08	0.456	0.583
	LTE Band 13 ANT2	10M	QPSK	1	49	Left Tilted	0mm	2	Portrait	-	23230	782	24.25	25.00	1.189	-0.03	0.450	0.535
	LTE Band 13 ANT2	10M	QPSK	25	25	Left Tilted	0mm	2	Portrait	-	23230	782	23.43	24.50	1.279	-0.06	0.379	0.485



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 25 ANT1	20M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	26140	1860	24.38	25.50	1.294	0.1	0.072	0.093
	LTE Band 25 ANT1	20M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	26340	1880	24.16	25.50	1.361	0.03	0.080	0.109
09	LTE Band 25 ANT1	20M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	26590	1905	23.89	25.50	1.449	0.14	0.084	0.122
	LTE Band 25 ANT1	20M	QPSK	50	24	Right Cheek	0mm	1/2	Portrait	-	26340	1880	23.48	24.50	1.265	0.04	0.053	0.067
	LTE Band 25 ANT1	20M	QPSK	1	0	Right Tilted	0mm	1/2	Portrait	-	26140	1860	24.38	25.50	1.294	0	0.001	0.001
	LTE Band 25 ANT1	20M	QPSK	50	24	Right Tilted	0mm	1/2	Portrait	-	26340	1880	23.48	24.50	1.265	0	0.001	0.001
	LTE Band 25 ANT1	20M	QPSK	1	0	Left Cheek	0mm	1/2	Portrait	-	26140	1860	24.38	25.50	1.294	0.13	0.060	0.078
	LTE Band 25 ANT1	20M	QPSK	50	24	Left Cheek	0mm	1/2	Portrait	-	26340	1880	23.48	24.50	1.265	-0.06	0.053	0.067
	LTE Band 25 ANT1	20M	QPSK	1	0	Left Tilted	0mm	1/2	Portrait	-	26140	1860	24.38	25.50	1.294	0	0.001	0.001
	LTE Band 25 ANT1	20M	QPSK	50	24	Left Tilted	0mm	1/2	Portrait	-	26340	1880	23.48	24.50	1.265	0	0.001	0.001
	LTE Band 26 ANT0	15M	QPSK	1	37	Right Cheek	0mm	1/2	Portrait	-	26865	831.5	24.50	25.50	1.259	-0.11	0.099	0.125
	LTE Band 26 ANT0	15M	QPSK	36	20	Right Cheek	0mm	1/2	Portrait	-	26865	831.5	23.63	24.50	1.222	-0.13	0.081	0.099
	LTE Band 26 ANT0	15M	QPSK	1	37	Right Tilted	0mm	1/2	Portrait	-	26865	831.5	24.50	25.50	1.259	-0.19	0.046	0.058
	LTE Band 26 ANT0	15M	QPSK	36	20	Right Tilted	0mm	1/2	Portrait	-	26865	831.5	23.63	24.50	1.222	-0.16	0.037	0.045
	LTE Band 26 ANT0	15M	QPSK	1	37	Left Cheek	0mm	1/2	Portrait	-	26865	831.5	24.50	25.50	1.259	0.1	0.041	0.052
	LTE Band 26 ANT0	15M	QPSK	36	20	Left Cheek	0mm	1/2	Portrait	-	26865	831.5	23.63	24.50	1.222	-0.11	0.037	0.045
	LTE Band 26 ANT0	15M	QPSK	1	37	Left Tilted	0mm	1/2	Portrait	-	26865	831.5	24.50	25.50	1.259	0.06	0.040	0.050
	LTE Band 26 ANT0	15M	QPSK	36	20	Left Tilted	0mm	1/2	Portrait	-	26865	831.5	23.63	24.50	1.222	0.12	0.001	0.001
	LTE Band 5B ANT0	10M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	20450	829	24.28	25.50	1.324	-0.04	0.073	0.097
10	LTE Band 26 ANT2	15M	QPSK	1	37	Right Cheek	0mm	1	Portrait	-	26865	831.5	24.50	25.00	1.122	-0.19	1.020	1.144
	LTE Band 26 ANT2	15M	QPSK	36	20	Right Cheek	0mm	1	Portrait	-	26865	831.5	23.63	24.50	1.222	0.06	0.765	0.935
	LTE Band 26 ANT2	15M	QPSK	75	0	Right Cheek	0mm	1	Portrait	-	26865	831.5	23.75	24.50	1.189	-0.1	0.816	0.970
	LTE Band 26 ANT2	15M	QPSK	1	37	Right Tilted	0mm	1	Portrait	-	26865	831.5	24.50	25.00	1.122	0.18	0.731	0.820
	LTE Band 26 ANT2	15M	QPSK	36	20	Right Tilted	0mm	1	Portrait	-	26865	831.5	23.63	24.50	1.222	-0.17	0.563	0.688
	LTE Band 26 ANT2	15M	QPSK	75	0	Right Tilted	0mm	1	Portrait	-	26865	831.5	23.75	24.50	1.189	-0.14	0.601	0.715
	LTE Band 26 ANT2	15M	QPSK	1	37	Left Cheek	0mm	1	Portrait	-	26865	831.5	24.50	25.00	1.122	-0.09	0.874	0.981
	LTE Band 26 ANT2	15M	QPSK	36	20	Left Cheek	0mm	1	Portrait	-	26865	831.5	23.63	24.50	1.222	-0.18	0.735	0.898
	LTE Band 26 ANT2	15M	QPSK	75	0	Left Cheek	0mm	1	Portrait	-	26865	831.5	23.75	24.50	1.189	-0.03	0.791	0.940
	LTE Band 26 ANT2	15M	QPSK	1	37	Left Tilted	0mm	1	Portrait	-	26865	831.5	24.50	25.00	1.122	-0.18	0.769	0.863
	LTE Band 26 ANT2	15M	QPSK	36	20	Left Tilted	0mm	1	Portrait	-	26865	831.5	23.63	24.50	1.222	-0.05	0.592	0.724
	LTE Band 26 ANT2	15M	QPSK	75	0	Left Tilted	0mm	1	Portrait	-	26865	831.5	23.75	24.50	1.189	-0.03	0.632	0.752
	LTE Band 5B ANT2	10M	QPSK	1	0	Right Cheek	0mm	1	Portrait	-	20450	829	24.28	25.00	1.180	-0.18	0.931	1.099
	LTE Band 26 ANT2	15M	QPSK	1	37	Right Cheek	0mm	2	Portrait	-	26865	831.5	22.03	22.50	1.114	0.15	0.575	0.641
	LTE Band 26 ANT2	15M	QPSK	36	20	Right Cheek	0mm	2	Portrait	-	26865	831.5	21.03	21.50	1.114	-0.03	0.431	0.480
	LTE Band 26 ANT2	15M	QPSK	1	37	Right Tilted	0mm	2	Portrait	-	26865	831.5	22.03	22.50	1.114	0.03	0.412	0.459
	LTE Band 26 ANT2	15M	QPSK	36	20	Right Tilted	0mm	2	Portrait	-	26865	831.5	21.03	21.50	1.114	-0.04	0.317	0.353
	LTE Band 26 ANT2	15M	QPSK	1	37	Left Cheek	0mm	2	Portrait	-	26865	831.5	22.03	22.50	1.114	-0.06	0.540	0.602
	LTE Band 26 ANT2	15M	QPSK	36	20	Left Cheek	0mm	2	Portrait	-	26865	831.5	21.03	21.50	1.114	0.1	0.526	0.586
	LTE Band 26 ANT2	15M	QPSK	1	37	Left Tilted	0mm	2	Portrait	-	26865	831.5	22.03	22.50	1.114	-0.03	0.433	0.482
	LTE Band 26 ANT2	15M	QPSK	36	20	Left Tilted	0mm	2	Portrait	-	26865	831.5	21.03	21.50	1.114	0.05	0.334	0.372
	LTE Band 5B ANT2	10M	QPSK	1	0	Right Cheek	0mm	2	Portrait	-	20575+20476	841.5	22.27	22.50	1.054	0.14	0.578	0.609
	LTE Band 30 ANT1	10M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	27710	2310	23.98	25.50	1.419	-0.13	0.037	0.053
	LTE Band 30 ANT1	10M	QPSK	25	25	Right Cheek	0mm	1/2	Portrait	-	27710	2310	23.02	24.50	1.406	0.18	0.031	0.044
	LTE Band 30 ANT1	10M	QPSK	1	0	Right Tilted	0mm	1/2	Portrait	-	27710	2310	23.98	25.50	1.419	-0.09	0.013	0.018
	LTE Band 30 ANT1	10M	QPSK	25	25	Right Tilted	0mm	1/2	Portrait	-	27710	2310	23.02	24.50	1.406	0.14	0.011	0.015
11	LTE Band 30 ANT1	10M	QPSK	1	0	Left Cheek	0mm	1/2	Portrait	-	27710	2310	23.98	25.50	1.419	0.18	0.048	0.068
	LTE Band 30 ANT1	10M	QPSK	25	25	Left Cheek	0mm	1/2	Portrait	-	27710	2310	23.02	24.50	1.406	-0.07	0.041	0.058
	LTE Band 30 ANT1	10M	QPSK	1	0	Left Tilted	0mm	1/2	Portrait	-	27710	2310	23.98	25.50	1.419	0.18	0.015	0.021
	LTE Band 30 ANT1	10M	QPSK	25	25	Left Tilted	0mm	1/2	Portrait	-	27710	2310	23.02	24.50	1.406	0.04	0.013	0.018
	LTE Band 66 ANT1	20M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	132322	1745	23.85	25.50	1.462	0.14	0.034	0.050
	LTE Band 66 ANT1	20M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	132072	1720	23.61	25.50	1.545	0.14	0.031	0.048
	LTE Band 66 ANT1	20M	QPSK	1	0	Right Cheek	0mm	1/2	Portrait	-	132572	1770	23.67	25.50	1.524	0.14	0.029	0.044



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	LTE Band 66 ANT1	20M	QPSK	50	0	Right Cheek	0mm	1/2	Portrait	-	132322	1745	22.85	24.50	1.462	0.07	0.022	0.032
	LTE Band 66 ANT1	20M	QPSK	1	0	Right Tilted	0mm	1/2	Portrait	-	132322	1745	23.85	25.50	1.462	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	50	0	Right Tilted	0mm	1/2	Portrait	-	132322	1745	22.85	24.50	1.462	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	1	0	Left Cheek	0mm	1/2	Portrait	-	132322	1745	23.85	25.50	1.462	-0.17	0.023	0.034
	LTE Band 66 ANT1	20M	QPSK	50	0	Left Cheek	0mm	1/2	Portrait	-	132322	1745	22.85	24.50	1.462	0.16	0.020	0.029
	LTE Band 66 ANT1	20M	QPSK	1	0	Left Tilted	0mm	1/2	Portrait	-	132322	1745	23.85	25.50	1.462	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	50	0	Left Tilted	0mm	1/2	Portrait	-	132322	1745	22.85	24.50	1.462	0	0.001	0.001
	LTE Band 66 ANT8	20M	QPSK	1	0	Right Cheek	0mm	2	Portrait	-	132322	1745	23.18	24.50	1.355	-0.18	0.052	0.070
	LTE Band 66 ANT8	20M	QPSK	50	0	Right Cheek	0mm	2	Portrait	-	132322	1745	22.25	23.50	1.334	-0.16	0.041	0.055
	LTE Band 66 ANT8	20M	QPSK	1	0	Right Tilted	0mm	2	Portrait	-	132322	1745	23.18	24.50	1.355	-0.05	0.045	0.061
	LTE Band 66 ANT8	20M	QPSK	50	0	Right Tilted	0mm	2	Portrait	-	132322	1745	22.25	23.50	1.334	-0.03	0.042	0.056
	LTE Band 66 ANT8	20M	QPSK	1	0	Left Cheek	0mm	2	Portrait	-	132322	1745	23.18	24.50	1.355	-0.17	0.094	0.127
	LTE Band 66 ANT8	20M	QPSK	1	0	Left Cheek	0mm	2	Portrait	-	132072	1720	23.14	24.50	1.368	0.01	0.096	0.131
12	LTE Band 66 ANT8	20M	QPSK	1	0	Left Cheek	0mm	2	Portrait	-	132572	1770	23.12	24.50	1.374	0.03	0.113	0.155
	LTE Band 66 ANT8	20M	QPSK	1	0	Left Cheek	0mm	2	Portrait	V	132572	1770	23.12	24.50	1.374	0.03	0.086	0.118
	LTE Band 66 ANT8	20M	QPSK	50	0	Left Cheek	0mm	2	Portrait	-	132322	1745	22.25	23.50	1.334	-0.12	0.078	0.104
	LTE Band 66 ANT8	20M	QPSK	1	0	Left Tilted	0mm	2	Portrait	-	132322	1745	23.18	24.50	1.355	-0.01	0.035	0.047
	LTE Band 66 ANT8	20M	QPSK	50	0	Left Tilted	0mm	2	Portrait	-	132322	1745	22.25	23.50	1.334	0	0.001	0.001
	LTE Band 71 ANT0	20M	QPSK	1	99	Right Cheek	0mm	1/2	Portrait	-	133322	683	25.35	25.50	1.035	0.05	0.068	0.070
	LTE Band 71 ANT0	20M	QPSK	50	50	Right Cheek	0mm	1/2	Portrait	-	133322	683	24.38	24.50	1.028	0.12	0.054	0.056
	LTE Band 71 ANT0	20M	QPSK	1	99	Right Tilted	0mm	1/2	Portrait	-	133322	683	25.35	25.50	1.035	-0.16	0.035	0.036
	LTE Band 71 ANT0	20M	QPSK	50	50	Right Tilted	0mm	1/2	Portrait	-	133322	683	24.38	24.50	1.028	0.09	0.029	0.030
	LTE Band 71 ANT0	20M	QPSK	1	99	Left Cheek	0mm	1/2	Portrait	-	133322	683	25.35	25.50	1.035	-0.18	0.042	0.043
	LTE Band 71 ANT0	20M	QPSK	50	50	Left Cheek	0mm	1/2	Portrait	-	133322	683	24.38	24.50	1.028	0.13	0.036	0.037
	LTE Band 71 ANT0	20M	QPSK	1	99	Left Tilted	0mm	1/2	Portrait	-	133322	683	25.35	25.50	1.035	-0.02	0.027	0.028
	LTE Band 71 ANT0	20M	QPSK	50	50	Left Tilted	0mm	1/2	Portrait	-	133322	683	24.38	24.50	1.028	0.03	0.027	0.028
	LTE Band 71 ANT2	20M	QPSK	1	99	Right Cheek	0mm	1/2	Portrait	-	133322	683	25.35	25.50	1.035	0.15	0.490	0.507
13	LTE Band 71 ANT2	20M	QPSK	50	50	Right Cheek	0mm	1/2	Portrait	-	133322	683	24.38	24.50	1.028	-0.09	0.559	0.575
	LTE Band 71 ANT2	20M	QPSK	1	99	Right Tilted	0mm	1/2	Portrait	-	133322	683	25.35	25.50	1.035	0.06	0.371	0.384
	LTE Band 71 ANT2	20M	QPSK	50	50	Right Tilted	0mm	1/2	Portrait	-	133322	683	24.38	24.50	1.028	-0.18	0.406	0.417
	LTE Band 71 ANT2	20M	QPSK	1	99	Left Cheek	0mm	1/2	Portrait	-	133322	683	25.35	25.50	1.035	0.04	0.466	0.482
	LTE Band 71 ANT2	20M	QPSK	50	50	Left Cheek	0mm	1/2	Portrait	-	133322	683	24.38	24.50	1.028	-0.08	0.507	0.521
	LTE Band 71 ANT2	20M	QPSK	1	99	Left Tilted	0mm	1/2	Portrait	-	133322	683	25.35	25.50	1.035	-0.17	0.383	0.396
	LTE Band 71 ANT2	20M	QPSK	50	50	Left Tilted	0mm	1/2	Portrait	-	133322	683	24.38	24.50	1.028	-0.05	0.427	0.439



<TDD LTE SAR>

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Test Position, Gap (mm), Output Power State, Device Mode, Aero Active Cooler, 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). Rows include data for LTE Band 41 ANT1 and LTE Band 48 ANT9/ANT11.



<5G NR SAR>

Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Output Power State, Device Mode, Aero Active Cooler, 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). Rows include test configurations for bands FR1 n5_Ant 0, FR1 n5_Ant 2, FR1 n7_Ant 1, and FR1 n12_Ant 0/2.



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
19	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Right Cheek	0mm	1/2	Portrait	-	376500	1882.5	23.12	24.50	1.374	0.05	0.067	0.092
	FR1 n25_Ant 1	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	1/2	Portrait	-	376500	1882.5	22.93	24.50	1.435	0.01	0.050	0.072
	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Right Tilted	0mm	1/2	Portrait	-	376500	1882.5	23.12	24.50	1.374	-0.11	0.001	0.001
	FR1 n25_Ant 1	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	1/2	Portrait	-	376500	1882.5	22.93	24.50	1.435	-0.02	0.001	0.001
	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Left Cheek	0mm	1/2	Portrait	-	376500	1882.5	23.12	24.50	1.374	0.06	0.064	0.088
	FR1 n25_Ant 1	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	1/2	Portrait	-	376500	1882.5	22.93	24.50	1.435	-0.09	0.049	0.071
	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Left Tilted	0mm	1/2	Portrait	-	376500	1882.5	23.12	24.50	1.374	-0.13	0.001	0.001
	FR1 n25_Ant 1	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	1/2	Portrait	-	376500	1882.5	22.93	24.50	1.435	-0.08	0.001	0.001
20	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	1	Portrait	-	519000	2595	20.84	21.50	1.164	-0.12	0.839	0.977
	FR1 n38_Ant 9	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	1	Portrait	-	519000	2595	20.83	21.50	1.167	0.13	0.818	0.955
	FR1 n38_Ant 9	40M	BPSK	100	0	DFT-30	Right Cheek	0mm	1	Portrait	-	519000	2595	20.77	21.50	1.183	-0.12	0.819	0.969
	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	1	Portrait	-	519000	2595	20.84	21.50	1.164	0.15	0.295	0.344
	FR1 n38_Ant 9	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	1	Portrait	-	519000	2595	20.83	21.50	1.167	-0.06	0.278	0.325
	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	1	Portrait	-	519000	2595	20.84	21.50	1.164	-0.06	0.678	0.789
	FR1 n38_Ant 9	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	1	Portrait	-	519000	2595	20.83	21.50	1.167	-0.08	0.599	0.699
	FR1 n38_Ant 9	40M	BPSK	100	0	DFT-30	Left Cheek	0mm	1	Portrait	-	519000	2595	20.77	21.50	1.183	-0.19	0.674	0.798
	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	1	Portrait	-	519000	2595	20.84	21.50	1.164	0.02	0.179	0.208
	FR1 n38_Ant 9	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	1	Portrait	-	519000	2595	20.83	21.50	1.167	-0.03	0.172	0.200
	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	2	Portrait	-	519000	2595	17.76	18.00	1.057	-0.05	0.598	0.632
	FR1 n38_Ant 9	40M	BPSK	50	0	DFT-30	Right Cheek	0mm	2	Portrait	-	519000	2595	17.63	18.00	1.089	-0.13	0.539	0.587
	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	2	Portrait	-	519000	2595	17.76	18.00	1.057	0.19	0.194	0.205
	FR1 n38_Ant 9	40M	BPSK	50	0	DFT-30	Right Tilted	0mm	2	Portrait	-	519000	2595	17.63	18.00	1.089	0.15	0.183	0.200
	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	2	Portrait	-	519000	2595	17.76	18.00	1.057	-0.11	0.447	0.472
	FR1 n38_Ant 9	40M	BPSK	50	0	DFT-30	Left Cheek	0mm	2	Portrait	-	519000	2595	17.63	18.00	1.089	0.04	0.395	0.430
	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	2	Portrait	-	519000	2595	17.76	18.00	1.057	0.08	0.118	0.124
	FR1 n38_Ant 9	40M	BPSK	50	0	DFT-30	Left Tilted	0mm	2	Portrait	-	519000	2595	17.63	18.00	1.089	0.19	0.113	0.123
	FR1 n38_Ant 11	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	1/2	Portrait	-	519000	2595	23.74	24.50	1.191	0	0.005	0.006
	FR1 n38_Ant 11	40M	BPSK	1	1	DFT-30	Right Cheek	0mm	1/2	Portrait	V	519000	2595	23.74	24.50	1.191	0.02	0.003	0.004
	FR1 n38_Ant 11	40M	BPSK	50	28	DFT-30	Right Cheek	0mm	1/2	Portrait	-	519000	2595	23.72	24.50	1.197	0.18	0.004	0.005
	FR1 n38_Ant 11	40M	BPSK	1	1	DFT-30	Right Tilted	0mm	1/2	Portrait	-	519000	2595	23.74	24.50	1.191	0	0.001	0.001
	FR1 n38_Ant 11	40M	BPSK	50	28	DFT-30	Right Tilted	0mm	1/2	Portrait	-	519000	2595	23.72	24.50	1.197	0	0.001	0.001
	FR1 n38_Ant 11	40M	BPSK	1	1	DFT-30	Left Cheek	0mm	1/2	Portrait	-	519000	2595	23.74	24.50	1.191	0	0.001	0.001
	FR1 n38_Ant 11	40M	BPSK	50	28	DFT-30	Left Cheek	0mm	1/2	Portrait	-	519000	2595	23.72	24.50	1.197	0	0.001	0.001
	FR1 n38_Ant 11	40M	BPSK	1	1	DFT-30	Left Tilted	0mm	1/2	Portrait	-	519000	2595	23.74	24.50	1.191	0	0.001	0.001
	FR1 n38_Ant 11	40M	BPSK	50	28	DFT-30	Left Tilted	0mm	1/2	Portrait	-	519000	2595	23.72	24.50	1.197	0	0.001	0.001



Table with columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Output Power State, Device Mode, Aero Active Cooler, 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)



FCC SAR TEST REPORT

Report No. : FA082114A

FR1 n41_Ant 3	100M	QPSK	135	69	CP-30	Right Tilted	0mm	2	Portrait	-	518598	2592.99	15.62	16.00	1.091	0.05	0.177	0.193
FR1 n41_Ant 3	100M	QPSK	1	1	CP-30	Left Cheek	0mm	2	Portrait	-	518598	2592.99	15.56	16.00	1.107	0.17	0.129	0.143
FR1 n41_Ant 3	100M	QPSK	135	69	CP-30	Left Cheek	0mm	2	Portrait	-	518598	2592.99	15.62	16.00	1.091	0.08	0.159	0.174
FR1 n41_Ant 3	100M	QPSK	1	1	CP-30	Left Tilted	0mm	2	Portrait	-	518598	2592.99	15.56	16.00	1.107	-0.03	0.128	0.142
FR1 n41_Ant 3	100M	QPSK	135	69	CP-30	Left Tilted	0mm	2	Portrait	-	518598	2592.99	15.62	16.00	1.091	0.12	0.144	0.157
FR1 n41_Ant 9	100M	QPSK	1	1	CP-30	Right Cheek	0mm	1	Portrait	-	518598	2592.99	18.50	19.50	1.259	0.04	0.765	0.963
FR1 n41_Ant 9	100M	QPSK	135	0	CP-30	Right Cheek	0mm	1	Portrait	-	518598	2592.99	18.47	19.50	1.268	-0.12	0.642	0.813
FR1 n41_Ant 9	100M	QPSK	270	0	CP-30	Right Cheek	0mm	1	Portrait	-	518598	2592.99	18.40	19.50	1.288	0.12	0.622	0.801
FR1 n41_Ant 9	100M	QPSK	1	1	CP-30	Right Tilted	0mm	1	Portrait	-	518598	2592.99	18.50	19.50	1.259	-0.02	0.099	0.124
FR1 n41_Ant 9	100M	QPSK	135	0	CP-30	Right Tilted	0mm	1	Portrait	-	518598	2592.99	18.47	19.50	1.268	-0.05	0.099	0.125
FR1 n41_Ant 9	100M	QPSK	1	1	CP-30	Left Cheek	0mm	1	Portrait	-	518598	2592.99	18.50	19.50	1.259	-0.17	0.247	0.311
FR1 n41_Ant 9	100M	QPSK	135	0	CP-30	Left Cheek	0mm	1	Portrait	-	518598	2592.99	18.47	19.50	1.268	-0.15	0.253	0.321
FR1 n41_Ant 9	100M	QPSK	1	1	CP-30	Left Tilted	0mm	1	Portrait	-	518598	2592.99	18.50	19.50	1.259	0.08	0.061	0.077
FR1 n41_Ant 9	100M	QPSK	135	0	CP-30	Left Tilted	0mm	1	Portrait	-	518598	2592.99	18.47	19.50	1.268	0.08	0.069	0.088
FR1 n41_Ant 9	100M	QPSK	1	137	CP-30	Right Cheek	0mm	2	Portrait	-	518598	2592.99	15.43	16.00	1.140	0.08	0.355	0.405
FR1 n41_Ant 9	100M	QPSK	135	69	CP-30	Right Cheek	0mm	2	Portrait	-	518598	2592.99	15.35	16.00	1.161	-0.03	0.298	0.346
FR1 n41_Ant 9	100M	QPSK	1	137	CP-30	Right Tilted	0mm	2	Portrait	-	518598	2592.99	15.43	16.00	1.140	0.06	0.046	0.052
FR1 n41_Ant 9	100M	QPSK	135	69	CP-30	Right Tilted	0mm	2	Portrait	-	518598	2592.99	15.35	16.00	1.161	0.13	0.046	0.053
FR1 n41_Ant 9	100M	QPSK	1	137	CP-30	Left Cheek	0mm	2	Portrait	-	518598	2592.99	15.43	16.00	1.140	-0.12	0.115	0.131
FR1 n41_Ant 9	100M	QPSK	135	69	CP-30	Left Cheek	0mm	2	Portrait	-	518598	2592.99	15.35	16.00	1.161	-0.01	0.117	0.136
FR1 n41_Ant 9	100M	QPSK	1	137	CP-30	Left Tilted	0mm	2	Portrait	-	518598	2592.99	15.43	16.00	1.140	-0.1	0.028	0.032
FR1 n41_Ant 9	100M	QPSK	135	69	CP-30	Left Tilted	0mm	2	Portrait	-	518598	2592.99	15.35	16.00	1.161	0.12	0.032	0.037
FR1 n41_Ant 11	100M	QPSK	1	1	CP-30	Right Cheek	0mm	1	Portrait	-	518598	2592.99	18.50	19.50	1.259	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	135	0	CP-30	Right Cheek	0mm	1	Portrait	-	518598	2592.99	18.47	19.50	1.268	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	1	1	CP-30	Right Tilted	0mm	1	Portrait	-	518598	2592.99	18.50	19.50	1.259	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	135	0	CP-30	Right Tilted	0mm	1	Portrait	-	518598	2592.99	18.47	19.50	1.268	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	1	1	CP-30	Left Cheek	0mm	1	Portrait	-	518598	2592.99	18.50	19.50	1.259	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	135	0	CP-30	Left Cheek	0mm	1	Portrait	-	518598	2592.99	18.47	19.50	1.268	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	1	1	CP-30	Left Tilted	0mm	1	Portrait	-	518598	2592.99	18.50	19.50	1.259	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	135	0	CP-30	Left Tilted	0mm	1	Portrait	-	518598	2592.99	18.47	19.50	1.268	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	1	137	CP-30	Right Cheek	0mm	2	Portrait	-	518598	2592.99	15.43	16.00	1.140	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	135	69	CP-30	Right Cheek	0mm	2	Portrait	-	518598	2592.99	15.35	16.00	1.161	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	1	137	CP-30	Right Tilted	0mm	2	Portrait	-	518598	2592.99	15.43	16.00	1.140	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	135	69	CP-30	Right Tilted	0mm	2	Portrait	-	518598	2592.99	15.35	16.00	1.161	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	1	137	CP-30	Left Cheek	0mm	2	Portrait	-	518598	2592.99	15.43	16.00	1.140	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	135	69	CP-30	Left Cheek	0mm	2	Portrait	-	518598	2592.99	15.35	16.00	1.161	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	1	137	CP-30	Left Tilted	0mm	2	Portrait	-	518598	2592.99	15.43	16.00	1.140	0	0.001	0.001
FR1 n41_Ant 11	100M	QPSK	135	69	CP-30	Left Tilted	0mm	2	Portrait	-	518598	2592.99	15.35	16.00	1.161	0	0.001	0.001



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
22	FR1 n66_Ant 1	40M	BPSK	1	214	DFT-15	Right Cheek	0mm	1/2	Portrait	-	349000	1745	23.23	24.50	1.340	0.07	0.029	0.039
	FR1 n66_Ant 1	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	1/2	Portrait	-	349000	1745	22.97	24.50	1.422	0.12	0.013	0.018
	FR1 n66_Ant 1	40M	BPSK	1	214	DFT-15	Right Tilted	0mm	1/2	Portrait	-	349000	1745	23.23	24.50	1.340	0.13	0.009	0.012
	FR1 n66_Ant 1	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	1/2	Portrait	-	349000	1745	22.97	24.50	1.422	0.04	0.007	0.010
	FR1 n66_Ant 1	40M	BPSK	1	214	DFT-15	Left Cheek	0mm	1/2	Portrait	-	349000	1745	23.23	24.50	1.340	0	0.001	0.001
	FR1 n66_Ant 1	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	1/2	Portrait	-	349000	1745	22.97	24.50	1.422	0	0.001	0.001
	FR1 n66_Ant 1	40M	BPSK	1	214	DFT-15	Left Tilted	0mm	1/2	Portrait	-	349000	1745	23.23	24.50	1.340	0	0.001	0.001
	FR1 n66_Ant 1	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	1/2	Portrait	-	349000	1745	22.97	24.50	1.422	0	0.001	0.001
	FR1 n71_Ant 0	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	1/2	Portrait	-	136100	680.5	23.07	24.50	1.390	0.06	0.072	0.100
	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	1/2	Portrait	-	136100	680.5	23.06	24.50	1.393	-0.05	0.078	0.109
	FR1 n71_Ant 0	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	1/2	Portrait	-	136100	680.5	23.07	24.50	1.390	0	0.001	0.001
	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	1/2	Portrait	-	136100	680.5	23.06	24.50	1.393	0	0.001	0.001
	FR1 n71_Ant 0	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	1/2	Portrait	-	136100	680.5	23.07	24.50	1.390	-0.01	0.062	0.086
	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	1/2	Portrait	-	136100	680.5	23.06	24.50	1.393	0.04	0.070	0.098
	FR1 n71_Ant 0	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	1/2	Portrait	-	136100	680.5	23.07	24.50	1.390	0	0.001	0.001
	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	1/2	Portrait	-	136100	680.5	23.06	24.50	1.393	0	0.001	0.001
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	1/2	Portrait	-	136100	680.5	23.07	24.50	1.390	-0.11	0.124	0.131
	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	1/2	Portrait	-	136100	680.5	23.06	24.50	1.393	-0.17	0.146	0.154
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	1/2	Portrait	-	136100	680.5	23.07	24.50	1.390	-0.12	0.067	0.071
	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	1/2	Portrait	-	136100	680.5	23.06	24.50	1.393	0.04	0.092	0.097
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	1/2	Portrait	-	136100	680.5	23.07	24.50	1.390	0.12	0.111	0.117
23	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	1/2	Portrait	-	136100	680.5	23.06	24.50	1.393	0.06	0.178	0.248
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	1/2	Portrait	-	136100	680.5	23.07	24.50	1.390	0.03	0.084	0.088
	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	1/2	Portrait	-	136100	680.5	23.06	24.50	1.393	0.06	0.102	0.107
	FR1 n77_Ant 9	100M	BPSK	1	137	DFT-30	Right Cheek	0mm	1	Portrait	-	656000	3840	21.73	22.00	1.064	-0.16	1.030	1.096
	FR1 n77_Ant 9	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	1	Portrait	-	656000	3840	21.68	22.00	1.076	0.07	1.080	1.163
24	FR1 n77_Ant 9	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	1	Portrait	-	656000	3840	21.66	22.00	1.081	0.02	1.080	1.168
	FR1 n77_Ant 9	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	1	Portrait	V	656000	3840	21.66	22.00	1.081	0.02	1.003	1.085
	FR1 n77_Ant 9	100M	BPSK	1	137	DFT-30	Right Tilted	0mm	1	Portrait	-	656000	3840	21.73	22.00	1.064	-0.03	0.311	0.330
	FR1 n77_Ant 9	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	1	Portrait	-	656000	3840	21.68	22.00	1.076	0	0.280	0.302
	FR1 n77_Ant 9	100M	BPSK	1	137	DFT-30	Left Cheek	0mm	1	Portrait	-	656000	3840	21.73	22.00	1.064	0.01	0.627	0.668
	FR1 n77_Ant 9	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	1	Portrait	-	656000	3840	21.68	22.00	1.076	-0.13	0.560	0.603
	FR1 n77_Ant 9	100M	BPSK	1	137	DFT-30	Left Tilted	0mm	1	Portrait	-	656000	3840	21.73	22.00	1.064	-0.09	0.165	0.175
	FR1 n77_Ant 9	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	1	Portrait	-	656000	3840	21.68	22.00	1.076	-0.11	0.172	0.186
	FR1 n77_Ant 9	100M	BPSK	1	271	DFT-30	Right Cheek	0mm	2	Portrait	-	656000	3840	19.41	20.00	1.146	-0.08	0.610	0.699
	FR1 n77_Ant 9	100M	BPSK	135	138	DFT-30	Right Cheek	0mm	2	Portrait	-	656000	3840	19.42	20.00	1.143	-0.02	0.606	0.693
	FR1 n77_Ant 9	100M	BPSK	1	271	DFT-30	Right Tilted	0mm	2	Portrait	-	656000	3840	19.41	20.00	1.146	-0.11	0.205	0.234
	FR1 n77_Ant 9	100M	BPSK	135	138	DFT-30	Right Tilted	0mm	2	Portrait	-	656000	3840	19.42	20.00	1.143	-0.09	0.197	0.225
	FR1 n77_Ant 9	100M	BPSK	1	271	DFT-30	Left Cheek	0mm	2	Portrait	-	656000	3840	19.41	20.00	1.146	-0.14	0.419	0.480
	FR1 n77_Ant 9	100M	BPSK	135	138	DFT-30	Left Cheek	0mm	2	Portrait	-	656000	3840	19.42	20.00	1.143	-0.03	0.396	0.453
	FR1 n77_Ant 9	100M	BPSK	1	271	DFT-30	Left Tilted	0mm	2	Portrait	-	656000	3840	19.41	20.00	1.146	-0.05	0.118	0.135
	FR1 n77_Ant 9	100M	BPSK	135	138	DFT-30	Left Tilted	0mm	2	Portrait	-	656000	3840	19.42	20.00	1.143	0.01	0.110	0.126
	FR1 n77_Ant 11	100M	BPSK	1	137	DFT-30	Right Cheek	0mm	1/2	Portrait	-	656000	3840	21.73	22.00	1.064	0	0.001	0.001
	FR1 n77_Ant 11	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	1/2	Portrait	-	656000	3840	21.68	22.00	1.076	0	0.001	0.001
	FR1 n77_Ant 11	100M	BPSK	1	137	DFT-30	Right Tilted	0mm	1/2	Portrait	-	656000	3840	21.73	22.00	1.064	0	0.001	0.001
	FR1 n77_Ant 11	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	1/2	Portrait	-	656000	3840	21.68	22.00	1.076	0	0.001	0.001
	FR1 n77_Ant 11	100M	BPSK	1	137	DFT-30	Left Cheek	0mm	1/2	Portrait	-	656000	3840	21.73	22.00	1.064	0	0.001	0.001
	FR1 n77_Ant 11	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	1/2	Portrait	-	656000	3840	21.68	22.00	1.076	0	0.001	0.001
	FR1 n77_Ant 11	100M	BPSK	1	137	DFT-30	Left Tilted	0mm	1/2	Portrait	-	656000	3840	21.73	22.00	1.064	0	0.001	0.001
	FR1 n77_Ant 11	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	1/2	Portrait	-	656000	3840	21.68	22.00	1.076	0	0.001	0.001



<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz-	802.11b 1Mbps	Right Cheek	0mm	Ant 4	1	Normal	-	1	2412	21.40	22.00	1.148	98.20	1.018	0.01	0.229	0.268
	WLAN2.4GHz-	802.11b 1Mbps	Right Tilted	0mm	Ant 4	1	Normal	-	1	2412	21.40	22.00	1.148	98.20	1.018	-0.09	0.196	0.229
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	Normal	-	1	2412	21.40	22.00	1.148	98.20	1.018	-0.05	0.552	0.645
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	Normal	-	6	2437	19.90	20.00	1.023	98.20	1.018	-0.03	0.488	0.508
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	Normal	-	11	2462	20.60	21.00	1.096	98.20	1.018	0	0.442	0.493
	WLAN2.4GHz-	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	Normal	-	1	2412	21.40	22.00	1.148	98.20	1.018	0.01	0.388	0.454
	WLAN2.4GHz-	802.11b 1Mbps	Right Cheek	0mm	Ant 4	2	Normal	-	1	2412	19.40	19.50	1.023	98.20	1.018	0.11	0.135	0.141
	WLAN2.4GHz-	802.11b 1Mbps	Right Tilted	0mm	Ant 4	2	Normal	-	1	2412	19.40	19.50	1.023	98.20	1.018	-0.04	0.110	0.115
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4	2	Normal	-	1	2412	19.40	19.50	1.023	98.20	1.018	0	0.336	0.350
	WLAN2.4GHz-	802.11b 1Mbps	Left Tilted	0mm	Ant 4	2	Normal	-	1	2412	19.40	19.50	1.023	98.20	1.018	0.16	0.211	0.220
	WLAN2.4GHz-	802.11b 1Mbps	Right Cheek	0mm	Ant 5	1/2	Normal	-	1	2412	20.60	21.00	1.096	98.20	1.018	-0.11	0.143	0.160
	WLAN2.4GHz-	802.11b 1Mbps	Right Tilted	0mm	Ant 5	1/2	Normal	-	1	2412	20.60	21.00	1.096	98.20	1.018	-0.04	0.035	0.039
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 5	1/2	Normal	-	1	2412	20.60	21.00	1.096	98.20	1.018	-0.01	0.079	0.088
	WLAN2.4GHz-	802.11b 1Mbps	Left Tilted	0mm	Ant 5	1/2	Normal	-	1	2412	20.60	21.00	1.096	98.20	1.018	-0.09	0.044	0.049
	WLAN2.4GHz-	802.11b 1Mbps	Right Cheek	0mm	Ant 4+5	1	Normal	-	1	2412	24.18	24.50	1.076	98.22	1.018	0.05	0.220	0.241
	WLAN2.4GHz-	802.11b 1Mbps	Right Tilted	0mm	Ant 4+5	1	Normal	-	1	2412	24.18	24.50	1.076	98.22	1.018	-0.06	0.279	0.305
25	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	1	Normal	-	1	2412	24.18	24.50	1.076	98.22	1.018	0	0.625	0.684
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	1	Normal	V	1	2412	24.18	24.50	1.076	98.22	1.018	0.04	0.612	0.670
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	1	Normal	-	6	2437	22.77	23.00	1.055	98.22	1.018	0.02	0.536	0.576
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	1	Normal	-	11	2462	23.37	23.50	1.029	98.22	1.018	-0.03	0.549	0.575
	WLAN2.4GHz-	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	1	Normal	-	1	2412	24.18	24.50	1.023	98.22	1.018	0.01	0.463	0.482
	WLAN2.4GHz-	802.11b 1Mbps	Right Cheek	0mm	Ant 4+5	2	Normal	-	1	2412	21.83	22.00	1.040	98.22	1.018	0.11	0.104	0.110
	WLAN2.4GHz-	802.11b 1Mbps	Right Tilted	0mm	Ant 4+5	2	Normal	-	1	2412	21.83	22.00	1.040	98.22	1.018	-0.06	0.114	0.121
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	2	Normal	-	1	2412	21.83	22.00	1.040	98.22	1.018	0.02	0.228	0.241
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	2	Normal	-	6	2437	21.57	22.00	1.104	98.20	1.018	0.08	0.330	0.371
	WLAN2.4GHz-	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	2	Normal	-	11	2462	21.81	22.00	1.045	98.20	1.018	-0.06	0.308	0.328
	WLAN2.4GHz-	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	2	Normal	-	1	2412	21.83	22.00	1.040	98.22	1.018	0.19	0.128	0.136



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	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)
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4	1	Portrait	-	62	5310	19.30	20.00	1.175	99.70	1.003	0.01	0.277	0.326
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4	1	Portrait	-	62	5310	19.30	20.00	1.175	99.70	1.003	-0.08	0.202	0.238
26	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	1	Portrait	-	62	5310	19.30	20.00	1.175	99.70	1.003	0.04	0.735	0.866
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	1	Portrait	V	62	5310	19.30	20.00	1.175	99.70	1.003	-0.17	0.719	0.847
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	1	Portrait	-	54	5270	19.20	19.50	1.072	99.70	1.003	-0.01	0.675	0.725
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4	1	Portrait	-	62	5310	19.30	20.00	1.175	99.70	1.003	0.05	0.452	0.533
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	2	Portrait	-	58	5290	16.40	16.50	1.023	99.70	1.003	0.11	0.114	0.117
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	2	Portrait	-	58	5290	16.40	16.50	1.023	99.70	1.003	-0.06	0.093	0.096
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	Portrait	-	58	5290	16.40	16.50	1.023	99.70	1.003	-0.16	0.349	0.358
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	2	Portrait	-	58	5290	16.40	16.50	1.023	99.70	1.003	0.15	0.182	0.187
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	2	Portrait	-	58	5290	16.40	16.50	1.023	99.70	1.003	0.11	0.114	0.117
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	2	Portrait	-	58	5290	16.40	16.50	1.023	99.70	1.003	-0.06	0.093	0.096
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5	1/2	Portrait	-	54	5270	18.60	19.00	1.096	99.70	1.003	0.02	0.058	0.064
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5	1/2	Portrait	-	54	5270	18.60	19.00	1.096	99.70	1.003	0.09	0.057	0.063
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5	1/2	Portrait	-	54	5270	18.60	19.00	1.096	99.70	1.003	-0.01	0.031	0.034
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5	1/2	Portrait	-	54	5270	18.60	19.00	1.096	99.70	1.003	0	0.025	0.027
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+5	1	Portrait	-	54	5270	22.08	22.50	1.101	100.00	1.000	-0.09	0.296	0.326
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4+5	1	Portrait	-	54	5270	22.08	22.50	1.101	100.00	1.000	-0.1	0.233	0.256
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+5	1	Portrait	-	54	5270	22.08	22.50	1.101	100.00	1.000	-0.02	0.686	0.755
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+5	1	Portrait	-	54	5270	22.08	22.50	1.101	100.00	1.000	0.05	0.414	0.456
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	2	Portrait	-	58	5290	19.22	19.50	1.067	100.00	1.000	0.13	0.110	0.117
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	2	Portrait	-	58	5290	19.22	19.50	1.067	100.00	1.000	-0.06	0.100	0.106
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	Ch58	Ant 4+5	2	Portrait	-	58	5290	19.22	19.50	1.067	100.00	1.000	0.13	0.324	0.346
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	2	Portrait	-	58	5290	19.22	19.50	1.067	100.00	1.000	0.01	0.214	0.228
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4	1	Portrait	-	134	5670	19.70	20.00	1.072	99.70	1.003	0.02	0.422	0.454
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4	1	Portrait	-	134	5670	19.70	20.00	1.072	99.70	1.003	-0.04	0.333	0.358
27	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	1	Portrait	-	134	5670	19.70	20.00	1.072	99.70	1.003	-0.1	0.765	0.822
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	1	Portrait	-	102	5510	19.20	20.00	1.202	99.70	1.003	-0.14	0.503	0.607
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	1	Portrait	-	110	5550	19.40	20.00	1.148	99.70	1.003	0.08	0.569	0.655
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	1	Portrait	-	126	5630	19.50	20.00	1.122	99.70	1.003	0.04	0.541	0.609
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4	1	Portrait	-	134	5670	19.70	20.00	1.072	99.70	1.003	-0.19	0.481	0.517
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	2	Portrait	-	122	5610	16.30	16.50	1.047	99.70	1.003	0.13	0.143	0.151
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	2	Portrait	-	122	5610	16.30	16.50	1.047	99.70	1.003	-0.09	0.127	0.134
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	Portrait	-	122	5610	16.30	16.50	1.047	99.70	1.003	-0.15	0.288	0.302
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	2	Portrait	-	122	5610	16.30	16.50	1.047	99.70	1.003	0.06	0.203	0.213
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	1/2	Portrait	-	106	5530	19.10	19.50	1.096	99.70	1.003	0.06	0.052	0.057
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	1/2	Portrait	-	106	5530	19.10	19.50	1.096	99.70	1.003	0.01	0.046	0.051
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	1/2	Portrait	-	106	5530	19.10	19.50	1.096	99.70	1.003	-0.06	0.047	0.052
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	1/2	Portrait	-	106	5530	19.10	19.50	1.096	99.70	1.003	0.02	0.048	0.053
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+5	1	Portrait	-	110	5550	22.61	23.00	1.093	100.00	1.000	0.06	0.358	0.391
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4+5	1	Portrait	-	110	5550	22.61	23.00	1.093	100.00	1.000	0.13	0.323	0.353
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+5	1	Portrait	-	110	5550	22.61	23.00	1.093	100.00	1.000	0.01	0.561	0.613
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+5	1	Portrait	-	110	5550	22.61	23.00	1.093	100.00	1.000	-0.04	0.368	0.402
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	2	Portrait	-	122	5610	20.50	20.50	1.000	100.00	1.000	0.01	0.207	0.207
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	2	Portrait	-	122	5610	20.50	20.50	1.000	100.00	1.000	-0.06	0.189	0.189
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	2	Portrait	-	122	5610	20.50	20.50	1.000	100.00	1.000	-0.09	0.397	0.397
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	2	Portrait	-	122	5610	20.50	20.50	1.000	100.00	1.000	0.11	0.238	0.238
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	2	Portrait	-	122	5610	20.50	20.50	1.000	100.00	1.000	0.01	0.207	0.207



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	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)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	1	Portrait	-	155	5775	19.70	20.00	1.072	99.70	1.003	0.14	0.422	0.454
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	1	Portrait	-	155	5775	19.70	20.00	1.072	99.70	1.003	-0.06	0.357	0.384
28	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	1	Portrait	-	155	5775	19.70	20.00	1.072	99.70	1.003	-0.12	0.538	0.578
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	1	Portrait	-	155	5775	19.70	20.00	1.072	99.70	1.003	0.16	0.364	0.391
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	2	Portrait	-	155	5775	17.70	18.00	1.072	99.70	1.003	0.09	0.130	0.139
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	2	Portrait	-	155	5775	17.70	18.00	1.072	99.70	1.003	0.07	0.125	0.134
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	2	Portrait	-	155	5775	17.70	18.00	1.072	99.70	1.003	-0.15	0.315	0.338
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	2	Portrait	-	155	5775	17.70	18.00	1.072	99.70	1.003	-0.13	0.187	0.201
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	1/2	Portrait	-	155	5775	19.40	20.00	1.148	99.70	1.003	-0.04	0.080	0.092
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	1/2	Portrait	-	155	5775	19.40	20.00	1.148	99.70	1.003	-0.01	0.071	0.082
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	1/2	Portrait	-	155	5775	19.40	20.00	1.148	99.70	1.003	0.06	0.078	0.090
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	1/2	Portrait	-	155	5775	19.40	20.00	1.148	99.70	1.003	0.09	0.049	0.056
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	1	Portrait	-	155	5775	22.61	23.00	1.093	100.00	1.000	0.05	0.242	0.264
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	1	Portrait	-	155	5775	22.61	23.00	1.093	100.00	1.000	-0.01	0.213	0.233
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	1	Portrait	-	155	5775	22.61	23.00	1.093	100.00	1.000	0.09	0.495	0.541
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	1	Portrait	-	155	5775	22.61	23.00	1.093	100.00	1.000	0.09	0.321	0.351
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	2	Portrait	-	155	5775	21.41	21.50	1.021	100.00	1.000	0.1	0.158	0.161
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	2	Portrait	-	155	5775	21.41	21.50	1.021	100.00	1.000	0.19	0.148	0.151
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	2	Portrait	-	155	5775	21.41	21.50	1.021	100.00	1.000	-0.1	0.358	0.365
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	2	Portrait	-	155	5775	21.41	21.50	1.021	100.00	1.000	-0.17	0.235	0.240

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	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 4	1	Portrait	-	39	2441	19.26	19.40	1.034	76.83	1.084	0.01	0.112	0.126
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	1	Portrait	-	39	2441	19.26	19.40	1.034	76.83	1.084	-0.05	0.077	0.086
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	1	Portrait	-	39	2441	19.26	19.40	1.034	76.83	1.084	0.1	0.251	0.281
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	1	Portrait	-	0	2402	17.47	19.40	1.561	76.83	1.084	-0.15	0.118	0.200
29	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	1	Portrait	-	78	2480	17.82	19.40	1.440	76.83	1.084	-0.02	0.198	0.309
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	1	Portrait	V	78	2480	17.82	19.40	1.440	76.83	1.084	0.06	0.187	0.292
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	1	Portrait	-	39	2441	19.26	19.40	1.034	76.83	1.084	0.03	0.179	0.201
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 4	2	Portrait	-	39	2441	13.69	14.00	1.074	76.83	1.084	-0.01	0.046	0.054
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 4	2	Portrait	-	39	2441	13.69	14.00	1.074	76.83	1.084	-0.1	0.052	0.061
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	2	Portrait	-	39	2441	13.69	14.00	1.074	76.83	1.084	-0.09	0.127	0.148
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	2	Portrait	-	0	2402	12.22	14.00	1.507	76.83	1.084	-0.03	0.093	0.152
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 4	2	Portrait	-	78	2480	12.19	14.00	1.517	76.83	1.084	-0.13	0.061	0.100
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 4	2	Portrait	-	39	2441	13.69	14.00	1.074	76.83	1.084	-0.06	0.119	0.139
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 5	1/2	Portrait	-	39	2441	18.36	18.50	1.034	76.83	1.084	0.06	0.067	0.075
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 5	1/2	Portrait	-	39	2441	18.36	18.50	1.034	76.83	1.084	0	0.001	0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 5	1/2	Portrait	-	39	2441	18.36	18.50	1.034	76.83	1.084	0	0.001	0.001
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 5	1/2	Portrait	-	39	2441	18.36	18.50	1.034	76.83	1.084	0	0.001	0.001



12.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 ANT0	GPRS (2 Tx slots)	Front	10mm	3	Portrait&Landscape	-	189	836.4	30.93	32.00	1.279	-0.1	0.219	0.280
	GSM850 ANT0	GPRS (2 Tx slots)	Back	10mm	3	Portrait&Landscape	-	189	836.4	30.93	32.00	1.279	-0.16	0.345	0.441
	GSM850 ANT0	GPRS (2 Tx slots)	Back	10mm	3	Portrait&Landscape	-	128	824.2	30.46	32.00	1.426	-0.07	0.301	0.429
	GSM850 ANT0	GPRS (2 Tx slots)	Back	10mm	3	Portrait&Landscape	-	251	848.8	30.67	32.00	1.358	-0.02	0.451	0.613
	GSM850 ANT0	GPRS (2 Tx slots)	Left Side	10mm	3	Portrait&Landscape	-	189	836.4	30.93	32.00	1.279	-0.14	0.042	0.054
	GSM850 ANT0	GPRS (2 Tx slots)	Right Side	10mm	3	Portrait&Landscape	-	189	836.4	30.93	32.00	1.279	0.19	0.077	0.099
	GSM850 ANT0	GPRS (2 Tx slots)	Top Side	10mm	3	Portrait&Landscape	-	189	836.4	30.93	32.00	1.279	0	0.001	0.001
	GSM850 ANT0	GPRS (2 Tx slots)	Bottom Side	10mm	3	Portrait&Landscape	-	189	836.4	30.93	32.00	1.279	0.17	0.209	0.267
	GSM850 ANT2	GPRS (2 Tx slots)	Front	10mm	3	Portrait&Landscape	-	189	836.4	32.96	34.50	1.426	0.12	0.356	0.508
	GSM850 ANT2	GPRS (2 Tx slots)	Front	10mm	3	Portrait&Landscape	-	128	824.2	32.88	34.50	1.452	-0.07	0.299	0.434
30	GSM850 ANT2	GPRS (2 Tx slots)	Front	10mm	3	Portrait&Landscape	-	251	848.8	32.62	34.50	1.542	-0.03	0.419	0.646
	GSM850 ANT2	GPRS (2 Tx slots)	Front	10mm	3	Portrait&Landscape	V	251	848.8	32.62	34.50	1.542	-0.03	0.336	0.518
	GSM850 ANT2	GPRS (2 Tx slots)	Back	10mm	3	Portrait&Landscape	-	189	836.4	32.96	34.50	1.426	-0.04	0.324	0.462
	GSM850 ANT2	GPRS (2 Tx slots)	Left Side	10mm	3	Portrait&Landscape	-	189	836.4	32.96	34.50	1.426	-0.05	0.054	0.077
	GSM850 ANT2	GPRS (2 Tx slots)	Right Side	10mm	3	Portrait&Landscape	-	189	836.4	32.96	34.50	1.426	-0.19	0.137	0.195
	GSM850 ANT2	GPRS (2 Tx slots)	Top Side	10mm	3	Portrait&Landscape	-	189	836.4	32.96	34.50	1.426	-0.06	0.250	0.356
	GSM850 ANT2	GPRS (2 Tx slots)	Bottom Side	10mm	3	Portrait&Landscape	-	189	836.4	32.96	34.50	1.426	0.02	0.001	0.001
	GSM1900 ANT1	GPRS (2 Tx slots)	Front	10mm	3	Portrait	-	661	1880	28.71	29.50	1.199	0.18	0.199	0.239
	GSM1900 ANT1	GPRS (2 Tx slots)	Back	10mm	3	Portrait	-	661	1880	28.71	29.50	1.199	0.08	0.287	0.344
	GSM1900 ANT1	GPRS (2 Tx slots)	Left Side	10mm	3	Portrait	-	661	1880	28.71	29.50	1.199	-0.02	0.245	0.294
	GSM1900 ANT1	GPRS (2 Tx slots)	Right Side	10mm	3	Portrait	-	661	1880	28.71	29.50	1.199	-0.16	0.035	0.042
	GSM1900 ANT1	GPRS (2 Tx slots)	Top Side	10mm	3	Portrait	-	661	1880	28.71	29.50	1.199	0	0.001	0.001
	GSM1900 ANT1	GPRS (2 Tx slots)	Bottom Side	10mm	3	Portrait	-	661	1880	28.71	29.50	1.199	0.11	0.549	0.659
	GSM1900 ANT1	GPRS (2 Tx slots)	Bottom Side	10mm	3	Portrait	-	512	1850.2	28.25	29.50	1.334	-0.08	0.603	0.805
	GSM1900 ANT1	GPRS (2 Tx slots)	Bottom Side	10mm	3	Portrait	-	810	1909.8	28.53	29.50	1.250	0.07	0.650	0.813
	GSM1900 ANT8	GPRS (2 Tx slots)	Front	10mm	3	Landscape	-	661	1880	30.24	31.50	1.337	0.13	0.230	0.307
	GSM1900 ANT8	GPRS (2 Tx slots)	Back	10mm	3	Landscape	-	661	1880	30.24	31.50	1.337	0.19	0.219	0.293
	GSM1900 ANT8	GPRS (2 Tx slots)	Left Side	10mm	3	Landscape	-	661	1880	30.24	31.50	1.337	0.19	0.487	0.651
31	GSM1900 ANT8	GPRS (2 Tx slots)	Left Side	10mm	3	Landscape	-	512	1850.2	29.75	31.50	1.496	-0.07	0.655	0.980
	GSM1900 ANT8	GPRS (2 Tx slots)	Left Side	10mm	3	Landscape	-	810	1909.8	30.12	31.50	1.374	0.11	0.597	0.820
	GSM1900 ANT8	GPRS (2 Tx slots)	Right Side	10mm	3	Landscape	-	661	1880	30.24	31.50	1.337	0	0.001	0.001
	GSM1900 ANT8	GPRS (2 Tx slots)	Top Side	10mm	3	Landscape	-	661	1880	30.24	31.50	1.337	0	0.001	0.001
	GSM1900 ANT8	GPRS (2 Tx slots)	Bottom Side	10mm	3	Landscape	-	661	1880	30.24	31.50	1.337	0.13	0.041	0.055



<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 ANT1	RMC 12.2Kbps	Front	10mm	3	Portrait	-	9538	1907.6	22.48	23.00	1.127	-0.1	0.301	0.339
	WCDMA II ANT1	RMC 12.2Kbps	Back	10mm	3	Portrait	-	9538	1907.6	22.48	23.00	1.127	0.11	0.419	0.472
	WCDMA II ANT1	RMC 12.2Kbps	Left Side	10mm	3	Portrait	-	9538	1907.6	22.48	23.00	1.127	0.03	0.359	0.404
	WCDMA II ANT1	RMC 12.2Kbps	Right Side	10mm	3	Portrait	-	9538	1907.6	22.48	23.00	1.127	-0.05	0.044	0.050
	WCDMA II ANT1	RMC 12.2Kbps	Top Side	10mm	3	Portrait	-	9538	1907.6	22.48	23.00	1.127	0	0.001	0.001
	WCDMA II ANT1	RMC 12.2Kbps	Bottom Side	10mm	3	Portrait	-	9538	1907.6	22.48	23.00	1.127	-0.01	0.761	0.858
	WCDMA II ANT1	RMC 12.2Kbps	Bottom Side	10mm	3	Portrait	-	9262	1852.4	22.47	23.00	1.130	-0.13	0.698	0.789
	WCDMA II ANT1	RMC 12.2Kbps	Bottom Side	10mm	3	Portrait	-	9400	1880	22.29	23.00	1.178	0.06	0.775	0.913
	WCDMA II ANT8	RMC 12.2Kbps	Front	10mm	3	Landscape	-	9538	1907.6	22.48	23.50	1.265	-0.05	0.341	0.431
	WCDMA II ANT8	RMC 12.2Kbps	Back	10mm	3	Landscape	-	9538	1907.6	22.48	23.50	1.265	0.14	0.314	0.397
	WCDMA II ANT8	RMC 12.2Kbps	Left Side	10mm	3	Landscape	-	9538	1907.6	22.48	23.50	1.265	0.19	0.724	0.915
32	WCDMA II ANT8	RMC 12.2Kbps	Left Side	10mm	3	Landscape	-	9262	1852.4	22.47	23.50	1.268	0.09	0.728	0.923
	WCDMA II ANT8	RMC 12.2Kbps	Left Side	10mm	3	Landscape	-	9400	1880	22.29	23.50	1.321	0.04	0.695	0.919
	WCDMA II ANT8	RMC 12.2Kbps	Right Side	10mm	3	Landscape	-	9538	1907.6	22.48	23.50	1.265	-0.08	0.001	0.001
	WCDMA II ANT8	RMC 12.2Kbps	Top Side	10mm	3	Landscape	-	9538	1907.6	22.48	23.50	1.265	-0.15	0.001	0.001
	WCDMA II ANT8	RMC 12.2Kbps	Bottom Side	10mm	3	Landscape	-	9538	1907.6	22.48	23.50	1.265	-0.04	0.033	0.041
	WCDMA IV ANT1	RMC 12.2Kbps	Front	10mm	3	Portrait	-	1413	1732.6	24.10	24.50	1.096	-0.1	0.385	0.422
	WCDMA IV ANT1	RMC 12.2Kbps	Back	10mm	3	Portrait	-	1413	1732.6	24.10	24.50	1.096	0.15	0.523	0.573
	WCDMA IV ANT1	RMC 12.2Kbps	Left Side	10mm	3	Portrait	-	1413	1732.6	24.10	24.50	1.096	-0.09	0.343	0.376
	WCDMA IV ANT1	RMC 12.2Kbps	Right Side	10mm	3	Portrait	-	1413	1732.6	24.10	24.50	1.096	-0.15	0.115	0.126
	WCDMA IV ANT1	RMC 12.2Kbps	Top Side	10mm	3	Portrait	-	1413	1732.6	24.10	24.50	1.096	0	0.001	0.001
	WCDMA IV ANT1	RMC 12.2Kbps	Bottom Side	10mm	3	Portrait	-	1413	1732.6	24.10	24.50	1.096	0.11	0.867	0.951
33	WCDMA IV ANT1	RMC 12.2Kbps	Bottom Side	10mm	3	Portrait	-	1312	1712.4	23.99	24.50	1.125	0.08	0.859	0.966
	WCDMA IV ANT1	RMC 12.2Kbps	Bottom Side	10mm	3	Portrait	-	1513	1752.6	24.05	24.50	1.109	-0.18	0.845	0.937
	WCDMA IV ANT8	RMC 12.2Kbps	Front	10mm	3	Landscape	-	1413	1732.6	24.10	25.50	1.380	-0.11	0.337	0.465
	WCDMA IV ANT8	RMC 12.2Kbps	Back	10mm	3	Landscape	-	1413	1732.6	24.10	25.50	1.380	0.17	0.294	0.406
	WCDMA IV ANT8	RMC 12.2Kbps	Left Side	10mm	3	Landscape	-	1413	1732.6	24.10	25.50	1.380	0.06	0.666	0.919
	WCDMA IV ANT8	RMC 12.2Kbps	Left Side	10mm	3	Landscape	-	1312	1712.4	23.99	25.50	1.416	-0.05	0.611	0.865
	WCDMA IV ANT8	RMC 12.2Kbps	Left Side	10mm	3	Landscape	-	1513	1752.6	24.05	25.50	1.396	0.13	0.567	0.792
	WCDMA IV ANT8	RMC 12.2Kbps	Right Side	10mm	3	Landscape	-	1413	1732.6	24.10	25.50	1.380	-0.14	0.017	0.023
	WCDMA IV ANT8	RMC 12.2Kbps	Top Side	10mm	3	Landscape	-	1413	1732.6	24.10	25.50	1.380	0	0.001	0.001
	WCDMA IV ANT8	RMC 12.2Kbps	Bottom Side	10mm	3	Landscape	-	1413	1732.6	24.10	25.50	1.380	-0.12	0.214	0.295
	WCDMA V ANT0	RMC 12.2Kbps	Front	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	0.12	0.323	0.386
	WCDMA V ANT0	RMC 12.2Kbps	Back	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	0.13	0.449	0.537
	WCDMA V ANT0	RMC 12.2Kbps	Back	10mm	3	Portrait&Landscape	-	4132	826.4	23.89	25.50	1.449	-0.02	0.259	0.375
34	WCDMA V ANT0	RMC 12.2Kbps	Back	10mm	3	Portrait&Landscape	-	4233	846.6	24.32	25.50	1.312	-0.01	0.471	0.618
	WCDMA V ANT0	RMC 12.2Kbps	Back	10mm	3	Portrait&Landscape	V	4233	846.6	24.32	25.50	1.312	-0.01	0.074	0.097
	WCDMA V ANT0	RMC 12.2Kbps	Left Side	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	-0.14	0.073	0.087
	WCDMA V ANT0	RMC 12.2Kbps	Right Side	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	0.18	0.095	0.113
	WCDMA V ANT0	RMC 12.2Kbps	Top Side	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	0	0.001	0.001
	WCDMA V ANT0	RMC 12.2Kbps	Bottom Side	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	-0.17	0.281	0.336
	WCDMA V ANT2	RMC 12.2Kbps	Front	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	0.12	0.178	0.213
	WCDMA V ANT2	RMC 12.2Kbps	Front	10mm	3	Portrait&Landscape	-	4132	826.4	23.89	25.50	1.449	-0.03	0.126	0.183
	WCDMA V ANT2	RMC 12.2Kbps	Front	10mm	3	Portrait&Landscape	-	4233	846.6	24.32	25.50	1.312	-0.04	0.189	0.248
	WCDMA V ANT2	RMC 12.2Kbps	Back	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	0.19	0.165	0.197
	WCDMA V ANT2	RMC 12.2Kbps	Left Side	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	0	0.001	0.001
	WCDMA V ANT2	RMC 12.2Kbps	Right Side	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	-0.07	0.057	0.068
	WCDMA V ANT2	RMC 12.2Kbps	Top Side	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	0.08	0.124	0.148
	WCDMA V ANT2	RMC 12.2Kbps	Bottom Side	10mm	3	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	0	0.001	0.001



<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 7 ANT1	20M	QPSK	1	0	Front	10mm	3	Portrait	-	21100	2535	23.40	24.00	1.148	-0.04	0.338	0.388
	LTE Band 7 ANT1	20M	QPSK	50	0	Front	10mm	3	Portrait	-	21350	2560	22.21	23.00	1.199	-0.11	0.277	0.333
	LTE Band 7 ANT1	20M	QPSK	1	0	Back	10mm	3	Portrait	-	21100	2535	23.40	24.00	1.148	-0.16	0.597	0.686
	LTE Band 7 ANT1	20M	QPSK	50	0	Back	10mm	3	Portrait	-	21350	2560	22.21	23.00	1.199	-0.01	0.488	0.585
	LTE Band 7 ANT1	20M	QPSK	1	0	Left Side	10mm	3	Portrait	-	21100	2535	23.40	24.00	1.148	-0.03	0.457	0.525
	LTE Band 7 ANT1	20M	QPSK	50	0	Left Side	10mm	3	Portrait	-	21350	2560	22.21	23.00	1.199	-0.17	0.374	0.449
	LTE Band 7 ANT1	20M	QPSK	1	0	Right Side	10mm	3	Portrait	-	21100	2535	23.40	24.00	1.148	0.11	0.087	0.099
	LTE Band 7 ANT1	20M	QPSK	50	0	Right Side	10mm	3	Portrait	-	21350	2560	22.21	23.00	1.199	0.18	0.068	0.081
	LTE Band 7 ANT1	20M	QPSK	1	0	Top Side	10mm	3	Portrait	-	21100	2535	23.40	24.00	1.148	-0.18	0.001	0.001
	LTE Band 7 ANT1	20M	QPSK	50	0	Top Side	10mm	3	Portrait	-	21350	2560	22.21	23.00	1.199	-0.14	0.001	0.001
	LTE Band 7 ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	21100	2535	23.40	24.00	1.148	-0.06	0.898	1.031
	LTE Band 7 ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	20850	2510	22.85	24.00	1.303	0.03	0.765	0.997
	LTE Band 7 ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	21350	2560	23.00	24.00	1.259	0.16	0.609	0.767
	LTE Band 7 ANT1	20M	QPSK	50	0	Bottom Side	10mm	3	Portrait	-	21350	2560	22.21	23.00	1.199	0.16	0.642	0.770
	LTE Band 7 ANT1	20M	QPSK	50	50	Bottom Side	10mm	3	Portrait	-	20850	2510	21.82	23.00	1.312	0.07	0.625	0.820
	LTE Band 7 ANT1	20M	QPSK	50	50	Bottom Side	10mm	3	Portrait	-	21100	2535	21.99	23.00	1.262	0.08	0.572	0.722
	LTE Band 7 ANT1	20M	QPSK	100	0	Bottom Side	10mm	3	Portrait	-	21350	2560	22.10	23.00	1.230	0.08	0.654	0.805
	LTE Band 7C ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	21100	2535	23.50	24.00	1.122	0.1	0.817	0.917
	LTE Band 7 ANT8	20M	QPSK	1	0	Front	10mm	3	Landscape	-	21100	2535	23.40	24.50	1.288	0.06	0.415	0.534
	LTE Band 7 ANT8	20M	QPSK	50	0	Front	10mm	3	Landscape	-	21350	2560	22.21	23.50	1.346	-0.13	0.333	0.449
	LTE Band 7 ANT8	20M	QPSK	1	0	Back	10mm	3	Landscape	-	21100	2535	23.40	24.50	1.288	0.11	0.417	0.537
	LTE Band 7 ANT8	20M	QPSK	50	0	Back	10mm	3	Landscape	-	21350	2560	22.21	23.50	1.346	0.16	0.331	0.446
	LTE Band 7 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	21100	2535	23.40	24.50	1.288	-0.04	0.825	1.063
35	LTE Band 7 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	20850	2510	22.85	24.50	1.462	-0.06	0.814	1.190
	LTE Band 7 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	V	20850	2510	22.85	24.50	1.462	-0.06	0.412	0.602
	LTE Band 7 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	21350	2560	23.00	24.50	1.413	0.19	0.534	0.754
	LTE Band 7 ANT8	20M	QPSK	50	0	Left Side	10mm	3	Landscape	-	21350	2560	22.21	23.50	1.346	0.04	0.600	0.808
	LTE Band 7 ANT8	20M	QPSK	50	50	Left Side	10mm	3	Landscape	-	20850	2510	21.82	23.50	1.472	0.13	0.621	0.914
	LTE Band 7 ANT8	20M	QPSK	50	50	Left Side	10mm	3	Landscape	-	21100	2535	21.99	23.50	1.416	-0.13	0.650	0.920
	LTE Band 7 ANT8	20M	QPSK	100	0	Left Side	10mm	3	Landscape	-	21350	2560	22.10	23.50	1.380	0.11	0.580	0.800
	LTE Band 7 ANT8	20M	QPSK	1	0	Right Side	10mm	3	Landscape	-	21100	2535	23.40	24.50	1.288	0.15	0.001	0.001
	LTE Band 7 ANT8	20M	QPSK	50	0	Right Side	10mm	3	Landscape	-	21350	2560	22.21	23.50	1.346	-0.05	0.001	0.001
	LTE Band 7 ANT8	20M	QPSK	1	0	Top Side	10mm	3	Landscape	-	21100	2535	23.40	24.50	1.288	-0.15	0.025	0.032
	LTE Band 7 ANT8	20M	QPSK	50	0	Top Side	10mm	3	Landscape	-	21350	2560	22.21	23.50	1.346	0.16	0.033	0.045
	LTE Band 7 ANT8	20M	QPSK	1	0	Bottom Side	10mm	3	Landscape	-	21100	2535	23.40	24.50	1.288	0.13	0.091	0.118
	LTE Band 7 ANT8	20M	QPSK	50	0	Bottom Side	10mm	3	Landscape	-	21350	2560	22.21	23.50	1.346	0.04	0.077	0.104
	LTE Band 7C ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	21100	2535	23.50	24.50	1.259	0.16	0.712	0.896



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 12 ANT0	10M	QPSK	1	0	Front	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	-0.04	0.206	0.223
	LTE Band 12 ANT0	10M	QPSK	25	0	Front	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	-0.19	0.202	0.214
36	LTE Band 12 ANT0	10M	QPSK	1	0	Back	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	0.02	0.292	0.317
	LTE Band 12 ANT0	10M	QPSK	25	0	Back	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	-0.09	0.270	0.286
	LTE Band 12 ANT0	10M	QPSK	1	0	Left Side	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	-0.03	0.058	0.063
	LTE Band 12 ANT0	10M	QPSK	25	0	Left Side	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0.06	0.054	0.057
	LTE Band 12 ANT0	10M	QPSK	1	0	Right Side	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	-0.05	0.186	0.202
	LTE Band 12 ANT0	10M	QPSK	25	0	Right Side	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0.09	0.175	0.185
	LTE Band 12 ANT0	10M	QPSK	1	0	Top Side	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	0	0.001	0.001
	LTE Band 12 ANT0	10M	QPSK	25	0	Top Side	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0	0.001	0.001
	LTE Band 12 ANT0	10M	QPSK	1	0	Bottom Side	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	-0.14	0.165	0.179
	LTE Band 12 ANT0	10M	QPSK	25	0	Bottom Side	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	-0.06	0.165	0.175
	LTE Band 12 ANT2	10M	QPSK	1	0	Front	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	-0.04	0.082	0.089
	LTE Band 12 ANT2	10M	QPSK	25	0	Front	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0.16	0.070	0.074
	LTE Band 12 ANT2	10M	QPSK	1	0	Back	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	-0.17	0.070	0.076
	LTE Band 12 ANT2	10M	QPSK	25	0	Back	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0.09	0.063	0.067
	LTE Band 12 ANT2	10M	QPSK	1	0	Left Side	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	0	0.001	0.001
	LTE Band 12 ANT2	10M	QPSK	25	0	Left Side	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0	0.001	0.001
	LTE Band 12 ANT2	10M	QPSK	1	0	Right Side	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	-0.03	0.069	0.075
	LTE Band 12 ANT2	10M	QPSK	25	0	Right Side	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	-0.11	0.055	0.058
	LTE Band 12 ANT2	10M	QPSK	1	0	Top Side	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	-0.08	0.060	0.065
	LTE Band 12 ANT2	10M	QPSK	25	0	Top Side	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0.03	0.056	0.059
	LTE Band 12 ANT2	10M	QPSK	1	0	Bottom Side	10mm	3	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	0	0.001	0.001
	LTE Band 12 ANT2	10M	QPSK	25	0	Bottom Side	10mm	3	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0	0.001	0.001
	LTE Band 13 ANT0	10M	QPSK	1	49	Front	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	-0.12	0.285	0.380
	LTE Band 13 ANT0	10M	QPSK	25	25	Front	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	-0.14	0.213	0.273
37	LTE Band 13 ANT0	10M	QPSK	1	49	Back	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	0.06	0.386	0.515
	LTE Band 13 ANT0	10M	QPSK	25	25	Back	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	-0.06	0.342	0.438
	LTE Band 13 ANT0	10M	QPSK	1	49	Left Side	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	0	0.001	0.001
	LTE Band 13 ANT0	10M	QPSK	25	25	Left Side	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	0	0.001	0.001
	LTE Band 13 ANT0	10M	QPSK	1	49	Right Side	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	-0.05	0.173	0.231
	LTE Band 13 ANT0	10M	QPSK	25	25	Right Side	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	0.02	0.143	0.183
	LTE Band 13 ANT0	10M	QPSK	1	49	Top Side	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	0	0.001	0.001
	LTE Band 13 ANT0	10M	QPSK	25	25	Top Side	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	0	0.001	0.001
	LTE Band 13 ANT0	10M	QPSK	1	49	Bottom Side	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	-0.14	0.225	0.300
	LTE Band 13 ANT0	10M	QPSK	25	25	Bottom Side	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	-0.07	0.195	0.249
	LTE Band 13 ANT2	10M	QPSK	1	49	Front	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	-0.08	0.275	0.367
	LTE Band 13 ANT2	10M	QPSK	25	25	Front	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	-0.02	0.232	0.297
	LTE Band 13 ANT2	10M	QPSK	1	49	Back	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	-0.01	0.233	0.311
	LTE Band 13 ANT2	10M	QPSK	25	25	Back	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	0.02	0.195	0.249
	LTE Band 13 ANT2	10M	QPSK	1	49	Left Side	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	0	0.001	0.001
	LTE Band 13 ANT2	10M	QPSK	25	25	Left Side	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	0	0.001	0.001
	LTE Band 13 ANT2	10M	QPSK	1	49	Right Side	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	0.11	0.118	0.157
	LTE Band 13 ANT2	10M	QPSK	25	25	Right Side	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	0.16	0.101	0.129
	LTE Band 13 ANT2	10M	QPSK	1	49	Top Side	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	0.13	0.183	0.244
	LTE Band 13 ANT2	10M	QPSK	25	25	Top Side	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	-0.09	0.154	0.197
	LTE Band 13 ANT2	10M	QPSK	1	49	Bottom Side	10mm	3	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	0	0.001	0.001
	LTE Band 13 ANT2	10M	QPSK	25	25	Bottom Side	10mm	3	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	0	0.001	0.001



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 25 ANT1	20M	QPSK	1	0	Front	10mm	3	Portrait	-	26140	1860	22.88	23.00	1.028	0.04	0.384	0.394
	LTE Band 25 ANT1	20M	QPSK	50	24	Front	10mm	3	Portrait	-	26140	1860	21.98	22.50	1.127	-0.01	0.315	0.355
	LTE Band 25 ANT1	20M	QPSK	1	0	Back	10mm	3	Portrait	-	26140	1860	22.88	23.00	1.028	-0.06	0.504	0.519
	LTE Band 25 ANT1	20M	QPSK	50	24	Back	10mm	3	Portrait	-	26140	1860	21.98	22.50	1.127	-0.16	0.425	0.479
	LTE Band 25 ANT1	20M	QPSK	1	0	Left Side	10mm	3	Portrait	-	26140	1860	22.88	23.00	1.028	-0.17	0.453	0.466
	LTE Band 25 ANT1	20M	QPSK	50	24	Left Side	10mm	3	Portrait	-	26140	1860	21.98	22.50	1.127	-0.13	0.364	0.410
	LTE Band 25 ANT1	20M	QPSK	1	0	Right Side	10mm	3	Portrait	-	26140	1860	22.88	23.00	1.028	-0.09	0.058	0.059
	LTE Band 25 ANT1	20M	QPSK	50	24	Right Side	10mm	3	Portrait	-	26140	1860	21.98	22.50	1.127	-0.08	0.043	0.049
	LTE Band 25 ANT1	20M	QPSK	1	0	Top Side	10mm	3	Portrait	-	26140	1860	22.88	23.00	1.028	0	0.001	0.001
	LTE Band 25 ANT1	20M	QPSK	50	24	Top Side	10mm	3	Portrait	-	26140	1860	21.98	22.50	1.127	0	0.001	0.001
	LTE Band 25 ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	26140	1860	22.88	23.00	1.028	-0.02	0.917	0.943
	LTE Band 25 ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	26340	1880	22.81	23.00	1.045	-0.08	0.954	0.997
	LTE Band 25 ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	26590	1905	22.88	23.00	1.028	0.08	1.040	1.069
	LTE Band 25 ANT1	20M	QPSK	50	24	Bottom Side	10mm	3	Portrait	-	26140	1860	21.98	22.50	1.127	0.11	0.778	0.877
	LTE Band 25 ANT1	20M	QPSK	50	24	Bottom Side	10mm	3	Portrait	-	26340	1880	21.95	22.50	1.135	-0.05	0.794	0.901
	LTE Band 25 ANT1	20M	QPSK	50	24	Bottom Side	10mm	3	Portrait	-	26590	1905	21.98	22.50	1.127	-0.13	0.861	0.971
	LTE Band 25 ANT1	20M	QPSK	100	0	Bottom Side	10mm	3	Portrait	-	26140	1860	21.94	22.50	1.138	-0.1	0.771	0.877
	LTE Band 25 ANT8	20M	QPSK	1	0	Front	10mm	3	Landscape	-	26140	1860	22.88	24.00	1.294	0.18	0.406	0.526
	LTE Band 25 ANT8	20M	QPSK	50	24	Front	10mm	3	Landscape	-	26140	1860	21.98	23.50	1.419	-0.02	0.331	0.470
	LTE Band 25 ANT8	20M	QPSK	1	0	Back	10mm	3	Landscape	-	26140	1860	22.88	24.00	1.294	-0.1	0.347	0.450
	LTE Band 25 ANT8	20M	QPSK	50	24	Back	10mm	3	Landscape	-	26140	1860	21.98	23.50	1.419	0.01	0.279	0.396
	LTE Band 25 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	26140	1860	22.88	24.00	1.294	0.18	0.890	1.152
	LTE Band 25 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	26340	1880	22.81	24.00	1.315	-0.1	0.889	1.169
38	LTE Band 25 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	26590	1905	22.88	24.00	1.294	-0.01	0.907	1.174
	LTE Band 25 ANT8	20M	QPSK	50	24	Left Side	10mm	3	Landscape	-	26140	1860	21.98	23.50	1.419	0.13	0.756	1.073
	LTE Band 25 ANT8	20M	QPSK	50	24	Left Side	10mm	3	Landscape	-	26340	1880	21.95	23.50	1.429	0.04	0.681	0.973
	LTE Band 25 ANT8	20M	QPSK	50	24	Left Side	10mm	3	Landscape	-	26590	1905	21.98	23.50	1.419	-0.18	0.715	1.015
	LTE Band 25 ANT8	20M	QPSK	100	0	Left Side	10mm	3	Landscape	-	26140	1860	21.94	23.50	1.432	-0.17	0.745	1.066
	LTE Band 25 ANT8	20M	QPSK	1	0	Right Side	10mm	3	Landscape	-	26140	1860	22.88	24.00	1.294	0.08	0.001	0.001
	LTE Band 25 ANT8	20M	QPSK	50	24	Right Side	10mm	3	Landscape	-	26140	1860	21.98	23.50	1.419	0.16	0.001	0.002
	LTE Band 25 ANT8	20M	QPSK	1	0	Top Side	10mm	3	Landscape	-	26140	1860	22.88	24.00	1.294	0.19	0.049	0.063
	LTE Band 25 ANT8	20M	QPSK	50	24	Top Side	10mm	3	Landscape	-	26140	1860	21.98	23.50	1.419	0.19	0.001	0.002
	LTE Band 25 ANT8	20M	QPSK	1	0	Bottom Side	10mm	3	Landscape	-	26140	1860	22.88	24.00	1.294	0.17	0.079	0.103
	LTE Band 25 ANT8	20M	QPSK	50	24	Bottom Side	10mm	3	Landscape	-	26140	1860	21.98	23.50	1.419	0.1	0.067	0.095



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 26 ANT0	15M	QPSK	1	37	Front	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	-0.17	0.344	0.433
	LTE Band 26 ANT0	15M	QPSK	36	20	Front	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	-0.1	0.259	0.316
39	LTE Band 26 ANT0	15M	QPSK	1	37	Back	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	0.06	0.433	0.545
	LTE Band 26 ANT0	15M	QPSK	36	20	Back	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	0.14	0.407	0.497
	LTE Band 26 ANT0	15M	QPSK	1	37	Left Side	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	-0.1	0.064	0.081
	LTE Band 26 ANT0	15M	QPSK	36	20	Left Side	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	-0.14	0.001	0.001
	LTE Band 26 ANT0	15M	QPSK	1	37	Right Side	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	0.11	0.141	0.178
	LTE Band 26 ANT0	15M	QPSK	36	20	Right Side	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	0.05	0.091	0.111
	LTE Band 26 ANT0	15M	QPSK	1	37	Top Side	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	0	0.001	0.001
	LTE Band 26 ANT0	15M	QPSK	36	20	Top Side	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	0	0.001	0.001
	LTE Band 26 ANT0	15M	QPSK	1	37	Bottom Side	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	0.15	0.322	0.405
	LTE Band 26 ANT0	15M	QPSK	36	20	Bottom Side	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	0.04	0.246	0.301
	LTE Band 5B ANT0	10M	QPSK	1	0	Back	10mm	3	Portrait&Landscape	-	20450	829	24.28	25.50	1.324	0.02	0.252	0.334
	LTE Band 26 ANT2	15M	QPSK	1	37	Front	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	-0.06	0.279	0.351
	LTE Band 26 ANT2	15M	QPSK	36	20	Front	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	0.16	0.205	0.250
	LTE Band 26 ANT2	15M	QPSK	1	37	Back	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	0.09	0.244	0.307
	LTE Band 26 ANT2	15M	QPSK	36	20	Back	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	-0.02	0.183	0.224
	LTE Band 26 ANT2	15M	QPSK	1	37	Left Side	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	-0.02	0.043	0.054
	LTE Band 26 ANT2	15M	QPSK	36	20	Left Side	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	-0.15	0.016	0.020
	LTE Band 26 ANT2	15M	QPSK	1	37	Right Side	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	0.14	0.106	0.133
	LTE Band 26 ANT2	15M	QPSK	36	20	Right Side	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	0.16	0.083	0.102
	LTE Band 26 ANT2	15M	QPSK	1	37	Top Side	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	0.01	0.196	0.247
	LTE Band 26 ANT2	15M	QPSK	36	20	Top Side	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	0.18	0.134	0.164
	LTE Band 26 ANT2	15M	QPSK	1	37	Bottom Side	10mm	3	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	0	0.001	0.001
	LTE Band 26 ANT2	15M	QPSK	36	20	Bottom Side	10mm	3	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	0	0.001	0.001
	LTE Band 5B ANT2	10M	QPSK	1	0	Front	10mm	3	Portrait&Landscape	-	20450	829	24.28	25.50	1.324	0.03	0.181	0.240



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 30 ANT1	10M	QPSK	1	0	Front	10mm	3	Portrait	-	27710	2310	22.01	23.50	1.409	0.01	0.260	0.367
	LTE Band 30 ANT1	10M	QPSK	25	25	Front	10mm	3	Portrait	-	27710	2310	21.02	22.50	1.406	0.04	0.237	0.333
	LTE Band 30 ANT1	10M	QPSK	1	0	Back	10mm	3	Portrait	-	27710	2310	22.01	23.50	1.409	-0.16	0.385	0.543
	LTE Band 30 ANT1	10M	QPSK	25	25	Back	10mm	3	Portrait	-	27710	2310	21.02	22.50	1.406	-0.17	0.353	0.496
	LTE Band 30 ANT1	10M	QPSK	1	0	Left Side	10mm	3	Portrait	-	27710	2310	22.01	23.50	1.409	0.1	0.434	0.612
	LTE Band 30 ANT1	10M	QPSK	25	25	Left Side	10mm	3	Portrait	-	27710	2310	21.02	22.50	1.406	0.06	0.402	0.565
	LTE Band 30 ANT1	10M	QPSK	1	0	Right Side	10mm	3	Portrait	-	27710	2310	22.01	23.50	1.409	0.16	0.065	0.091
	LTE Band 30 ANT1	10M	QPSK	25	25	Right Side	10mm	3	Portrait	-	27710	2310	21.02	22.50	1.406	0.13	0.060	0.085
	LTE Band 30 ANT1	10M	QPSK	1	0	Top Side	10mm	3	Portrait	-	27710	2310	22.01	23.50	1.409	-0.02	0.001	0.002
	LTE Band 30 ANT1	10M	QPSK	25	25	Top Side	10mm	3	Portrait	-	27710	2310	21.02	22.50	1.406	0.17	0.001	0.002
40	LTE Band 30 ANT1	10M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	27710	2310	22.01	23.50	1.409	-0.013	0.824	1.161
	LTE Band 30 ANT1	10M	QPSK	25	25	Bottom Side	10mm	3	Portrait	-	27710	2310	21.02	22.50	1.406	0.08	0.723	1.016
	LTE Band 30 ANT1	10M	QPSK	50	0	Bottom Side	10mm	3	Portrait	-	27710	2310	20.99	22.50	1.416	0.04	0.694	0.982
	LTE Band 30 ANT8	10M	QPSK	1	0	Front	10mm	3	Landscape	-	27710	2310	23.98	25.50	1.419	-0.16	0.379	0.538
	LTE Band 30 ANT8	10M	QPSK	25	25	Front	10mm	3	Landscape	-	27710	2310	23.02	24.50	1.406	-0.13	0.311	0.437
	LTE Band 30 ANT8	10M	QPSK	1	0	Back	10mm	3	Landscape	-	27710	2310	23.98	25.50	1.419	0.12	0.314	0.446
	LTE Band 30 ANT8	10M	QPSK	25	25	Back	10mm	3	Landscape	-	27710	2310	23.02	24.50	1.406	0.06	0.253	0.356
	LTE Band 30 ANT8	10M	QPSK	1	0	Left Side	10mm	3	Landscape	-	27710	2310	23.98	25.50	1.419	0.08	0.720	1.022
	LTE Band 30 ANT8	10M	QPSK	25	25	Left Side	10mm	3	Landscape	-	27710	2310	23.02	24.50	1.406	-0.1	0.593	0.834
	LTE Band 30 ANT8	10M	QPSK	50	0	Left Side	10mm	3	Landscape	-	27710	2310	23.02	24.50	1.406	0.06	0.588	0.827
	LTE Band 30 ANT8	10M	QPSK	1	0	Right Side	10mm	3	Landscape	-	27710	2310	23.98	25.50	1.419	0.14	0.011	0.016
	LTE Band 30 ANT8	10M	QPSK	25	25	Right Side	10mm	3	Landscape	-	27710	2310	23.02	24.50	1.406	0.15	0.021	0.030
	LTE Band 30 ANT8	10M	QPSK	1	0	Top Side	10mm	3	Landscape	-	27710	2310	23.98	25.50	1.419	0.09	0.040	0.057
	LTE Band 30 ANT8	10M	QPSK	25	25	Top Side	10mm	3	Landscape	-	27710	2310	23.02	24.50	1.406	0	0.001	0.001
	LTE Band 30 ANT8	10M	QPSK	1	0	Bottom Side	10mm	3	Landscape	-	27710	2310	23.98	25.50	1.419	0.09	0.086	0.122
	LTE Band 30 ANT8	10M	QPSK	25	25	Bottom Side	10mm	3	Landscape	-	27710	2310	23.02	24.50	1.406	-0.03	0.066	0.093



FCC SAR TEST REPORT

Report No. : FA082114A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 66 ANT1	20M	QPSK	1	0	Front	10mm	3	Portrait	-	132322	1745	23.85	25.50	1.462	0.04	0.199	0.291
	LTE Band 66 ANT1	20M	QPSK	50	0	Front	10mm	3	Portrait	-	132322	1745	22.85	24.50	1.462	0.03	0.165	0.241
	LTE Band 66 ANT1	20M	QPSK	1	0	Back	10mm	3	Portrait	-	132322	1745	23.85	25.50	1.462	-0.03	0.281	0.411
	LTE Band 66 ANT1	20M	QPSK	50	0	Back	10mm	3	Portrait	-	132322	1745	22.85	24.50	1.462	-0.17	0.242	0.354
	LTE Band 66 ANT1	20M	QPSK	1	0	Left Side	10mm	3	Portrait	-	132322	1745	23.85	25.50	1.462	-0.07	0.219	0.320
	LTE Band 66 ANT1	20M	QPSK	50	0	Left Side	10mm	3	Portrait	-	132322	1745	22.85	24.50	1.462	0.16	0.208	0.304
	LTE Band 66 ANT1	20M	QPSK	1	0	Right Side	10mm	3	Portrait	-	132322	1745	23.85	25.50	1.462	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	50	0	Right Side	10mm	3	Portrait	-	132322	1745	22.85	24.50	1.462	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	1	0	Top Side	10mm	3	Portrait	-	132322	1745	23.85	25.50	1.462	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	50	0	Top Side	10mm	3	Portrait	-	132322	1745	22.85	24.50	1.462	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	132322	1745	23.85	25.50	1.462	0.09	0.318	0.465
	LTE Band 66 ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	132072	1720	23.61	25.50	1.545	0.16	0.171	0.264
	LTE Band 66 ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	132572	1770	23.67	25.50	1.524	-0.09	0.409	0.623
	LTE Band 66 ANT1	20M	QPSK	50	0	Bottom Side	10mm	3	Portrait	-	132322	1745	22.85	24.50	1.462	-0.11	0.283	0.414
	LTE Band 66 ANT8	20M	QPSK	1	0	Front	10mm	3	Landscape	-	132322	1745	23.85	25.00	1.303	-0.19	0.350	0.456
	LTE Band 66 ANT8	20M	QPSK	50	0	Front	10mm	3	Landscape	-	132322	1745	22.85	24.00	1.303	-0.17	0.280	0.365
	LTE Band 66 ANT8	20M	QPSK	1	0	Back	10mm	3	Landscape	-	132322	1745	23.85	25.00	1.303	-0.01	0.313	0.408
	LTE Band 66 ANT8	20M	QPSK	50	0	Back	10mm	3	Landscape	-	132322	1745	23.85	24.00	1.035	-0.19	0.248	0.257
	LTE Band 66 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	132322	1745	23.85	25.00	1.303	-0.05	0.754	0.983
	LTE Band 66 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	132072	1720	23.61	25.00	1.377	-0.16	0.581	0.800
41	LTE Band 66 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	132572	1770	23.67	25.00	1.358	0.17	0.826	1.122
	LTE Band 66 ANT8	20M	QPSK	50	0	Left Side	10mm	3	Landscape	-	132322	1745	22.85	24.00	1.303	0.07	0.621	0.809
	LTE Band 66 ANT8	20M	QPSK	50	0	Left Side	10mm	3	Landscape	-	132072	1720	22.82	24.00	1.312	-0.01	0.601	0.789
	LTE Band 66 ANT8	20M	QPSK	50	0	Left Side	10mm	3	Landscape	-	132572	1770	22.70	24.00	1.349	0	0.598	0.807
	LTE Band 66 ANT8	20M	QPSK	100	0	Left Side	10mm	3	Landscape	-	132322	1745	22.84	24.00	1.306	0.12	0.687	0.897
	LTE Band 66 ANT8	20M	QPSK	1	0	Right Side	10mm	3	Landscape	-	132322	1745	23.85	25.00	1.303	0	0.001	0.001
	LTE Band 66 ANT8	20M	QPSK	50	0	Right Side	10mm	3	Landscape	-	132322	1745	22.85	24.00	1.303	0	0.001	0.001
	LTE Band 66 ANT8	20M	QPSK	1	0	Top Side	10mm	3	Landscape	-	132322	1745	23.85	25.00	1.303	0	0.001	0.001
	LTE Band 66 ANT8	20M	QPSK	50	0	Top Side	10mm	3	Landscape	-	132322	1745	22.85	24.00	1.303	0	0.001	0.001
	LTE Band 66 ANT8	20M	QPSK	1	0	Bottom Side	10mm	3	Landscape	-	132322	1745	23.85	25.00	1.303	0.18	0.056	0.073
	LTE Band 66 ANT8	20M	QPSK	50	0	Bottom Side	10mm	3	Landscape	-	132322	1745	22.85	24.00	1.303	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	1	0	Front	10mm	3	Landscape	-	132322	1745	23.18	24.50	1.355	-0.12	0.138	0.187
	LTE Band 66 ANT1	20M	QPSK	50	0	Front	10mm	3	Landscape	-	132322	1745	22.25	23.50	1.334	0.15	0.113	0.151
	LTE Band 66 ANT1	20M	QPSK	1	0	Back	10mm	3	Landscape	-	132322	1745	23.18	24.50	1.355	-0.04	0.208	0.282
	LTE Band 66 ANT1	20M	QPSK	1	0	Back	10mm	3	Landscape	-	132072	1720	23.14	24.50	1.368	-0.06	0.182	0.249
	LTE Band 66 ANT1	20M	QPSK	1	0	Back	10mm	3	Landscape	-	132572	1770	23.12	24.50	1.374	0.09	0.243	0.334
	LTE Band 66 ANT1	20M	QPSK	50	0	Back	10mm	3	Landscape	-	132322	1745	22.25	23.50	1.334	-0.1	0.172	0.229
	LTE Band 66 ANT1	20M	QPSK	1	0	Left Side	10mm	3	Landscape	-	132322	1745	23.18	24.50	1.355	-0.06	0.163	0.221
	LTE Band 66 ANT1	20M	QPSK	50	0	Left Side	10mm	3	Landscape	-	132322	1745	22.25	23.50	1.334	-0.08	0.133	0.177
	LTE Band 66 ANT1	20M	QPSK	1	0	Right Side	10mm	3	Landscape	-	132322	1745	23.18	24.50	1.355	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	50	0	Right Side	10mm	3	Landscape	-	132322	1745	22.25	23.50	1.334	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	1	0	Top Side	10mm	3	Landscape	-	132322	1745	23.18	24.50	1.355	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	50	0	Top Side	10mm	3	Landscape	-	132322	1745	22.25	23.50	1.334	0	0.001	0.001
	LTE Band 66 ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Landscape	-	132322	1745	23.18	24.50	1.355	0.03	0.132	0.179
	LTE Band 66 ANT1	20M	QPSK	50	0	Bottom Side	10mm	3	Landscape	-	132322	1745	22.25	23.50	1.334	-0.13	0.108	0.144
	LTE Band 66 ANT8	20M	QPSK	1	0	Front	10mm	3	Portrait	-	132322	1745	18.25	20.00	1.496	0.06	0.108	0.162
	LTE Band 66 ANT8	20M	QPSK	50	0	Front	10mm	3	Portrait	-	132322	1745	17.34	19.00	1.466	-0.14	0.088	0.129
	LTE Band 66 ANT8	20M	QPSK	1	0	Back	10mm	3	Portrait	-	132322	1745	18.25	20.00	1.496	-0.07	0.089	0.133
	LTE Band 66 ANT8	20M	QPSK	50	0	Back	10mm	3	Portrait	-	132322	1745	17.34	19.00	1.466	-0.05	0.073	0.107
	LTE Band 66 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Portrait	-	132322	1745	18.25	20.00	1.496	-0.15	0.225	0.337
	LTE Band 66 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Portrait	-	132072	1720	18.24	20.00	1.500	0.09	0.209	0.313
	LTE Band 66 ANT8	20M	QPSK	1	0	Left Side	10mm	3	Portrait	-	132572	1770	18.25	20.00	1.496	-0.06	0.240	0.359
	LTE Band 66 ANT8	20M	QPSK	50	0	Left Side	10mm	3	Portrait	-	132322	1745	17.34	19.00	1.466	0.06	0.187	0.274



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LTE Band 66 ANT8	20M	QPSK	1	0	Right Side	10mm	3	Portrait	-	132322	1745	18.25	20.00	1.496	0	0.001	0.001
LTE Band 66 ANT8	20M	QPSK	50	0	Right Side	10mm	3	Portrait	-	132322	1745	17.34	19.00	1.466	0	0.001	0.001
LTE Band 66 ANT8	20M	QPSK	1	0	Top Side	10mm	3	Portrait	-	132322	1745	18.25	20.00	1.496	0	0.001	0.001
LTE Band 66 ANT8	20M	QPSK	50	0	Top Side	10mm	3	Portrait	-	132322	1745	17.34	19.00	1.466	0	0.001	0.001
LTE Band 66 ANT8	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	132322	1745	18.25	20.00	1.496	-0.03	0.023	0.034
LTE Band 66 ANT8	20M	QPSK	50	0	Bottom Side	10mm	3	Portrait	-	132322	1745	17.34	19.00	1.466	0.15	0.020	0.029

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 71 ANT0	20M	QPSK	1	99	Front	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	0.07	0.177	0.183
	LTE Band 71 ANT0	20M	QPSK	50	50	Front	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	-0.01	0.163	0.168
42	LTE Band 71 ANT0	20M	QPSK	1	0	Back	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	0.03	0.262	0.271
	LTE Band 71 ANT0	20M	QPSK	50	50	Back	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	-0.1	0.227	0.233
	LTE Band 71 ANT0	20M	QPSK	1	99	Left Side	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	-0.19	0.056	0.058
	LTE Band 71 ANT0	20M	QPSK	50	50	Left Side	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	0.1	0.055	0.057
	LTE Band 71 ANT0	20M	QPSK	1	99	Right Side	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	-0.07	0.151	0.156
	LTE Band 71 ANT0	20M	QPSK	50	50	Right Side	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	-0.11	0.135	0.139
	LTE Band 71 ANT0	20M	QPSK	1	99	Top Side	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	0	0.001	0.001
	LTE Band 71 ANT0	20M	QPSK	50	50	Top Side	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	0	0.001	0.001
	LTE Band 71 ANT0	20M	QPSK	1	99	Bottom Side	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	0.15	0.144	0.149
	LTE Band 71 ANT0	20M	QPSK	50	50	Bottom Side	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	0.14	0.139	0.143
	LTE Band 71 ANT2	20M	QPSK	1	99	Front	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	0.1	0.159	0.165
	LTE Band 71 ANT2	20M	QPSK	50	50	Front	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	-0.04	0.169	0.174
	LTE Band 71 ANT2	20M	QPSK	1	99	Back	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	-0.09	0.125	0.129
	LTE Band 71 ANT2	20M	QPSK	50	50	Back	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	-0.07	0.133	0.137
	LTE Band 71 ANT2	20M	QPSK	1	99	Left Side	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	0	0.001	0.001
	LTE Band 71 ANT2	20M	QPSK	50	50	Left Side	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	0	0.001	0.001
	LTE Band 71 ANT2	20M	QPSK	1	99	Right Side	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	-0.15	0.082	0.085
	LTE Band 71 ANT2	20M	QPSK	50	50	Right Side	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	0.13	0.090	0.093
	LTE Band 71 ANT2	20M	QPSK	1	99	Top Side	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	-0.08	0.100	0.104
	LTE Band 71 ANT2	20M	QPSK	50	50	Top Side	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	-0.18	0.118	0.121
	LTE Band 71 ANT2	20M	QPSK	1	99	Bottom Side	10mm	3	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	0	0.001	0.001
	LTE Band 71 ANT2	20M	QPSK	50	50	Bottom Side	10mm	3	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	0	0.001	0.001



<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 41 ANT1	20M	QPSK	1	49	Front	10mm	3	Portrait	-	40185	2549.5	24.11	25.50	1.377	62.9	1.006	0.18	0.252	0.349
	LTE Band 41 ANT1	20M	QPSK	50	0	Front	10mm	3	Portrait	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	-0.05	0.206	0.277
	LTE Band 41 ANT1	20M	QPSK	1	49	Back	10mm	3	Portrait	-	40185	2549.5	24.11	25.50	1.377	62.9	1.006	0.07	0.492	0.682
	LTE Band 41 ANT1	20M	QPSK	1	49	Back	10mm	3	Portrait	-	39750	2506	24.09	25.50	1.384	62.9	1.006	-0.04	0.432	0.601
	LTE Band 41 ANT1	20M	QPSK	1	49	Back	10mm	3	Portrait	-	40620	2593	24.11	25.50	1.377	62.9	1.006	0.15	0.472	0.654
	LTE Band 41 ANT1	20M	QPSK	1	49	Back	10mm	3	Portrait	-	41055	2636.5	24.08	25.50	1.387	62.9	1.006	-0.14	0.310	0.432
	LTE Band 41 ANT1	20M	QPSK	1	49	Back	10mm	3	Portrait	-	41490	2680	23.93	25.50	1.435	62.9	1.006	0.15	0.309	0.446
	LTE Band 41 ANT1	20M	QPSK	50	0	Back	10mm	3	Portrait	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	-0.15	0.400	0.538
	LTE Band 41 ANT1	20M	QPSK	100	0	Back	10mm	3	Portrait	-	40185	2549.5	23.26	24.50	1.330	62.9	1.006	0.18	0.423	0.566
	LTE Band 41 ANT1	20M	QPSK	1	49	Left Side	10mm	3	Portrait	-	40185	2549.5	24.11	25.50	1.377	62.9	1.006	-0.09	0.406	0.563
	LTE Band 41 ANT1	20M	QPSK	50	0	Left Side	10mm	3	Portrait	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	0.16	0.343	0.461
	LTE Band 41 ANT1	20M	QPSK	1	49	Right Side	10mm	3	Portrait	-	40185	2549.5	24.11	25.50	1.377	62.9	1.006	0.1	0.049	0.068
	LTE Band 41 ANT1	20M	QPSK	50	0	Right Side	10mm	3	Portrait	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	0.09	0.039	0.052
	LTE Band 41 ANT1	20M	QPSK	1	49	Top Side	10mm	3	Portrait	-	40620	2593	24.11	25.50	1.377	62.9	1.006	0	0.001	0.001
	LTE Band 41 ANT1	20M	QPSK	50	0	Top Side	10mm	3	Portrait	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	0	0.001	0.001
	LTE Band 41 ANT1	20M	QPSK	1	49	Bottom Side	10mm	3	Portrait	-	40185	2549.5	24.11	25.50	1.377	62.9	1.006	-0.14	0.604	0.837
	LTE Band 41 ANT1	20M	QPSK	1	49	Bottom Side	10mm	3	Portrait	-	39750	2506	24.09	25.50	1.384	62.9	1.006	0.11	0.656	0.913
	LTE Band 41 ANT1	20M	QPSK	1	49	Bottom Side	10mm	3	Portrait	-	40620	2593	24.11	25.50	1.377	62.9	1.006	0.01	0.515	0.714
	LTE Band 41 ANT1	20M	QPSK	1	49	Bottom Side	10mm	3	Portrait	-	41055	2636.5	24.08	25.50	1.387	62.9	1.006	0.13	0.393	0.548
	LTE Band 41 ANT1	20M	QPSK	1	49	Bottom Side	10mm	3	Portrait	-	41490	2680	23.93	25.50	1.435	62.9	1.006	-0.01	0.263	0.380
	LTE Band 41 ANT1	20M	QPSK	50	0	Bottom Side	10mm	3	Portrait	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	0.09	0.495	0.666
	LTE Band 41 ANT1	20M	QPSK	50	0	Bottom Side	10mm	3	Portrait	-	39750	2506	23.23	24.50	1.340	62.9	1.006	0.16	0.491	0.662
	LTE Band 41 ANT1	20M	QPSK	50	24	Bottom Side	10mm	3	Portrait	-	40620	2593	23.18	24.50	1.355	62.9	1.006	0.01	0.399	0.544
	LTE Band 41 ANT1	20M	QPSK	50	24	Bottom Side	10mm	3	Portrait	-	41055	2636.5	23.22	24.50	1.343	62.9	1.006	0.02	0.199	0.269
	LTE Band 41 ANT1	20M	QPSK	50	0	Bottom Side	10mm	3	Portrait	-	41490	2680	23.01	24.50	1.409	62.9	1.006	-0.07	0.169	0.240
	LTE Band 41 ANT1	20M	QPSK	100	0	Bottom Side	10mm	3	Portrait	-	40185	2549.5	23.26	24.50	1.330	62.9	1.006	-0.01	0.513	0.687
	LTE Band 41C ANT1	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait	-	40185	2549.5	24.19	25.50	1.352	62.9	1.006	-0.08	0.512	0.696
	LTE Band 41 ANT8	20M	QPSK	1	49	Front	10mm	3	Landscape	-	40185	2549.5	24.11	25.50	1.377	62.9	1.006	-0.07	0.309	0.428
	LTE Band 41 ANT8	20M	QPSK	50	0	Front	10mm	3	Landscape	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	-0.04	0.242	0.326
	LTE Band 41 ANT8	20M	QPSK	1	49	Back	10mm	3	Landscape	-	40185	2549.5	24.11	25.50	1.377	62.9	1.006	-0.02	0.302	0.418
	LTE Band 41 ANT8	20M	QPSK	50	0	Back	10mm	3	Landscape	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	-0.09	0.251	0.338
	LTE Band 41 ANT8	20M	QPSK	1	49	Left Side	10mm	3	Landscape	-	40185	2549.5	24.11	25.50	1.377	62.9	1.006	0.01	0.628	0.870
43	LTE Band 41 ANT8	20M	QPSK	1	49	Left Side	10mm	3	Landscape	-	39750	2506	24.09	25.50	1.384	62.9	1.006	0.127	0.714	0.994
	LTE Band 41 ANT8	20M	QPSK	1	49	Left Side	10mm	3	Landscape	-	40620	2593	24.11	25.50	1.377	62.9	1.006	-0.18	0.579	0.803
	LTE Band 41 ANT8	20M	QPSK	1	49	Left Side	10mm	3	Landscape	-	41055	2636.5	24.08	25.50	1.387	62.9	1.006	-0.02	0.545	0.761
	LTE Band 41 ANT8	20M	QPSK	1	49	Left Side	10mm	3	Landscape	-	41490	2680	23.93	25.50	1.435	62.9	1.006	0.17	0.412	0.596
	LTE Band 41 ANT8	20M	QPSK	50	0	Left Side	10mm	3	Landscape	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	0.02	0.483	0.650
	LTE Band 41 ANT8	20M	QPSK	50	0	Left Side	10mm	3	Landscape	-	39750	2506	23.23	24.50	1.340	62.9	1.006	0.11	0.601	0.810
	LTE Band 41 ANT8	20M	QPSK	50	24	Left Side	10mm	3	Landscape	-	40620	2593	23.18	24.50	1.355	62.9	1.006	0.01	0.488	0.665
	LTE Band 41 ANT8	20M	QPSK	50	24	Left Side	10mm	3	Landscape	-	41055	2636.5	23.22	24.50	1.343	62.9	1.006	0.13	0.463	0.625
	LTE Band 41 ANT8	20M	QPSK	50	0	Left Side	10mm	3	Landscape	-	41490	2680	23.01	24.50	1.409	62.9	1.006	-0.01	0.386	0.547
	LTE Band 41 ANT8	20M	QPSK	100	0	Left Side	10mm	3	Landscape	-	40185	2549.5	23.26	24.50	1.330	62.9	1.006	-0.01	0.477	0.638
	LTE Band 41 ANT8	20M	QPSK	1	49	Right Side	10mm	3	Landscape	-	40185	2549.5	24.11	25.50	1.377	62.9	1.006	0.07	0.046	0.063
	LTE Band 41 ANT8	20M	QPSK	50	0	Right Side	10mm	3	Landscape	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	-0.13	0.001	0.002
	LTE Band 41 ANT8	20M	QPSK	1	49	Top Side	10mm	3	Landscape	-	40620	2593	24.11	25.50	1.377	62.9	1.006	0.04	0.001	0.002
	LTE Band 41 ANT8	20M	QPSK	50	0	Top Side	10mm	3	Landscape	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	0.17	0.001	0.002
	LTE Band 41 ANT8	20M	QPSK	1	49	Bottom Side	10mm	3	Landscape	-	40185	2549.5	24.11	25.50	1.377	62.9	1.006	0.07	0.050	0.070
	LTE Band 41 ANT8	20M	QPSK	50	0	Bottom Side	10mm	3	Landscape	-	40185	2549.5	23.24	24.50	1.337	62.9	1.006	0.02	0.040	0.054



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 48 ANT9	20M	QPSK	1	0	Front	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	-0.11	0.089	0.113
	LTE Band 48 ANT9	20M	QPSK	50	0	Front	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	-0.03	0.085	0.108
	LTE Band 48 ANT9	20M	QPSK	1	0	Back	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	0.04	0.159	0.203
	LTE Band 48 ANT9	20M	QPSK	50	0	Back	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	-0.15	0.132	0.168
	LTE Band 48 ANT9	20M	QPSK	1	0	Left Side	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	0.16	0.274	0.349
	LTE Band 48 ANT9	20M	QPSK	1	0	Left Side	10mm	3	Portrait&Landscape	-	55340	3560	20.84	22.00	1.306	62.9	1.006	-0.17	0.290	0.381
	LTE Band 48 ANT9	20M	QPSK	1	0	Left Side	10mm	3	Portrait&Landscape	-	56150	3641	20.92	22.00	1.282	62.9	1.006	-0.18	0.263	0.339
	LTE Band 48 ANT9	20M	QPSK	1	0	Left Side	10mm	3	Portrait&Landscape	-	56640	3690	20.86	22.00	1.300	62.9	1.006	0.12	0.311	0.407
	LTE Band 48 ANT9	20M	QPSK	50	0	Left Side	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	-0.1	0.211	0.268
	LTE Band 48 ANT9	20M	QPSK	1	0	Right Side	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT9	20M	QPSK	50	0	Right Side	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT9	20M	QPSK	1	0	Top Side	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT9	20M	QPSK	50	0	Top Side	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT9	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT9	20M	QPSK	50	0	Bottom Side	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	1	0	Front	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	50	0	Front	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	1	0	Back	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	-0.14	0.294	0.375
	LTE Band 48 ANT11	20M	QPSK	1	0	Back	10mm	3	Portrait&Landscape	-	55340	3560	20.84	22.00	1.306	62.9	1.006	-0.07	0.244	0.321
	LTE Band 48 ANT11	20M	QPSK	1	0	Back	10mm	3	Portrait&Landscape	-	56150	3641	20.92	22.00	1.282	62.9	1.006	-0.05	0.348	0.449
44	LTE Band 48 ANT11	20M	QPSK	1	0	Back	10mm	3	Portrait&Landscape	-	56640	3690	20.86	22.00	1.300	62.9	1.006	-0.17	0.369	0.483
	LTE Band 48 ANT11	20M	QPSK	50	0	Back	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	-0.03	0.228	0.290
	LTE Band 48 ANT11	20M	QPSK	1	0	Left Side	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	50	0	Left Side	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	1	0	Right Side	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	50	0	Right Side	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	1	0	Top Side	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	50	0	Top Side	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	1	0	Bottom Side	10mm	3	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	62.9	1.006	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	50	0	Bottom Side	10mm	3	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	62.9	1.006	0	0.001	0.001



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 n5_Ant 0	20M	BPSK	1	1	DFT-15	Front	10mm	3	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	-0.09	0.138	0.190
	FR1 n5_Ant 0	20M	BPSK	50	28	DFT-15	Front	10mm	3	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	-0.19	0.160	0.225
	FR1 n5_Ant 0	20M	BPSK	1	1	DFT-15	Back	10mm	3	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	-0.07	0.212	0.293
	FR1 n5_Ant 0	20M	BPSK	50	28	DFT-15	Back	10mm	3	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	-0.03	0.231	0.326
	FR1 n5_Ant 0	20M	BPSK	1	1	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	0	0.001	0.001
	FR1 n5_Ant 0	20M	BPSK	50	28	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	0	0.001	0.001
	FR1 n5_Ant 0	20M	BPSK	1	1	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	0	0.001	0.001
	FR1 n5_Ant 0	20M	BPSK	50	28	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	0	0.001	0.001
	FR1 n5_Ant 0	20M	BPSK	1	1	DFT-15	Bottom Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	0.06	0.145	0.200
	FR1 n5_Ant 0	20M	BPSK	50	28	DFT-15	Bottom Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	0.11	0.166	0.234
	FR1 n5_Ant 2	20M	BPSK	1	1	DFT-15	Front	10mm	3	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	0.14	0.240	0.331
45	FR1 n5_Ant 2	20M	BPSK	50	28	DFT-15	Front	10mm	3	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	-0.09	0.253	0.357
	FR1 n5_Ant 2	20M	BPSK	1	1	DFT-15	Back	10mm	3	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	-0.04	0.255	0.352
	FR1 n5_Ant 2	20M	BPSK	50	28	DFT-15	Back	10mm	3	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	-0.17	0.251	0.353
	FR1 n5_Ant 2	20M	BPSK	1	1	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	0.13	0.001	0.002
	FR1 n5_Ant 2	20M	BPSK	50	28	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	-0.1	0.001	0.002
	FR1 n5_Ant 2	20M	BPSK	1	1	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	-0.14	0.112	0.155
	FR1 n5_Ant 2	20M	BPSK	50	28	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	-0.07	0.107	0.150
	FR1 n5_Ant 2	20M	BPSK	1	1	DFT-15	Top Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	-0.15	0.165	0.228
	FR1 n5_Ant 2	20M	BPSK	50	28	DFT-15	Top Side	10mm	3	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	0.11	0.142	0.200
	FR1 n7_Ant 1	50M	BPSK	1	268	DFT-15	Front	10mm	3	Portrait	-	507000	2535	23.46	23.50	1.009	0.03	0.368	0.371
	FR1 n7_Ant 1	50M	BPSK	135	68	DFT-15	Front	10mm	3	Portrait	-	507000	2535	23.41	23.50	1.021	0.12	0.377	0.385
	FR1 n7_Ant 1	50M	BPSK	1	268	DFT-15	Back	10mm	3	Portrait	-	507000	2535	23.46	23.50	1.009	-0.19	0.654	0.660
	FR1 n7_Ant 1	50M	BPSK	135	68	DFT-15	Back	10mm	3	Portrait	-	507000	2535	23.41	23.50	1.021	0.12	0.638	0.651
	FR1 n7_Ant 1	50M	BPSK	1	268	DFT-15	Left Side	10mm	3	Portrait	-	507000	2535	23.46	23.50	1.009	0.14	0.531	0.536
	FR1 n7_Ant 1	50M	BPSK	135	68	DFT-15	Left Side	10mm	3	Portrait	-	507000	2535	23.41	23.50	1.021	0.01	0.492	0.502
	FR1 n7_Ant 1	50M	BPSK	1	268	DFT-15	Bottom Side	10mm	3	Portrait	-	507000	2535	23.46	23.50	1.009	-0.1	0.871	0.879
46	FR1 n7_Ant 1	50M	BPSK	135	68	DFT-15	Bottom Side	10mm	3	Portrait	-	507000	2535	23.41	23.50	1.021	-0.19	0.896	0.915
	FR1 n7_Ant 1	50M	BPSK	270	0	DFT-15	Bottom Side	10mm	3	Portrait	-	507000	2535	22.91	23.50	1.146	-0.01	0.798	0.914
	FR1 n7_Ant 8	50M	BPSK	1	268	DFT-15	Front	10mm	3	Landscape	-	507000	2535	23.46	24.50	1.271	0.07	0.322	0.410
	FR1 n7_Ant 8	50M	BPSK	135	68	DFT-15	Front	10mm	3	Landscape	-	507000	2535	23.41	24.50	1.285	0.12	0.348	0.447
	FR1 n7_Ant 8	50M	BPSK	1	268	DFT-15	Back	10mm	3	Landscape	-	507000	2535	23.46	24.50	1.271	0.19	0.336	0.427
	FR1 n7_Ant 8	50M	BPSK	135	68	DFT-15	Back	10mm	3	Landscape	-	507000	2535	23.41	24.50	1.285	-0.11	0.361	0.465
	FR1 n7_Ant 8	50M	BPSK	1	268	DFT-15	Left Side	10mm	3	Landscape	-	507000	2535	23.46	24.50	1.271	-0.16	0.597	0.759
	FR1 n7_Ant 8	50M	BPSK	135	68	DFT-15	Left Side	10mm	3	Landscape	-	507000	2535	23.41	24.50	1.285	-0.15	0.602	0.774



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 n12_Ant 0	15M	BPSK	1	1	DFT-15	Front	10mm	3	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	-0.17	0.181	0.244
	FR1 n12_Ant 0	15M	BPSK	36	22	DFT-15	Front	10mm	3	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	-0.19	0.183	0.252
47	FR1 n12_Ant 0	15M	BPSK	1	1	DFT-15	Back	10mm	3	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	-0.09	0.310	0.417
	FR1 n12_Ant 0	15M	BPSK	36	22	DFT-15	Back	10mm	3	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	0.08	0.273	0.376
	FR1 n12_Ant 0	15M	BPSK	1	1	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	-0.06	0.056	0.075
	FR1 n12_Ant 0	15M	BPSK	36	22	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	0.14	0.061	0.084
	FR1 n12_Ant 0	15M	BPSK	1	1	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	-0.1	0.141	0.190
	FR1 n12_Ant 0	15M	BPSK	36	22	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	-0.09	0.140	0.193
	FR1 n12_Ant 0	15M	BPSK	1	1	DFT-15	Bottom Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	-0.16	0.165	0.222
	FR1 n12_Ant 0	15M	BPSK	36	22	DFT-15	Bottom Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	-0.04	0.161	0.221
	FR1 n12_Ant 2	15M	BPSK	1	1	DFT-15	Front	10mm	3	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	0.12	0.116	0.156
	FR1 n12_Ant 2	15M	BPSK	36	22	DFT-15	Front	10mm	3	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	0.02	0.098	0.135
	FR1 n12_Ant 2	15M	BPSK	1	1	DFT-15	Back	10mm	3	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	0.07	0.118	0.159
	FR1 n12_Ant 2	15M	BPSK	36	22	DFT-15	Back	10mm	3	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	0.09	0.094	0.129
	FR1 n12_Ant 2	15M	BPSK	1	1	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	0	0.001	0.001
	FR1 n12_Ant 2	15M	BPSK	36	22	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	0	0.001	0.001
	FR1 n12_Ant 2	15M	BPSK	1	1	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	0.14	0.071	0.096
	FR1 n12_Ant 2	15M	BPSK	36	22	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	-0.05	0.060	0.083
	FR1 n12_Ant 2	15M	BPSK	1	1	DFT-15	Top Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	-0.13	0.073	0.099
	FR1 n12_Ant 2	15M	BPSK	36	22	DFT-15	Top Side	10mm	3	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	-0.16	0.066	0.091
	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Front	10mm	3	Portrait	-	376500	1882.5	23.12	23.50	1.091	-0.06	0.400	0.436
	FR1 n25_Ant 1	40M	BPSK	108	54	DFT-15	Front	10mm	3	Portrait	-	376500	1882.5	22.93	23.50	1.140	-0.19	0.355	0.405
	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Back	10mm	3	Portrait	-	376500	1882.5	23.12	23.50	1.091	-0.11	0.538	0.587
	FR1 n25_Ant 1	40M	BPSK	108	54	DFT-15	Back	10mm	3	Portrait	-	376500	1882.5	22.93	23.50	1.140	-0.01	0.481	0.548
	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Left Side	10mm	3	Portrait	-	376500	1882.5	23.12	23.50	1.091	-0.06	0.406	0.443
	FR1 n25_Ant 1	40M	BPSK	108	54	DFT-15	Left Side	10mm	3	Portrait	-	376500	1882.5	22.93	23.50	1.140	-0.18	0.456	0.520
48	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Bottom Side	10mm	3	Portrait	-	376500	1882.5	23.12	23.50	1.091	-0.1	1.080	1.179
	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Bottom Side	10mm	3	Portrait	V	376500	1882.5	23.12	23.50	1.091	0.03	0.867	0.946
	FR1 n25_Ant 1	40M	BPSK	108	54	DFT-15	Bottom Side	10mm	3	Portrait	-	376500	1882.5	22.93	23.50	1.140	-0.03	0.951	1.084
	FR1 n25_Ant 1	40M	BPSK	216	0	DFT-15	Bottom Side	10mm	3	Portrait	-	376500	1882.5	22.51	23.50	1.256	-0.05	0.931	1.169
	FR1 n25_Ant 8	40M	BPSK	1	214	DFT-15	Front	10mm	3	Landscape	-	376500	1882.5	23.12	24.00	1.225	-0.14	0.392	0.480
	FR1 n25_Ant 8	40M	BPSK	108	54	DFT-15	Front	10mm	3	Landscape	-	376500	1882.5	22.93	24.00	1.279	-0.18	0.345	0.441
	FR1 n25_Ant 8	40M	BPSK	1	214	DFT-15	Back	10mm	3	Landscape	-	376500	1882.5	23.12	24.00	1.225	-0.08	0.327	0.400
	FR1 n25_Ant 8	40M	BPSK	108	54	DFT-15	Back	10mm	3	Landscape	-	376500	1882.5	22.93	24.00	1.279	-0.16	0.305	0.390
	FR1 n25_Ant 8	40M	BPSK	1	214	DFT-15	Left Side	10mm	3	Landscape	-	376500	1882.5	23.12	24.00	1.225	-0.12	0.931	1.140
	FR1 n25_Ant 8	40M	BPSK	108	54	DFT-15	Left Side	10mm	3	Landscape	-	376500	1882.5	22.93	24.00	1.279	-0.06	0.793	1.014
	FR1 n25_Ant 8	40M	BPSK	216	0	DFT-15	Left Side	10mm	3	Landscape	-	376500	1882.5	22.51	24.00	1.409	-0.14	0.803	1.131



FCC SAR TEST REPORT

Report No. : FA082114A

Table with 20 columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Output Power State, Device Mode, Aero Active Cooler, 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). Rows include test results for various antennas (e.g., FR1 n38_Ant 9, FR1 n41_Ant 9) and modes (Portrait, Landscape).



FCC SAR TEST REPORT

Report No. : FA082114A

	FR1 n41_Ant 8	100M	QPSK	1	271	CP-30	Left Side	10mm	3	Landscape	-	518598	2592.99	20.70	21.50	1.202	-0.14	0.005	0.006
	FR1 n41_Ant 8	100M	QPSK	135	69	CP-30	Left Side	10mm	3	Landscape	-	518598	2592.99	20.85	21.50	1.161	0	0.001	0.001
	FR1 n41_Ant 9	100M	QPSK	1	1	CP-30	Front	10mm	3	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	-0.08	0.214	0.263
	FR1 n41_Ant 9	100M	QPSK	135	138	CP-30	Front	10mm	3	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	-0.17	0.219	0.265
	FR1 n41_Ant 9	100M	QPSK	1	1	CP-30	Back	10mm	3	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	-0.01	0.118	0.145
	FR1 n41_Ant 9	100M	QPSK	135	138	CP-30	Back	10mm	3	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	0.19	0.152	0.184
	FR1 n41_Ant 9	100M	QPSK	1	1	CP-30	Left Side	10mm	3	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	0.1	0.435	0.535
	FR1 n41_Ant 9	100M	QPSK	135	138	CP-30	Left Side	10mm	3	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	-0.04	0.654	0.792
	FR1 n41_Ant 11	100M	QPSK	1	1	CP-30	Front	10mm	3	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	0	0.001	0.001
	FR1 n41_Ant 11	100M	QPSK	135	138	CP-30	Front	10mm	3	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	0	0.001	0.001
	FR1 n41_Ant 11	100M	QPSK	1	1	CP-30	Back	10mm	3	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	-0.14	0.301	0.370
	FR1 n41_Ant 11	100M	QPSK	135	138	CP-30	Back	10mm	3	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	-0.15	0.307	0.372
	FR1 n41_Ant 11	100M	QPSK	1	1	CP-30	Left Side	10mm	3	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	0	0.001	0.001
	FR1 n41_Ant 11	100M	QPSK	135	138	CP-30	Left Side	10mm	3	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	0	0.001	0.001
	FR1 n41_Ant 11	100M	QPSK	1	1	CP-30	Bottom Side	10mm	3	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	-0.11	0.059	0.073
	FR1 n41_Ant 11	100M	QPSK	135	138	CP-30	Bottom Side	10mm	3	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	0.01	0.076	0.092
	FR1 n66_Ant 1	40M	BPSK	1	214	DFT-15	Front	10mm	3	Portrait	-	349000	1745	23.23	24.50	1.340	-0.11	0.213	0.285
	FR1 n66_Ant 1	40M	BPSK	108	54	DFT-15	Front	10mm	3	Portrait	-	349000	1745	22.97	24.50	1.422	-0.09	0.203	0.289
	FR1 n66_Ant 1	40M	BPSK	1	214	DFT-15	Back	10mm	3	Portrait	-	349000	1745	23.23	24.50	1.340	-0.13	0.284	0.380
	FR1 n66_Ant 1	40M	BPSK	108	54	DFT-15	Back	10mm	3	Portrait	-	349000	1745	22.97	24.50	1.422	-0.12	0.259	0.368
	FR1 n66_Ant 1	40M	BPSK	1	214	DFT-15	Left Side	10mm	3	Portrait	-	349000	1745	23.23	24.50	1.340	0.04	0.234	0.313
	FR1 n66_Ant 1	40M	BPSK	108	54	DFT-15	Left Side	10mm	3	Portrait	-	349000	1745	22.97	24.50	1.422	-0.19	0.230	0.327
	FR1 n66_Ant 1	40M	BPSK	1	214	DFT-15	Bottom Side	10mm	3	Portrait	-	349000	1745	23.23	24.50	1.340	-0.02	0.360	0.482
	FR1 n66_Ant 1	40M	BPSK	108	54	DFT-15	Bottom Side	10mm	3	Portrait	-	349000	1745	22.97	24.50	1.422	-0.13	0.316	0.449
	FR1 n66_Ant 8	40M	BPSK	1	214	DFT-15	Front	10mm	3	Landscape	-	349000	1745	23.23	24.50	1.340	0.14	0.281	0.376
	FR1 n66_Ant 8	40M	BPSK	108	54	DFT-15	Front	10mm	3	Landscape	-	349000	1745	22.97	24.50	1.422	0.06	0.260	0.370
	FR1 n66_Ant 8	40M	BPSK	1	214	DFT-15	Back	10mm	3	Landscape	-	349000	1745	23.23	24.50	1.340	-0.07	0.236	0.316
	FR1 n66_Ant 8	40M	BPSK	108	54	DFT-15	Back	10mm	3	Landscape	-	349000	1745	22.97	24.50	1.422	-0.08	0.204	0.290
51	FR1 n66_Ant 8	40M	BPSK	1	214	DFT-15	Left Side	10mm	3	Landscape	-	349000	1745	23.23	24.50	1.340	-0.14	0.697	0.934
	FR1 n66_Ant 8	40M	BPSK	108	54	DFT-15	Left Side	10mm	3	Landscape	-	349000	1745	22.97	24.50	1.422	0.07	0.554	0.788



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 n71_Ant 0	20M	BPSK	1	1	DFT-15	Front	10mm	3	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	0.08	0.152	0.211
	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Front	10mm	3	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	0.06	0.172	0.240
	FR1 n71_Ant 0	20M	BPSK	1	1	DFT-15	Back	10mm	3	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	-0.1	0.231	0.321
52	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Back	10mm	3	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	0.09	0.258	0.359
	FR1 n71_Ant 0	20M	BPSK	1	1	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	0.08	0.055	0.076
	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	-0.18	0.050	0.070
	FR1 n71_Ant 0	20M	BPSK	1	1	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	-0.02	0.082	0.114
	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	-0.12	0.109	0.152
	FR1 n71_Ant 0	20M	BPSK	1	1	DFT-15	Bottom Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	0.07	0.130	0.181
	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Bottom Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	-0.02	0.140	0.195
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Front	10mm	3	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	-0.02	0.029	0.040
	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Front	10mm	3	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	-0.12	0.015	0.021
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Back	10mm	3	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	-0.01	0.011	0.015
	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Back	10mm	3	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	-0.1	0.009	0.013
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	0	0.001	0.001
	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Left Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	0	0.001	0.001
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	0	0.001	0.001
	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Right Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	0	0.001	0.001
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Top Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	-0.09	0.014	0.019
	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Top Side	10mm	3	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	0.07	0.016	0.022
	FR1 n77_Ant 9	100M	BPSK	1	137	DFT-30	Front	10mm	3	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	0.01	0.242	0.258
	FR1 n77_Ant 9	100M	BPSK	135	69	DFT-30	Front	10mm	3	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	-0.08	0.256	0.276
	FR1 n77_Ant 9	100M	BPSK	1	137	DFT-30	Back	10mm	3	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	-0.1	0.234	0.249
	FR1 n77_Ant 9	100M	BPSK	135	69	DFT-30	Back	10mm	3	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	0.01	0.242	0.261
	FR1 n77_Ant 9	100M	BPSK	1	137	DFT-30	Left Side	10mm	3	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	0.05	0.503	0.535
53	FR1 n77_Ant 9	100M	BPSK	135	69	DFT-30	Left Side	10mm	3	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	-0.09	0.550	0.592
	FR1 n77_Ant 11	100M	BPSK	1	137	DFT-30	Front	10mm	3	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	-0.01	0.037	0.039
	FR1 n77_Ant 11	100M	BPSK	135	69	DFT-30	Front	10mm	3	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	-0.05	0.038	0.041
	FR1 n77_Ant 11	100M	BPSK	1	137	DFT-30	Back	10mm	3	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	-0.07	0.550	0.585
	FR1 n77_Ant 11	100M	BPSK	135	69	DFT-30	Back	10mm	3	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	-0.11	0.540	0.581
	FR1 n77_Ant 11	100M	BPSK	1	137	DFT-30	Left Side	10mm	3	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	-0.07	0.062	0.066
	FR1 n77_Ant 11	100M	BPSK	135	69	DFT-30	Left Side	10mm	3	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	-0.05	0.047	0.051
	FR1 n77_Ant 11	100M	BPSK	1	137	DFT-30	Bottom Side	10mm	3	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	-0.13	0.061	0.065
	FR1 n77_Ant 11	100M	BPSK	135	69	DFT-30	Bottom Side	10mm	3	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	-0.05	0.074	0.080



<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Ant 4	3	Normal	-	1	2412	21.40	22.00	1.148	98.2	1.018	0.15	0.135	0.158
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 4	3	Normal	-	1	2412	21.40	22.00	1.148	98.2	1.018	0.12	0.189	0.221
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 4	3	Normal	-	1	2412	21.40	22.00	1.148	98.2	1.018	0.18	0.131	0.153
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Ant 4	3	Normal	-	1	2412	21.40	22.00	1.148	98.2	1.018	0.1	0.184	0.215
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Ant 5	3	Normal	-	1	2412	20.60	21.00	1.096	98.2	1.018	-0.12	0.286	0.319
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 5	3	Normal	-	1	2412	20.60	21.00	1.096	98.2	1.018	-0.15	0.256	0.286
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 5	3	Normal	-	1	2412	20.60	21.00	1.096	98.2	1.018	-0.15	0.355	0.396
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 5	3	Normal	-	6	2437	19.20	19.50	1.072	98.2	1.018	0.1	0.212	0.231
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 5	3	Normal	-	11	2462	19.70	20.00	1.072	98.2	1.018	0.13	0.235	0.256
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Ant 4+5	3	Normal	-	1	2412	24.18	24.50	1.076	98.22	1.018	0.15	0.252	0.276
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 4+5	3	Normal	-	1	2412	24.18	24.50	1.076	98.22	1.018	0.02	0.210	0.230
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 4+5	3	Normal	-	1	2412	24.18	24.50	1.076	98.22	1.018	-0.13	0.344	0.377
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Ant 4+5	3	Normal	-	1	2412	24.18	24.50	1.076	98.22	1.018	-0.15	0.332	0.364
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Ant 6	5	Camera	-	11	2462	19.30	19.50	1.047	98.20	1.018	0.16	0.114	0.122
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	5	Camera	-	11	2462	19.30	19.50	1.047	98.20	1.018	-0.04	0.174	0.185
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 6	5	Camera	-	11	2462	19.30	19.50	1.047	98.20	1.018	0.09	0.209	0.223
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Ant 6	5	Camera	-	11	2462	19.30	19.50	1.047	98.20	1.018	-0.11	0.001	0.001
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Ant 5	5	Camera	-	11	2462	20.80	21.00	1.047	98.20	1.018	-0.11	0.238	0.254
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 5	5	Camera	-	11	2462	20.80	21.00	1.047	98.20	1.018	-0.06	0.233	0.248
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 5	5	Camera	-	11	2462	20.80	21.00	1.047	98.20	1.018	0.09	0.336	0.358
54	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 5	5	Camera	-	1	2412	20.70	21.00	1.072	98.20	1.018	0.03	0.363	0.396
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 5	5	Camera	V	1	2412	20.70	21.00	1.072	98.20	1.018	0.05	0.126	0.137
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 5	5	Camera	-	6	2437	20.20	20.50	1.072	98.20	1.018	-0.04	0.323	0.352
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Ant 6+5	5	Camera	-	1	2412	22.75	23.00	1.060	97.94	1.021	0.11	0.157	0.170
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+5	5	Camera	-	1	2412	22.75	23.00	1.060	97.94	1.021	-0.19	0.238	0.258
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 6+5	5	Camera	-	1	2412	22.75	23.00	1.060	97.94	1.021	0.06	0.227	0.246
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6+5	5	Camera	-	1	2412	22.75	23.00	1.060	97.94	1.021	0.05	0.316	0.342
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6+5	5	Camera	-	6	2437	22.67	23.00	1.080	97.94	1.021	0.15	0.230	0.254
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6+5	5	Camera	-	11	2462	23.28	23.50	1.051	97.94	1.021	0.06	0.210	0.225
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Ant 6+5	5	Camera	-	1	2412	22.75	23.00	1.060	97.94	1.021	-0.04	0.108	0.117



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	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)
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4	3	Normal	-	46	5230	19.40	19.50	1.023	99.70	1.003	0.14	0.112	0.115
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4	3	Normal	-	46	5230	19.40	19.50	1.023	99.70	1.003	-0.08	0.133	0.137
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 4	3	Normal	-	46	5230	19.40	19.50	1.023	99.70	1.003	0.08	0.066	0.068
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4	3	Normal	-	46	5230	19.40	19.50	1.023	99.70	1.003	-0.17	0.042	0.043
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	3	Normal	-	46	5230	18.80	19.00	1.047	99.70	1.003	0.04	0.140	0.147
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	3	Normal	-	46	5230	18.80	19.00	1.047	99.70	1.003	-0.06	0.333	0.350
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	3	Normal	-	38	5190	18.00	18.50	1.122	99.70	1.003	-0.07	0.229	0.258
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5	3	Normal	-	46	5230	18.80	19.00	1.047	99.70	1.003	0.11	0.261	0.274
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+5	3	Normal	-	46	5230	22.17	22.50	1.080	100.00	1.000	0.05	0.125	0.135
55	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+5	3	Normal	-	46	5230	22.17	22.50	1.080	100.00	1.000	-0.03	0.370	0.399
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+5	3	Normal	V	46	5230	22.17	22.50	1.080	100.00	1.000	-0.05	0.252	0.272
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+5	3	Normal	-	38	5190	21.47	22.00	1.129	100.00	1.000	-0.06	0.311	0.351
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 4+5	3	Normal	-	46	5230	22.17	22.50	1.080	100.00	1.000	0.07	0.305	0.329
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4+5	3	Normal	-	46	5230	22.17	22.50	1.080	100.00	1.000	-0.15	0.068	0.073
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	5	Camera	-	42	5210	12.70	13.00	1.072	99.70	1.003	0.08	0.079	0.085
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	5	Camera	-	42	5210	12.70	13.00	1.072	99.70	1.003	-0.14	0.336	0.361
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6	5	Camera	-	42	5210	12.70	13.00	1.072	99.70	1.003	-0.02	0.068	0.073
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6	5	Camera	-	42	5210	12.70	13.00	1.072	99.70	1.003	-0.04	0.008	0.009
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6	5	Camera	-	42	5210	12.70	13.00	1.072	99.70	1.003	-0.17	0.064	0.069
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	5	Camera	-	46	5230	17.20	17.50	1.072	99.70	1.003	0.08	0.156	0.168
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	5	Camera	-	46	5230	17.20	17.50	1.072	99.70	1.003	-0.06	0.134	0.144
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Ant 5	5	Camera	-	46	5230	17.20	17.50	1.072	99.70	1.003	0.17	0.047	0.051
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5	5	Camera	-	46	5230	17.20	17.50	1.072	99.70	1.003	0.19	0.164	0.176
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	10mm	Ant 5	5	Camera	-	46	5230	17.20	17.50	1.072	99.70	1.003	0.12	0.042	0.045
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+5	5	Camera	-	42	5210	14.61	15.00	1.094	100	1.000	0.04	0.045	0.049
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+5	5	Camera	-	42	5210	14.61	15.00	1.094	100	1.000	-0.02	0.292	0.319
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+5	5	Camera	-	42	5210	14.61	15.00	1.094	100	1.000	-0.01	0.052	0.057
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+5	5	Camera	-	42	5210	14.61	15.00	1.094	100	1.000	0.13	0.074	0.081
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+5	5	Camera	-	42	5210	14.61	15.00	1.094	100	1.000	-0.06	0.082	0.090



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	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)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4	3	Normal	-	155	5775	19.70	20.00	1.072	99.70	1.003	-0.01	0.085	0.091
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4	3	Normal	-	155	5775	19.70	20.00	1.072	99.70	1.003	-0.02	0.161	0.173
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 4	3	Normal	-	155	5775	19.70	20.00	1.072	99.70	1.003	0	0.075	0.081
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4	3	Normal	-	155	5775	19.70	20.00	1.072	99.70	1.003	0.05	0.052	0.056
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	3	Normal	-	155	5775	19.40	20.00	1.148	99.70	1.003	-0.09	0.186	0.214
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	3	Normal	-	155	5775	19.40	20.00	1.148	99.70	1.003	0.02	0.157	0.181
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 5	3	Normal	-	155	5775	19.40	20.00	1.148	99.70	1.003	-0.02	0.228	0.263
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+5	3	Normal	-	155	5775	22.61	23.00	1.093	100.00	1.000	-0.09	0.184	0.201
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+5	3	Normal	-	155	5775	22.61	23.00	1.093	100.00	1.000	-0.05	0.206	0.225
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 4+5	3	Normal	-	155	5775	22.61	23.00	1.093	100.00	1.000	-0.01	0.205	0.224
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+5	3	Normal	-	155	5775	22.61	23.00	1.093	100.00	1.000	0.06	0.057	0.062
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6	5	Camera	-	155	5775	14.90	15.00	1.023	99.70	1.003	-0.07	0.045	0.046
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6	5	Camera	-	155	5775	14.90	15.00	1.023	99.70	1.003	-0.03	0.344	0.353
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6	5	Camera	-	155	5775	14.90	15.00	1.023	99.70	1.003	-0.1	0.088	0.090
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6	5	Camera	-	155	5775	14.90	15.00	1.023	99.70	1.003	-0.06	0.047	0.048
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6	5	Camera	-	155	5775	14.90	15.00	1.023	99.70	1.003	-0.03	0.069	0.071
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	5	Camera	-	155	5775	19.00	20.00	1.259	99.70	1.003	-0.06	0.181	0.229
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	5	Camera	-	155	5775	19.00	20.00	1.259	99.70	1.003	0.01	0.151	0.191
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 5	5	Camera	-	155	5775	19.00	20.00	1.259	99.70	1.003	0	0.064	0.081
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 5	5	Camera	-	155	5775	19.00	20.00	1.259	99.70	1.003	-0.05	0.215	0.271
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	10mm	Ant 5	5	Camera	-	155	5775	19.00	20.00	1.259	99.70	1.003	0.09	0.044	0.056
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+5	5	Camera	-	155	5775	18.12	18.50	1.091	100	1.000	0.03	0.075	0.082
56	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+5	5	Camera	-	155	5775	18.12	18.50	1.091	100	1.000	-0.01	0.362	0.395
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+5	5	Camera	-	155	5775	18.12	18.50	1.091	100	1.000	-0.04	0.066	0.072
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+5	5	Camera	-	155	5775	18.12	18.50	1.091	100	1.000	0.11	0.061	0.067
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+5	5	Camera	-	155	5775	18.12	18.50	1.091	100	1.000	0.17	0.069	0.075

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	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 4	3	Normal	-	39	2441	16.99	17.00	1.002	76.83	1.084	-0.09	0.076	0.083
57	Bluetooth	1Mbps	Back	10mm	Ant 4	3	Normal	-	39	2441	16.99	17.00	1.002	76.83	1.084	-0.19	0.088	0.096
	Bluetooth	1Mbps	Back	10mm	Ant 4	3	Normal	V	39	2441	16.99	17.00	1.002	76.83	1.084	0.03	0.038	0.041
	Bluetooth	1Mbps	Right Side	10mm	Ant 4	3	Normal	-	39	2441	16.99	17.00	1.002	76.83	1.084	-0.12	0.075	0.081
	Bluetooth	1Mbps	Top Side	10mm	Ant 4	3	Normal	-	39	2441	16.99	17.00	1.002	76.83	1.084	-0.07	0.077	0.084
	Bluetooth	1Mbps	Front	10mm	Ant 5	3/5	Normal&Camera	-	39	2441	15.10	15.50	1.096	76.83	1.084	0.01	0.051	0.061
	Bluetooth	1Mbps	Back	10mm	Ant 5	3/5	Normal&Camera	-	39	2441	15.10	15.50	1.096	76.83	1.084	-0.04	0.046	0.055
	Bluetooth	1Mbps	Right Side	10mm	Ant 5	3/5	Normal&Camera	-	39	2441	15.10	15.50	1.096	76.83	1.084	-0.05	0.076	0.090
	Bluetooth	1Mbps	Right Side	10mm	Ant 5	3/5	Normal&Camera	-	0	2402	13.06	13.50	1.107	76.83	1.084	0.15	0.062	0.074
	Bluetooth	1Mbps	Right Side	10mm	Ant 5	3/5	Normal&Camera	-	78	2480	13.42	13.50	1.019	76.83	1.084	0.03	0.001	0.001
	Bluetooth	1Mbps	Front	10mm	Ant 6	5	Camera	-	78	2480	15.26	15.50	1.057	76.83	1.084	-0.01	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 6	5	Camera	-	78	2480	15.26	15.50	1.057	76.83	1.084	0.05	0.051	0.058
	Bluetooth	1Mbps	Left Side	10mm	Ant 6	5	Camera	-	78	2480	15.26	15.50	1.057	76.83	1.084	-0.02	0.066	0.076
	Bluetooth	1Mbps	Top Side	10mm	Ant 6	5	Camera	-	78	2480	15.26	15.50	1.057	76.83	1.084	0.14	0.001	0.001



12.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 ANT0	GPRS (2 Tx slots)	Front	15mm	4	Portrait	-	189	836.4	32.96	34.50	1.426	0.02	0.340	0.485
	GSM850 ANT0	GPRS (2 Tx slots)	Back	15mm	4	Portrait	-	189	836.4	32.96	34.50	1.426	-0.08	0.418	0.596
	GSM850 ANT0	GPRS (2 Tx slots)	Back	15mm	4	Portrait	-	128	824.2	32.88	34.50	1.452	-0.03	0.331	0.481
58	GSM850 ANT0	GPRS (2 Tx slots)	Back	15mm	4	Portrait	-	251	848.8	32.62	34.50	1.542	-0.07	0.515	0.794
	GSM850 ANT0	GPRS (2 Tx slots)	Back	15mm	4	Portrait	V	251	848.8	32.62	34.50	1.542	-0.07	0.160	0.247
	GSM850 ANT0	GPRS (2 Tx slots)	Front	15mm	5	Portrait	-	189	836.4	30.93	31.50	1.140	0.02	0.144	0.164
	GSM850 ANT0	GPRS (2 Tx slots)	Back	15mm	5	Portrait	-	189	836.4	30.93	31.50	1.140	-0.08	0.199	0.227
	GSM850 ANT0	GPRS (2 Tx slots)	Back	15mm	5	Portrait	-	128	824.2	30.46	31.50	1.271	-0.03	0.163	0.207
	GSM850 ANT0	GPRS (2 Tx slots)	Back	15mm	5	Portrait	-	251	848.8	30.67	31.50	1.211	0.11	0.243	0.294
	GSM850 ANT0	GPRS (2 Tx slots)	Front	15mm	4/5	Landscape	-	189	836.4	30.93	31.50	1.140	0.02	0.144	0.164
	GSM850 ANT0	GPRS (2 Tx slots)	Back	15mm	4/5	Landscape	-	189	836.4	30.93	31.50	1.140	-0.08	0.199	0.227
	GSM850 ANT0	GPRS (2 Tx slots)	Back	15mm	4/5	Landscape	-	128	824.2	30.46	31.50	1.271	-0.03	0.163	0.207
	GSM850 ANT0	GPRS (2 Tx slots)	Back	15mm	4/5	Landscape	-	251	848.8	30.67	31.50	1.211	0.11	0.243	0.294
	GSM850 ANT2	GPRS (2 Tx slots)	Front	15mm	4/5	Portrait&Landscape	-	189	836.4	32.96	34.50	1.426	-0.01	0.150	0.214
	GSM850 ANT2	GPRS (2 Tx slots)	Front	15mm	4/5	Portrait&Landscape	-	128	824.2	32.88	34.50	1.452	-0.18	0.109	0.158
	GSM850 ANT2	GPRS (2 Tx slots)	Front	15mm	4/5	Portrait&Landscape	-	251	848.8	32.62	34.50	1.542	0.07	0.180	0.278
	GSM850 ANT2	GPRS (2 Tx slots)	Front	15mm	4/5	Portrait&Landscape	V	251	848.8	32.62	34.50	1.542	0.07	0.179	0.276
	GSM850 ANT2	GPRS (2 Tx slots)	Back	15mm	4/5	Portrait&Landscape	-	189	836.4	32.96	34.50	1.426	0.17	0.140	0.200
	GSM1900 ANT1	GPRS (2 Tx slots)	Front	15mm	4/5	Portrait	-	661	1880	30.24	31.50	1.337	-0.04	0.140	0.187
	GSM1900 ANT1	GPRS (2 Tx slots)	Back	15mm	4/5	Portrait	-	661	1880	30.24	31.50	1.337	0.05	0.183	0.245
59	GSM1900 ANT1	GPRS (2 Tx slots)	Back	15mm	4/5	Portrait	-	512	1850.2	29.75	31.50	1.496	-0.12	0.205	0.307
	GSM1900 ANT1	GPRS (2 Tx slots)	Back	15mm	4/5	Portrait	-	810	1909.8	30.12	31.50	1.374	-0.15	0.209	0.287
	GSM1900 ANT8	GPRS (2 Tx slots)	Front	15mm	4/5	Landscape	-	661	1880	30.24	31.50	1.337	0.13	0.089	0.119
	GSM1900 ANT8	GPRS (2 Tx slots)	Front	15mm	4/5	Landscape	-	512	1850.2	29.75	31.50	1.496	-0.12	0.138	0.206
	GSM1900 ANT8	GPRS (2 Tx slots)	Front	15mm	4/5	Landscape	-	810	1909.8	30.12	31.50	1.374	-0.01	0.132	0.181
	GSM1900 ANT8	GPRS (2 Tx slots)	Back	15mm	4/5	Landscape	-	661	1880	30.24	31.50	1.337	-0.03	0.079	0.106



<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 ANT1	RMC 12.2Kbps	Front	15mm	4	Portrait	-	9538	1907.6	24.02	25.50	1.406	-0.14	0.232	0.326
	WCDMA II ANT1	RMC 12.2Kbps	Back	15mm	4	Portrait	-	9538	1907.6	24.02	25.50	1.406	-0.07	0.316	0.444
	WCDMA II ANT1	RMC 12.2Kbps	Back	15mm	4	Portrait	-	9262	1852.4	23.88	25.50	1.452	-0.03	0.307	0.446
60	WCDMA II ANT1	RMC 12.2Kbps	Back	15mm	4	Portrait	-	9400	1880	23.82	25.50	1.472	0.02	0.312	0.459
	WCDMA II ANT1	RMC 12.2Kbps	Back	15mm	4	Portrait	V	9400	1880	23.82	25.50	1.472	0.02	0.103	0.152
	WCDMA II ANT1	RMC 12.2Kbps	Front	15mm	5	Portrait	-	9538	1907.6	24.02	25.00	1.253	-0.14	0.232	0.291
	WCDMA II ANT1	RMC 12.2Kbps	Back	15mm	5	Portrait	-	9538	1907.6	24.02	25.00	1.253	-0.07	0.316	0.396
	WCDMA II ANT1	RMC 12.2Kbps	Back	15mm	5	Portrait	-	9262	1852.4	23.88	25.00	1.294	-0.03	0.307	0.397
	WCDMA II ANT1	RMC 12.2Kbps	Back	15mm	5	Portrait	-	9400	1880	23.82	25.00	1.312	0.02	0.312	0.409
	WCDMA II ANT8	RMC 12.2Kbps	Front	15mm	4/5	Landscape	-	9538	1907.6	24.02	25.00	1.253	-0.14	0.200	0.251
	WCDMA II ANT8	RMC 12.2Kbps	Front	15mm	4/5	Landscape	-	9262	1852.4	23.88	25.00	1.294	-0.01	0.198	0.256
	WCDMA II ANT8	RMC 12.2Kbps	Front	15mm	4/5	Landscape	-	9400	1880	23.82	25.00	1.312	-0.04	0.194	0.255
	WCDMA II ANT8	RMC 12.2Kbps	Back	15mm	4/5	Landscape	-	9538	1907.6	24.02	25.00	1.253	0.07	0.182	0.228
	WCDMA IV ANT1	RMC 12.2Kbps	Front	15mm	4/5	Portrait	-	1413	1732.6	24.10	25.00	1.230	-0.04	0.269	0.331
61	WCDMA IV ANT1	RMC 12.2Kbps	Back	15mm	4/5	Portrait	-	1413	1732.6	24.10	25.00	1.230	0.04	0.331	0.407
	WCDMA IV ANT1	RMC 12.2Kbps	Back	15mm	4/5	Portrait	-	1312	1712.4	23.99	25.00	1.262	-0.01	0.312	0.394
	WCDMA IV ANT1	RMC 12.2Kbps	Back	15mm	4/5	Portrait	-	1513	1752.6	24.05	25.00	1.245	-0.06	0.299	0.372
	WCDMA IV ANT8	RMC 12.2Kbps	Front	15mm	4/5	Landscape	-	1413	1732.6	24.10	25.50	1.380	0.02	0.158	0.218
	WCDMA IV ANT8	RMC 12.2Kbps	Front	15mm	4/5	Landscape	-	1312	1712.4	23.99	25.50	1.416	-0.17	0.133	0.188
	WCDMA IV ANT8	RMC 12.2Kbps	Front	15mm	4/5	Landscape	-	1513	1752.6	24.05	25.50	1.396	-0.16	0.127	0.177
	WCDMA IV ANT8	RMC 12.2Kbps	Back	15mm	4/5	Landscape	-	1413	1732.6	24.10	25.50	1.380	0.1	0.132	0.182
	WCDMA V ANT0	RMC 12.2Kbps	Front	15mm	4/5	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	-0.04	0.190	0.227
	WCDMA V ANT0	RMC 12.2Kbps	Back	15mm	4/5	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	-0.12	0.231	0.276
	WCDMA V ANT0	RMC 12.2Kbps	Back	15mm	4/5	Portrait&Landscape	-	4132	826.4	23.89	25.50	1.449	0.04	0.138	0.200
62	WCDMA V ANT0	RMC 12.2Kbps	Back	15mm	4/5	Portrait&Landscape	-	4233	846.6	24.32	25.50	1.312	0.11	0.258	0.339
	WCDMA V ANT2	RMC 12.2Kbps	Front	15mm	4/5	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	-0.18	0.099	0.118
	WCDMA V ANT2	RMC 12.2Kbps	Front	15mm	4/5	Portrait&Landscape	-	4132	826.4	23.89	25.50	1.449	0.15	0.070	0.101
	WCDMA V ANT2	RMC 12.2Kbps	Front	15mm	4/5	Portrait&Landscape	-	4233	846.6	24.32	25.50	1.312	-0.06	0.098	0.129
	WCDMA V ANT2	RMC 12.2Kbps	Back	15mm	4/5	Portrait&Landscape	-	4182	836.4	24.73	25.50	1.194	-0.05	0.092	0.110



<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 7 ANT1	20M	QPSK	1	0	Front	15mm	4/5	Portrait	-	21100	2535	23.40	23.50	1.023	-0.13	0.188	0.192
	LTE Band 7 ANT1	20M	QPSK	50	0	Front	15mm	4/5	Portrait	-	21350	2560	22.21	22.50	1.069	0.18	0.152	0.162
	LTE Band 7 ANT1	20M	QPSK	1	0	Back	15mm	4/5	Portrait	-	21100	2535	23.40	23.50	1.023	0.1	0.248	0.254
	LTE Band 7 ANT1	20M	QPSK	1	0	Back	15mm	4/5	Portrait	-	20850	2510	22.85	23.50	1.161	-0.07	0.188	0.219
	LTE Band 7 ANT1	20M	QPSK	1	0	Back	15mm	4/5	Portrait	-	21350	2560	23.00	23.50	1.122	-0.11	0.196	0.220
	LTE Band 7 ANT1	20M	QPSK	50	0	Back	15mm	4/5	Portrait	-	21350	2560	22.21	22.50	1.069	0.04	0.194	0.208
	LTE Band 7C ANT1	20M	QPSK	1	0	Back	15mm	4/5	Portrait	-	21100	2535	23.50	23.50	1.000	0.14	0.229	0.229
	LTE Band 7 ANT8	20M	QPSK	1	0	Front	15mm	4/5	Landscape	-	21100	2535	24.55	25.50	1.245	0.02	0.246	0.306
	LTE Band 7 ANT8	20M	QPSK	50	0	Front	15mm	4/5	Landscape	-	21100	2535	23.69	24.50	1.205	0.03	0.186	0.224
63	LTE Band 7 ANT8	20M	QPSK	1	0	Back	15mm	4/5	Landscape	-	21100	2535	24.55	25.50	1.245	0.07	0.263	0.327
	LTE Band 7 ANT8	20M	QPSK	1	99	Back	15mm	4/5	Landscape	-	20850	2510	24.54	25.50	1.247	-0.03	0.241	0.301
	LTE Band 7 ANT8	20M	QPSK	1	49	Back	15mm	4/5	Landscape	-	21350	2560	24.03	25.50	1.403	-0.14	0.161	0.226
	LTE Band 7 ANT8	20M	QPSK	50	0	Back	15mm	4/5	Landscape	-	21100	2535	23.69	24.50	1.205	-0.15	0.197	0.237
	LTE Band 7C ANT8	20M	QPSK	1	0	Back	15mm	4/5	Landscape	-	21100	2535	24.38	25.50	1.294	-0.06	0.249	0.322
	LTE Band 12 ANT0	10M	QPSK	1	0	Front	15mm	4/5	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	-0.04	0.120	0.130
	LTE Band 12 ANT0	10M	QPSK	25	0	Front	15mm	4/5	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	-0.14	0.100	0.106
64	LTE Band 12 ANT0	10M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	0.08	0.165	0.179
	LTE Band 12 ANT0	10M	QPSK	25	0	Back	15mm	4/5	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0.13	0.133	0.141
	LTE Band 12 ANT2	10M	QPSK	1	0	Front	15mm	4/5	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	0.08	0.061	0.066
	LTE Band 12 ANT2	10M	QPSK	25	0	Front	15mm	4/5	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0.08	0.054	0.057
	LTE Band 12 ANT2	10M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	23095	707.5	25.15	25.50	1.084	0.16	0.060	0.065
	LTE Band 12 ANT2	10M	QPSK	25	0	Back	15mm	4/5	Portrait&Landscape	-	23095	707.5	24.25	24.50	1.059	0.01	0.049	0.052
	LTE Band 13 ANT0	10M	QPSK	1	49	Front	15mm	4/5	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	0.02	0.170	0.227
	LTE Band 13 ANT0	10M	QPSK	25	25	Front	15mm	4/5	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	0.18	0.132	0.169
65	LTE Band 13 ANT0	10M	QPSK	1	49	Back	15mm	4/5	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	-0.18	0.219	0.292
	LTE Band 13 ANT0	10M	QPSK	25	25	Back	15mm	4/5	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	-0.17	0.183	0.234
	LTE Band 13 ANT2	10M	QPSK	1	49	Front	15mm	4/5	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	0.09	0.191	0.255
	LTE Band 13 ANT2	10M	QPSK	25	25	Front	15mm	4/5	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	0.06	0.160	0.205
	LTE Band 13 ANT2	10M	QPSK	1	49	Back	15mm	4/5	Portrait&Landscape	-	23230	782	24.25	25.50	1.334	0.13	0.162	0.216
	LTE Band 13 ANT2	10M	QPSK	25	25	Back	15mm	4/5	Portrait&Landscape	-	23230	782	23.43	24.50	1.279	0.03	0.139	0.178
	LTE Band 25 ANT1-	20M	QPSK	1	0	Front	15mm	4	Portrait	-	26140	1860	24.38	25.50	1.294	-0.07	0.245	0.317
	LTE Band 25 ANT1-	20M	QPSK	50	24	Front	15mm	4	Portrait	-	26340	1880	23.48	24.50	1.265	-0.06	0.170	0.215
	LTE Band 25 ANT1-	20M	QPSK	1	0	Back	15mm	4	Portrait	-	26140	1860	24.38	25.50	1.294	0.08	0.328	0.424
	LTE Band 25 ANT1-	20M	QPSK	1	0	Back	15mm	4	Portrait	-	26340	1880	24.16	25.50	1.361	-0.1	0.324	0.441
66	LTE Band 25 ANT1-	20M	QPSK	1	0	Back	15mm	4	Portrait	-	26590	1905	23.89	25.50	1.449	0.02	0.309	0.448
	LTE Band 25 ANT1-	20M	QPSK	50	24	Back	15mm	4	Portrait	-	26340	1880	23.48	24.50	1.265	-0.07	0.241	0.305
	LTE Band 25 ANT1	20M	QPSK	1	0	Front	15mm	5	Portrait	-	26140	1860	24.38	25.00	1.153	-0.07	0.245	0.283
	LTE Band 25 ANT1	20M	QPSK	50	24	Front	15mm	5	Portrait	-	26340	1880	23.48	24.50	1.265	-0.06	0.170	0.215
	LTE Band 25 ANT1	20M	QPSK	1	0	Back	15mm	5	Portrait	-	26140	1860	24.38	25.00	1.153	0.08	0.328	0.378
	LTE Band 25 ANT1	20M	QPSK	1	0	Back	15mm	5	Portrait	-	26340	1880	24.16	25.00	1.213	-0.1	0.324	0.393
	LTE Band 25 ANT1	20M	QPSK	1	0	Back	15mm	5	Portrait	-	26590	1905	23.89	25.00	1.291	0.02	0.309	0.399
	LTE Band 25 ANT1	20M	QPSK	50	24	Back	15mm	5	Portrait	-	26340	1880	23.48	24.50	1.265	-0.07	0.241	0.305
	LTE Band 25 ANT8	20M	QPSK	1	0	Front	15mm	4/5	Landscape	-	26140	1860	24.38	25.50	1.294	-0.11	0.186	0.241
	LTE Band 25 ANT8	20M	QPSK	1	0	Front	15mm	4/5	Landscape	-	26340	1880	24.16	25.50	1.361	0.01	0.208	0.283
	LTE Band 25 ANT8	20M	QPSK	1	0	Front	15mm	4/5	Landscape	-	26590	1905	23.89	25.50	1.449	0.05	0.211	0.306
	LTE Band 25 ANT8	20M	QPSK	50	24	Front	15mm	4/5	Landscape	-	26340	1880	23.48	24.50	1.265	-0.09	0.160	0.202
	LTE Band 25 ANT8	20M	QPSK	1	0	Back	15mm	4/5	Landscape	-	26140	1860	24.38	25.50	1.294	0.04	0.181	0.234
	LTE Band 25 ANT8	20M	QPSK	50	24	Back	15mm	4/5	Landscape	-	26340	1880	23.48	24.50	1.265	-0.18	0.152	0.192



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 26 ANT0	15M	QPSK	1	37	Front	15mm	4	Portrait	-	26865	831.5	24.50	25.50	1.259	-0.14	0.308	0.388
	LTE Band 26 ANT0	15M	QPSK	36	20	Front	15mm	4	Portrait	-	26865	831.5	23.63	24.50	1.222	-0.06	0.234	0.285
67	LTE Band 26 ANT0	15M	QPSK	1	37	Back	15mm	4	Portrait	-	26865	831.5	24.50	25.50	1.259	-0.04	0.370	0.466
	LTE Band 26 ANT0	15M	QPSK	36	20	Back	15mm	4	Portrait	-	26865	831.5	23.63	24.50	1.222	-0.06	0.277	0.339
	LTE Band 5B ANT0	10M	QPSK	1	0	Back	15mm	4	Portrait	-	20450	829	24.28	25.50	1.324	0.11	0.241	0.319
	LTE Band 26 ANT0	15M	QPSK	1	37	Front	15mm	5	Portrait	-	26865	831.5	24.50	25.00	1.122	-0.14	0.308	0.345
	LTE Band 26 ANT0	15M	QPSK	36	20	Front	15mm	5	Portrait	-	26865	831.5	23.63	24.50	1.222	-0.06	0.234	0.285
	LTE Band 26 ANT0	15M	QPSK	1	37	Back	15mm	5	Portrait	-	26865	831.5	24.50	25.00	1.122	-0.04	0.370	0.415
	LTE Band 26 ANT0	15M	QPSK	36	20	Back	15mm	5	Portrait	-	26865	831.5	23.63	24.50	1.222	-0.06	0.277	0.338
	LTE Band 5B ANT0	10M	QPSK	1	0	Back	15mm	5	Portrait	-	20450	829	24.28	25.00	1.180	0.11	0.241	0.284
	LTE Band 26 ANT0	15M	QPSK	1	37	Front	15mm	4/5	Portrait&Landscape	-	26865	831.5	24.50	25.00	1.122	-0.14	0.308	0.345
	LTE Band 26 ANT0	15M	QPSK	36	20	Front	15mm	4/5	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	-0.06	0.234	0.285
	LTE Band 26 ANT0	15M	QPSK	1	37	Back	15mm	4/5	Portrait&Landscape	-	26865	831.5	24.50	25.00	1.122	-0.04	0.370	0.415
	LTE Band 26 ANT0	15M	QPSK	36	20	Back	15mm	4/5	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	-0.06	0.277	0.338
	LTE Band 5B ANT0	10M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	20450	829	24.28	25.00	1.180	0.11	0.241	0.284
	LTE Band 26 ANT2	15M	QPSK	1	37	Front	15mm	4/5	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	-0.15	0.133	0.167
	LTE Band 26 ANT2	15M	QPSK	36	20	Front	15mm	4/5	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	0.14	0.090	0.110
	LTE Band 26 ANT2	15M	QPSK	1	37	Back	15mm	4/5	Portrait&Landscape	-	26865	831.5	24.50	25.50	1.259	0.15	0.129	0.162
	LTE Band 26 ANT2	15M	QPSK	36	20	Back	15mm	4/5	Portrait&Landscape	-	26865	831.5	23.63	24.50	1.222	-0.03	0.097	0.119
	LTE Band 5B ANT2	10M	QPSK	1	0	Front	15mm	4/5	Portrait&Landscape	-	20450	829	24.28	25.50	1.324	0.02	0.110	0.146
68	LTE Band 30 ANT1	10M	QPSK	1	0	Front	15mm	4/5	Portrait	-	27710	2310	23.98	25.00	1.265	0.05	0.290	0.367
	LTE Band 30 ANT1	10M	QPSK	25	25	Front	15mm	4/5	Portrait	-	27710	2310	23.02	24.00	1.253	-0.18	0.236	0.296
	LTE Band 30 ANT1	10M	QPSK	1	0	Back	15mm	4/5	Portrait	-	27710	2310	23.98	25.00	1.265	-0.04	0.272	0.344
	LTE Band 30 ANT1	10M	QPSK	25	25	Back	15mm	4/5	Portrait	-	27710	2310	23.02	24.00	1.253	-0.11	0.221	0.277
	LTE Band 30 ANT8	10M	QPSK	1	0	Front	15mm	4/5	Landscape	-	27710	2310	23.98	25.50	1.419	-0.07	0.231	0.328
	LTE Band 30 ANT8	10M	QPSK	25	25	Front	15mm	4/5	Landscape	-	27710	2310	23.02	24.50	1.406	0.1	0.187	0.263
	LTE Band 30 ANT8	10M	QPSK	1	0	Back	15mm	4/5	Landscape	-	27710	2310	23.98	25.50	1.419	0.08	0.232	0.329
	LTE Band 30 ANT8	10M	QPSK	1	0	Back	15mm	4/5	Landscape	V	27710	2310	23.98	25.50	1.419	0.08	0.045	0.064
	LTE Band 30 ANT8	10M	QPSK	25	25	Back	15mm	4/5	Landscape	-	27710	2310	23.02	24.50	1.406	0.04	0.166	0.233



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 66 ANT1	20M	QPSK	1	0	Front	15mm	4/5	Portrait	-	132322	1745	23.85	25.50	1.462	0.13	0.123	0.180
	LTE Band 66 ANT1	20M	QPSK	50	0	Front	15mm	4/5	Portrait	-	132322	1745	22.85	24.50	1.462	-0.08	0.100	0.146
	LTE Band 66 ANT1	20M	QPSK	1	0	Back	15mm	4/5	Portrait	-	132322	1745	23.85	25.50	1.462	-0.11	0.171	0.250
	LTE Band 66 ANT1	20M	QPSK	1	0	Back	15mm	4/5	Portrait	-	132072	1720	23.61	25.50	1.545	-0.11	0.081	0.125
69	LTE Band 66 ANT1	20M	QPSK	1	0	Back	15mm	4/5	Portrait	-	132572	1770	23.67	25.50	1.524	-0.09	0.185	0.282
	LTE Band 66 ANT1	20M	QPSK	50	0	Back	15mm	4/5	Portrait	-	132322	1745	22.85	24.50	1.462	0.18	0.141	0.206
	LTE Band 66 ANT1	20M	QPSK	1	0	Front	15mm	4/5	Landscape	-	132322	1745	23.18	24.50	1.355	0.09	0.064	0.087
	LTE Band 66 ANT1	20M	QPSK	50	0	Front	15mm	4/5	Landscape	-	132322	1745	22.25	23.50	1.334	0.16	0.052	0.069
	LTE Band 66 ANT1	20M	QPSK	1	0	Back	15mm	4/5	Landscape	-	132322	1745	23.18	24.50	1.355	-0.18	0.089	0.121
	LTE Band 66 ANT1	20M	QPSK	1	0	Back	15mm	4/5	Landscape	-	132072	1720	23.14	24.50	1.368	0.16	0.081	0.111
	LTE Band 66 ANT1	20M	QPSK	1	0	Back	15mm	4/5	Landscape	-	132572	1770	23.12	24.50	1.374	0.03	0.112	0.154
	LTE Band 66 ANT1	20M	QPSK	50	0	Back	15mm	4/5	Landscape	-	132322	1745	22.25	23.50	1.334	0.18	0.076	0.101
	LTE Band 66 ANT8	20M	QPSK	1	0	Front	15mm	4/5	Landscape	-	132322	1745	23.85	24.50	1.161	-0.08	0.144	0.167
	LTE Band 66 ANT8	20M	QPSK	1	0	Front	15mm	4/5	Landscape	-	132072	1720	23.61	24.50	1.227	-0.04	0.126	0.155
	LTE Band 66 ANT8	20M	QPSK	1	0	Front	15mm	4/5	Landscape	-	132572	1770	23.67	24.50	1.211	0.01	0.155	0.188
	LTE Band 66 ANT8	20M	QPSK	50	0	Front	15mm	4/5	Landscape	-	132322	1745	22.85	23.50	1.161	-0.13	0.119	0.138
	LTE Band 66 ANT8	20M	QPSK	1	0	Back	15mm	4/5	Landscape	-	132322	1745	23.85	24.50	1.161	-0.06	0.140	0.163
	LTE Band 66 ANT8	20M	QPSK	50	0	Back	15mm	4/5	Landscape	-	132322	1745	22.85	23.50	1.161	0.16	0.113	0.131
	LTE Band 66 ANT8	20M	QPSK	1	0	Front	15mm	4/5	Portrait	-	132322	1745	23.18	24.50	1.355	-0.13	0.119	0.161
	LTE Band 66 ANT8	20M	QPSK	1	0	Front	15mm	4/5	Portrait	-	132072	1720	23.14	24.50	1.368	-0.09	0.116	0.159
	LTE Band 66 ANT8	20M	QPSK	1	0	Front	15mm	4/5	Portrait	-	132572	1770	23.12	24.50	1.374	0.01	0.139	0.191
	LTE Band 66 ANT8	20M	QPSK	50	0	Front	15mm	4/5	Portrait	-	132322	1745	22.25	23.50	1.334	0.09	0.099	0.132
	LTE Band 66 ANT8	20M	QPSK	1	0	Back	15mm	4/5	Portrait	-	132322	1745	23.18	24.50	1.355	-0.11	0.110	0.149
	LTE Band 66 ANT8	20M	QPSK	50	0	Back	15mm	4/5	Portrait	-	132322	1745	22.25	23.50	1.334	-0.11	0.092	0.123
	LTE Band 71 ANT0	20M	QPSK	1	99	Front	15mm	4/5	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	0.03	0.114	0.118
	LTE Band 71 ANT0	20M	QPSK	50	50	Front	15mm	4/5	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	0.07	0.082	0.084
70	LTE Band 71 ANT0	20M	QPSK	1	99	Back	15mm	4/5	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	-0.08	0.160	0.166
	LTE Band 71 ANT0	20M	QPSK	50	50	Back	15mm	4/5	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	-0.19	0.111	0.114
	LTE Band 71 ANT2	20M	QPSK	1	99	Front	15mm	4/5	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	-0.06	0.090	0.093
	LTE Band 71 ANT2	20M	QPSK	50	50	Front	15mm	4/5	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	0.02	0.112	0.115
	LTE Band 71 ANT2	20M	QPSK	1	99	Back	15mm	4/5	Portrait&Landscape	-	133322	683	25.35	25.50	1.035	-0.04	0.075	0.078
	LTE Band 71 ANT2	20M	QPSK	50	50	Back	15mm	4/5	Portrait&Landscape	-	133322	683	24.38	24.50	1.028	0.16	0.095	0.098



<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	LTE Band 41 ANT1	20M	QPSK	1	49	Front	15mm	4/5	Portrait	-	40185	2549.5	24.11	25.50	1.377	0.04	0.168	0.233
	LTE Band 41 ANT1	20M	QPSK	50	0	Front	15mm	4/5	Portrait	-	40185	2549.5	23.24	24.50	1.337	0.1	0.142	0.191
	LTE Band 41 ANT1	20M	QPSK	1	49	Back	15mm	4/5	Portrait	-	40185	2549.5	24.11	25.50	1.377	0	0.253	0.351
	LTE Band 41 ANT1	20M	QPSK	1	49	Back	15mm	4/5	Portrait	-	39750	2506	24.09	25.50	1.384	-0.15	0.224	0.312
71	LTE Band 41 ANT1	20M	QPSK	1	49	Back	15mm	4/5	Portrait	-	40620	2593	24.11	25.50	1.377	-0.08	0.266	0.369
	LTE Band 41 ANT1	20M	QPSK	1	49	Back	15mm	4/5	Portrait	-	41055	2636.5	24.08	25.50	1.387	-0.17	0.237	0.331
	LTE Band 41 ANT1	20M	QPSK	1	49	Back	15mm	4/5	Portrait	-	41490	2680	23.93	25.50	1.435	-0.16	0.175	0.253
	LTE Band 41 ANT1	20M	QPSK	50	0	Back	15mm	4/5	Portrait	-	40185	2549.5	23.24	24.50	1.337	-0.01	0.207	0.278
	LTE Band 41C ANT1	20M	QPSK	1	0	Back	15mm	4/5	Portrait	-	40185	2549.5	24.19	25.50	1.352	-0.03	0.173	0.235
	LTE Band 41 ANT8	20M	QPSK	1	49	Front	15mm	4/5	Landscape	-	40185	2549.5	24.11	25.50	1.377	0.04	0.109	0.151
	LTE Band 41 ANT8	20M	QPSK	1	49	Front	15mm	4/5	Landscape	-	39750	2506	24.09	25.50	1.384	0.05	0.124	0.173
	LTE Band 41 ANT8	20M	QPSK	1	49	Front	15mm	4/5	Landscape	-	40620	2593	24.11	25.50	1.377	0.02	0.082	0.114
	LTE Band 41 ANT8	20M	QPSK	1	49	Front	15mm	4/5	Landscape	-	41055	2636.5	24.08	25.50	1.387	-0.03	0.075	0.105
	LTE Band 41 ANT8	20M	QPSK	1	49	Front	15mm	4/5	Landscape	-	41490	2680	23.93	25.50	1.435	-0.13	0.048	0.069
	LTE Band 41 ANT8	20M	QPSK	50	0	Front	15mm	4/5	Landscape	-	40185	2549.5	23.24	24.50	1.337	0.1	0.088	0.118
	LTE Band 41 ANT8	20M	QPSK	1	49	Back	15mm	4/5	Landscape	-	40185	2549.5	24.11	25.50	1.377	0	0.106	0.147
	LTE Band 41 ANT8	20M	QPSK	50	0	Back	15mm	4/5	Landscape	-	40185	2549.5	23.24	24.50	1.337	0.07	0.099	0.133
	LTE Band 41C ANT8	20M	QPSK	1	0	Front	15mm	4/5	Landscape	-	40185	2549.5	24.19	25.50	1.352	0.08	0.120	0.163
	LTE Band 48 ANT9	20M	QPSK	1	0	Front	15mm	4/5	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	0	0.001	0.001
	LTE Band 48 ANT9	20M	QPSK	50	0	Front	15mm	4/5	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	0	0.001	0.001
	LTE Band 48 ANT9	20M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	0.17	0.089	0.113
	LTE Band 48 ANT9	20M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	55340	3560	20.84	22.00	1.306	-0.06	0.098	0.129
	LTE Band 48 ANT9	20M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	56150	3641	20.92	22.00	1.282	0.18	0.089	0.115
	LTE Band 48 ANT9	20M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	56640	3690	20.86	22.00	1.300	-0.05	0.090	0.118
	LTE Band 48 ANT9	20M	QPSK	50	0	Back	15mm	4/5	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	-0.01	0.070	0.089
	LTE Band 48 ANT11	20M	QPSK	1	0	Front	15mm	4/5	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	50	0	Front	15mm	4/5	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	0	0.001	0.001
	LTE Band 48 ANT11	20M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	55830	3609	20.97	22.00	1.268	0	0.131	0.167
	LTE Band 48 ANT11	20M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	55340	3560	20.84	22.00	1.306	-0.18	0.115	0.151
72	LTE Band 48 ANT11	20M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	56150	3641	20.92	22.00	1.282	0.05	0.160	0.206
	LTE Band 48 ANT11	20M	QPSK	1	0	Back	15mm	4/5	Portrait&Landscape	-	56640	3690	20.86	22.00	1.300	-0.14	0.136	0.178
	LTE Band 48 ANT11	20M	QPSK	50	0	Back	15mm	4/5	Portrait&Landscape	-	55830	3609	19.98	21.00	1.265	0.05	0.130	0.165



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 n5_Ant 0	20M	BPSK	1	1	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	-0.09	0.085	0.117
	FR1 n5_Ant 0	20M	BPSK	50	28	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	-0.13	0.095	0.134
	FR1 n5_Ant 0	20M	BPSK	1	1	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	0.02	0.110	0.152
73	FR1 n5_Ant 0	20M	BPSK	50	28	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	0.09	0.124	0.175
	FR1 n5_Ant 2	20M	BPSK	1	1	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	0.14	0.110	0.152
	FR1 n5_Ant 2	20M	BPSK	50	28	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	-0.07	0.115	0.162
	FR1 n5_Ant 2	20M	BPSK	1	1	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	167300	836.5	23.10	24.50	1.380	0.08	0.100	0.138
	FR1 n5_Ant 2	20M	BPSK	50	28	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	167300	836.5	23.01	24.50	1.409	0.02	0.103	0.145
	FR1 n7_Ant 1	50M	BPSK	1	268	DFT-15	Front	15mm	4/5	Portrait	-	507000	2535	23.46	24.50	1.271	-0.06	0.186	0.236
	FR1 n7_Ant 1	50M	BPSK	135	68	DFT-15	Front	15mm	4/5	Portrait	-	507000	2535	23.41	24.50	1.285	0.19	0.198	0.254
74	FR1 n7_Ant 1	50M	BPSK	1	268	DFT-15	Back	15mm	4/5	Portrait	-	507000	2535	23.46	24.50	1.271	0.08	0.302	0.384
	FR1 n7_Ant 1	50M	BPSK	135	68	DFT-15	Back	15mm	4/5	Portrait	-	507000	2535	23.41	24.50	1.285	-0.19	0.292	0.375
	FR1 n7_Ant 8	50M	BPSK	1	268	DFT-15	Front	15mm	4/5	Landscape	-	507000	2535	23.46	24.50	1.271	0.05	0.150	0.191
	FR1 n7_Ant 8	50M	BPSK	135	68	DFT-15	Front	15mm	4/5	Landscape	-	507000	2535	23.41	24.50	1.285	-0.06	0.165	0.212
	FR1 n7_Ant 8	50M	BPSK	1	268	DFT-15	Back	15mm	4/5	Landscape	-	507000	2535	23.46	24.50	1.271	-0.12	0.179	0.227
	FR1 n7_Ant 8	50M	BPSK	135	68	DFT-15	Back	15mm	4/5	Landscape	-	507000	2535	23.41	24.50	1.285	-0.03	0.188	0.242
	FR1 n12_Ant 0	15M	BPSK	1	1	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	0.09	0.058	0.078
	FR1 n12_Ant 0	15M	BPSK	36	22	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	-0.16	0.111	0.153
	FR1 n12_Ant 0	15M	BPSK	1	1	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	0.18	0.151	0.203
75	FR1 n12_Ant 0	15M	BPSK	36	22	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	0.09	0.157	0.216
	FR1 n12_Ant 2	15M	BPSK	1	1	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	-0.13	0.070	0.094
	FR1 n12_Ant 2	15M	BPSK	36	22	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	-0.04	0.060	0.083
	FR1 n12_Ant 2	15M	BPSK	1	1	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	141500	707.5	23.21	24.50	1.346	-0.08	0.061	0.082
	FR1 n12_Ant 2	15M	BPSK	36	22	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	141500	707.5	23.11	24.50	1.377	0.08	0.051	0.070
	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Front	15mm	4/5	Portrait	-	376500	1882.5	23.12	24.50	1.374	0.1	0.187	0.257
	FR1 n25_Ant 1	40M	BPSK	108	54	DFT-15	Front	15mm	4/5	Portrait	-	376500	1882.5	22.93	24.50	1.435	-0.02	0.198	0.284
	FR1 n25_Ant 1	40M	BPSK	1	214	DFT-15	Back	15mm	4/5	Portrait	-	376500	1882.5	23.12	24.50	1.374	-0.17	0.262	0.360
76	FR1 n25_Ant 1	40M	BPSK	108	54	DFT-15	Back	15mm	4/5	Portrait	-	376500	1882.5	22.93	24.50	1.435	-0.19	0.283	0.406
	FR1 n25_Ant 8	40M	BPSK	1	214	DFT-15	Front	15mm	4/5	Landscape	-	376500	1882.5	23.12	24.50	1.374	-0.19	0.168	0.231
	FR1 n25_Ant 8	40M	BPSK	108	54	DFT-15	Front	15mm	4/5	Landscape	-	376500	1882.5	22.93	24.50	1.435	0.09	0.154	0.221
	FR1 n25_Ant 8	40M	BPSK	1	214	DFT-15	Back	15mm	4/5	Landscape	-	376500	1882.5	23.12	24.50	1.374	-0.01	0.163	0.224
	FR1 n25_Ant 8	40M	BPSK	108	54	DFT-15	Back	15mm	4/5	Landscape	-	376500	1882.5	22.93	24.50	1.435	-0.18	0.142	0.204
	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	519000	2595	23.74	24.50	1.191	-0.05	0.230	0.274
	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Front	15mm	4/5	Portrait&Landscape	V	519000	2595	23.74	24.50	1.191	0.01	0.154	0.183
	FR1 n38_Ant 9	40M	BPSK	50	28	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	519000	2595	23.72	24.50	1.197	0.13	0.169	0.202
	FR1 n38_Ant 9	40M	BPSK	1	1	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	519000	2595	23.74	24.50	1.191	0.14	0.166	0.198
	FR1 n38_Ant 9	40M	BPSK	50	28	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	519000	2595	23.72	24.50	1.197	0.09	0.125	0.150
	FR1 n38_Ant 11	40M	BPSK	1	1	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	519000	2595	23.74	24.50	1.191	0	0.001	0.001
	FR1 n38_Ant 11	40M	BPSK	50	28	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	519000	2595	23.72	24.50	1.197	0	0.001	0.001
77	FR1 n38_Ant 11	40M	BPSK	1	1	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	519000	2595	23.74	24.50	1.191	-0.09	0.233	0.278
	FR1 n38_Ant 11	40M	BPSK	1	1	DFT-30	Back	15mm	4/5	Portrait&Landscape	V	519000	2595	23.74	24.50	1.191	-0.05	0.046	0.055
	FR1 n38_Ant 11	40M	BPSK	50	28	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	519000	2595	23.72	24.50	1.197	0.04	0.137	0.164



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 n41_Ant 9	100M	BPSK	1	137	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	518598	2592.99	23.11	24.00	1.227	0.09	0.204	0.250
	FR1 n41_Ant 9	100M	BPSK	135	69	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	518598	2592.99	23.14	24.00	1.219	-0.18	0.190	0.232
	FR1 n41_Ant 9	100M	BPSK	1	137	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	518598	2592.99	23.11	24.00	1.227	0.15	0.166	0.204
	FR1 n41_Ant 9	100M	BPSK	135	69	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	518598	2592.99	23.14	24.00	1.219	0.11	0.151	0.184
	FR1 n41_Ant 11	100M	BPSK	1	137	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	518598	2592.99	23.11	24.00	1.227	0	0.001	0.001
	FR1 n41_Ant 11	100M	BPSK	135	69	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	518598	2592.99	23.14	24.00	1.219	0	0.001	0.001
78	FR1 n41_Ant 11	100M	BPSK	1	137	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	518598	2592.99	23.11	24.00	1.227	-0.09	0.215	0.264
	FR1 n41_Ant 11	100M	BPSK	135	69	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	518598	2592.99	23.14	24.00	1.219	0.12	0.209	0.255
	FR1 n41_Ant 1	100M	QPSK	1	271	CP-30	Front	15mm	4/5	Portrait	-	518598	2592.99	20.70	21.50	1.202	0.04	0.082	0.099
	FR1 n41_Ant 1	100M	QPSK	135	69	CP-30	Front	15mm	4/5	Portrait	-	518598	2592.99	20.85	21.50	1.161	-0.16	0.093	0.108
	FR1 n41_Ant 1	100M	QPSK	1	271	CP-30	Back	15mm	4/5	Portrait	-	518598	2592.99	20.70	21.50	1.202	-0.02	0.121	0.145
	FR1 n41_Ant 1	100M	QPSK	135	69	CP-30	Back	15mm	4/5	Portrait	-	518598	2592.99	20.85	21.50	1.161	-0.11	0.134	0.156
	FR1 n41_Ant 3	100M	QPSK	1	271	CP-30	Front	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.70	21.50	1.202	0.04	0.074	0.089
	FR1 n41_Ant 3	100M	QPSK	135	69	CP-30	Front	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.85	21.50	1.161	0.03	0.066	0.077
	FR1 n41_Ant 3	100M	QPSK	1	271	CP-30	Back	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.70	21.50	1.202	0.13	0.084	0.101
	FR1 n41_Ant 3	100M	QPSK	135	69	CP-30	Back	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.85	21.50	1.161	-0.12	0.098	0.114
	FR1 n41_Ant 3	100M	QPSK	135	69	CP-30	Back	15mm	4/5	Portrait&Landscape	V	518598	2592.99	20.85	21.50	1.161	-0.07	0.001	0.001
	FR1 n41_Ant 8	100M	QPSK	1	271	CP-30	Front	15mm	4/5	Landscape	-	518598	2592.99	20.70	21.50	1.202	0	0.001	0.001
	FR1 n41_Ant 8	100M	QPSK	135	69	CP-30	Front	15mm	4/5	Landscape	-	518598	2592.99	20.85	21.50	1.161	0	0.001	0.001
	FR1 n41_Ant 8	100M	QPSK	1	271	CP-30	Back	15mm	4/5	Landscape	-	518598	2592.99	20.70	21.50	1.202	0	0.001	0.001
	FR1 n41_Ant 8	100M	QPSK	135	69	CP-30	Back	15mm	4/5	Landscape	-	518598	2592.99	20.85	21.50	1.161	0	0.001	0.001
	FR1 n41_Ant 9	100M	QPSK	1	1	CP-30	Front	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	0.08	0.116	0.143
	FR1 n41_Ant 9	100M	QPSK	135	138	CP-30	Front	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	-0.05	0.118	0.143
	FR1 n41_Ant 9	100M	QPSK	1	1	CP-30	Back	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	-0.02	0.081	0.100
	FR1 n41_Ant 9	100M	QPSK	135	138	CP-30	Back	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	-0.03	0.095	0.115
	FR1 n41_Ant 11	100M	QPSK	1	1	CP-30	Front	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	0	0.001	0.001
	FR1 n41_Ant 11	100M	QPSK	135	138	CP-30	Front	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	0	0.001	0.001
	FR1 n41_Ant 11	100M	QPSK	1	1	CP-30	Back	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.60	21.50	1.230	-0.01	0.103	0.127
	FR1 n41_Ant 11	100M	QPSK	135	138	CP-30	Back	15mm	4/5	Portrait&Landscape	-	518598	2592.99	20.67	21.50	1.211	-0.15	0.120	0.145
	FR1 n66_Ant 1	40M	BPSK	1	214	DFT-15	Front	15mm	4/5	Portrait	-	349000	1745	23.23	24.50	1.340	-0.05	0.084	0.113
	FR1 n66_Ant 1	40M	BPSK	108	54	DFT-15	Front	15mm	4/5	Portrait	-	349000	1745	22.97	24.50	1.422	0.18	0.079	0.112
	FR1 n66_Ant 1	40M	BPSK	1	214	DFT-15	Back	15mm	4/5	Portrait	-	349000	1745	23.23	24.50	1.340	-0.11	0.110	0.147
79	FR1 n66_Ant 1	40M	BPSK	108	54	DFT-15	Back	15mm	4/5	Portrait	-	349000	1745	22.97	24.50	1.422	-0.14	0.113	0.161
	FR1 n66_Ant 8	40M	BPSK	1	214	DFT-15	Front	15mm	4/5	Landscape	-	349000	1745	23.23	24.50	1.340	-0.04	0.116	0.155
	FR1 n66_Ant 8	40M	BPSK	108	54	DFT-15	Front	15mm	4/5	Landscape	-	349000	1745	22.97	24.50	1.422	0.1	0.096	0.137
	FR1 n66_Ant 8	40M	BPSK	1	214	DFT-15	Back	15mm	4/5	Landscape	-	349000	1745	23.23	24.50	1.340	0.02	0.095	0.127
	FR1 n66_Ant 8	40M	BPSK	108	54	DFT-15	Back	15mm	4/5	Landscape	-	349000	1745	22.97	24.50	1.422	-0.03	0.088	0.125



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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 n71_Ant 0	20M	BPSK	1	1	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	-0.17	0.124	0.172
	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	0.13	0.123	0.171
80	FR1 n71_Ant 0	20M	BPSK	1	1	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	-0.1	0.172	0.239
	FR1 n71_Ant 0	20M	BPSK	50	28	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	0.15	0.164	0.228
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	-0.08	0.022	0.031
	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Front	15mm	4/5	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	-0.17	0.011	0.015
	FR1 n71_Ant 2	20M	BPSK	1	1	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	136100	680.5	23.07	24.50	1.390	0.17	0.009	0.013
	FR1 n71_Ant 2	20M	BPSK	50	28	DFT-15	Back	15mm	4/5	Portrait&Landscape	-	136100	680.5	23.06	24.50	1.393	-0.14	0.008	0.011
	FR1 n77_Ant 9	100M	BPSK	1	137	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	-0.04	0.139	0.148
	FR1 n77_Ant 9	100M	BPSK	135	69	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	0.02	0.141	0.152
	FR1 n77_Ant 9	100M	BPSK	1	137	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	0.09	0.148	0.157
	FR1 n77_Ant 9	100M	BPSK	135	69	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	-0.08	0.155	0.167
	FR1 n77_Ant 11	100M	BPSK	1	137	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	-0.01	0.041	0.043
	FR1 n77_Ant 11	100M	BPSK	135	69	DFT-30	Front	15mm	4/5	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	-0.1	0.045	0.048
	FR1 n77_Ant 11	100M	BPSK	1	137	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	656000	3840	21.73	22.00	1.064	0.08	0.213	0.227
	FR1 n77_Ant 11	100M	BPSK	135	69	DFT-30	Back	15mm	4/5	Portrait&Landscape	-	656000	3840	21.68	22.00	1.076	-0.18	0.209	0.225

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 4	4	Normal	-	1	2412	21.40	22.00	1.148	98.20	1.018	0.17	0.042	0.049
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 4	4	Normal	-	1	2412	21.40	22.00	1.148	98.20	1.018	0.12	0.081	0.095
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 5	4	Normal	-	1	2412	20.60	21.00	1.096	98.20	1.018	-0.13	0.118	0.132
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 5	4	Normal	-	6	2437	19.20	19.50	1.072	98.20	1.018	-0.1	0.085	0.093
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 5	4	Normal	-	11	2462	19.70	20.00	1.072	98.20	1.018	0.12	0.078	0.085
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5	4	Normal	-	1	2412	20.60	21.00	1.096	98.20	1.018	0.15	0.016	0.018
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 4+5	4	Normal	-	1	2412	24.18	24.50	1.076	98.22	1.018	0.16	0.082	0.090
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 4+5	4	Normal	-	1	2412	24.18	24.50	1.076	98.22	1.018	-0.13	0.081	0.089
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 6	6	Camera	-	11	2462	19.30	19.50	1.047	98.20	1.018	-0.08	0.063	0.067
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 6	6	Camera	-	11	2462	19.30	19.50	1.047	98.20	1.018	-0.13	0.126	0.134
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 6	6	Camera	-	1	2412	18.40	18.50	1.023	98.20	1.018	0.01	0.147	0.153
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 6	6	Camera	-	6	2437	18.60	19.00	1.096	98.20	1.018	-0.15	0.147	0.164
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 5	6	Camera	-	11	2462	20.80	21.00	1.047	98.20	1.018	0	0.094	0.100
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 5	6	Camera	-	11	2462	20.80	21.00	1.047	98.20	1.018	-0.11	0.090	0.096
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 6+5	6	Camera	-	1	2412	22.75	23.00	1.060	97.94	1.021	0.13	0.102	0.110
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 6+5	6	Camera	-	1	2412	22.75	23.00	1.060	97.94	1.021	0.03	0.159	0.172
82	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 6+5	6	Camera	-	6	2437	22.67	23.00	1.080	97.94	1.021	-0.14	0.169	0.186
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 6+5	6	Camera	V	6	2437	22.67	23.00	1.080	97.94	1.021	0.02	0.085	0.094
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 6+5	6	Camera	-	11	2462	23.28	23.50	1.051	97.94	1.021	0.12	0.169	0.181



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	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)
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 4	4	Normal	-	62	5310	19.30	20.00	1.175	99.70	1.003	-0.05	0.069	0.081
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 4	4	Normal	-	62	5310	19.30	20.00	1.175	99.70	1.003	-0.14	0.073	0.086
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5	4	Normal	-	54	5270	18.60	19.00	1.096	99.70	1.003	-0.06	0.061	0.067
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5	4	Normal	-	54	5270	18.60	19.00	1.096	99.70	1.003	-0.17	0.305	0.335
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5	4	Normal	-	62	5310	18.50	18.50	1.000	99.70	1.003	0.16	0.303	0.304
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 4+5	4	Normal	-	54	5270	22.08	22.50	1.101	100.00	1.000	-0.07	0.074	0.081
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 4+5	4	Normal	-	54	5270	22.08	22.50	1.101	100.00	1.000	0.02	0.243	0.267
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 4+5	4	Normal	-	62	5310	21.93	22.50	1.140	100.00	1.000	-0.19	0.275	0.314
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 6	6	Camera	-	54	5270	19.60	20.00	1.096	99.70	1.003	-0.05	0.051	0.056
83	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	6	Camera	-	54	5270	19.60	20.00	1.096	99.70	1.003	-0.13	0.924	1.016
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	6	Camera	V	54	5270	19.60	20.00	1.096	99.70	1.003	0.17	0.368	0.405
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	6	Camera	-	62	5310	18.50	19.00	1.122	99.70	1.003	-0.14	0.641	0.721
	WLAN5GHz	802.11a 6Mbps	Back	15mm	Ant 6	6	Camera	-	60	5300	19.40	19.50	1.023	99.10	1.009	-0.02	0.774	0.799
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5	6	Camera	-	54	5270	18.50	19.00	1.122	99.70	1.003	-0.19	0.087	0.098
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5	6	Camera	-	54	5270	18.50	19.00	1.122	99.70	1.003	-0.1	0.321	0.361
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 6+5	6	Camera	-	54	5270	22.30	22.50	1.048	100	1.000	0.01	0.074	0.078
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6+5	6	Camera	-	54	5270	22.30	22.50	1.048	100	1.000	-0.02	0.947	0.993
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6+5	6	Camera	-	62	5310	20.82	21.50	1.168	100	1.000	-0.03	0.588	0.687
	WLAN5GHz	802.11a 6Mbps	Back	15mm	Ant 6+5	6	Camera	-	52	5260	22.00	22.00	1.001	100	1.000	-0.07	0.823	0.824
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 4	4	Normal	-	134	5670	19.70	20.00	1.072	99.70	1.003	0.12	0.073	0.078
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 4	4	Normal	-	134	5670	19.70	20.00	1.072	99.70	1.003	0.06	0.063	0.068
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 5	4	Normal	-	106	5530	19.10	19.50	1.096	99.70	1.003	0.16	0.053	0.058
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 5	4	Normal	-	106	5530	19.10	19.50	1.096	99.70	1.003	-0.14	0.203	0.223
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 4+5	4	Normal	-	110	5550	22.61	23.00	1.093	100.00	1.000	-0.02	0.101	0.110
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 4+5	4	Normal	-	110	5550	22.61	23.00	1.093	100.00	1.000	-0.06	0.229	0.250
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 4+5	4	Normal	-	102	5510	22.11	22.50	1.093	100.00	1.000	0.01	0.216	0.236
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 4+5	4	Normal	-	126	5630	22.38	22.50	1.028	100.00	1.000	0.04	0.198	0.204
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 4+5	4	Normal	-	134	5670	21.98	22.50	1.126	100.00	1.000	0.08	0.194	0.218
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 6	6	Camera	-	110	5550	19.80	20.00	1.047	99.70	1.003	0.06	0.069	0.072
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	6	Camera	-	110	5550	19.80	20.00	1.047	99.70	1.003	-0.01	0.698	0.733
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	6	Camera	-	102	5510	19.10	19.50	1.096	99.70	1.003	0	0.562	0.618
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	6	Camera	-	102	5510	19.10	19.50	1.096	99.70	1.003	0	0.562	0.618
84	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	6	Camera	-	134	5670	19.50	20.00	1.122	99.70	1.003	-0.03	0.727	0.818
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5	6	Camera	-	110	5550	19.20	19.50	1.072	99.70	1.003	-0.05	0.041	0.044
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5	6	Camera	-	110	5550	19.20	19.50	1.072	99.70	1.003	-0.03	0.163	0.175
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 6+5	6	Camera	-	110	5550	22.57	23.00	1.105	100	1.000	-0.09	0.053	0.059
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6+5	6	Camera	-	110	5550	22.57	23.00	1.105	100	1.000	-0.08	0.562	0.621



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	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)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 4	4	Normal	-	155	5775	19.70	20.00	1.072	99.70	1.003	-0.01	0.061	0.066
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 4	4	Normal	-	155	5775	19.70	20.00	1.072	99.70	1.003	-0.06	0.106	0.114
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 5	4	Normal	-	155	5775	19.40	20.00	1.148	99.70	1.003	0.06	0.114	0.131
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 5	4	Normal	-	155	5775	19.40	20.00	1.148	99.70	1.003	-0.03	0.137	0.158
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 4+5	4	Normal	-	155	5775	22.61	23.00	1.093	100.00	1.000	0.04	0.112	0.122
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 4+5	4	Normal	-	155	5775	22.61	23.00	1.093	100.00	1.000	-0.07	0.137	0.150
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 6	6	Camera	-	155	5775	19.70	20.00	1.072	99.70	1.003	-0.01	0.058	0.062
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6	6	Camera	-	155	5775	19.70	20.00	1.072	99.70	1.003	-0.17	0.764	0.821
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6	6	Camera	-	151	5755	19.70	20.00	1.072	99.70	1.003	-0.03	0.694	0.746
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 5	6	Camera	-	155	5775	19.00	20.00	1.259	99.70	1.003	-0.01	0.104	0.131
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 5	6	Camera	-	155	5775	19.00	20.00	1.259	99.70	1.003	-0.03	0.137	0.173
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 6+5	6	Camera	-	155	5775	22.61	23.00	1.093	100.00	1.000	0.05	0.121	0.132
85	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+5	6	Camera	-	155	5775	22.61	23.00	1.093	100.00	1.000	-0.12	0.816	0.892
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+5	6	Camera	V	155	5775	22.61	23.00	1.093	100.00	1.000	0.04	0.302	0.330
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6+5	6	Camera	-	159	5795	22.56	23.00	1.106	100.00	1.000	-0.18	0.767	0.848

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	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	15mm	Ant 4	4	Normal	-	39	2441	19.26	19.40	1.034	76.83	1.084	0.07	0.024	0.027
86	Bluetooth	1Mbps	Back	15mm	Ant 4	4	Normal	-	39	2441	19.26	19.40	1.034	76.83	1.084	-0.03	0.060	0.067
	Bluetooth	1Mbps	Back	15mm	Ant 4	4	Normal	V	39	2441	19.26	19.40	1.034	76.83	1.084	0.05	0.020	0.022
	Bluetooth	1Mbps	Front	15mm	Ant 5	4/6	Normal&Camera	-	39	2441	18.36	18.50	1.034	76.83	1.084	0	0.001	0.001
	Bluetooth	1Mbps	Back	15mm	Ant 5	4/6	Normal&Camera	-	39	2441	18.36	18.50	1.034	76.83	1.084	-0.06	0.052	0.058
	Bluetooth	1Mbps	Back	15mm	Ant 5	4/6	Normal&Camera	-	0	2402	16.08	17.50	1.388	76.83	1.084	0	0.001	0.002
	Bluetooth	1Mbps	Back	15mm	Ant 5	4/6	Normal&Camera	-	78	2480	17.07	17.50	1.105	76.83	1.084	0	0.001	0.001
	Bluetooth	1Mbps	Front	15mm	Ant 6	6	Camera	-	78	2480	18.22	18.50	1.068	76.83	1.084	0.11	0.001	0.001
	Bluetooth	1Mbps	Back	15mm	Ant 6	6	Camera	-	78	2480	18.22	18.50	1.068	76.83	1.084	-0.03	0.045	0.052

12.4 Product Specific SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Output Power State	Device Mode	Aero Active Cooler	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)
	GSM1900 ANT1	GPRS (2 Tx slots)	Bottom Side	0mm	4/5	Portrait	-	661	1880	30.24	31.50	1.337	-0.16	1.540	2.059
87	GSM1900 ANT1	GPRS (2 Tx slots)	Bottom Side	0mm	4/5	Portrait	-	512	1850.2	29.75	31.50	1.496	0.12	1.750	2.618
	GSM1900 ANT1	GPRS (2 Tx slots)	Bottom Side	0mm	4/5	Portrait	-	810	1909.8	30.12	31.50	1.374	0.01	0.835	1.148



<WCDMA SAR>

Table with 17 columns: Plot No., Band, Mode, Test Position, Gap (mm), Output Power State, Device Mode, Aero Active Cooler, 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). Rows include WCDMA II ANT1 and WCDMA IV ANT1 configurations.

<LTE SAR>

Table with 17 columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Test Position, Gap (mm), Output Power State, Device Mode, Aero Active Cooler, 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). Rows include LTE Band 7 and LTE Band 25 configurations.

<5G NR SAR>

Table with 17 columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Mode, Test Position, Gap (mm), Power Reduction, Device Mode, Aero Active Cooler, 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). Rows include FR1 n25_Ant 1 and FR1 n25_Ant 8 configurations.



<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4	4	Normal	-	62	5310	19.30	20.00	1.175	99.70	1.003	0.05	0.532	0.627
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4	4	Normal	-	62	5310	19.30	20.00	1.175	99.70	1.003	0.09	0.417	0.491
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4	4	Normal	-	62	5310	19.30	20.00	1.175	99.70	1.003	0.14	0.184	0.217
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4	4	Normal	-	62	5310	19.30	20.00	1.175	99.70	1.003	0.01	0.104	0.123
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5	4	Normal	-	54	5270	18.60	19.00	1.096	99.70	1.003	-0.06	0.426	0.469
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	4	Normal	-	54	5270	18.60	19.00	1.096	99.70	1.003	0.07	0.346	0.381
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	4	Normal	-	54	5270	18.60	19.00	1.096	99.70	1.003	-0.01	0.655	0.720
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	4	Normal	-	62	5310	18.50	18.50	1.000	99.70	1.003	0.1	0.461	0.462
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+5	4	Normal	-	54	5270	22.08	22.50	1.101	100.00	1.000	0.05	0.439	0.483
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+5	4	Normal	-	54	5270	22.08	22.50	1.101	100.00	1.000	-0.05	0.409	0.450
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4+5	4	Normal	-	54	5270	22.08	22.50	1.101	100.00	1.000	0.01	0.512	0.564
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4+5	4	Normal	-	62	5310	21.93	22.50	1.140	100.00	1.000	-0.13	0.609	0.694
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+5	4	Normal	-	54	5270	22.08	22.50	1.101	100.00	1.000	-0.06	0.077	0.085
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 6	6	Camera	-	54	5270	19.60	20.00	1.096	99.70	1.003	0.01	0.084	0.092
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	6	Camera	-	54	5270	19.60	20.00	1.096	99.70	1.003	-0.07	2.320	2.551
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	6	Camera	-	62	5310	18.50	19.00	1.122	99.70	1.003	-0.1	1.880	2.116
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 6	6	Camera	-	60	5300	19.40	19.50	1.023	99.10	1.009	0.07	2.280	2.354
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 6	6	Camera	-	54	5270	19.60	20.00	1.096	99.70	1.003	0.02	0.305	0.335
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	6	Camera	-	54	5270	19.60	20.00	1.096	99.70	1.003	0	0.016	0.018
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	6	Camera	-	54	5270	19.60	20.00	1.096	99.70	1.003	0.16	0.120	0.132
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5	6	Camera	-	54	5270	18.50	19.00	1.122	99.70	1.003	0.05	0.367	0.413
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	6	Camera	-	54	5270	18.50	19.00	1.122	99.70	1.003	-0.05	0.355	0.400
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 5	6	Camera	-	54	5270	18.50	19.00	1.122	99.70	1.003	0.09	0.025	0.028
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	6	Camera	-	54	5270	18.50	19.00	1.122	99.70	1.003	-0.14	0.515	0.580
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Ant 5	6	Camera	-	54	5270	18.50	19.00	1.122	99.70	1.003	0.1	0.024	0.027
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 6+5	6	Camera	-	54	5270	22.30	22.50	1.048	100	1.000	0.01	0.486	0.509
95	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+5	6	Camera	-	54	5270	22.30	22.50	1.048	100	1.000	-0.08	2.630	2.757
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+5	6	Camera	V	54	5270	22.30	22.50	1.048	100	1.000	0.17	0.423	0.443
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+5	6	Camera	-	62	5310	20.82	21.50	1.168	100	1.000	-0.17	1.880	2.196
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 6+5	6	Camera	-	52	5260	22.00	22.00	1.001	99.05	1.010	-0.04	2.160	2.184
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 6+5	6	Camera	-	54	5270	22.30	22.50	1.048	100	1.000	0.15	0.532	0.558
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6+5	6	Camera	-	54	5270	22.30	22.50	1.048	100	1.000	-0.18	0.698	0.732
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6+5	6	Camera	-	54	5270	22.30	22.50	1.048	100	1.000	0.01	0.188	0.197



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4	4	Normal	-	134	5670	19.70	20.00	1.072	99.70	1.003	-0.06	0.278	0.299
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4	4	Normal	-	134	5670	19.70	20.00	1.072	99.70	1.003	0.17	0.431	0.463
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4	4	Normal	-	134	5670	19.70	20.00	1.072	99.70	1.003	0.02	0.129	0.139
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4	4	Normal	-	134	5670	19.70	20.00	1.072	99.70	1.003	-0.04	0.145	0.156
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5	4	Normal	-	106	5530	19.10	19.50	1.096	99.70	1.003	-0.16	0.424	0.466
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	4	Normal	-	106	5530	19.10	19.50	1.096	99.70	1.003	-0.05	0.495	0.544
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	4	Normal	-	106	5530	19.10	19.50	1.096	99.70	1.003	0.11	0.482	0.530
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+5	4	Normal	-	110	5550	22.61	23.00	1.093	100.00	1.000	0.05	0.345	0.377
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+5	4	Normal	-	110	5550	22.61	23.00	1.093	100.00	1.000	-0.02	0.544	0.594
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+5	4	Normal	-	102	5510	22.11	22.50	1.093	100.00	1.000	0.01	0.438	0.479
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+5	4	Normal	-	126	5630	22.38	22.50	1.028	100.00	1.000	0.02	0.411	0.423
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4+5	4	Normal	-	134	5670	21.98	22.50	1.126	100.00	1.000	-0.15	0.355	0.400
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4+5	4	Normal	-	110	5550	22.61	23.00	1.093	100.00	1.000	0.09	0.458	0.500
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+5	4	Normal	-	110	5550	22.61	23.00	1.093	100.00	1.000	-0.17	0.147	0.161
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 6	6	Camera	-	110	5550	19.80	20.00	1.047	99.70	1.003	0.08	0.078	0.082
96	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	6	Camera	-	110	5550	19.80	20.00	1.047	99.70	1.003	-0.1	2.460	2.584
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	6	Camera	-	102	5510	19.10	19.50	1.096	99.70	1.003	-0.03	2.080	2.288
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	6	Camera	-	126	5630	19.50	20.00	1.122	99.70	1.003	0.04	1.990	2.240
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	6	Camera	-	134	5670	19.50	20.00	1.122	99.70	1.003	-0.13	2.010	2.262
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 6	6	Camera	-	110	5550	19.80	20.00	1.047	99.70	1.003	-0.04	0.535	0.562
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6	6	Camera	-	110	5550	19.80	20.00	1.047	99.70	1.003	0.03	0.025	0.026
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	6	Camera	-	110	5550	19.80	20.00	1.047	99.70	1.003	0.17	0.214	0.225
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5	6	Camera	-	110	5550	19.20	19.50	1.072	99.70	1.003	-0.01	0.234	0.251
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	6	Camera	-	110	5550	19.20	19.50	1.072	99.70	1.003	0.06	0.330	0.355
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 5	6	Camera	-	110	5550	19.20	19.50	1.072	99.70	1.003	0.09	0.023	0.025
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	6	Camera	-	110	5550	19.20	19.50	1.072	99.70	1.003	-0.1	0.346	0.372
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Side	0mm	Ant 5	6	Camera	-	110	5550	19.20	19.50	1.072	99.70	1.003	-0.06	0.010	0.011
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 6+5	6	Camera	-	110	5550	22.57	23.00	1.105	100	1.000	0.01	0.216	0.239
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+5	6	Camera	-	110	5550	22.57	23.00	1.105	100	1.000	-0.09	1.810	2.000
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+5	6	Camera	-	102	5510	21.77	22.50	1.182	100	1.000	0.01	1.740	2.056
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+5	6	Camera	-	126	5630	21.78	22.50	1.180	100	1.000	0.04	1.720	2.030
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+5	6	Camera	-	134	5670	21.80	22.50	1.174	100	1.000	-0.09	2.080	2.442
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Ant 6+5	6	Camera	-	110	5550	22.57	23.00	1.105	100	1.000	-0.06	0.344	0.380
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 6+5	6	Camera	-	110	5550	22.57	23.00	1.105	100	1.000	0	0.345	0.381
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6+5	6	Camera	-	110	5550	22.57	23.00	1.105	100	1.000	0.07	0.125	0.138



12.5 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Device Mode	Aero Active Cooler	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 IV ANT1	RMC 12.2Kbps	Bottom Side	10mm	-	3	Portrait	-	1413	1732.6	24.10	24.50	1.096	-	-	0.11	0.867	-	0.951
2nd	WCDMA IV ANT1	RMC 12.2Kbps	Bottom Side	10mm	-	3	Portrait	-	1413	1732.6	24.10	24.50	1.096	-	-	-0.09	0.851	1.02	0.933
1st	LTE Band 30 ANT1	10M_QPSK_1_0	Bottom Side	10mm	-	3	Portrait	-	27710	2310	22.01	23.50	1.409	-	-	-0.013	0.824	-	1.161
2nd	LTE Band 30 ANT1	10M_QPSK_1_0	Bottom Side	10mm	-	3	Portrait	-	27710	2310	22.01	23.50	1.409	-	-	-0.02	0.803	1.03	1.132
1st	LTE Band 26 ANT2	15M_QPSK_1_37	Right Cheek	0mm	-	1	Portrait	-	26865	831.5	24.50	25.00	1.122	-	-	-0.19	1.020	-	1.144
2nd	LTE Band 26 ANT2	15M_QPSK_1_37	Right Cheek	0mm	-	1	Portrait	-	26865	831.5	24.50	25.00	1.122	-	-	-0.1	0.998	1.03	1.120
1st	FR1 n25_Ant 1	40M_BPSK_1_214	Bottom Side	10mm	-	3	Portrait	-	376500	1882.5	23.12	23.50	1.091	-	-	-0.1	1.080	-	1.179
2nd	FR1 n25_Ant 1	40M_BPSK_1_214	Bottom Side	10mm	-	3	Portrait	-	376500	1882.5	23.12	23.50	1.091	-	-	-0.1	1.010	1.07	1.102
1st	FR1 n41_Ant 9-	100M_BPSK_135_69	Right Cheek	0mm	-	1	Portrait	-	518598	2592.99	19.56	20.00	1.107	-	-	-0.14	1.060	-	1.173
2nd	FR1 n41_Ant 9-	100M_BPSK_135_69	Right Cheek	0mm	-	1	Portrait	-	518598	2592.99	19.56	20.00	1.107	-	-	-0.14	1.041	1.02	1.152
1st	FR1 n77_Ant 9-	100M_BPSK_270_0	Right Cheek	0mm	-	1	Portrait	-	656000	3840	21.66	22.00	1.081	-	-	0.02	1.080	-	1.168
2nd	FR1 n77_Ant 9-	100M_BPSK_270_0	Right Cheek	0mm	-	1	Portrait	-	656000	3840	21.66	22.00	1.081	-	-	0.09	1.060	1.02	1.146
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+5	6	Camera	-	155	5775	22.61	23.00	1.093	100.00	1.000	-0.12	0.816	-	0.892
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+5	6	Camera	-	155	5775	22.61	23.00	1.093	100.00	1.000	0.06	0.801	1.02	0.875

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Output Power State	Configure	Aero Active Cooler	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	WCDMA IV ANT1	RMC 12.2Kbps	Bottom Side	0mm	-	4/5	Portrait	V	1312	1712.4	23.99	25.00	1.262	1.000	1.000	0.08	2.150	-	2.713
2nd	WCDMA IV ANT1	RMC 12.2Kbps	Bottom Side	0mm	-	4/5	Portrait	-	1312	1712.4	23.99	25.00	1.262	1.000	1.000	-0.03	2.590	0.83	3.268
1st	LTE Band 7 ANT1	20M_QPSK_1_0	Bottom Side	0mm	-	4/5	Portrait	-	20850	2510	22.85	23.50	1.161	1.000	1.000	0.08	2.810	-	3.264
2nd	LTE Band 7 ANT1	20M_QPSK_1_0	Bottom Side	0mm	-	4/5	Portrait	-	20850	2510	22.85	23.50	1.161	1.000	1.000	-0.03	2.770	1.01	3.217
1st	LTE Band 25 ANT8	20M_QPSK_1_0	Left Side	0mm	-	4/5	Landscape	-	26140	1860	24.38	25.50	1.294	1.000	1.000	0.06	2.440	-	3.158
2nd	LTE Band 25 ANT8	20M_QPSK_1_0	Left Side	0mm	-	4/5	Landscape	-	26140	1860	24.38	25.50	1.294	1.000	1.000	0.03	2.410	1.01	3.119
1st	LTE Band 30 ANT1	10M_QPSK_1_0	Bottom Side	0mm	-	4/5	Portrait	-	27710	2310	23.98	25.00	1.265	1.000	1.000	-0.03	2.660	-	3.364
2nd	LTE Band 30 ANT1	10M_QPSK_1_0	Bottom Side	0mm	-	4/5	Portrait	-	27710	2310	23.98	25.00	1.265	1.000	1.000	0.12	2.610	1.02	3.301
1st	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	6	Camera	-	110	5550	19.80	20.00	1.047	99.70	1.003	-0.1	2.460	-	2.584
2nd	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	6	Camera	-	110	5550	19.80	20.00	1.047	99.70	1.003	0.01	2.380	1.03	2.500
1st	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+5	6	Camera	-	54	5270	22.30	22.50	1.048	100	1.000	-0.08	2.630	-	2.757
2nd	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6+5	6	Camera	-	54	5270	22.30	22.50	1.048	100	1.000	0.04	2.580	1.02	2.705

General Note:

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



13. Simultaneous Transmission Configuration

Mode	Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Product Specific
Portrait & Landscape with WiFi Normal mode	UMTS/LTE + WLAN 2.4GHz (Ant 4 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 4 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + BT (Ant 4 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 4 /Chain0)+ BT(Ant 4 /Chain0) + FR1	No	No	No	No
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 4 /Chain0)+ BT(Ant 4 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 5 /Chain1) + BT(Ant 4 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 5 /Chain1) + BT(Ant 4 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 4 /Chain0)+ BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 4 /Chain0)+ BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 5 /Chain1) + BT(Ant 5 /Chain1) + FR1	No	No	No	No
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 5 /Chain1) + BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz MIMO (Ant 4 /Chain0+Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E MIMO (Ant 4 /Chain0+ Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz MIMO (Ant 4 /Chain0+Ant 5 /Chain1)+ BT(Ant 4 /Chain0) + FR1	No	No	No	No
	UMTS/LTE + WLAN 5GHz / WiFi6E MIMO (Ant 4 /Chain0+Ant 5 /Chain1)+ BT(Ant 4 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz MIMO (Ant 4 /Chain0+Ant 5 /Chain1)+ BT(Ant 5 /Chain1) + FR1	No	No	No	No
	UMTS/LTE + WLAN 5GHz / WiFi6E MIMO (Ant 4 /Chain0+Ant 5 /Chain1)+ BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 4 /Chain0)+ WLAN 5GHz / WiFi6E (Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 4 /Chain0)+ WLAN 2.4GHz (Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 4 /Chain0)+ WLAN 5GHz / WiFi6E (Ant 5 /Chain1)+ BT(Ant 4 /Chain0) + FR1	No	No	No	No
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 4 /Chain0)+ WLAN 2.4GHz (Ant 5 /Chain1)+ BT(Ant 4 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 4 /Chain0)+ WLAN 5GHz / WiFi6E (Ant 5 /Chain1)+ BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 4 /Chain0)+ WLAN 2.4GHz (Ant 5 /Chain1)+ BT(Ant 5 /Chain1) + FR1	No	No	No	No
UMTS/LTE + WLAN 2.4GHz MIMO (Ant 4 /Chain0+Ant 5 /Chain1)+ WLAN 5GHz / WiFi6E MIMO (Ant 4 /Chain0+Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes	



Mode	Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Product Specific
Portrait & Landscape with WiFi camera mode	UMTS/LTE + WLAN 2.4GHz (Ant 6 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 6 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + BT (Ant 6 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 6 /Chain0)+ BT(Ant 6 /Chain0) + FR1	No	No	No	No
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 6 /Chain0)+ BT(Ant 6 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 5 /Chain1) + BT(Ant 6 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 5 /Chain1) + BT(Ant 6 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 6 /Chain0)+ BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 6 /Chain0)+ BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 5 /Chain1) + BT(Ant 5 /Chain1) + FR1	No	No	No	No
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 5 /Chain1) + BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz MIMO (Ant 6 /Chain0+Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E MIMO (Ant 6 /Chain0+ Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz MIMO (Ant 6 /Chain0+Ant 5 /Chain1)+ BT(Ant 6 /Chain0) + FR1	No	No	No	No
	UMTS/LTE + WLAN 5GHz / WiFi6E MIMO (Ant 6 /Chain0+Ant 5 /Chain1)+ BT(Ant 6 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz MIMO (Ant 6 /Chain0+Ant 5 /Chain1)+ BT(Ant 5 /Chain1) + FR1	No	No	No	No
	UMTS/LTE + WLAN 5GHz / WiFi6E MIMO (Ant 6 /Chain0+Ant 5 /Chain1)+ BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 6 /Chain0)+ WLAN 5GHz / WiFi6E (Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 6 /Chain0)+ WLAN 2.4GHz (Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 6 /Chain0)+ WLAN 5GHz / WiFi6E (Ant 5 /Chain1)+ BT(Ant 6 /Chain0) + FR1	No	No	No	No
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 6 /Chain0)+ WLAN 2.4GHz (Ant 5 /Chain1)+ BT(Ant 6 /Chain0) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 2.4GHz (Ant 6 /Chain0)+ WLAN 5GHz / WiFi6E (Ant 5 /Chain1)+ BT(Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes
	UMTS/LTE + WLAN 5GHz / WiFi6E (Ant 6 /Chain0)+ WLAN 2.4GHz (Ant 5 /Chain1)+ BT(Ant 5 /Chain1) + FR1	No	No	No	No
	UMTS/LTE + WLAN 2.4GHz MIMO (Ant 6 /Chain0+Ant 5 /Chain1)+ WLAN 5GHz / WiFi6E MIMO (Ant 6 /Chain0+Ant 5 /Chain1) + FR1	Yes	Yes	Yes	Yes

General Note:

- For UMTS will not transmit simultaneous with 5G FR1.
- This device WLAN 2.4GHz / U-NII 1 / U-NII 4 supports Hotspot operation and Bluetooth support tethering applications.
- For WLAN5GHz and WiFi 6E is choose the worse case results from each transmit antenna to do Sim-Tx analysis, therefore, following summations represent the absolute worst cases for simultaneous transmission with WLAN 5GHz and WiFi 6E.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.



14. General Simultaneous Transmission analysis

14.1 Head Exposure Conditions

<WWAN Transmit with WiFi BT Normal Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 4	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 4+5	Max 5GHz WLAN / WiFi 6E Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
GSM850_Ant 0 GPRS 2TX	Right Cheek	0.222	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.539	0.530	0.587	0.483	0.504	0.368	0.448
	Right Tilted	0.068	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.378	0.266	0.302	0.318	0.258	0.211	0.203
	Left Cheek	0.064	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.832	0.505	0.662	0.613	0.462	0.306	0.423
	Left Tilted	0.058	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.434	0.335	0.459	0.437	0.299	0.253	0.272
GSM850_Ant 2 GPRS 2TX	Right Cheek	0.655	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.972	0.963	1.020	0.916	0.937	0.801	0.881
	Right Tilted	0.373	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.683	0.571	0.607	0.623	0.563	0.516	0.508
	Left Cheek	0.592	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.360	1.033	1.190	1.141	0.990	0.834	0.951
	Left Tilted	0.510	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.886	0.787	0.911	0.889	0.751	0.705	0.724
GSM1900_Ant 1 GPRS 2TX	Right Cheek	0.060	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.377	0.368	0.425	0.321	0.342	0.206	0.286
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.078	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.846	0.519	0.676	0.627	0.476	0.320	0.437
	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
WCDMA II_Ant 1	Right Cheek	0.110	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.427	0.418	0.475	0.371	0.392	0.256	0.336
	Right Tilted	0.065	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.375	0.263	0.299	0.315	0.255	0.208	0.200
	Left Cheek	0.108	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.876	0.549	0.706	0.657	0.506	0.350	0.467
	Left Tilted	0.063	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.439	0.340	0.464	0.442	0.304	0.258	0.277
WCDMA IV_Ant 1	Right Cheek	0.104	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.421	0.412	0.469	0.365	0.386	0.250	0.330
	Right Tilted	0.070	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.380	0.268	0.304	0.320	0.260	0.213	0.205
	Left Cheek	0.162	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.930	0.603	0.760	0.711	0.560	0.404	0.521
	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
WCDMA V_Ant 0	Right Cheek	0.084	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.401	0.392	0.449	0.345	0.366	0.230	0.310
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.769	0.442	0.599	0.550	0.399	0.243	0.360
	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
WCDMA V_Ant 2	Right Cheek	0.356	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.673	0.664	0.721	0.617	0.638	0.502	0.582
	Right Tilted	0.254	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.564	0.452	0.488	0.504	0.444	0.397	0.389
	Left Cheek	0.503	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.271	0.944	1.101	1.052	0.901	0.745	0.862
	Left Tilted	0.247	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.623	0.524	0.648	0.626	0.488	0.442	0.461

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 4	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 4+5	Max 5GHz WLAN / WiFi 6E Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
LTE Band 7_Ant 1	Right Cheek	0.037	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.354	0.345	0.402	0.298	0.319	0.183	0.263
	Right Tilted	0.039	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.349	0.237	0.273	0.289	0.229	0.182	0.174
	Left Cheek	0.060	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.828	0.501	0.658	0.609	0.458	0.302	0.419
	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
LTE Band 12 / 17_Ant 0	Right Cheek	0.090	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.407	0.398	0.455	0.351	0.372	0.236	0.316
	Right Tilted	0.038	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.348	0.236	0.272	0.288	0.228	0.181	0.173
	Left Cheek	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.811	0.484	0.641	0.592	0.441	0.285	0.402
	Left Tilted	0.034	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.410	0.311	0.435	0.413	0.275	0.229	0.248
LTE Band 12 / 17_Ant 2	Right Cheek	0.343	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.660	0.651	0.708	0.604	0.625	0.489	0.569
	Right Tilted	0.240	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.550	0.438	0.474	0.490	0.430	0.383	0.375
	Left Cheek	0.363	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.131	0.804	0.961	0.912	0.761	0.605	0.722
	Left Tilted	0.262	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.638	0.539	0.663	0.641	0.503	0.457	0.476
LTE Band 13_Ant 0	Right Cheek	0.105	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.422	0.413	0.470	0.366	0.387	0.251	0.331
	Right Tilted	0.055	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.365	0.253	0.289	0.305	0.245	0.198	0.190



FCC SAR TEST REPORT

Report No. : FA082114A

LTE Band 13_Ant 2	Left Cheek	0.061	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.829	0.502	0.659	0.610	0.459	0.303	0.420
	Left Tilted	0.045	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.421	0.322	0.446	0.424	0.286	0.240	0.259
	Right Cheek	0.686	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	1.003	0.994	1.051	0.947	0.968	0.832	0.912
	Right Tilted	0.541	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.851	0.739	0.775	0.791	0.731	0.684	0.676
	Left Cheek	0.648	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.416	1.089	1.246	1.197	1.046	0.890	1.007
LTE Band 25 / 2_Ant 1	Left Tilted	0.535	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.911	0.812	0.936	0.914	0.776	0.730	0.749
	Right Cheek	0.122	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.439	0.430	0.487	0.383	0.404	0.268	0.348
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.078	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.846	0.519	0.676	0.627	0.476	0.320	0.437
	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
LTE Band 26 / 5_Ant 0	Right Cheek	0.125	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.442	0.433	0.490	0.386	0.407	0.271	0.351
	Right Tilted	0.058	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.368	0.256	0.292	0.308	0.248	0.201	0.193
	Left Cheek	0.052	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.820	0.493	0.650	0.601	0.450	0.294	0.411
	Left Tilted	0.050	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.426	0.327	0.451	0.429	0.291	0.245	0.264
	Right Cheek	0.641	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.958	0.949	1.006	0.902	0.923	0.787	0.867
LTE Band 26 / 5_Ant 2	Right Tilted	0.459	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.769	0.657	0.693	0.709	0.649	0.602	0.594
	Left Cheek	0.602	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.370	1.043	1.200	1.151	1.000	0.844	0.961
	Left Tilted	0.482	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.858	0.759	0.883	0.861	0.723	0.677	0.696
	Right Cheek	0.053	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.370	0.361	0.418	0.314	0.335	0.199	0.279
	Right Tilted	0.018	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.328	0.216	0.252	0.268	0.208	0.161	0.153
LTE Band 30_Ant 1	Left Cheek	0.068	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.836	0.509	0.666	0.617	0.466	0.310	0.427
	Left Tilted	0.021	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.397	0.298	0.422	0.400	0.262	0.216	0.235
	Right Cheek	0.021	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.338	0.329	0.386	0.282	0.303	0.167	0.247
	Right Tilted	0.016	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.326	0.214	0.250	0.266	0.206	0.159	0.151
	Left Cheek	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.811	0.484	0.641	0.592	0.441	0.285	0.402
LTE Band 41 / 38_Ant 1	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.503	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.820	0.811	0.868	0.764	0.785	0.649	0.729
	Right Tilted	0.140	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.450	0.338	0.374	0.390	0.330	0.283	0.275
	Left Cheek	0.345	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.113	0.786	0.943	0.894	0.743	0.587	0.704
	Left Tilted	0.091	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.467	0.368	0.492	0.470	0.332	0.286	0.305
LTE Band 48 / 42_Ant 9	Right Cheek	0.001	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.318	0.309	0.366	0.262	0.283	0.147	0.227
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.769	0.442	0.599	0.550	0.399	0.243	0.360
	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.050	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.367	0.358	0.415	0.311	0.332	0.196	0.276
LTE Band 48 / 42_Ant 11	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.769	0.442	0.599	0.550	0.399	0.243	0.360
	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.034	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.802	0.475	0.632	0.583	0.432	0.276	0.393
	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
LTE Band 66 / 4_Ant 1	Right Cheek	0.070	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.387	0.378	0.435	0.331	0.352	0.216	0.296
	Right Tilted	0.036	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.346	0.234	0.270	0.286	0.226	0.179	0.171
	Left Cheek	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.811	0.484	0.641	0.592	0.441	0.285	0.402
	Left Tilted	0.028	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.404	0.305	0.429	0.407	0.269	0.223	0.242
	Right Cheek	0.575	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.892	0.883	0.940	0.836	0.857	0.721	0.801
LTE Band 71_Ant 0	Right Tilted	0.417	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.727	0.615	0.651	0.667	0.607	0.560	0.552
	Left Cheek	0.521	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.289	0.962	1.119	1.070	0.919	0.763	0.880
	Left Tilted	0.439	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.815	0.716	0.840	0.818	0.680	0.634	0.653
	Right Cheek	0.001	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.318	0.309	0.366	0.262	0.283	0.147	0.227
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
LTE Band 71_Ant 2	Left Cheek	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.769	0.442	0.599	0.550	0.399	0.243	0.360
	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.001	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.318	0.309	0.366	0.262	0.283	0.147	0.227
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.034	0.350	0.088	0.358	0.090	0.371	0.397</									



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FR1 n12_Ant 0	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.093	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.410	0.401	0.458	0.354	0.375	0.239	0.319
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.054	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.822	0.495	0.652	0.603	0.452	0.296	0.413
FR1 n12_Ant 2	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.542	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.859	0.850	0.907	0.803	0.824	0.688	0.768
	Right Tilted	0.365	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.675	0.563	0.599	0.615	0.555	0.508	0.500
	Left Cheek	0.491	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.259	0.932	1.089	1.040	0.889	0.733	0.850
FR1 n25 / 2_Ant 1	Left Tilted	0.414	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.790	0.691	0.815	0.793	0.655	0.609	0.628
	Right Cheek	0.092	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.409	0.400	0.457	0.353	0.374	0.238	0.318
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.088	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.856	0.529	0.686	0.637	0.486	0.330	0.447
FR1 n38_Ant 9	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.632	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.949	0.940	0.997	0.893	0.914	0.778	0.858
	Right Tilted	0.205	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.515	0.403	0.439	0.455	0.395	0.348	0.340
	Left Cheek	0.472	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.240	0.913	1.070	1.021	0.870	0.714	0.831
FR1 n38_Ant 11	Left Tilted	0.124	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.500	0.401	0.525	0.503	0.365	0.319	0.338
	Right Cheek	0.006	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.323	0.314	0.371	0.267	0.288	0.152	0.232
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.769	0.442	0.599	0.550	0.399	0.243	0.360
FR1 n41_Ant 9	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.696	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	1.013	1.004	1.061	0.957	0.978	0.842	0.922
	Right Tilted	0.113	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.423	0.311	0.347	0.363	0.303	0.256	0.248
	Left Cheek	0.229	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.997	0.670	0.827	0.778	0.627	0.471	0.588
FR1 n41_Ant 11	Left Tilted	0.068	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.444	0.345	0.469	0.447	0.309	0.263	0.282
	Right Cheek	0.004	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.321	0.312	0.369	0.265	0.286	0.150	0.230
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.769	0.442	0.599	0.550	0.399	0.243	0.360
FR1 n66_Ant 1	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.039	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.356	0.347	0.404	0.300	0.321	0.185	0.265
	Right Tilted	0.012	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.322	0.210	0.246	0.262	0.202	0.155	0.147
	Left Cheek	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.769	0.442	0.599	0.550	0.399	0.243	0.360
FR1 n71_Ant 0	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.109	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.426	0.417	0.474	0.370	0.391	0.255	0.335
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.098	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.866	0.539	0.696	0.647	0.496	0.340	0.457
FR1 n71_Ant 2	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.154	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.471	0.462	0.519	0.415	0.436	0.300	0.380
	Right Tilted	0.097	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.407	0.295	0.331	0.347	0.287	0.240	0.232
	Left Cheek	0.248	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.016	0.689	0.846	0.797	0.646	0.490	0.607
FR1 n77 / 78_Ant 9	Left Tilted	0.107	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.483	0.384	0.508	0.486	0.348	0.302	0.321
	Right Cheek	0.699	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	1.016	1.007	1.064	0.960	0.981	0.845	0.925
	Right Tilted	0.234	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.544	0.432	0.468	0.484	0.424	0.377	0.369
	Left Cheek	0.480	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.248	0.921	1.078	1.029	0.878	0.722	0.839
FR1 n77 / 78_Ant 11	Left Tilted	0.135	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.511	0.412	0.536	0.514	0.376	0.330	0.349
	Right Cheek	0.001	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.318	0.309	0.366	0.262	0.283	0.147	0.227
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.769	0.442	0.599	0.550	0.399	0.243	0.360
FR1 n77 / 78_Ant 11	Left Tilted	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	Right Cheek	0.001	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.318	0.309	0.366	0.262	0.283	0.147	0.227
	Right Tilted	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
	Left Cheek	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.769	0.442	0.599	0.550	0.399	0.243	0.360



<5G FR1 UL MIMO Transmit with WiFi BT Normal Mode>

WWAN Band	Exposure Position	0	0	1	1	2	3	4	5	6	7	8	9	0+1 Summed 1g SAR (W/kg)	0+1 Summed 1g SAR (W/kg)	0+1+6+7 Summed 1g SAR (W/kg)	0+1+2+5+9 Summed 1g SAR (W/kg)	0+1+3+4+8 Summed 1g SAR (W/kg)	0+1+7+8 Summed 1g SAR (W/kg)	0+1+7+9 Summed 1g SAR (W/kg)	0+1+5+8 Summed 1g SAR (W/kg)	0+1+4+9 Summed 1g SAR (W/kg)	
		n41_ULMIMO Ant 9 / 11	n41_ULMIMO + WLAN Max. Ant 9 / 11	n41_ULMIMO Ant 1 / 3	n41_ULMIMO + WLAN Max. Ant 1 / 3	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 4	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 4+5	Max 5GHz WLAN / WiFi 6E Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5										
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)										
n41_Ant 9	n41_Ant 1	Right Cheek	0.963	0.405	0.001	0.001	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.964	0.406	0.723	0.714	0.771	0.667	0.688	0.552	0.632
		Right Tilted	0.125	0.053	0.001	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.126	0.054	0.364	0.252	0.288	0.304	0.244	0.197	0.189
		Left Cheek	0.321	0.136	0.001	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.322	0.137	0.905	0.578	0.735	0.686	0.535	0.379	0.496
		Left Tilted	0.088	0.037	0.001	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.089	0.038	0.414	0.315	0.439	0.417	0.279	0.233	0.252
	n41_Ant 3	Right Cheek	0.963	0.405	0.377	0.152	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	1.340	0.557	0.874	0.865	0.922	0.818	0.839	0.703	0.783
		Right Tilted	0.125	0.053	0.453	0.193	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.578	0.246	0.556	0.444	0.480	0.496	0.436	0.389	0.381
		Left Cheek	0.321	0.136	0.425	0.174	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.746	0.310	1.078	0.751	0.908	0.859	0.708	0.552	0.669
		Left Tilted	0.088	0.037	0.384	0.157	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.472	0.194	0.570	0.471	0.595	0.573	0.435	0.389	0.408
n41_Ant 11	n41_Ant 1	Right Cheek	0.001	0.001	0.001	0.001	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.001	0.001	0.318	0.309	0.366	0.262	0.283	0.147	0.227
		Right Tilted	0.001	0.001	0.001	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.001	0.001	0.311	0.199	0.235	0.251	0.191	0.144	0.136
		Left Cheek	0.001	0.001	0.001	0.001	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.001	0.001	0.769	0.442	0.599	0.550	0.399	0.243	0.360
		Left Tilted	0.001	0.001	0.001	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.001	0.001	0.377	0.278	0.402	0.380	0.242	0.196	0.215
	n41_Ant 3	Right Cheek	0.001	0.001	0.377	0.152	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.378	0.153	0.470	0.461	0.518	0.414	0.435	0.299	0.379
		Right Tilted	0.001	0.001	0.453	0.193	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.454	0.194	0.504	0.392	0.428	0.444	0.384	0.337	0.329
		Left Cheek	0.001	0.001	0.425	0.174	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.426	0.175	0.943	0.616	0.773	0.724	0.573	0.417	0.534
		Left Tilted	0.001	0.001	0.384	0.157	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.385	0.158	0.534	0.435	0.559	0.537	0.399	0.353	0.372



14.2 Hotspot Exposure Conditions

<WWAN Transmit with WiFi BT Normal Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)	
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 4	5GHz WLAN Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5								
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
GSM850_Ant 0 GPRS 2TX	Front	0.280	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.757	0.713	0.797	0.564	0.542	0.577	0.456	
	Back	0.613	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.242	1.239	1.168	1.108	1.067	1.059	0.841	
	Left side	0.054										0.054	0.054	0.054	0.054	0.054	0.054	
	Right side	0.099	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.805	0.616	0.657	0.509	0.518	0.454	0.270	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.267										0.267	0.267	0.267	0.267	0.267	0.267	0.267
GSM850_Ant 2 GPRS 2TX	Front	0.646	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	1.123	1.079	1.163	0.930	0.908	0.943	0.822	
	Back	0.462	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.091	1.088	1.017	0.957	0.916	0.908	0.690	
	Left side	0.077										0.077	0.077	0.077	0.077	0.077	0.077	
	Right side	0.195	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.901	0.712	0.753	0.605	0.614	0.550	0.366	
	Top side	0.356	0.215		0.056		0.364	0.073	0.084			0.793	0.571	0.496	0.513	0.429	0.440	0.412
	Bottom side	0.001										0.001	0.001	0.001	0.001	0.001	0.001	
GSM1900_Ant 1 GPRS 2TX	Front	0.239	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.716	0.672	0.756	0.523	0.501	0.536	0.415	
	Back	0.344	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.973	0.970	0.899	0.839	0.798	0.790	0.572	
	Left side	0.294										0.294	0.294	0.294	0.294	0.294	0.294	
	Right side	0.042	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.748	0.559	0.600	0.452	0.461	0.397	0.213	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.813										0.813	0.813	0.813	0.813	0.813	0.813	0.813
GSM1900_Ant 8 GPRS 2TX	Front	0.307	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.784	0.740	0.824	0.591	0.569	0.604	0.483	
	Back	0.293	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.922	0.919	0.848	0.788	0.747	0.739	0.521	
	Left side	0.980										0.980	0.980	0.980	0.980	0.980	0.980	
	Right side	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.707	0.518	0.559	0.411	0.420	0.356	0.172	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.055										0.055	0.055	0.055	0.055	0.055	0.055	0.055
WCDMA II_Ant 1	Front	0.339	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.816	0.772	0.856	0.623	0.601	0.636	0.515	
	Back	0.472	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.101	1.098	1.027	0.967	0.926	0.918	0.700	
	Left side	0.404										0.404	0.404	0.404	0.404	0.404	0.404	
	Right side	0.050	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.756	0.567	0.608	0.460	0.469	0.405	0.221	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.913										0.913	0.913	0.913	0.913	0.913	0.913	0.913
WCDMA II_Ant 8	Front	0.431	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.908	0.864	0.948	0.715	0.693	0.728	0.607	
	Back	0.397	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.026	1.023	0.952	0.892	0.851	0.843	0.625	
	Left side	0.923										0.923	0.923	0.923	0.923	0.923	0.923	
	Right side	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.707	0.518	0.559	0.411	0.420	0.356	0.172	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.041										0.041	0.041	0.041	0.041	0.041	0.041	0.041
WCDMA IV_Ant 1	Front	0.422	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.899	0.855	0.939	0.706	0.684	0.719	0.598	
	Back	0.573	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.202	1.199	1.128	1.068	1.027	1.019	0.801	
	Left side	0.376										0.376	0.376	0.376	0.376	0.376	0.376	
	Right side	0.126	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.832	0.643	0.684	0.536	0.545	0.481	0.297	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.966										0.966	0.966	0.966	0.966	0.966	0.966	0.966
WCDMA IV_Ant 8	Front	0.465	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.942	0.898	0.982	0.749	0.727	0.762	0.641	
	Back	0.406	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.035	1.032	0.961	0.901	0.860	0.852	0.634	
	Left side	0.919										0.919	0.919	0.919	0.919	0.919	0.919	
	Right side	0.023	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.729	0.540	0.581	0.433	0.442	0.378	0.194	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.295										0.295	0.295	0.295	0.295	0.295	0.295	0.295
WCDMA V_Ant 0	Front	0.386	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.863	0.819	0.903	0.670	0.648	0.683	0.562	
	Back	0.618	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.247	1.244	1.173	1.113	1.072	1.064	0.846	
	Left side	0.087										0.087	0.087	0.087	0.087	0.087	0.087	
	Right side	0.113	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.819	0.630	0.671	0.523	0.532	0.468	0.284	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.336										0.336	0.336	0.336	0.336	0.336	0.336	0.336
WCDMA	Front	0.248	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.725	0.681	0.765	0.532	0.510	0.545	0.424	



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V_Ant 2	Back	0.197	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.826	0.823	0.752	0.692	0.651	0.643	0.425
	Left side	0.001									0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Right side	0.068	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.774	0.585	0.626	0.478	0.487	0.423	0.239
	Top side	0.148	0.215		0.056		0.364	0.073	0.084		0.585	0.363	0.288	0.305	0.221	0.232	0.204
	Bottom side	0.001									0.001	0.001	0.001	0.001	0.001	0.001	0.001

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 4	5GHz WLAN Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
LTE Band 7_Ant 1	Front	0.388	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.865	0.821	0.905	0.672	0.650	0.685	0.564
	Back	0.686	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.315	1.312	1.241	1.181	1.140	1.132	0.914
	Left side	0.525									0.525	0.525	0.525	0.525	0.525	0.525	0.525
	Right side	0.099	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.805	0.616	0.657	0.509	0.518	0.454	0.270
	Top side	0.001	0.215		0.056		0.364	0.073	0.084		0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	1.031									1.031	1.031	1.031	1.031	1.031	1.031	1.031
LTE Band 7_Ant 8	Front	0.534	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	1.011	0.967	1.051	0.818	0.796	0.831	0.710
	Back	0.537	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.166	1.163	1.092	1.032	0.991	0.983	0.765
	Left side	1.190									1.190	1.190	1.190	1.190	1.190	1.190	1.190
	Right side	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.707	0.518	0.559	0.411	0.420	0.356	0.172
	Top side	0.045	0.215		0.056		0.364	0.073	0.084		0.482	0.260	0.185	0.202	0.118	0.129	0.101
	Bottom side	0.118									0.118	0.118	0.118	0.118	0.118	0.118	0.118
LTE Band 12 / 17_Ant 0	Front	0.223	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.700	0.656	0.740	0.507	0.485	0.520	0.399
	Back	0.317	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.946	0.943	0.872	0.812	0.771	0.763	0.545
	Left side	0.063									0.063	0.063	0.063	0.063	0.063	0.063	0.063
	Right side	0.202	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.908	0.719	0.760	0.612	0.621	0.557	0.373
	Top side	0.001	0.215		0.056		0.364	0.073	0.084		0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.179									0.179	0.179	0.179	0.179	0.179	0.179	0.179
LTE Band 12 / 17_Ant 2	Front	0.089	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.566	0.522	0.606	0.373	0.351	0.386	0.265
	Back	0.076	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.705	0.702	0.631	0.571	0.530	0.522	0.304
	Left side	0.001									0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Right side	0.075	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.781	0.592	0.633	0.485	0.494	0.430	0.246
	Top side	0.065	0.215		0.056		0.364	0.073	0.084		0.502	0.280	0.205	0.222	0.138	0.149	0.121
	Bottom side	0.001									0.001	0.001	0.001	0.001	0.001	0.001	0.001
LTE Band 13_Ant 0	Front	0.380	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.857	0.813	0.897	0.664	0.642	0.677	0.556
	Back	0.515	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.144	1.141	1.070	1.010	0.969	0.961	0.743
	Left side	0.001									0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Right side	0.231	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.937	0.748	0.789	0.641	0.650	0.586	0.402
	Top side	0.001	0.215		0.056		0.364	0.073	0.084		0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.300									0.300	0.300	0.300	0.300	0.300	0.300	0.300
LTE Band 13_Ant 2	Front	0.367	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.844	0.800	0.884	0.651	0.629	0.664	0.543
	Back	0.311	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.940	0.937	0.866	0.806	0.765	0.757	0.539
	Left side	0.001									0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Right side	0.157	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.863	0.674	0.715	0.567	0.576	0.512	0.328
	Top side	0.244	0.215		0.056		0.364	0.073	0.084		0.681	0.459	0.384	0.401	0.317	0.328	0.300
	Bottom side	0.001									0.001	0.001	0.001	0.001	0.001	0.001	0.001
LTE Band 25 / 2_Ant 1	Front	0.401	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.878	0.834	0.918	0.685	0.663	0.698	0.577
	Back	0.527	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.156	1.153	1.082	1.022	0.981	0.973	0.755
	Left side	0.474									0.474	0.474	0.474	0.474	0.474	0.474	0.474
	Right side	0.060	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.766	0.577	0.618	0.470	0.479	0.415	0.231
	Top side	0.001	0.215		0.056		0.364	0.073	0.084		0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	1.069									1.069	1.069	1.069	1.069	1.069	1.069	1.069
LTE Band 25 / 2_Ant 8	Front	0.534	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	1.011	0.967	1.051	0.818	0.796	0.831	0.710
	Back	0.457	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.086	1.083	1.012	0.952	0.911	0.903	0.685
	Left side	1.174									1.174	1.174	1.174	1.174	1.174	1.174	1.174
	Right side	0.002	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.708	0.519	0.560	0.412	0.421	0.357	0.173
	Top side	0.064	0.215		0.056		0.364	0.073	0.084		0.501	0.279	0.204	0.221	0.137	0.148	0.120
	Bottom side	0.105									0.105	0.105	0.105	0.105	0.105	0.105	0.105
LTE Band 26 / 5_Ant 0	Front	0.433	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.910	0.866	0.950	0.717	0.695	0.730	0.609
	Back	0.545	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.174	1.171	1.100	1.040	0.999	0.991	0.773
	Left side	0.081									0.081	0.081	0.081	0.081	0.081	0.081	0.081



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	Right side	0.178	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.884	0.695	0.736	0.588	0.597	0.533	0.349	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084		0.438	0.216	0.141	0.158	0.074	0.085	0.057	
	Bottom side	0.405										0.405	0.405	0.405	0.405	0.405	0.405	
LTE Band 26 / 5_Ant 2	Front	0.351	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.828	0.784	0.868	0.635	0.613	0.648	0.527	
	Back	0.307	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.936	0.933	0.862	0.802	0.761	0.753	0.535	
	Left side	0.054										0.054	0.054	0.054	0.054	0.054	0.054	
	Right side	0.133	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.839	0.650	0.691	0.543	0.552	0.488	0.304	
	Top side	0.247	0.215		0.056		0.364	0.073	0.084			0.684	0.462	0.387	0.404	0.320	0.331	0.303
	Bottom side	0.001										0.001	0.001	0.001	0.001	0.001	0.001	
LTE Band 30_Ant 1	Front	0.367	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.844	0.800	0.884	0.651	0.629	0.664	0.543	
	Back	0.543	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.172	1.169	1.098	1.038	0.997	0.989	0.771	
	Left side	0.612										0.612	0.612	0.612	0.612	0.612	0.612	
	Right side	0.091	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.797	0.608	0.649	0.501	0.510	0.446	0.262	
	Top side	0.002	0.215		0.056		0.364	0.073	0.084			0.439	0.217	0.142	0.159	0.075	0.086	0.058
	Bottom side	1.161										1.161	1.161	1.161	1.161	1.161	1.161	
LTE Band 30_Ant 8	Front	0.538	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	1.015	0.971	1.055	0.822	0.800	0.835	0.714	
	Back	0.446	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.075	1.072	1.001	0.941	0.900	0.892	0.674	
	Left side	1.022										1.022	1.022	1.022	1.022	1.022	1.022	
	Right side	0.016	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.722	0.533	0.574	0.426	0.435	0.371	0.187	
	Top side	0.057	0.215		0.056		0.364	0.073	0.084			0.494	0.272	0.197	0.214	0.130	0.141	0.113
	Bottom side	0.122										0.122	0.122	0.122	0.122	0.122	0.122	
LTE Band 41 / 38_Ant 1	Front	0.349	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.826	0.782	0.866	0.633	0.611	0.646	0.525	
	Back	0.682	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.311	1.308	1.237	1.177	1.136	1.128	0.910	
	Left side	0.563										0.563	0.563	0.563	0.563	0.563	0.563	
	Right side	0.068	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.774	0.585	0.626	0.478	0.487	0.423	0.239	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.913										0.913	0.913	0.913	0.913	0.913	0.913	
LTE Band 41 / 38_Ant 8	Front	0.428	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.905	0.861	0.945	0.712	0.690	0.725	0.604	
	Back	0.418	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.047	1.044	0.973	0.913	0.872	0.864	0.646	
	Left side	0.994										0.994	0.994	0.994	0.994	0.994	0.994	
	Right side	0.063	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.769	0.580	0.621	0.473	0.482	0.418	0.234	
	Top side	0.002	0.215		0.056		0.364	0.073	0.084			0.439	0.217	0.142	0.159	0.075	0.086	0.058
	Bottom side	0.070										0.070	0.070	0.070	0.070	0.070	0.070	
LTE Band 48 / 42_Ant 9	Front	0.113	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.590	0.546	0.630	0.397	0.375	0.410	0.289	
	Back	0.203	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.832	0.829	0.758	0.698	0.657	0.649	0.431	
	Left side	0.407										0.407	0.407	0.407	0.407	0.407	0.407	
	Right side	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.707	0.518	0.559	0.411	0.420	0.356	0.172	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.001										0.001	0.001	0.001	0.001	0.001	0.001	
LTE Band 48 / 42_Ant 11	Front	0.001	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.478	0.434	0.518	0.285	0.263	0.298	0.177	
	Back	0.483	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.112	1.109	1.038	0.978	0.937	0.929	0.711	
	Left side	0.001										0.001	0.001	0.001	0.001	0.001	0.001	
	Right side	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.707	0.518	0.559	0.411	0.420	0.356	0.172	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.001										0.001	0.001	0.001	0.001	0.001	0.001	
LTE Band 66 / 4_Ant 1	Front	0.291	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.768	0.724	0.808	0.575	0.553	0.588	0.467	
	Back	0.411	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.040	1.037	0.966	0.906	0.865	0.857	0.639	
	Left side	0.320										0.320	0.320	0.320	0.320	0.320	0.320	
	Right side	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.707	0.518	0.559	0.411	0.420	0.356	0.172	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.623										0.623	0.623	0.623	0.623	0.623	0.623	
LTE Band 66 / 4_Ant 8	Front	0.456	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.933	0.889	0.973	0.740	0.718	0.753	0.632	
	Back	0.408	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.037	1.034	0.963	0.903	0.862	0.854	0.636	
	Left side	1.122										1.122	1.122	1.122	1.122	1.122	1.122	
	Right side	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.707	0.518	0.559	0.411	0.420	0.356	0.172	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084			0.438	0.216	0.141	0.158	0.074	0.085	0.057
	Bottom side	0.073										0.073	0.073	0.073	0.073	0.073	0.073	
LTE Band 71_Ant 0	Front	0.183	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.660	0.616	0.700	0.467	0.445	0.480	0.359	
	Back	0.271	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.900	0.897	0.826	0.766	0.725	0.717	0.499	
	Left side	0.058										0.058	0.058	0.058	0.058	0.058	0.058	



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	Right side	0.156	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.862	0.673	0.714	0.566	0.575	0.511	0.327	
	Top side	0.001	0.215		0.056		0.364	0.073	0.084		0.438	0.216	0.141	0.158	0.074	0.085	0.057	
	Bottom side	0.149										0.149	0.149	0.149	0.149	0.149	0.149	
LTE Band 71_Ant 2	Front	0.174	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.651	0.607	0.691	0.458	0.436	0.471	0.350	
	Back	0.137	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.766	0.763	0.692	0.632	0.591	0.583	0.365	
	Left side	0.001										0.001	0.001	0.001	0.001	0.001	0.001	
	Right side	0.093	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.799	0.610	0.651	0.503	0.512	0.448	0.264	
	Top side	0.121	0.215		0.056		0.364	0.073	0.084			0.558	0.336	0.261	0.278	0.194	0.205	0.177
	Bottom side	0.001										0.001	0.001	0.001	0.001	0.001	0.001	0.001

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)	
		NR	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 4	5GHz WLAN Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n5_Ant 0	Front	0.225	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.702	0.658	0.742	0.509	0.487	0.522	0.401	
	Back	0.326	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.955	0.952	0.881	0.821	0.780	0.772	0.554	
	Left side	0.001										0.001	0.001	0.001	0.001	0.001	0.001	
	Right side	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.707	0.518	0.559	0.411	0.420	0.356	0.172	
	Top side		0.215		0.056		0.364	0.073	0.084			0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side	0.234										0.234	0.234	0.234	0.234	0.234	0.234	0.234
FR1 n5_Ant 2	Front	0.357	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.834	0.790	0.874	0.641	0.619	0.654	0.533	
	Back	0.353	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.982	0.979	0.908	0.848	0.807	0.799	0.581	
	Left side	0.002										0.002	0.002	0.002	0.002	0.002	0.002	
	Right side	0.155	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.861	0.672	0.713	0.565	0.574	0.510	0.326	
	Top side	0.228	0.215		0.056		0.364	0.073	0.084			0.665	0.443	0.368	0.385	0.301	0.312	0.284
	Bottom side											0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n7_Ant 1	Front	0.385	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.862	0.818	0.902	0.669	0.647	0.682	0.561	
	Back	0.660	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.289	1.286	1.215	1.155	1.114	1.106	0.888	
	Left side	0.536										0.536	0.536	0.536	0.536	0.536	0.536	
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171	
	Top side		0.215		0.056		0.364	0.073	0.084			0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side	0.915										0.915	0.915	0.915	0.915	0.915	0.915	0.915
FR1 n7_Ant 8	Front	0.447	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.924	0.880	0.964	0.731	0.709	0.744	0.623	
	Back	0.465	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.094	1.091	1.020	0.960	0.919	0.911	0.693	
	Left side	0.774										0.774	0.774	0.774	0.774	0.774	0.774	
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171	
	Top side		0.215		0.056		0.364	0.073	0.084			0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side											0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n12_Ant 0	Front	0.252	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.729	0.685	0.769	0.536	0.514	0.549	0.428	
	Back	0.417	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.046	1.043	0.972	0.912	0.871	0.863	0.645	
	Left side	0.084										0.084	0.084	0.084	0.084	0.084	0.084	
	Right side	0.193	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.899	0.710	0.751	0.603	0.612	0.548	0.364	
	Top side		0.215		0.056		0.364	0.073	0.084			0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side	0.222										0.222	0.222	0.222	0.222	0.222	0.222	0.222
FR1 n12_Ant 2	Front	0.156	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.633	0.589	0.673	0.440	0.418	0.453	0.332	
	Back	0.159	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.788	0.785	0.714	0.654	0.613	0.605	0.387	
	Left side	0.001										0.001	0.001	0.001	0.001	0.001	0.001	
	Right side	0.096	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.802	0.613	0.654	0.506	0.515	0.451	0.267	
	Top side	0.099	0.215		0.056		0.364	0.073	0.084			0.536	0.314	0.239	0.256	0.172	0.183	0.155
	Bottom side											0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n25 / 2_Ant 1	Front	0.436	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.913	0.869	0.953	0.720	0.698	0.733	0.612	
	Back	0.587	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.216	1.213	1.142	1.082	1.041	1.033	0.815	
	Left side	0.520										0.520	0.520	0.520	0.520	0.520	0.520	
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171	
	Top side		0.215		0.056		0.364	0.073	0.084			0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side	1.179										1.179	1.179	1.179	1.179	1.179	1.179	1.179
FR1 n25 / 2_Ant 8	Front	0.480	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.957	0.913	0.997	0.764	0.742	0.777	0.656	
	Back	0.400	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.029	1.026	0.955	0.895	0.854	0.846	0.628	
	Left side	1.140										1.140	1.140	1.140	1.140	1.140	1.140	
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171	
	Top side		0.215		0.056		0.364	0.073	0.084			0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side											0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n38_Ant 9	Front	0.430	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.907	0.863	0.947	0.714	0.692	0.727	0.606	



FCC SAR TEST REPORT

Report No. : FA082114A

	Back	0.296	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.925	0.922	0.851	0.791	0.750	0.742	0.524
	Left side	0.929									0.929	0.929	0.929	0.929	0.929	0.929	0.929
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171
	Top side		0.215		0.056		0.364	0.073	0.084		0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side										0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n38_Ant 11	Front	0.001	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.478	0.434	0.518	0.285	0.263	0.298	0.177
	Back	0.614	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.243	1.240	1.169	1.109	1.068	1.060	0.842
	Left side	0.070									0.070	0.070	0.070	0.070	0.070	0.070	0.070
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171
	Top side		0.215		0.056		0.364	0.073	0.084		0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side	0.125									0.125	0.125	0.125	0.125	0.125	0.125	0.125
FR1 n41_Ant 9	Front	0.393	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.870	0.826	0.910	0.677	0.655	0.690	0.569
	Back	0.277	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.906	0.903	0.832	0.772	0.731	0.723	0.505
	Left side	1.148									1.148	1.148	1.148	1.148	1.148	1.148	1.148
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171
	Top side		0.215		0.056		0.364	0.073	0.084		0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side										0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n41_Ant 11	Front	0.001	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.478	0.434	0.518	0.285	0.263	0.298	0.177
	Back	0.634	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.263	1.260	1.189	1.129	1.088	1.080	0.862
	Left side	0.069									0.069	0.069	0.069	0.069	0.069	0.069	0.069
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171
	Top side		0.215		0.056		0.364	0.073	0.084		0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side	0.133									0.133	0.133	0.133	0.133	0.133	0.133	0.133
FR1 n66_Ant 1	Front	0.289	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.766	0.722	0.806	0.573	0.551	0.586	0.465
	Back	0.380	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.009	1.006	0.935	0.875	0.834	0.826	0.608
	Left side	0.327									0.327	0.327	0.327	0.327	0.327	0.327	0.327
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171
	Top side		0.215		0.056		0.364	0.073	0.084		0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side	0.482									0.482	0.482	0.482	0.482	0.482	0.482	0.482
FR1 n66_Ant 8	Front	0.376	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.853	0.809	0.893	0.660	0.638	0.673	0.552
	Back	0.316	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.945	0.942	0.871	0.811	0.770	0.762	0.544
	Left side	0.934									0.934	0.934	0.934	0.934	0.934	0.934	0.934
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171
	Top side		0.215		0.056		0.364	0.073	0.084		0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side										0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n71_Ant 0	Front	0.240	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.717	0.673	0.757	0.524	0.502	0.537	0.416
	Back	0.359	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.988	0.985	0.914	0.854	0.813	0.805	0.587
	Left side	0.076									0.076	0.076	0.076	0.076	0.076	0.076	0.076
	Right side	0.152	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.858	0.669	0.710	0.562	0.571	0.507	0.323
	Top side		0.215		0.056		0.364	0.073	0.084		0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side	0.195									0.195	0.195	0.195	0.195	0.195	0.195	0.195
FR1 n71_Ant 2	Front	0.040	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.517	0.473	0.557	0.324	0.302	0.337	0.216
	Back	0.015	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.644	0.641	0.570	0.510	0.469	0.461	0.243
	Left side	0.001									0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Right side	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.707	0.518	0.559	0.411	0.420	0.356	0.172
	Top side	0.022	0.215		0.056		0.364	0.073	0.084		0.459	0.237	0.162	0.179	0.095	0.106	0.078
	Bottom side										0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n77 / 78_Ant 9	Front	0.276	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.753	0.709	0.793	0.560	0.538	0.573	0.452
	Back	0.261	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.890	0.887	0.816	0.756	0.715	0.707	0.489
	Left side	0.592									0.592	0.592	0.592	0.592	0.592	0.592	0.592
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171
	Top side		0.215		0.056		0.364	0.073	0.084		0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side										0.000	0.000	0.000	0.000	0.000	0.000	0.000
FR1 n77 / 78_Ant 11	Front	0.041	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.518	0.474	0.558	0.325	0.303	0.338	0.217
	Back	0.585	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	1.214	1.211	1.140	1.080	1.039	1.031	0.813
	Left side	0.066									0.066	0.066	0.066	0.066	0.066	0.066	0.066
	Right side		0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.706	0.517	0.558	0.410	0.419	0.355	0.171
	Top side		0.215		0.056		0.364	0.073	0.084		0.437	0.215	0.140	0.157	0.073	0.084	0.056
	Bottom side	0.080									0.080	0.080	0.080	0.080	0.080	0.080	0.080



<5G FR1 UL MIMO Transmit with WiFi BT Normal Mode>

WWAN Band	Exposure Position	0	1	2	3	4	5	6	7	8	9	0+1 Summed 1g SAR (W/kg)	0+1+6+7 Summed 1g SAR (W/kg)	0+1+2+5+9 Summed 1g SAR (W/kg)	0+1+3+4+8 Summed 1g SAR (W/kg)	0+1+7+8 Summed 1g SAR (W/kg)	0+1+7+9 Summed 1g SAR (W/kg)	0+1+5+8 Summed 1g SAR (W/kg)	0+1+4+9 Summed 1g SAR (W/kg)		
		n41_ULMIMO + WLAN Max. Ant 9 / 11	n41_ULMIMO + WLAN Max. Ant 1 / 3	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	5GHz WLAN Ant 4	5GHz WLAN Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5										
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)										
n41_Ant 9	n41_Ant 1	Front	0.265	0.239	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.504	0.981	0.937	1.021	0.788	0.766	0.801	0.680	
		Back	0.184	0.323	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.507	1.136	1.133	1.062	1.002	0.961	0.953	0.735	
		Left side	0.792	0.290										1.082	1.082	1.082	1.082	1.082	1.082	1.082	1.082
		Right side			0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.000	0.706	0.517	0.558	0.410	0.419	0.355	0.171	
		Top side			0.215		0.056		0.364	0.073	0.084		0.000	0.437	0.215	0.140	0.157	0.073	0.084	0.056	
		Bottom side		0.521										0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
	n41_Ant 3	Front	0.265	0.163	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.428	0.905	0.861	0.945	0.712	0.690	0.725	0.604	
		Back	0.184	0.215	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.399	1.028	1.025	0.954	0.894	0.853	0.845	0.627	
		Left side	0.792	0.001									0.793	0.793	0.793	0.793	0.793	0.793	0.793	0.793	
		Right side			0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.000	0.706	0.517	0.558	0.410	0.419	0.355	0.171	
		Top side		0.383	0.215		0.056		0.364	0.073	0.084		0.383	0.820	0.598	0.523	0.540	0.456	0.467	0.439	
		Bottom side											0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	n41_Ant 8	Front	0.265	0.001	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.266	0.743	0.699	0.783	0.550	0.528	0.563	0.442	
		Back	0.184	0.001	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.185	0.814	0.811	0.740	0.680	0.639	0.631	0.413	
		Left side	0.792	0.006									0.798	0.798	0.798	0.798	0.798	0.798	0.798	0.798	
		Right side			0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.000	0.706	0.517	0.558	0.410	0.419	0.355	0.171	
		Top side			0.215		0.056		0.364	0.073	0.084		0.000	0.437	0.215	0.140	0.157	0.073	0.084	0.056	
		Bottom side											0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	n41_Ant 11	n41_Ant 1	Front	0.001	0.239	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.240	0.717	0.673	0.757	0.524	0.502	0.537	0.416
			Back	0.372	0.323	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.695	1.324	1.321	1.250	1.190	1.149	1.141	0.923
			Left side	0.001	0.290									0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291
			Right side			0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.000	0.706	0.517	0.558	0.410	0.419	0.355	0.171
			Top side			0.215		0.056		0.364	0.073	0.084		0.000	0.437	0.215	0.140	0.157	0.073	0.084	0.056
			Bottom side	0.092	0.521									0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
n41_Ant 3		Front	0.001	0.163	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.164	0.641	0.597	0.681	0.448	0.426	0.461	0.340	
		Back	0.372	0.215	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.587	1.216	1.213	1.142	1.082	1.041	1.033	0.815	
		Left side	0.001	0.001									0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
		Right side			0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.000	0.706	0.517	0.558	0.410	0.419	0.355	0.171	
		Top side		0.383	0.215		0.056		0.364	0.073	0.084		0.383	0.820	0.598	0.523	0.540	0.456	0.467	0.439	
		Bottom side	0.092										0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	
n41_Ant 8		Front	0.001	0.001	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.002	0.479	0.435	0.519	0.286	0.264	0.299	0.178	
		Back	0.372	0.001	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.373	1.002	0.999	0.928	0.868	0.827	0.819	0.601	
		Left side	0.001	0.006									0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	
		Right side			0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.000	0.706	0.517	0.558	0.410	0.419	0.355	0.171	
		Top side			0.215		0.056		0.364	0.073	0.084		0.000	0.437	0.215	0.140	0.157	0.073	0.084	0.056	
		Bottom side	0.092										0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	



<WWAN Transmit with WiFi BT Camera Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 6	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	5GHz WLAN Ant 5	2.4GHz WLAN Ant 6+5	5GHz WLAN Ant 6+5	Bluetooth Ant 6	Bluetooth Ant 5							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
GSM850_Ant 0 GPRS 2TX	Front	0.280	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.532	0.692	0.620	0.363	0.423	0.510	0.426
	Back	0.613	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.266	1.044	1.280	1.066	1.063	0.862	1.029
	Left side	0.054	0.223		0.090	0.081	0.246	0.072	0.076		0.372	0.358	0.220	0.202	0.126	0.211	0.144
	Right side	0.099		0.396	0.048	0.271	0.342	0.067		0.090	0.508	0.460	0.543	0.166	0.256	0.370	0.237
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.267				0.056					0.267	0.323	0.267	0.267	0.267	0.323	0.267
GSM850_Ant 2 GPRS 2TX	Front	0.646	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.898	1.058	0.986	0.729	0.789	0.876	0.792
	Back	0.462	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.115	0.893	1.129	0.915	0.912	0.711	0.878
	Left side	0.077	0.223		0.090	0.081	0.246	0.072	0.076		0.395	0.381	0.243	0.225	0.149	0.234	0.167
	Right side	0.195		0.396	0.048	0.271	0.342	0.067		0.090	0.604	0.556	0.639	0.262	0.352	0.466	0.333
	Top side	0.356	0.001		0.071		0.117	0.075	0.001		0.548	0.357	0.428	0.432	0.431	0.357	0.427
	Bottom side	0.001				0.056					0.001	0.057	0.001	0.001	0.001	0.057	0.001
GSM1900_Ant 1 GPRS 2TX	Front	0.239	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.491	0.651	0.579	0.322	0.382	0.469	0.385
	Back	0.344	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.997	0.775	1.011	0.797	0.794	0.593	0.760
	Left side	0.294	0.223		0.090	0.081	0.246	0.072	0.076		0.612	0.598	0.460	0.442	0.366	0.451	0.384
	Right side	0.042		0.396	0.048	0.271	0.342	0.067		0.090	0.451	0.403	0.486	0.109	0.199	0.313	0.180
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.813				0.056					0.813	0.869	0.813	0.813	0.813	0.869	0.813
GSM1900_Ant 8 GPRS 2TX	Front	0.307	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.559	0.719	0.647	0.390	0.450	0.537	0.453
	Back	0.293	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.946	0.724	0.960	0.746	0.743	0.542	0.709
	Left side	0.980	0.223		0.090	0.081	0.246	0.072	0.076		1.298	1.284	1.146	1.128	1.052	1.137	1.070
	Right side	0.001		0.396	0.048	0.271	0.342	0.067		0.090	0.410	0.362	0.445	0.068	0.158	0.272	0.139
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.055				0.056					0.055	0.111	0.055	0.055	0.055	0.111	0.055
WCDMA II_Ant 1	Front	0.339	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.591	0.751	0.679	0.422	0.482	0.569	0.485
	Back	0.472	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.125	0.903	1.139	0.925	0.922	0.721	0.888
	Left side	0.404	0.223		0.090	0.081	0.246	0.072	0.076		0.722	0.708	0.570	0.552	0.476	0.561	0.494
	Right side	0.050		0.396	0.048	0.271	0.342	0.067		0.090	0.459	0.411	0.494	0.117	0.207	0.321	0.188
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.913				0.056					0.913	0.969	0.913	0.913	0.913	0.969	0.913
WCDMA II_Ant 8	Front	0.431	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.683	0.843	0.771	0.514	0.574	0.661	0.577
	Back	0.397	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.050	0.828	1.064	0.850	0.847	0.646	0.813
	Left side	0.923	0.223		0.090	0.081	0.246	0.072	0.076		1.241	1.227	1.089	1.071	0.995	1.080	1.013
	Right side	0.001		0.396	0.048	0.271	0.342	0.067		0.090	0.410	0.362	0.445	0.068	0.158	0.272	0.139
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.041				0.056					0.041	0.097	0.041	0.041	0.041	0.097	0.041
WCDMA IV_Ant 1	Front	0.422	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.674	0.834	0.762	0.505	0.565	0.652	0.568
	Back	0.573	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.226	1.004	1.240	1.026	1.023	0.822	0.989
	Left side	0.376	0.223		0.090	0.081	0.246	0.072	0.076		0.694	0.680	0.542	0.524	0.448	0.533	0.466
	Right side	0.126		0.396	0.048	0.271	0.342	0.067		0.090	0.535	0.487	0.570	0.193	0.283	0.397	0.264
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.966				0.056					0.966	1.022	0.966	0.966	0.966	1.022	0.966
WCDMA IV_Ant 8	Front	0.465	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.717	0.877	0.805	0.548	0.608	0.695	0.611
	Back	0.406	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.059	0.837	1.073	0.859	0.856	0.655	0.822
	Left side	0.919	0.223		0.090	0.081	0.246	0.072	0.076		1.237	1.223	1.085	1.067	0.991	1.076	1.009
	Right side	0.023		0.396	0.048	0.271	0.342	0.067		0.090	0.432	0.384	0.467	0.090	0.180	0.294	0.161
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.295				0.056					0.295	0.351	0.295	0.295	0.295	0.351	0.295
WCDMA V_Ant 0	Front	0.386	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.638	0.798	0.726	0.469	0.529	0.616	0.532
	Back	0.618	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.271	1.049	1.285	1.071	1.068	0.867	1.034
	Left side	0.087	0.223		0.090	0.081	0.246	0.072	0.076		0.405	0.391	0.253	0.235	0.159	0.244	0.177
	Right side	0.113		0.396	0.048	0.271	0.342	0.067		0.090	0.522	0.474	0.557	0.180	0.270	0.384	0.251
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.336				0.056					0.336	0.392	0.336	0.336	0.336	0.392	0.336
WCDMA V_Ant 2	Front	0.248	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.500	0.660	0.588	0.331	0.391	0.478	0.394
	Back	0.197	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.850	0.628	0.864	0.650	0.647	0.446	0.613
	Left side	0.001	0.223		0.090	0.081	0.246	0.072	0.076		0.319	0.305	0.167	0.149	0.073	0.158	0.091



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Right side	0.068		0.396	0.048	0.271	0.342	0.067		0.090	0.477	0.429	0.512	0.135	0.225	0.339	0.206
Top side	0.148	0.001		0.071		0.117	0.075	0.001		0.340	0.149	0.220	0.224	0.223	0.149	0.219
Bottom side	0.001				0.056					0.001	0.057	0.001	0.001	0.001	0.057	0.001

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)	
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 6 1g SAR (W/kg)	2.4GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	2.4GHz WLAN Ant 6+5 1g SAR (W/kg)	5GHz WLAN Ant 6+5 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	Bluetooth Ant 5 1g SAR (W/kg)								
LTE Band 7_Ant 1	Front	0.388	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.640	0.800	0.728	0.471	0.531	0.618	0.534	
	Back	0.686	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.339	1.117	1.353	1.139	1.136	0.935	1.102	
	Left side	0.525	0.223		0.090	0.081	0.246	0.072	0.076			0.843	0.829	0.691	0.673	0.597	0.682	0.615
	Right side	0.099		0.396	0.048	0.271	0.342	0.067		0.090		0.508	0.460	0.543	0.166	0.256	0.370	0.237
	Top side	0.001	0.001		0.071		0.117	0.075	0.001			0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	1.031				0.056						1.031	1.087	1.031	1.031	1.031	1.087	1.031
LTE Band 7_Ant 8	Front	0.534	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.786	0.946	0.874	0.617	0.677	0.764	0.680	
	Back	0.537	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.190	0.968	1.204	0.990	0.987	0.786	0.953	
	Left side	1.190	0.223		0.090	0.081	0.246	0.072	0.076			1.508	1.494	1.356	1.338	1.262	1.347	1.280
	Right side	0.001		0.396	0.048	0.271	0.342	0.067		0.090		0.410	0.362	0.445	0.068	0.158	0.272	0.139
	Top side	0.045	0.001		0.071		0.117	0.075	0.001			0.237	0.046	0.117	0.121	0.120	0.046	0.116
	Bottom side	0.118				0.056						0.118	0.174	0.118	0.118	0.118	0.174	0.118
LTE Band 12 / 17_Ant 0	Front	0.223	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.475	0.635	0.563	0.306	0.366	0.453	0.369	
	Back	0.317	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.970	0.748	0.984	0.770	0.767	0.566	0.733	
	Left side	0.063	0.223		0.090	0.081	0.246	0.072	0.076			0.381	0.367	0.229	0.211	0.135	0.220	0.153
	Right side	0.202		0.396	0.048	0.271	0.342	0.067		0.090		0.611	0.563	0.646	0.269	0.359	0.473	0.340
	Top side	0.001	0.001		0.071		0.117	0.075	0.001			0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.179				0.056						0.179	0.235	0.179	0.179	0.179	0.235	0.179
LTE Band 12 / 17_Ant 2	Front	0.089	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.341	0.501	0.429	0.172	0.232	0.319	0.235	
	Back	0.076	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.729	0.507	0.743	0.529	0.526	0.325	0.492	
	Left side	0.001	0.223		0.090	0.081	0.246	0.072	0.076			0.319	0.305	0.167	0.149	0.073	0.158	0.091
	Right side	0.075		0.396	0.048	0.271	0.342	0.067		0.090		0.484	0.436	0.519	0.142	0.232	0.346	0.213
	Top side	0.065	0.001		0.071		0.117	0.075	0.001			0.257	0.066	0.137	0.141	0.140	0.066	0.136
	Bottom side	0.001				0.056						0.001	0.057	0.001	0.001	0.001	0.057	0.001
LTE Band 13_Ant 0	Front	0.380	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.632	0.792	0.720	0.463	0.523	0.610	0.526	
	Back	0.515	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.168	0.946	1.182	0.968	0.965	0.764	0.931	
	Left side	0.001	0.223		0.090	0.081	0.246	0.072	0.076			0.319	0.305	0.167	0.149	0.073	0.158	0.091
	Right side	0.231		0.396	0.048	0.271	0.342	0.067		0.090		0.640	0.592	0.675	0.298	0.388	0.502	0.369
	Top side	0.001	0.001		0.071		0.117	0.075	0.001			0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.300				0.056						0.300	0.356	0.300	0.300	0.300	0.356	0.300
LTE Band 13_Ant 2	Front	0.367	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.619	0.779	0.707	0.450	0.510	0.597	0.513	
	Back	0.311	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.964	0.742	0.978	0.764	0.761	0.560	0.727	
	Left side	0.001	0.223		0.090	0.081	0.246	0.072	0.076			0.319	0.305	0.167	0.149	0.073	0.158	0.091
	Right side	0.157		0.396	0.048	0.271	0.342	0.067		0.090		0.566	0.518	0.601	0.224	0.314	0.428	0.295
	Top side	0.244	0.001		0.071		0.117	0.075	0.001			0.436	0.245	0.316	0.320	0.319	0.245	0.315
	Bottom side	0.001				0.056						0.001	0.057	0.001	0.001	0.001	0.057	0.001
LTE Band 25 / 2_Ant 1	Front	0.401	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.653	0.813	0.741	0.484	0.544	0.631	0.547	
	Back	0.527	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.180	0.958	1.194	0.980	0.977	0.776	0.943	
	Left side	0.474	0.223		0.090	0.081	0.246	0.072	0.076			0.792	0.778	0.640	0.622	0.546	0.631	0.564
	Right side	0.060		0.396	0.048	0.271	0.342	0.067		0.090		0.469	0.421	0.504	0.127	0.217	0.331	0.198
	Top side	0.001	0.001		0.071		0.117	0.075	0.001			0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	1.069				0.056						1.069	1.125	1.069	1.069	1.069	1.125	1.069
LTE Band 25 / 2_Ant 8	Front	0.534	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.786	0.946	0.874	0.617	0.677	0.764	0.680	
	Back	0.457	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.110	0.888	1.124	0.910	0.907	0.706	0.873	
	Left side	1.174	0.223		0.090	0.081	0.246	0.072	0.076			1.492	1.478	1.340	1.322	1.246	1.331	1.264
	Right side	0.002		0.396	0.048	0.271	0.342	0.067		0.090		0.411	0.363	0.446	0.069	0.159	0.273	0.140
	Top side	0.064	0.001		0.071		0.117	0.075	0.001			0.256	0.065	0.136	0.140	0.139	0.065	0.135
	Bottom side	0.105				0.056						0.105	0.161	0.105	0.105	0.105	0.161	0.105
LTE Band 26 / 5_Ant 0	Front	0.433	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.685	0.845	0.773	0.516	0.576	0.663	0.579	
	Back	0.545	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.198	0.976	1.212	0.998	0.995	0.794	0.961	
	Left side	0.081	0.223		0.090	0.081	0.246	0.072	0.076			0.399	0.385	0.247	0.229	0.153	0.238	0.171
	Right side	0.178		0.396	0.048	0.271	0.342	0.067		0.090		0.587	0.539	0.622	0.245	0.335	0.449	0.316
	Top side	0.001	0.001		0.071		0.117	0.075	0.001			0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.405				0.056						0.405	0.461	0.405	0.405	0.405	0.461	0.405
LTE Band 26 / 5_Ant 2	Front	0.351	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.603	0.763	0.691	0.434	0.494	0.581	0.497	
	Back	0.307	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.960	0.738	0.974	0.760	0.757	0.556	0.723	



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	Left side	0.054	0.223		0.090	0.081	0.246	0.072	0.076		0.372	0.358	0.220	0.202	0.126	0.211	0.144
	Right side	0.133		0.396	0.048	0.271	0.342	0.067		0.090	0.542	0.494	0.577	0.200	0.290	0.404	0.271
	Top side	0.247	0.001		0.071		0.117	0.075	0.001		0.439	0.248	0.319	0.323	0.322	0.248	0.318
	Bottom side	0.001				0.056					0.001	0.057	0.001	0.001	0.001	0.057	0.001
LTE Band 30_Ant 1	Front	0.367	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.619	0.779	0.707	0.450	0.510	0.597	0.513
	Back	0.543	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.196	0.974	1.210	0.996	0.993	0.792	0.959
	Left side	0.612	0.223		0.090	0.081	0.246	0.072	0.076		0.930	0.916	0.778	0.760	0.684	0.769	0.702
	Right side	0.091		0.396	0.048	0.271	0.342	0.067		0.090	0.500	0.452	0.535	0.158	0.248	0.362	0.229
	Top side	0.002	0.001		0.071		0.117	0.075	0.001		0.194	0.003	0.074	0.078	0.077	0.003	0.073
	Bottom side	1.161				0.056					1.161	1.217	1.161	1.161	1.161	1.217	1.161
LTE Band 30_Ant 8	Front	0.538	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.790	0.950	0.878	0.621	0.681	0.768	0.684
	Back	0.446	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.099	0.877	1.113	0.899	0.896	0.695	0.862
	Left side	1.022	0.223		0.090	0.081	0.246	0.072	0.076		1.340	1.326	1.188	1.170	1.094	1.179	1.112
	Right side	0.016		0.396	0.048	0.271	0.342	0.067		0.090	0.425	0.377	0.460	0.083	0.173	0.287	0.154
	Top side	0.057	0.001		0.071		0.117	0.075	0.001		0.249	0.058	0.129	0.133	0.132	0.058	0.128
	Bottom side	0.122				0.056					0.122	0.178	0.122	0.122	0.122	0.178	0.122
LTE Band 41 / 38_Ant 1	Front	0.349	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.601	0.761	0.689	0.432	0.492	0.579	0.495
	Back	0.682	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.335	1.113	1.349	1.135	1.132	0.931	1.098
	Left side	0.563	0.223		0.090	0.081	0.246	0.072	0.076		0.881	0.867	0.729	0.711	0.635	0.720	0.653
	Right side	0.068		0.396	0.048	0.271	0.342	0.067		0.090	0.477	0.429	0.512	0.135	0.225	0.339	0.206
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.913				0.056					0.913	0.969	0.913	0.913	0.913	0.969	0.913
LTE Band 41 / 38_Ant 8	Front	0.428	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.680	0.840	0.768	0.511	0.571	0.658	0.574
	Back	0.418	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.071	0.849	1.085	0.871	0.868	0.667	0.834
	Left side	0.994	0.223		0.090	0.081	0.246	0.072	0.076		1.312	1.298	1.160	1.142	1.066	1.151	1.084
	Right side	0.063		0.396	0.048	0.271	0.342	0.067		0.090	0.472	0.424	0.507	0.130	0.220	0.334	0.201
	Top side	0.002	0.001		0.071		0.117	0.075	0.001		0.194	0.003	0.074	0.078	0.077	0.003	0.073
	Bottom side	0.070				0.056					0.070	0.126	0.070	0.070	0.070	0.126	0.070
LTE Band 48 / 42_Ant 9	Front	0.113	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.365	0.525	0.453	0.196	0.256	0.343	0.259
	Back	0.203	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.856	0.634	0.870	0.656	0.653	0.452	0.619
	Left side	0.407	0.223		0.090	0.081	0.246	0.072	0.076		0.725	0.711	0.573	0.555	0.479	0.564	0.497
	Right side	0.001		0.396	0.048	0.271	0.342	0.067		0.090	0.410	0.362	0.445	0.068	0.158	0.272	0.139
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.001				0.056					0.001	0.057	0.001	0.001	0.001	0.057	0.001
LTE Band 48 / 42_Ant 11	Front	0.001	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.253	0.413	0.341	0.084	0.144	0.231	0.147
	Back	0.483	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.136	0.914	1.150	0.936	0.933	0.732	0.899
	Left side	0.001	0.223		0.090	0.081	0.246	0.072	0.076		0.319	0.305	0.167	0.149	0.073	0.158	0.091
	Right side	0.001		0.396	0.048	0.271	0.342	0.067		0.090	0.410	0.362	0.445	0.068	0.158	0.272	0.139
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.001				0.056					0.001	0.057	0.001	0.001	0.001	0.057	0.001
LTE Band 66 / 4_Ant 1	Front	0.291	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.543	0.703	0.631	0.374	0.434	0.521	0.437
	Back	0.411	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.064	0.842	1.078	0.864	0.861	0.660	0.827
	Left side	0.320	0.223		0.090	0.081	0.246	0.072	0.076		0.638	0.624	0.486	0.468	0.392	0.477	0.410
	Right side	0.001		0.396	0.048	0.271	0.342	0.067		0.090	0.410	0.362	0.445	0.068	0.158	0.272	0.139
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.623				0.056					0.623	0.679	0.623	0.623	0.623	0.679	0.623
LTE Band 66 / 4_Ant 8	Front	0.456	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.708	0.868	0.796	0.539	0.599	0.686	0.602
	Back	0.408	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.061	0.839	1.075	0.861	0.858	0.657	0.824
	Left side	1.122	0.223		0.090	0.081	0.246	0.072	0.076		1.440	1.426	1.288	1.270	1.194	1.279	1.212
	Right side	0.001		0.396	0.048	0.271	0.342	0.067		0.090	0.410	0.362	0.445	0.068	0.158	0.272	0.139
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.073				0.056					0.073	0.129	0.073	0.073	0.073	0.129	0.073
LTE Band 71_Ant 0	Front	0.183	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.435	0.595	0.523	0.266	0.326	0.413	0.329
	Back	0.271	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.924	0.702	0.938	0.724	0.721	0.520	0.687
	Left side	0.058	0.223		0.090	0.081	0.246	0.072	0.076		0.376	0.362	0.224	0.206	0.130	0.215	0.148
	Right side	0.156		0.396	0.048	0.271	0.342	0.067		0.090	0.565	0.517	0.600	0.223	0.313	0.427	0.294
	Top side	0.001	0.001		0.071		0.117	0.075	0.001		0.193	0.002	0.073	0.077	0.076	0.002	0.072
	Bottom side	0.149				0.056					0.149	0.205	0.149	0.149	0.149	0.205	0.149
LTE Band 71_Ant 2	Front	0.174	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.426	0.586	0.514	0.257	0.317	0.404	0.320
	Back	0.137	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.790	0.568	0.804	0.590	0.587	0.386	0.553
	Left side	0.001	0.223		0.090	0.081	0.246	0.072	0.076		0.319	0.305	0.167	0.149	0.073	0.158	0.091
	Right side	0.093		0.396	0.048	0.271	0.342	0.067		0.090	0.502	0.454	0.537	0.160	0.250	0.364	0.231
	Top side	0.121	0.001		0.071		0.117	0.075	0.001		0.313	0.122	0.193	0.197	0.196	0.122	0.192
	Bottom side	0.001				0.056					0.001	0.057	0.001	0.001	0.001	0.057	0.001



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WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7	1+2+5+9	1+3+4+8	1+7+8	1+7+9	1+5+8	1+4+9
		NR	2.4GHz WLAN Ant 6	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	5GHz WLAN Ant 5	2.4GHz WLAN Ant 6+5	5GHz WLAN Ant 6+5	Bluetooth Ant 6	Bluetooth Ant 5	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
FR1 n5_Ant 0	Front	0.225	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.477	0.637	0.565	0.308	0.368	0.455	0.371
	Back	0.326	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.979	0.757	0.993	0.779	0.776	0.575	0.742
	Left side	0.001	0.223		0.090	0.081	0.246	0.072	0.076		0.319	0.305	0.167	0.149	0.073	0.158	0.091
	Right side	0.001		0.396	0.048	0.271	0.342	0.067		0.090	0.410	0.362	0.445	0.068	0.158	0.272	0.139
	Top side		0.001		0.071		0.117	0.075	0.001		0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side	0.234				0.056					0.234	0.290	0.234	0.234	0.234	0.290	0.234
FR1 n5_Ant 2	Front	0.357	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.609	0.769	0.697	0.440	0.500	0.587	0.503
	Back	0.353	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.006	0.784	1.020	0.806	0.803	0.602	0.769
	Left side	0.002	0.223		0.090	0.081	0.246	0.072	0.076		0.320	0.306	0.168	0.150	0.074	0.159	0.092
	Right side	0.155		0.396	0.048	0.271	0.342	0.067		0.090	0.564	0.516	0.599	0.222	0.312	0.426	0.293
	Top side	0.228	0.001		0.071		0.117	0.075	0.001		0.420	0.229	0.300	0.304	0.303	0.229	0.299
	Bottom side					0.056					0.000	0.056	0.000	0.000	0.000	0.056	0.000
FR1 n7_Ant 1	Front	0.385	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.637	0.797	0.725	0.468	0.528	0.615	0.531
	Back	0.660	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.313	1.091	1.327	1.113	1.110	0.909	1.076
	Left side	0.536	0.223		0.090	0.081	0.246	0.072	0.076		0.854	0.840	0.702	0.684	0.608	0.693	0.626
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001		0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side	0.915				0.056					0.915	0.971	0.915	0.915	0.915	0.971	0.915
FR1 n7_Ant 8	Front	0.447	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.699	0.859	0.787	0.530	0.590	0.677	0.593
	Back	0.465	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.118	0.896	1.132	0.918	0.915	0.714	0.881
	Left side	0.774	0.223		0.090	0.081	0.246	0.072	0.076		1.092	1.078	0.940	0.922	0.846	0.931	0.864
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001		0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side					0.056					0.000	0.056	0.000	0.000	0.000	0.056	0.000
FR1 n12_Ant 0	Front	0.252	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.504	0.664	0.592	0.335	0.395	0.482	0.398
	Back	0.417	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.070	0.848	1.084	0.870	0.867	0.666	0.833
	Left side	0.084	0.223		0.090	0.081	0.246	0.072	0.076		0.402	0.388	0.250	0.232	0.156	0.241	0.174
	Right side	0.193		0.396	0.048	0.271	0.342	0.067		0.090	0.602	0.554	0.637	0.260	0.350	0.464	0.331
	Top side		0.001		0.071		0.117	0.075	0.001		0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side	0.222				0.056					0.222	0.278	0.222	0.222	0.222	0.278	0.222
FR1 n12_Ant 2	Front	0.156	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.408	0.568	0.496	0.239	0.299	0.386	0.302
	Back	0.159	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.812	0.590	0.826	0.612	0.609	0.408	0.575
	Left side	0.001	0.223		0.090	0.081	0.246	0.072	0.076		0.319	0.305	0.167	0.149	0.073	0.158	0.091
	Right side	0.096		0.396	0.048	0.271	0.342	0.067		0.090	0.505	0.457	0.540	0.163	0.253	0.367	0.234
	Top side	0.099	0.001		0.071		0.117	0.075	0.001		0.291	0.100	0.171	0.175	0.174	0.100	0.170
	Bottom side					0.056					0.000	0.056	0.000	0.000	0.000	0.056	0.000
FR1 n25 / 2_Ant 1	Front	0.436	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.688	0.848	0.776	0.519	0.579	0.666	0.582
	Back	0.587	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.240	1.018	1.254	1.040	1.037	0.836	1.003
	Left side	0.520	0.223		0.090	0.081	0.246	0.072	0.076		0.838	0.824	0.686	0.668	0.592	0.677	0.610
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001		0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side	1.179				0.056					1.179	1.235	1.179	1.179	1.179	1.235	1.179
FR1 n25 / 2_Ant 8	Front	0.480	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.732	0.892	0.820	0.563	0.623	0.710	0.626
	Back	0.400	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.053	0.831	1.067	0.853	0.850	0.649	0.816
	Left side	1.140	0.223		0.090	0.081	0.246	0.072	0.076		1.458	1.444	1.306	1.288	1.212	1.297	1.230
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001		0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side					0.056					0.000	0.056	0.000	0.000	0.000	0.056	0.000
FR1 n38_Ant 9	Front	0.430	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.682	0.842	0.770	0.513	0.573	0.660	0.576
	Back	0.296	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.949	0.727	0.963	0.749	0.746	0.545	0.712
	Left side	0.929	0.223		0.090	0.081	0.246	0.072	0.076		1.247	1.233	1.095	1.077	1.001	1.086	1.019
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001		0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side					0.056					0.000	0.056	0.000	0.000	0.000	0.056	0.000
FR1 n38_Ant 11	Front	0.001	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.253	0.413	0.341	0.084	0.144	0.231	0.147
	Back	0.614	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	1.267	1.045	1.281	1.067	1.064	0.863	1.030
	Left side	0.070	0.223		0.090	0.081	0.246	0.072	0.076		0.388	0.374	0.236	0.218	0.142	0.227	0.160
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001		0.192	0.001	0.072	0.076	0.075	0.001	0.071



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	Bottom side	0.125				0.056						0.125	0.181	0.125	0.125	0.125	0.181	0.125
FR1 n41_Ant 9	Front	0.393	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.061	0.645	0.805	0.733	0.476	0.536	0.623	0.539
	Back	0.277	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.055	0.930	0.708	0.944	0.730	0.727	0.526	0.693
	Left side	1.148	0.223		0.090	0.081	0.246	0.072	0.076			1.466	1.452	1.314	1.296	1.220	1.305	1.238
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001			0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side					0.056						0.000	0.056	0.000	0.000	0.000	0.056	0.000
FR1 n41_Ant 11	Front	0.001	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.061	0.253	0.413	0.341	0.084	0.144	0.231	0.147
	Back	0.634	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.055	1.287	1.065	1.301	1.087	1.084	0.883	1.050
	Left side	0.069	0.223		0.090	0.081	0.246	0.072	0.076			0.387	0.373	0.235	0.217	0.141	0.226	0.159
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001			0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side	0.133				0.056						0.133	0.189	0.133	0.133	0.133	0.189	0.133
FR1 n66_Ant 1	Front	0.289	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.061	0.541	0.701	0.629	0.372	0.432	0.519	0.435
	Back	0.380	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.055	1.033	0.811	1.047	0.833	0.830	0.629	0.796
	Left side	0.327	0.223		0.090	0.081	0.246	0.072	0.076			0.645	0.631	0.493	0.475	0.399	0.484	0.417
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001			0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side	0.482				0.056						0.482	0.538	0.482	0.482	0.482	0.538	0.482
FR1 n66_Ant 8	Front	0.376	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.061	0.628	0.788	0.716	0.459	0.519	0.606	0.522
	Back	0.316	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.055	0.969	0.747	0.983	0.769	0.766	0.565	0.732
	Left side	0.934	0.223		0.090	0.081	0.246	0.072	0.076			1.252	1.238	1.100	1.082	1.006	1.091	1.024
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001			0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side					0.056						0.000	0.056	0.000	0.000	0.000	0.056	0.000
FR1 n71_Ant 0	Front	0.240	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.061	0.492	0.652	0.580	0.323	0.383	0.470	0.386
	Back	0.359	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.055	1.012	0.790	1.026	0.812	0.809	0.608	0.775
	Left side	0.076	0.223		0.090	0.081	0.246	0.072	0.076			0.394	0.380	0.242	0.224	0.148	0.233	0.166
	Right side	0.152		0.396	0.048	0.271	0.342	0.067		0.090	0.090	0.561	0.513	0.596	0.219	0.309	0.423	0.290
	Top side		0.001		0.071		0.117	0.075	0.001			0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side	0.195				0.056						0.195	0.251	0.195	0.195	0.195	0.251	0.195
FR1 n71_Ant 2	Front	0.040	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.061	0.292	0.452	0.380	0.123	0.183	0.270	0.186
	Back	0.015	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.055	0.668	0.446	0.682	0.468	0.465	0.264	0.431
	Left side	0.001	0.223		0.090	0.081	0.246	0.072	0.076			0.319	0.305	0.167	0.149	0.073	0.158	0.091
	Right side	0.001		0.396	0.048	0.271	0.342	0.067		0.090	0.090	0.410	0.362	0.445	0.068	0.158	0.272	0.139
	Top side	0.022	0.001		0.071		0.117	0.075	0.001			0.214	0.023	0.094	0.098	0.097	0.023	0.093
	Bottom side					0.056						0.000	0.056	0.000	0.000	0.000	0.056	0.000
FR1 n77 / 78_Ant 9	Front	0.276	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.061	0.528	0.688	0.616	0.359	0.419	0.506	0.422
	Back	0.261	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.055	0.914	0.692	0.928	0.714	0.711	0.510	0.677
	Left side	0.592	0.223		0.090	0.081	0.246	0.072	0.076			0.910	0.896	0.758	0.740	0.664	0.749	0.682
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001			0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side					0.056						0.000	0.056	0.000	0.000	0.000	0.056	0.000
FR1 n77 / 78_Ant 11	Front	0.041	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.061	0.293	0.453	0.381	0.124	0.184	0.271	0.187
	Back	0.585	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.055	1.238	1.016	1.252	1.038	1.035	0.834	1.001
	Left side	0.066	0.223		0.090	0.081	0.246	0.072	0.076			0.384	0.370	0.232	0.214	0.138	0.223	0.156
	Right side			0.396	0.048	0.271	0.342	0.067		0.090	0.090	0.409	0.361	0.444	0.067	0.157	0.271	0.138
	Top side		0.001		0.071		0.117	0.075	0.001			0.192	0.001	0.072	0.076	0.075	0.001	0.071
	Bottom side	0.080				0.056						0.080	0.136	0.080	0.080	0.080	0.136	0.080



<5G FR1 UL MIMO Transmit with WiFi BT Camera Mode>

WWAN Band	Exposure Position	0	1	2	3	4	5	6	7	8	9	0+1 Summed 1g SAR (W/kg)	0+1+6+7 Summed 1g SAR (W/kg)	0+1+2+5+9 Summed 1g SAR (W/kg)	0+1+3+4+8 Summed 1g SAR (W/kg)	0+1+7+8 Summed 1g SAR (W/kg)	0+1+7+9 Summed 1g SAR (W/kg)	0+1+5+8 Summed 1g SAR (W/kg)	0+1+4+9 Summed 1g SAR (W/kg)		
		n41_ULMIMO Max. Ant 9 / 11 SAR	n41_ULMIMO Max. Ant 1 / 3 / 8 SAR	2.4GHz WLAN Ant 6	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	5GHz WLAN Ant 5	2.4GHz WLAN Ant 6+5	5GHz WLAN Ant 6+5	Bluetooth Ant 6	Bluetooth Ant 5										
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)										
n41	n41_Ant 1	Front	0.265	0.239	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.504	0.756	0.916	0.844	0.587	0.647	0.734	0.650	
		Back	0.184	0.323	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.507	1.160	0.938	1.174	0.960	0.957	0.756	0.923	
		Left side	0.792	0.290	0.223		0.090	0.081	0.246	0.072	0.076		1.082	1.400	1.386	1.248	1.230	1.154	1.239	1.172	
		Right side				0.396	0.048	0.271	0.342	0.067		0.090	0.000	0.409	0.361	0.444	0.067	0.157	0.271	0.138	
		Top side			0.001		0.071		0.117	0.075	0.001		0.000	0.192	0.001	0.072	0.076	0.075	0.001	0.071	
		Bottom side		0.521				0.056					0.521	0.521	0.577	0.521	0.521	0.521	0.577	0.521	
	n41_Ant 9	n41_Ant 3	Front	0.265	0.163	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.428	0.680	0.840	0.768	0.511	0.571	0.658	0.574
			Back	0.184	0.215	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.399	1.052	0.830	1.066	0.852	0.849	0.648	0.815
			Left side	0.792	0.001	0.223		0.090	0.081	0.246	0.072	0.076		0.793	1.111	1.097	0.959	0.941	0.865	0.950	0.883
			Right side				0.396	0.048	0.271	0.342	0.067		0.090	0.000	0.409	0.361	0.444	0.067	0.157	0.271	0.138
			Top side		0.383	0.001		0.071		0.117	0.075	0.001		0.383	0.575	0.384	0.455	0.459	0.458	0.384	0.454
			Bottom side						0.056					0.000	0.000	0.056	0.000	0.000	0.000	0.056	0.000
	n41_Ant 8	n41_Ant 8	Front	0.265	0.001	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.266	0.518	0.678	0.606	0.349	0.409	0.496	0.412
			Back	0.184	0.001	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.185	0.838	0.616	0.852	0.638	0.635	0.434	0.601
			Left side	0.792	0.006	0.223		0.090	0.081	0.246	0.072	0.076		0.798	1.116	1.102	0.964	0.946	0.870	0.955	0.888
			Right side				0.396	0.048	0.271	0.342	0.067		0.090	0.000	0.409	0.361	0.444	0.067	0.157	0.271	0.138
			Top side			0.001		0.071		0.117	0.075	0.001		0.000	0.192	0.001	0.072	0.076	0.075	0.001	0.071
			Bottom side						0.056					0.000	0.000	0.056	0.000	0.000	0.000	0.056	0.000
n41_Ant 11	n41_Ant 1	Front	0.001	0.239	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.240	0.492	0.652	0.580	0.323	0.383	0.470	0.386	
		Back	0.372	0.323	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.695	1.348	1.126	1.362	1.148	1.145	0.944	1.111	
		Left side	0.001	0.290	0.223		0.090	0.081	0.246	0.072	0.076		0.291	0.609	0.595	0.457	0.439	0.363	0.448	0.381	
		Right side				0.396	0.048	0.271	0.342	0.067		0.090	0.000	0.409	0.361	0.444	0.067	0.157	0.271	0.138	
		Top side			0.001		0.071		0.117	0.075	0.001		0.000	0.192	0.001	0.072	0.076	0.075	0.001	0.071	
		Bottom side	0.092	0.521				0.056					0.613	0.613	0.669	0.613	0.613	0.613	0.669	0.613	
	n41_Ant 3	n41_Ant 3	Front	0.001	0.163	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.164	0.416	0.576	0.504	0.247	0.307	0.394	0.310
			Back	0.372	0.215	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.587	1.240	1.018	1.254	1.040	1.037	0.836	1.003
			Left side	0.001	0.001	0.223		0.090	0.081	0.246	0.072	0.076		0.002	0.320	0.306	0.168	0.150	0.074	0.159	0.092
			Right side				0.396	0.048	0.271	0.342	0.067		0.090	0.000	0.409	0.361	0.444	0.067	0.157	0.271	0.138
			Top side		0.383	0.001		0.071		0.117	0.075	0.001		0.383	0.575	0.384	0.455	0.459	0.458	0.384	0.454
			Bottom side	0.092					0.056					0.092	0.092	0.148	0.092	0.092	0.092	0.148	0.092
	n41_Ant 8	n41_Ant 8	Front	0.001	0.001	0.122	0.254	0.085	0.229	0.170	0.082	0.001	0.061	0.002	0.254	0.414	0.342	0.085	0.145	0.232	0.148
			Back	0.372	0.001	0.185	0.248	0.361	0.191	0.258	0.395	0.058	0.055	0.373	1.026	0.804	1.040	0.826	0.823	0.622	0.789
			Left side	0.001	0.006	0.223		0.090	0.081	0.246	0.072	0.076		0.007	0.325	0.311	0.173	0.155	0.079	0.164	0.097
			Right side				0.396	0.048	0.271	0.342	0.067		0.090	0.000	0.409	0.361	0.444	0.067	0.157	0.271	0.138
			Top side			0.001		0.071		0.117	0.075	0.001		0.000	0.192	0.001	0.072	0.076	0.075	0.001	0.071
			Bottom side	0.092					0.056					0.092	0.092	0.148	0.092	0.092	0.092	0.148	0.092

14.3 Body-worn Exposure Conditions

<WWAN Transmit with WiFi BT Normal Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 4	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 4+5	Max 5GHz WLAN / WiFi 6E Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
GSM850_Ant 0 GPRS 2TX	Front	0.227	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.439	0.408	0.467	0.376	0.350	0.385	0.309
	Back	0.294	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.697	0.782	0.493	0.675	0.666	0.696	0.466
GSM850_Ant 2 GPRS 2TX	Front	0.278	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.490	0.459	0.518	0.427	0.401	0.436	0.360
	Back	0.200	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.603	0.688	0.399	0.581	0.572	0.602	0.372
GSM1900_Ant 1 GPRS 2TX	Front	0.187	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.399	0.368	0.427	0.336	0.310	0.345	0.269
	Back	0.307	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.710	0.795	0.506	0.688	0.679	0.709	0.479
GSM1900_Ant 8 GPRS 2TX	Front	0.206	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.418	0.387	0.446	0.355	0.329	0.364	0.288
	Back	0.106	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.509	0.594	0.305	0.487	0.478	0.508	0.278
WCDMA II_Ant 1	Front	0.291	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.503	0.472	0.531	0.440	0.414	0.449	0.373
	Back	0.409	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.812	0.897	0.608	0.790	0.781	0.811	0.581
WCDMA II_Ant 8	Front	0.256	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.468	0.437	0.496	0.405	0.379	0.414	0.338
	Back	0.228	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.631	0.716	0.427	0.609	0.600	0.630	0.400
WCDMA IV_Ant 1	Front	0.331	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.543	0.512	0.571	0.480	0.454	0.489	0.413
	Back	0.407	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.810	0.895	0.606	0.788	0.779	0.809	0.579
WCDMA IV_Ant 8	Front	0.218	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.430	0.399	0.458	0.367	0.341	0.376	0.300
	Back	0.182	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.585	0.670	0.381	0.563	0.554	0.584	0.354
WCDMA V_Ant 0	Front	0.277	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.489	0.458	0.517	0.426	0.400	0.435	0.359
	Back	0.339	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.742	0.827	0.538	0.720	0.711	0.741	0.511
WCDMA V_Ant 2	Front	0.129	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.341	0.310	0.369	0.278	0.252	0.287	0.211
	Back	0.110	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.513	0.598	0.309	0.491	0.482	0.512	0.282

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 4	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 4+5	Max 5GHz WLAN / WiFi 6E Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
LTE Band 7_Ant 1	Front	0.192	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.404	0.373	0.432	0.341	0.315	0.350	0.274
	Back	0.254	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.657	0.742	0.453	0.635	0.626	0.656	0.426
LTE Band 7_Ant 8	Front	0.306	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.518	0.487	0.546	0.455	0.429	0.464	0.388
	Back	0.327	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.730	0.815	0.526	0.708	0.699	0.729	0.499
LTE Band 12 / 17_Ant 0	Front	0.130	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.342	0.311	0.370	0.279	0.253	0.288	0.212
	Back	0.179	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.582	0.667	0.378	0.560	0.551	0.581	0.351
LTE Band 12 / 17_Ant 2	Front	0.066	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.278	0.247	0.306	0.215	0.189	0.224	0.148
	Back	0.065	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.468	0.553	0.264	0.446	0.437	0.467	0.237
LTE Band 13_Ant 0	Front	0.227	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.439	0.408	0.467	0.376	0.350	0.385	0.309
	Back	0.292	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.695	0.780	0.491	0.673	0.664	0.694	0.464
LTE Band 13_Ant 2	Front	0.255	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.467	0.436	0.495	0.404	0.378	0.413	0.337
	Back	0.216	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.619	0.704	0.415	0.597	0.588	0.618	0.388
LTE Band 25 / 2_Ant 1	Front	0.283	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.495	0.464	0.523	0.432	0.406	0.441	0.365
	Back	0.399	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.802	0.887	0.598	0.780	0.771	0.801	0.571
LTE Band 25 / 2_Ant 8	Front	0.306	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.518	0.487	0.546	0.455	0.429	0.464	0.388
	Back	0.234	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.637	0.722	0.433	0.615	0.606	0.636	0.406
LTE Band 26 / 5_Ant 0	Front	0.345	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.557	0.526	0.585	0.494	0.468	0.503	0.427
	Back	0.415	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.818	0.903	0.614	0.796	0.787	0.817	0.587
LTE Band 26 / 5_Ant 2	Front	0.167	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.379	0.348	0.407	0.316	0.290	0.325	0.249
	Back	0.162	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.565	0.650	0.361	0.543	0.534	0.564	0.334
LTE Band 30_Ant 1	Front	0.367	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.579	0.548	0.607	0.516	0.490	0.525	0.449
	Back	0.344	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.747	0.832	0.543	0.725	0.716	0.746	0.516
LTE Band	Front	0.327	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.539	0.508	0.567	0.476	0.450	0.485	0.409



FCC SAR TEST REPORT

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30_Ant 8	Back	0.329	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.732	0.817	0.528	0.710	0.701	0.731	0.501
LTE Band 41 / 38_Ant 1	Front	0.233	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.445	0.414	0.473	0.382	0.356	0.391	0.315
	Back	0.369	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.772	0.857	0.568	0.750	0.741	0.771	0.541
LTE Band 41 / 38_Ant 8	Front	0.173	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.385	0.354	0.413	0.322	0.296	0.331	0.255
	Back	0.147	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.550	0.635	0.346	0.528	0.519	0.549	0.319
LTE Band 48 / 42_Ant 9	Front	0.001	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.213	0.182	0.241	0.150	0.124	0.159	0.083
	Back	0.129	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.532	0.617	0.328	0.510	0.501	0.531	0.301
LTE Band 48 / 42_Ant 11	Front	0.001	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.213	0.182	0.241	0.150	0.124	0.159	0.083
	Back	0.206	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.609	0.694	0.405	0.587	0.578	0.608	0.378
LTE Band 66 / 4_Ant 1	Front	0.180	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.392	0.361	0.420	0.329	0.303	0.338	0.262
	Back	0.282	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.685	0.770	0.481	0.663	0.654	0.684	0.454
LTE Band 66 / 4_Ant 8	Front	0.188	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.400	0.369	0.428	0.337	0.311	0.346	0.270
	Back	0.163	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.566	0.651	0.362	0.544	0.535	0.565	0.335
LTE Band 71_Ant 0	Front	0.118	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.330	0.299	0.358	0.267	0.241	0.276	0.200
	Back	0.166	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.569	0.654	0.365	0.547	0.538	0.568	0.338
LTE Band 71_Ant 2	Front	0.115	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.327	0.296	0.355	0.264	0.238	0.273	0.197
	Back	0.098	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.501	0.586	0.297	0.479	0.470	0.500	0.270

WWAN Band	Exposure Position	1		2		3		4		5		6		7		8		9		1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		NR	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 4	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 4+5	Max 5GHz WLAN / WiFi 6E Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5																
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)																
FR1 n5_Ant 0	Front	0.134	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.346	0.315	0.374	0.283	0.257	0.292	0.216									
	Back	0.175	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.578	0.663	0.374	0.556	0.547	0.577	0.347									
FR1 n5_Ant 2	Front	0.162	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.374	0.343	0.402	0.311	0.285	0.320	0.244									
	Back	0.145	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.548	0.633	0.344	0.526	0.517	0.547	0.317									
FR1 n7_Ant 1	Front	0.254	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.466	0.435	0.494	0.403	0.377	0.412	0.336									
	Back	0.384	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.787	0.872	0.583	0.765	0.756	0.786	0.556									
FR1 n7_Ant 8	Front	0.212	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.424	0.393	0.452	0.361	0.335	0.370	0.294									
	Back	0.242	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.645	0.730	0.441	0.623	0.614	0.644	0.414									
FR1 n12_Ant 0	Front	0.153	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.365	0.334	0.393	0.302	0.276	0.311	0.235									
	Back	0.216	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.619	0.704	0.415	0.597	0.588	0.618	0.388									
FR1 n12_Ant 2	Front	0.094	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.306	0.275	0.334	0.243	0.217	0.252	0.176									
	Back	0.082	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.485	0.570	0.281	0.463	0.454	0.484	0.254									
FR1 n25 / 2_Ant 1	Front	0.284	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.496	0.465	0.524	0.433	0.407	0.442	0.366									
	Back	0.406	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.809	0.894	0.605	0.787	0.778	0.808	0.578									
FR1 n25 / 2_Ant 8	Front	0.231	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.443	0.412	0.471	0.380	0.354	0.389	0.313									
	Back	0.224	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.627	0.712	0.423	0.605	0.596	0.626	0.396									
FR1 n38_Ant 9	Front	0.274	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.486	0.455	0.514	0.423	0.397	0.432	0.356									
	Back	0.198	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.601	0.686	0.397	0.579	0.570	0.600	0.370									
FR1 n38_Ant 11	Front	0.001	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.213	0.182	0.241	0.150	0.124	0.159	0.083									
	Back	0.278	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.681	0.766	0.477	0.659	0.650	0.680	0.450									
FR1 n41_Ant 9	Front	0.250	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.462	0.431	0.490	0.399	0.373	0.408	0.332									
	Back	0.204	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.607	0.692	0.403	0.585	0.576	0.606	0.376									
FR1 n41_Ant 11	Front	0.001	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.213	0.182	0.241	0.150	0.124	0.159	0.083									
	Back	0.264	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.667	0.752	0.463	0.645	0.636	0.666	0.436									
FR1 n66_Ant 1	Front	0.113	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.325	0.294	0.353	0.262	0.236	0.271	0.195									
	Back	0.161	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.564	0.649	0.360	0.542	0.533	0.563	0.333									
FR1 n66_Ant 8	Front	0.155	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.367	0.336	0.395	0.304	0.278	0.313	0.237									
	Back	0.127	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.530	0.615	0.326	0.508	0.499	0.529	0.299									
FR1 n71_Ant 0	Front	0.172	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.384	0.353	0.412	0.321	0.295	0.330	0.254									
	Back	0.239	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.642	0.727	0.438	0.620	0.611	0.641	0.411									
FR1 n71_Ant 2	Front	0.031	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.243	0.212	0.271	0.180	0.154	0.189	0.113									
	Back	0.013	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.416	0.501	0.212	0.394	0.385	0.415	0.185									
FR1 n77 / 78_Ant 9	Front	0.152	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.364	0.333	0.392	0.301	0.275	0.310	0.234									
	Back	0.167	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.570	0.655	0.366	0.548	0.539	0.569	0.339									
FR1 n77 / 78_Ant 11																										

<5G FR1 UL MIMO Transmit with WiFi BT Normal Mode>

WWAN Band	Exposure Position	10	0	11	1	2	3	4	5	6	7	8	9	10+11 Summed 1g SAR (W/kg)	0+1 Summed 1g SAR (W/kg)	0+1+6+7 Summed 1g SAR (W/kg)	0+1+2+5+9 Summed 1g SAR (W/kg)	0+1+3+4+8 Summed 1g SAR (W/kg)	0+1+7+8 Summed 1g SAR (W/kg)	0+1+7+9 Summed 1g SAR (W/kg)	0+1+5+8 Summed 1g SAR (W/kg)	0+1+4+9 Summed 1g SAR (W/kg)	
		n41_ULMIMO Ant 9 / 11	n41_ULMIMO + WLAN Ant 9 / 11	n41_ULMIMO Ant 1 / 3 / 8	n41_ULMIMO + WLAN Ant 1 / 3 / 8	2.4GHz WLAN Ant 4	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 4	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 4+5	Max 5GHz WLAN / WiFi 6E Ant 4+5	Bluetooth Ant 4	Bluetooth Ant 5										
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)										
n41_Ant 9	n41_Ant 1	Front	0.143	0.143	0.108	0.108	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.251	0.251	0.463	0.432	0.491	0.400	0.374	0.409	0.333
		Back	0.115	0.115	0.156	0.156	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.271	0.271	0.674	0.759	0.470	0.652	0.643	0.673	0.443
	n41_Ant 3	Front	0.143	0.143	0.089	0.089	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.232	0.232	0.444	0.413	0.472	0.381	0.355	0.390	0.314
		Back	0.115	0.115	0.114	0.114	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.229	0.229	0.632	0.717	0.428	0.610	0.601	0.631	0.401
	n41_Ant 8	Front	0.143	0.143	0.001	0.001	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.144	0.144	0.356	0.325	0.384	0.293	0.267	0.302	0.226
		Back	0.115	0.115	0.001	0.001	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.116	0.116	0.519	0.604	0.315	0.497	0.488	0.518	0.288
n41_Ant 11	n41_Ant 1	Front	0.001	0.001	0.108	0.108	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.109	0.109	0.321	0.290	0.349	0.258	0.232	0.267	0.191
		Back	0.145	0.145	0.156	0.156	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.301	0.301	0.704	0.789	0.500	0.682	0.673	0.703	0.473
	n41_Ant 3	Front	0.001	0.001	0.089	0.089	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.090	0.090	0.302	0.271	0.330	0.239	0.213	0.248	0.172
		Back	0.145	0.145	0.114	0.114	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.259	0.259	0.662	0.747	0.458	0.640	0.631	0.661	0.431
	n41_Ant 8	Front	0.001	0.001	0.001	0.001	0.049	0.132	0.081	0.131	0.090	0.122	0.027	0.001	0.002	0.002	0.214	0.183	0.242	0.151	0.125	0.160	0.084
		Back	0.145	0.145	0.001	0.001	0.095	0.018	0.114	0.335	0.089	0.314	0.067	0.058	0.146	0.146	0.549	0.634	0.345	0.527	0.518	0.548	0.318

<WWAN Transmit with WiFi BT Camera Mode>

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 6	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 6	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 6+5	Max 5GHz WLAN / WiFi 6E Ant 6+5	Bluetooth Ant 6	Bluetooth Ant 5							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
GSM850_Ant 0 GPRS 2TX	Front	0.227	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.469	0.426	0.400	0.360	0.360	0.359	0.300
	Back	0.294	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.473	0.877	1.458	1.339	1.345	0.707	1.368
GSM850_Ant 2 GPRS 2TX	Front	0.278	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.520	0.477	0.451	0.411	0.411	0.410	0.351
	Back	0.200	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.379	0.783	1.364	1.245	1.251	0.613	1.274
GSM1900_Ant 1 GPRS 2TX	Front	0.187	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.429	0.386	0.360	0.320	0.320	0.319	0.260
	Back	0.307	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.486	0.890	1.471	1.352	1.358	0.720	1.381
GSM1900_Ant 8 GPRS 2TX	Front	0.206	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.448	0.405	0.379	0.339	0.339	0.338	0.279
	Back	0.106	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.285	0.689	1.270	1.151	1.157	0.519	1.180
WCDMA II_Ant 1	Front	0.291	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.533	0.490	0.464	0.424	0.424	0.423	0.364
	Back	0.409	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.588	0.992	1.573	1.454	1.460	0.822	1.483
WCDMA II_Ant 8	Front	0.256	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.498	0.455	0.429	0.389	0.389	0.388	0.329
	Back	0.228	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.407	0.811	1.392	1.273	1.279	0.641	1.302
WCDMA IV_Ant 1	Front	0.331	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.573	0.530	0.504	0.464	0.464	0.463	0.404
	Back	0.407	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.586	0.990	1.571	1.452	1.458	0.820	1.481
WCDMA IV_Ant 8	Front	0.218	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.460	0.417	0.391	0.351	0.351	0.350	0.291
	Back	0.182	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.361	0.765	1.346	1.227	1.233	0.595	1.256
WCDMA V_Ant 0	Front	0.277	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.519	0.476	0.450	0.410	0.410	0.409	0.350
	Back	0.339	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.518	0.922	1.503	1.384	1.390	0.752	1.413
WCDMA V_Ant 2	Front	0.129	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.371	0.328	0.302	0.262	0.262	0.261	0.202
	Back	0.110	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.289	0.693	1.274	1.155	1.161	0.523	1.184



WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 6	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 6	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 6+5	Max 5GHz WLAN / WiFi 6E Ant 6+5	Bluetooth Ant 6	Bluetooth Ant 5							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
LTE Band 7_Ant 1	Front	0.192	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.434	0.391	0.365	0.325	0.325	0.324	0.265
	Back	0.254	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.433	0.837	1.418	1.299	1.305	0.667	1.328
LTE Band 7_Ant 8	Front	0.306	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.548	0.505	0.479	0.439	0.439	0.438	0.379
	Back	0.327	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.506	0.910	1.491	1.372	1.378	0.740	1.401
LTE Band 12 / 17_Ant 0	Front	0.130	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.372	0.329	0.303	0.263	0.263	0.262	0.203
	Back	0.179	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.358	0.762	1.343	1.224	1.230	0.592	1.253
LTE Band 12 / 17_Ant 2	Front	0.066	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.308	0.265	0.239	0.199	0.199	0.198	0.139
	Back	0.065	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.244	0.648	1.229	1.110	1.116	0.478	1.139
LTE Band 13_Ant 0	Front	0.227	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.469	0.426	0.400	0.360	0.360	0.359	0.300
	Back	0.292	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.471	0.875	1.456	1.337	1.343	0.705	1.366
LTE Band 13_Ant 2	Front	0.255	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.497	0.454	0.428	0.388	0.388	0.387	0.328
	Back	0.216	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.395	0.799	1.380	1.261	1.267	0.629	1.290
LTE Band 25 / 2_Ant 1	Front	0.283	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.525	0.482	0.456	0.416	0.416	0.415	0.356
	Back	0.399	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.578	0.982	1.563	1.444	1.450	0.812	1.473
LTE Band 25 / 2_Ant 8	Front	0.306	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.548	0.505	0.479	0.439	0.439	0.438	0.379
	Back	0.234	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.413	0.817	1.398	1.279	1.285	0.647	1.308
LTE Band 26 / 5_Ant 0	Front	0.345	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.587	0.544	0.518	0.478	0.478	0.477	0.418
	Back	0.415	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.594	0.998	1.579	1.460	1.466	0.828	1.489
LTE Band 26 / 5_Ant 2	Front	0.167	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.409	0.366	0.340	0.300	0.300	0.299	0.240
	Back	0.162	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.341	0.745	1.326	1.207	1.213	0.575	1.236
LTE Band 30_Ant 1	Front	0.367	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.609	0.566	0.540	0.500	0.500	0.499	0.440
	Back	0.344	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.523	0.927	1.508	1.389	1.395	0.757	1.418
LTE Band 30_Ant 8	Front	0.327	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.569	0.526	0.500	0.460	0.460	0.459	0.400
	Back	0.329	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.508	0.912	1.493	1.374	1.380	0.742	1.403
LTE Band 41 / 38_Ant 1	Front	0.233	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.475	0.432	0.406	0.366	0.366	0.365	0.306
	Back	0.369	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.548	0.952	1.533	1.414	1.420	0.782	1.443
LTE Band 41 / 38_Ant 8	Front	0.173	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.415	0.372	0.346	0.306	0.306	0.305	0.246
	Back	0.147	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.326	0.730	1.311	1.192	1.198	0.560	1.221
LTE Band 48 / 42_Ant 9	Front	0.001	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.243	0.200	0.174	0.134	0.134	0.133	0.074
	Back	0.129	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.308	0.712	1.293	1.174	1.180	0.542	1.203
LTE Band 48 / 42_Ant 11	Front	0.001	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.243	0.200	0.174	0.134	0.134	0.133	0.074
	Back	0.206	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.385	0.789	1.370	1.251	1.257	0.619	1.280
LTE Band 66 / 4_Ant 1	Front	0.180	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.422	0.379	0.353	0.313	0.313	0.312	0.253
	Back	0.282	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.461	0.865	1.446	1.327	1.333	0.695	1.356
LTE Band 66 / 4_Ant 8	Front	0.188	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.430	0.387	0.361	0.321	0.321	0.320	0.261
	Back	0.163	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.342	0.746	1.327	1.208	1.214	0.576	1.237
LTE Band 71_Ant 0	Front	0.118	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.360	0.317	0.291	0.251	0.251	0.250	0.191
	Back	0.166	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.345	0.749	1.330	1.211	1.217	0.579	1.240
LTE Band 71_Ant 2	Front	0.115	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.357	0.314	0.288	0.248	0.248	0.247	0.188
	Back	0.098	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.277	0.681	1.262	1.143	1.149	0.511	1.172

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	1+6+7 Summed 1g SAR (W/kg)	1+2+5+9 Summed 1g SAR (W/kg)	1+3+4+8 Summed 1g SAR (W/kg)	1+7+8 Summed 1g SAR (W/kg)	1+7+9 Summed 1g SAR (W/kg)	1+5+8 Summed 1g SAR (W/kg)	1+4+9 Summed 1g SAR (W/kg)
		NR	2.4GHz WLAN Ant 6	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 6	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 6+5	Max 5GHz WLAN / WiFi 6E Ant 6+5	Bluetooth Ant 6	Bluetooth Ant 5							
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
FR1 n5_Ant 0	Front	0.134	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.376	0.333	0.307	0.267	0.267	0.266	0.207
	Back	0.175	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.354	0.758	1.339	1.220	1.226	0.588	1.249
FR1 n5_Ant 2	Front	0.162	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.404	0.361	0.335	0.295	0.295	0.294	0.235
	Back	0.145	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.324	0.728	1.309	1.190	1.196	0.558	1.219
FR1 n7_Ant 1	Front	0.254	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.496	0.453	0.427	0.387	0.387	0.386	0.327
	Back	0.384	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.563	0.967	1.548	1.429	1.435	0.797	1.458
FR1 n7_Ant 8	Front	0.212	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.454	0.411	0.385	0.345	0.345	0.344	0.285
	Back	0.242	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.421	0.825	1.406	1.287	1.293	0.655	1.316
FR1 n12_Ant 0	Front	0.153	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.395	0.352	0.326	0.286	0.286	0.285	0.226



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FR1 n12_Ant 2	Back	0.216	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.395	0.799	1.380	1.261	1.267	0.629	1.290
	Front	0.094	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.336	0.293	0.267	0.227	0.227	0.226	0.167
FR1 n25 / 2_Ant 1	Back	0.082	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.261	0.665	1.246	1.127	1.133	0.495	1.156
	Front	0.284	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.526	0.483	0.457	0.417	0.417	0.416	0.357
FR1 n25 / 2_Ant 8	Back	0.406	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.585	0.989	1.570	1.451	1.457	0.819	1.480
	Front	0.231	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.473	0.430	0.404	0.364	0.364	0.363	0.304
FR1 n38_Ant 9	Back	0.224	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.403	0.807	1.388	1.269	1.275	0.637	1.298
	Front	0.274	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.516	0.473	0.447	0.407	0.407	0.406	0.347
FR1 n38_Ant 11	Back	0.198	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.377	0.781	1.362	1.243	1.249	0.611	1.272
	Front	0.001	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.243	0.200	0.174	0.134	0.134	0.133	0.074
FR1 n41_Ant 9	Back	0.278	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.457	0.861	1.442	1.323	1.329	0.691	1.352
	Front	0.250	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.492	0.449	0.423	0.383	0.383	0.382	0.323
FR1 n41_Ant 11	Back	0.204	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.383	0.787	1.368	1.249	1.255	0.617	1.278
	Front	0.001	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.243	0.200	0.174	0.134	0.134	0.133	0.074
FR1 n66_Ant 1	Back	0.264	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.443	0.847	1.428	1.309	1.315	0.677	1.338
	Front	0.113	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.355	0.312	0.286	0.246	0.246	0.245	0.186
FR1 n66_Ant 8	Back	0.161	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.340	0.744	1.325	1.206	1.212	0.574	1.235
	Front	0.155	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.397	0.354	0.328	0.288	0.288	0.287	0.228
FR1 n71_Ant 0	Back	0.127	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.306	0.710	1.291	1.172	1.178	0.540	1.201
	Front	0.172	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.414	0.371	0.345	0.305	0.305	0.304	0.245
FR1 n71_Ant 2	Back	0.239	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.418	0.822	1.403	1.284	1.290	0.652	1.313
	Front	0.031	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.273	0.230	0.204	0.164	0.164	0.163	0.104
FR1 n77 / 78_Ant 9	Back	0.013	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.192	0.596	1.177	1.058	1.064	0.426	1.087
	Front	0.152	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.394	0.351	0.325	0.285	0.285	0.284	0.225
FR1 n77 / 78_Ant 11	Back	0.167	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.346	0.750	1.331	1.212	1.218	0.580	1.241
	Front	0.048	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.290	0.247	0.221	0.181	0.181	0.180	0.121
	Back	0.227	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	1.406	0.810	1.391	1.272	1.278	0.640	1.301



<5G FR1 UL MIMO Transmit with WiFi BT Camera Mode>

WWAN Band	Exposure Position	0	1	2	3	4	5	6	7	8	9	0+1 Summed 1g SAR (W/kg)	0+1+6+7 Summed 1g SAR (W/kg)	0+1+2+5+9 Summed 1g SAR (W/kg)	0+1+3+4+8 Summed 1g SAR (W/kg)	0+1+7+8 Summed 1g SAR (W/kg)	0+1+7+9 Summed 1g SAR (W/kg)	0+1+5+8 Summed 1g SAR (W/kg)	0+1+4+9 Summed 1g SAR (W/kg)	
		n41_ULMIMO Max. Ant 9 / 11 SAR	n41_ULMIMO Max. Ant 1 / 3 / 8 SAR	2.4GHz WLAN Ant 6	2.4GHz WLAN Ant 5	Max 5GHz WLAN / WiFi 6E Ant 6	Max 5GHz WLAN / WiFi 6E Ant 5	2.4GHz WLAN Ant 6+5	Max 5GHz WLAN / WiFi 6E Ant 6+5	Bluetooth Ant 6	Bluetooth Ant 5									
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)									
n41_Ant 9	n41_Ant 1	Front	0.143	0.108	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.251	0.493	0.450	0.424	0.384	0.384	0.383	0.324
		Back	0.115	0.156	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	0.271	1.450	0.854	1.435	1.316	1.322	0.684	1.345
	n41_Ant 3	Front	0.143	0.089	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.232	0.474	0.431	0.405	0.365	0.365	0.364	0.305
		Back	0.115	0.114	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	0.229	1.408	0.812	1.393	1.274	1.280	0.642	1.303
	n41_Ant 8	Front	0.143	0.001	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.144	0.386	0.343	0.317	0.277	0.277	0.276	0.217
		Back	0.115	0.001	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	0.116	1.295	0.699	1.280	1.161	1.167	0.529	1.190
n41_Ant 11	n41_Ant 1	Front	0.001	0.108	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.109	0.351	0.308	0.282	0.242	0.242	0.241	0.182
		Back	0.145	0.156	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	0.301	1.480	0.884	1.465	1.346	1.352	0.714	1.375
	n41_Ant 3	Front	0.001	0.089	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.090	0.332	0.289	0.263	0.223	0.223	0.222	0.163
		Back	0.145	0.114	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	0.259	1.438	0.842	1.423	1.304	1.310	0.672	1.333
	n41_Ant 8	Front	0.001	0.001	0.067	0.100	0.072	0.131	0.110	0.132	0.001	0.001	0.002	0.244	0.201	0.175	0.135	0.135	0.134	0.075
		Back	0.145	0.001	0.164	0.096	1.016	0.361	0.186	0.993	0.052	0.058	0.146	1.325	0.729	1.310	1.191	1.197	0.559	1.220



14.4 Product Specific Exposure Conditions

<WWAN Transmit with WiFi BT Normal Mode>

WWAN Band	Exposure Position	1	4	5	7	1+4 Summed 10g SAR (W/kg)	1+5 Summed 10g SAR (W/kg)	1+7 Summed 10g SAR (W/kg)
		WWAN / NR 10g SAR (W/kg)	Max 5GHz WLAN / WiFi 6E Ant 4 10g SAR (W/kg)	Max 5GHz WLAN / WiFi 6E Ant 5 10g SAR (W/kg)	Max 5GHz WLAN / WiFi 6E Ant 4+5 10g SAR (W/kg)			
GSM1900_Ant 1 GPRS 2TX	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side					0.000	0.000	0.000
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side	2.618				2.618	2.618	2.618
WCDMA II_Ant 1	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side					0.000	0.000	0.000
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side	2.454				2.454	2.454	2.454
WCDMA II_Ant 8	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side	3.080				3.080	3.080	3.080
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side					0.000	0.000	0.000
WCDMA IV_Ant 1	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side					0.000	0.000	0.000
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side	3.369				3.369	3.369	3.369
LTE Band 7_Ant 1	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side					0.000	0.000	0.000
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side	3.264				3.264	3.264	3.264
LTE Band 7_Ant 8	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side	3.273				3.273	3.273	3.273
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side					0.000	0.000	0.000
LTE Band 25 / 2_Ant 1	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side					0.000	0.000	0.000
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side	2.238				2.238	2.238	2.238
LTE Band 25 / 2_Ant 8	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side	3.158				3.158	3.158	3.158
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side					0.000	0.000	0.000
LTE Band 30_Ant 1	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side					0.000	0.000	0.000
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side	3.364				3.364	3.364	3.364



LTE Band 66 / 4_Ant 8	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side	3.220				3.220	3.220	3.220
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side					0.000	0.000	0.000
n25 / 2_Ant 1	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side					0.000	0.000	0.000
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side	2.282				2.282	2.282	2.282
n25 / 2_Ant 8	Front		0.627	0.469	0.483	0.627	0.469	0.483
	Back		0.491	0.544	0.594	0.491	0.544	0.594
	Left side	2.652				2.652	2.652	2.652
	Right side		0.217	0.720	0.694	0.217	0.720	0.694
	Top side		0.156		0.161	0.156	0.000	0.161
	Bottom side					0.000	0.000	0.000

<WWAN Transmit with WiFi BT Camera Mode>

WWAN Band	Exposure Position	1	4	5	7	1+4 Summed 10g SAR (W/kg)	1+5 Summed 10g SAR (W/kg)	1+7 Summed 10g SAR (W/kg)
		WWAN / NR 10g SAR (W/kg)	Max 5GHz WLAN / WiFi 6E Ant 6 10g SAR (W/kg)	Max 5GHz WLAN / WiFi 6E Ant 5 10g SAR (W/kg)	Max 5GHz WLAN / WiFi 6E Ant 6+5 10g SAR (W/kg)			
GSM1900_Ant 1 GPRS 2TX	Front		0.092	0.413	0.509	0.092	0.413	0.509
	Back		2.584	0.400	2.757	2.584	0.400	2.757
	Left side		0.562	0.028	0.558	0.562	0.028	0.558
	Right side		0.026	0.580	0.732	0.026	0.580	0.732
	Top side		0.225		0.197	0.225	0.000	0.197
	Bottom side	2.618		0.027		2.618	2.645	2.618
WCDMA II_Ant 1	Front		0.092	0.413	0.509	0.092	0.413	0.509
	Back		2.584	0.400	2.757	2.584	0.400	2.757
	Left side		0.562	0.028	0.558	0.562	0.028	0.558
	Right side		0.026	0.580	0.732	0.026	0.580	0.732
	Top side		0.225		0.197	0.225	0.000	0.197
	Bottom side	2.454		0.027		2.454	2.481	2.454
WCDMA II_Ant 8	Front		0.092	0.413	0.509	0.092	0.413	0.509
	Back		2.584	0.400	2.757	2.584	0.400	2.757
	Left side	3.080	0.562	0.028	0.558	3.642	3.108	3.638
	Right side		0.026	0.580	0.732	0.026	0.580	0.732
	Top side		0.225		0.197	0.225	0.000	0.197
	Bottom side			0.027		0.000	0.027	0.000
WCDMA IV_Ant 1	Front		0.092	0.413	0.509	0.092	0.413	0.509
	Back		2.584	0.400	2.757	2.584	0.400	2.757
	Left side		0.562	0.028	0.558	0.562	0.028	0.558
	Right side		0.026	0.580	0.732	0.026	0.580	0.732
	Top side		0.225		0.197	0.225	0.000	0.197
	Bottom side	3.369		0.027		3.369	3.396	3.369
LTE Band 7_Ant 1	Front		0.092	0.413	0.509	0.092	0.413	0.509
	Back		2.584	0.400	2.757	2.584	0.400	2.757
	Left side		0.562	0.028	0.558	0.562	0.028	0.558
	Right side		0.026	0.580	0.732	0.026	0.580	0.732
	Top side		0.225		0.197	0.225	0.000	0.197
	Bottom side	3.264		0.027		3.264	3.291	3.264
LTE Band 7_Ant 8	Front		0.092	0.413	0.509	0.092	0.413	0.509
	Back		2.584	0.400	2.757	2.584	0.400	2.757
	Left side	3.273	0.562	0.028	0.558	3.835	3.301	3.831
	Right side		0.026	0.580	0.732	0.026	0.580	0.732
	Top side		0.225		0.197	0.225	0.000	0.197
	Bottom side			0.027		0.000	0.027	0.000
LTE Band 25 / 2_Ant 1	Front		0.092	0.413	0.509	0.092	0.413	0.509



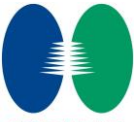
	Back		2.584	0.400	2.757	2.584	0.400	2.757
	Left side		0.562	0.028	0.558	0.562	0.028	0.558
	Right side		0.026	0.580	0.732	0.026	0.580	0.732
	Top side		0.225		0.197	0.225	0.000	0.197
	Bottom side	2.238			0.027		2.238	2.265
LTE Band 25 / 2_Ant 8	Front		0.092	0.413	0.509	0.092	0.413	0.509
	Back		2.584	0.400	2.757	2.584	0.400	2.757
	Left side	3.158	0.562	0.028	0.558	3.720	3.186	3.716
	Right side		0.026	0.580	0.732	0.026	0.580	0.732
	Top side		0.225		0.197	0.225	0.000	0.197
LTE Band 30_Ant 1	Bottom side			0.027		0.000	0.027	0.000
	Front		0.092	0.413	0.509	0.092	0.413	0.509
	Back		2.584	0.400	2.757	2.584	0.400	2.757
	Left side		0.562	0.028	0.558	0.562	0.028	0.558
	Right side		0.026	0.580	0.732	0.026	0.580	0.732
LTE Band 66 / 4_Ant 8	Top side		0.225		0.197	0.225	0.000	0.197
	Bottom side	3.364		0.027		3.364	3.391	3.364
	Front		0.092	0.413	0.509	0.092	0.413	0.509
	Back		2.584	0.400	2.757	2.584	0.400	2.757
	Left side	3.220	0.562	0.028	0.558	3.782	3.248	3.778
n25 / 2_Ant 1	Right side		0.026	0.580	0.732	0.026	0.580	0.732
	Top side		0.225		0.197	0.225	0.000	0.197
	Bottom side	2.282		0.027		2.282	2.309	2.282
	Front		0.092	0.413	0.509	0.092	0.413	0.509
	Back		2.584	0.400	2.757	2.584	0.400	2.757
n25 / 2_Ant 8	Left side		0.562	0.028	0.558	0.562	0.028	0.558
	Right side		0.026	0.580	0.732	0.026	0.580	0.732
	Top side		0.225		0.197	0.225	0.000	0.197
	Bottom side	2.652		0.027		0.000	0.027	0.000
	Front		0.092	0.413	0.509	0.092	0.413	0.509
Back		2.584	0.400	2.757	2.584	0.400	2.757	
Left side	2.652	0.562	0.028	0.558	3.214	2.680	3.210	
Right side		0.026	0.580	0.732	0.026	0.580	0.732	
Top side		0.225		0.197	0.225	0.000	0.197	
Bottom side			0.027		0.000	0.027	0.000	

15. EN-DC Simultaneous Transmission analysis

FR 1	Combination	Portrait Mode		Landscape mode	
		4G UL ANT	5G-NRUL ANT	4G UL ANT	5G-NRUL ANT
n2	DC_5A_n2A	0/2	1	0/2	8
	DC_12A_n2A	0/2	1	0/2	8
	DC_13A_n2A	0/2	1	0/2	8
n5	DC_2A_n5A	1	0/2	8	0/2
	DC_7A_n5A	1	0/2	8	0/2
	DC_66A_n5A	1	0/2	8	0/2
N7	DC_5A_n7A	0/2	1	0/2	8
	DC_12A_n7A	0/2	1	0/2	8
	DC_66A_n7A	8	1	1	8
N12	DC_2A_n12A	1	0/2	8	0/2
	DC_66A_n12A	1	0/2	8	0/2
N25	DC_66A_n25A	8	1	1	8
	DC_12A_n25A	0/2	1	0/2	8
N38	DC_66A_n38A	1	9/11	8	9/11
	DC_2A_n38A	1	9/11	8	9/11
	DC_12A_n38A	0/2	9/11	0/2	9/11
	DC_4A_n38A	1	9/11	8	9/11
	DC_5A_n38A	0/2	9/11	0/2	9/11
N41	DC_71A_n38A	0/2	9/11	0/2	9/11
	DC_4A_n41A	1	9/11	8	9/11
n66	DC_2A_n41A	1	9/11	8	9/11
	DC_2A_n66A	8	1	1	8
	DC_5A_n66A	0/2	1	0/2	8
	DC_12A_n66A	0/2	1	0/2	8
	DC_13A_n66A	0/2	1	0/2	8
n71	DC_71A_n66A	0/2	1	0/2	8
	DC_2A_n71A	1	0/2	8	0/2
	DC_7A_n71A	1	0/2	8	0/2
	DC_66A_n71A	1	0/2	8	0/2
N77	DC_66C_n71A	1	0/2	8	0/2
	DC_41A_n77A	1	9/11	8	9/11
n78	DC_7A_n77A	1	9/11	8	9/11
	DC_2A_n78A	1	9/11	8	9/11
	DC_5A_n78A	0/2	9/11	0/2	9/11
	DC_7A_n78A	1	9/11	8	9/11
	DC_7C_n78A	1	9/11	8	9/11
	DC_12A_n78A	0/2	9/11	0/2	9/11
	DC_13A_n78A	0/2	9/11	0/2	9/11
	DC_38A_n78A	1	9/11	8	9/11
	DC_41A_n78A	1	9/11	8	9/11
DC_66A_n78A	1	9/11	8	9/11	
	DC_71A_n78A	0/2	9/11	0/2	9/11

General Note:

1. According to October 2018 TCB workshop, similar uplink CA SAR test guidance for EN-DC consideration as follows:
 - a. Provide the single uplink SAR values you have obtained for the relevant SAR configuration and frequency bands that employ EN-DC uplink carrier aggregation.
 - b. If the single uplink 1g SAR values for each band are both less than 0.8W/kg and the algebraic summation of the 1g SAR values are less than 1.45W/kg no additional measurements need to be performed.
 - c. If one on the single uplink 1g SAR values is greater than 0.8W/kg, instead of algebraically summing the 1g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB publication 865664 D01 SAR measurement 100MHz to 6GHz V01r04
 - d. If the algebraic sum of the 1g SAR values is > 1.45W/kg additional measurements may have to be made. Submit a KDB inquiry for additional guidance.
2. Test positions and test channels used for the testing below are based on the standalone SAR result. When the EN-DC active which the output power will be set to as below Sim-Tx table for each EN-DC combination, therefore, power and SAR was estimated based on standalone results to performed sim-Tx analysis with WiFi and Bluetooth.
3. The single uplink 1g SAR values for each band are both less than 0.8W/kg and the algebraic summation of the 1g SAR value are less than 1.45W/kg, additional measurements are not required



15.1 Head Exposure Conditions

<EN-DC active with WLAN/BT Normal Mode>

Table with columns: Wwan Band, Exposure Position, NR Standalone Max Power, EN-DC Active NR Max Power, LTE Standalone Max Power, EN-DC Active LTE Max Power, and various SAR (W/kg) values for frequencies 10, 0, 11, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10+11, 0+1, 0+1+6+7, 0+1+2+5+9, 0+1+3+4+8, 0+1+7+8, 0+1+7+9, 0+1+5+8, 0+1+4+9.

Table with columns: Wwan Band, Exposure Position, NR Standalone Max Power, EN-DC Active NR Max Power, LTE Standalone Max Power, EN-DC Active LTE Max Power, and various SAR (W/kg) values for frequencies 10, 0, 11, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10+11, 0+1, 0+1+6+7, 0+1+2+5+9, 0+1+3+4+8, 0+1+7+8, 0+1+7+9, 0+1+5+8, 0+1+4+9.



FCC SAR TEST REPORT

Report No. : FA082114A

n12_Ant 1	LTE Band 66 / 4_Ant 1	Right Cheek	22.5	0.631	22.5	0.631	22.0	0.562	25.5	0.050	25.5	0.050	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.681	0.612	0.929	0.920	0.977	0.873	0.894	0.758	0.838			
			Right Tilted	22.5	0.517	22.5	0.517	22.0	0.461	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.518	0.462	0.772	0.660	0.696	0.712	0.652	0.605	0.597
n12_Ant 0	LTE Band 25 / 2_Ant 1	Left Cheek	22.5	0.632	22.5	0.632	22.0	0.563	25.5	0.034	25.5	0.034	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.666	0.597	1.365	1.038	1.195	1.146	0.995	0.839	0.956			
		Right Cheek	24.5	0.093	24.5	0.093	24.5	0.093	25.5	0.122	25.5	0.122	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.509	0.454	0.830	0.731	0.855	0.833	0.695	0.649	0.668			
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.002	0.002	0.312	0.200	0.236	0.252	0.192	0.145	0.137	
	LTE Band 66 / 4_Ant 1	Left Cheek	24.5	0.054	24.5	0.054	24.5	0.054	25.5	0.078	25.5	0.078	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.132	0.132	0.900	0.573	0.730	0.681	0.530	0.374	0.491			
		Right Cheek	24.5	0.093	24.5	0.093	24.5	0.093	25.5	0.050	25.5	0.050	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.143	0.143	0.460	0.451	0.508	0.404	0.425	0.289	0.369			
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.002	0.002	0.312	0.200	0.236	0.252	0.192	0.145	0.137	
	n12_Ant 2	LTE Band 25 / 2_Ant 2	Left Cheek	24.5	0.491	24.5	0.491	24.5	0.491	25.5	0.078	25.5	0.078	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.569	0.569	1.337	1.010	1.167	1.116	0.967	0.811	0.928		
			Right Cheek	24.5	0.542	24.5	0.542	24.5	0.542	25.5	0.122	25.5	0.122	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.664	0.664	0.981	0.972	1.029	0.925	0.946	0.810	0.890		
			Right Tilted	24.5	0.365	24.5	0.365	24.5	0.365	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.366	0.366	0.676	0.564	0.600	0.616	0.556	0.509	0.501
LTE Band 66 / 4_Ant 1		Left Cheek	24.5	0.414	24.5	0.414	24.5	0.414	25.5	0.001	25.5	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.415	0.415	0.791	0.692	0.816	0.794	0.656	0.610	0.629			
		Right Cheek	24.5	0.542	24.5	0.542	24.5	0.542	25.5	0.050	25.5	0.050	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.592	0.592	0.909	0.900	0.957	0.853	0.874	0.738	0.818			
		Right Tilted	24.5	0.365	24.5	0.365	24.5	0.365	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.366	0.366	0.676	0.564	0.600	0.616	0.556	0.509	0.501	
n7_Ant 1		LTE Band 26 / 5_Ant 0	Left Cheek	24.5	0.047	24.5	0.047	24.5	0.047	25.5	0.052	25.5	0.052	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.059	0.059	0.867	0.540	0.697	0.648	0.497	0.341	0.458		
			Right Cheek	24.5	0.036	24.5	0.036	24.5	0.036	25.5	0.090	25.5	0.090	0.250	0.090	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.126	0.126	0.443	0.434	0.491	0.387	0.408	0.272	0.352
			Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.038	25.5	0.038	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.039	0.039	0.349	0.237	0.273	0.289	0.229	0.182	0.174		
	LTE Band 12 / 17_Ant 0	Left Cheek	24.5	0.047	24.5	0.047	24.5	0.047	25.5	0.043	25.5	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.090	0.090	0.858	0.531	0.688	0.639	0.488	0.332	0.449			
		Right Cheek	24.5	0.036	24.5	0.036	24.5	0.036	24.5	0.070	24.5	0.070	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.106	0.106	0.423	0.414	0.471	0.367	0.388	0.252	0.332			
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	24.5	0.061	24.5	0.061	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.062	0.062	0.372	0.260	0.296	0.312	0.252	0.205	0.197			
	n38_Ant 9	LTE Band 26 / 5_Ant 2	Left Cheek	24.5	0.047	24.5	0.047	24.5	0.047	24.5	0.155	24.5	0.155	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.202	0.202	0.970	0.643	0.800	0.751	0.600	0.444	0.561		
			Right Cheek	24.5	0.036	24.5	0.036	24.5	0.036	22.5	0.641	22.5	0.641	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.677	0.357	0.674	0.665	0.722	0.618	0.639	0.503	0.583		
			Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	22.5	0.459	22.5	0.459	0.230	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.460	0.231	0.541	0.429	0.465	0.481	0.421	0.374	0.366	
LTE Band 12 / 17_Ant 2		Left Cheek	24.5	0.047	24.5	0.047	24.5	0.047	22.5	0.602	22.5	0.602	0.302	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.649	0.349	1.117	0.790	0.947	0.898	0.747	0.591	0.708		
		Right Cheek	24.5	0.036	24.5	0.036	24.5	0.036	25.5	0.343	25.5	0.343	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.379	0.379	0.696	0.687	0.744	0.640	0.661	0.525	0.605			
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.240	25.5	0.240	0.240	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.241	0.241	0.551	0.439	0.475	0.491	0.431	0.384	0.376		

n12_Ant 0	LTE Band 26 / 5_Ant 0	Right Cheek	24.5	0.036	24.5	0.036	24.5	0.036	25.5	0.125	25.5	0.125	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.161	0.161	0.478	0.469	0.526	0.422	0.443	0.307	0.387		
			Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.058	25.5	0.058	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.059	0.059	0.369	0.257	0.293	0.309	0.249	0.202	0.194	
n7_Ant 1	LTE Band 12 / 17_Ant 0	Left Cheek	24.5	0.047	24.5	0.047	24.5	0.047	25.5	0.052	25.5	0.052	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.099	0.099	0.867	0.540	0.697	0.648	0.497	0.341	0.458		
		Right Cheek	24.5	0.036	24.5	0.036	24.5	0.036	25.5	0.090	25.5	0.090	0.250	0.090	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.126	0.126	0.443	0.434	0.491	0.387	0.408	0.272	0.352
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.038	25.5	0.038	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.039	0.039	0.349	0.237	0.273	0.289	0.229	0.182	0.174		
	LTE Band 26 / 5_Ant 2	Left Cheek	24.5	0.047	24.5	0.047	24.5	0.047	25.5	0.043	25.5	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.090	0.090	0.858	0.531	0.688	0.639	0.488	0.332	0.449		
		Right Cheek	24.5	0.036	24.5	0.036	24.5	0.036	24.5	0.070	24.5	0.070	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.106	0.106	0.423	0.414	0.471	0.367	0.388	0.252	0.332		
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	24.5	0.061	24.5	0.061	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.062	0.062	0.372	0.260	0.296	0.312	0.252	0.205	0.197		
	n38_Ant 9	LTE Band 26 / 5_Ant 2	Left Cheek	24.5	0.047	24.5	0.047	24.5	0.047	24.5	0.155	24.5	0.155	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.202	0.202	0.970	0.643	0.800	0.751	0.600	0.444	0.561	
			Right Cheek	24.5	0.036	24.5	0.036	24.5	0.036	22.5	0.641	22.5	0.641	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.677	0.357	0.674	0.665	0.722	0.618	0.639	0.503	0.583	
			Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	22.5	0.459	22.5	0.459	0.230	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.460	0.231	0.541	0.429	0.465	0.481	0.421	0.374	0.366
LTE Band 12 / 17_Ant 2		Left Cheek	24.5	0.047	24.5	0.047	24.5	0.047	22.5	0.602	22.5	0.602	0.302	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.649	0.349	1.117	0.790	0.947	0.898	0.747	0.591	0.708	
		Right Cheek	24.5	0.036	24.5	0.036	24.5	0.036	25.5	0.343	25.5	0.343	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.379	0.379	0.696	0.687	0.744	0.640	0.661	0.525	0.605		
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.240	25.5	0.240	0.240	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.241	0.241	0.551	0.439	0.475	0.491	0.431	0.384	0.376	

n38_Ant 9	LTE Band 26 / 5_Ant 0	Right Cheek	18.0	0.632	18.0	0.632	15.5	0.355	25.5	0.125	25.5	0.125	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075
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n41_Ant 9	LTE Band 25 / 2_Ant 1	Right Cheek	18.0	0.124	18.0	0.124	15.5	0.070	25.5	0.028	25.5	0.028	22.0	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.152	0.098	0.474	0.375	0.499	0.477	0.339	0.293	0.312			
			18.0	0.632	18.0	0.632	15.5	0.355	22.5	0.641	22.5	0.641	19.5	0.321	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	1.273	0.677	0.994	0.985	1.042	0.938	0.959	0.823	0.903	
n38_Ant 11	LTE Band 26 / 5_Ant 2	Right Cheek	18.0	0.205	18.0	0.205	15.5	0.115	22.5	0.459	22.5	0.459	19.5	0.230	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.664	0.345	0.655	0.543	0.579	0.595	0.535	0.488	0.480	
		Left Cheek	18.0	0.472	18.0	0.472	15.5	0.265	22.5	0.602	22.5	0.602	19.5	0.302	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	1.074	0.567	1.335	1.008	1.165	1.116	0.965	0.809	0.926	
		Right Tilted	18.0	0.124	18.0	0.124	15.5	0.070	22.5	0.482	22.5	0.482	19.5	0.242	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.606	0.311	0.687	0.588	0.712	0.690	0.552	0.506	0.525	
		Left Tilted	18.0	0.632	18.0	0.632	15.5	0.355	25.5	0.343	25.5	0.343	25.5	0.343	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.975	0.688	1.015	1.006	1.063	0.959	0.980	0.844	0.924	
	LTE Band 12 / 17_Ant 2	Right Cheek	18.0	0.205	18.0	0.205	15.5	0.115	25.5	0.240	25.5	0.240	25.5	0.240	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.445	0.355	0.665	0.553	0.589	0.605	0.545	0.498	0.490	
		Left Cheek	18.0	0.472	18.0	0.472	15.5	0.265	25.5	0.363	25.5	0.363	25.5	0.363	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.835	0.628	1.396	1.069	1.226	1.177	1.026	0.870	0.987	
		Right Tilted	18.0	0.124	18.0	0.124	15.5	0.070	25.5	0.262	25.5	0.262	25.5	0.262	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.396	0.332	0.708	0.609	0.733	0.711	0.573	0.527	0.546	
		Left Tilted	18.0	0.632	18.0	0.632	15.5	0.355	25.5	0.575	25.5	0.575	23.0	0.323	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	1.207	0.679	0.996	0.987	1.044	0.940	0.961	0.825	0.905	
	LTE Band 71_Ant 2	Right Cheek	18.0	0.205	18.0	0.205	15.5	0.115	25.5	0.417	25.5	0.417	23.0	0.234	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.622	0.350	0.660	0.548	0.584	0.600	0.540	0.493	0.485	
		Left Cheek	18.0	0.472	18.0	0.472	15.5	0.265	25.5	0.521	25.5	0.521	23.0	0.293	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.993	0.558	1.326	0.999	1.156	1.107	0.956	0.800	0.917	
		Right Tilted	18.0	0.124	18.0	0.124	15.5	0.070	25.5	0.439	25.5	0.439	23.0	0.247	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.563	0.317	0.693	0.594	0.718	0.696	0.558	0.512	0.531	
		Left Tilted	18.0	0.632	18.0	0.632	15.5	0.355	25.5	0.575	25.5	0.575	23.0	0.323	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	1.207	0.679	0.996	0.987	1.044	0.940	0.961	0.825	0.905	
n38_Ant 9	LTE Band 26 / 5_Ant 0	Right Cheek	24.5	0.006	24.5	0.006	24.5	0.006	25.5	0.125	25.5	0.125	25.5	0.125	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.131	0.131	0.448	0.439	0.496	0.392	0.413	0.277	0.357	
		Left Cheek	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.058	25.5	0.058	25.5	0.058	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.059	0.059	0.369	0.257	0.293	0.309	0.249	0.202	0.194	
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.052	25.5	0.052	25.5	0.052	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.053	0.053	0.821	0.494	0.651	0.602	0.451	0.295	0.412	
		Left Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.050	25.5	0.050	25.5	0.050	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.051	0.051	0.427	0.328	0.452	0.430	0.292	0.246	0.265	
	LTE Band 12 / 17_Ant 0	Right Cheek	24.5	0.006	24.5	0.006	24.5	0.006	25.5	0.090	25.5	0.090	25.5	0.090	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.096	0.096	0.413	0.404	0.461	0.357	0.378	0.242	0.322	
		Left Cheek	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.038	25.5	0.038	25.5	0.038	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.039	0.039	0.849	0.349	0.237	0.273	0.289	0.229	0.182	0.174
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.043	25.5	0.043	25.5	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.044	0.044	0.812	0.485	0.642	0.593	0.442	0.286	0.403	
		Left Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.034	25.5	0.034	25.5	0.034	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.035	0.035	0.411	0.312	0.436	0.414	0.276	0.230	0.249	
	LTE Band 71_Ant 0	Right Cheek	24.5	0.006	24.5	0.006	24.5	0.006	25.5	0.070	25.5	0.070	25.5	0.070	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.076	0.076	0.393	0.384	0.441	0.337	0.358	0.222	0.302	
		Left Cheek	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.036	25.5	0.036	25.5	0.036	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.037	0.037	0.347	0.235	0.271	0.287	0.227	0.180	0.172	
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.043	25.5	0.043	25.5	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.044	0.044	0.812	0.485	0.642	0.593	0.442	0.286	0.403	
		Left Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.028	25.5	0.028	25.5	0.028	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.029	0.029	0.405	0.306	0.430	0.408	0.270	0.224	0.243	
LTE Band 26 / 5_Ant 2	Right Cheek	24.5	0.001	24.5	0.001	24.5	0.001	22.5	0.459	22.5	0.459	19.5	0.230	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.647	0.327	0.644	0.635	0.692	0.588	0.609	0.473	0.366		
	Left Cheek	24.5	0.001	24.5	0.001	24.5	0.001	22.5	0.602	22.5	0.602	19.5	0.302	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.603	0.303	1.071	0.744	0.901	0.852	0.701	0.545	0.662		
	Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	22.5	0.482	22.5	0.482	19.5	0.242	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.483	0.243	0.619	0.520	0.644	0.622	0.484	0.438	0.457		
	Left Tilted	24.5	0.006	24.5	0.006	24.5	0.006	25.5	0.343	25.5	0.343	25.5	0.343	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.349	0.349	0.666	0.657	0.714	0.610	0.631	0.495	0.575		
LTE Band 12 / 17_Ant 2	Right Cheek	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.240	25.5	0.240	25.5	0.240	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.241	0.241	0.551	0.439	0.475	0.491	0.431	0.384	0.376		
	Left Cheek	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.363	25.5	0.363	25.5	0.363	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.364	0.364	1.132	0.805	0.962	0.913	0.762	0.606	0.723		
	Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.262	25.5	0.262	25.5	0.262	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.263	0.263	0.639	0.540	0.664	0.642	0.504	0.458	0.477		
	Left Tilted	24.5	0.006	24.5	0.006	24.5	0.006	25.5	0.575	25.5	0.575	23.0	0.323	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.581	0.329	0.646	0.637	0.694	0.690	0.611	0.475	0.555		
LTE Band 71_Ant 2	Right Cheek	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.417	25.5	0.417	23.0	0.234	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.418	0.235	0.545	0.433	0.469	0.485	0.425	0.378	0.370		
	Left Cheek	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.521	25.5	0.521	23.0	0.293	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.522	0.294	1.062	0.735	0.892	0.843	0.692	0.536	0.653		
	Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.439	25.5	0.439	23.0	0.247	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.440	0.248	0.624	0.525	0.649	0.627	0.489	0.443	0.462		
	Left Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.078	25.5	0.078	25.5	0.078	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.550	0.343	1.111	0.784	0.941	0.892	0.741	0.585	0.702		
n38_Ant 11	LTE Band 25 / 2_Ant 1	Right Cheek	18.0	0.632	18.0	0.632	15.5	0.355	25.5	0.122	25.5	0.122	25.5	0.122	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.754	0.477	0.794	0.785	0.842	0.738	0.759	0.623	0.703	
		Left Cheek	18.0	0.472	18.0	0.472	15.5	0.265	25.5	0.078	25.5	0.078	25.5	0.078	0.350	0.088	0.358	0.090	0.371													



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n41_Ant 1	66/4_Ant 1	Right Tilted	17.5	0.113	17.5	0.113	16.5	0.090	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.114	0.091	0.401	0.289	0.325	0.341	0.281	0.234	0.226
		Left Cheek	17.5	0.229	17.5	0.229	16.5	0.182	25.5	0.034	25.5	0.034	25.5	0.034	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.263	0.216	0.984	0.657	0.814	0.765	0.614	0.458	0.575
		Left Tilted	17.5	0.068	17.5	0.068	16.5	0.054	25.5	0.001	25.5	0.001	25.5	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.069	0.055	0.431	0.332	0.456	0.434	0.296	0.250	0.269
	LTE Band 25 / 2_Ant 1	Right Tilted	24.0	0.001	24.0	0.001	24.0	0.001	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.002	0.002	0.312	0.200	0.236	0.252	0.192	0.145	0.137
		Left Cheek	24.0	0.001	24.0	0.001	24.0	0.001	25.5	0.078	25.5	0.078	25.5	0.078	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.079	0.079	0.847	0.520	0.677	0.628	0.477	0.321	0.438
		Left Tilted	24.0	0.001	24.0	0.001	24.0	0.001	25.5	0.001	25.5	0.001	25.5	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.002	0.002	0.378	0.279	0.403	0.381	0.243	0.197	0.216
n71_Ant 0	LTE Band 66 / 4_Ant 1	Right Cheek	24.0	0.004	24.0	0.004	24.0	0.004	25.5	0.050	25.5	0.050	25.5	0.050	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.054	0.054	0.371	0.362	0.419	0.315	0.336	0.200	0.280
		Right Tilted	24.0	0.001	24.0	0.001	24.0	0.001	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.002	0.002	0.312	0.200	0.236	0.252	0.192	0.145	0.137
		Left Cheek	24.0	0.001	24.0	0.001	24.0	0.001	25.5	0.034	25.5	0.034	25.5	0.034	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.035	0.035	0.803	0.476	0.633	0.584	0.433	0.277	0.394
	LTE Band 25 / 2_Ant 1	Right Tilted	24.5	0.109	24.5	0.109	24.5	0.109	25.5	0.122	25.5	0.122	25.5	0.122	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.231	0.231	0.548	0.539	0.596	0.492	0.513	0.377	0.457
		Left Cheek	24.5	0.098	24.5	0.098	24.5	0.098	25.5	0.078	25.5	0.078	25.5	0.078	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.176	0.176	0.944	0.617	0.774	0.725	0.574	0.418	0.535
		Left Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.001	25.5	0.001	25.5	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.002	0.002	0.378	0.279	0.403	0.381	0.243	0.197	0.216
n71_Ant 2	LTE Band 7_Ant 1	Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.039	25.5	0.039	25.5	0.039	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.040	0.040	0.350	0.238	0.274	0.290	0.230	0.183	0.175
		Left Cheek	24.5	0.098	24.5	0.098	24.5	0.098	25.5	0.060	25.5	0.060	25.5	0.060	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.158	0.158	0.926	0.599	0.756	0.707	0.556	0.400	0.517
		Left Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.001	25.5	0.001	25.5	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.002	0.002	0.378	0.279	0.403	0.381	0.243	0.197	0.216
	LTE Band 66 / 4_Ant 1	Right Cheek	24.5	0.109	24.5	0.109	24.5	0.109	25.5	0.050	25.5	0.050	25.5	0.050	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.159	0.159	0.476	0.467	0.524	0.420	0.441	0.305	0.385
		Right Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.002	0.002	0.312	0.200	0.236	0.252	0.192	0.145	0.137
		Left Cheek	24.5	0.098	24.5	0.098	24.5	0.098	25.5	0.034	25.5	0.034	25.5	0.034	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.132	0.132	0.900	0.573	0.730	0.681	0.530	0.374	0.491
n71_Ant 1	LTE Band 25 / 2_Ant 1	Right Cheek	24.5	0.154	24.5	0.154	24.5	0.154	25.5	0.122	25.5	0.122	25.5	0.122	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.276	0.276	0.593	0.584	0.641	0.537	0.558	0.422	0.502
		Right Tilted	24.5	0.097	24.5	0.097	24.5	0.097	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.098	0.098	0.408	0.296	0.332	0.348	0.288	0.241	0.233
		Left Cheek	24.5	0.248	24.5	0.248	24.5	0.248	25.5	0.078	25.5	0.078	25.5	0.078	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.326	0.326	1.094	0.767	0.924	0.875	0.724	0.568	0.685
	LTE Band 7_Ant 1	Right Tilted	24.5	0.107	24.5	0.107	24.5	0.107	25.5	0.001	25.5	0.001	25.5	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.108	0.108	0.484	0.385	0.509	0.487	0.349	0.303	0.322
		Left Cheek	24.5	0.154	24.5	0.154	24.5	0.154	25.5	0.037	25.5	0.037	25.5	0.037	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.191	0.191	0.508	0.499	0.556	0.452	0.473	0.337	0.417
		Left Tilted	24.5	0.097	24.5	0.097	24.5	0.097	25.5	0.039	25.5	0.039	25.5	0.039	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.136	0.136	0.446	0.334	0.370	0.386	0.326	0.279	0.271
LTE Band 66 / 4_Ant 1	Right Cheek	24.5	0.248	24.5	0.248	24.5	0.248	25.5	0.060	25.5	0.060	25.5	0.060	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.308	0.308	1.076	0.749	0.906	0.857	0.706	0.550	0.667	
	Right Tilted	24.5	0.107	24.5	0.107	24.5	0.107	25.5	0.001	25.5	0.001	25.5	0.001	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.108	0.108	0.484	0.385	0.509	0.487	0.349	0.303	0.322	
	Left Cheek	24.5	0.154	24.5	0.154	24.5	0.154	25.5	0.050	25.5	0.050	25.5	0.050	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.204	0.204	0.521	0.512	0.569	0.465	0.486	0.350	0.430	

WWAN Band	Exposure Position	NR Standalone Maximum Power (dBm)	NR Standalone 1g SAR (W/kg)	10		0		11		1		2		3		4		5		6		7		8		9		10+11 Summed 1g SAR (W/kg)	0+1 Summed 1g SAR (W/kg)	0+1+7 Summed 1g SAR (W/kg)	0+1+2+5+9 Summed 1g SAR (W/kg)	0+1+3+4+8 Summed 1g SAR (W/kg)	0+1+7+8 Summed 1g SAR (W/kg)	0+1+7+9 Summed 1g SAR (W/kg)	0+1+5+8 Summed 1g SAR (W/kg)	0+1+4+9 Summed 1g SAR (W/kg)
				EN-DC Active NR Maximum Power (dBm)	NR Estimated 1g SAR (W/kg)	EN-DC+ WLAN NR Maximum Power (dBm)	NR Estimated 1g SAR (W/kg)	EN-DC Active LTE Maximum Power (dBm)	LTE Estimated 1g SAR (W/kg)	EN-DC+ WLAN LTE Maximum Power (dBm)	LTE Estimated 1g SAR (W/kg)	EN-DC Active WLAN Ant 4	LTE Estimated 1g SAR (W/kg)	2.4GHz WLAN Ant 4	1g SAR (W/kg)	2.4GHz WLAN Ant 5	1g SAR (W/kg)	Max 5GHz WLAN / WiFi Ant 4	1g SAR (W/kg)	Max 5GHz WLAN / WiFi Ant 5	1g SAR (W/kg)	2.4GHz WLAN Ant 4+5	1g SAR (W/kg)	Max 5GHz WLAN Ant 4+5	1g SAR (W/kg)	Bluetooth Ant 4	1g SAR (W/kg)									
n66_Ant 1	LTE Band 25 / 5_Ant 0	Right Cheek	24.5	0.039	24.5	0.039	24.5	0.039	25.5	0.125	25.5	0.125	25.5	0.125	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.164	0.164	0.481	0.472	0.529	0.425	0.446	0.310	0.390					
		Right Tilted	24.5	0.012	24.5	0.012	24.5	0.012	25.5	0.058	25.5	0.058	25.5	0.058	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.070	0.070	0.380	0.268	0.304	0.320	0.260	0.213	0.205					
		Left Cheek	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.052	25.5	0.052	25.5	0.052	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.053	0.053	0.821	0.494	0.651	0.602	0.451	0.295	0.412					
	LTE Band 12 / 17_Ant 0	Right Tilted	24.5	0.039	24.5	0.039	24.5	0.039	25.5	0.090	25.5	0.090	25.5	0.090	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.129	0.129	0.446	0.437	0.494	0.390	0.411	0.275	0.355					
		Left Cheek	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.043	25.5	0.043	25.5	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.044	0.044	0.812	0.485	0.642	0.593	0.442	0.286	0.403					
		Left Tilted	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.034	25.5	0.034	25.5	0.034	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.035	0.035	0.411	0.312	0.436	0.414	0.276	0.230	0.249					
	LTE Band 13_Ant 0	Right Cheek	24.5	0.039	24.5	0.039	24.5	0.039	25.5	0.105	25.5	0.105	25.5	0.105	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.144	0.144	0.461	0.452	0.509	0.405	0.426	0.290	0.370					
		Right Tilted	24.5	0.012	24.5	0.012	24.5	0.012	25.5	0.055	25.5	0.055	25.5	0.055	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.067	0.067	0.377	0.265	0.301	0.317	0.257	0.210	0.202					
		Left Cheek	24.5	0.001	24.5	0.001	24.5	0.001	25.5	0.061	25.5	0.061	25.5	0.061	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.062	0.062	0.830	0.503	0.660	0.611	0.460	0.304	0.421					
	LTE Band 71_Ant 0	Right Cheek	24.5	0.039	24.5	0.039	24.5	0.039	25.5	0.070	25.5	0.070	25.5	0.070	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.109	0.109	0.426	0.417										



FCC SAR TEST REPORT

Report No. : FA082114A

11	12/17 Ant 0	Right Tilted	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.038	25.5	0.038	25.5	0.038	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.039	0.039	0.349	0.237	0.273	0.289	0.229	0.182	0.174
		Left Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.043	25.5	0.043	25.5	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.044	0.044	0.812	0.485	0.642	0.593	0.442	0.286	0.403
		Left Tilted	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.034	25.5	0.034	25.5	0.034	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.035	0.035	0.411	0.312	0.436	0.414	0.276	0.230	0.249
	LTE Band 13_Ant 0	Right Tilted	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.055	25.5	0.055	25.5	0.055	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.056	0.056	0.423	0.254	0.290	0.367	0.388	0.252	0.332
		Left Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.061	25.5	0.061	25.5	0.061	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.062	0.062	0.830	0.503	0.660	0.611	0.460	0.304	0.421
		Left Tilted	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.045	25.5	0.045	25.5	0.045	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.046	0.046	0.422	0.323	0.447	0.425	0.287	0.241	0.260
	LTE Band 12 / 17_Ant 2	Right Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.343	25.5	0.343	25.5	0.343	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.344	0.344	0.661	0.652	0.709	0.605	0.626	0.490	0.570
		Right Tilted	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.240	25.5	0.240	25.5	0.240	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.241	0.241	0.551	0.439	0.475	0.491	0.431	0.384	0.376
		Left Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.363	25.5	0.363	25.5	0.363	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.364	0.364	1.132	0.805	0.962	0.913	0.762	0.606	0.723
	LTE Band 13_Ant 2	Right Tilted	22.0	0.001	22.0	0.001	22.0	0.001	25.0	0.541	25.0	0.541	22.0	0.271	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.687	0.345	0.662	0.653	0.710	0.606	0.627	0.491	0.571
		Left Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.0	0.648	25.0	0.648	22.0	0.325	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.649	0.326	1.094	0.767	0.924	0.875	0.724	0.588	0.685
		Left Tilted	22.0	0.001	22.0	0.001	22.0	0.001	25.0	0.535	25.0	0.535	22.0	0.268	0.220	0.049	0.213	0.056	0.136	0.240	0.139	0.001	0.536	0.269	0.645	0.546	0.670	0.648	0.510	0.464	0.483

WWAN Band	Exposure Position	NR Stations Maximum Power (dBm)	NR Stations	EN-DC Active NR Maximum Power (dBm)	10		0		LTE Stations Maximum Power (dBm)	LTE Stations	EN-DC Active LTE Maximum Power (dBm)	11		EN-DC + WLAN LTE Maximum Power (dBm)	1		2		3		4		5		6		7		8		9		10+11 Summed 1g SAR (W/kg)	0+1 Summed 1g SAR (W/kg)	0+1+6+7 Summed 1g SAR (W/kg)	0+1+2+5+9 Summed 1g SAR (W/kg)	0+1+3+4+8 Summed 1g SAR (W/kg)	0+1+7+8 Summed 1g SAR (W/kg)	0+1+7+9 Summed 1g SAR (W/kg)	0+1+5+8 Summed 1g SAR (W/kg)	0+1+4+9 Summed 1g SAR (W/kg)
					NR Estimated	EN-DC + WLAN NR Maximum Power (dBm)	NR Estimated	LTE Stations Maximum Power (dBm)				EN-DC Active LTE Maximum Power (dBm)	LTE Estimated		EN-DC + WLAN LTE Maximum Power (dBm)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)									
n77 / n78_Ant 9	LTE Band 25 / 2_Ant 1	Right Cheek	20.0	0.699	20.0	0.699	17.0	0.350	25.5	0.122	25.5	0.122	25.5	0.122	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.821	0.472	0.789	0.780	0.837	0.733	0.754	0.618	0.698										
		Right Tilted	20.0	0.234	20.0	0.234	17.0	0.117	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.235	0.118	0.428	0.316	0.352	0.368	0.308	0.261	0.253										
		Left Cheek	20.0	0.480	20.0	0.480	17.0	0.241	25.5	0.078	25.5	0.078	25.5	0.078	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.558	0.319	1.087	0.760	0.917	0.868	0.717	0.561	0.678										
	LTE Band 7_Ant 1	Right Cheek	20.0	0.699	20.0	0.699	17.0	0.350	25.5	0.037	25.5	0.037	25.5	0.037	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.736	0.387	0.704	0.695	0.752	0.648	0.669	0.533	0.613										
		Right Tilted	20.0	0.234	20.0	0.234	17.0	0.117	25.5	0.039	25.5	0.039	25.5	0.039	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.273	0.156	0.466	0.354	0.390	0.406	0.346	0.299	0.291										
		Left Cheek	20.0	0.480	20.0	0.480	17.0	0.241	25.5	0.060	25.5	0.060	25.5	0.060	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.540	0.301	1.069	0.742	0.899	0.850	0.699	0.543	0.660										
	LTE Band 41 / 38_Ant 1	Right Cheek	20.0	0.699	20.0	0.699	17.0	0.350	25.5	0.021	25.5	0.021	25.5	0.021	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.720	0.371	0.688	0.679	0.736	0.632	0.653	0.517	0.597										
		Right Tilted	20.0	0.234	20.0	0.234	17.0	0.117	25.5	0.016	25.5	0.016	25.5	0.016	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.250	0.133	0.443	0.331	0.367	0.383	0.323	0.276	0.268										
		Left Cheek	20.0	0.480	20.0	0.480	17.0	0.241	25.5	0.043	25.5	0.043	25.5	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.523	0.284	1.052	0.725	0.882	0.833	0.682	0.526	0.643										
	LTE Band 66 / 4_Ant 1	Right Cheek	20.0	0.699	20.0	0.699	17.0	0.350	25.5	0.050	25.5	0.050	25.5	0.050	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.749	0.400	0.717	0.708	0.765	0.661	0.682	0.546	0.626										
		Right Tilted	20.0	0.234	20.0	0.234	17.0	0.117	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.235	0.118	0.428	0.316	0.352	0.368	0.308	0.261	0.253										
		Left Cheek	20.0	0.480	20.0	0.480	17.0	0.241	25.5	0.034	25.5	0.034	25.5	0.034	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.514	0.275	1.043	0.716	0.873	0.824	0.673	0.517	0.634										
n77 / n78_Ant 11	LTE Band 25 / 2_Ant 1	Right Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.122	25.5	0.122	25.5	0.122	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.123	0.123	0.440	0.431	0.488	0.384	0.405	0.269	0.349										
		Right Tilted	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.001	25.5	0.001	25.5	0.001	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.002	0.002	0.312	0.200	0.236	0.252	0.192	0.145	0.137										
		Left Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.078	25.5	0.078	25.5	0.078	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.079	0.079	0.847	0.520	0.677	0.628	0.477	0.321	0.438										
	LTE Band 7_Ant 1	Right Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.037	25.5	0.037	25.5	0.037	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.038	0.038	0.355	0.346	0.403	0.299	0.320	0.184	0.264										
		Right Tilted	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.039	25.5	0.039	25.5	0.039	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.040	0.040	0.350	0.238	0.274	0.290	0.230	0.183	0.175										
		Left Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.060	25.5	0.060	25.5	0.060	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.061	0.061	0.829	0.502	0.659	0.610	0.459	0.303	0.420										
	LTE Band 41 / 38_Ant 1	Right Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.021	25.5	0.021	25.5	0.021	0.141	0.160	0.151	0.092	0.110	0.207	0.054	0.075	0.022	0.022	0.339	0.330	0.387	0.283	0.304	0.168	0.248										
		Right Tilted	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.016	25.5	0.016	25.5	0.016	0.115	0.039	0.134	0.082	0.121	0.189	0.061	0.001	0.017	0.017	0.327	0.215	0.251	0.267	0.207	0.160	0.152										
		Left Cheek	22.0	0.001	22.0	0.001	22.0	0.001	25.5	0.043	25.5	0.043	25.5	0.043	0.350	0.088	0.358	0.090	0.371	0.397	0.152	0.001	0.044	0.044	0.812	0.485	0.642	0.593	0.442	0.286	0.403										
	LTE Band 66 / 4_Ant 1	Right Cheek	22.0	0.001	22.0	0.001																																			



15.2 Hotspot Exposure Conditions

<EN-DC active with WLAN/BT Normal Mode>

Table with columns: Wwan Band, Exposure Position, NR Standalone Maximum Power (dBm), EN-DC + WLAN NR Maximum Power (dBm), LTE Standalone Maximum Power (dBm), EN-DC + WLAN LTE Maximum Power (dBm), and various SAR (W/kg) values for frequencies 1-9 and summed values.



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Band	Antenna	Side	Frequency (MHz)											Power (dBm)													
			24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
LTE Band 12 / 17_Ant 2	Right side	Top side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Bottom side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Front	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
	Back	Top side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Bottom side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Front	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
	Left side	Top side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Bottom side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Front	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
	LTE Band 13_Ant 2	Right side	Top side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5
			Bottom side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5
			Front	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5
Back		Top side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Bottom side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Front	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
Left side		Top side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Bottom side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Front	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
n25_Ant 1		Right side	Top side	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5
			Bottom side	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5
			Front	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5
	Back	Top side	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	
		Bottom side	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	
		Front	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	
	Left side	Top side	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	
		Bottom side	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	
		Front	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.5	37.0	38.5	39.5	
	n25_Ant 8	Right side	Top side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5
			Bottom side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5
			Front	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5
Back		Top side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Bottom side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Front	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
Left side		Top side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Bottom side	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
		Front	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	

WWAN Band	Exposure Position	NR Standalone Maximum Power (dBm)	NR Standalone 1g SAR (W/kg)	EN-DC+WLAN NR Maximum Power (dBm)	NR Estimated 1g SAR (W/kg)	LTE Standalone Maximum Power (dBm)	LTE Standalone 1g SAR (W/kg)	EN-DC+WLAN LTE Maximum Power (dBm)	LTE Estimated 1g SAR (W/kg)	Frequency (MHz)									Power (dBm)								
										1	2	3	4	5	6	7	8	9	0+1 Summed 1g SAR (W/kg)	0+1+6+7 Summed 1g SAR (W/kg)	0+1+2+5+9 Summed 1g SAR (W/kg)	0+1+3+4+8 Summed 1g SAR (W/kg)	0+1+7+8 Summed 1g SAR (W/kg)	0+1+7+9 Summed 1g SAR (W/kg)	0+1+5+8 Summed 1g SAR (W/kg)	0+1+4+9 Summed 1g SAR (W/kg)	
LTE Band 25 / 2_Ant 1	Front	24.5	0.225	24.5	0.225	23.0	0.401	19.0	0.160	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.385	0.862	0.818	0.902	0.669	0.647	0.662	0.561		
		24.5	0.326	24.5	0.326	23.0	0.527	19.0	0.210	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.536	1.165	1.162	1.091	1.031	0.990	0.982	0.764		
		24.5	0.001	24.5	0.001	23.0	0.474	19.0	0.189	0.000	0.215	0.056	0.364	0.073	0.084	0.000	0.437	0.215	0.140	0.157	0.073	0.084	0.056	0.000	0.000		
	Back	24.5	0.225	24.5	0.225	24.0	0.388	20.5	0.173	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.398	0.875	0.831	0.915	0.682	0.660	0.695	0.574		
		24.5	0.326	24.5	0.326	24.0	0.686	20.5	0.306	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.632	1.261	1.258	1.187	1.127	1.086	1.078	0.860		
		24.5	0.001	24.5	0.001	24.0	0.525	20.5	0.235	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236	0.236		
	Left side	24.5	0.001	24.5	0.001	23.0	0.060	19.0	0.024	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.025	0.731	0.542	0.583	0.435	0.444	0.380	0.196		
		24.5	0.234	24.5	0.234	23.0	1.069	19.0	0.426	0.000	0.056	0.364	0.073	0.084	0.000	0.437	0.215	0.140	0.157	0.073	0.084	0.056	0.000	0.000			
		24.5	0.001	24.5	0.001	23.0	0.001	19.0	0.000	0.215	0.056	0.364	0.073	0.084	0.000	0.437	0.215	0.140	0.157	0.073	0.084	0.056	0.000	0.000			
	n5_Ant 0	Right side	24.5	0.225	24.5	0.225	25.5	0.291	24.0	0.206	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.431	0.908	0.864	0.948	0.715	0.693	0.728	0.607	
			24.5	0.326	24.5	0.326	25.5	0.411	24.0	0.291	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.617	1.246	1.243	1.172	1.112	1.071	1.063	0.845	
			24.5	0.001	24.5	0.001	25.5	0.320	24.0	0.227	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090	0.							



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n5_Ant 2	LTE Band 25 / 2_Ant 1	Left side	24.5	0.001	24.5	0.001	25.0	1.122	20.0	0.355											0.356	0.356	0.356	0.356	0.356	0.356	0.356	0.356
		Right side	24.5	0.001	24.5	0.001	25.0	0.001	20.0	0.000	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090			0.001	0.707	0.518	0.559	0.411	0.420	0.356	0.172
		Top side	24.5		24.5		25.0	0.001	20.0	0.000	0.215		0.056		0.364	0.073	0.084				0.000	0.437	0.215	0.140	0.157	0.073	0.084	0.056
		Bottom side	24.5	0.234	24.5	0.234	25.0	0.073	20.0	0.023												0.257	0.257	0.257	0.257	0.257	0.257	0.257
	LTE Band 7_Ant 1	Front	24.5	0.357	24.5	0.357	23.0	0.401	19.0	0.160	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061			0.517	0.994	0.950	1.034	0.801	0.779	0.814	0.693
		Back	24.5	0.353	24.5	0.353	23.0	0.527	19.0	0.210	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055			0.563	1.192	1.189	1.118	1.058	1.017	1.009	0.791
		Left side	24.5	0.002	24.5	0.002	23.0	0.474	19.0	0.189											0.191	0.191	0.191	0.191	0.191	0.191	0.191	0.191
		Right side	24.5	0.155	24.5	0.155	23.0	0.060	19.0	0.024	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090			0.179	0.885	0.696	0.737	0.589	0.598	0.534	0.350
	LTE Band 66 / 4_Ant 1	Top side	24.5	0.228	24.5	0.228	23.0	0.001	19.0	0.000	0.215		0.056		0.364	0.073	0.084				0.228	0.665	0.443	0.368	0.385	0.301	0.312	0.284
		Bottom side	24.5		24.5		23.0	1.069	19.0	0.426											0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426
		Front	24.5	0.357	24.5	0.357	24.0	0.388	20.5	0.173	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061			0.530	1.007	0.963	1.047	0.814	0.792	0.827	0.706
		Back	24.5	0.353	24.5	0.353	24.0	0.686	20.5	0.306	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055			0.659	1.288	1.285	1.214	1.154	1.113	1.105	0.887
LTE Band 66 / 4_Ant 1	Left side	24.5	0.002	24.5	0.002	24.0	0.525	20.5	0.235											0.237	0.237	0.237	0.237	0.237	0.237	0.237	0.237	
	Right side	24.5	0.155	24.5	0.155	24.0	0.099	20.5	0.044	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090			0.199	0.905	0.716	0.757	0.609	0.618	0.554	0.370	
	Top side	24.5	0.228	24.5	0.228	24.0	0.001	20.5	0.000	0.215		0.056		0.364	0.073	0.084				0.228	0.665	0.443	0.368	0.385	0.301	0.312	0.284	
	Bottom side	24.5		24.5		24.0	1.031	20.5	0.461											0.461	0.461	0.461	0.461	0.461	0.461	0.461	0.461	
LTE Band 66 / 4_Ant 1	Front	24.5	0.357	24.5	0.357	25.5	0.291	24.0	0.206	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061			0.563	1.040	0.996	1.080	0.847	0.825	0.860	0.739	
	Back	24.5	0.353	24.5	0.353	25.5	0.411	24.0	0.291	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055			0.644	1.273	1.270	1.199	1.139	1.098	1.090	0.872	
	Left side	24.5	0.002	24.5	0.002	25.5	0.320	24.0	0.227											0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	
	Right side	24.5	0.155	24.5	0.155	25.5	0.001	24.0	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090			0.156	0.862	0.673	0.714	0.566	0.575	0.511	0.327	
LTE Band 25 / 2_Ant 8	Top side	24.5	0.228	24.5	0.228	25.5	0.001	24.0	0.001	0.215		0.056		0.364	0.073	0.084				0.229	0.666	0.444	0.369	0.386	0.302	0.313	0.285	
	Bottom side	24.5		24.5		25.5	0.623	24.0	0.441											0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	
	Front	24.5	0.357	24.5	0.357	24.0	0.534	18.5	0.151	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061			0.508	0.985	0.941	1.025	0.792	0.770	0.805	0.684	
	Back	24.5	0.353	24.5	0.353	24.0	0.457	18.5	0.129	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055			0.482	1.111	1.108	1.037	0.977	0.936	0.928	0.710	
LTE Band 7_Ant 8	Left side	24.5	0.002	24.5	0.002	24.0	1.174	18.5	0.331											0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	
	Right side	24.5	0.155	24.5	0.155	24.0	0.002	18.5	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090			0.156	0.862	0.673	0.714	0.566	0.575	0.511	0.327	
	Top side	24.5	0.228	24.5	0.228	24.0	0.064	18.5	0.018	0.215		0.056		0.364	0.073	0.084				0.246	0.683	0.461	0.386	0.403	0.319	0.330	0.302	
	Bottom side	24.5		24.5		24.0	0.105	18.5	0.030											0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	
LTE Band 66 / 4_Ant 8	Front	24.5	0.357	24.5	0.357	24.5	0.534	19.0	0.151	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061			0.508	0.985	0.941	1.025	0.792	0.770	0.805	0.684	
	Back	24.5	0.353	24.5	0.353	24.5	0.537	19.0	0.151	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055			0.504	1.133	1.130	1.059	0.999	0.958	0.950	0.732	
	Left side	24.5	0.002	24.5	0.002	24.5	1.190	19.0	0.335											0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337	
	Right side	24.5	0.155	24.5	0.155	24.5	0.001	19.0	0.000	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090			0.155	0.861	0.672	0.713	0.565	0.574	0.510	0.326	
LTE Band 66 / 4_Ant 8	Top side	24.5	0.228	24.5	0.228	24.5	0.045	19.0	0.013	0.215		0.056		0.364	0.073	0.084				0.241	0.678	0.456	0.381	0.398	0.314	0.325	0.297	
	Bottom side	24.5		24.5		24.5	0.118	19.0	0.033											0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	
	Front	24.5	0.357	24.5	0.357	25.0	0.456	20.0	0.144	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061			0.501	0.978	0.934	1.018	0.785	0.763	0.788	0.677	
	Back	24.5	0.353	24.5	0.353	25.0	0.408	20.0	0.129	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055			0.482	1.111	1.108	1.037	0.977	0.936	0.928	0.710	
LTE Band 25 / 2_Ant 1	Left side	24.5	0.002	24.5	0.002	25.0	1.122	20.0	0.355											0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	
	Right side	24.5	0.155	24.5	0.155	25.0	0.001	20.0	0.000	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090			0.155	0.861	0.672	0.713	0.565	0.574	0.510	0.326	
	Top side	24.5	0.228	24.5	0.228	25.0	0.001	20.0	0.000	0.215		0.056		0.364	0.073	0.084				0.228	0.665	0.443	0.368	0.385	0.301	0.312	0.284	
	Bottom side	24.5		24.5		25.0	0.073	20.0	0.023											0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
LTE Band 66 / 4_Ant 1	Front	24.5	0.252	24.0	0.225	23.0	0.401	19.0	0.160	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061			0.384	0.861	0.817	0.901	0.668	0.646	0.681	0.560	
	Back	24.5	0.417	24.0	0.372	23.0	0.527	19.0	0.210	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055			0.581	1.210	1.207	1.136	1.076	1.035	1.027	0.809	
	Left side	24.5	0.084	24.0	0.075	23.0	0.474	19.0	0.189											0.264	0.264	0.264	0.264	0.264	0.264	0.264	0.264	
	Right side	24.5	0.193	24.0	0.172	23.0	0.060	19.0	0.024	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090			0.196	0.902	0.713	0.754	0.606	0.615	0.551	0.367	
LTE Band 25 / 2_Ant 8	Top side	24.5		24.0		23.0	0.001	19.0	0.000	0.215		0.056		0.364	0.073	0.084				0.000	0.437	0.215	0.140	0.157	0.073	0.084	0.056	
	Bottom side	24.5	0.221	24.0	0.197	23.0	1.069	19.0	0.426											0.623	0.623	0.623	0.623	0.623	0.623	0.623	0.623	
	Front	24.5	0.252	24.0	0.225	25.5	0.291	24.0	0.206	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061			0.431	0.908	0.864	0.948	0.715	0.693	0.728	0.607	
	Back	24.5	0.417	24.0	0.372	25.5	0.411	24.0	0.291	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055			0.663	1.292	1.289	1.218	1.158	1.117	1.109	0.891	
LTE Band 66 / 4_Ant 1	Left side	24.5	0.084	24.0	0.075	25.5	0.320	24.0	0.227											0.301	0.301	0.301	0.301	0.301	0.301	0.301	0.301	
	Right side	24.5	0.193	24.0	0.172	25.5	0.001	24.0	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090			0.173	0.879	0.690	0.731	0.583	0.592	0.528	0.344	
	Top side	24.5		24.0		25.5	0.001	24.0																				



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n12_Ant 2	LTE Band 25 / 2_Ant 1	Front	24.5	0.156	24.5	0.156	23.0	0.401	19.0	0.160	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.316	0.793	0.749	0.833	0.600	0.578	0.613	0.492
		Back	24.5	0.159	24.5	0.159	23.0	0.527	19.0	0.210	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055		0.369	0.998	0.995	0.924	0.864	0.823	0.815
Left side	24.5	0.001	24.5	0.001	23.0	0.474	19.0	0.189										0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	
Right side	24.5	0.096	24.5	0.096	23.0	0.060	19.0	0.024	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090		0.120	0.826	0.637	0.678	0.530	0.539	0.475	0.291	
Top side	24.5	0.099	24.5	0.099	23.0	0.001	19.0	0.000	0.215		0.056		0.364	0.073	0.084			0.099	0.536	0.314	0.239	0.256	0.172	0.183	0.155	
Bottom side	24.5		24.5		23.0	1.069	19.0	0.426										0.426	0.426	0.426	0.426	0.426	0.426	0.426	0.426	
LTE Band 66 / 4_Ant 1	Front	24.5	0.156	24.5	0.156	25.5	0.291	24.0	0.206	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.362	0.839	0.795	0.879	0.646	0.624	0.659	0.538	
	Back	24.5	0.159	24.5	0.159	25.5	0.411	24.0	0.291	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.450	1.079	1.076	1.005	0.945	0.904	0.896	0.678	
	Left side	24.5	0.001	24.5	0.001	25.5	0.320	24.0	0.227									0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	
	Right side	24.5	0.096	24.5	0.096	25.5	0.001	24.0	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090		0.097	0.803	0.614	0.655	0.507	0.516	0.452	0.268
	Top side	24.5	0.099	24.5	0.099	25.5	0.001	24.0	0.001	0.215		0.056		0.364	0.073	0.084			0.100	0.537	0.315	0.240	0.257	0.173	0.184	0.156
	Bottom side	24.5		24.5		25.5	0.623	24.0	0.441										0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441
LTE Band 25 / 2_Ant 8	Front	24.5	0.156	24.5	0.156	24.0	0.534	18.5	0.151	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.307	0.784	0.740	0.824	0.591	0.569	0.604	0.483	
	Back	24.5	0.159	24.5	0.159	24.0	0.457	18.5	0.129	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.288	0.917	0.914	0.843	0.783	0.742	0.734	0.516	
	Left side	24.5	0.001	24.5	0.001	24.0	1.174	18.5	0.331									0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	
	Right side	24.5	0.096	24.5	0.096	24.0	0.002	18.5	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090		0.097	0.803	0.614	0.655	0.507	0.516	0.452	0.268
	Top side	24.5	0.099	24.5	0.099	24.0	0.064	18.5	0.018	0.215		0.056		0.364	0.073	0.084			0.117	0.554	0.332	0.257	0.274	0.190	0.201	0.173
	Bottom side	24.5		24.5		24.0	0.105	18.5	0.030										0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
LTE Band 66 / 4_Ant 8	Front	24.5	0.156	24.5	0.156	25.0	0.456	20.0	0.144	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.300	0.777	0.733	0.817	0.584	0.562	0.597	0.476	
	Back	24.5	0.159	24.5	0.159	25.0	0.408	20.0	0.129	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.288	0.917	0.914	0.843	0.783	0.742	0.734	0.516	
	Left side	24.5	0.001	24.5	0.001	25.0	1.122	20.0	0.355									0.356	0.356	0.356	0.356	0.356	0.356	0.356	0.356	
	Right side	24.5	0.096	24.5	0.096	25.0	0.001	20.0	0.000	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090		0.096	0.802	0.613	0.654	0.506	0.515	0.451	0.267
	Top side	24.5	0.099	24.5	0.099	25.0	0.001	20.0	0.000	0.215		0.056		0.364	0.073	0.084			0.099	0.536	0.314	0.239	0.256	0.172	0.183	0.155
	Bottom side	24.5		24.5		25.0	0.073	20.0	0.023										0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023

WWAN Band	Exposure Position	NR Standalone Maximum Power (dBm)	NR Standalone 1g SAR (W/kg)	EN-DC + WLAN NR Maximum Power (dBm)	0 NR Estimated 1g SAR (W/kg)	LTE Standalone Maximum Power (dBm)	LTE Standalone 1g SAR (W/kg)	EN-DC + WLAN LTE Maximum Power (dBm)	1 LTE Estimated 1g SAR (W/kg)	2 2.4GHz WLAN Ant 4 1g SAR (W/kg)	3 2.4GHz WLAN Ant 5 1g SAR (W/kg)	4 5GHz WLAN Ant 4 1g SAR (W/kg)	5 5GHz WLAN Ant 5 1g SAR (W/kg)	6 2.4GHz WLAN Ant 4+5 1g SAR (W/kg)	7 5GHz WLAN Ant 4+5 1g SAR (W/kg)	8 Bluetooth Ant 4 1g SAR (W/kg)	9 Bluetooth Ant 5 1g SAR (W/kg)	0-1 Summed 1g SAR (W/kg)	0-1+6-7 Summed 1g SAR (W/kg)	0-1+2+5+9 Summed 1g SAR (W/kg)	0-1+3+4+8 Summed 1g SAR (W/kg)	0-1+7+8 Summed 1g SAR (W/kg)	0-1+7+9 Summed 1g SAR (W/kg)	0-1+5+8 Summed 1g SAR (W/kg)	0-1+4+9 Summed 1g SAR (W/kg)		
																										Front	Back
n7_Ant 1	LTE Band 26 / 5_Ant 0	Front	23.5	0.385	20.5	0.193	25.5	0.433	23.0	0.243	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.436	0.913	0.869	0.953	0.720	0.698	0.733	0.612	
		Back	23.5	0.660	20.5	0.331	25.5	0.545	23.0	0.306	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.637	1.266	1.263	1.192	1.132	1.091	1.083	0.865	
		Left side	23.5	0.536	20.5	0.269	25.5	0.081	23.0	0.046										0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314
		Right side	23.5		20.5		25.5	0.178	23.0	0.100	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090		0.100	0.806	0.617	0.638	0.510	0.519	0.455	0.271
		Top side	23.5		20.5		25.5	0.001	23.0	0.001	0.215		0.056		0.364	0.073	0.084			0.001	0.438	0.216	0.141	0.158	0.074	0.085	0.057
		Bottom side	23.5	0.915	20.5	0.459	25.5	0.405	23.0	0.228										0.686	0.686	0.686	0.686	0.686	0.686	0.686	0.686
	LTE Band 12 / 17_Ant 0	Front	23.5	0.385	20.5	0.193	25.5	0.223	25.5	0.223	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.416	0.893	0.849	0.933	0.700	0.678	0.713	0.592	
		Back	23.5	0.660	20.5	0.331	25.5	0.317	25.5	0.317	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.648	1.277	1.274	1.203	1.143	1.102	1.094	0.876	
		Left side	23.5	0.536	20.5	0.269	25.5	0.063	25.5	0.063										0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332
		Right side	23.5		20.5		25.5	0.202	25.5	0.202	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090		0.202	0.908	0.719	0.760	0.612	0.621	0.557	0.373
		Top side	23.5		20.5		25.5	0.001	25.5	0.001	0.215		0.056		0.364	0.073	0.084			0.001	0.438	0.216	0.141	0.158	0.074	0.085	0.057
		Bottom side	23.5	0.915	20.5	0.459	25.5	0.179	25.5	0.179										0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638
	LTE Band 66 / 5_Ant 2	Front	23.5	0.385	20.5	0.193	20.0	0.162	20.0	0.162	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.355	0.832	0.788	0.872	0.639	0.617	0.652	0.531	
		Back	23.5	0.660	20.5	0.331	20.0	0.133	20.0	0.133	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.464	1.093	1.090	1.019	0.959	0.918	0.910	0.692	
		Left side	23.5	0.536	20.5	0.269	20.0	0.359	20.0	0.359										0.628	0.628	0.628	0.628	0.628	0.628	0.628	0.628
		Right side	23.5		20.5		20.0	0.001	20.0	0.001	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090		0.001	0.707	0.518	0.559	0.411	0.420	0.356	0.172
		Top side	23.5		20.5		20.0	0.001	20.0	0.001	0.215		0.056		0.364	0.073	0.084			0.001	0.438	0.216	0.141	0.158	0.074	0.085	0.057
		Bottom side	23.5	0.915	20.5	0.459	20.0	0.034	20.0	0.034										0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493
	LTE Band 26 / 5_Ant 2	Front	23.5	0.385	20.5	0.193	25.5	0.351	25.5	0.351	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.544	1.021	0.977	1.061	0.828	0.806	0.841	0.720	
		Back	23.5	0.660	20.5	0.331	25.5	0.307	25.5	0.307	0.221	0.286	0.173	0.350	0.230	0.399	0.096	0.055	0.638	1.267	1.264	1.193	1.133	1.092	1.084	0.866	
		Left side	23.5	0.536	20.5	0.269	25.5	0.054	25.5	0.054										0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323
		Right side	23.5		20.5		25.5	0.133	25.5	0.133	0.153	0.396	0.081	0.274	0.377	0.329	0.081	0.090		0.133	0.839	0.650	0.691	0.543	0.552	0.488	0.304
		Top side	23.5		20.5		25.5	0.247	25.5	0.247	0.215		0.056		0.364	0.073	0.084			0.247	0.684	0.462	0.387	0.404	0.320	0.331	0.303
		Bottom side	23.5	0.915	20.5	0.459	25.5	0.001	25.5	0.001										0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460
LTE Band 12 / 17_Ant 2	Front	23.5	0.385	20.5	0.193	25.5	0.089	25.5	0.089	0.158	0.319	0.115	0.214	0.276	0.201	0.083	0.061	0.282	0.759	0.715	0.799	0.566	0.54				