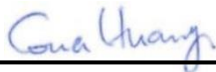


FCC SAR TEST REPORT

FCC ID : UZ7TC58AE
Equipment : Touch Computer
Brand Name : Zebra
Model Name : TC58AE
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Jan. 31, 2024 and testing was started from Feb. 01, 2024 and completed on Apr. 05, 2024. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

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



Approved by: Cona Huang / Deputy Manager



Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



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History of this test report

Report No.	Version	Description	Issued Date
FA411111B	01	Initial issue of report	May 10, 2024



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Zebra Technologies Corporation, Touch Computer , TC58AE , 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	Body-worn (Distance 15mm)	Hotspot (Distance 10mm)	Product Specific (Distance 0mm)		
		1g SAR (W/kg)					
Licensed	WCDMA II	0.68	0.73	0.75		1.59	3.25
	WCDMA IV	0.89	1.19	0.80	2.28		
	WCDMA V	0.40	0.44	0.62			
	LTE Band 7	0.05	0.21	0.72			
	LTE Band 12 / 17	0.23	0.50	0.42			
	LTE Band 13	0.34	0.42	0.49			
	LTE Band 14	0.30	0.40	0.48			
	LTE Band 2 / 25	0.67	0.98	0.80			
	LTE Band 5 / 26	0.39	0.47	0.48			
	LTE Band 30	0.30	0.27	0.78			
	LTE Band 38 / 41	0.02	0.10	0.24			
	LTE Band 48	0.63	0.46	0.80			
	LTE Band 4 / 66	0.80	1.05	0.77	2.53		
	LTE Band 71	0.22	0.47	0.43			
	FR1 n7	0.07	0.18	0.78			
	FR1 n12	0.26	0.41	0.42			
	FR1 n13	0.34	0.35	0.46			
	FR1 n14	0.34	0.38	0.53			
	FR1 n2 / n25	0.68	1.15	0.79			
	FR1 n5 / n26	0.40	0.41	0.45			
	FR1 n30	0.50	0.41	0.77			
FR1 n38 / n41	1.20	0.26	0.59				
FR1 n48	0.71	0.37	0.80				
FR1 n66	0.74	0.91	0.73	2.44			
FR1 n71	0.23	0.37	0.43				
FR1 n77 / n78	1.08	0.51	0.80	2.99			
DTS	2.4GHz WLAN	0.49	0.73	1.20		1.59	
NII	5GHz WLAN	1.08	1.12	1.20	3.20	1.59	3.25
6CD	6GHz WLAN	0.41	0.20		0.55	1.59	3.25
DSS	Bluetooth	< 0.01	< 0.01	0.02		1.59	
DXX	NFC				< 0.01		3.25
Equipment Class	Frequency Band	Head Reported APD (mW/cm ²)	Body-worn Reported APD (mW/cm ²)	Product Specific Reported APD (mW/cm ²)	Reported PD (mW/cm ²)		
6CD	6GHz WLAN	0.29	0.16	1.33	0.75		
Date of Testing:		2024/02/01 ~ 2024/04/05					

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang
Report Producer: Paula Chen



2. Equipment Under Test (EUT) Information

2.1 General Information

Product Feature & Specification	
Equipment Name	Touch Computer
Brand Name	Zebra
Model Name	TC58AE
FCC ID	UZ7TC58AE
Wireless Technology and Frequency Range	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3700 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3700 MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425MHz~6525MHz, 6525MHz~6875 MHz, 6875MHz~7125MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC : 13.56 MHz
Mode	RMC 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, 64QAM, 256QAM 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	DV1-2
SW Version	nemesis_A13_userdebug_GMS_RelKey_2023-12-12-0451_main_SE
FW Version	FUSION_QA_6_1.1.0.004_T
MFD	06DEC23
EUT Stage	Identical Prototype
Remark:	<ol style="list-style-type: none"> There are six kinds of samples as below. First RF exposure selects sample 1 to test all exposure position and sample 3 and 5 spot check worst case found sample 1. There are five batteries. RF exposure evaluation selects battery 1 as the main test and battery 2/3/4/5 spot check worst case found in battery 1. The device implements the power management and motion sensor detection for SAR compliance at different exposure conditions (head, hotspot, body-worn, Product Specific) and the Smart transmit feature will manage to ensure the power level not exceeding the associated power table. Detail power management decision include in operational description. The device support DBS mode (Dual band simultaneous) for WLAN operation, when the DBS mode is active the device will limit different maximum power for Sim-Tx SAR compliance, Details about the power management decision are provided in the operational description. The device implements the motion sensor detection for SAR compliance and the supplemental SAR tests results and Power Validation include in appendix E.



Sample List	
Sample 1	SE55 + 8GB+128G (Samsung/SK Hynix)
Sample 2	SE55 + 8GB+128G (Micron/Micron)
Sample 3	SE4720 + 6GB+64G(SK Hynix /WD)
Sample 4	SE4720 + 8GB+128G(Micron/Micron)
Sample 5	SE4770 + 6GB+64G(SK Hynix /WD)
Sample 6	SE4770 + 8GB+128G(Micron/Micron)

Specification of Accessories				
Adapter	Brand Name	Zebra	Model	SAWA-65-20005A
			Part Number	PWR-WUA5V12W0US
Battery 1 (1x)	Brand Name	Zebra	Model	BT-000442
			Part Number	BT-000442-0020
Battery 2 (1.5x)	Brand Name	Zebra	Model	BT-000442A
			Part Number	BT-000442-0820
Battery 3 (BLE battery)	Brand Name	Zebra	Model	BT-000442B
			Part Number	BT-000442-002B
Battery 4 (Wireless Battery)	Brand Name	Zebra	Model	BT-000442
			Part Number	BT-000442-002A
Battery 5 (1x)	Brand Name	Zebra	Model	BT-000442
			Part Number	BT-000442-1020
USB TYPE A to TYPE C cable	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
USB TYPE C to 3.5mm audio connector	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
3.5mm Earphone	Brand Name	Zebra	Part Number	HDST-35MM-PTT1-01
Rugged Headset	Brand Name	Zebra	Part Number	HS2100-OTH
USB TYPE C Earphone	Brand Name	Zebra	Part Number	HPST-USBC-PTT1-01
Trigger Handle	Brand Name	Zebra	Part Number	TRG-NGTC5-ELEC-01
Soft Holster	Brand Name	Zebra	Part Number	SG-NGTC5TC7-HLSTR-01
TC53/TC58 RUGGED BOOT	Brand Name	Zebra	Part Number	SG-NGTC5EXO1-01



2.2 Maximum Tune-up Limit

General Note:

1. 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.
2. The following table shows maximum output power configurations for various exposure conditions (Device State Index DSI) with tune-up tolerance accounted. For smart transmit enabled bands, the values associate with Plimit plus the total uncertainty, or Pmax plus total uncertainty when the derived Plimit is higher than Pmax. In some frequency bands, for some power DSI which associate with the same power level, conducted power measurement for those only need to perform at once.

Band	Antenna	Duty cycle	Full Power	WLAN OFF			WLAN ON	Power Back off for WLAN ON	
				Free Space Mode	Head	Body/Product Specific	Hotspot	Head	Body/Product Specific
				DSI0	DSI2	DSI1	DSI3	DSI2	DSI1
WCDMA B2	1	100.00%	25.2	25.2	25.2	24.9	23.6	-	-
WCDMA B4	1	100.00%	25.2	25.2	25.2	25	21.7	24.7	23.2
WCDMA B5	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
LTE B7	5	100.00%	25.2	25.2	25.2	22.5	23.9	-	-
LTE B12/17	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
LTE B13	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
LTE B14	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
LTE B25/2	1	100.00%	25.2	25.2	25.2	24.4	23.1	-	23.5
LTE B25/2	5	100.00%	25.2	25.2	25.2	24.4	23.3	-	-
LTE B26/5	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
LTE B30	5	100.00%	25.2	25.2	25.2	24.4	24.4	-	-
LTE B41/38(PC3)	5	63.30%	25.2	25.2	25.2	24.5	23.4	-	-
LTE B41(PC2)	5	43.30%	27	27	27	26.1	25	-	-
LTE B48	8	63.30%	24	24	24	24	24	-	-
LTE B48	9	63.30%	24	24	24	24	23.2	-	-
LTE B66/4	1	100.00%	25.2	25.2	25.2	24.3	21.7	24.7	22.6
LTE B66/4	5	100.00%	25.2	25.2	25.2	24.5	23.6	-	-
LTE B71	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
FR1 n7	5	100.00%	25.2	25.2	25.2	23.6	24.3	-	-
FR1 n12	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
FR1 n13	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
FR1 n14	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
FR1 n25/2	1	100.00%	25.2	25.2	25.2	25.2	23.8	-	23.5
FR1 n25/2	5	100.00%	25.2	25.2	25.2	24.2	22.9	-	-
FR1 n26/5	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
FR1 n30	5	100.00%	25.2	25.2	25.2	24.2	24.2	-	-
FR1 n41/38 PC3	5	100.00%	25.2	25.2	25.2	25.2	24.1	-	-
FR1 n41 PC2	5	50.00%	27	27	27	27	27	-	-
FR1 n41 PC3	2	100.00%	22	22	22	22	22	-	-
FR1 n41 PC3	3	100.00%	22	22	22	22	22	20.2	-
FR1 n41 PC3	4	100.00%	22	22	22	22	22	-	-
FR1 n48 PC3	8	100.00%	24	24	24	24	22.8	-	-
FR1 n48 PC3	9	100.00%	24	24	24	24	22.7	-	-
FR1 n66	1	100.00%	25.2	25.2	25.2	24	21.6	-	22.3
FR1 n66	5	100.00%	25.2	25.2	25.2	24.3	23.6	-	-
FR1 n71	1	100.00%	25.2	25.2	25.2	25.2	25.2	-	-
n77/n78 Part270/27Q PC3	8	100.00%	25.2	25.2	23.6	22.9	21.5	21.8	-
n77/n78 Part270/27Q PC2	8	50.00%	27	27	26.6	25.9	24.5	24.8	-
n77/n78 Part 96 PC3	8	100.00%	22	22	22	22	21.5	21.8	-
n77/n78_Part 270/27Q PC3	9	100.00%	22	22	22	20.8	17.9	-	-
n77/n78 Part 96 PC3	9	100.00%	22	22	22	20.8	17.9	-	-
n77/n78 PC3 SRS	4	100.00%	22	22	22	22	19.5	-	-
n77/n78 PC3 SRS	3	100.00%	22	22	22	22	20.3	-	-



2.3 Smart Transmit feature for RF Exposure compliance

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target or PD_design_target, below the predefined time-averaged power limit (i.e., input.power.limit for 5G mmW NR), for each characterized technology and band (refer to RF exposure part0 report)

Smart Transmit allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit EFS settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Device State Index DSI).

<Terminologies in this report>

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

<SAR Characterization>

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

<SAR design target and uncertainty>

The detail SAR design target relate to each exposure conditions pls refer to operation description

Band	Antenna	Duty cycle	WLAN OFF			WLAN ON		
			Head	Body-worn / Product Specific	Free Space Mode	Hotspot	Head	Body-worn / Product Specific
			DSI2	DSI1	DSI0	DSI3	DSI2	DSI1
WCDMA II	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
WCDMA IV	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
WCDMA V	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B2/25	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B2/25	5	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B4/66	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B4/66	5	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B5/26	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B7	5	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B12/B17	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B13	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B14	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B30	5	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B41/38(PC3)	5	63.30%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B41 (PC2)	5	43.30%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B48	8	63.30%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B48	9	63.30%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
LTE B71	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n7	5	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n12	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n13	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n14	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n2/n25	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n2/n25	5	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n5/n26	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n30	5	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n66	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n66	5	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n71	1	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n38/n41	5	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n41_HPUE	5	50.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n41	2	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n41	3	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n41	4	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n48	8	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n48	9	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n77/78_Part 27O/27Q PC3	8	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n77/78_Part 27O/27Q PC2	8	50.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n77/78_Part 96 PC3	8	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n77/78_Part 27O/27Q PC3	9	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n77/78_Part 27O/27Q PC2	9	50.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n77/78_Part 96	9	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n77/78_PC3 SRS	4	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224
n77/78_PC3 SRS	3	100.00%	0.935	0.953/2.54	2.54	0.635	0.635	0.635/2.224

To account for total uncertainty, SAR_design_target should be determined as:

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



<P_{limit} for supported technologies and bands (P_{limit} in EFS file)>

Band	Antenna	Device Uncertainty (dB)	Duty Cycle	Pmax*	WLAN OFF (P limit)			WLAN ON (P limit)		
					Head	Body-worn / Product Specific	Free Space Mode	Hotspot	Head	Body-worn / Product Specific
					(DSI:2)	(DSI:1)	(DSI:0)	(DSI:3)	(DSI2)	DSI1
WCDMA II	1	1	100.00%	24.2	26.6	23.9	24.2	22.6		
WCDMA IV	1	1	100.00%	24.2	25.5	24	24.2	20.7	1.8	1.8
WCDMA V	1	1	100.00%	24.2	29	26.7	24.2	25		
LTE B2/25	1	1	100.00%	24.2	26.7	23.4	24.2	22.1		0.9
LTE B2/25	5	1	100.00%	24.2	31.8	23.4	24.2	22.3		
LTE B4/66	1	1	100.00%	24.2	25.4	23.3	24.2	20.7	1.7	1.7
LTE B4/66	5	1	100.00%	24.2	30.3	23.5	24.2	22.6		
LTE B5/26	1	1	100.00%	24.2	29	27.8	24.2	26.3		
LTE B7	5	1	100.00%	24.2	38	21.5	24.2	22.9		
LTE B12/B17	1	1	100.00%	24.2	31.2	28	24.2	27		
LTE B13	1	1	100.00%	24.2	29.7	28	24.2	26.2		
LTE B14	1	1	100.00%	24.2	30.2	28	24.2	26.4		
LTE B30	5	1	100.00%	24.2	30.2	23.4	24.2	23.4		
LTE B41/38(PC3)**	5	1	63.30%	22.2	40.3	21.5	24.2	20.4		
LTE B41 (PC2)**	5	1	43.30%	22.4						
LTE B48**	8	1	63.30%	21.0	23.8	22.5	23	21.3		
LTE B48**	9	1	63.30%	21.0	27.7	23.1	23	20.2		
LTE B71	1	1	100.00%	24.2	31.5	27.3	24.2	26.9		
n7	5	1	100.00%	24.2	36.7	22.6	24.2	23.3		
n12	1	1	100.00%	24.2	30.7	27.9	24.2	26.9		
n13	1	1	100.00%	24.2	29.7	28.2	24.2	26.6		
n14	1	1	100.00%	24.2	29.6	27.7	24.2	25.9		
n2/n25	1	1	100.00%	24.2	26.6	24.2	24.2	22.8		1.7
n2/n25	5	1	100.00%	24.2	32.1	23.2	24.2	21.9		
n5/n26	1	1	100.00%	24.2	29	28.4	24.2	26.6		
n30	5	1	100.00%	24.2	28	23.2	24.2	23.2		
n66	1	1	100.00%	24.2	26.1	23	24.2	20.6		1.7
n66	5	1	100.00%	24.2	29.3	23.3	24.2	22.6		
n71	1	1	100.00%	24.2	31.3	27.6	24.2	26.9		
n38/n41**	5	1	100.00%	24.2	36.3	26.9	24.2	23.1		
n41_HPUE**	5	1	50.00%	23.0						
n41**	2	1	100.00%	21.0	26	24.8	21	23.4		
n41**	3	1	100.00%	21.0	21	24	21	22.2	1.8	
n41**	4	1	100.00%	21.0	26	27.2	21	27.4		
n48	8	1	100.00%	23.0	27.3	23.3	23	21.8		
n48	9	1	100.00%	23.0	25.2	23.2	23	21.7		
n77/78_Part 27O / 27Q PC3	8	1	100.00%	24.2	22.6	21.9	26	20.5	1.8	
n77/78_Part 27O / 27Q PC2	8	1	50.00%	23.0						
n77/78_Part 96 PC3	8	1	100.00%	21.0						
n77/78_Part 27O / 27Q PC3	9	1	100.00%	21.0	25.5	19.8	21	16.9		2.9
n77/78_Part 96 PC3	9	1	100.00%	21.0						
n77/78_PC3 SRS	4	1	100.00%	21.0	24	21.2	21	18.5		2.7
n77/78_PC3 SRS	3	1	100.00%	21.0	23	21.8	21	19.3		

*Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + 1dB uncertainty.

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

The max allowed output power is the P_{limit} + 1dB device uncertainty, and if P_{limit} is higher than Pmax, the device output power will be Pmax instead.



2.4 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																															
FCC ID	UZ7TC58AE																																																														
Equipment Name	Touch Computer																																																														
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																														
Channel Bandwidth	LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																														
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																														
LTE Voice / Data requirements	Voice and Data																																																														
LTE MPR permanently built-in by design	<p>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																																																								
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64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																								
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																								
256 QAM	≥ 1						≤ 5																																																								
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																														
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																														
Power reduction applied to satisfy SAR compliance	The device has several different power modes for each exposure conditions SAR compliance; power selection is determined by the device's positioning and usage scenarios. Detail refer to operational description																																																														
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to section 11.																																																														
LTE Carrier Aggregation Additional Information	This device supports maximum of 4 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		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829				
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5				
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844				
LTE Band 7																
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510				
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535				
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560				
LTE Band 12																
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704				
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5				
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711				
LTE Band 13																
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz				Bandwidth 20 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23230		782		23230		782	
M	23230		782		23230		782		23230		782		23230		782	
H	23255		784.5		23230		782		23230		782		23230		782	
LTE Band 14																
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz				Bandwidth 20 MHz			
	Channel #		Channel #		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23305		790.5		23330		793		23330		793		23330		793	
M	23330		793		23330		793		23330		793		23330		793	
H	23355		795.5		23330		793		23330		793		23330		793	
LTE Band 17																
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz				Bandwidth 20 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23780		709		23780		709	
M	23790		710		23790		710		23790		710		23790		710	
H	23825		713.5		23800		711		23800		711		23800		711	
LTE Band 25																
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860				
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880				
H	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)		
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5		
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5		
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5		
LTE Band 30												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)					
L	27685		2307.5		27710		2310					
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
L	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M												
M	40620	2593	40620	2593	40620	2593	40620	2593				
H	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 48												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
L	55810	3607	55815	3607.5	55820	3608	55830	3609				
M												
M	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690				
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133297	680.5	133297	680.5	133297	680.5	133297	680.5				
H	133447	695.5	133422	693	133397	690.5	133372	688				



2.5 General 5G NR SAR Test and Reporting Considerations

5G NR Information								
FCC ID	UZ7TC58AE							
Equipment Name	Touch Computer							
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 824 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3700 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3700 MHz							
Channel Bandwidth	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz 5G NR n12: 5MHz, 10MHz, 15MHz 5G NR n13: 5MHz, 10MHz 5G NR n14: 5MHz, 10MHz 5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz 30MHz, 40MHz 5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n30: 5MHz, 10MHz 5G NR n38: 20MHz, 30MHz, 40MHz 5G NR n41: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz 5G NR n48: 10MHz, 20MHz, 30MHz, 40MHz, 5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n77/n78: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz							
SCS	FDD: SCS15KHz, TDD: SCS30KHz							
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM QPSK / 16QAM / 64QAM / 256QAM							
A-MPR (Additional MPR) disabled for SAR Testing?	Yes							
LTE Anchor Bands for n2	LTE B5/7/12/13/14/66/71							
LTE Anchor Bands for n5	LTE B2/30/48/66							
LTE Anchor Bands for n7	LTE B2/5/12/13/66							
LTE Anchor Bands for n12	LTE B2/66							
LTE Anchor Bands for n25	LTE B12/48/66							
LTE Anchor Bands for n38	LTE B2/4/5/12/66/71							
LTE Anchor Bands for n41	LTE B2/4/12/25/26/66							
LTE Anchor Bands for n48	LTE B2/5/12/13/66							
LTE Anchor Bands for n66	LTE B2/5/7/12/14/48/71							
LTE Anchor Bands for n71	LTE B2/7/66							
LTE Anchor Bands for n77	LTE B2/5/7/12/13/14/30							
LTE Anchor Bands for n78	LTE B2/4/5/7/12/13/66/71							
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			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520		
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535		
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550		
NR Band 12																
	Bandwidth 5MHz			Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz			Bandwidth 30MHz			
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		
L	140300	701.5		140800	704		141300	706.5		141800	709		142300	711.5		
M	141500	707.5		141500	707.5		141500	707.5		141500	707.5		141500	707.5		
H	142700	713.5		142200	711		141700	708.5		141200	706		140700	703.5		
NR Band 13																
	Bandwidth 5MHz					Bandwidth 10MHz					Bandwidth 15MHz					
	Ch. #	Freq. (MHz)				Ch. #	Freq. (MHz)				Ch. #	Freq. (MHz)				
L	155900	779.5				156400	782				156900	784.5				
M	156400	782				156400	782				156400	782				
H	156900	784.5				156400	782				155900	779.5				
NR Band 14																
	Bandwidth 5MHz					Bandwidth 10MHz					Bandwidth 15MHz					
	Ch. #	Freq. (MHz)				Ch. #	Freq. (MHz)				Ch. #	Freq. (MHz)				
L	158100	790.5				158600	793				159100	795.5				
M	158600	793				158600	793				158600	793				
H	159100	795.5				158600	793				158100	790.5				
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 26																
	Bandwidth 5MHz			Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz			Bandwidth 30MHz			
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		
L	163300	816.5		163800	819		164300	821.5		164800	824		165300	826.5		
M	166300	831.5		166300	831.5		166300	831.5		166300	831.5		166300	831.5		
H	169300	846.5		168800	844		168300	841.5		167800	839		167300	836.5		
NR Band 30																
	Bandwidth 5MHz					Bandwidth 10MHz					Bandwidth 15MHz					
	Ch. #	Freq. (MHz)				Ch. #	Freq. (MHz)				Ch. #	Freq. (MHz)				
L	461500	2307.5				462000	2310				462500	2312.5				
M	462000	2310				462000	2310				462000	2310				
H	462500	2312.5				462000	2310				461500	2307.5				
NR Band 38																
	Bandwidth 20MHz				Bandwidth 30MHz				Bandwidth 40MHz				Bandwidth 50MHz			
	Ch. #	Freq. (MHz)			Ch. #	Freq. (MHz)			Ch. #	Freq. (MHz)			Ch. #	Freq. (MHz)		
L	516000	2580			517002	2585.01			518004	2590.02			519006	2595.03		
M	519000	2595			519000	2595			519000	2595			519000	2595		
H	522000	2610			520998	2604.99			519996	2599.98			518994	2594.97		
NR Band 41																
	Bandwidth20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
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 48																
	Bandwidth 10MHz			Bandwidth 20MHz			Bandwidth 30MHz			Bandwidth 40MHz			Bandwidth 50MHz			
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		
L	637000	3555		637334	3560.01		637668	3565.02		638000	3570		638334	3575.01		
M	641666	3624.99		641666	3624.99		641666	3624.99		641666	3624.99		641666	3624.99		
H	646332	3694.98		646000	3690		645666	3684.99		645332	3679.98		645000	3675		



NR Band 66																						
Bandwidth 5MHz		Bandwidth 10MHz				Bandwidth 15MHz				Bandwidth 20MHz												
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720														
M	349000	1745	349000	1745	349000	1745	349000	1745														
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770														
NR Band 71																						
Bandwidth 5MHz		Bandwidth 10MHz				Bandwidth 15MHz				Bandwidth 20MHz												
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	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																						
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930
NR Band 78																						
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98	650000	3750
NR Band 77/78(3450MHz ~ 3550MHz)																						
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	630334	3455.01	630500	3457.5	630668	3460.02	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99	633332	3499.98
NR Band 77/78(3550MHz ~ 3700MHz)																						
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	637000	3555	637168	3557.52	637334	3560.01	637668	3565.02	638000	3570	638334	3575.01	638668	3580.02	639000	3585	639334	3590.01	639668	3595.02	640000	3600
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H	646332	3694.98	646166	3692.49	646000	3690	645666	3684.99	645332	3679.98	645000	3675	644666	3669.99	644332	3664.98	644000	3660	643666	3654.99	643332	3649.98

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
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)



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.



4.3 RF Exposure limit for above 6GHz

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

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

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

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:

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

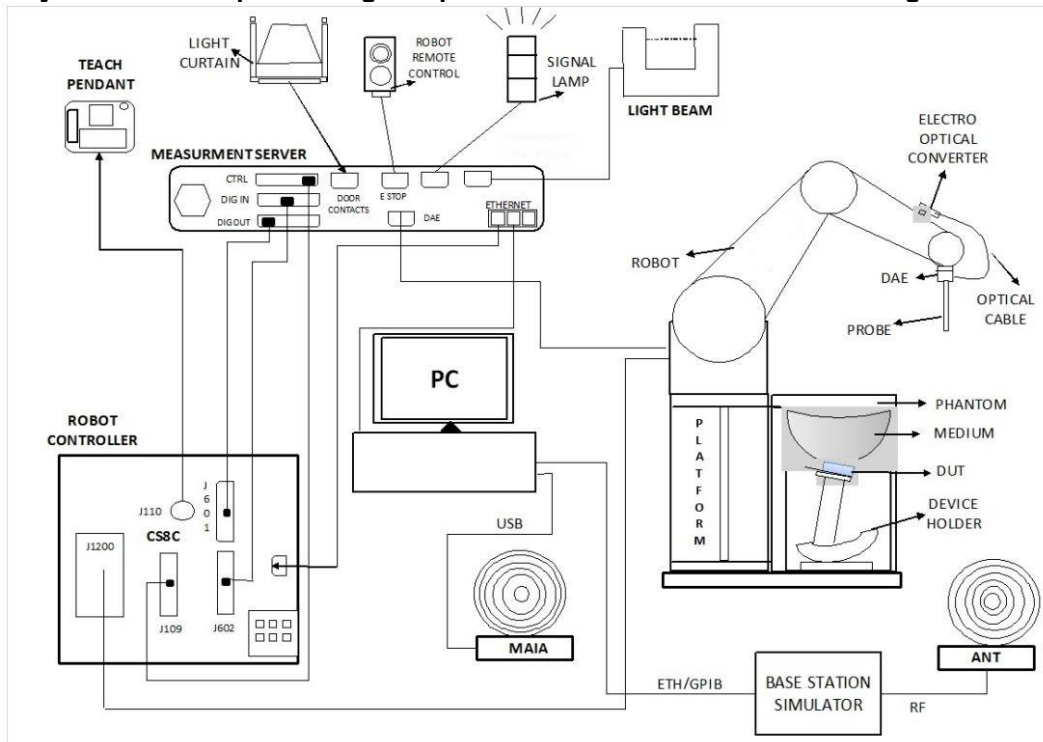
SAR is expressed in units of Watts per kilogram (W/kg)

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

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



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

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

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


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	4 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – >100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

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

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.

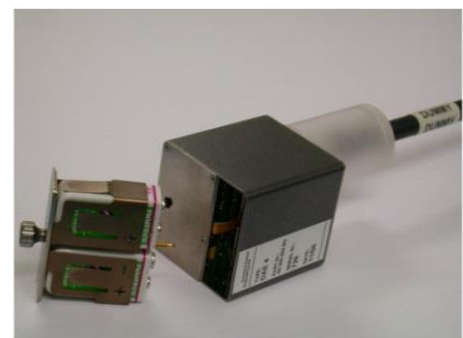



Fig 5.1 Photo of DAE


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:

- (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 dB0) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

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

	≤ 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 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 shoes 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	
<p>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.</p> <p>* 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.</p>				

7.5 Volume Scan Procedures

The volume scan is used for 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 DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.



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	Jun. 22, 2022	Jun. 20, 2024
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	4d167	Nov. 24, 2022	Nov. 22, 2024
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1112	Jun. 22, 2022	Jun. 20, 2024
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d093	Mar. 25, 2022	Mar. 22, 2025
SPEAG	2300MHz System Validation Kit ⁽²⁾	D2300V2	1006	Jan. 18, 2022	Jan. 15, 2025
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	736	Aug. 17, 2021	Aug. 14, 2024
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1078	Jun. 23, 2022	Jun. 21, 2024
SPEAG	3300MHz System Validation Kit ⁽²⁾	D3300V2	1005	Apr. 27, 2022	Apr. 25, 2024
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1014	Jan. 17, 2022	Jan. 14, 2025
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1006	Jun. 20, 2022	Jun. 18, 2024
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1022	Jul. 14, 2021	Jul. 11, 2024
SPEAG	3900MHz System Validation Kit ⁽²⁾	D3900V2	1017	Apr. 22, 2022	Apr. 20, 2024
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1006	May. 25, 2023	May. 23, 2025
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1171	Apr. 20, 2021	Apr. 17, 2024
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1083	Oct. 20, 2023	Oct. 19, 2024
SPEAG	5G Verification Source	10GHz	1020	Jan. 18, 2024	Jan. 17, 2025
SPEAG	EUmmWV Probe Tip Protection	EUmmWV3	9424	Mar. 21, 2023	Mar. 20, 2024
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9441	Nov. 17, 2023	Nov. 16, 2024
SPEAG	Data Acquisition Electronics	DAE4	316	Jan. 18, 2024	Jan. 17, 2025
SPEAG	Data Acquisition Electronics	DAE4	661	May. 23, 2023	May. 22, 2024
SPEAG	Data Acquisition Electronics	DAE4	853	Jul. 14, 2023	Jul. 13, 2024
SPEAG	Data Acquisition Electronics	DAE4	1647	Dec. 27, 2023	Dec. 26, 2024
SPEAG	Data Acquisition Electronics	DAE4	1697	Nov. 20, 2023	Nov. 19, 2024
SPEAG	Data Acquisition Electronics	DAE4	1707	Dec. 06, 2023	Dec. 05, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	3728	Mar. 22, 2023	Mar. 21, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7306	Jul. 18, 2023	Jul. 17, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7695	May. 22, 2023	May. 21, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7785	Nov. 23, 2023	Nov. 22, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7793	Mar. 08, 2023	Mar. 07, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7793	Mar. 01, 2024	Feb. 28, 2025
SPEAG	Dosimetric E-Field Probe	EX3DV4	7813	May. 24, 2023	May. 23, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7814	May. 30, 2023	May. 29, 2024
Testo	Hygro meter	608-H1	45196600	Nov. 02, 2023	Nov. 01, 2024
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Nov. 13, 2023	Nov. 12, 2024
Keysight	5G Wireless Test Platform	E7515B	MY59321826	Apr. 26, 2023	Apr. 25, 2024
R&S	BT Base Station	CBT	101136	Oct. 22, 2023	Oct. 21, 2024
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 27, 2023	Sep. 26, 2024
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 30, 2023	Oct. 29, 2024
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 19, 2023	Sep. 18, 2024
SPEAG	Dielectric Probe Kit	DAK-12	1156	Jul. 17, 2023	Jul. 16, 2024
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3690	Aug. 09, 2023	Aug. 08, 2024
Anritsu	Power Meter	ML2495A	1419002	Aug. 17, 2023	Aug. 16, 2024
Anritsu	Power Sensor	MA2411B	1911176	Aug. 18, 2023	Aug. 17, 2024
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 10, 2023	Jul. 09, 2024
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 16, 2023	Oct. 15, 2024
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4B1	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005- 3	N/A	Note 1	

General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.



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	22.7	0.894	41.706	0.89	41.90	0.45	-0.46	±5	2024/2/3
750	22.4	0.913	41.802	0.89	41.90	2.58	-0.23	±5	2024/2/4
750	22.5	0.889	42.262	0.89	41.90	-0.11	0.86	±5	2024/2/8
750	22.4	0.890	41.576	0.89	41.90	0.00	-0.77	±5	2024/2/15
750	22.4	0.895	41.886	0.89	41.90	0.56	-0.03	±5	2024/2/16
750	22.5	0.887	42.276	0.89	41.90	-0.34	0.90	±5	2024/2/17
750	22.3	0.912	41.789	0.89	41.90	2.47	-0.26	±5	2024/2/21
750	22.4	0.886	41.935	0.89	41.90	-0.45	0.08	±5	2024/3/4
750	22.8	0.890	43.015	0.89	41.90	0.00	2.66	±5	2024/3/7
750	22.1	0.901	42.411	0.89	41.90	1.24	1.22	±5	2024/3/10
750	22.4	0.891	41.755	0.89	41.90	0.11	-0.35	±5	2024/4/4
835	22.7	0.923	41.410	0.90	41.50	2.56	-0.22	±5	2024/2/3
835	22.5	0.923	41.966	0.90	41.50	2.56	1.12	±5	2024/2/8
835	22.4	0.917	41.270	0.90	41.50	1.89	-0.55	±5	2024/2/14
835	22.5	0.916	41.980	0.90	41.50	1.78	1.16	±5	2024/2/17
835	22.4	0.919	41.638	0.90	41.50	2.11	0.33	±5	2024/3/4
835	22.9	0.925	42.730	0.90	41.50	2.78	2.96	±5	2024/3/9
835	22.3	0.925	41.761	0.90	41.50	2.78	0.63	±5	2024/4/3
1750	22.6	1.352	40.671	1.37	40.10	-1.31	1.42	±5	2024/2/1
1750	22.7	1.379	40.579	1.37	40.10	0.66	1.19	±5	2024/2/28
1750	22.8	1.331	40.045	1.37	40.10	-2.85	-0.14	±5	2024/3/8
1750	22.6	1.355	41.67	1.37	40.10	-1.09	3.92	±5	2024/3/15
1750	22.8	1.338	40.955	1.37	40.10	-2.34	2.13	±5	2024/3/18
1750	22.8	1.361	40.439	1.37	40.10	-0.66	0.85	±5	2024/3/28
1750	22.4	1.352	40.733	1.37	40.10	-1.31	1.58	±5	2024/4/1
1900	22.7	1.443	38.574	1.40	40.00	3.07	-3.57	±5	2024/2/5
1900	22.4	1.434	38.494	1.40	40.00	2.43	-3.77	±5	2024/2/7
1900	22.2	1.446	39.148	1.40	40.00	3.29	-2.13	±5	2024/2/22
1900	22.2	1.446	39.148	1.40	40.00	3.29	-2.13	±5	2024/2/22
1900	22.2	1.440	38.845	1.40	40.00	2.86	-2.89	±5	2024/2/23
1900	22.5	1.425	40.920	1.40	40.00	1.79	2.30	±5	2024/3/2
1900	22.2	1.422	41.123	1.40	40.00	1.57	2.81	±5	2024/3/11
1900	22.6	1.447	40.783	1.40	40.00	3.36	1.96	±5	2024/3/16
1900	22.5	1.44	40.307	1.40	40.00	2.86	0.77	±5	2024/3/19
1900	22.8	1.438	38.891	1.40	40.00	2.71	-2.77	±5	2024/3/28
2300	22.7	1.616	39.921	1.67	39.50	-3.23	1.07	±5	2024/2/5
2300	22.4	1.669	39.364	1.67	39.50	-0.06	-0.34	±5	2024/2/9
2300	22.5	1.601	39.566	1.67	39.50	-4.13	0.17	±5	2024/2/18
2300	22.4	1.672	40.581	1.67	39.50	0.12	2.74	±5	2024/3/13
2300	22.4	1.634	40.02	1.67	39.50	-2.16	1.32	±5	2024/3/27
2600	22.6	1.956	37.963	1.96	39.00	-0.20	-2.66	±5	2024/2/6
2600	22.4	2.017	38.178	1.96	39.00	2.91	-2.11	±5	2024/2/9



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2600	22.2	1.904	38.174	1.96	39.00	-2.86	-2.12	±5	2024/2/10
2600	22.6	1.892	38.089	1.96	39.00	-3.47	-2.34	±5	2024/2/19
2600	22.7	1.988	38.263	1.96	39.00	1.43	-1.89	±5	2024/2/24
2600	22.3	2.047	37.828	1.96	39.00	4.44	-3.01	±5	2024/2/26
2600	22.7	2.043	37.796	1.96	39.00	4.23	-3.09	±5	2024/2/27
2600	22.2	1.924	38.538	1.96	39.00	-1.84	-1.18	±5	2024/3/3
2600	22.3	1.994	39.433	1.96	39.00	1.73	1.11	±5	2024/3/12
2600	22.5	1.917	39.253	1.96	39.00	-2.19	0.65	±5	2024/3/14
2600	22.7	2.005	40.259	1.96	39.00	2.30	3.23	±5	2024/3/17
2600	22.2	2.006	38.537	1.96	39.00	2.35	-1.19	±5	2024/4/2
3300	22.8	2.796	38.018	2.70	38.13	3.56	-0.29	±5	2024/2/11
3300	22.7	2.759	38.393	2.70	38.13	2.19	0.69	±5	2024/2/12
3300	22.1	2.758	38.005	2.70	38.13	2.15	-0.33	±5	2024/3/1
3500	22.7	2.916	37.795	2.91	37.90	0.21	-0.28	±5	2024/2/2
3500	22.6	2.953	38.244	2.91	37.90	1.48	0.91	±5	2024/2/6
3500	22.4	2.928	37.781	2.91	37.90	0.62	-0.31	±5	2024/2/9
3500	22.8	2.976	37.634	2.91	37.90	2.27	-0.70	±5	2024/2/11
3500	22.7	2.935	38.008	2.91	37.90	0.86	0.28	±5	2024/2/12
3500	22.6	2.978	38.695	2.91	37.90	2.34	2.10	±5	2024/2/20
3500	22.4	2.971	37.608	2.91	37.90	2.10	-0.77	±5	2024/2/25
3500	22.1	2.942	37.770	2.91	37.90	1.10	-0.34	±5	2024/3/1
3500	22.6	2.948	37.621	2.91	37.90	1.31	-0.74	±5	2024/3/5
3500	22.3	2.960	37.686	2.91	37.90	1.72	-0.56	±5	2024/3/6
3500	22.5	2.981	37.912	2.91	37.90	2.44	0.03	±5	2024/3/20
3500	22.1	2.945	38.035	2.91	37.90	1.20	0.36	±5	2024/3/21
3500	22.4	2.996	37.916	2.91	37.90	2.96	0.04	±5	2024/3/24
3500	22.5	3.011	37.804	2.91	37.90	3.47	-0.25	±5	2024/3/25
3500	22.4	2.954	37.912	2.91	37.90	1.51	0.03	±5	2024/3/26
3500	22.9	2.979	37.843	2.91	37.90	2.37	-0.15	±5	2024/3/29
3500	22.5	3.022	37.919	2.91	37.90	3.85	0.05	±5	2024/4/5
3700	22.7	3.080	37.547	3.12	37.70	-1.28	-0.41	±5	2024/2/2
3700	22.6	3.110	38.006	3.12	37.70	-0.32	0.81	±5	2024/2/6
3700	22.4	3.083	37.543	3.12	37.70	-1.19	-0.42	±5	2024/2/9
3700	22.8	3.143	37.386	3.12	37.70	0.74	-0.83	±5	2024/2/11
3700	22.7	3.101	37.760	3.12	37.70	-0.61	0.16	±5	2024/2/12
3700	22.6	3.191	38.493	3.12	37.70	2.28	2.10	±5	2024/2/20
3700	22.4	3.138	37.360	3.12	37.70	0.58	-0.90	±5	2024/2/25
3700	22.1	3.098	37.532	3.12	37.70	-0.71	-0.45	±5	2024/3/1
3700	22.6	3.159	37.419	3.12	37.70	1.25	-0.75	±5	2024/3/5
3700	22.5	3.194	37.711	3.12	37.70	2.37	0.03	±5	2024/3/20
3700	22.1	3.111	37.788	3.12	37.70	-0.29	0.23	±5	2024/3/21
3700	22.2	3.123	37.873	3.12	37.70	0.10	0.46	±5	2024/3/22
3700	22.3	3.208	37.781	3.12	37.70	2.82	0.21	±5	2024/3/23
3700	22.5	3.17	37.566	3.12	37.70	1.60	-0.36	±5	2024/3/25
3700	22.4	3.165	37.711	3.12	37.70	1.44	0.03	±5	2024/3/26
3700	22.8	3.189	37.454	3.12	37.70	2.21	-0.65	±5	2024/3/28
3700	22.9	3.167	37.544	3.12	37.70	1.51	-0.41	±5	2024/3/29
3700	22.1	3.132	38.166	3.12	37.70	0.38	1.24	±5	2024/3/30
3700	22.5	3.182	37.681	3.12	37.70	1.99	-0.05	±5	2024/4/5
3900	22.7	3.267	37.452	3.33	37.51	-1.89	-0.15	±5	2024/2/2
3900	22.8	3.333	37.291	3.33	37.51	0.09	-0.58	±5	2024/2/11
3900	22.7	3.288	37.666	3.33	37.51	-1.26	0.42	±5	2024/2/12
3900	22.4	3.261	36.915	3.33	37.51	-2.07	-1.59	±5	2024/2/13
3900	22.4	3.328	37.265	3.33	37.51	-0.06	-0.65	±5	2024/2/25
3900	22.1	3.270	37.288	3.33	37.51	-1.80	-0.59	±5	2024/3/1
3900	22.5	3.406	37.523	3.33	37.51	2.28	0.03	±5	2024/3/20



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3900	22.2	3.296	37.628	3.33	37.51	-1.02	0.31	±5	2024/3/22
3900	22.3	3.421	37.593	3.33	37.51	2.73	0.22	±5	2024/3/23
3900	22.5	3.346	37.322	3.33	37.51	0.48	-0.50	±5	2024/3/25
3900	22.4	3.376	37.523	3.33	37.51	1.38	0.03	±5	2024/3/26
3900	22.8	3.395	37.176	3.33	37.51	1.95	-0.89	±5	2024/3/28
3900	22.9	3.371	37.266	3.33	37.51	1.23	-0.65	±5	2024/3/29
3900	22.1	3.258	37.588	3.33	37.51	-2.16	0.21	±5	2024/3/31
13	22.2	0.728	54.443	0.75	55.00	-2.93	-1.01	±5	2024/2/19
2450	22.5	1.853	38.394	1.80	39.20	2.94	-2.06	±5	2024/3/4
2450	22.5	1.782	38.953	1.80	39.20	-1.00	-0.63	±5	2024/3/5
2450	22.5	1.870	38.494	1.80	39.20	3.89	-1.80	±5	2024/3/6
2450	22.7	1.803	39.063	1.80	39.20	0.17	-0.35	±5	2024/3/8
2450	22.7	1.800	39.042	1.80	39.20	0.00	-0.40	±5	2024/3/9
2450	22.6	1.783	38.380	1.80	39.20	-0.94	-2.09	±5	2024/3/21
5250	22.5	4.735	35.097	4.71	35.95	0.53	-2.37	±5	2024/3/3
5250	22.8	4.671	36.227	4.71	35.95	-0.83	0.77	±5	2024/3/7
5250	22.8	4.671	36.227	4.71	35.95	-0.83	0.77	±5	2024/3/7
5250	22.7	4.602	35.517	4.71	35.95	-2.29	-1.20	±5	2024/3/10
5250	22.4	4.616	35.567	4.71	35.95	-2.00	-1.07	±5	2024/3/11
5250	22.4	4.828	36.057	4.71	35.95	2.51	0.30	±5	2024/3/22
5600	22.5	5.107	34.586	5.07	35.50	0.73	-2.57	±5	2024/3/3
5600	22.8	5.038	35.716	5.07	35.50	-0.63	0.61	±5	2024/3/7
5600	22.7	4.995	34.912	5.07	35.50	-1.48	-1.66	±5	2024/3/10
5600	22.4	5.011	34.962	5.07	35.50	-1.16	-1.52	±5	2024/3/11
5600	22.4	5.206	35.546	5.07	35.50	2.68	0.13	±5	2024/3/22
5750	22.7	5.178	35.403	5.22	35.35	-0.80	0.15	±5	2024/3/2
5750	22.5	5.273	34.403	5.22	35.35	1.02	-2.68	±5	2024/3/3
5750	22.8	5.203	35.533	5.22	35.35	-0.33	0.52	±5	2024/3/7
5750	22.7	5.178	34.594	5.22	35.35	-0.80	-2.14	±5	2024/3/10
5750	22.4	5.194	34.644	5.22	35.35	-0.50	-2.00	±5	2024/3/11
5750	22.4	5.375	35.363	5.22	35.35	2.97	0.04	±5	2024/3/22
6500	22.5	6.160	34.700	6.07	34.50	1.48	0.58	±5	2024/3/8
6500	22.5	6.270	34.600	6.07	34.50	3.29	0.29	±5	2024/3/23
6500	22.5	6.310	35.900	6.07	34.50	3.95	4.06	±5	2024/4/2



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

Table with 14 columns: Test Site, Date, Frequency (MHz), Input Power (mW), Dipole S/N, Probe S/N, DAE S/N, Measured 1g SAR (W/kg), Targeted 1g SAR (W/kg), Normalized 1g SAR (W/kg), Deviation (%), Measured 10g SAR (W/kg), Targeted 10g SAR (W/kg), Normalized 10g SAR (W/kg), Deviation (%). Rows include various test site IDs (SAR12, SAR13, SAR08, SAR09) and dates from 2024/2/3 to 2024/4/2.



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SAR12	2024/2/2	3500	100	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1707	6.260	67.200	62.6	-6.85	2.370	25.100	23.7	-5.58
SAR12	2024/2/6	3500	50	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1707	3.680	67.200	73.6	9.52	1.360	25.100	27.2	8.37
SAR12	2024/2/9	3500	100	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1707	6.310	67.200	63.1	-6.10	2.340	25.100	23.4	-6.77
SAR12	2024/2/11	3500	100	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1707	6.410	67.200	64.1	-4.61	2.380	25.100	23.8	-5.18
SAR12	2024/2/12	3500	100	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1707	6.320	67.200	63.2	-5.95	2.350	25.100	23.5	-6.37
SAR12	2024/2/20	3500	100	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1707	6.410	67.200	64.1	-4.61	2.380	25.100	23.8	-5.18
SAR12	2024/2/25	3500	100	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1707	6.400	67.200	64	-4.76	2.380	25.100	23.8	-5.18
SAR12	2024/3/1	3500	100	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1707	6.340	67.200	63.4	-5.65	2.350	25.100	23.5	-6.37
SAR12	2024/3/5	3500	100	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1707	6.350	67.200	63.5	-5.51	2.360	25.100	23.6	-5.98
SAR12	2024/3/6	3500	100	D3500V2-1014	EX3DV4 - SN7785	DAE4 Sn1707	6.380	67.200	63.8	-5.06	2.370	25.100	23.7	-5.58
SAR13	2024/3/20	3500	100	D3500V2-1014	EX3DV4 - SN7695	DAE4 Sn1697	6.630	67.200	66.3	-1.34	2.470	25.100	24.7	-1.59
SAR13	2024/3/21	3500	100	D3500V2-1014	EX3DV4 - SN7695	DAE4 Sn1697	6.550	67.200	65.5	-2.53	2.440	25.100	24.4	-2.79
SAR13	2024/3/24	3500	100	D3500V2-1014	EX3DV4 - SN7695	DAE4 Sn1697	6.490	67.200	64.9	-3.42	2.430	25.100	24.3	-3.19
SAR13	2024/3/25	3500	100	D3500V2-1014	EX3DV4 - SN7695	DAE4 Sn1697	6.610	67.200	66.1	-1.64	2.500	25.100	25	-0.40
SAR13	2024/3/26	3500	100	D3500V2-1014	EX3DV4 - SN7695	DAE4 Sn1697	6.120	67.200	61.2	-8.93	2.350	25.100	23.5	-6.37
SAR13	2024/3/29	3500	50	D3500V2-1014	EX3DV4 - SN7695	DAE4 Sn1697	3.090	67.200	61.8	-8.04	1.170	25.100	23.4	-6.77
SAR13	2024/4/5	3500	50	D3500V2-1014	EX3DV4 - SN7695	DAE4 Sn1697	3.130	67.200	62.6	-6.85	1.180	25.100	23.6	-5.98
SAR12	2024/2/2	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1707	3.320	65.600	66.4	1.22	1.240	23.700	24.8	4.64
SAR12	2024/2/6	3700	50	D3700V2-1022	EX3DV4 - SN7785	DAE4 Sn1707	3.360	68.200	67.2	-1.47	1.250	24.700	25	1.21
SAR12	2024/2/9	3700	100	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1707	6.150	65.600	61.5	-6.25	2.200	23.700	22	-7.17
SAR12	2024/2/11	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1707	3.070	65.600	61.4	-6.40	1.150	23.700	23	-2.95
SAR12	2024/2/12	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1707	3.030	65.600	60.6	-7.62	1.140	23.700	22.8	-3.80
SAR12	2024/2/20	3700	100	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1707	6.070	65.600	60.7	-7.47	2.190	23.700	21.9	-7.59
SAR12	2024/2/25	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1707	3.070	65.600	61.4	-6.40	1.150	23.700	23	-2.95
SAR12	2024/3/1	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1707	3.030	65.600	60.6	-7.62	1.140	23.700	22.8	-3.80
SAR12	2024/3/5	3700	50	D3700V2-1006	EX3DV4 - SN7785	DAE4 Sn1707	3.090	65.600	61.8	-5.79	1.160	23.700	23.2	-2.11
SAR13	2024/3/20	3700	100	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1697	6.610	68.200	66.1	-3.08	2.400	24.700	24	-2.83
SAR13	2024/3/21	3700	100	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1697	6.440	68.200	64.4	-5.57	2.340	24.700	23.4	-5.26
SAR13	2024/3/22	3700	100	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1697	6.250	68.200	62.5	-8.36	2.290	24.700	22.9	-7.29
SAR13	2024/3/23	3700	100	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1697	6.610	68.200	66.1	-3.08	2.440	24.700	24.4	-1.21
SAR13	2024/3/25	3700	50	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1697	3.750	68.200	75	9.97	1.350	24.700	27	9.31
SAR13	2024/3/26	3700	100	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1697	6.490	68.200	64.9	-4.84	2.350	24.700	23.5	-4.86
SAR13	2024/3/28	3700	50	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1697	3.380	68.200	67.6	-0.88	1.270	24.700	25.4	2.83
SAR13	2024/3/29	3700	50	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1697	3.340	68.200	66.8	-2.05	1.230	24.700	24.6	-0.40
SAR13	2024/3/30	3700	100	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1697	6.850	68.200	68.5	0.44	2.520	24.700	25.2	2.02
SAR13	2024/4/5	3700	50	D3700V2-1022	EX3DV4 - SN7695	DAE4 Sn1697	3.360	68.200	67.2	-1.47	1.240	24.700	24.8	0.40
SAR12	2024/2/2	3900	50	D3900V2-1017-3900	EX3DV4 - SN7785	DAE4 Sn1707	3.120	68.700	62.4	-9.17	1.080	23.900	21.6	-9.62
SAR12	2024/2/11	3900	50	D3900V2-1017-3900	EX3DV4 - SN7785	DAE4 Sn1707	3.230	68.700	64.6	-5.97	1.150	23.900	23	-3.77
SAR12	2024/2/12	3900	50	D3900V2-1017-3900	EX3DV4 - SN7785	DAE4 Sn1707	3.190	68.700	63.8	-7.13	1.130	23.900	22.6	-5.44
SAR12	2024/2/13	3900	50	D3900V2-1017-3900	EX3DV4 - SN7785	DAE4 Sn1707	3.160	68.700	63.2	-8.01	1.120	23.900	22.4	-6.28
SAR12	2024/2/25	3900	100	D3900V2-1017-3900	EX3DV4 - SN7785	DAE4 Sn1707	7.250	68.700	72.5	5.53	2.620	23.900	26.2	9.62
SAR12	2024/3/1	3900	50	D3900V2-1017-3900	EX3DV4 - SN7785	DAE4 Sn1707	3.170	68.700	63.4	-7.71	1.130	23.900	22.6	-5.44
SAR13	2024/3/20	3900	100	D3900V2-1017-3900	EX3DV4 - SN7695	DAE4 Sn1697	6.480	68.700	64.8	-5.68	2.240	23.900	22.4	-6.28
SAR13	2024/3/22	3900	50	D3900V2-1017-3900	EX3DV4 - SN7695	DAE4 Sn1697	3.270	68.700	65.4	-4.80	1.170	23.900	23.4	-2.09
SAR13	2024/3/23	3900	50	D3900V2-1017-3900	EX3DV4 - SN7695	DAE4 Sn1697	3.180	68.700	63.6	-7.42	1.110	23.900	22.2	-7.11
SAR13	2024/3/25	3900	50	D3900V2-1017-3900	EX3DV4 - SN7695	DAE4 Sn1697	3.110	68.700	62.2	-9.46	1.080	23.900	21.6	-9.62
SAR13	2024/3/26	3900	100	D3900V2-1017-3900	EX3DV4 - SN7695	DAE4 Sn1697	7.320	68.700	73.2	6.55	2.480	23.900	24.8	3.77
SAR13	2024/3/28	3900	50	D3900V2-1017-3900	EX3DV4 - SN7695	DAE4 Sn1697	3.400	68.700	68	-1.02	1.220	23.900	24.4	2.09
SAR13	2024/3/29	3900	50	D3900V2-1017-3900	EX3DV4 - SN7695	DAE4 Sn1697	3.110	68.700	62.2	-9.46	1.080	23.900	21.6	-9.62
SAR13	2024/3/31	3900	50	D3900V2-1017-3900	EX3DV4 - SN7695	DAE4 Sn1697	3.130	68.700	62.6	-8.88	1.110	23.900	22.2	-7.11
SAR18	2024/2/19	13	250	CLA-13	EX3DV4 - SN7306	DAE4 Sn853	0.129	0.555	0.516	-7.86	0.090	0.364	0.36	0.00
SAR12	2024/3/4	2450	50	D2450V2-736	EX3DV4 - SN7785	DAE4 Sn1707	2.640	54.200	52.8	-2.58	1.240	25.300	24.8	-1.98
SAR12	2024/3/5	2450	50	D2450V2-736	EX3DV4 - SN7785	DAE4 Sn1707	2.490	54.200	49.8	-8.12	1.170	25.300	23.4	-7.51
SAR12	2024/3/6	2450	50	D2450V2-736	EX3DV4 - SN7785	DAE4 Sn1707	2.450	54.200	49	-9.59	1.150	25.300	23	-9.09
SAR19	2024/3/8	2450	250	D2450V2-736	EX3DV4 - SN7814	DAE4 Sn316	14.700	54.200	58.8	8.49	6.940	25.300	27.76	9.72
SAR13	2024/3/9	2450	50	D2450V2-736	EX3DV4 - SN7695	DAE4 Sn1697	2.700	54.200	54	-0.37	1.300	25.300	26	2.77
SAR13	2024/3/21	2450	50	D2450V2-736	EX3DV4 - SN7695	DAE4 Sn1697	2.500	54.200	50	-7.75	1.170	25.300	23.4	-7.51
SAR13	2024/3/3	5250	50	D5GHZV2-1006-5250	EX3DV4 - SN7695	DAE4 Sn1697	3.700	81.200	74	-8.87	1.080	23.200	21.6	-6.90
SAR19	2024/3/7	5250	100	D5GHZV2-1006-5250	EX3DV4 - SN7814	DAE4 Sn316	7.880	81.200	78.8	-2.96	2.210	23.200	22.1	-4.74
SAR13	2024/3/7	5250	50	D5GHZV2-1171-5250	EX3DV4 - SN7695	DAE4 Sn1697	4.160	80.300	83.2	3.61	1.190	23.000	23.8	3.48
SAR13	2024/3/10	5250	100	D5GHZV2-1006-5250	EX3DV4 - SN7695	DAE4 Sn1697	7.870	81.200	78.7	-3.08	2.250	23.200	22.5	-3.02
SAR13	2024/3/11	5250	100	D5GHZV2-1006-5250	EX3DV4 - SN7695	DAE4 Sn1697	7.900	81.200	79	-2.71	2.260	23.200	22.6	-2.59

SAR13	2024/3/22	5250	100	D5GHzV2-1006-5250	EX3DV4 - SN7695	DAE4 Sn1697	7.360	81.200	73.6	-9.36	2.110	23.200	21.1	-9.05
SAR13	2024/3/3	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN7695	DAE4 Sn1697	4.420	84.700	88.4	4.37	1.280	24.200	25.6	5.79
SAR19	2024/3/7	5600	100	D5GHzV2-1006-5600	EX3DV4 - SN7814	DAE4 Sn316	8.350	84.700	83.5	-1.42	2.340	24.200	23.4	-3.31
SAR13	2024/3/10	5600	50	D5GHzV2-1006-5600	EX3DV4 - SN7695	DAE4 Sn1697	4.510	84.700	90.2	6.49	1.270	24.200	25.4	4.96
SAR13	2024/3/11	5600	100	D5GHzV2-1006-5600	EX3DV4 - SN7695	DAE4 Sn1697	8.090	84.700	80.9	-4.49	2.310	24.200	23.1	-4.55
SAR13	2024/3/22	5600	100	D5GHzV2-1006-5600	EX3DV4 - SN7695	DAE4 Sn1697	7.640	84.700	76.4	-9.80	2.240	24.200	22.4	-7.44
SAR12	2024/3/2	5750	50	D5GHzV2-1006-5750	EX3DV4 - SN7785	DAE4 Sn1707	3.790	80.900	75.8	-6.30	1.090	22.900	21.8	-4.80
SAR13	2024/3/3	5750	50	D5GHzV2-1171-5750	EX3DV4 - SN7695	DAE4 Sn1697	4.230	80.400	84.6	5.22	1.210	22.800	24.2	6.14
SAR19	2024/3/7	5750	100	D5GHzV2-1006-5750	EX3DV4 - SN7814	DAE4 Sn316	7.730	80.900	77.3	-4.45	2.160	22.900	21.6	-5.68
SAR13	2024/3/10	5750	50	D5GHzV2-1006-5750	EX3DV4 - SN7695	DAE4 Sn1697	4.150	80.900	83	2.60	1.190	22.900	23.8	3.93
SAR13	2024/3/11	5750	100	D5GHzV2-1006-5750	EX3DV4 - SN7695	DAE4 Sn1697	7.940	80.900	79.4	-1.85	2.260	22.900	22.6	-1.31
SAR13	2024/3/22	5750	100	D5GHzV2-1006-5750	EX3DV4 - SN7695	DAE4 Sn1697	7.340	80.900	73.4	-9.27	2.090	22.900	20.9	-8.73
SAR13	2024/3/8	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7695	DAE4 Sn1697	27.000	292.000	270	-7.53	4.990	54.000	49.9	-7.59
SAR13	2024/3/23	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7695	DAE4 Sn1697	28.900	292.000	289	-1.03	5.340	54.000	53.4	-1.11
SAR20	2024/4/2	6500	100	D6.5GHzV2-1083	EX3DV4 - SN7793	DAE4 Sn1707	28.900	292.000	289	-1.03	5.630	54.000	56.3	4.26

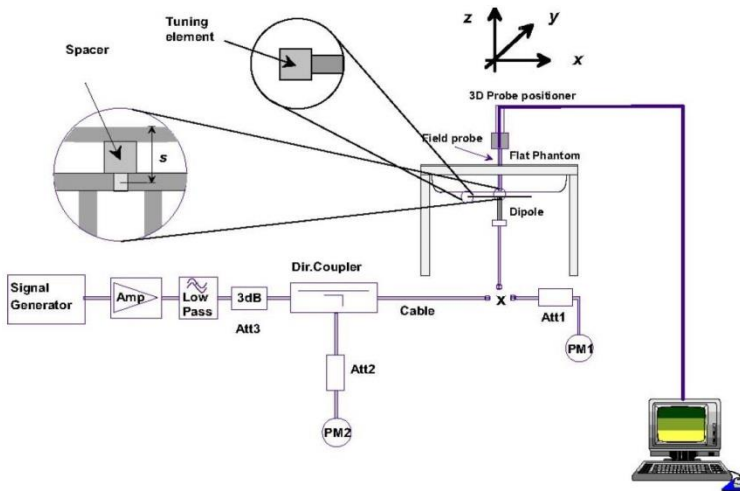


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

9.3 PD System Performance Check Results

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

Test Location	Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Measured 4 cm ² (W/m ²)	Targeted 4 cm ² (W/m ²)	Deviation (dB)	Date
SAR14	10G	10GHz_1020	EUmmWV4 - 9424	1647	10	53.9	55.8	-0.15	2024/2/23
SAR13	10G	10GHz_1020	EUmmWV4 - 9441	661	10	50	55.8	-0.48	2024/3/29

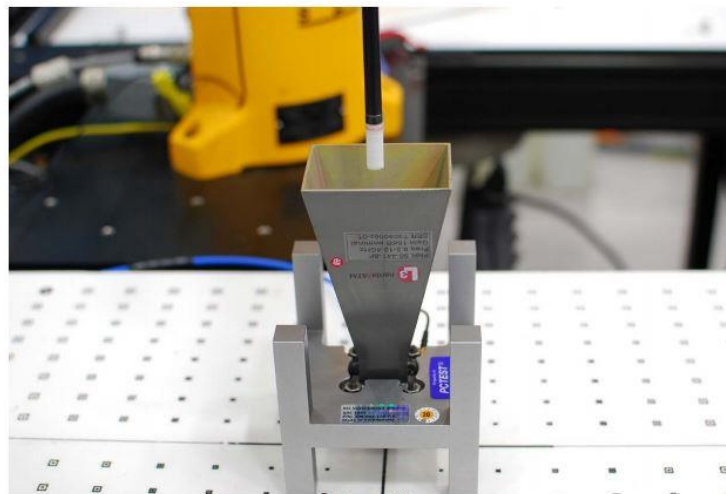


Figure 4-3
System Verification Setup Photo

System Performance Check Setup

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 normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

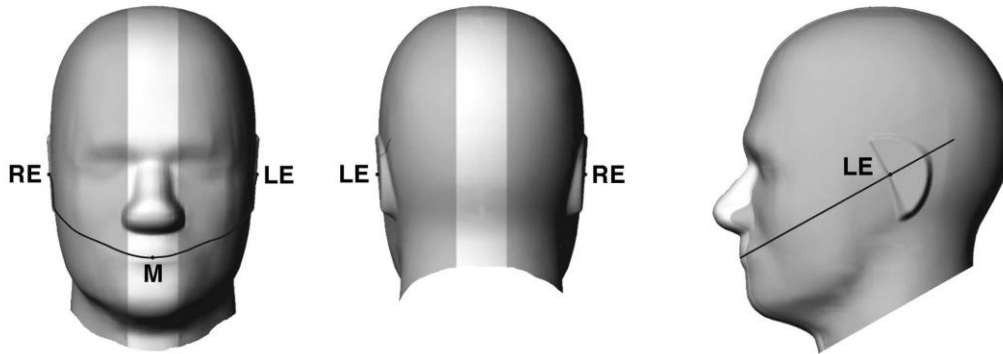


Fig 9.1.1 Front, back, and side views of SAM twin phantom

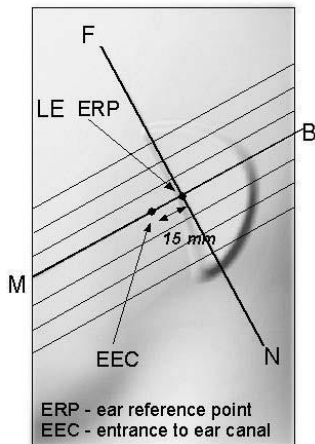


Fig 9.1.2 Close-up side view of phantom showing the ear region.

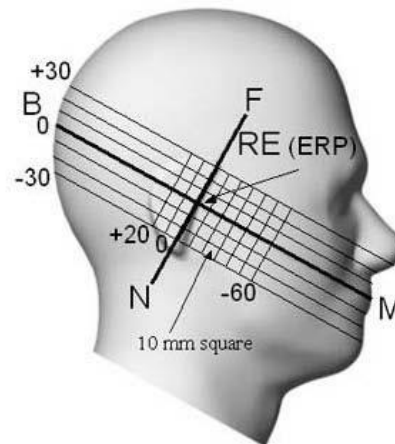


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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 normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

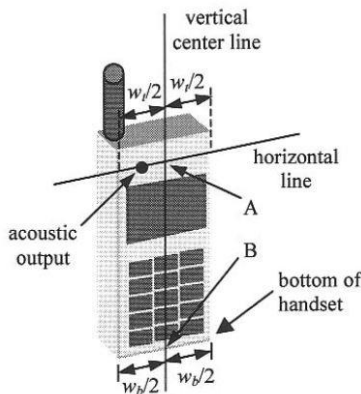


Fig 9.2.1 Handset vertical and horizontal reference lines—“fixed case”

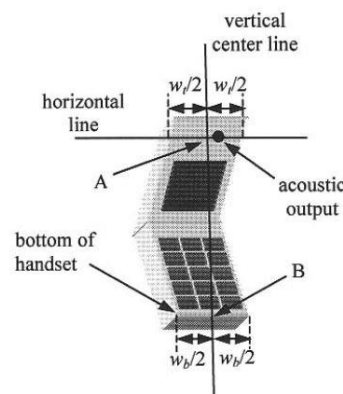


Fig 9.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

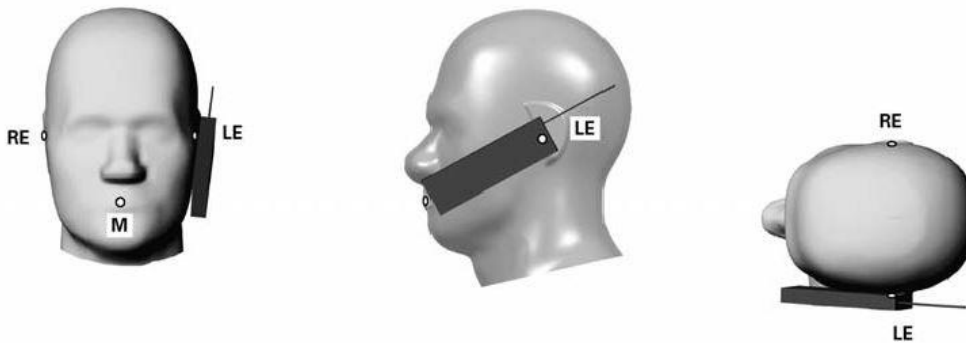


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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

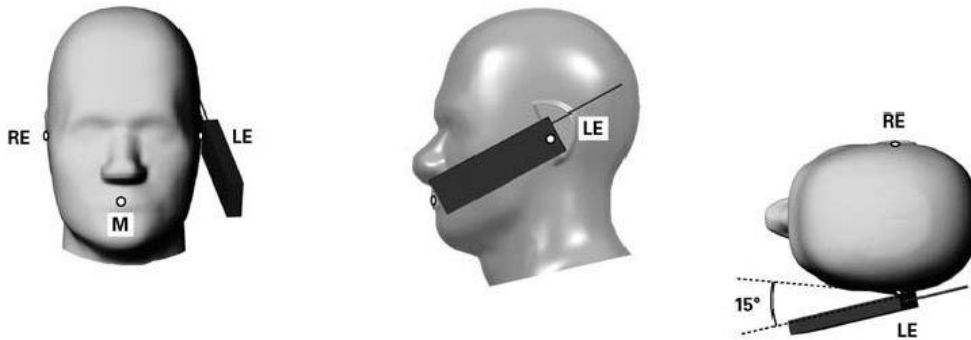


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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 normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 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 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.

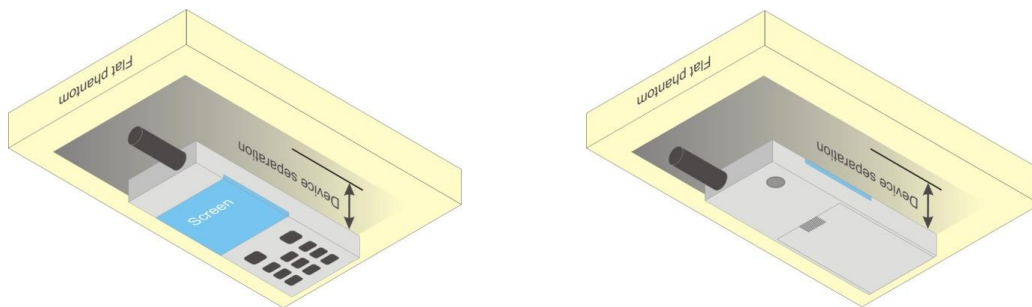


Fig 9.4 Body Worn Position

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

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 x W ≥ 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. DL/UL carrier aggregation

<LTE Carrier Aggregation combinations>

General Note:

1. This device supports Carrier Aggregation on downlink only for inter and intra band, Uplink CA is not supported. For the device supports combination bands and configurations are according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations require power measurement should be highlighted in the below table.

2CC Downlink Carrier Aggregation			3CC Downlink Carrier Aggregation			4CC Downlink Carrier Aggregation		
Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset
1	CA_2C	276	64	CA_41D	224	180	CA_41E	224
2	CA_5B	280	65	CA_48D	285	181	CA_48E	285
3	CA_7B	282	66	CA_66D	286	182	CA_41A-41A-41C	224
4	CA_7C	282	67	CA_25A-25A-25A	223	183	CA_48A-48D	285
5	CA_12B	265	68	CA_41A-41A-41A	224	184	CA_48C-48C	285
6	CA_38C	41	69	CA_41A-41C	224	185	CA_2A-2A-4A-4A	250
7	CA_41C	224	70	CA_48A-48C	285	186	CA_2A-2A-5B	255
8	CA_48B	285	71	CA_66A-66A-66A	286	187	CA_2A-2A-12A-12A	265
9	CA_48C	285	72	CA_66A-66B	286	188	CA_2A-2A-12B	265
10	CA_66B	286	73	CA_66A-66C	286	189	CA_2A-2A-66A-66A	276
11	CA_66C	286	74	CA_2A-2A-4A	250	190	CA_2A-2A-66B	276
12	CA_2A-2A	276	75	CA_2A-2A-5A	255	191	CA_2A-2A-66C	276
13	CA_4A-4A	277	76	CA_2A-2A-7A	262	192	CA_2A-48A-48C	274
14	CA_5A-5A	280	77	CA_2A-2A-12A	265	193	CA_2A-48D	274
15	CA_7A-7A	282	78	CA_2A-2A-13A	269	194	CA_2A-66A-66A-66A	276
16	CA_12A-12A	265	79	CA_2A-2A-14A	270	195	CA_2A-66A-66B	276
17	CA_25A-25A	223	80	CA_2A-2A-29A	272	196	CA_2A-66A-66C	276
18	CA_48A-48A	285	81	CA_2A-2A-66A	276	197	CA_2C-66A-66A	276
19	CA_66A-66A	286	82	CA_2A-2A-71A	276	198	CA_2A-66D	276
20	CA_2A-4A	250	83	CA_2A-4A-4A	250	199	CA_4A-4A-5B	247
21	CA_2A-5A	255	84	CA_2A-5B	255	200	CA_4A-4A-12A-12A	250
22	CA_2A-7A	262	85	CA_2C-5A	255	201	CA_4A-4A-12B	250
23	CA_2A-12A	265	86	CA_2A-7A-7A	262	202	CA_4A-48D	
24	CA_2A-13A	269	87	CA_2A-7C	262	203	CA_5A-5A-66A-66A	280
25	CA_2A-14A	270	88	CA_2A-12A-12A	265	204	CA_5A-5A-66B	280
26	CA_2A-17A		89	CA_2A-12B	265	205	CA_5A-5A-66C	280
27	CA_2A-29A	272	90	CA_2C-12A	265	206	CA_5A-48D	280
28	CA_2A-48A	274	91	CA_2C-29A	272	207	CA_5A-66A-66B	280
29	CA_2A-66A	276	92	CA_2A-48A-48A	274	208	CA_5A-66A-66C	280
30	CA_2A-71A	276	93	CA_2A-48C	274	209	CA_5B-66A-66A	280
31	CA_4A-5A	247	94	CA_2A-66A-66A	276	210	CA_5A-66D	280
32	CA_4A-7A	249	95	CA_2A-66B	276	211	CA_5B-66B	280
33	CA_4A-12A	250	96	CA_2A-66C	276	212	CA_5B-66C	280
34	CA_4A-13A	152	97	CA_2C-66A	276	213	CA_7A-7A-66A-66A	282
35	CA_4A-17A		98	CA_4A-4A-5A	247	214	CA_7C-66A-66A	282
36	CA_4A-29A	277	99	CA_4A-4A-7A	249	215	CA_12B-66A-66A	265
37	CA_4A-48A	202	100	CA_4A-4A-12A	250	216	CA_13A-48A-48C	285
38	CA_4A-71A	234	101	CA_4A-4A-13A	152	217	CA_13A-48D	285
39	CA_5A-7A	279	102	CA_4A-4A-29A	277	218	CA_13A-66A-66B	285
40	CA_5A-25A		103	CA_4A-4A-71A	234	219	CA_13A-66A-66C	285
41	CA_5A-38A		104	CA_4A-5B	247	220	CA_13A-66D	285
42	CA_5A-41A		105	CA_4A-7A-7A	249	221	CA_14A-66A-66A-66A	270
43	CA_5A-48A	280	106	CA_4A-7C	249	222	CA_25A-25A-41C	223



FCC SAR TEST REPORT

Report No. : FA41111B

44	CA_5A-66A	280	107	CA_4A-12A-12A	250	223	CA_25A-41D	
45	CA_7A-12A	236	108	CA_4A-12B	250	224	CA_26A-41D	
46	CA_7A-13A	259	109	CA_4A-48C	202	225	CA_48A-48A-66A-66A	285
47	CA_7A-26A	119	110	CA_5A-5A-66A	280	226	CA_48A-48A-66B	285
48	CA_7A-29A	282	111	CA_5A-7A-7A	279	227	CA_48A-48A-66C	285
49	CA_7A-66A	282	112	CA_5A-7C	279	228	CA_48A-48C-66A	285
50	CA_12A-25A		113	CA_5A-48C	280	229	CA_48C-66A-66A	285
51	CA_12A-66A	265	114	CA_5A-66A-66A	280	230	CA_48C-66B	285
52	CA_13A-48A	285	115	CA_5A-66B	280	231	CA_48C-66C	285
53	CA_13A-66A	285	116	CA_5A-66C	280	232	CA_2A-2A-4A-5A	247
54	CA_14A-30A	240	117	CA_5B-66A	280	233	CA_2A-2A-4A-12A	250
55	CA_14A-66A	270	118	CA_7A-7A-13A	259	234	CA_2A-2A-4A-71A	
56	CA_25A-26A	136	119	CA_7A-7A-26A		235	CA_2A-2A-5A-66A	255
57	CA_25A-41A	223	120	CA_7A-7A-29A	282	236	CA_2A-2A-7A-12A	
58	CA_29A-30A	286	121	CA_7A-7A-66A	282	237	CA_2A-2A-7A-66A	262
59	CA_29A-66A	286	122	CA_7A-12B	236	238	CA_2A-2A-12A-66A	265
60	CA_41A-48A		123	CA_7C-13A	259	239	CA_2A-2A-13A-66A	269
61	CA_48A-66A	285	124	CA_7C-29A	282	240	CA_2A-2A-14A-30A	
62	CA_48A-71A	146	125	CA_7A-66A-66A	282	241	CA_2A-2A-14A-66A	270
63	CA_66A-71A	276	126	CA_7C-66A	282	242	CA_2A-2A-29A-30A	271
			127	CA_12A-66A-66A	265	243	CA_2A-2A-29A-66A	272
			128	CA_12A-66C	265	244	CA_2A-2A-66A-71A	276
			129	CA_12B-66A	265	245	CA_2A-4A-4A-5A	247
			130	CA_13A-48A-48A	285	246	CA_2A-4A-4A-12A	250
			131	CA_13A-48C	285	247	CA_2A-4A-5B	
			132	CA_13A-66A-66A	285	248	CA_2A-4A-7A-7A	249
			133	CA_13A-66B	285	249	CA_2A-4A-7C	
			134	CA_13A-66C	285	250	CA_2A-4A-12B	
			135	CA_14A-66A-66A	270	251	CA_2A-5A-48C	
			136	CA_25A-25A-26A		252	CA_2A-5A-66A-66A	255
			137	CA_25A-25A-41A	223	253	CA_2A-5A-66B	255
			138	CA_25A-41C	223	254	CA_2A-5A-66C	255
			139	CA_29A-66A-66A	286	255	CA_2A-5B-66A	
			140	CA_48A-48A-66A	285	256	CA_2A-7A-7A-13A	259
			141	CA_48A-48A-71A	146	257	CA_2A-7A-7A-29A	260
			142	CA_48A-66A-66A	285	258	CA_2A-7A-7A-66A	262
			143	CA_48A-66B	285	259	CA_2A-7C-13A	
			144	CA_48A-66C	285	260	CA_2A-7C-29A	
			145	CA_48C-66A	285	261	CA_2A-7A-66A-66A	262
			146	CA_48C-71A		262	CA_2A-7C-66A	
			147	CA_66A-66A-71A	276	263	CA_2A-12A-66A-66A	265
			148	CA_66C-71A	276	264	CA_2A-12A-66C	265
			149	CA_2A-4A-5A	247	265	CA_2A-12B-66A	
			150	CA_2A-4A-7A	249	266	CA_2A-13A-48C	
			151	CA_2A-4A-12A	250	267	CA_2A-13A-66A-66A	269
			152	CA_2A-4A-13A		268	CA_2A-13A-66B	269
			153	CA_2A-4A-29A		269	CA_2A-13A-66C	
			154	CA_2A-4A-71A	234	270	CA_2A-14A-66A-66A	
			155	CA_2A-5A-7A		271	CA_2C-29A-30A	
			156	CA_2A-5A-48A	251	272	CA_2A-29A-66A-66A	
			157	CA_2A-5A-66A	255	273	CA_2A-48A-66A-66A	274
			158	CA_2A-7A-12A	236	274	CA_2A-48C-66A	
			159	CA_2A-7A-13A	259	275	CA_2A-66A-66A-71A	276
			160	CA_2A-7A-29A	260	276	CA_2A-66C-71A	
			161	CA_2A-7A-66A	262	277	CA_4A-4A-29A-30A	
			162	CA_2A-12A-66A	265	278	CA_5A-7A-66A-66A	279



			163	CA_2A-13A-48A	266	279	CA_5A-7C-66A	
			164	CA_2A-13A-66A	269	280	CA_5A-48C-66A	
			165	CA_2A-14A-30A	240	281	CA_7A-7A-29A-66A	282
			166	CA_2A-14A-66A	270	282	CA_7C-29A-66A	
			167	CA_2A-29A-30A	271	283	CA_13A-48A-66B	285
			168	CA_2A-29A-66A	272	284	CA_13A-48A-66C	285
			169	CA_2A-48A-66A	274	285	CA_13A-48C-66A	
			170	CA_2A-66A-71A	276	286	CA_29A-30A-66A-66A	
			171	CA_4A-7A-12A				
			172	CA_4A-29A-30A	277			
			173	CA_5A-7A-66A	279			
			174	CA_5A-48A-66A	280			
			175	CA_7A-12A-66A				
			176	CA_7A-29A-66A	282			
			177	CA_13A-48A-66A	285			
			178	CA_14A-30A-66A				
			179	CA_29A-30A-66A	286			



<Power verification when LTE Carrier Aggregation Active>

General Note:

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

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

<Two Carrier power verification>

Configure	PCC							SCC				Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2	20	1880	18900	QPSK	1	0	17	10	740	5790	23.77	24.27
	4	20	1745	20300	QPSK	1	0	17	10	740	5790	23.74	24.17
	5	10	836.5	20525	QPSK	1	0	25	20	1960	8340	24.15	24.36
	5	10	836.5	20525	QPSK	1	0	38	20	2595	38000	23.89	24.36
	5	10	836.5	20525	QPSK	1	0	41	20	2593	40620	23.90	24.36
	12	10	707.5	23095	QPSK	1	0	25	20	1960	8340	23.41	23.88
	41	20	2680	41490	QPSK	1	0	48	20	3609	55830	23.93	24.35



<Three Carrier power verification>

Configure		PCC						SCC1				SCC2				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	13	10	751	5230	23.88	24.27	
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	29	10	722.5	9715	23.78	24.27	
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	7	20	2655	3100	23.87	24.27	
	4	20	1745	20300	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	23.97	24.17	
	7	20	2510	20850	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	23.14	23.61	
	14	10	793	23330	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	23.47	23.80	
Intra-Band	Non-Contiguous	25	20	1880	26340	QPSK	1	0	25	5	1992.5	8665	26	15	876.5	8865	23.93	24.21
		7	20	2510	20850	QPSK	1	0	7	5	2687.5	3425	26	15	876.5	8865	23.20	23.61
		48	20	3690	56640	QPSK	1	0	48	20	3670.2	56442	71	20	634.5	68761	22.05	22.46

<Four Carrier power verification>

Configure		PCC						SCC1				SCC2				SCC3				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)
Inter-Band	4	20	1745	20300	QPSK	1	0	48	20	3560	55340	48	20	3579.8	55538	48	20	3599.6	55736	23.83	24.17
	25	20	1880	26340	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	41016	23.93	24.21
	26	15	841.5	26965	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	41016	24.07	24.42
	2	20	1880	18900	QPSK	1	0	2	5	1175	1987.5	4	20	2132.5	2175	71	20	634.5	68761	23.80	24.27
	2	20	1880	18900	QPSK	1	0	2	5	1175	1987.5	7	20	2655	3100	12	10	737.5	5095	24.00	24.27
	2	20	1880	18900	QPSK	1	0	2	5	1175	1987.5	14	10	763	5330	30	10	2355	9820	23.82	24.27
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	5	10	889	2600	5	5	881.8	2528	23.79	24.27
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	7	20	2655	3100	7	20	2635.2	2902	24.03	24.27
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	12	10	741	5130	12	5	733.8	5058	23.83	24.27
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	48	20	3560	55340	48	20	3579.8	55538	23.89	24.27
	2	20	1880	18900	QPSK	1	0	5	10	889	2600	5	5	881.8	2528	66	20	2155	66886	23.92	24.27
	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	20	2635.2	2902	13	10	751	5230	23.90	24.27
	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	20	2635.2	2902	29	10	722.5	9715	23.99	24.27
	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	20	2635.2	2902	66	20	2155	66886	23.78	24.27
	2	20	1880	18900	QPSK	1	0	12	10	741	5130	12	5	733.8	5058	66	20	2155	66886	23.97	24.27
	2	20	1880	18900	QPSK	1	0	13	10	751	5230	48	20	3560	55340	48	20	3579.8	55538	23.91	24.27
	2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	20	2155	66886	66	20	2174.8	67084	24.00	24.27
	2	20	1880	18900	QPSK	1	0	14	10	763	5330	66	20	2155	66886	66	5	2197.5	67311	23.77	24.27
	2	20	1880	18900	QPSK	1	0	2	20	1940.2	702	29	10	722.5	9715	30	10	2355	9820	23.98	24.27
	2	20	1880	18900	QPSK	1	0	29	10	722.5	9715	66	20	2155	66886	66	5	2197.5	67311	23.79	24.27
	2	20	1880	18900	QPSK	1	0	48	20	3560	55340	48	20	3579.8	55538	66	20	2155	66886	23.91	24.27
	2	20	1880	18900	QPSK	1	0	66	20	2155	66886	66	20	2174.8	67084	71	20	634.5	68761	23.92	24.27
	4	20	1745	20300	QPSK	1	0	4	5	2112.5	1975	29	10	722.5	9715	30	10	2355	9820	23.78	24.17
	5	10	836.5	20525	QPSK	1	0	7	20	2655	3100	7	20	2674.8	3298	66	20	2155	66886	23.86	24.36
	5	10	836.5	20525	QPSK	1	0	48	20	3690	56640	48	20	3670.2	56442	66	20	2155	66886	24.15	24.36
	7	20	2510	20850	QPSK	1	0	7	20	2649.8	3048	29	10	722.5	9715	66	20	2155	66886	23.31	23.61
	13	10	782	23230	QPSK	1	0	48	20	3690	56640	48	20	3670.2	56442	66	20	2155	66886	23.28	23.78
	30	10	2310	27710	QPSK	1	0	29	10	722.5	9715	66	20	2120	66536	66	5	2197.5	67311	23.60	23.85

<LTE Uplink carrier aggregation>

2CC Uplink Carrier Aggregation	
Number	Combination
1	CA_2C
2	CA_5B
3	CA_7C
4	CA_38C
5	CA_41C
6	CA_66B
7	CA_66C

<Intra-band>**General Note:**

- i. The device supports intra-band uplink carrier aggregation for LTE B66/B41/B48 with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. The device supports uplink carrier aggregation with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
- iii. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iv. Additional SAR measurement for LTE UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

DSI 0

CA_2C_DSI 0_Ant 1 (Wlan On / Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
18700	18898	QPSK	1	0	0	0	1	0	24.01	25.2
18900	18702	QPSK	1	0	0	0	2	0	24.11	25.2
19100	18902	QPSK	1	0	0	0	2	0	24.13	25.2

CA_5B_DSI 0_Ant 1 (Wlan On / Off)										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	24.02	25.2
20475	20574	QPSK	1	49	1	0	2	0	24.23	25.2
20600	20501	QPSK	1	0	1	49	2	0	24.25	25.2

CA_7C_DSI 0_Ant 5 (Wlan On / Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.22	25.2
21100	20902	QPSK	1	0	1	99	2	0	23.38	25.2
21350	21152	QPSK	1	0	1	99	2	0	23.34	25.2

CA_66B_DSI 0_Ant 1 (Wlan On / Off)										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	23.95	25.2
132322	132229	QPSK	1	0	1	24	2	0	24.08	25.2
132597	132504	QPSK	1	0	1	24	2	0	24.07	25.2

CA_66C_DSI 0_Ant 1 (Wlan On / Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	24.01	25.2
132322	132124	QPSK	1	0	1	99	2	0	24.09	25.2
132572	132374	QPSK	1	0	1	99	2	0	24.06	25.2

CA_38C_DSI 0_Ant 5 (Wlan On / Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	23.2	25.2
37901	38099	QPSK	1	0	0	0	1	0	23.42	25.2
38150	37952	QPSK	1	0	1	99	2	0	23.38	25.2

CA_41C_DSI 0_Ant 5 (Wlan On / Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.55	25.2
40185	39987	QPSK	1	0	1	99	2	0	24.15	25.2
40620	40422	QPSK	1	0	1	99	2	0	24.23	25.2
41055	40857	QPSK	1	0	1	99	2	0	24.01	25.2
41490	41292	QPSK	1	0	1	99	2	0	24.35	25.2

CA_48C_DSI 0_Ant 8 (Wlan On / Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	0	0	0	1	0	22.37	24
55830	55632	QPSK	1	0	1	99	2	0	22.39	24
56150	55952	QPSK	1	0	1	99	2	0	22.36	24
56640	56442	QPSK	1	0	1	99	2	0	22.45	24

DSI 2_Head

CA_2C_DSI 2_Ant 1 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
18700	18898	QPSK	1	0	0	0	1	0	24.01	25.2
18900	18702	QPSK	1	0	0	0	2	0	24.11	25.2
19100	18902	QPSK	1	0	0	0	2	0	24.13	25.2

CA_5B_DSI 2_Ant 1 (Wlan Off)										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	24.02	25.2
20475	20574	QPSK	1	49	1	0	2	0	24.23	25.2
20600	20501	QPSK	1	0	1	49	2	0	24.25	25.2

CA_7C_DSI 2_Ant 5 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.22	25.2
21100	20902	QPSK	1	0	1	99	2	0	23.38	25.2
21350	21152	QPSK	1	0	1	99	2	0	23.34	25.2

CA_66B_DSI 2_Ant 1 (Wlan Off)										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	23.95	25.2
132322	132229	QPSK	1	0	1	24	2	0	24.08	25.2
132597	132504	QPSK	1	0	1	24	2	0	24.07	25.2

CA_66C_DSI 2_Ant 1 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	24.01	25.2
132322	132124	QPSK	1	0	1	99	2	0	24.09	25.2
132572	132374	QPSK	1	0	1	99	2	0	24.06	25.2

CA_38C_DSI 2_Ant 5 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	23.2	25.2
37901	38099	QPSK	1	0	0	0	1	0	23.42	25.2
38150	37952	QPSK	1	0	1	99	2	0	23.38	25.2



CA_41C_DSI_2_Ant 5 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.55	25.2
40185	39987	QPSK	1	0	1	99	2	0	24.15	25.2
40620	40422	QPSK	1	0	1	99	2	0	24.23	25.2
41055	40857	QPSK	1	0	1	99	2	0	24.01	25.2
41490	41292	QPSK	1	0	1	99	2	0	24.35	25.2

CA_48C_DSI_2_Ant 8 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	0	0	0	1	0	22.37	24
55830	55632	QPSK	1	0	1	99	2	0	22.39	24
56150	55952	QPSK	1	0	1	99	2	0	22.36	24
56640	56442	QPSK	1	0	1	99	2	0	22.45	24

CA_66B_DSI_2_Ant 1 (Wlan On)										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	23.95	24.7
132322	132229	QPSK	1	0	1	24	2	0	24.08	24.7
132597	132504	QPSK	1	0	1	24	2	0	24.07	24.7

CA_66C_DSI_2_Ant 1 (Wlan On)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	24.01	24.7
132322	132124	QPSK	1	0	1	99	2	0	24.09	24.7
132572	132374	QPSK	1	0	1	99	2	0	24.06	24.7



DSI 3 Hotspot

CA_2C_DSI 3_Ant 1 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
18700	18898	QPSK	1	0	0	0	1	0	22.1	23.1
18900	18702	QPSK	1	0	0	0	2	0	22.32	23.1
19100	18902	QPSK	1	0	0	0	2	0	22.33	23.1

CA_5B_DSI 3_Ant 1 (Wlan Off)										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	24.02	25.2
20475	20574	QPSK	1	49	1	0	2	0	24.23	25.2
20600	20501	QPSK	1	0	1	49	2	0	24.25	25.2

CA_7C_DSI 3_Ant 5 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.22	23.9
21100	20902	QPSK	1	0	1	99	2	0	23.38	23.9
21350	21152	QPSK	1	0	1	99	2	0	23.34	23.9

CA_66B_DSI 3_Ant 1 (Wlan Off)										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	19.85	21.7
132322	132229	QPSK	1	0	1	24	2	0	20.09	21.7
132597	132504	QPSK	1	0	1	24	2	0	20.11	21.7

CA_66C_DSI 3_Ant 1 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	19.92	21.7
132322	132124	QPSK	1	0	1	99	2	0	20.08	21.7
132572	132374	QPSK	1	0	1	99	2	0	20.13	21.7

CA_38C_DSI 3_Ant 5 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	22.85	23.4
37901	38099	QPSK	1	0	0	0	1	0	23.08	23.4
38150	37952	QPSK	1	0	1	99	2	0	23.13	23.4

CA_41C_DSI 3_Ant 5 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	22.89	23.4
40185	39987	QPSK	1	0	1	99	2	0	23.17	23.4
40620	40422	QPSK	1	0	1	99	2	0	23.23	23.4
41055	40857	QPSK	1	0	1	99	2	0	23.12	23.4
41490	41292	QPSK	1	0	1	99	2	0	23.35	23.4



CA_48C_DSI 3_Ant 8 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	0	0	0	1	0	22.37	24
55830	55632	QPSK	1	0	1	99	2	0	22.39	24
56150	55952	QPSK	1	0	1	99	2	0	22.36	24
56640	56442	QPSK	1	0	1	99	2	0	22.45	24

DSI 1_Body-worn

CA_2C_DSI 1_Ant 1 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
18700	18898	QPSK	1	0	0	0	1	0	24.01	24.4
18900	18702	QPSK	1	0	0	0	2	0	24.11	24.4
19100	18902	QPSK	1	0	0	0	2	0	24.13	24.4

CA_5B_DSI 1_Ant 1 (Wlan Off)										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	24.02	25.2
20475	20574	QPSK	1	49	1	0	2	0	24.23	25.2
20600	20501	QPSK	1	0	1	49	2	0	24.25	25.2

CA_7C_DSI 1_Ant 5 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.27	22.5
21100	20902	QPSK	1	0	1	99	2	0	22.38	22.5
21350	21152	QPSK	1	0	1	99	2	0	22.35	22.5

CA_66B_DSI 1_Ant 1 (Wlan Off)										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	22.76	24.3
132322	132229	QPSK	1	0	1	24	2	0	23.27	24.3
132597	132504	QPSK	1	0	1	24	2	0	23.29	24.3

CA_66C_DSI 1_Ant 1 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	22.85	24.3
132322	132124	QPSK	1	0	1	99	2	0	23.33	24.3
132572	132374	QPSK	1	0	1	99	2	0	23.34	24.3

CA_38C_DSI 1_Ant 5 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	23.2	24.5
37901	38099	QPSK	1	0	0	0	1	0	23.42	24.5
38150	37952	QPSK	1	0	1	99	2	0	23.38	24.5



CA_41C_DSI_1_Ant 5 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.4	24.5
40185	39987	QPSK	1	0	1	99	2	0	23.65	24.5
40620	40422	QPSK	1	0	1	99	2	0	23.72	24.5
41055	40857	QPSK	1	0	1	99	2	0	23.55	24.5
41490	41292	QPSK	1	0	1	99	2	0	23.78	24.5

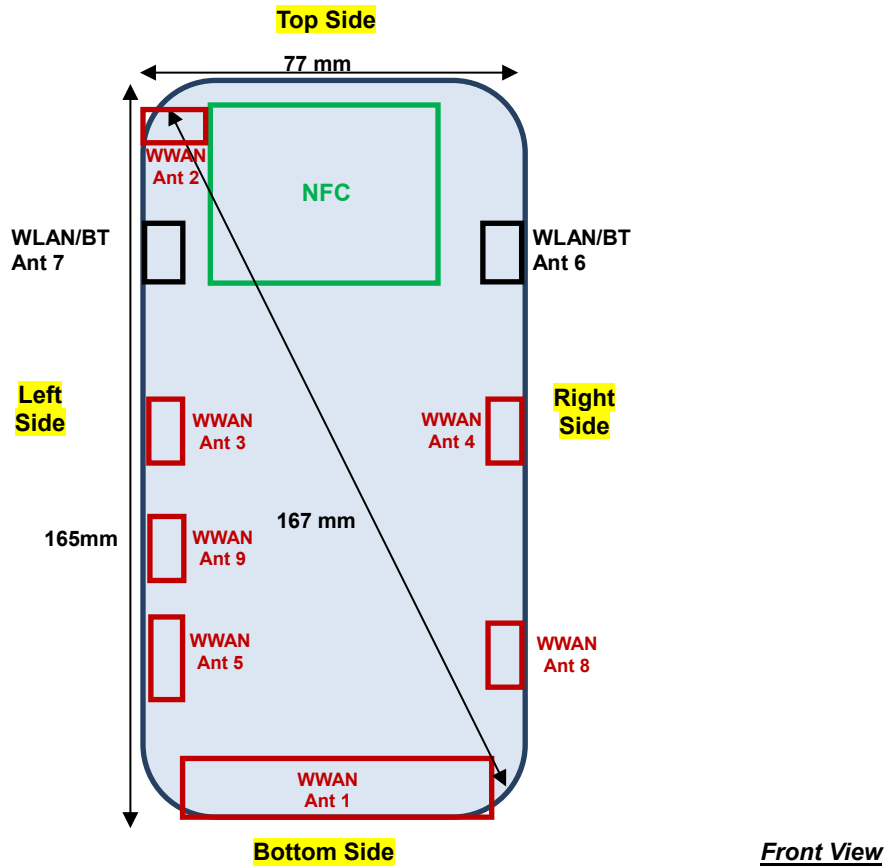
CA_48C_DSI_1_Ant 8 (Wlan Off)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	0	0	0	1	0	22.37	24
55830	55632	QPSK	1	0	1	99	2	0	22.39	24
56150	55952	QPSK	1	0	1	99	2	0	22.36	24
56640	56442	QPSK	1	0	1	99	2	0	22.45	24

CA_2C_DSI_1_Ant 1 (Wlan On)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
18700	18898	QPSK	1	0	0	0	1	0	22.1	23.5
18900	18702	QPSK	1	0	0	0	2	0	22.32	23.5
19100	18902	QPSK	1	0	0	0	2	0	22.33	23.5

CA_66B_DSI_1_Ant 1 (Wlan On)										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	21.66	22.6
132322	132229	QPSK	1	0	1	24	2	0	22.17	22.6
132597	132504	QPSK	1	0	1	24	2	0	22.2	22.6

CA_66C_DSI_1_Ant 1 (Wlan On)										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	21.81	22.6
132322	132124	QPSK	1	0	1	99	2	0	22.19	22.6
132572	132374	QPSK	1	0	1	99	2	0	22.22	22.6

12. Antenna Location



Distance of the Antenna to the EUT surface/edge						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 1	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 2	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	>25mm	≤ 25mm
WWAN Ant 3	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm	≤ 25mm
WWAN Ant 4	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	>25mm
WWAN Ant 5	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm	≤ 25mm
WWAN Ant 8	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	>25mm
WWAN Ant 9	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm	≤ 25mm
BT&WLAN Ant 6	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm
BT&WLAN Ant 7	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm

Positions for SAR tests; Hotspot mode						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 1	Yes	Yes	Yes	Yes	Yes	Yes
WWAN Ant 2	Yes	Yes	Yes	No	No	Yes
WWAN Ant 3	Yes	Yes	No	Yes	No	Yes
WWAN Ant 4	Yes	Yes	No	Yes	Yes	No
WWAN Ant 5	Yes	Yes	No	Yes	No	Yes
WWAN Ant 8	Yes	Yes	No	Yes	Yes	No
WWAN Ant 9	Yes	Yes	No	Yes	No	Yes
BT&WLAN Ant 6	Yes	Yes	Yes	Yes	Yes	Yes
BT&WLAN Ant 7	Yes	Yes	Yes	Yes	Yes	Yes

General Note:

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.



13. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold, for this device only bottom side SAR for WWAN transmitter scaled to maximum output power is higher than 1.2W/kg of WCDMA B4, LTE B4/66 and 5G NR n66/n77, therefore product specific SAR is necessary.
6. For 5.3GHz / 5.5GHz / 5.8GHz / 6GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is > 16 cm.
7. When the WiFi is on or off, the device WWAN operation will limit different output power, the RF Exposure evaluation was used higher power level perform and assessment Sim-Tx analysis, if some exposure position does not meet simultaneous transmission requirement, additional SAR at lower power level to meet Sim-Tx compliance.
8. The device support DBS mode (Dual band simultaneous) for WLAN operation, for RF Exposure was performed at non-DBS power level to do DBS Sim-Tx analysis, if some exposure position does not meet simultaneous transmission requirement additional SAR at DBS power level to meet Sim-Tx compliance.

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

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4/B5/B12/B17/B26/B38/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

5G NR Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
 - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - b. For PI/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - d. Smaller bandwidth output power for each RB allocation configuration for this device is not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
 - e. For 5G FR1 n5/n12/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
 - f. The NR n2/38 SAR test was covered by NR n25/41; due to SAR test for overlapping NR bands can be reduced if the maximum power including tolerance, for the smaller band is \leq the larger band to qualify for the SAR test exclusion and the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.
 - g. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission.

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, WLAN5.2GHz SAR testing is not required when the WLAN5.3GHz band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WLAN5.2GHz band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain
6. Additional SISO operation for 2.4GHz WLAN is performed Sim-Tx analysis.
7. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

WLAN PD Note:

1. The WiFi 6E PD was performed according 2020 TCB workshop RF Exposure 5G RFX Policies Interim Procedures.
2. First, evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and using highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane).
3. Per Interim Procedures. The power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor
4. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. The WiFi 6E RF Exposure results are used for simultaneous transmission analysis with the other transmitters and total exposure ratio, the analysis can be found in this report section 14.
6. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
7. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
8. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
9. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

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

NFC Note:

1. NFC was evaluated for extremity based on hand usage conditions.
2. NFC 13.56MHz antenna port is not available on the device to support conducted power measurement, therefore the measured results are referred to as reported SAR.
3. NFC SAR test tissue-simulating liquid parameter: refer to IEC/IEEE 62209-1528 2020.



13.1 Head SAR

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	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)
1	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	9538	1907.6	23.71	25.20	1.409	0.02	0.484	0.682
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	9538	1907.6	23.71	25.20	1.409	0.08	0.225	0.317
	WCDMA II_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	9538	1907.6	23.71	25.20	1.409	0.01	0.249	0.351
	WCDMA II_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	9538	1907.6	23.71	25.20	1.409	0.03	0.195	0.275
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	9538	1907.6	23.71	25.20	1.409	-0.08	0.431	0.607
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	9538	1907.6	23.71	25.20	1.409	-0.08	0.482	0.679
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	9538	1907.6	23.71	25.20	1.409	0.1	0.482	0.679
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	9538	1907.6	23.71	25.20	1.409	-0.18	0.479	0.675
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	9538	1907.6	23.71	25.20	1.409	0.1	0.475	0.669
	WCDMA II_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	9538	1907.6	23.71	25.20	1.409	0.12	0.472	0.665
2	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	1513	1752.6	24.44	25.20	1.191	-0.02	0.746	0.889
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	1312	1712.4	24.21	25.20	1.256	0.05	0.703	0.883
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	1413	1732.6	24.43	25.20	1.194	-0.12	0.712	0.850
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	1513	1752.6	24.44	25.20	1.191	-0.17	0.272	0.324
	WCDMA IV_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	1513	1752.6	24.44	25.20	1.191	-0.03	0.427	0.509
	WCDMA IV_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	1513	1752.6	24.44	25.20	1.191	0.14	0.193	0.230
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	1513	1752.6	24.44	25.20	1.191	0.11	0.661	0.787
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	1513	1752.6	24.44	25.20	1.191	-0.05	0.669	0.797
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	1513	1752.6	24.44	25.20	1.191	0.18	0.727	0.866
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	1513	1752.6	24.44	25.20	1.191	0.14	0.718	0.855
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	1513	1752.6	24.44	25.20	1.191	-0.17	0.735	0.876
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	1513	1752.6	24.44	25.20	1.191	0.17	0.737	0.878
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	Wlan On	DSI 2	1513	1752.6	24.44	24.70	1.062	-0.02	0.746	0.792
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	4132	826.4	24.68	25.20	1.127	0.01	0.297	0.335
	WCDMA V_Ant 1	RMC 12.2Kbps	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	4132	826.4	24.68	25.20	1.127	0.1	0.186	0.210
3	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	4132	826.4	24.68	25.20	1.127	-0.04	0.352	0.397
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	4132	826.4	24.68	25.20	1.127	-0.17	0.209	0.236
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	4132	826.4	24.68	25.20	1.127	0.04	0.337	0.380
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	4132	826.4	24.68	25.20	1.127	-0.01	0.338	0.381
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	4132	826.4	24.68	25.20	1.127	-0.08	0.347	0.391
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	4132	826.4	24.68	25.20	1.127	0.05	0.340	0.383
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	4132	826.4	24.68	25.20	1.127	0.06	0.344	0.388
	WCDMA V_Ant 1	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	4132	826.4	24.68	25.20	1.127	-0.09	0.328	0.370



<LTE SAR>

Table with 17 columns: Plot No., Band, BW (MHz), Modulation, RB Size, RB offset, Test Position, Gap (mm), Sample, Battery, Wlan On / Off, Power State, 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 various test configurations for LTE Bands 7, 12, 13, and 14.



FCC SAR TEST REPORT

Report No. : FA41111B

8	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	24.21	25.20	1.256	-0.01	0.535	0.672
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	23.35	24.20	1.216	0.16	0.399	0.485
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	24.21	25.20	1.256	-0.03	0.216	0.271
	LTE Band 25_Ant 1	20M	QPSK	50	24	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	23.35	24.20	1.216	0.07	0.188	0.229
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	24.21	25.20	1.256	0	0.314	0.394
	LTE Band 25_Ant 1	20M	QPSK	50	24	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	23.35	24.20	1.216	0.01	0.260	0.316
	LTE Band 25_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	24.21	25.20	1.256	-0.01	0.215	0.270
	LTE Band 25_Ant 1	20M	QPSK	50	24	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	23.35	24.20	1.216	-0.06	0.186	0.226
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	26340	1880	24.21	25.20	1.256	-0.04	0.504	0.633
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	26340	1880	24.21	25.20	1.256	-0.09	0.529	0.664
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	26340	1880	24.21	25.20	1.256	-0.17	0.511	0.642
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	26340	1880	24.21	25.20	1.256	-0.1	0.523	0.657
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	26340	1880	24.21	25.20	1.256	0.18	0.530	0.666
	LTE Band 25_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	26340	1880	24.21	25.20	1.256	-0.17	0.533	0.669
	LTE Band 2C_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	19100+18902	1900	24.13	25.20	1.279	0.05	0.505	0.646
	LTE Band 25_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	24.19	25.20	1.262	-0.05	0.083	0.105
	LTE Band 25_Ant 5	20M	QPSK	50	50	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	22.98	24.20	1.324	0	0.064	0.085
	LTE Band 25_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	24.19	25.20	1.262	-0.13	0.041	0.052
	LTE Band 25_Ant 5	20M	QPSK	50	50	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	22.98	24.20	1.324	-0.01	0.030	0.040
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	24.19	25.20	1.262	0.11	0.162	0.204
	LTE Band 25_Ant 5	20M	QPSK	50	50	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	22.98	24.20	1.324	-0.09	0.105	0.139
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	24.19	25.20	1.262	0.05	0.024	0.030
	LTE Band 25_Ant 5	20M	QPSK	50	50	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26340	1880	22.98	24.20	1.324	0.02	0.015	0.020
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	26340	1880	24.19	25.20	1.262	-0.13	0.148	0.187
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	26340	1880	24.19	25.20	1.262	0.17	0.156	0.197
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	26340	1880	24.19	25.20	1.262	0.06	0.156	0.197
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	26340	1880	24.19	25.20	1.262	0	0.159	0.201
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	26340	1880	24.19	25.20	1.262	-0.04	0.154	0.194
	LTE Band 25_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	26340	1880	24.19	25.20	1.262	-0.15	0.148	0.187
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26865	831.5	24.39	25.20	1.205	-0.02	0.299	0.360
	LTE Band 26_Ant 1	15M	QPSK	36	20	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26865	831.5	23.51	24.20	1.172	0.1	0.253	0.297
	LTE Band 26_Ant 1	15M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26865	831.5	24.39	25.20	1.205	0.04	0.192	0.231
	LTE Band 26_Ant 1	15M	QPSK	36	20	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26865	831.5	23.51	24.20	1.172	0.13	0.168	0.197
9	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26865	831.5	24.39	25.20	1.205	-0.07	0.324	0.390
	LTE Band 26_Ant 1	15M	QPSK	36	20	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26865	831.5	23.51	24.20	1.172	-0.18	0.283	0.332
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26865	831.5	24.39	25.20	1.205	-0.11	0.201	0.242
	LTE Band 26_Ant 1	15M	QPSK	36	20	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	26865	831.5	23.51	24.20	1.172	-0.16	0.174	0.204
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	26865	831.5	24.39	25.20	1.205	-0.15	0.283	0.341
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	26865	831.5	24.39	25.20	1.205	-0.06	0.298	0.359
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	26865	831.5	24.39	25.20	1.205	-0.14	0.304	0.366
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	26865	831.5	24.39	25.20	1.205	-0.19	0.287	0.346
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	26865	831.5	24.39	25.20	1.205	0.01	0.294	0.354
	LTE Band 26_Ant 1	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	26865	831.5	24.39	25.20	1.205	0.06	0.295	0.355
	LTE Band 5B_Ant 1	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	20600+20501	844	24.25	25.20	1.245	0.05	0.309	0.385
	LTE Band 30_Ant 5	10M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	27710	2310	23.85	25.20	1.365	-0.01	0.152	0.207
	LTE Band 30_Ant 5	10M	QPSK	25	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	27710	2310	22.89	24.20	1.352	0	0.130	0.176
	LTE Band 30_Ant 5	10M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	27710	2310	23.85	25.20	1.365	-0.11	0.066	0.090
	LTE Band 30_Ant 5	10M	QPSK	25	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	27710	2310	22.89	24.20	1.352	-0.06	0.057	0.077
10	LTE Band 30_Ant 5	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	27710	2310	23.85	25.20	1.365	-0.07	0.217	0.296
	LTE Band 30_Ant 5	10M	QPSK	25	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	27710	2310	22.89	24.20	1.352	-0.15	0.176	0.238
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	27710	2310	23.85	25.20	1.365	0.03	0.052	0.071
	LTE Band 30_Ant 5	10M	QPSK	25	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	27710	2310	22.89	24.20	1.352	-0.13	0.045	0.061
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	27710	2310	23.85	25.20	1.365	0.16	0.194	0.265
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	27710	2310	23.85	25.20	1.365	-0.15	0.166	0.227
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	27710	2310	23.85	25.20	1.365	-0.02	0.210	0.287
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	27710	2310	23.85	25.20	1.365	-0.09	0.190	0.259
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	27710	2310	23.85	25.20	1.365	0.14	0.181	0.247
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	27710	2310	23.85	25.20	1.365	0.1	0.178	0.243



FCC SAR TEST REPORT

Report No. : FA41111B

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	41490	2680	24.35	25.20	1.216	62.9	1.006	0.07	0.005	0.006
	LTE Band 41_Ant 5	20M	QPSK	50	24	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	41490	2680	23.37	24.20	1.211	62.9	1.006	-0.09	0.003	0.004
	LTE Band 41_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	41490	2680	24.35	25.20	1.216	62.9	1.006	-0.16	0.003	0.004
	LTE Band 41_Ant 5	20M	QPSK	50	24	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	41490	2680	23.37	24.20	1.211	62.9	1.006	-0.18	0.002	0.002
11	LTE Band 41_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	41490	2680	24.35	25.20	1.216	62.9	1.006	-0.07	0.015	0.018
	LTE Band 41_Ant 5	20M	QPSK	50	24	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	41490	2680	23.37	24.20	1.211	62.9	1.006	-0.07	0.012	0.015
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	41490	2680	24.35	25.20	1.216	62.9	1.006	0.11	0.007	0.009
	LTE Band 41_Ant 5	20M	QPSK	50	24	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	41490	2680	23.37	24.20	1.211	62.9	1.006	-0.08	0.005	0.006
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	41490	2680	24.35	25.20	1.216	62.9	1.006	-0.1	0.010	0.012
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	41490	2680	24.35	25.20	1.216	62.9	1.006	-0.01	0.011	0.013
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	41490	2680	24.35	25.20	1.216	62.9	1.006	-0.09	0.014	0.017
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	41490	2680	24.35	25.20	1.216	62.9	1.006	-0.06	0.012	0.015
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	41490	2680	24.35	25.20	1.216	62.9	1.006	-0.17	0.013	0.016
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	41490	2680	24.35	25.20	1.216	62.9	1.006	-0.01	0.013	0.016
	LTE Band 41_HPUE_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	41490	2680	26.09	27.00	1.233	42.9	1.009	0	0.014	0.017
	LTE Band 38C_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	37901+38099	2585.1	23.42	25.20	1.507	62.9	1.006	-0.03	0.008	0.012
	LTE Band 41C_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	41490+41292	2680	24.35	25.20	1.216	62.9	1.006	0.02	0.013	0.016
12	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	22.46	24.00	1.426	62.9	1.006	0.12	0.441	0.632
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	55340	3560	22.26	24.00	1.493	62.9	1.006	0.08	0.375	0.563
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	55830	3609	22.39	24.00	1.449	62.9	1.006	0.01	0.427	0.622
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56150	3641	22.39	24.00	1.449	62.9	1.006	0.03	0.433	0.631
	LTE Band 48_Ant 8	20M	QPSK	50	50	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	21.51	23.00	1.409	62.9	1.006	0.14	0.373	0.529
	LTE Band 48_Ant 8	20M	QPSK	100	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	21.51	23.00	1.409	62.9	1.006	-0.01	0.405	0.574
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	22.46	24.00	1.426	62.9	1.006	0.03	0.069	0.099
	LTE Band 48_Ant 8	20M	QPSK	50	50	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	21.51	23.00	1.409	62.9	1.006	0.1	0.059	0.084
	LTE Band 48_Ant 8	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	22.46	24.00	1.426	62.9	1.006	0.16	0.158	0.227
	LTE Band 48_Ant 8	20M	QPSK	50	50	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	21.51	23.00	1.409	62.9	1.006	-0.06	0.135	0.191
	LTE Band 48_Ant 8	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	22.46	24.00	1.426	62.9	1.006	0.02	0.093	0.133
	LTE Band 48_Ant 8	20M	QPSK	50	50	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	21.51	23.00	1.409	62.9	1.006	-0.16	0.084	0.119
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	56640	3690	22.46	24.00	1.426	62.9	1.006	0.05	0.286	0.410
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	56640	3690	22.46	24.00	1.426	62.9	1.006	-0.03	0.385	0.552
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	56640	3690	22.46	24.00	1.426	62.9	1.006	0.17	0.440	0.631
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	56640	3690	22.46	24.00	1.426	62.9	1.006	-0.15	0.389	0.558
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	56640	3690	22.46	24.00	1.426	62.9	1.006	0.16	0.399	0.572
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	56640	3690	22.46	24.00	1.426	62.9	1.006	0.05	0.420	0.602
	LTE Band 48C_Ant 8	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640+56442	3690	22.45	24.00	1.429	62.9	1.006	0.09	0.429	0.617
	LTE Band 48_Ant 9	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.13	0.032	0.041
	LTE Band 48_Ant 9	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	21.84	23.00	1.306	62.9	1.006	-0.01	0.028	0.037
	LTE Band 48_Ant 9	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.11	0.001	0.001
	LTE Band 48_Ant 9	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	21.84	23.00	1.306	62.9	1.006	0.19	0.001	0.001
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.06	0.202	0.256
	LTE Band 48_Ant 9	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	21.84	23.00	1.306	62.9	1.006	-0.14	0.145	0.191
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.18	0.018	0.023
	LTE Band 48_Ant 9	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	56640	3690	21.84	23.00	1.306	62.9	1.006	-0.06	0.005	0.007
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	56640	3690	23.00	24.00	1.259	62.9	1.006	0.02	0.162	0.205
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	56640	3690	23.00	24.00	1.259	62.9	1.006	0.16	0.154	0.195
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	56640	3690	23.00	24.00	1.259	62.9	1.006	0.01	0.196	0.248
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.04	0.190	0.241
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	56640	3690	23.00	24.00	1.259	62.9	1.006	0.13	0.184	0.233
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	56640	3690	23.00	24.00	1.259	62.9	1.006	0.12	0.186	0.236



FCC SAR TEST REPORT

Report No. : FA41111B

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	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)
13	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322	1745	24.10	25.20	1.288	-0.01	0.624	0.804
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132072	1720	23.76	25.20	1.393	-0.09	0.566	0.789
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132572	1770	23.99	25.20	1.321	0.04	0.598	0.790
	LTE Band 66_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322	1745	23.15	24.20	1.274	0.08	0.500	0.637
	LTE Band 66_Ant 1	20M	QPSK	100	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322	1745	23.03	24.20	1.309	-0.03	0.510	0.668
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322	1745	24.10	25.20	1.288	0.19	0.258	0.332
	LTE Band 66_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322	1745	23.15	24.20	1.274	-0.06	0.206	0.262
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322	1745	24.10	25.20	1.288	0	0.286	0.368
	LTE Band 66_Ant 1	20M	QPSK	50	50	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322	1745	23.15	24.20	1.274	-0.03	0.196	0.250
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322	1745	24.10	25.20	1.288	0.07	0.124	0.160
	LTE Band 66_Ant 1	20M	QPSK	50	50	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322	1745	23.15	24.20	1.274	-0.12	0.096	0.122
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	132322	1745	24.10	25.20	1.288	-0.03	0.605	0.779
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	132322	1745	24.10	25.20	1.288	0.02	0.619	0.797
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	132322	1745	24.10	25.20	1.288	0.12	0.561	0.723
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	132322	1745	24.10	25.20	1.288	0.02	0.536	0.691
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	132322	1745	24.10	25.20	1.288	-0.03	0.510	0.657
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	132322	1745	24.10	25.20	1.288	0	0.529	0.681
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan On	DSI 2	132322	1745	24.10	24.70	1.148	-0.01	0.624	0.716
	LTE Band 66B_Ant 1	15M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322+132229	1745	24.08	25.20	1.294	0.03	0.619	0.801
	LTE Band 66C_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132322+132124	1745	24.09	25.20	1.291	0.07	0.621	0.802
	LTE Band 66B_Ant 1	15M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan On	DSI 2	132322+132229	1745	24.08	24.70	1.153	0.03	0.619	0.714
	LTE Band 66C_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan On	DSI 2	132322+132124	1745	24.09	24.70	1.151	0.07	0.621	0.715
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132572	1770	24.62	25.20	1.143	0.05	0.162	0.185
	LTE Band 66_Ant 5	20M	QPSK	50	50	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132572	1770	23.32	24.20	1.225	0	0.143	0.175
	LTE Band 66_Ant 5	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132572	1770	24.62	25.20	1.143	0.07	0.112	0.128
	LTE Band 66_Ant 5	20M	QPSK	50	50	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132572	1770	23.32	24.20	1.225	0.15	0.096	0.118
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132572	1770	24.62	25.20	1.143	-0.11	0.257	0.294
	LTE Band 66_Ant 5	20M	QPSK	50	50	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132572	1770	23.32	24.20	1.225	-0.05	0.228	0.279
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132572	1770	24.62	25.20	1.143	-0.08	0.115	0.131
	LTE Band 66_Ant 5	20M	QPSK	50	50	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	132572	1770	23.32	24.20	1.225	-0.08	0.096	0.118
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	132572	1770	24.62	25.20	1.143	-0.13	0.203	0.232
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	132572	1770	24.62	25.20	1.143	0.01	0.223	0.255
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	132572	1770	24.62	25.20	1.143	-0.11	0.223	0.255
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	132572	1770	24.62	25.20	1.143	0.03	0.242	0.277
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	132572	1770	24.62	25.20	1.143	-0.05	0.245	0.280
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	132572	1770	24.62	25.20	1.143	0.14	0.221	0.253
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	133297	680.5	23.65	25.20	1.429	-0.12	0.133	0.190
	LTE Band 71_Ant 1	20M	QPSK	50	50	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	133297	680.5	22.69	24.20	1.416	0.07	0.111	0.157
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	133297	680.5	23.65	25.20	1.429	0.09	0.101	0.144
	LTE Band 71_Ant 1	20M	QPSK	50	50	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	133297	680.5	22.69	24.20	1.416	0.04	0.090	0.127
14	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	133297	680.5	23.65	25.20	1.429	-0.08	0.153	0.219
	LTE Band 71_Ant 1	20M	QPSK	50	50	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	133297	680.5	22.69	24.20	1.416	0.11	0.126	0.178
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	133297	680.5	23.65	25.20	1.429	-0.13	0.086	0.123
	LTE Band 71_Ant 1	20M	QPSK	50	50	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	133297	680.5	22.69	24.20	1.416	0.12	0.069	0.098
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	133297	680.5	23.65	25.20	1.429	-0.11	0.129	0.184
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	133297	680.5	23.65	25.20	1.429	0.17	0.131	0.187
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	133297	680.5	23.65	25.20	1.429	-0.16	0.112	0.160
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	133297	680.5	23.65	25.20	1.429	-0.17	0.107	0.153
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	133297	680.5	23.65	25.20	1.429	0.11	0.109	0.156
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	133297	680.5	23.65	25.20	1.429	-0.05	0.115	0.164



FCC SAR TEST REPORT

Report No. : FA41111B

<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	507000	2535	24.19	25.20	1.262	-0.14	0.029	0.037
	FR1 n7_Ant 5	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	507000	2535	24.01	25.20	1.315	-0.15	0.027	0.036
	FR1 n7_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	507000	2535	24.19	25.20	1.262	-0.12	0.014	0.018
	FR1 n7_Ant 5	40M	BPSK	108	54	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	507000	2535	24.01	25.20	1.315	-0.17	0.014	0.018
15	FR1 n7_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	507000	2535	24.19	25.20	1.262	0.03	0.053	0.067
	FR1 n7_Ant 5	40M	BPSK	108	54	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	507000	2535	24.01	25.20	1.315	0.08	0.040	0.053
	FR1 n7_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	507000	2535	24.19	25.20	1.262	0.01	0.011	0.014
	FR1 n7_Ant 5	40M	BPSK	108	54	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	507000	2535	24.01	25.20	1.315	0.02	0.010	0.013
	FR1 n7_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	507000	2535	24.19	25.20	1.262	-0.11	0.048	0.061
	FR1 n7_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	507000	2535	24.19	25.20	1.262	-0.01	0.042	0.053
	FR1 n7_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	507000	2535	24.19	25.20	1.262	0.09	0.045	0.057
	FR1 n7_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	507000	2535	24.19	25.20	1.262	0.1	0.041	0.052
	FR1 n7_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	507000	2535	24.19	25.20	1.262	-0.04	0.036	0.045
	FR1 n7_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	507000	2535	24.19	25.20	1.262	0.15	0.047	0.059
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	141500	707.5	24.76	25.20	1.107	-0.16	0.198	0.219
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	141500	707.5	24.52	25.20	1.169	0.05	0.195	0.228
	FR1 n12_Ant 1	15M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	141500	707.5	24.76	25.20	1.107	0.08	0.128	0.142
	FR1 n12_Ant 1	15M	BPSK	36	22	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	141500	707.5	24.52	25.20	1.169	-0.18	0.121	0.141
16	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	141500	707.5	24.76	25.20	1.107	0.04	0.239	0.264
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	141500	707.5	24.52	25.20	1.169	-0.03	0.225	0.263
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	141500	707.5	24.76	25.20	1.107	-0.04	0.152	0.168
	FR1 n12_Ant 1	15M	BPSK	36	22	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	141500	707.5	24.52	25.20	1.169	-0.09	0.149	0.174
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	141500	707.5	24.76	25.20	1.107	0.18	0.231	0.256
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	141500	707.5	24.76	25.20	1.107	0.11	0.234	0.259
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	141500	707.5	24.76	25.20	1.107	0.07	0.193	0.214
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	141500	707.5	24.76	25.20	1.107	-0.03	0.228	0.252
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	141500	707.5	24.76	25.20	1.107	0.09	0.182	0.201
	FR1 n12_Ant 1	15M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	141500	707.5	24.76	25.20	1.107	-0.08	0.201	0.222
	FR1 n13_Ant 1	10M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	156400	782	24.66	25.20	1.132	-0.03	0.243	0.275
	FR1 n13_Ant 1	10M	BPSK	25	14	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	156400	782	24.50	25.20	1.175	0.17	0.240	0.282
	FR1 n13_Ant 1	10M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	156400	782	24.66	25.20	1.132	-0.14	0.148	0.168
	FR1 n13_Ant 1	10M	BPSK	25	14	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	156400	782	24.50	25.20	1.175	0.06	0.146	0.172
17	FR1 n13_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	156400	782	24.66	25.20	1.132	-0.02	0.296	0.335
	FR1 n13_Ant 1	10M	BPSK	25	14	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	156400	782	24.50	25.20	1.175	-0.06	0.282	0.331
	FR1 n13_Ant 1	10M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	156400	782	24.66	25.20	1.132	-0.15	0.197	0.223
	FR1 n13_Ant 1	10M	BPSK	25	14	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	156400	782	24.50	25.20	1.175	-0.12	0.192	0.226
	FR1 n13_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	156400	782	24.66	25.20	1.132	-0.16	0.285	0.323
	FR1 n13_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	156400	782	24.66	25.20	1.132	-0.03	0.274	0.310
	FR1 n13_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	156400	782	24.66	25.20	1.132	0.17	0.275	0.311
	FR1 n13_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	156400	782	24.66	25.20	1.132	0.02	0.232	0.263
	FR1 n13_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	156400	782	24.66	25.20	1.132	0	0.272	0.308
	FR1 n13_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	156400	782	24.66	25.20	1.132	0.18	0.249	0.282
	FR1 n14_Ant 1	10M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	158600	793	24.16	25.20	1.271	-0.05	0.224	0.285
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	158600	793	24.09	25.20	1.291	-0.04	0.208	0.269
	FR1 n14_Ant 1	10M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	158600	793	24.16	25.20	1.271	-0.08	0.140	0.178
	FR1 n14_Ant 1	10M	BPSK	25	14	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	158600	793	24.09	25.20	1.291	0	0.131	0.169
18	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	158600	793	24.16	25.20	1.271	-0.11	0.268	0.341
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	158600	793	24.09	25.20	1.291	-0.14	0.247	0.319
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	158600	793	24.16	25.20	1.271	0.01	0.183	0.233
	FR1 n14_Ant 1	10M	BPSK	25	14	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	158600	793	24.09	25.20	1.291	0.18	0.172	0.222
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	158600	793	24.16	25.20	1.271	0.02	0.246	0.313
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	158600	793	24.16	25.20	1.271	0.16	0.254	0.323
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	158600	793	24.16	25.20	1.271	0.06	0.161	0.205
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	158600	793	24.16	25.20	1.271	-0.02	0.179	0.227
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	158600	793	24.16	25.20	1.271	0.07	0.266	0.338
	FR1 n14_Ant 1	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	158600	793	24.16	25.20	1.271	-0.17	0.249	0.316
	FR1 n25_Ant 1	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.90	25.20	1.072	0.08	0.630	0.675
19	FR1 n25_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.67	25.20	1.130	-0.07	0.602	0.680

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	FR1 n25_Ant 1	40M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.90	25.20	1.072	0	0.306	0.328
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.67	25.20	1.130	-0.13	0.300	0.339
	FR1 n25_Ant 1	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.90	25.20	1.072	-0.1	0.343	0.368
	FR1 n25_Ant 1	40M	BPSK	108	54	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.67	25.20	1.130	-0.07	0.327	0.369
	FR1 n25_Ant 1	40M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.90	25.20	1.072	0.11	0.233	0.250
	FR1 n25_Ant 1	40M	BPSK	108	54	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.67	25.20	1.130	-0.17	0.237	0.268
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.67	25.20	1.130	0.01	0.563	0.636
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.67	25.20	1.130	0.1	0.594	0.671
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	376500	1882.5	24.67	25.20	1.130	0.11	0.581	0.656
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	376500	1882.5	24.67	25.20	1.130	-0.07	0.591	0.668
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	376500	1882.5	24.67	25.20	1.130	0.18	0.587	0.663
	FR1 n25_Ant 1	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	376500	1882.5	24.67	25.20	1.130	0.12	0.557	0.629
	FR1 n25_Ant 5	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.33	25.20	1.222	0.15	0.085	0.104
	FR1 n25_Ant 5	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.12	25.20	1.282	0.14	0.087	0.112
	FR1 n25_Ant 5	40M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.33	25.20	1.222	-0.03	0.001	0.001
	FR1 n25_Ant 5	40M	BPSK	108	54	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.12	25.20	1.282	-0.14	0.001	0.001
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.33	25.20	1.222	-0.01	0.156	0.191
	FR1 n25_Ant 5	40M	BPSK	108	54	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.12	25.20	1.282	0.17	0.145	0.186
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.33	25.20	1.222	0.11	0.001	0.001
	FR1 n25_Ant 5	40M	BPSK	108	54	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.12	25.20	1.282	0.07	0.001	0.001
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.33	25.20	1.222	-0.04	0.153	0.187
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	376500	1882.5	24.33	25.20	1.222	-0.18	0.155	0.189
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	376500	1882.5	24.33	25.20	1.222	-0.13	0.145	0.177
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	376500	1882.5	24.33	25.20	1.222	-0.13	0.142	0.173
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	376500	1882.5	24.33	25.20	1.222	0	0.131	0.160
	FR1 n25_Ant 5	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	376500	1882.5	24.33	25.20	1.222	-0.04	0.131	0.160
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	166300	831.5	24.81	25.20	1.094	-0.09	0.294	0.322
	FR1 n26_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	166300	831.5	24.70	25.20	1.122	0.05	0.300	0.337
	FR1 n26_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	166300	831.5	24.81	25.20	1.094	0.13	0.190	0.208
	FR1 n26_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	166300	831.5	24.70	25.20	1.122	0	0.208	0.233
20	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	166300	831.5	24.81	25.20	1.094	-0.03	0.361	0.395
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	166300	831.5	24.70	25.20	1.122	-0.12	0.349	0.392
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	166300	831.5	24.81	25.20	1.094	0.15	0.208	0.228
	FR1 n26_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	166300	831.5	24.70	25.20	1.122	-0.05	0.221	0.248
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	166300	831.5	24.81	25.20	1.094	-0.07	0.345	0.377
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	166300	831.5	24.81	25.20	1.094	0.1	0.358	0.392
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	166300	831.5	24.81	25.20	1.094	-0.11	0.340	0.372
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	166300	831.5	24.81	25.20	1.094	-0.02	0.356	0.389
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	166300	831.5	24.81	25.20	1.094	-0.1	0.346	0.379
	FR1 n26_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	166300	831.5	24.81	25.20	1.094	0.14	0.360	0.394
	FR1 n30_Ant 5	10M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	462000	2310	24.67	25.20	1.130	-0.05	0.241	0.272
	FR1 n30_Ant 5	10M	BPSK	25	14	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	462000	2310	24.49	25.20	1.178	-0.04	0.227	0.267
	FR1 n30_Ant 5	10M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	462000	2310	24.67	25.20	1.130	0.14	0.123	0.139
	FR1 n30_Ant 5	10M	BPSK	25	14	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	462000	2310	24.49	25.20	1.178	0.03	0.119	0.140
21	FR1 n30_Ant 5	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	462000	2310	24.67	25.20	1.130	-0.01	0.441	0.498
	FR1 n30_Ant 5	10M	BPSK	25	14	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	462000	2310	24.49	25.20	1.178	0.16	0.419	0.493
	FR1 n30_Ant 5	10M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	462000	2310	24.67	25.20	1.130	0.01	0.090	0.102
	FR1 n30_Ant 5	10M	BPSK	25	14	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	462000	2310	24.49	25.20	1.178	-0.06	0.084	0.099
	FR1 n30_Ant 5	10M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	462000	2310	24.67	25.20	1.130	0.14	0.399	0.451
	FR1 n30_Ant 5	10M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	462000	2310	24.67	25.20	1.130	-0.09	0.393	0.444
	FR1 n30_Ant 5	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	462000	2310	24.67	25.20	1.130	-0.09	0.434	0.490
	FR1 n30_Ant 5	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	462000	2310	24.67	25.20	1.130	-0.12	0.432	0.488
	FR1 n30_Ant 5	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	462000	2310	24.67	25.20	1.130	-0.06	0.408	0.461
	FR1 n30_Ant 5	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	462000	2310	24.67	25.20	1.130	-0.19	0.418	0.472
	FR1 n41_Ant 5	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	24.63	25.20	1.140	0.13	0.030	0.034
	FR1 n41_Ant 5	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	23.61	25.20	1.442	-0.08	0.028	0.040
	FR1 n41_Ant 5	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	24.63	25.20	1.140	0.08	0.015	0.017
	FR1 n41_Ant 5	100M	BPSK	135	69	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	23.61	25.20	1.442	-0.04	0.015	0.022
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	24.63	25.20	1.140	-0.03	0.055	0.063
	FR1 n41_Ant 5	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	23.61	25.20	1.442	0.12	0.041	0.059
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	24.63	25.20	1.140	0.09	0.011	0.013
	FR1 n41_Ant 5	100M	BPSK	135	69	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	23.61	25.20	1.442	-0.02	0.010	0.014



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	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	518598	2592.99	24.63	25.20	1.140	-0.16	0.050	0.057
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	518598	2592.99	24.63	25.20	1.140	-0.03	0.049	0.056
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	518598	2592.99	24.63	25.20	1.140	-0.06	0.054	0.062
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	518598	2592.99	24.63	25.20	1.140	0.08	0.054	0.062
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	518598	2592.99	24.63	25.20	1.140	-0.07	0.051	0.058
	FR1 n41_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	518598	2592.99	24.63	25.20	1.140	0.11	0.052	0.059
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	25.58	27.00	1.387	-0.01	0.037	0.051
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.55	22.00	1.109	-0.02	0.335	0.372
	FR1 n41_Ant 2	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.43	22.00	1.140	0.04	0.130	0.148
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.55	22.00	1.109	0.17	0.271	0.301
	FR1 n41_Ant 2	100M	BPSK	135	69	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.43	22.00	1.140	-0.1	0.103	0.117
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.55	22.00	1.109	0.17	0.173	0.192
	FR1 n41_Ant 2	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.43	22.00	1.140	-0.15	0.053	0.060
	FR1 n41_Ant 2	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.55	22.00	1.109	0.18	0.142	0.158
	FR1 n41_Ant 2	100M	BPSK	135	69	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.43	22.00	1.140	0.05	0.055	0.063
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.55	22.00	1.109	0.04	0.331	0.367
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.55	22.00	1.109	0.15	0.301	0.334
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	518598	2592.99	21.55	22.00	1.109	0.03	0.288	0.319
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	518598	2592.99	21.55	22.00	1.109	-0.1	0.323	0.358
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	518598	2592.99	21.55	22.00	1.109	0.14	0.316	0.350
	FR1 n41_Ant 2	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	518598	2592.99	21.55	22.00	1.109	-0.16	0.314	0.348
	FR1 n41_Ant 3	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	0.08	0.583	0.707
	FR1 n41_Ant 3	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	20.09	22.00	1.552	0.01	0.301	0.467
	FR1 n41_Ant 3	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	0.03	0.161	0.195
	FR1 n41_Ant 3	100M	BPSK	135	69	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	20.09	22.00	1.552	-0.08	0.070	0.109
22	FR1 n41_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	0.12	0.987	1.198
	FR1 n41_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	20.09	22.00	1.552	-0.08	0.508	0.789
	FR1 n41_Ant 3	100M	BPSK	270	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	19.60	21.50	1.549	0.02	0.481	0.745
	FR1 n41_Ant 3	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	0.1	0.116	0.141
	FR1 n41_Ant 3	100M	BPSK	135	69	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	20.09	22.00	1.552	-0.18	0.066	0.102
	FR1 n41_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	0.1	0.754	0.915
	FR1 n41_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	0.12	0.946	1.148
	FR1 n41_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	0.08	0.984	1.194
	FR1 n41_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	-0.17	0.984	1.194
	FR1 n41_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	-0.03	0.967	1.173
	FR1 n41_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	0.14	0.973	1.181
	FR1 n41_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan On	DSI 2	518598	2592.99	19.81	20.20	1.094	0.09	0.600	0.656
	FR1 n41_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.87	22.00	1.030	-0.06	0.366	0.377
	FR1 n41_Ant 4	100M	BPSK	135	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.85	22.00	1.035	-0.05	0.293	0.303
	FR1 n41_Ant 4	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.87	22.00	1.030	0.18	0.102	0.105
	FR1 n41_Ant 4	100M	BPSK	135	0	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.85	22.00	1.035	0.14	0.001	0.001
	FR1 n41_Ant 4	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.87	22.00	1.030	-0.17	0.183	0.189
	FR1 n41_Ant 4	100M	BPSK	135	0	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.85	22.00	1.035	0.17	0.153	0.158
	FR1 n41_Ant 4	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.87	22.00	1.030	-0.05	0.045	0.046
	FR1 n41_Ant 4	100M	BPSK	135	0	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.85	22.00	1.035	0.01	0.001	0.001
	FR1 n41_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.87	22.00	1.030	0.1	0.315	0.325
	FR1 n41_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	518598	2592.99	21.87	22.00	1.030	-0.17	0.250	0.258
	FR1 n41_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	518598	2592.99	21.87	22.00	1.030	0.04	0.358	0.369
	FR1 n41_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	518598	2592.99	21.87	22.00	1.030	-0.01	0.360	0.371
	FR1 n41_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	518598	2592.99	21.87	22.00	1.030	-0.08	0.354	0.365
	FR1 n41_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	518598	2592.99	21.87	22.00	1.030	0.05	0.361	0.372
	FR1 n48_Ant 8	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.66	24.00	1.081	-0.12	0.404	0.437
	FR1 n48_Ant 8	40M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.39	24.00	1.151	-0.09	0.367	0.422
	FR1 n48_Ant 8	40M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.66	24.00	1.081	-0.08	0.048	0.052
	FR1 n48_Ant 8	40M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.39	24.00	1.151	0.13	0.048	0.055
	FR1 n48_Ant 8	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.66	24.00	1.081	0.12	0.133	0.144
	FR1 n48_Ant 8	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.39	24.00	1.151	0.03	0.145	0.167
	FR1 n48_Ant 8	40M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.66	24.00	1.081	0.18	0.064	0.069
	FR1 n48_Ant 8	40M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.39	24.00	1.151	0.16	0.072	0.083
	FR1 n48_Ant 8	40M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.66	24.00	1.081	-0.1	0.381	0.412
	FR1 n48_Ant 8	40M	BPSK	1	1	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.66	24.00	1.081	0.07	0.353	0.382
	FR1 n48_Ant 8	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	641666	3624.99	23.66	24.00	1.081	0.18	0.400	0.433



FCC SAR TEST REPORT

Report No. : FA41111B

Test ID	Antenna	Freq	Mod	Power	Dist	Angle	Height	Sample	Battery	Wlan	DSI	SR	Power	Gain	Gain	Gain	Gain	Gain	Gain	
FR1 n48_Ant 8	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	641666	3624.99	23.66	24.00	1.081	-0.1	0.399	0.431		
FR1 n48_Ant 8	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	641666	3624.99	23.66	24.00	1.081	0.01	0.384	0.415		
FR1 n48_Ant 8	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	641666	3624.99	23.66	24.00	1.081	-0.15	0.398	0.430		
23	FR1 n48_Ant 9	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.42	24.00	1.143	-0.13	0.624	0.713	
	FR1 n48_Ant 9	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	638000	3570	23.11	24.00	1.227	0.01	0.579	0.711	
	FR1 n48_Ant 9	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	645332	3679.98	23.24	24.00	1.191	0.06	0.589	0.702	
	FR1 n48_Ant 9	40M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.07	24.00	1.239	-0.18	0.452	0.560	
	FR1 n48_Ant 9	40M	BPSK	100	0	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	22.54	23.50	1.247	0.09	0.503	0.627	
	FR1 n48_Ant 9	40M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.42	24.00	1.143	0.03	0.076	0.087	
	FR1 n48_Ant 9	40M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.07	24.00	1.239	-0.15	0.068	0.084	
	FR1 n48_Ant 9	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.42	24.00	1.143	-0.15	0.185	0.211	
	FR1 n48_Ant 9	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.07	24.00	1.239	0.11	0.211	0.261	
	FR1 n48_Ant 9	40M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.42	24.00	1.143	-0.08	0.066	0.075	
	FR1 n48_Ant 9	40M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.07	24.00	1.239	-0.17	0.058	0.072	
	FR1 n48_Ant 9	40M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.42	24.00	1.143	0.07	0.557	0.637	
	FR1 n48_Ant 9	40M	BPSK	1	1	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	641666	3624.99	23.42	24.00	1.143	-0.08	0.601	0.687	
	FR1 n48_Ant 9	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	641666	3624.99	23.42	24.00	1.143	-0.04	0.612	0.699	
	FR1 n48_Ant 9	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	641666	3624.99	23.42	24.00	1.143	-0.08	0.572	0.654	
	FR1 n48_Ant 9	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	641666	3624.99	23.42	24.00	1.143	0.17	0.609	0.696	
	FR1 n48_Ant 9	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	641666	3624.99	23.42	24.00	1.143	0.18	0.623	0.712	
24	FR1 n66_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	24.10	25.20	1.288	0.08	0.573	0.738	
	FR1 n66_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	23.99	25.20	1.321	-0.13	0.541	0.715	
	FR1 n66_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	24.10	25.20	1.288	0.08	0.194	0.250	
	FR1 n66_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	23.99	25.20	1.321	-0.07	0.189	0.250	
	FR1 n66_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	24.10	25.20	1.288	0.05	0.326	0.420	
	FR1 n66_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	23.99	25.20	1.321	-0.11	0.322	0.425	
	FR1 n66_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	24.10	25.20	1.288	-0.12	0.162	0.209	
	FR1 n66_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	23.99	25.20	1.321	0.03	0.153	0.202	
	FR1 n66_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	349000	1745	24.10	25.20	1.288	-0.16	0.432	0.557	
	FR1 n66_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	349000	1745	24.10	25.20	1.288	-0.02	0.448	0.577	
	FR1 n66_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	349000	1745	24.10	25.20	1.288	0.15	0.434	0.559	
	FR1 n66_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	349000	1745	24.10	25.20	1.288	-0.09	0.444	0.572	
	FR1 n66_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	349000	1745	24.10	25.20	1.288	0.11	0.454	0.585	
	FR1 n66_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	349000	1745	24.10	25.20	1.288	-0.05	0.463	0.596	
	FR1 n66_Ant 5	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	24.19	25.20	1.262	-0.08	0.180	0.227	
	FR1 n66_Ant 5	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	23.84	25.20	1.368	0.16	0.180	0.246	
	FR1 n66_Ant 5	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	24.19	25.20	1.262	0.05	0.139	0.175	
	FR1 n66_Ant 5	20M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	23.84	25.20	1.368	0.05	0.128	0.175	
	FR1 n66_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	24.19	25.20	1.262	-0.15	0.289	0.365	
	FR1 n66_Ant 5	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	23.84	25.20	1.368	-0.03	0.253	0.346	
	FR1 n66_Ant 5	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	24.19	25.20	1.262	-0.15	0.130	0.164	
	FR1 n66_Ant 5	20M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	349000	1745	23.84	25.20	1.368	0.02	0.133	0.182	
	FR1 n66_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	349000	1745	24.19	25.20	1.262	0.07	0.251	0.317	
	FR1 n66_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	349000	1745	24.19	25.20	1.262	0.16	0.233	0.294	
	FR1 n66_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	349000	1745	24.19	25.20	1.262	0.13	0.279	0.352	
	FR1 n66_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	349000	1745	24.19	25.20	1.262	-0.18	0.274	0.346	
	FR1 n66_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	349000	1745	24.19	25.20	1.262	0.02	0.277	0.350	
	FR1 n66_Ant 5	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	349000	1745	24.19	25.20	1.262	0.16	0.283	0.357	
	FR1 n71_Ant 1	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	136100	680.5	24.75	25.20	1.109	0.07	0.152	0.169	
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	136100	680.5	24.58	25.20	1.153	0	0.161	0.186	
	FR1 n71_Ant 1	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	136100	680.5	24.75	25.20	1.109	0.01	0.102	0.113	
	FR1 n71_Ant 1	20M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	136100	680.5	24.58	25.20	1.153	-0.01	0.100	0.115	
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	136100	680.5	24.75	25.20	1.109	-0.06	0.191	0.212	
25	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	136100	680.5	24.58	25.20	1.153	0.03	0.200	0.231	
	FR1 n71_Ant 1	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	136100	680.5	24.75	25.20	1.109	-0.04	0.110	0.122	
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	136100	680.5	24.58	25.20	1.153	-0.09	0.115	0.133	
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	136100	680.5	24.58	25.20	1.153	-0.17	0.178	0.205	
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	136100	680.5	24.58	25.20	1.153	-0.1	0.181	0.209	
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	136100	680.5	24.58	25.20	1.153	0.18	0.199	0.230	
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	136100	680.5	24.58	25.20	1.153	-0.17	0.186	0.215	
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	136100	680.5	24.58	25.20	1.153	-0.04	0.181	0.209	
	FR1 n71_Ant 1	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	136100	680.5	24.58	25.20	1.153	-0.05	0.178	0.205	



FCC SAR TEST REPORT

Report No. : FA41111B

Table with columns for antenna ID, power, modulation, frequency, location, distance, sample, battery, WLAN status, DSI, and SAR values. Includes rows for FR1 n77_Ant 8 and FR1 n77_HPUE_Ant 8.



FCC SAR TEST REPORT

Report No. : FA41111B

Table with columns: Antenna ID, Power, Modulation, Frequency, Duty Cycle, Location, Distance, Sample, Battery, Wlan, DSI, Power Density, SAR, etc.



FCC SAR TEST REPORT

Report No. : FA41111B

FR1 n77_Ant 4	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	21.01	22.00	1.256	-0.15	0.070	0.088
FR1 n77_Ant 4	100M	BPSK	135	138	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.89	22.00	1.291	-0.09	0.081	0.105
FR1 n77_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	641666	3624.99	21.01	22.00	1.256	0.05	0.185	0.232
FR1 n77_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	641666	3624.99	21.01	22.00	1.256	0.13	0.224	0.281
FR1 n77_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	641666	3624.99	21.01	22.00	1.256	0	0.292	0.367
FR1 n77_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	641666	3624.99	21.01	22.00	1.256	-0.12	0.290	0.364
FR1 n77_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	641666	3624.99	21.01	22.00	1.256	0.15	0.260	0.327
FR1 n77_Ant 4	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	641666	3624.99	21.01	22.00	1.256	-0.05	0.277	0.348
FR1 n77_Ant 3	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	656000	3840	21.08	22.00	1.236	0.03	0.199	0.246
FR1 n77_Ant 3	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	656000	3840	20.92	22.00	1.282	-0.13	0.210	0.269
FR1 n77_Ant 3	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	656000	3840	21.08	22.00	1.236	0.16	0.086	0.106
FR1 n77_Ant 3	100M	BPSK	135	69	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	656000	3840	20.92	22.00	1.282	-0.15	0.076	0.097
FR1 n77_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	656000	3840	21.08	22.00	1.236	-0.02	0.256	0.316
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	656000	3840	20.92	22.00	1.282	0.18	0.293	0.376
FR1 n77_Ant 3	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	656000	3840	21.08	22.00	1.236	-0.09	0.057	0.070
FR1 n77_Ant 3	100M	BPSK	135	69	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	656000	3840	20.92	22.00	1.282	0.14	0.073	0.094
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	656000	3840	20.92	22.00	1.282	0.1	0.282	0.362
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	656000	3840	20.92	22.00	1.282	-0.09	0.290	0.372
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	656000	3840	20.92	22.00	1.282	0.07	0.270	0.346
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	656000	3840	20.92	22.00	1.282	-0.09	0.286	0.367
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	656000	3840	20.92	22.00	1.282	-0.16	0.279	0.358
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	656000	3840	20.92	22.00	1.282	-0.18	0.267	0.342
FR1 n77_Ant 3	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	633332	3499.98	20.62	22.00	1.374	-0.12	0.289	0.397
FR1 n77_Ant 3	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	633332	3499.98	20.45	22.00	1.429	-0.03	0.233	0.333
FR1 n77_Ant 3	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	633332	3499.98	20.62	22.00	1.374	0.02	0.146	0.201
FR1 n77_Ant 3	100M	BPSK	135	69	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	633332	3499.98	20.45	22.00	1.429	0.12	0.152	0.217
FR1 n77_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	633332	3499.98	20.62	22.00	1.374	0.02	0.366	0.503
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	633332	3499.98	20.45	22.00	1.429	-0.05	0.395	0.564
FR1 n77_Ant 3	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	633332	3499.98	20.62	22.00	1.374	-0.03	0.070	0.096
FR1 n77_Ant 3	100M	BPSK	135	69	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	633332	3499.98	20.45	22.00	1.429	0	0.069	0.099
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	633332	3499.98	20.45	22.00	1.429	-0.1	0.309	0.442
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	633332	3499.98	20.45	22.00	1.429	0.05	0.382	0.546
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	633332	3499.98	20.45	22.00	1.429	0	0.388	0.554
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	633332	3499.98	20.45	22.00	1.429	0.07	0.385	0.550
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	633332	3499.98	20.45	22.00	1.429	0.15	0.383	0.547
FR1 n77_Ant 3	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	633332	3499.98	20.45	22.00	1.429	-0.05	0.391	0.559
FR1 n77_Ant 3	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.23	22.00	1.503	0.1	0.490	0.737
FR1 n77_Ant 3	100M	BPSK	135	138	Right Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.67	22.00	1.358	-0.11	0.454	0.617
FR1 n77_Ant 3	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.23	22.00	1.503	-0.02	0.237	0.356
FR1 n77_Ant 3	100M	BPSK	135	138	Right Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.67	22.00	1.358	-0.1	0.198	0.269
FR1 n77_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.23	22.00	1.503	-0.19	0.493	0.741
FR1 n77_Ant 3	100M	BPSK	135	138	Left Cheek	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.67	22.00	1.358	0.14	0.415	0.564
FR1 n77_Ant 3	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.23	22.00	1.503	0.04	0.123	0.185
FR1 n77_Ant 3	100M	BPSK	135	138	Left Tilted	0mm	Sample 1	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.67	22.00	1.358	-0.05	0.125	0.170
FR1 n77_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.23	22.00	1.503	-0.04	0.365	0.549
FR1 n77_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 5	Battery 1	Wlan Off	DSI 2	641666	3624.99	20.23	22.00	1.503	0.14	0.369	0.555
FR1 n77_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	Wlan Off	DSI 2	641666	3624.99	20.23	22.00	1.503	0.03	0.452	0.679
FR1 n77_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	Wlan Off	DSI 2	641666	3624.99	20.23	22.00	1.503	0.16	0.422	0.634
FR1 n77_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 4	Wlan Off	DSI 2	641666	3624.99	20.23	22.00	1.503	0.01	0.443	0.666
FR1 n77_Ant 3	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 5	Wlan Off	DSI 2	641666	3624.99	20.23	22.00	1.503	-0.06	0.455	0.684



<WLAN SAR>

Table with 19 columns: Plot No., Band, Mode, Test Position, Gap (mm), Antenna, Sample, Battery, Power Status, Non-DBS / DBS, 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 WLAN2.4GHz and WLAN5GHz configurations.



FCC SAR TEST REPORT

Report No. : FA411111B

	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6+7(7)	Sample 5	Battery 1	Power table 1	Non-DBS	110	5550	17.80	19.00	1.318	85.87	1.165	0.12	0.601	0.923
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6+7(7)	Sample 1	Battery 2	Power table 1	Non-DBS	110	5550	17.80	19.00	1.318	85.87	1.165	0.08	0.605	0.929
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6+7(7)	Sample 1	Battery 3	Power table 1	Non-DBS	110	5550	17.80	19.00	1.318	85.87	1.165	-0.17	0.592	0.909
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6+7(7)	Sample 1	Battery 4	Power table 1	Non-DBS	110	5550	17.80	19.00	1.318	85.87	1.165	-0.03	0.600	0.921
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6+7(7)	Sample 1	Battery 5	Power table 1	Non-DBS	110	5550	17.80	19.00	1.318	85.87	1.165	0.14	0.590	0.906
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 1	DBS	138	5690	16.20	16.50	1.072	86.15	1.161	-0.08	0.283	0.352
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 1	DBS	138	5690	16.20	16.50	1.072	86.15	1.161	-0.08	0.251	0.312
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 1	DBS	138	5690	16.20	16.50	1.072	86.15	1.161	-0.06	0.313	0.389
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 1	DBS	138	5690	16.20	16.50	1.072	86.15	1.161	0.1	0.241	0.300
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	155	5775	20.40	21.00	1.148	86.15	1.161	-0.03	0.426	0.568
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	155	5775	20.40	21.00	1.148	86.15	1.161	0.07	0.364	0.485
30	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	155	5775	20.40	21.00	1.148	86.15	1.161	-0.03	0.811	1.081
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	159	5795	20.40	21.00	1.148	85.87	1.165	-0.11	0.751	1.005
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	155	5775	20.40	21.00	1.148	86.15	1.161	0.01	0.456	0.608
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 3	Battery 1	Power table 1	Non-DBS	155	5775	20.40	21.00	1.148	86.15	1.161	-0.04	0.788	1.050
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 5	Battery 1	Power table 1	Non-DBS	155	5775	20.40	21.00	1.148	86.15	1.161	0.02	0.801	1.068
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 5	Battery 2	Power table 1	Non-DBS	155	5775	20.40	21.00	1.148	86.15	1.161	-0.09	0.763	1.017
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 5	Battery 3	Power table 1	Non-DBS	155	5775	20.40	21.00	1.148	86.15	1.161	-0.17	0.752	1.002
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 5	Battery 4	Power table 1	Non-DBS	155	5775	20.40	21.00	1.148	86.15	1.161	-0.1	0.771	1.028
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 5	Battery 5	Power table 1	Non-DBS	155	5775	20.40	21.00	1.148	86.15	1.161	0.18	0.784	1.045
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	DBS	155	5775	16.00	16.50	1.122	86.15	1.161	-0.18	0.141	0.184
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	DBS	155	5775	16.00	16.50	1.122	86.15	1.161	0.1	0.130	0.169
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	DBS	155	5775	16.00	16.50	1.122	86.15	1.161	-0.13	0.286	0.373
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	DBS	155	5775	16.00	16.50	1.122	86.15	1.161	0.12	0.153	0.199

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	Power Status	Non-DBS / DBS	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)	Reported APD (W/m^2)
	WLAN6GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	173	6815	17.50	18.50	1.259	86.00	1.163	-0.11	0.251	0.367	1.820	2.665
	WLAN6GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	173	6815	17.50	18.50	1.259	86.00	1.163	-0.16	0.139	0.204	0.960	1.406
31	WLAN6GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	173	6815	17.50	18.50	1.259	86.00	1.163	0.14	0.279	0.408	1.950	2.855
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	15	6025	15.60	17.00	1.380	85.76	1.166	0.08	0.236	0.380	1.350	2.173
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	47	6185	15.90	17.00	1.288	85.76	1.166	-0.03	0.263	0.395	1.490	2.238
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 1	Non-DBS	111	6505	12.10	12.50	1.096	85.76	1.166	0.01	0.090	0.115	0.590	0.754
	WLAN6GHz	802.11ax-HE160 MCS0	Left Cheek	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 1	Non-DBS	207	6985	12.30	13.00	1.175	85.76	1.166	-0.18	0.294	0.403	1.740	2.384
	WLAN6GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	173	6815	17.50	18.50	1.259	86.00	1.163	-0.15	0.150	0.220	0.800	1.171
	WLAN6GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6+7(6)	Sample 3	Battery 1	Power table 1	Non-DBS	173	6815	17.50	18.50	1.259	86.00	1.163	-0.19	0.243	0.356	1.750	2.562
	WLAN6GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6+7(6)	Sample 5	Battery 1	Power table 1	Non-DBS	173	6815	17.50	18.50	1.259	86.00	1.163	0.01	0.254	0.371	1.710	2.504
	WLAN6GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 2	Power table 1	Non-DBS	173	6815	17.50	18.50	1.259	86.00	1.163	0.06	0.250	0.367	1.640	2.401
	WLAN6GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 3	Power table 1	Non-DBS	173	6815	17.50	18.50	1.259	86.00	1.163	0.02	0.268	0.392	1.300	1.903
	WLAN6GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 4	Power table 1	Non-DBS	173	6815	17.50	18.50	1.259	86.00	1.163	0.12	0.255	0.374	1.690	2.474
	WLAN6GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 6+7(6)	Sample 1	Battery 5	Power table 1	Non-DBS	173	6815	17.50	18.50	1.259	86.00	1.163	-0.16	0.261	0.383	1.820	2.665

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	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 6	Sample 1	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	0.1	0.004	0.005
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 6	Sample 1	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	-0.17	0.001	0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Sample 1	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	-0.16	0.005	0.006
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 6	Sample 1	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	-0.04	0.001	0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Sample 3	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	-0.13	0.001	0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Sample 5	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	-0.01	0.001	0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Sample 1	Battery 2	0	2402	5.98	6.50	1.127	76.86	1.084	-0.09	0.001	0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Sample 1	Battery 3	0	2402	5.98	6.50	1.127	76.86	1.084	0.05	0.001	0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Sample 1	Battery 4	0	2402	5.98	6.50	1.127	76.86	1.084	0.02	0.001	0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Sample 1	Battery 5	0	2402	5.98	6.50	1.127	76.86	1.084	-0.13	0.001	0.001
32	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7	Sample 1	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	-0.14	0.008	0.009
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 7	Sample 1	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	0.17	0.001	0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 7	Sample 1	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	0	0.001	0.001
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 7	Sample 1	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	0.06	0.001	0.001
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7	Sample 3	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	-0.15	0.001	0.001
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7	Sample 5	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	0.11	0.001	0.001
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7	Sample 1	Battery 2	39	2441	6.45	6.50	1.012	76.80	1.085	-0.02	0.001	0.001
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7	Sample 1	Battery 3	39	2441	6.45	6.50	1.012	76.80	1.085	0.1	0.001	0.001
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7	Sample 1	Battery 4	39	2441	6.45	6.50	1.012	76.80	1.085	0.04	0.001	0.001
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 7	Sample 1	Battery 5	39	2441	6.45	6.50	1.012	76.80	1.085	0.13	0.001	0.001



13.2 Hotspot SAR

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Ant 1	RMC 12.2Kbps	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	0.08	0.308	0.382
33	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	-0.04	0.601	0.745
	WCDMA II_Ant 1	RMC 12.2Kbps	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	-0.17	0.103	0.128
	WCDMA II_Ant 1	RMC 12.2Kbps	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	-0.06	0.404	0.500
	WCDMA II_Ant 1	RMC 12.2Kbps	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	0.14	0.440	0.545
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	-0.08	0.565	0.700
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	0.1	0.566	0.701
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	-0.18	0.331	0.410
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	0.1	0.506	0.627
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	0.12	0.516	0.639
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	9538	1907.6	22.67	23.60	1.239	0.08	0.553	0.685
	WCDMA IV_Ant 1	RMC 12.2Kbps	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	0.08	0.327	0.330
34	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	0.02	0.790	0.797
	WCDMA IV_Ant 1	RMC 12.2Kbps	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	-0.08	0.087	0.088
	WCDMA IV_Ant 1	RMC 12.2Kbps	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	-0.08	0.477	0.481
	WCDMA IV_Ant 1	RMC 12.2Kbps	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	0.1	0.508	0.513
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	-0.18	0.736	0.743
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	0.1	0.718	0.725
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	0.12	0.552	0.557
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	0.08	0.724	0.731
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	-0.17	0.730	0.737
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	1513	1752.6	21.66	21.70	1.009	0.03	0.754	0.761
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	0.11	0.258	0.291
35	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	0.08	0.553	0.623
	WCDMA V_Ant 1	RMC 12.2Kbps	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	0.14	0.293	0.330
	WCDMA V_Ant 1	RMC 12.2Kbps	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	-0.17	0.172	0.194
	WCDMA V_Ant 1	RMC 12.2Kbps	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	0.17	0.198	0.223
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	-0.05	0.527	0.594
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	0.01	0.504	0.568
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	0.1	0.332	0.374
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	-0.17	0.492	0.555
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	0.04	0.504	0.568
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	4132	826.4	24.68	25.20	1.127	-0.01	0.507	0.571



FCC SAR TEST REPORT

Report No. : FA41111B

< LTE SAR >

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	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_Ant 5	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	20850	2510	23.61	23.90	1.069	0.17	0.061	0.065
	LTE Band 7_Ant 5	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	20850	2510	22.71	22.90	1.045	0.18	0.045	0.047
	LTE Band 7_Ant 5	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	20850	2510	23.61	23.90	1.069	-0.07	0.488	0.522
	LTE Band 7_Ant 5	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	20850	2510	22.71	22.90	1.045	-0.08	0.397	0.415
36	LTE Band 7_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	20850	2510	23.61	23.90	1.069	-0.13	0.674	0.721
	LTE Band 7_Ant 5	20M	QPSK	50	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	20850	2510	22.71	22.90	1.045	-0.11	0.595	0.622
	LTE Band 7_Ant 5	20M	QPSK	1	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	20850	2510	23.61	23.90	1.069	-0.16	0.001	0.001
	LTE Band 7_Ant 5	20M	QPSK	50	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	20850	2510	22.71	22.90	1.045	-0.02	0.001	0.001
	LTE Band 7_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	20850	2510	23.61	23.90	1.069	0.15	0.486	0.520
	LTE Band 7_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	20850	2510	23.61	23.90	1.069	-0.09	0.453	0.484
	LTE Band 7_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	20850	2510	23.61	23.90	1.069	0.11	0.632	0.676
	LTE Band 7_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	20850	2510	23.61	23.90	1.069	-0.05	0.614	0.656
	LTE Band 7_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	20850	2510	23.61	23.90	1.069	-0.08	0.642	0.686
	LTE Band 7_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	20850	2510	23.61	23.90	1.069	0.16	0.637	0.681
	LTE Band 7C_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	21100+20902	2535	23.38	23.90	1.127	0.05	0.635	0.716
	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	-0.08	0.167	0.226
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23095	707.5	22.91	24.20	1.346	0.05	0.141	0.190
37	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	-0.02	0.309	0.419
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23095	707.5	22.91	24.20	1.346	-0.09	0.252	0.339
	LTE Band 12_Ant 1	10M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	0.07	0.172	0.233
	LTE Band 12_Ant 1	10M	QPSK	25	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23095	707.5	22.91	24.20	1.346	-0.18	0.130	0.175
	LTE Band 12_Ant 1	10M	QPSK	1	0	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	0.03	0.100	0.136
	LTE Band 12_Ant 1	10M	QPSK	25	0	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23095	707.5	22.91	24.20	1.346	-0.15	0.111	0.149
	LTE Band 12_Ant 1	10M	QPSK	1	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	-0.15	0.146	0.198
	LTE Band 12_Ant 1	10M	QPSK	25	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23095	707.5	22.91	24.20	1.346	0.11	0.107	0.144
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	0.06	0.300	0.407
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	0.18	0.295	0.400
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	0.16	0.242	0.328
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	-0.1	0.283	0.384
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	0.07	0.280	0.379
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	23095	707.5	23.88	25.20	1.355	0.18	0.286	0.388
	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	0.05	0.168	0.233
	LTE Band 13_Ant 1	10M	QPSK	25	12	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23230	782	22.79	24.20	1.384	0.05	0.136	0.188
38	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	-0.15	0.356	0.494
	LTE Band 13_Ant 1	10M	QPSK	25	12	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23230	782	22.79	24.20	1.384	-0.03	0.272	0.376
	LTE Band 13_Ant 1	10M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	0	0.156	0.216
	LTE Band 13_Ant 1	10M	QPSK	25	12	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23230	782	22.79	24.20	1.384	0.01	0.120	0.166
	LTE Band 13_Ant 1	10M	QPSK	1	0	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	-0.01	0.087	0.121
	LTE Band 13_Ant 1	10M	QPSK	25	12	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23230	782	22.79	24.20	1.384	-0.06	0.073	0.101
	LTE Band 13_Ant 1	10M	QPSK	1	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	-0.04	0.186	0.258
	LTE Band 13_Ant 1	10M	QPSK	25	12	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23230	782	22.79	24.20	1.384	-0.09	0.146	0.202
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	0.13	0.316	0.438
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	-0.18	0.322	0.447
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	0.02	0.214	0.297
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	0.16	0.332	0.460
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	-0.03	0.334	0.463
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	23230	782	23.78	25.20	1.387	0.07	0.335	0.465
	LTE Band 14_Ant 1	10M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23330	793	23.80	25.20	1.380	-0.17	0.162	0.224
	LTE Band 14_Ant 1	10M	QPSK	25	12	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23330	793	22.78	24.20	1.387	-0.1	0.126	0.175
39	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23330	793	23.80	25.20	1.380	-0.1	0.346	0.478
	LTE Band 14_Ant 1	10M	QPSK	25	12	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23330	793	22.78	24.20	1.387	0.18	0.272	0.377
	LTE Band 14_Ant 1	10M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23330	793	23.80	25.20	1.380	0.17	0.165	0.228
	LTE Band 14_Ant 1	10M	QPSK	25	12	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	23330	793	22.78	24.20	1.387	0.06	0.144	0.200



FCC SAR TEST REPORT

Report No. : FA411111B

Table with columns for LTE Band, Antenna, Power, Modulation, and various SAR test parameters. Includes rows for bands 14, 25, and 26, with specific antenna configurations and exposure conditions.



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	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	26865	831.5	24.39	25.20	1.205	0.14	0.287	0.346
	LTE Band 5B_Ant 1	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	20600+20501	844	24.25	25.20	1.245	0.12	0.355	0.442
	LTE Band 30_Ant 5	10M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	27710	2310	23.85	24.40	1.135	0.02	0.231	0.262
	LTE Band 30_Ant 5	10M	QPSK	25	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	27710	2310	22.89	23.40	1.125	0.12	0.220	0.247
	LTE Band 30_Ant 5	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	27710	2310	23.85	24.40	1.135	-0.05	0.387	0.439
	LTE Band 30_Ant 5	10M	QPSK	25	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	27710	2310	22.89	23.40	1.125	-0.16	0.311	0.350
42	LTE Band 30_Ant 5	10M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	27710	2310	23.85	24.40	1.135	-0.14	0.691	0.784
	LTE Band 30_Ant 5	10M	QPSK	25	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	27710	2310	22.89	23.40	1.125	-0.12	0.580	0.652
	LTE Band 30_Ant 5	10M	QPSK	1	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	27710	2310	23.85	24.40	1.135	-0.05	0.194	0.220
	LTE Band 30_Ant 5	10M	QPSK	25	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	27710	2310	22.89	23.40	1.125	-0.13	0.164	0.184
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	27710	2310	23.85	24.40	1.135	0.08	0.541	0.614
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	27710	2310	23.85	24.40	1.135	0.16	0.536	0.608
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	27710	2310	23.85	24.40	1.135	0.01	0.649	0.737
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	27710	2310	23.85	24.40	1.135	-0.16	0.682	0.774
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	27710	2310	23.85	24.40	1.135	0.1	0.683	0.775
	LTE Band 30_Ant 5	10M	QPSK	1	0	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	27710	2310	23.85	24.40	1.135	-0.04	0.655	0.743



FCC SAR TEST REPORT

Report No. : FA41111B

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 5	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	41490	2680	23.39	23.40	1.002	62.9	1.006	-0.1	0.011	0.011
	LTE Band 41_Ant 5	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	41490	2680	22.52	23.40	1.225	62.9	1.006	0.18	0.008	0.010
	LTE Band 41_Ant 5	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	41490	2680	23.39	23.40	1.002	62.9	1.006	-0.17	0.094	0.095
	LTE Band 41_Ant 5	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	41490	2680	22.52	23.40	1.225	62.9	1.006	-0.04	0.075	0.092
43	LTE Band 41_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	41490	2680	23.39	23.40	1.002	62.9	1.006	-0.16	0.239	0.241
	LTE Band 41_Ant 5	20M	QPSK	50	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	41490	2680	22.52	23.40	1.225	62.9	1.006	0.04	0.129	0.159
	LTE Band 41_Ant 5	20M	QPSK	1	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	41490	2680	23.39	23.40	1.002	62.9	1.006	-0.11	0.001	0.001
	LTE Band 41_Ant 5	20M	QPSK	50	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	41490	2680	22.52	23.40	1.225	62.9	1.006	-0.16	0.001	0.001
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	41490	2680	23.39	23.40	1.002	62.9	1.006	-0.15	0.171	0.172
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	41490	2680	23.39	23.40	1.002	62.9	1.006	-0.06	0.200	0.202
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	41490	2680	23.39	23.40	1.002	62.9	1.006	-0.14	0.235	0.237
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	41490	2680	23.39	23.40	1.002	62.9	1.006	-0.19	0.217	0.219
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	41490	2680	23.39	23.40	1.002	62.9	1.006	0.01	0.230	0.232
	LTE Band 41_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	41490	2680	23.39	23.40	1.002	62.9	1.006	0.06	0.204	0.206
	LTE Band 41_HPUE_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	41490	2680	24.89	25.00	1.026	42.9	1.009	-0.14	0.209	0.216
	LTE Band 38C_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	38150+37952	2610	23.13	23.40	1.064	62.9	1.006	-0.08	0.208	0.223
	LTE Band 41C_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	41490+41292	2680	23.35	23.40	1.012	62.9	1.006	0.12	0.227	0.231
	LTE Band 48_Ant 8	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	22.46	24.00	1.426	62.9	1.006	-0.02	0.126	0.181
	LTE Band 48_Ant 8	20M	QPSK	50	50	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	21.51	23.00	1.409	62.9	1.006	0.15	0.107	0.152
	LTE Band 48_Ant 8	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	22.46	24.00	1.426	62.9	1.006	-0.09	0.176	0.252
	LTE Band 48_Ant 8	20M	QPSK	50	50	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	21.51	23.00	1.409	62.9	1.006	0.11	0.163	0.231
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	22.46	24.00	1.426	62.9	1.006	0.16	0.370	0.531
	LTE Band 48_Ant 8	20M	QPSK	50	50	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	21.51	23.00	1.409	62.9	1.006	-0.15	0.239	0.339
	LTE Band 48_Ant 8	20M	QPSK	1	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	22.46	24.00	1.426	62.9	1.006	0.02	0.087	0.125
	LTE Band 48_Ant 8	20M	QPSK	50	50	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	21.51	23.00	1.409	62.9	1.006	0.07	0.075	0.106
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	56640	3690	22.46	24.00	1.426	62.9	1.006	0.16	0.339	0.486
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	56640	3690	22.46	24.00	1.426	62.9	1.006	0.13	0.357	0.512
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	56640	3690	22.46	24.00	1.426	62.9	1.006	-0.19	0.538	0.772
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	55340	3560	22.26	24.00	1.493	62.9	1.006	0.05	0.329	0.494
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	55830	3609	22.39	24.00	1.449	62.9	1.006	0.05	0.381	0.555
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	56150	3641	22.39	24.00	1.449	62.9	1.006	-0.03	0.374	0.545
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	56640	3690	22.46	24.00	1.426	62.9	1.006	-0.18	0.481	0.690
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	56640	3690	22.46	24.00	1.426	62.9	1.006	0.02	0.509	0.730
	LTE Band 48_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	56640	3690	22.46	24.00	1.426	62.9	1.006	0.16	0.492	0.706
	LTE Band 48C_Ant 8	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	56640+56442	3690	22.45	24.00	1.429	62.9	1.006	0.06	0.508	0.730
	LTE Band 48_Ant 9	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	23.00	23.20	1.047	62.9	1.006	0.07	0.181	0.191
	LTE Band 48_Ant 9	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	21.84	22.20	1.086	62.9	1.006	-0.18	0.151	0.165
	LTE Band 48_Ant 9	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	23.00	23.20	1.047	62.9	1.006	0.03	0.349	0.368
	LTE Band 48_Ant 9	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	21.84	22.20	1.086	62.9	1.006	-0.15	0.291	0.318
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	23.00	23.20	1.047	62.9	1.006	-0.15	0.678	0.714
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	55340	3560	22.39	23.20	1.205	62.9	1.006	0.11	0.576	0.698
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	55830	3609	22.71	23.20	1.119	62.9	1.006	-0.08	0.701	0.789
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56150	3641	22.87	23.20	1.079	62.9	1.006	-0.17	0.666	0.723
	LTE Band 48_Ant 9	20M	QPSK	50	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	21.84	22.20	1.086	62.9	1.006	-0.08	0.584	0.638
	LTE Band 48_Ant 9	20M	QPSK	50	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	55340	3560	21.69	22.20	1.125	62.9	1.006	0.08	0.496	0.561
	LTE Band 48_Ant 9	20M	QPSK	50	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	55830	3609	21.74	22.20	1.112	62.9	1.006	0.01	0.604	0.676
	LTE Band 48_Ant 9	20M	QPSK	50	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56150	3641	21.70	22.20	1.122	62.9	1.006	0.03	0.574	0.648
	LTE Band 48_Ant 9	20M	QPSK	100	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	21.78	22.20	1.102	62.9	1.006	0.07	0.553	0.613
	LTE Band 48_Ant 9	20M	QPSK	1	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	23.00	23.20	1.047	62.9	1.006	0.17	0.065	0.068
	LTE Band 48_Ant 9	20M	QPSK	50	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	56640	3690	21.84	22.20	1.086	62.9	1.006	0.18	0.059	0.064
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	55830	3609	22.71	23.20	1.119	62.9	1.006	-0.04	0.530	0.597
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	55830	3609	22.71	23.20	1.119	62.9	1.006	-0.08	0.527	0.593
44	LTE Band 48_Ant 9	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	55830	3609	22.71	23.20	1.119	62.9	1.006	-0.06	0.707	0.796
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	55830	3609	22.71	23.20	1.119	62.9	1.006	-0.13	0.648	0.730
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	55830	3609	22.71	23.20	1.119	62.9	1.006	-0.13	0.648	0.730
	LTE Band 48_Ant 9	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	55830	3609	22.71	23.20	1.119	62.9	1.006	0.06	0.666	0.750



FCC SAR TEST REPORT

Report No. : FA41111B

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	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_Ant 1	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	-0.17	0.211	0.301
	LTE Band 66_Ant 1	20M	QPSK	50	50	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132322	1745	19.18	20.70	1.419	0.17	0.176	0.250
45	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	-0.06	0.542	0.774
	LTE Band 66_Ant 1	20M	QPSK	50	50	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132322	1745	19.18	20.70	1.419	0.1	0.380	0.539
	LTE Band 66_Ant 1	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	-0.17	0.042	0.060
	LTE Band 66_Ant 1	20M	QPSK	50	50	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132322	1745	19.18	20.70	1.419	0.04	0.030	0.043
	LTE Band 66_Ant 1	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	-0.01	0.302	0.432
	LTE Band 66_Ant 1	20M	QPSK	50	50	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132322	1745	19.18	20.70	1.419	-0.08	0.235	0.333
	LTE Band 66_Ant 1	20M	QPSK	1	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	0.05	0.322	0.460
	LTE Band 66_Ant 1	20M	QPSK	50	50	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132322	1745	19.18	20.70	1.419	0.06	0.257	0.365
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	-0.09	0.488	0.697
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	-0.08	0.446	0.637
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	0.13	0.358	0.512
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	0.12	0.446	0.637
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	0.03	0.493	0.704
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	132322	1745	20.15	21.70	1.429	0.18	0.523	0.747
	LTE Band 66B_Ant 1	15M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132597+132504	1772.5	20.11	21.70	1.442	0.08	0.529	0.763
	LTE Band 66C_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132572+132374	1770	20.13	21.70	1.435	-0.02	0.535	0.768
	LTE Band 66_Ant 5	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132572	1770	22.51	23.60	1.285	0.08	0.176	0.226
	LTE Band 66_Ant 5	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132572	1770	22.35	23.60	1.334	0.01	0.118	0.157
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132572	1770	22.51	23.60	1.285	0.03	0.276	0.355
	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132572	1770	22.35	23.60	1.334	-0.08	0.244	0.325
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132572	1770	22.51	23.60	1.285	-0.05	0.505	0.649
	LTE Band 66_Ant 5	20M	QPSK	50	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132572	1770	22.35	23.60	1.334	-0.18	0.451	0.601
	LTE Band 66_Ant 5	20M	QPSK	1	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132572	1770	22.51	23.60	1.285	0.08	0.159	0.204
	LTE Band 66_Ant 5	20M	QPSK	50	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	132572	1770	22.35	23.60	1.334	-0.17	0.131	0.175
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	132572	1770	22.51	23.60	1.285	-0.03	0.488	0.627
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	132572	1770	22.51	23.60	1.285	0.14	0.385	0.495
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	132572	1770	22.51	23.60	1.285	0.11	0.428	0.550
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	132572	1770	22.51	23.60	1.285	-0.05	0.486	0.625
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	132572	1770	22.51	23.60	1.285	0.18	0.458	0.589
	LTE Band 66_Ant 5	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	132572	1770	22.51	23.60	1.285	0.14	0.433	0.557
	LTE Band 71_Ant 1	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	0.1	0.146	0.209
	LTE Band 71_Ant 1	20M	QPSK	50	50	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	133297	680.5	22.69	24.20	1.416	-0.17	0.118	0.167
46	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	-0.01	0.299	0.427
	LTE Band 71_Ant 1	20M	QPSK	50	50	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	133297	680.5	22.69	24.20	1.416	-0.01	0.229	0.324
	LTE Band 71_Ant 1	20M	QPSK	1	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	-0.08	0.154	0.220
	LTE Band 71_Ant 1	20M	QPSK	50	50	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	133297	680.5	22.69	24.20	1.416	0.05	0.099	0.140
	LTE Band 71_Ant 1	20M	QPSK	1	0	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	0.06	0.122	0.174
	LTE Band 71_Ant 1	20M	QPSK	50	50	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	133297	680.5	22.69	24.20	1.416	-0.09	0.092	0.130
	LTE Band 71_Ant 1	20M	QPSK	1	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	-0.08	0.094	0.134
	LTE Band 71_Ant 1	20M	QPSK	50	50	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	133297	680.5	22.69	24.20	1.416	0.13	0.116	0.164
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	-0.01	0.295	0.422
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	0.12	0.294	0.420
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	0.03	0.252	0.360
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	0.18	0.282	0.403
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	0.16	0.281	0.402
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	133297	680.5	23.65	25.20	1.429	-0.1	0.290	0.414



FCC SAR TEST REPORT

Report No. : FA41111B

<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7_Ant 5	40M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	507000	2535	24.19	24.30	1.026	0.08	0.057	0.058
	FR1 n7_Ant 5	40M	BPSK	108	54	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	507000	2535	24.01	24.30	1.069	0.01	0.054	0.058
	FR1 n7_Ant 5	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	507000	2535	24.19	24.30	1.026	0.03	0.488	0.501
	FR1 n7_Ant 5	40M	BPSK	108	54	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	507000	2535	24.01	24.30	1.069	0.03	0.458	0.490
47	FR1 n7_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	507000	2535	24.19	24.30	1.026	0.16	0.763	0.783
	FR1 n7_Ant 5	40M	BPSK	108	54	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	507000	2535	24.01	24.30	1.069	-0.08	0.731	0.781
	FR1 n7_Ant 5	40M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	507000	2535	24.19	24.30	1.026	-0.18	0.001	0.001
	FR1 n7_Ant 5	40M	BPSK	108	54	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	507000	2535	24.01	24.30	1.069	0.1	0.001	0.001
	FR1 n7_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	507000	2535	24.19	24.30	1.026	0.12	0.539	0.553
	FR1 n7_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	507000	2535	24.19	24.30	1.026	0.08	0.482	0.494
	FR1 n7_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	507000	2535	24.19	24.30	1.026	-0.17	0.719	0.737
	FR1 n7_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	507000	2535	24.19	24.30	1.026	-0.03	0.687	0.705
	FR1 n7_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	507000	2535	24.19	24.30	1.026	0.14	0.741	0.760
	FR1 n7_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	507000	2535	24.19	24.30	1.026	0.11	0.699	0.717
	FR1 n12_Ant 1	15M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	0.08	0.221	0.245
	FR1 n12_Ant 1	15M	BPSK	36	22	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	141500	707.5	24.52	25.20	1.169	0.01	0.204	0.238
48	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	-0.03	0.383	0.424
	FR1 n12_Ant 1	15M	BPSK	36	22	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	141500	707.5	24.52	25.20	1.169	0.05	0.362	0.423
	FR1 n12_Ant 1	15M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	-0.11	0.287	0.318
	FR1 n12_Ant 1	15M	BPSK	36	22	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	141500	707.5	24.52	25.20	1.169	-0.12	0.303	0.354
	FR1 n12_Ant 1	15M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	0.03	0.197	0.218
	FR1 n12_Ant 1	15M	BPSK	36	22	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	141500	707.5	24.52	25.20	1.169	-0.16	0.203	0.237
	FR1 n12_Ant 1	15M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	-0.02	0.128	0.142
	FR1 n12_Ant 1	15M	BPSK	36	22	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	141500	707.5	24.52	25.20	1.169	0.15	0.134	0.157
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	-0.09	0.349	0.386
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	0.11	0.300	0.332
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	-0.05	0.305	0.338
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	-0.08	0.360	0.398
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	0.16	0.348	0.385
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	141500	707.5	24.76	25.20	1.107	0.05	0.367	0.406
	FR1 n13_Ant 1	10M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	-0.17	0.205	0.232
	FR1 n13_Ant 1	10M	BPSK	25	14	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	156400	782	24.50	25.20	1.175	-0.08	0.203	0.239
49	FR1 n13_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	-0.01	0.403	0.456
	FR1 n13_Ant 1	10M	BPSK	25	14	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	156400	782	24.50	25.20	1.175	-0.04	0.350	0.411
	FR1 n13_Ant 1	10M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	-0.08	0.250	0.283
	FR1 n13_Ant 1	10M	BPSK	25	14	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	156400	782	24.50	25.20	1.175	0.17	0.285	0.335
	FR1 n13_Ant 1	10M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	0.18	0.154	0.174
	FR1 n13_Ant 1	10M	BPSK	25	14	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	156400	782	24.50	25.20	1.175	-0.04	0.140	0.164
	FR1 n13_Ant 1	10M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	-0.08	0.215	0.243
	FR1 n13_Ant 1	10M	BPSK	25	14	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	156400	782	24.50	25.20	1.175	-0.13	0.198	0.233
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	-0.13	0.382	0.433
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	0.06	0.329	0.373
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	-0.03	0.262	0.297
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	-0.03	0.387	0.438
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	0.08	0.391	0.443
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	156400	782	24.66	25.20	1.132	-0.07	0.395	0.447
	FR1 n14_Ant 1	10M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	0.16	0.191	0.243
	FR1 n14_Ant 1	10M	BPSK	25	14	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	158600	793	24.09	25.20	1.291	-0.1	0.170	0.220
50	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	-0.02	0.417	0.530
	FR1 n14_Ant 1	10M	BPSK	25	14	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	158600	793	24.09	25.20	1.291	0.07	0.385	0.497
	FR1 n14_Ant 1	10M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	0.18	0.251	0.319
	FR1 n14_Ant 1	10M	BPSK	25	14	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	158600	793	24.09	25.20	1.291	-0.1	0.244	0.315
	FR1 n14_Ant 1	10M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	0.01	0.139	0.177
	FR1 n14_Ant 1	10M	BPSK	25	14	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	158600	793	24.09	25.20	1.291	-0.15	0.116	0.150
	FR1 n14_Ant 1	10M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	0.19	0.180	0.229
	FR1 n14_Ant 1	10M	BPSK	25	14	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	158600	793	24.09	25.20	1.291	0.07	0.160	0.207
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	-0.18	0.361	0.459
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	0.03	0.327	0.415
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	-0.15	0.268	0.341
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	-0.15	0.382	0.485



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	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	0.11	0.380	0.483
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	158600	793	24.16	25.20	1.271	-0.08	0.372	0.473
	FR1 n25_Ant 1	40M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	0.08	0.277	0.366
	FR1 n25_Ant 1	40M	BPSK	108	54	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.53	23.80	1.340	0.01	0.265	0.355
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	0.01	0.565	0.747
	FR1 n25_Ant 1	40M	BPSK	108	54	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.53	23.80	1.340	0.03	0.534	0.715
	FR1 n25_Ant 1	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	-0.08	0.099	0.131
	FR1 n25_Ant 1	40M	BPSK	108	54	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.53	23.80	1.340	0.1	0.079	0.106
	FR1 n25_Ant 1	40M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	-0.18	0.410	0.542
	FR1 n25_Ant 1	40M	BPSK	108	54	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.53	23.80	1.340	0.1	0.336	0.450
	FR1 n25_Ant 1	40M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	0.12	0.444	0.587
	FR1 n25_Ant 1	40M	BPSK	108	54	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.53	23.80	1.340	0.08	0.414	0.555
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	-0.03	0.505	0.667
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	0.14	0.409	0.540
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	0.11	0.313	0.414
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	-0.05	0.498	0.658
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	0.18	0.507	0.670
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	376500	1882.5	22.59	23.80	1.321	0.14	0.496	0.655
	FR1 n25_Ant 5	40M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	21.69	22.90	1.321	-0.17	0.207	0.274
	FR1 n25_Ant 5	40M	BPSK	108	54	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	21.56	22.90	1.361	0.17	0.195	0.265
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	21.69	22.90	1.321	-0.05	0.314	0.415
	FR1 n25_Ant 5	40M	BPSK	108	54	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	21.56	22.90	1.361	0.01	0.294	0.400
51	FR1 n25_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	21.69	22.90	1.321	0.05	0.597	0.789
	FR1 n25_Ant 5	40M	BPSK	108	54	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	21.56	22.90	1.361	-0.17	0.568	0.773
	FR1 n25_Ant 5	40M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	21.69	22.90	1.321	0.05	0.171	0.226
	FR1 n25_Ant 5	40M	BPSK	108	54	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	376500	1882.5	21.56	22.90	1.361	0.06	0.137	0.187
	FR1 n25_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	376500	1882.5	21.69	22.90	1.321	-0.09	0.558	0.737
	FR1 n25_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	376500	1882.5	21.69	22.90	1.321	-0.08	0.452	0.597
	FR1 n25_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	376500	1882.5	21.69	22.90	1.321	0.13	0.416	0.550
	FR1 n25_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	376500	1882.5	21.69	22.90	1.321	0.12	0.477	0.630
	FR1 n25_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	376500	1882.5	21.69	22.90	1.321	0.03	0.544	0.719
	FR1 n25_Ant 5	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	376500	1882.5	21.69	22.90	1.321	0.18	0.534	0.706
	FR1 n26_Ant 1	20M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	0.08	0.214	0.234
	FR1 n26_Ant 1	20M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	166300	831.5	24.70	25.20	1.122	0.01	0.200	0.224
52	FR1 n26_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	-0.1	0.413	0.452
	FR1 n26_Ant 1	20M	QPSK	50	28	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	166300	831.5	24.69	25.20	1.125	0.03	0.389	0.437
	FR1 n26_Ant 1	20M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	-0.08	0.223	0.244
	FR1 n26_Ant 1	20M	BPSK	50	28	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	166300	831.5	24.70	25.20	1.122	-0.08	0.170	0.191
	FR1 n26_Ant 1	20M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	0.1	0.151	0.165
	FR1 n26_Ant 1	20M	BPSK	50	28	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	166300	831.5	24.70	25.20	1.122	-0.18	0.135	0.151
	FR1 n26_Ant 1	20M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	0.1	0.259	0.283
	FR1 n26_Ant 1	20M	BPSK	50	28	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	166300	831.5	24.70	25.20	1.122	0.12	0.252	0.283
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	0.08	0.411	0.450
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	-0.17	0.325	0.356
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	-0.03	0.288	0.315
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	0.14	0.309	0.338
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	0.11	0.334	0.365
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	166300	831.5	24.81	25.20	1.094	-0.05	0.340	0.372
	FR1 n30_Ant 5	10M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	462000	2310	23.08	24.20	1.294	0.03	0.245	0.317
	FR1 n30_Ant 5	10M	BPSK	25	14	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	462000	2310	23.02	24.20	1.312	0.18	0.233	0.306
	FR1 n30_Ant 5	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	462000	2310	23.08	24.20	1.294	0.16	0.299	0.387
	FR1 n30_Ant 5	10M	BPSK	25	14	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	462000	2310	23.02	24.20	1.312	-0.1	0.283	0.371
53	FR1 n30_Ant 5	10M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	462000	2310	23.08	24.20	1.294	0.15	0.592	0.766
	FR1 n30_Ant 5	10M	BPSK	25	14	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	462000	2310	23.02	24.20	1.312	0.07	0.532	0.698
	FR1 n30_Ant 5	10M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	462000	2310	23.08	24.20	1.294	0.07	0.111	0.144
	FR1 n30_Ant 5	10M	BPSK	25	14	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	462000	2310	23.02	24.20	1.312	-0.18	0.088	0.115
	FR1 n30_Ant 5	10M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	462000	2310	23.08	24.20	1.294	0.03	0.330	0.427
	FR1 n30_Ant 5	10M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	462000	2310	23.08	24.20	1.294	-0.15	0.314	0.406
	FR1 n30_Ant 5	10M	BPSK	1	1	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	462000	2310	23.08	24.20	1.294	-0.15	0.400	0.518
	FR1 n30_Ant 5	10M	BPSK	1	1	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	462000	2310	23.08	24.20	1.294	0.11	0.500	0.647
	FR1 n30_Ant 5	10M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	462000	2310	23.08	24.20	1.294	-0.08	0.486	0.629
	FR1 n30_Ant 5	10M	BPSK	1	1	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	462000	2310	23.08	24.20	1.294	-0.17	0.476	0.616
	FR1 n41_Ant 5	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	23.33	24.10	1.194	-0.11	0.042	0.050
	FR1 n41_Ant 5	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	23.29	24.10	1.205	-0.12	0.026	0.031



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	FR1 n41_Ant 5	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	23.33	24.10	1.194	0.03	0.288	0.344
	FR1 n41_Ant 5	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	23.29	24.10	1.205	-0.16	0.148	0.178
	FR1 n41_Ant 5	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	23.33	24.10	1.194	-0.02	0.439	0.524
	FR1 n41_Ant 5	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	23.29	24.10	1.205	0.15	0.230	0.277
	FR1 n41_Ant 5	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	23.33	24.10	1.194	-0.05	0.001	0.001
	FR1 n41_Ant 5	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	23.29	24.10	1.205	-0.08	0.001	0.001
	FR1 n41_Ant 5	100M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	518598	2592.99	23.33	24.10	1.194	0.16	0.435	0.519
	FR1 n41_Ant 5	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	518598	2592.99	23.33	24.10	1.194	0.05	0.437	0.522
	FR1 n41_Ant 5	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	518598	2592.99	23.33	24.10	1.194	0.05	0.370	0.442
	FR1 n41_Ant 5	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	518598	2592.99	23.33	24.10	1.194	-0.03	0.372	0.444
	FR1 n41_Ant 5	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	518598	2592.99	23.33	24.10	1.194	0.15	0.440	0.525
	FR1 n41_Ant 5	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	518598	2592.99	23.33	24.10	1.194	-0.15	0.404	0.482
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	518598	2592.99	25.58	27.00	1.387	0.16	0.401	0.556
	FR1 n41_Ant 2	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.55	22.00	1.109	-0.08	0.115	0.128
	FR1 n41_Ant 2	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.43	22.00	1.140	-0.04	0.044	0.050
	FR1 n41_Ant 2	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.55	22.00	1.109	-0.08	0.301	0.334
	FR1 n41_Ant 2	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.43	22.00	1.140	0.17	0.164	0.187
	FR1 n41_Ant 2	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.55	22.00	1.109	0.18	0.381	0.423
	FR1 n41_Ant 2	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.43	22.00	1.140	-0.04	0.164	0.187
	FR1 n41_Ant 2	100M	BPSK	1	1	Top side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.55	22.00	1.109	-0.13	0.261	0.289
	FR1 n41_Ant 2	100M	BPSK	135	69	Top side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.43	22.00	1.140	0.06	0.108	0.123
	FR1 n41_Ant 2	100M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.55	22.00	1.109	-0.03	0.271	0.301
	FR1 n41_Ant 2	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.55	22.00	1.109	-0.03	0.285	0.316
	FR1 n41_Ant 2	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	518598	2592.99	21.55	22.00	1.109	0.08	0.289	0.321
	FR1 n41_Ant 2	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	518598	2592.99	21.55	22.00	1.109	-0.16	0.412	0.457
	FR1 n41_Ant 2	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	518598	2592.99	21.55	22.00	1.109	-0.07	0.303	0.336
	FR1 n41_Ant 2	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	518598	2592.99	21.55	22.00	1.109	0.05	0.264	0.293
	FR1 n41_Ant 3	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.16	22.00	1.213	0.18	0.161	0.195
	FR1 n41_Ant 3	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	20.09	22.00	1.552	0.14	0.089	0.138
	FR1 n41_Ant 3	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.16	22.00	1.213	-0.17	0.291	0.353
	FR1 n41_Ant 3	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	20.09	22.00	1.552	0.17	0.138	0.214
	FR1 n41_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.16	22.00	1.213	-0.05	0.463	0.562
	FR1 n41_Ant 3	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	20.09	22.00	1.552	0.01	0.248	0.385
	FR1 n41_Ant 3	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.16	22.00	1.213	-0.08	0.056	0.068
	FR1 n41_Ant 3	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	20.09	22.00	1.552	0.05	0.001	0.002
	FR1 n41_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.16	22.00	1.213	0.06	0.339	0.411
54	FR1 n41_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.16	22.00	1.213	-0.1	0.488	0.592
	FR1 n41_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 2	Wlan Off	DSI 3	518598	2592.99	21.16	22.00	1.213	-0.09	0.396	0.481
	FR1 n41_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 3	Wlan Off	DSI 3	518598	2592.99	21.16	22.00	1.213	-0.08	0.354	0.430
	FR1 n41_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 4	Wlan Off	DSI 3	518598	2592.99	21.16	22.00	1.213	0.13	0.412	0.500
	FR1 n41_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 5	Wlan Off	DSI 3	518598	2592.99	21.16	22.00	1.213	0.12	0.350	0.425
	FR1 n41_Ant 4	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.87	22.00	1.030	0.03	0.088	0.091
	FR1 n41_Ant 4	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.77	22.00	1.054	0.18	0.068	0.072
	FR1 n41_Ant 4	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.87	22.00	1.030	0.16	0.109	0.112
	FR1 n41_Ant 4	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.77	22.00	1.054	-0.1	0.088	0.093
	FR1 n41_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.87	22.00	1.030	-0.1	0.172	0.177
	FR1 n41_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.77	22.00	1.054	0.01	0.156	0.164
	FR1 n41_Ant 4	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.87	22.00	1.030	0.07	0.001	0.001
	FR1 n41_Ant 4	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.77	22.00	1.054	-0.18	0.001	0.001
	FR1 n41_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.87	22.00	1.030	0.03	0.147	0.151
	FR1 n41_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	518598	2592.99	21.87	22.00	1.030	-0.15	0.159	0.164
	FR1 n41_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	518598	2592.99	21.87	22.00	1.030	-0.15	0.161	0.166
	FR1 n41_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	518598	2592.99	21.87	22.00	1.030	-0.19	0.176	0.181
	FR1 n41_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	518598	2592.99	21.87	22.00	1.030	0.11	0.168	0.173
	FR1 n41_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	518598	2592.99	21.87	22.00	1.030	-0.08	0.143	0.147
	FR1 n48_Ant 8	40M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	22.38	22.80	1.102	0.08	0.177	0.195
	FR1 n48_Ant 8	40M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	22.28	22.80	1.127	0.01	0.175	0.197
	FR1 n48_Ant 8	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	22.38	22.80	1.102	0.03	0.319	0.351
	FR1 n48_Ant 8	40M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	22.28	22.80	1.127	-0.08	0.298	0.336
	FR1 n48_Ant 8	40M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	22.38	22.80	1.102	-0.18	0.618	0.681
	FR1 n																		



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	FR1 n48_Ant 8	40M	BPSK	50	28	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	645332	3679.98	22.15	22.80	1.161	-0.17	0.601	0.698
	FR1 n48_Ant 8	40M	BPSK	100	0	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	22.20	22.30	1.023	-0.03	0.547	0.560
	FR1 n48_Ant 8	40M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	22.38	22.80	1.102	0.14	0.180	0.198
	FR1 n48_Ant 8	40M	BPSK	50	28	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	22.28	22.80	1.127	0.11	0.184	0.207
	FR1 n48_Ant 8	40M	BPSK	1	1	Right side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	638000	3570	22.28	22.80	1.127	-0.05	0.495	0.558
	FR1 n48_Ant 8	40M	BPSK	1	1	Right side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	638000	3570	22.28	22.80	1.127	0.18	0.529	0.596
	FR1 n48_Ant 8	40M	BPSK	1	1	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	638000	3570	22.28	22.80	1.127	0.14	0.679	0.765
	FR1 n48_Ant 8	40M	BPSK	1	1	Right side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	638000	3570	22.28	22.80	1.127	-0.17	0.679	0.765
	FR1 n48_Ant 8	40M	BPSK	1	1	Right side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	638000	3570	22.28	22.80	1.127	0.17	0.535	0.603
	FR1 n48_Ant 8	40M	BPSK	1	1	Right side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	638000	3570	22.28	22.80	1.127	-0.05	0.691	0.779
	FR1 n48_Ant 9	40M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.62	22.70	1.282	0.02	0.152	0.195
	FR1 n48_Ant 9	40M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.60	22.70	1.288	0.07	0.181	0.233
	FR1 n48_Ant 9	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.62	22.70	1.282	0.16	0.298	0.382
	FR1 n48_Ant 9	40M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.60	22.70	1.288	0.13	0.305	0.393
	FR1 n48_Ant 9	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.62	22.70	1.282	-0.08	0.622	0.798
	FR1 n48_Ant 9	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	638000	3570	21.31	22.70	1.377	0.07	0.508	0.700
	FR1 n48_Ant 9	40M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	645332	3679.98	21.48	22.70	1.324	0	0.572	0.758
55	FR1 n48_Ant 9	40M	BPSK	50	28	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.60	22.70	1.288	0.1	0.620	0.799
	FR1 n48_Ant 9	40M	BPSK	50	28	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	638000	3570	21.01	22.70	1.476	0.07	0.514	0.759
	FR1 n48_Ant 9	40M	BPSK	50	28	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	645332	3679.98	21.29	22.70	1.384	0	0.501	0.693
	FR1 n48_Ant 9	40M	BPSK	100	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.38	22.70	1.355	0.04	0.469	0.636
	FR1 n48_Ant 9	40M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.62	22.70	1.282	-0.17	0.046	0.059
	FR1 n48_Ant 9	40M	BPSK	50	28	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.60	22.70	1.288	-0.1	0.060	0.077
	FR1 n48_Ant 9	40M	BPSK	50	28	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.60	22.70	1.288	0.18	0.603	0.777
	FR1 n48_Ant 9	40M	BPSK	50	28	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	641666	3624.99	21.60	22.70	1.288	-0.17	0.610	0.786
	FR1 n48_Ant 9	40M	BPSK	50	28	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	641666	3624.99	21.60	22.70	1.288	-0.04	0.615	0.792
	FR1 n48_Ant 9	40M	BPSK	50	28	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	641666	3624.99	21.60	22.70	1.288	-0.05	0.606	0.781
	FR1 n48_Ant 9	40M	BPSK	50	28	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	641666	3624.99	21.60	22.70	1.288	0	0.615	0.792
	FR1 n48_Ant 9	40M	BPSK	50	28	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	641666	3624.99	21.60	22.70	1.288	-0.13	0.612	0.788
	FR1 n66_Ant 1	20M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	0.18	0.227	0.288
	FR1 n66_Ant 1	20M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	349000	1745	20.45	21.60	1.303	0.14	0.221	0.288
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	-0.17	0.539	0.685
	FR1 n66_Ant 1	20M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	349000	1745	20.45	21.60	1.303	0.17	0.502	0.654
	FR1 n66_Ant 1	20M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	-0.05	0.062	0.079
	FR1 n66_Ant 1	20M	BPSK	50	28	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	349000	1745	20.45	21.60	1.303	0.01	0.035	0.046
	FR1 n66_Ant 1	20M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	0.1	0.330	0.419
	FR1 n66_Ant 1	20M	BPSK	50	28	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	349000	1745	20.45	21.60	1.303	-0.17	0.296	0.386
	FR1 n66_Ant 1	20M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	-0.08	0.343	0.436
	FR1 n66_Ant 1	20M	BPSK	50	28	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	349000	1745	20.45	21.60	1.303	0.05	0.333	0.434
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	0.06	0.530	0.673
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	-0.09	0.429	0.545
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	-0.08	0.378	0.480
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	0.13	0.556	0.706
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	0.12	0.543	0.690
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	349000	1745	20.56	21.60	1.271	-0.16	0.574	0.729
	FR1 n66_Ant 5	20M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	354000	1770	22.93	23.60	1.167	0.08	0.137	0.160
	FR1 n66_Ant 5	20M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	354000	1770	22.87	23.60	1.183	0.01	0.161	0.190
	FR1 n66_Ant 5	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	354000	1770	22.93	23.60	1.167	0.03	0.230	0.268
	FR1 n66_Ant 5	20M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	354000	1770	22.87	23.60	1.183	-0.08	0.246	0.291
56	FR1 n66_Ant 5	20M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	354000	1770	22.37	23.60	1.327	-0.06	0.551	0.731
	FR1 n66_Ant 5	20M	BPSK	50	28	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	354000	1770	22.87	23.60	1.183	-0.08	0.504	0.596
	FR1 n66_Ant 5	20M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	354000	1770	22.93	23.60	1.167	0.1	0.121	0.141
	FR1 n66_Ant 5	20M	BPSK	50	28	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	354000	1770	22.87	23.60	1.183	0.12	0.127	0.150
	FR1 n66_Ant 5	20M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	354000	1770	22.93	23.60	1.167	0.08	0.541	0.631
	FR1 n66_Ant 5	20M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	354000	1770	22.93	23.60	1.167	-0.17	0.359	0.419
	FR1 n66_Ant 5	20M	BPSK	1	1	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	354000	1770	22.93	23.60	1.167	-0.03	0.469	0.547
	FR1 n66_Ant 5	20M	BPSK	1	1	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	354000	1770	22.93	23.60	1.167	0.14	0.472	0.551
	FR1 n66_Ant 5	20M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	354000	1770	22.93	23.60	1.167	0.11	0.458	0.534
	FR1 n66_Ant 5	20M	BPSK	1	1	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	354000	1770	22.93	23.60	1.167	-0.05	0.479	0.559
	FR1 n71_Ant 1	20M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	-0.13	0.180	0.200
	FR1 n71_Ant 1	20M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	136100	680.5	24.58	25.20	1.153	0.17	0.175	0.202
57	FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	-0.03	0.384	0.426
	FR1 n71_Ant 1	20M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	136100	680.5	24.58	25.20	1.153	0.06	0.340	0.392
	FR1 n71_Ant 1	20M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	0	0.218	0.242



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FR1 n71_Ant 1	20M	BPSK	50	28	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	136100	680.5	24.58	25.20	1.153	-0.04	0.279	0.322
FR1 n71_Ant 1	20M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	-0.15	0.172	0.191
FR1 n71_Ant 1	20M	BPSK	50	28	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	136100	680.5	24.58	25.20	1.153	0.11	0.130	0.150
FR1 n71_Ant 1	20M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	-0.02	0.113	0.125
FR1 n71_Ant 1	20M	BPSK	50	28	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	136100	680.5	24.58	25.20	1.153	0.1	0.105	0.121
FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	0.04	0.366	0.406
FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	0.13	0.318	0.353
FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	-0.18	0.311	0.345
FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	-0.11	0.336	0.373
FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	-0.16	0.320	0.355
FR1 n71_Ant 1	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	136100	680.5	24.75	25.20	1.109	-0.15	0.347	0.385
FR1 n77_Ant 8	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	20.74	21.50	1.191	0.01	0.223	0.266
FR1 n77_Ant 8	100M	BPSK	135	138	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	20.60	21.50	1.230	0.1	0.285	0.351
FR1 n77_Ant 8	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	20.74	21.50	1.191	0.04	0.243	0.289
FR1 n77_Ant 8	100M	BPSK	135	138	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	20.60	21.50	1.230	-0.01	0.282	0.347
FR1 n77_Ant 8	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	20.74	21.50	1.191	-0.09	0.557	0.664
FR1 n77_Ant 8	100M	BPSK	135	138	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	20.60	21.50	1.230	-0.13	0.591	0.727
FR1 n77_Ant 8	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	20.74	21.50	1.191	0.13	0.171	0.204
FR1 n77_Ant 8	100M	BPSK	135	138	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	20.60	21.50	1.230	0.12	0.186	0.229
FR1 n77_Ant 8	100M	BPSK	135	138	Right side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	656000	3840	20.60	21.50	1.230	0.03	0.472	0.581
FR1 n77_Ant 8	100M	BPSK	135	138	Right side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	656000	3840	20.60	21.50	1.230	0.18	0.542	0.667
FR1 n77_Ant 8	100M	BPSK	135	138	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	656000	3840	20.60	21.50	1.230	0.16	0.464	0.571
FR1 n77_Ant 8	100M	BPSK	135	138	Right side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	656000	3840	20.60	21.50	1.230	-0.1	0.557	0.685
FR1 n77_Ant 8	100M	BPSK	135	138	Right side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	656000	3840	20.60	21.50	1.230	0.07	0.565	0.695
FR1 n77_Ant 8	100M	BPSK	135	138	Right side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	656000	3840	20.60	21.50	1.230	0.18	0.561	0.690
FR1 n77_HPUE_Ant 8	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	24.01	24.50	1.119	-0.1	0.593	0.664
FR1 n77_Ant 8	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	20.56	21.50	1.242	0.11	0.173	0.215
FR1 n77_Ant 8	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	20.51	21.50	1.256	-0.08	0.168	0.211
FR1 n77_Ant 8	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	20.56	21.50	1.242	-0.17	0.318	0.395
FR1 n77_Ant 8	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	20.51	21.50	1.256	-0.08	0.312	0.392
FR1 n77_Ant 8	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	20.56	21.50	1.242	0.17	0.408	0.507
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	20.51	21.50	1.256	-0.13	0.460	0.578
FR1 n77_Ant 8	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	20.56	21.50	1.242	-0.08	0.164	0.204
FR1 n77_Ant 8	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	20.51	21.50	1.256	-0.13	0.157	0.197
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	633332	3499.98	20.51	21.50	1.256	-0.13	0.358	0.450
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	633332	3499.98	20.51	21.50	1.256	0.06	0.360	0.452
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	633332	3499.98	20.51	21.50	1.256	-0.03	0.388	0.487
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	633332	3499.98	20.51	21.50	1.256	-0.03	0.452	0.568
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	633332	3499.98	20.51	21.50	1.256	0.08	0.455	0.571
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	633332	3499.98	20.51	21.50	1.256	-0.07	0.360	0.452
FR1 n77_HPUE_Ant 8	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	23.57	24.50	1.239	0.05	0.435	0.539
FR1 n77_Ant 8	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	20.56	21.50	1.242	-0.11	0.238	0.296
FR1 n77_Ant 8	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	20.45	21.50	1.274	-0.12	0.230	0.293
FR1 n77_Ant 8	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	20.56	21.50	1.242	0.03	0.403	0.500
FR1 n77_Ant 8	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	20.45	21.50	1.274	-0.16	0.366	0.466
FR1 n77_Ant 8	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	20.56	21.50	1.242	-0.09	0.581	0.721
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	20.45	21.50	1.274	-0.06	0.601	0.765
FR1 n77_Ant 8	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	20.56	21.50	1.242	-0.08	0.158	0.196
FR1 n77_Ant 8	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	20.45	21.50	1.274	0.16	0.192	0.245
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	641666	3624.99	20.45	21.50	1.274	0.05	0.381	0.485
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	641666	3624.99	20.45	21.50	1.274	0.05	0.578	0.736
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	641666	3624.99	20.45	21.50	1.274	-0.03	0.548	0.698
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	641666	3624.99	20.45	21.50	1.274	-0.15	0.585	0.745
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	641666	3624.99	20.45	21.50	1.274	0.02	0.595	0.758
FR1 n77_Ant 8	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	641666	3624.99	20.45	21.50	1.274	0.07	0.547	0.697
FR1 n77_Ant 9	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	17.25	17.90	1.161	0.08	0.124	0.144
FR1 n77_Ant 9	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	17.16	17.90	1.186	0.01	0.131	0.155
FR1 n77_Ant 9	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	17.25	17.90	1.161	0.03	0.284	0.330
FR1 n77_Ant 9	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	17.16	17.90	1.186	-0.08	0.351	0.416
FR1 n77_Ant 9	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	17.25	17.90	1.161	-0.08	0.559	0.649
FR1 n77_Ant 9	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	17.16	17.90	1.186	-0.09	0.600	0.711
FR1 n77_Ant 9	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	17.25	17.90	1.161	0.08	0.036	0.042
FR1 n77_Ant 9	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	17.16	17.90	1.186	-0.17	0.048	0.057
FR1 n77_Ant 9	100M	BPSK	135	69	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	656000	3840	17.16	17.90	1.186	-0.03	0.573	0.679



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	FR1 n77_Ant 9	100M	BPSK	135	69	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	656000	3840	17.16	17.90	1.186	0.14	0.577	0.684
	FR1 n77_Ant 9	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	656000	3840	17.16	17.90	1.186	0.11	0.425	0.504
	FR1 n77_Ant 9	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	656000	3840	17.16	17.90	1.186	-0.05	0.582	0.690
	FR1 n77_Ant 9	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	656000	3840	17.16	17.90	1.186	0.18	0.595	0.706
	FR1 n77_Ant 9	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	656000	3840	17.16	17.90	1.186	0.14	0.573	0.679
	FR1 n77_Ant 9	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	16.80	17.90	1.288	0.16	0.078	0.100
	FR1 n77_Ant 9	100M	BPSK	135	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	16.72	17.90	1.312	-0.1	0.074	0.097
	FR1 n77_Ant 9	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	16.80	17.90	1.288	0.07	0.169	0.218
	FR1 n77_Ant 9	100M	BPSK	135	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	16.72	17.90	1.312	0.18	0.178	0.234
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	16.80	17.90	1.288	-0.1	0.333	0.429
	FR1 n77_Ant 9	100M	BPSK	135	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	16.72	17.90	1.312	-0.05	0.338	0.444
	FR1 n77_Ant 9	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	16.80	17.90	1.288	0.19	0.036	0.046
	FR1 n77_Ant 9	100M	BPSK	135	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	16.72	17.90	1.312	0.07	0.030	0.039
	FR1 n77_Ant 9	100M	BPSK	135	0	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	633332	3499.98	16.72	17.90	1.312	-0.18	0.242	0.318
	FR1 n77_Ant 9	100M	BPSK	135	0	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	633332	3499.98	16.72	17.90	1.312	0.03	0.316	0.415
	FR1 n77_Ant 9	100M	BPSK	135	0	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	633332	3499.98	16.72	17.90	1.312	-0.15	0.300	0.394
	FR1 n77_Ant 9	100M	BPSK	135	0	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	633332	3499.98	16.72	17.90	1.312	-0.15	0.295	0.387
	FR1 n77_Ant 9	100M	BPSK	135	0	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	633332	3499.98	16.72	17.90	1.312	0.11	0.329	0.432
	FR1 n77_Ant 9	100M	BPSK	135	0	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	633332	3499.98	16.72	17.90	1.312	-0.08	0.297	0.390
	FR1 n77_Ant 9	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	16.84	17.90	1.276	0.16	0.136	0.174
	FR1 n77_Ant 9	100M	BPSK	135	0	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	16.71	17.90	1.315	0.13	0.115	0.151
	FR1 n77_Ant 9	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	16.84	17.90	1.276	-0.18	0.294	0.375
	FR1 n77_Ant 9	100M	BPSK	135	0	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	16.71	17.90	1.315	0.02	0.279	0.367
58	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	16.84	17.90	1.276	0.15	0.624	0.796
	FR1 n77_Ant 9	100M	BPSK	135	0	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	16.71	17.90	1.315	0.16	0.587	0.772
	FR1 n77_Ant 9	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	16.84	17.90	1.276	-0.01	0.015	0.019
	FR1 n77_Ant 9	100M	BPSK	135	0	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	16.71	17.90	1.315	-0.06	0.011	0.014
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	641666	3624.99	16.84	17.90	1.276	-0.04	0.486	0.620
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	641666	3624.99	16.84	17.90	1.276	-0.09	0.594	0.758
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	641666	3624.99	16.84	17.90	1.276	-0.17	0.431	0.550
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	641666	3624.99	16.84	17.90	1.276	-0.1	0.424	0.541
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	641666	3624.99	16.84	17.90	1.276	-0.17	0.606	0.774
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	641666	3624.99	16.84	17.90	1.276	-0.17	0.498	0.636
	FR1 n77_Ant 4	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.51	19.50	1.256	-0.17	0.069	0.087
	FR1 n77_Ant 4	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.45	19.50	1.274	0.17	0.076	0.097
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.51	19.50	1.256	-0.05	0.293	0.368
	FR1 n77_Ant 4	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.45	19.50	1.274	0.01	0.315	0.401
	FR1 n77_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.51	19.50	1.256	0.04	0.487	0.612
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.45	19.50	1.274	0.09	0.505	0.643
	FR1 n77_Ant 4	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.51	19.50	1.256	-0.01	0.015	0.019
	FR1 n77_Ant 4	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.45	19.50	1.274	-0.08	0.018	0.023
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	656000	3840	18.45	19.50	1.274	0.05	0.431	0.549
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	656000	3840	18.45	19.50	1.274	0.06	0.452	0.576
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	656000	3840	18.45	19.50	1.274	-0.09	0.470	0.599
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	656000	3840	18.45	19.50	1.274	-0.08	0.359	0.457
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	656000	3840	18.45	19.50	1.274	0.13	0.479	0.610
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	656000	3840	18.45	19.50	1.274	0.12	0.439	0.559
	FR1 n77_Ant 4	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.55	19.50	1.245	0.17	0.059	0.073
	FR1 n77_Ant 4	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.60	19.50	1.230	-0.05	0.062	0.076
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.55	19.50	1.245	0.01	0.337	0.419
	FR1 n77_Ant 4	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.60	19.50	1.230	0.1	0.292	0.359
	FR1 n77_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.55	19.50	1.245	-0.08	0.528	0.657
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.60	19.50	1.230	-0.01	0.642	0.790
	FR1 n77_Ant 4	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.55	19.50	1.245	0.05	0.020	0.025
	FR1 n77_Ant 4	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.60	19.50	1.230	0.06	0.009	0.011
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.60	19.50	1.230	-0.09	0.392	0.482
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.60	19.50	1.230	-0.08	0.484	0.595
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	633332	3499.98	18.60	19.50	1.230	0.13	0.594	0.731
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	633332	3499.98	18.60	19.50	1.230	0.12	0.598	0.736
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	633332	3499.98	18.60	19.50	1.230	0.03	0.624	0.768
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	633332	3499.98	18.60	19.50	1.230	0.18	0.598	0.736
	FR1 n77_Ant 4	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.24	19.50	1.337	-0.04	0.062	0.083
	FR1 n77_Ant 4	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.19	19.50	1.352	-0.05	0.054	0.073
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.24	19.50	1.337	0	0.257	0.344



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FR1 n77_Ant 4	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.19	19.50	1.352	-0.13	0.242	0.327
FR1 n77_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.24	19.50	1.337	0.05	0.480	0.642
FR1 n77_Ant 4	100M	BPSK	135	69	Right side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.19	19.50	1.352	0.02	0.466	0.630
FR1 n77_Ant 4	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.24	19.50	1.337	0.06	0.035	0.047
FR1 n77_Ant 4	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.19	19.50	1.352	0	0.015	0.020
FR1 n77_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.24	19.50	1.337	-0.04	0.414	0.553
FR1 n77_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.24	19.50	1.337	-0.15	0.442	0.591
FR1 n77_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	641666	3624.99	18.24	19.50	1.337	0.11	0.566	0.757
FR1 n77_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	641666	3624.99	18.24	19.50	1.337	-0.02	0.534	0.714
FR1 n77_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	641666	3624.99	18.24	19.50	1.337	0.1	0.525	0.702
FR1 n77_Ant 4	100M	BPSK	1	1	Right side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	641666	3624.99	18.24	19.50	1.337	-0.01	0.571	0.763
FR1 n77_Ant 3	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.79	20.30	1.416	0.03	0.049	0.069
FR1 n77_Ant 3	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.69	20.30	1.449	0.18	0.053	0.077
FR1 n77_Ant 3	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.79	20.30	1.416	0.16	0.466	0.660
FR1 n77_Ant 3	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.69	20.30	1.449	-0.1	0.522	0.756
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.79	20.30	1.416	-0.07	0.558	0.790
FR1 n77_Ant 3	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.69	20.30	1.449	0.07	0.467	0.677
FR1 n77_Ant 3	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.79	20.30	1.416	0.01	0.028	0.040
FR1 n77_Ant 3	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	656000	3840	18.69	20.30	1.449	-0.15	0.021	0.030
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	656000	3840	18.79	20.30	1.416	0.19	0.437	0.619
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	656000	3840	18.79	20.30	1.416	0.07	0.470	0.665
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	656000	3840	18.79	20.30	1.416	-0.18	0.478	0.677
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	656000	3840	18.79	20.30	1.416	0.03	0.410	0.580
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	656000	3840	18.79	20.30	1.416	-0.15	0.538	0.762
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	656000	3840	18.79	20.30	1.416	-0.15	0.522	0.739
FR1 n77_Ant 3	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.79	20.30	1.416	0.18	0.060	0.085
FR1 n77_Ant 3	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.62	20.30	1.472	0.14	0.059	0.087
FR1 n77_Ant 3	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.79	20.30	1.416	-0.17	0.166	0.235
FR1 n77_Ant 3	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.62	20.30	1.472	0.17	0.156	0.230
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.79	20.30	1.416	-0.05	0.234	0.331
FR1 n77_Ant 3	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.62	20.30	1.472	0.01	0.186	0.274
FR1 n77_Ant 3	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.79	20.30	1.416	0.04	0.045	0.064
FR1 n77_Ant 3	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.62	20.30	1.472	-0.01	0.022	0.032
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.79	20.30	1.416	-0.08	0.169	0.239
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	633332	3499.98	18.79	20.30	1.416	0.05	0.223	0.316
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	633332	3499.98	18.79	20.30	1.416	0.06	0.206	0.292
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	633332	3499.98	18.79	20.30	1.416	-0.09	0.195	0.276
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	633332	3499.98	18.79	20.30	1.416	-0.08	0.207	0.293
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	633332	3499.98	18.79	20.30	1.416	0.13	0.197	0.279
FR1 n77_Ant 3	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.78	20.30	1.419	0.04	0.078	0.111
FR1 n77_Ant 3	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.68	20.30	1.452	0.13	0.072	0.105
FR1 n77_Ant 3	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.78	20.30	1.419	-0.18	0.163	0.231
FR1 n77_Ant 3	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.68	20.30	1.452	-0.11	0.153	0.222
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.78	20.30	1.419	-0.16	0.232	0.329
FR1 n77_Ant 3	100M	BPSK	135	69	Left side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.68	20.30	1.452	-0.15	0.214	0.311
FR1 n77_Ant 3	100M	BPSK	1	1	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.78	20.30	1.419	0.06	0.022	0.031
FR1 n77_Ant 3	100M	BPSK	135	69	Bottom side	10mm	Sample 1	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.68	20.30	1.452	0.02	0.011	0.016
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 3	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.78	20.30	1.419	0.12	0.153	0.217
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 5	Battery 1	Wlan Off	DSI 3	641666	3624.99	18.78	20.30	1.419	-0.16	0.227	0.322
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 2	Wlan Off	DSI 3	641666	3624.99	18.78	20.30	1.419	-0.12	0.211	0.299
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 3	Wlan Off	DSI 3	641666	3624.99	18.78	20.30	1.419	0.07	0.249	0.353
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 4	Wlan Off	DSI 3	641666	3624.99	18.78	20.30	1.419	-0.02	0.240	0.341
FR1 n77_Ant 3	100M	BPSK	1	1	Left side	10mm	Sample 1	Battery 5	Wlan Off	DSI 3	641666	3624.99	18.78	20.30	1.419	-0.17	0.251	0.356



FCC SAR TEST REPORT

Report No. : FA411111B

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	Power Status	Non-DBS / DBS	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 6	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	0.08	0.121	0.145
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	-0.05	0.853	1.020
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	Sample 1	Battery 1	Power table 2	Non-DBS	6	2437	20.60	21.00	1.096	85.60	1.168	0.07	0.768	0.984
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	Sample 1	Battery 1	Power table 2	Non-DBS	11	2462	20.80	21.00	1.047	85.60	1.168	0.03	0.812	0.993
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 6	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	0.01	0.001	0.001
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	-0.04	0.817	0.976
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6	Sample 1	Battery 1	Power table 2	Non-DBS	6	2437	20.60	21.00	1.096	85.60	1.168	-0.01	0.712	0.912
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6	Sample 1	Battery 1	Power table 2	Non-DBS	11	2462	20.80	21.00	1.047	85.60	1.168	0.07	0.726	0.888
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Ant 6	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	0.03	0.158	0.189
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	Sample 3	Battery 1	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	-0.08	0.824	0.985
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	Sample 5	Battery 1	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	-0.08	0.836	0.999
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	Sample 1	Battery 2	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	0.1	0.841	1.005
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	Sample 1	Battery 3	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	-0.18	0.831	0.993
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	Sample 1	Battery 4	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	0.1	0.820	0.980
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	Sample 1	Battery 5	Power table 2	Non-DBS	1	2412	20.90	21.00	1.023	85.60	1.168	0.12	0.811	0.969
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6	Sample 1	Battery 1	Power table 2	DBS	1	2412	15.70	16.00	1.072	85.60	1.168	0.04	0.298	0.373
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6	Sample 1	Battery 1	Power table 2	DBS	1	2412	15.70	16.00	1.072	85.60	1.168	0.07	0.269	0.337
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Ant 7	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	0.08	0.057	0.071
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 7	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	-0.03	0.164	0.205
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 7	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	-0.08	0.266	0.333
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 7	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	0.18	0.018	0.023
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Ant 7	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	-0.17	0.042	0.053
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 7	Sample 3	Battery 1	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	0.11	0.231	0.289
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 7	Sample 5	Battery 1	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	-0.05	0.245	0.307
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 7	Sample 1	Battery 2	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	0.18	0.240	0.300
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 7	Sample 1	Battery 3	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	0.14	0.253	0.317
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 7	Sample 1	Battery 4	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	-0.17	0.247	0.309
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 7	Sample 1	Battery 5	Power table 2	Non-DBS	1	2412	20.70	21.00	1.072	85.60	1.168	0.17	0.239	0.299
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 7	Sample 1	Battery 1	Power table 2	DBS	1	2412	15.80	16.00	1.047	85.60	1.168	-0.11	0.099	0.121
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	0.01	0.159	0.223
59	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	0.14	0.854	1.196
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	6	2437	19.60	21.00	1.380	85.84	1.165	-0.08	0.683	1.098
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	11	2462	19.90	21.00	1.288	85.84	1.165	0.1	0.726	1.090
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	0.03	0.240	0.336
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	-0.07	0.732	1.025
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	6	2437	19.60	21.00	1.380	85.84	1.165	-0.08	0.621	0.999
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	11	2462	19.90	21.00	1.288	85.84	1.165	0.03	0.644	0.967
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	-0.08	0.246	0.345
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Sample 3	Battery 1	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	-0.18	0.802	1.123
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Sample 5	Battery 1	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	0.1	0.726	1.017
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Sample 1	Battery 2	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	0.12	0.635	0.889
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Sample 1	Battery 3	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	0.08	0.756	1.059
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Sample 1	Battery 4	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	-0.17	0.697	0.976
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Sample 1	Battery 5	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	-0.03	0.733	1.027
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 2	DBS	1	2412	15.30	16.00	1.175	85.84	1.165	-0.08	0.290	0.397
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 2	DBS	1	2412	15.30	16.00	1.175	85.84	1.165	0.03	0.261	0.357
	WLAN5GHZ	802.11n-HT40 MCS0	Front	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	-0.04	0.129	0.173
	WLAN5GHZ	802.11n-HT40 MCS0	Back	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	-0.03	0.895	1.197
	WLAN5GHZ	802.11a 6Mbps	Back	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	36	5180	17.10	18.00	1.230	86.07	1.162	0.07	0.786	1.124
	WLAN5GHZ	802.11n-HT40 MCS0	Left Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	-0.05	0.594	0.795
60	WLAN5GHZ	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	-0.19	0.896	1.198
	WLAN5GHZ	802.11a 6Mbps	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	36	5180	17.10	18.00	1.230	86.07	1.162	0.03	0.668	0.955
	WLAN5GHZ	802.11n-HT40 MCS0	Top Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	0.18	0.384	0.514
	WLAN5GHZ	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 3	Battery 1	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	-0.17	0.879	1.176
	WLAN5GHZ	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 5	Battery 1	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	-0.04	0.877	1.173
	WLAN5GHZ	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 2	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	-0.05	0.828	1.108
	WLAN5GHZ	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 3	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	0	0.837	1.120
	WLAN5GHZ	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 4	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	-0.13	0.873	1.168



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	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 5	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	-0.01	0.868	1.161
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	DBS	42	5210	13.50	14.00	1.122	86.15	1.161	0.09	0.306	0.399
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	DBS	42	5210	13.50	14.00	1.122	86.15	1.161	-0.05	0.281	0.366
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	DBS	42	5210	13.50	14.00	1.122	86.15	1.161	-0.05	0.305	0.397
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	-0.09	0.102	0.149
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	0.05	0.261	0.381
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	0.02	0.333	0.487
61	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	-0.12	0.814	1.190
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	151	5755	15.50	16.00	1.122	85.87	1.165	0.18	0.757	0.990
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	0.17	0.057	0.083
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 3	Battery 1	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	0.06	0.682	0.997
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 5	Battery 1	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	0	0.692	1.011
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 2	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	-0.04	0.689	1.007
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 3	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	-0.16	0.781	1.142
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 4	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	-0.15	0.762	1.114
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 5	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	0.11	0.764	1.117
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 3	Power table 2	DBS	155	5775	10.70	11.00	1.072	86.15	1.161	-0.05	0.297	0.369

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	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 6	Sample 1	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	-0.02	0.001	0.001
62	Bluetooth	1Mbps	Back	10mm	Ant 6	Sample 1	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	-0.12	0.020	0.024
	Bluetooth	1Mbps	Left Side	10mm	Ant 6	Sample 1	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	0.15	0.001	0.001
	Bluetooth	1Mbps	Right Side	10mm	Ant 6	Sample 1	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	0.02	0.015	0.018
	Bluetooth	1Mbps	Top Side	10mm	Ant 6	Sample 1	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	-0.09	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 6	Sample 3	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	0.16	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 6	Sample 5	Battery 1	0	2402	5.98	6.50	1.127	76.86	1.084	0.05	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 6	Sample 1	Battery 2	0	2402	5.98	6.50	1.127	76.86	1.084	0.05	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 6	Sample 1	Battery 3	0	2402	5.98	6.50	1.127	76.86	1.084	-0.03	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 6	Sample 1	Battery 4	0	2402	5.98	6.50	1.127	76.86	1.084	-0.15	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 6	Sample 1	Battery 5	0	2402	5.98	6.50	1.127	76.86	1.084	0.02	0.001	0.001
	Bluetooth	1Mbps	Front	10mm	Ant 7	Sample 1	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	0.07	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 7	Sample 1	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	-0.04	0.001	0.001
	Bluetooth	1Mbps	Left Side	10mm	Ant 7	Sample 1	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	0.16	0.001	0.001
	Bluetooth	1Mbps	Right Side	10mm	Ant 7	Sample 1	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	0	0.001	0.001
	Bluetooth	1Mbps	Top Side	10mm	Ant 7	Sample 1	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	0.13	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 7	Sample 3	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	-0.03	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 7	Sample 5	Battery 1	39	2441	6.45	6.50	1.012	76.80	1.085	0.07	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 7	Sample 1	Battery 2	39	2441	6.45	6.50	1.012	76.80	1.085	0	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 7	Sample 1	Battery 3	39	2441	6.45	6.50	1.012	76.80	1.085	0.01	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 7	Sample 1	Battery 4	39	2441	6.45	6.50	1.012	76.80	1.085	-0.01	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 7	Sample 1	Battery 5	39	2441	6.45	6.50	1.012	76.80	1.085	-0.06	0.001	0.001



13.3 Body-Worn Accessory SAR

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Accessories	Wlan On / Off	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_Ant 1	RMC 12.2Kbps	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	9538	1907.6	23.71	24.90	1.315	0.08	0.288	0.379
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	9538	1907.6	23.71	24.90	1.315	-0.07	0.443	0.583
63	WCDMA II_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	9538	1907.6	23.71	24.90	1.315	-0.1	0.553	0.727
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	9538	1907.6	23.71	24.90	1.315	-0.08	0.551	0.725
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	9538	1907.6	23.71	24.90	1.315	0.1	0.528	0.694
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	9538	1907.6	23.71	24.90	1.315	-0.18	0.323	0.425
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	9538	1907.6	23.71	24.90	1.315	0.1	0.493	0.648
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	9538	1907.6	23.71	24.90	1.315	0.12	0.523	0.688
	WCDMA II_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	9538	1907.6	23.71	24.90	1.315	0.08	0.540	0.710
	WCDMA IV_Ant 1	RMC 12.2Kbps	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	1513	1752.6	24.44	25.00	1.138	0.08	0.317	0.361
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	1513	1752.6	24.44	25.00	1.138	0.01	0.798	0.908
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	0.03	0.772	0.926
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	-0.08	0.771	0.879
64	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	-0.07	0.988	1.185
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	0.01	0.889	1.014
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	1513	1752.6	24.44	25.00	1.138	0.05	0.912	1.038
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	-0.08	0.957	1.148
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	0.08	0.840	0.958
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	1513	1752.6	24.44	25.00	1.138	0.01	0.857	0.975
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	0.1	0.925	1.110
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	0.03	0.824	0.940
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	1513	1752.6	24.44	25.00	1.138	-0.08	0.836	0.951
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	-0.18	0.718	0.861
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	0.1	0.941	1.129
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	0.12	0.972	1.166
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	0.08	0.980	1.176
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 5	Holster	Wlan On	DSI 1	1513	1752.6	22.53	23.20	1.167	-0.02	0.659	0.769
	WCDMA V_Ant 1	RMC 12.2Kbps	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	4132	826.4	24.68	25.20	1.127	-0.17	0.252	0.284
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	4132	826.4	24.68	25.20	1.127	-0.03	0.320	0.361
65	WCDMA V_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	4132	826.4	24.68	25.20	1.127	-0.12	0.388	0.437
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	4132	826.4	24.68	25.20	1.127	0.11	0.365	0.411
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	4132	826.4	24.68	25.20	1.127	-0.05	0.364	0.410
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	4132	826.4	24.68	25.20	1.127	0.18	0.229	0.258
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	4132	826.4	24.68	25.20	1.127	0.14	0.340	0.383
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	4132	826.4	24.68	25.20	1.127	-0.17	0.349	0.393
	WCDMA V_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	4132	826.4	24.68	25.20	1.127	0.17	0.351	0.396



FCC SAR TEST REPORT

Report No. : FA411111B

<LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Accessories	Wlan On / Off	Power State	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_Ant 5	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	20850	2510	22.40	22.50	1.023	0.08	0.028	0.029
	LTE Band 7_Ant 5	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	20850	2510	21.45	22.50	1.274	0.01	0.015	0.019
	LTE Band 7_Ant 5	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	20850	2510	22.40	22.50	1.023	0.03	0.167	0.171
	LTE Band 7_Ant 5	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	20850	2510	21.45	22.50	1.274	-0.08	0.133	0.169
	LTE Band 7_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	20850	2510	22.40	22.50	1.023	-0.08	0.202	0.207
66	LTE Band 7_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	20850	2510	22.40	22.50	1.023	-0.09	0.205	0.210
	LTE Band 7_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	20850	2510	22.40	22.50	1.023	0.1	0.193	0.197
	LTE Band 7_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 2	Holster	Wlan Off	DSI 1	20850	2510	22.40	22.50	1.023	-0.18	0.124	0.127
	LTE Band 7_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 3	Holster	Wlan Off	DSI 1	20850	2510	22.40	22.50	1.023	0.1	0.193	0.197
	LTE Band 7_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 4	Holster	Wlan Off	DSI 1	20850	2510	22.40	22.50	1.023	0.12	0.200	0.205
	LTE Band 7_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 5	Holster	Wlan Off	DSI 1	20850	2510	22.40	22.50	1.023	0.08	0.199	0.204
	LTE Band 7C_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	21100+20902	2535	22.38	22.50	1.028	0.18	0.199	0.205
	LTE Band 12_Ant 1	10M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23095	707.5	23.88	25.20	1.355	-0.05	0.257	0.348
	LTE Band 12_Ant 1	10M	QPSK	25	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23095	707.5	22.91	24.20	1.346	0.01	0.209	0.281
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23095	707.5	23.88	25.20	1.355	0.1	0.368	0.499
	LTE Band 12_Ant 1	10M	QPSK	25	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23095	707.5	22.91	24.20	1.346	-0.17	0.321	0.432
67	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	23095	707.5	23.88	25.20	1.355	-0.15	0.369	0.500
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	23095	707.5	23.88	25.20	1.355	0.04	0.368	0.499
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	23095	707.5	23.88	25.20	1.355	-0.01	0.351	0.476
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	23095	707.5	23.88	25.20	1.355	-0.08	0.288	0.390
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	23095	707.5	23.88	25.20	1.355	0.05	0.337	0.457
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	23095	707.5	23.88	25.20	1.355	0.06	0.333	0.451
	LTE Band 12_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	23095	707.5	23.88	25.20	1.355	-0.09	0.341	0.462
	LTE Band 13_Ant 1	10M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23230	782	23.78	25.20	1.387	-0.08	0.193	0.268
	LTE Band 13_Ant 1	10M	QPSK	25	12	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23230	782	22.79	24.20	1.384	0.13	0.153	0.212
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23230	782	23.78	25.20	1.387	0.12	0.256	0.355
	LTE Band 13_Ant 1	10M	QPSK	25	12	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23230	782	22.79	24.20	1.384	0.03	0.208	0.288
68	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	23230	782	23.78	25.20	1.387	-0.18	0.299	0.415
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	23230	782	23.78	25.20	1.387	0.18	0.265	0.367
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	23230	782	23.78	25.20	1.387	0.16	0.270	0.374
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	23230	782	23.78	25.20	1.387	-0.1	0.180	0.250
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	23230	782	23.78	25.20	1.387	0.07	0.280	0.388
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	23230	782	23.78	25.20	1.387	0.18	0.287	0.398
	LTE Band 13_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	23230	782	23.78	25.20	1.387	-0.1	0.296	0.410
	LTE Band 14_Ant 1	10M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23330	793	23.80	25.20	1.380	0.01	0.195	0.269
	LTE Band 14_Ant 1	10M	QPSK	25	12	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23330	793	22.78	24.20	1.387	-0.15	0.149	0.207
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23330	793	23.80	25.20	1.380	0.19	0.255	0.352
	LTE Band 14_Ant 1	10M	QPSK	25	12	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	23330	793	22.78	24.20	1.387	0.07	0.204	0.283
69	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	23330	793	23.80	25.20	1.380	-0.18	0.289	0.399
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	23330	793	23.80	25.20	1.380	-0.18	0.260	0.359
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	23330	793	23.80	25.20	1.380	0.03	0.260	0.359
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	23330	793	23.80	25.20	1.380	-0.15	0.181	0.250
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	23330	793	23.80	25.20	1.380	-0.15	0.273	0.377
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	23330	793	23.80	25.20	1.380	0.11	0.272	0.375
	LTE Band 14_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	23330	793	23.80	25.20	1.380	-0.08	0.282	0.389
	LTE Band 25_Ant 1	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26340	1880	24.21	24.40	1.045	-0.17	0.268	0.280
	LTE Band 25_Ant 1	20M	QPSK	50	24	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26340	1880	23.35	23.40	1.012	-0.08	0.209	0.211
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26340	1880	24.21	24.40	1.045	-0.04	0.595	0.622
	LTE Band 25_Ant 1	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26340	1880	23.35	23.40	1.012	-0.08	0.477	0.483
70	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	26340	1880	24.21	24.40	1.045	-0.14	0.937	0.979
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	26140	1860	24.15	24.40	1.059	0.05	0.908	0.962
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	26590	1905	24.16	24.40	1.057	0.05	0.912	0.964
	LTE Band 25_Ant 1	20M	QPSK	50	24	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	26340	1880	23.35	23.40	1.012	0.1	0.795	0.804



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	LTE Band 25_Ant 1	20M	QPSK	50	24	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	26140	1860	23.24	23.40	1.038	0.04	0.873	0.906
	LTE Band 25_Ant 1	20M	QPSK	50	24	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	26590	1905	23.21	23.40	1.045	-0.18	0.806	0.842
	LTE Band 25_Ant 1	20M	QPSK	100	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	26340	1880	23.23	23.40	1.040	0.06	0.815	0.848
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	26340	1880	24.21	24.40	1.045	0.05	0.935	0.977
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	26340	1880	24.21	24.40	1.045	0.06	0.921	0.962
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	26340	1880	24.21	24.40	1.045	-0.09	0.581	0.607
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	26340	1880	24.21	24.40	1.045	-0.08	0.796	0.832
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	26340	1880	24.21	24.40	1.045	0.13	0.858	0.896
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	26340	1880	24.21	24.40	1.045	0.02	0.904	0.944
	LTE Band 25_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan On	DSI 1	26340	1880	22.41	23.50	1.285	-0.02	0.579	0.744
	LTE Band 2C_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	19100+18902	1900	24.13	24.40	1.064	0.03	0.911	0.969
	LTE Band 2C_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan On	DSI 1	19100+18902	1900	22.33	23.50	1.309	0.03	0.556	0.728
	LTE Band 25_Ant 5	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26340	1880	24.19	24.40	1.050	0.08	0.225	0.236
	LTE Band 25_Ant 5	20M	QPSK	50	50	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26340	1880	22.98	23.40	1.102	0.01	0.194	0.214
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26340	1880	24.19	24.40	1.050	0.03	0.296	0.311
	LTE Band 25_Ant 5	20M	QPSK	50	50	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26340	1880	22.98	23.40	1.102	-0.08	0.258	0.284
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	26340	1880	24.19	24.40	1.050	-0.06	0.479	0.503
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	26340	1880	24.19	24.40	1.050	-0.18	0.437	0.459
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	26340	1880	24.19	24.40	1.050	0.1	0.294	0.309
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	26340	1880	24.19	24.40	1.050	0.12	0.268	0.281
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	26340	1880	24.19	24.40	1.050	0.08	0.399	0.419
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	26340	1880	24.19	24.40	1.050	-0.17	0.409	0.429
	LTE Band 25_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	26340	1880	24.19	24.40	1.050	-0.03	0.386	0.405
	LTE Band 26_Ant 1	15M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26865	831.5	24.39	25.20	1.205	0.08	0.247	0.298
	LTE Band 26_Ant 1	15M	QPSK	36	20	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26865	831.5	23.51	24.20	1.172	0.01	0.202	0.237
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26865	831.5	24.39	25.20	1.205	0.03	0.325	0.392
	LTE Band 26_Ant 1	15M	QPSK	36	20	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	26865	831.5	23.51	24.20	1.172	-0.08	0.267	0.313
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	26865	831.5	24.39	25.20	1.205	-0.08	0.367	0.442
71	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	26865	831.5	24.39	25.20	1.205	-0.1	0.390	0.470
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	26865	831.5	24.39	25.20	1.205	0.1	0.313	0.377
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 3	Battery 2	Holster	Wlan Off	DSI 1	26865	831.5	24.39	25.20	1.205	-0.18	0.250	0.301
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 3	Battery 3	Holster	Wlan Off	DSI 1	26865	831.5	24.39	25.20	1.205	0.1	0.381	0.459
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 3	Battery 4	Holster	Wlan Off	DSI 1	26865	831.5	24.39	25.20	1.205	0.12	0.337	0.406
	LTE Band 26_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 3	Battery 5	Holster	Wlan Off	DSI 1	26865	831.5	24.39	25.20	1.205	0.08	0.364	0.439
	LTE Band 5B_Ant 1	10M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	20600+20501	844	24.25	25.20	1.245	0.09	0.371	0.462
	LTE Band 30_Ant 5	10M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	27710	2310	23.85	24.40	1.135	0.08	0.126	0.143
	LTE Band 30_Ant 5	10M	QPSK	25	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	27710	2310	22.89	23.40	1.125	0.01	0.120	0.135
	LTE Band 30_Ant 5	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	27710	2310	23.85	24.40	1.135	0.03	0.209	0.237
	LTE Band 30_Ant 5	10M	QPSK	25	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	27710	2310	22.89	23.40	1.125	-0.08	0.203	0.228
72	LTE Band 30_Ant 5	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	27710	2310	23.85	24.40	1.135	-0.09	0.240	0.272
	LTE Band 30_Ant 5	10M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	27710	2310	23.85	24.40	1.135	-0.08	0.194	0.220
	LTE Band 30_Ant 5	10M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	27710	2310	23.85	24.40	1.135	0.1	0.168	0.191
	LTE Band 30_Ant 5	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	27710	2310	23.85	24.40	1.135	-0.18	0.128	0.145
	LTE Band 30_Ant 5	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	27710	2310	23.85	24.40	1.135	0.1	0.206	0.234
	LTE Band 30_Ant 5	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	27710	2310	23.85	24.40	1.135	0.12	0.191	0.217
	LTE Band 30_Ant 5	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	27710	2310	23.85	24.40	1.135	0.08	0.197	0.224



FCC SAR TEST REPORT

Report No. : FA411111B

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Accessories	Wlan On / Off	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 41_Ant 5	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	41490	2680	23.79	24.50	1.178	62.9	1.006	0.01	0.001	0.001
	LTE Band 41_Ant 5	20M	QPSK	50	24	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	41490	2680	22.85	23.50	1.161	62.9	1.006	0.1	0.001	0.001
	LTE Band 41_Ant 5	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	41490	2680	23.79	24.50	1.178	62.9	1.006	-0.17	0.036	0.043
	LTE Band 41_Ant 5	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	41490	2680	22.85	23.50	1.161	62.9	1.006	0.04	0.035	0.041
73	LTE Band 41_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	41490	2680	23.79	24.50	1.178	62.9	1.006	-0.12	0.083	0.098
	LTE Band 41_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	41490	2680	23.79	24.50	1.178	62.9	1.006	0.01	0.033	0.039
	LTE Band 41_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	41490	2680	23.79	24.50	1.178	62.9	1.006	0.09	0.042	0.050
	LTE Band 41_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	41490	2680	23.79	24.50	1.178	62.9	1.006	-0.08	0.020	0.024
	LTE Band 41_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	41490	2680	23.79	24.50	1.178	62.9	1.006	-0.14	0.036	0.043
	LTE Band 41_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	41490	2680	23.79	24.50	1.178	62.9	1.006	0.07	0.041	0.049
	LTE Band 41_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	41490	2680	23.79	24.50	1.178	62.9	1.006	0.03	0.045	0.053
	LTE Band 41_HPUE_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	41490	2680	25.60	26.10	1.122	42.9	1.009	0.05	0.078	0.088
	LTE Band 38C_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	37901+38099	2585.1	23.42	24.50	1.282	62.9	1.006	0.09	0.066	0.085
	LTE Band 41C_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	41490+41292	2680	23.78	24.50	1.180	62.9	1.006	-0.11	0.079	0.094
	LTE Band 48_Ant 8	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	56640	3690	22.46	24.00	1.426	62.9	1.006	0.12	0.073	0.105
	LTE Band 48_Ant 8	20M	QPSK	50	50	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	56640	3690	21.51	23.00	1.409	62.9	1.006	0.03	0.062	0.088
	LTE Band 48_Ant 8	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	56640	3690	22.46	24.00	1.426	62.9	1.006	0.18	0.098	0.141
	LTE Band 48_Ant 8	20M	QPSK	50	50	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	56640	3690	21.51	23.00	1.409	62.9	1.006	0.16	0.081	0.115
	LTE Band 48_Ant 8	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	56640	3690	22.46	24.00	1.426	62.9	1.006	-0.03	0.145	0.208
	LTE Band 48_Ant 8	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	56640	3690	22.46	24.00	1.426	62.9	1.006	-0.1	0.111	0.159
	LTE Band 48_Ant 8	20M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	56640	3690	22.46	24.00	1.426	62.9	1.006	0.07	0.116	0.166
	LTE Band 48_Ant 8	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	56640	3690	22.46	24.00	1.426	62.9	1.006	0.18	0.101	0.145
	LTE Band 48_Ant 8	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	56640	3690	22.46	24.00	1.426	62.9	1.006	-0.1	0.143	0.205
	LTE Band 48_Ant 8	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	56640	3690	22.46	24.00	1.426	62.9	1.006	0.01	0.139	0.199
	LTE Band 48_Ant 8	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	56640	3690	22.46	24.00	1.426	62.9	1.006	-0.15	0.143	0.205
	LTE Band 48C_Ant 8	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	56640+56442	3690	22.45	24.00	1.429		1.000	0.02	0.139	0.199
	LTE Band 48_Ant 9	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	56640	3690	23.00	24.00	1.259	62.9	1.006	0.19	0.072	0.091
	LTE Band 48_Ant 9	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	56640	3690	21.84	23.00	1.306	62.9	1.006	0.07	0.063	0.083
	LTE Band 48_Ant 9	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.18	0.136	0.172
	LTE Band 48_Ant 9	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	56640	3690	21.84	23.00	1.306	62.9	1.006	0.03	0.106	0.139
74	LTE Band 48_Ant 9	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	56640	3690	23.00	24.00	1.259	62.9	1.006	0	0.362	0.458
	LTE Band 48_Ant 9	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.15	0.360	0.456
	LTE Band 48_Ant 9	20M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.15	0.343	0.434
	LTE Band 48_Ant 9	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	56640	3690	23.00	24.00	1.259	62.9	1.006	0.11	0.260	0.329
	LTE Band 48_Ant 9	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.08	0.361	0.457
	LTE Band 48_Ant 9	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.17	0.275	0.348
	LTE Band 48_Ant 9	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	56640	3690	23.00	24.00	1.259	62.9	1.006	-0.08	0.331	0.419



FCC SAR TEST REPORT

Report No. : FA41111B

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Accessories	Wlan On / Off	Power State	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_Ant 1	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	132322	1745	23.35	24.30	1.245	0.08	0.256	0.319
	LTE Band 66_Ant 1	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	132322	1745	22.36	23.30	1.242	0.01	0.205	0.255
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	132322	1745	23.35	24.30	1.245	0.03	0.635	0.790
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	132322	1745	22.36	23.30	1.242	0.1	0.506	0.628
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	132322	1745	23.35	24.30	1.245	-0.18	0.801	0.997
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	132072	1720	23.11	24.30	1.315	0.1	0.791	1.040
75	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	0.01	0.825	1.048
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	132322	1745	22.36	23.30	1.242	0.05	0.686	0.852
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	132072	1720	22.13	23.30	1.309	0.08	0.677	0.886
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	132572	1770	22.29	23.30	1.262	0.01	0.707	0.892
	LTE Band 66_Ant 1	20M	QPSK	100	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	132322	1745	22.32	23.30	1.253	-0.05	0.661	0.828
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	0.12	0.765	0.972
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	0.08	0.697	0.886
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	-0.17	0.579	0.736
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	-0.03	0.697	0.886
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	0.14	0.771	0.980
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	0.11	0.819	1.041
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan On	DSI 1	132322	1745	22.24	22.60	1.086	-0.05	0.582	0.632
	LTE Band 66B_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	132597+132504	1772.5	23.29	24.30	1.262	0.18	0.799	1.008
	LTE Band 66C_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	132572+132374	1770	23.34	24.30	1.247	0.1	0.819	1.022
	LTE Band 66B_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan On	DSI 1	132597+132504	1772.5	22.20	22.60	1.096	0.18	0.569	0.624
	LTE Band 66C_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan On	DSI 1	132572+132374	1770	22.22	22.60	1.091	0.1	0.573	0.625
	LTE Band 66_Ant 5	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	132572	1770	23.69	24.50	1.205	0.18	0.090	0.108
	LTE Band 66_Ant 5	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	132572	1770	23.66	24.00	1.081	0.14	0.061	0.066
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	132572	1770	23.69	24.50	1.205	-0.17	0.135	0.163
	LTE Band 66_Ant 5	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	132572	1770	23.66	24.00	1.081	0.17	0.108	0.117
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	132572	1770	23.69	24.50	1.205	-0.05	0.218	0.263
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	132572	1770	23.69	24.50	1.205	0.01	0.198	0.239
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	132572	1770	23.69	24.50	1.205	0.1	0.123	0.148
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	132572	1770	23.69	24.50	1.205	-0.17	0.108	0.130
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	132572	1770	23.69	24.50	1.205	0.04	0.173	0.208
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	132572	1770	23.69	24.50	1.205	-0.01	0.179	0.216
	LTE Band 66_Ant 5	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	132572	1770	23.69	24.50	1.205	-0.08	0.198	0.239
	LTE Band 71_Ant 1	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	133297	680.5	23.65	25.20	1.429	-0.03	0.182	0.260
	LTE Band 71_Ant 1	20M	QPSK	50	50	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	133297	680.5	22.69	24.20	1.416	-0.03	0.158	0.224
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	133297	680.5	23.65	25.20	1.429	0.08	0.303	0.433
	LTE Band 71_Ant 1	20M	QPSK	50	50	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	133297	680.5	22.69	24.20	1.416	-0.07	0.244	0.345
76	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	133297	680.5	23.65	25.20	1.429	-0.09	0.330	0.472
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	133297	680.5	23.65	25.20	1.429	-0.01	0.299	0.427
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	133297	680.5	23.65	25.20	1.429	0.12	0.294	0.420
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	133297	680.5	23.65	25.20	1.429	0.03	0.252	0.360
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	133297	680.5	23.65	25.20	1.429	0.18	0.282	0.403
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	133297	680.5	23.65	25.20	1.429	0.16	0.281	0.402
	LTE Band 71_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	133297	680.5	23.65	25.20	1.429	-0.1	0.290	0.414



FCC SAR TEST REPORT

Report No. : FA411111B

<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Accessories	Wlan On / Off	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n7_Ant 5	40M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	507000	2535	22.35	23.60	1.334	0.08	0.019	0.025
	FR1 n7_Ant 5	40M	BPSK	108	54	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	507000	2535	22.15	23.60	1.396	0.01	0.041	0.057
	FR1 n7_Ant 5	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	507000	2535	22.35	23.60	1.334	0.03	0.121	0.161
	FR1 n7_Ant 5	40M	BPSK	108	54	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	507000	2535	22.15	23.60	1.396	-0.08	0.109	0.152
77	FR1 n7_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	507000	2535	22.35	23.60	1.334	-0.04	0.135	0.180
	FR1 n7_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	507000	2535	22.35	23.60	1.334	-0.08	0.104	0.139
	FR1 n7_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	507000	2535	22.35	23.60	1.334	0.1	0.083	0.111
	FR1 n7_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	507000	2535	22.35	23.60	1.334	-0.18	0.068	0.091
	FR1 n7_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	507000	2535	22.35	23.60	1.334	0.1	0.107	0.143
	FR1 n7_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	507000	2535	22.35	23.60	1.334	0.12	0.128	0.171
	FR1 n7_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	507000	2535	22.35	23.60	1.334	0.08	0.134	0.179
	FR1 n12_Ant 1	15M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	141500	707.5	24.76	25.20	1.107	-0.17	0.223	0.247
	FR1 n12_Ant 1	15M	BPSK	36	22	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	141500	707.5	24.52	25.20	1.169	-0.03	0.217	0.254
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	141500	707.5	24.76	25.20	1.107	0.14	0.352	0.390
	FR1 n12_Ant 1	15M	BPSK	36	22	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	141500	707.5	24.52	25.20	1.169	0.11	0.326	0.381
78	FR1 n12_Ant 1	15M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	141500	707.5	24.76	25.20	1.107	-0.01	0.367	0.406
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	141500	707.5	24.76	25.20	1.107	-0.05	0.334	0.370
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	141500	707.5	24.76	25.20	1.107	0.18	0.287	0.318
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	141500	707.5	24.76	25.20	1.107	0.14	0.262	0.290
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	141500	707.5	24.76	25.20	1.107	-0.17	0.345	0.382
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	141500	707.5	24.76	25.20	1.107	0.17	0.333	0.369
	FR1 n12_Ant 1	15M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	141500	707.5	24.76	25.20	1.107	-0.05	0.352	0.390
	FR1 n13_Ant 1	10M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	156400	782	24.66	25.20	1.132	0.01	0.224	0.254
	FR1 n13_Ant 1	10M	BPSK	25	14	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	156400	782	24.50	25.20	1.175	0.1	0.228	0.268
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	156400	782	24.66	25.20	1.132	-0.17	0.300	0.340
	FR1 n13_Ant 1	10M	BPSK	25	14	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	156400	782	24.50	25.20	1.175	0.04	0.285	0.335
79	FR1 n13_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	156400	782	24.66	25.20	1.132	-0.03	0.307	0.348
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	156400	782	24.66	25.20	1.132	-0.01	0.257	0.291
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	156400	782	24.66	25.20	1.132	-0.08	0.260	0.294
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	156400	782	24.66	25.20	1.132	0.05	0.219	0.248
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	156400	782	24.66	25.20	1.132	0.06	0.294	0.333
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	156400	782	24.66	25.20	1.132	-0.09	0.282	0.319
	FR1 n13_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	156400	782	24.66	25.20	1.132	-0.08	0.286	0.324
	FR1 n14_Ant 1	10M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	158600	793	24.16	25.20	1.271	0.13	0.189	0.240
	FR1 n14_Ant 1	10M	BPSK	25	14	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	158600	793	24.09	25.20	1.291	0.12	0.168	0.217
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	158600	793	24.16	25.20	1.271	0.03	0.260	0.330
	FR1 n14_Ant 1	10M	BPSK	25	14	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	158600	793	24.09	25.20	1.291	0.18	0.228	0.294
80	FR1 n14_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	158600	793	24.16	25.20	1.271	0.03	0.295	0.375
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	158600	793	24.16	25.20	1.271	0.16	0.255	0.324
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	158600	793	24.16	25.20	1.271	-0.1	0.231	0.294
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	158600	793	24.16	25.20	1.271	0.07	0.189	0.240
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	158600	793	24.16	25.20	1.271	0.18	0.270	0.343
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	158600	793	24.16	25.20	1.271	-0.1	0.268	0.341
	FR1 n14_Ant 1	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	158600	793	24.16	25.20	1.271	0.01	0.263	0.334
	FR1 n25_Ant 1	40M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	0.08	0.330	0.354
	FR1 n25_Ant 1	40M	BPSK	108	54	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	376500	1882.5	24.67	25.20	1.130	0.01	0.289	0.327
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	0.03	0.475	0.509
	FR1 n25_Ant 1	40M	BPSK	108	54	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	376500	1882.5	24.67	25.20	1.130	-0.08	0.457	0.516
81	FR1 n25_Ant 1	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	0.02	1.070	1.147
	FR1 n25_Ant 1	40M	BPSK	108	54	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	376500	1882.5	24.67	25.20	1.130	0.12	1.010	1.141
	FR1 n25_Ant 1	40M	BPSK	216	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	376500	1882.5	24.19	24.70	1.125	0.08	0.977	1.099
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	-0.08	0.976	1.046
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	0.1	0.938	1.005



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	FR1 n25_Ant 1	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	-0.18	0.776	0.831
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	0.1	0.963	1.032
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	0.12	0.951	1.019
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	0.08	0.939	1.006
	FR1 n25_Ant 1	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan On	DSI 1	376500	1882.5	23.19	23.50	1.074	-0.04	0.493	0.529
	FR1 n25_Ant 5	40M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	376500	1882.5	23.53	24.20	1.167	-0.17	0.210	0.245
	FR1 n25_Ant 5	40M	BPSK	108	54	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	376500	1882.5	23.44	24.20	1.191	-0.03	0.270	0.322
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	376500	1882.5	23.53	24.20	1.167	0.14	0.341	0.398
	FR1 n25_Ant 5	40M	BPSK	108	54	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	376500	1882.5	23.44	24.20	1.191	0.11	0.318	0.379
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	376500	1882.5	23.53	24.20	1.167	0.05	0.524	0.611
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	376500	1882.5	23.53	24.20	1.167	0.18	0.503	0.587
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	376500	1882.5	23.53	24.20	1.167	0.14	0.481	0.561
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	376500	1882.5	23.53	24.20	1.167	-0.17	0.321	0.375
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	376500	1882.5	23.53	24.20	1.167	0.17	0.487	0.568
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	376500	1882.5	23.53	24.20	1.167	-0.05	0.489	0.571
	FR1 n25_Ant 5	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	376500	1882.5	23.53	24.20	1.167	0.01	0.511	0.596
	FR1 n26_Ant 1	20M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	166300	831.5	24.81	25.20	1.094	-0.15	0.257	0.281
	FR1 n26_Ant 1	20M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	166300	831.5	24.70	25.20	1.122	0.19	0.259	0.291
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	166300	831.5	24.81	25.20	1.094	0.07	0.350	0.383
	FR1 n26_Ant 1	20M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	166300	831.5	24.70	25.20	1.122	-0.18	0.333	0.374
82	FR1 n26_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	166300	831.5	24.81	25.20	1.094	-0.11	0.378	0.414
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	166300	831.5	24.81	25.20	1.094	0.03	0.365	0.399
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	166300	831.5	24.81	25.20	1.094	-0.15	0.376	0.411
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	166300	831.5	24.81	25.20	1.094	-0.15	0.335	0.366
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	166300	831.5	24.81	25.20	1.094	0.11	0.338	0.370
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	166300	831.5	24.81	25.20	1.094	-0.08	0.336	0.368
	FR1 n26_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	166300	831.5	24.81	25.20	1.094	-0.17	0.377	0.412
	FR1 n30_Ant 5	10M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	462000	2310	23.08	24.20	1.294	-0.03	0.183	0.237
	FR1 n30_Ant 5	10M	BPSK	25	14	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	462000	2310	23.02	24.20	1.312	0.14	0.189	0.248
	FR1 n30_Ant 5	10M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	462000	2310	23.08	24.20	1.294	0.11	0.289	0.374
	FR1 n30_Ant 5	10M	BPSK	25	14	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	462000	2310	23.02	24.20	1.312	-0.05	0.281	0.369
83	FR1 n30_Ant 5	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	462000	2310	23.08	24.20	1.294	-0.06	0.315	0.408
	FR1 n30_Ant 5	10M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	462000	2310	23.08	24.20	1.294	0.18	0.235	0.304
	FR1 n30_Ant 5	10M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	462000	2310	23.08	24.20	1.294	0.14	0.187	0.242
	FR1 n30_Ant 5	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	462000	2310	23.08	24.20	1.294	-0.17	0.167	0.216
	FR1 n30_Ant 5	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	462000	2310	23.08	24.20	1.294	0.17	0.297	0.384
	FR1 n30_Ant 5	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	462000	2310	23.08	24.20	1.294	-0.05	0.283	0.366
	FR1 n30_Ant 5	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	462000	2310	23.08	24.20	1.294	0.01	0.286	0.370
	FR1 n41_Ant 5	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	518598	2592.99	24.63	25.20	1.140	-0.17	0.003	0.003
	FR1 n41_Ant 5	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	518598	2592.99	23.61	25.20	1.442	-0.03	0.001	0.001
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	518598	2592.99	24.63	25.20	1.140	0.14	0.149	0.170
	FR1 n41_Ant 5	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	518598	2592.99	23.61	25.20	1.442	0.11	0.093	0.134
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	518598	2592.99	24.63	25.20	1.140	0.1	0.198	0.226
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	518598	2592.99	24.63	25.20	1.140	0.04	0.167	0.190
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	518598	2592.99	24.63	25.20	1.140	-0.01	0.163	0.186
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	518598	2592.99	24.63	25.20	1.140	-0.08	0.112	0.128
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	518598	2592.99	24.63	25.20	1.140	0.05	0.153	0.174
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	518598	2592.99	24.63	25.20	1.140	0.06	0.191	0.218
	FR1 n41_Ant 5	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	518598	2592.99	24.63	25.20	1.140	-0.09	0.187	0.213
	FR1 n41_HPUE_Ant 5	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	518598	2592.99	25.58	27.00	1.387	-0.08	0.134	0.186
	FR1 n41_Ant 2	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	518598	2592.99	21.55	22.00	1.109	0.1	0.044	0.049
	FR1 n41_Ant 2	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	518598	2592.99	21.43	22.00	1.140	-0.17	0.021	0.024
	FR1 n41_Ant 2	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	518598	2592.99	21.55	22.00	1.109	0.04	0.091	0.101
	FR1 n41_Ant 2	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	518598	2592.99	21.43	22.00	1.140	-0.01	0.054	0.062
	FR1 n41_Ant 2	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	518598	2592.99	21.55	22.00	1.109	-0.03	0.171	0.190
	FR1 n41_Ant 2	100M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	518598	2592.99	21.55	22.00	1.109	0.11	0.142	0.158



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Table with columns: FR1 n41_Ant 2, 100M, BPSK, 1, 1, Back, 0mm, Sample 5, Battery 1, Holster, Wlan Off, DSI 1, 518598, 2592.99, 21.55, 22.00, 1.109, -0.05, 0.168, 0.186, etc.



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	FR1 n66_Ant 1	20M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	349000	1745	23.45	24.00	1.135	-0.17	0.669	0.759
	FR1 n66_Ant 1	20M	BPSK	100	0	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	349000	1745	23.47	24.00	1.130	0.11	0.681	0.769
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	344000	1720	23.31	24.00	1.172	0.12	0.759	0.890
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	344000	1720	23.31	24.00	1.172	0.08	0.583	0.683
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	344000	1720	23.31	24.00	1.172	-0.17	0.514	0.603
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	344000	1720	23.31	24.00	1.172	-0.03	0.752	0.881
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	344000	1720	23.31	24.00	1.172	0.14	0.739	0.866
86	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	344000	1720	23.31	24.00	1.172	-0.11	0.780	0.914
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan On	DSI 1	349000	1745	20.86	22.30	1.393	-0.01	0.362	0.504
	FR1 n66_Ant 5	20M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	349000	1745	24.19	24.30	1.026	-0.17	0.121	0.124
	FR1 n66_Ant 5	20M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	349000	1745	23.84	24.30	1.112	-0.03	0.131	0.146
	FR1 n66_Ant 5	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	349000	1745	24.19	24.30	1.026	0.14	0.195	0.200
	FR1 n66_Ant 5	20M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	349000	1745	23.84	24.30	1.112	0.11	0.176	0.196
	FR1 n66_Ant 5	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	349000	1745	24.19	24.30	1.026	-0.08	0.204	0.209
	FR1 n66_Ant 5	20M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	349000	1745	24.19	24.30	1.026	-0.05	0.192	0.197
	FR1 n66_Ant 5	20M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	349000	1745	24.19	24.30	1.026	0.18	0.146	0.150
	FR1 n66_Ant 5	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	349000	1745	24.19	24.30	1.026	0.14	0.195	0.200
	FR1 n66_Ant 5	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	349000	1745	24.19	24.30	1.026	-0.17	0.161	0.165
	FR1 n66_Ant 5	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	349000	1745	24.19	24.30	1.026	0.17	0.192	0.197
	FR1 n66_Ant 5	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	349000	1745	24.19	24.30	1.026	-0.05	0.189	0.194
	FR1 n71_Ant 1	20M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	136100	680.5	24.75	25.20	1.109	-0.08	0.087	0.096
	FR1 n71_Ant 1	20M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	136100	680.5	24.58	25.20	1.153	-0.04	0.106	0.122
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	136100	680.5	24.75	25.20	1.109	-0.08	0.244	0.271
	FR1 n71_Ant 1	20M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	136100	680.5	24.58	25.20	1.153	0.17	0.230	0.265
87	FR1 n71_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	136100	680.5	24.75	25.20	1.109	-0.02	0.335	0.372
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	136100	680.5	24.75	25.20	1.109	0.18	0.318	0.353
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	136100	680.5	24.75	25.20	1.109	-0.04	0.277	0.307
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	136100	680.5	24.75	25.20	1.109	-0.08	0.232	0.257
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	136100	680.5	24.75	25.20	1.109	-0.13	0.293	0.325
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	136100	680.5	24.75	25.20	1.109	-0.13	0.280	0.311
	FR1 n71_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	136100	680.5	24.75	25.20	1.109	0.06	0.303	0.336
	FR1 n77_Ant 8	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	22.15	22.90	1.189	0.08	0.142	0.169
	FR1 n77_Ant 8	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	22.04	22.90	1.219	0.01	0.215	0.262
	FR1 n77_Ant 8	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	22.15	22.90	1.189	0.03	0.132	0.157
	FR1 n77_Ant 8	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	22.04	22.90	1.219	-0.08	0.208	0.254
	FR1 n77_Ant 8	100M	BPSK	135	69	Front	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	656000	3840	22.04	22.90	1.219	-0.06	0.277	0.338
	FR1 n77_Ant 8	100M	BPSK	135	69	Front	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	656000	3840	22.04	22.90	1.219	-0.08	0.190	0.232
	FR1 n77_Ant 8	100M	BPSK	135	69	Front	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	656000	3840	22.04	22.90	1.219	0.1	0.253	0.308
	FR1 n77_Ant 8	100M	BPSK	135	69	Front	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	656000	3840	22.04	22.90	1.219	-0.18	0.158	0.193
	FR1 n77_Ant 8	100M	BPSK	135	69	Front	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	656000	3840	22.04	22.90	1.219	0.1	0.273	0.333
	FR1 n77_Ant 8	100M	BPSK	135	69	Front	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	656000	3840	22.04	22.90	1.219	0.12	0.258	0.314
	FR1 n77_Ant 8	100M	BPSK	135	69	Front	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	656000	3840	22.04	22.90	1.219	0.08	0.276	0.336
	FR1 n77_HPUE_Ant 8	100M	BPSK	1	1	Front	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	656000	3840	25.04	25.90	1.219	-0.17	0.249	0.304
	FR1 n77_Ant 8	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	21.46	22.90	1.393	0.08	0.074	0.103
	FR1 n77_Ant 8	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	21.31	22.90	1.442	0.01	0.072	0.104
	FR1 n77_Ant 8	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	21.46	22.90	1.393	0.03	0.178	0.248
	FR1 n77_Ant 8	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	21.31	22.90	1.442	-0.08	0.175	0.252
	FR1 n77_Ant 8	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	633332	3499.98	21.31	22.90	1.442	-0.08	0.178	0.257
	FR1 n77_Ant 8	100M	BPSK	135	69	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	633332	3499.98	21.31	22.90	1.442	0.1	0.143	0.206
	FR1 n77_Ant 8	100M	BPSK	135	69	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	633332	3499.98	21.31	22.90	1.442	-0.18	0.153	0.221
	FR1 n77_Ant 8	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	633332	3499.98	21.31	22.90	1.442	0.1	0.166	0.239
	FR1 n77_Ant 8	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	633332	3499.98	21.31	22.90	1.442	0.09	0.213	0.307
	FR1 n77_Ant 8	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	633332	3499.98	21.31	22.90	1.442	0.12	0.177	0.255
	FR1 n77_Ant 8	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	633332	3499.98	21.31	22.90	1.442	0.08	0.163	0.235
	FR1 n77_HPUE_Ant 8	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	633332	3499.98	25.48	25.90	1.102	-0.17	0.267	0.294
	FR1 n77_Ant 8	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	21.58	22.00	1.102	-0.03	0.051	0.056



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FR1 n77_Ant 8	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	21.48	22.00	1.127	0.14	0.049	0.055
FR1 n77_Ant 8	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	21.58	22.00	1.102	0.11	0.135	0.149
FR1 n77_Ant 8	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	21.48	22.00	1.127	-0.05	0.122	0.138
FR1 n77_Ant 8	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	21.58	22.00	1.102	0.18	0.141	0.155
FR1 n77_Ant 8	100M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	21.58	22.00	1.102	0.14	0.138	0.152
FR1 n77_Ant 8	100M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	21.58	22.00	1.102	-0.17	0.117	0.129
FR1 n77_Ant 8	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	641666	3624.99	21.58	22.00	1.102	0.17	0.096	0.106
FR1 n77_Ant 8	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	641666	3624.99	21.58	22.00	1.102	-0.05	0.142	0.156
FR1 n77_Ant 8	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	641666	3624.99	21.58	22.00	1.102	0.01	0.139	0.153
FR1 n77_Ant 8	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	641666	3624.99	21.58	22.00	1.102	0.1	0.110	0.121
FR1 n77_Ant 9	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	19.36	20.80	1.393	0.18	0.072	0.100
FR1 n77_Ant 9	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	19.08	20.80	1.486	-0.04	0.075	0.111
FR1 n77_Ant 9	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	19.36	20.80	1.393	-0.08	0.163	0.227
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	19.08	20.80	1.486	-0.1	0.220	0.327
FR1 n77_Ant 9	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	656000	3840	19.08	20.80	1.486	-0.17	0.205	0.305
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 3	Battery 1	-	Wlan Off	DSI 1	656000	3840	19.08	20.80	1.486	-0.13	0.148	0.220
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 5	Battery 1	-	Wlan Off	DSI 1	656000	3840	19.08	20.80	1.486	-0.13	0.204	0.303
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 2	-	Wlan Off	DSI 1	656000	3840	19.08	20.80	1.486	0.06	0.121	0.180
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 3	-	Wlan Off	DSI 1	656000	3840	19.08	20.80	1.486	-0.03	0.199	0.296
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 4	-	Wlan Off	DSI 1	656000	3840	19.08	20.80	1.486	-0.03	0.208	0.309
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 5	-	Wlan Off	DSI 1	656000	3840	19.08	20.80	1.486	0.08	0.206	0.306
FR1 n77_Ant 9	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	19.39	20.80	1.384	-0.18	0.078	0.108
FR1 n77_Ant 9	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	19.28	20.80	1.419	0.03	0.075	0.106
FR1 n77_Ant 9	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	19.39	20.80	1.384	-0.15	0.178	0.246
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	19.28	20.80	1.419	-0.15	0.187	0.265
FR1 n77_Ant 9	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	633332	3499.98	19.28	20.80	1.419	0.08	0.155	0.220
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 3	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	19.28	20.80	1.419	0.08	0.181	0.257
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 5	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	19.28	20.80	1.419	-0.17	0.164	0.233
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 2	-	Wlan Off	DSI 1	633332	3499.98	19.28	20.80	1.419	-0.08	0.126	0.179
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 3	-	Wlan Off	DSI 1	633332	3499.98	19.28	20.80	1.419	-0.04	0.176	0.250
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 4	-	Wlan Off	DSI 1	633332	3499.98	19.28	20.80	1.419	-0.08	0.174	0.247
FR1 n77_Ant 9	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 5	-	Wlan Off	DSI 1	633332	3499.98	19.28	20.80	1.419	0.17	0.171	0.243
FR1 n77_Ant 9	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	19.17	20.80	1.455	0.08	0.063	0.092
FR1 n77_Ant 9	100M	BPSK	135	138	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	19.42	20.80	1.374	0.01	0.053	0.073
FR1 n77_Ant 9	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	19.17	20.80	1.455	0.03	0.143	0.208
FR1 n77_Ant 9	100M	BPSK	135	138	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	19.42	20.80	1.374	-0.08	0.136	0.187
FR1 n77_Ant 9	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	19.17	20.80	1.455	-0.08	0.175	0.255
FR1 n77_Ant 9	100M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	19.17	20.80	1.455	0.1	0.172	0.250
FR1 n77_Ant 9	100M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	19.17	20.80	1.455	-0.18	0.172	0.250
FR1 n77_Ant 9	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	641666	3624.99	19.17	20.80	1.455	0.1	0.101	0.147
FR1 n77_Ant 9	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	641666	3624.99	19.17	20.80	1.455	0.12	0.134	0.195
FR1 n77_Ant 9	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	641666	3624.99	19.17	20.80	1.455	-0.02	0.179	0.261
FR1 n77_Ant 9	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	641666	3624.99	19.17	20.80	1.455	0.08	0.177	0.258
FR1 n77_Ant 4	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	21.44	22.00	1.138	0.1	0.062	0.071
FR1 n77_Ant 4	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	21.53	22.00	1.114	-0.17	0.068	0.076
FR1 n77_Ant 4	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	21.44	22.00	1.138	0.04	0.254	0.289
FR1 n77_Ant 4	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	21.53	22.00	1.114	-0.01	0.274	0.305
FR1 n77_Ant 4	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	656000	3840	21.53	22.00	1.114	-0.08	0.363	0.404
FR1 n77_Ant 4	100M	BPSK	135	69	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	656000	3840	21.53	22.00	1.114	0.05	0.242	0.270
FR1 n77_Ant 4	100M	BPSK	135	69	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	656000	3840	21.53	22.00	1.114	0.06	0.317	0.353
FR1 n77_Ant 4	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	656000	3840	21.53	22.00	1.114	-0.09	0.174	0.194
FR1 n77_Ant 4	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	656000	3840	21.53	22.00	1.114	-0.08	0.228	0.254
FR1 n77_Ant 4	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	656000	3840	21.53	22.00	1.114	0.13	0.295	0.329
FR1 n77_Ant 4	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	656000	3840	21.53	22.00	1.114	0.12	0.323	0.360
FR1 n77_Ant 4	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	20.91	22.00	1.285	-0.17	0.055	0.071
FR1 n77_Ant 4	100M	BPSK	135	0	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	20.77	22.00	1.327	-0.03	0.058	0.077



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	FR1 n77_Ant 4	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	20.91	22.00	1.285	0.14	0.358	0.460
	FR1 n77_Ant 4	100M	BPSK	135	0	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	20.77	22.00	1.327	0.11	0.310	0.411
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	633332	3499.98	20.91	22.00	1.285	-0.09	0.377	0.485
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	633332	3499.98	20.91	22.00	1.285	0.18	0.257	0.330
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	633332	3499.98	20.91	22.00	1.285	0.14	0.290	0.373
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	633332	3499.98	20.91	22.00	1.285	-0.17	0.222	0.285
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	633332	3499.98	20.91	22.00	1.285	0.17	0.317	0.407
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	633332	3499.98	20.91	22.00	1.285	-0.05	0.347	0.446
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	633332	3499.98	20.91	22.00	1.285	0.01	0.358	0.460
	FR1 n77_Ant 4	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	21.01	22.00	1.256	-0.03	0.065	0.082
	FR1 n77_Ant 4	100M	BPSK	135	138	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	20.89	22.00	1.291	0.14	0.057	0.074
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	21.01	22.00	1.256	0.11	0.279	0.350
	FR1 n77_Ant 4	100M	BPSK	135	138	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	20.89	22.00	1.291	-0.05	0.270	0.349
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	21.01	22.00	1.256	0.18	0.280	0.352
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	21.01	22.00	1.256	0.14	0.207	0.260
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	21.01	22.00	1.256	-0.17	0.270	0.339
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	641666	3624.99	21.01	22.00	1.256	0.17	0.200	0.251
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	641666	3624.99	21.01	22.00	1.256	-0.05	0.276	0.347
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	641666	3624.99	21.01	22.00	1.256	0.01	0.261	0.328
	FR1 n77_Ant 4	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	641666	3624.99	21.01	22.00	1.256	-0.09	0.307	0.386
	FR1 n77_Ant 3	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	21.08	22.00	1.236	0.03	0.039	0.048
	FR1 n77_Ant 3	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	20.92	22.00	1.282	0.18	0.042	0.054
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	21.08	22.00	1.236	0.16	0.354	0.438
88	FR1 n77_Ant 3	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	656000	3840	20.92	22.00	1.282	-0.1	0.397	0.509
	FR1 n77_Ant 3	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	656000	3840	20.92	22.00	1.282	-0.17	0.250	0.321
	FR1 n77_Ant 3	100M	BPSK	135	69	Back	15mm	Sample 3	Battery 1	-	Wlan Off	DSI 1	656000	3840	20.92	22.00	1.282	0.18	0.347	0.445
	FR1 n77_Ant 3	100M	BPSK	135	69	Back	15mm	Sample 5	Battery 1	-	Wlan Off	DSI 1	656000	3840	20.92	22.00	1.282	-0.1	0.338	0.433
	FR1 n77_Ant 3	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 2	-	Wlan Off	DSI 1	656000	3840	20.92	22.00	1.282	0.01	0.176	0.226
	FR1 n77_Ant 3	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 3	-	Wlan Off	DSI 1	656000	3840	20.92	22.00	1.282	-0.15	0.259	0.332
	FR1 n77_Ant 3	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 4	-	Wlan Off	DSI 1	656000	3840	20.92	22.00	1.282	0.19	0.286	0.367
	FR1 n77_Ant 3	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 5	-	Wlan Off	DSI 1	656000	3840	20.92	22.00	1.282	0.07	0.304	0.390
	FR1 n77_Ant 3	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	20.62	22.00	1.374	-0.17	0.082	0.113
	FR1 n77_Ant 3	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	20.45	22.00	1.429	0.04	0.077	0.110
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	20.62	22.00	1.374	-0.01	0.168	0.231
	FR1 n77_Ant 3	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	20.45	22.00	1.429	-0.08	0.158	0.226
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	633332	3499.98	20.62	22.00	1.374	-0.15	0.158	0.217
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	15mm	Sample 3	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	20.62	22.00	1.374	0.06	0.174	0.239
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	15mm	Sample 5	Battery 1	-	Wlan Off	DSI 1	633332	3499.98	20.62	22.00	1.374	-0.09	0.181	0.249
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	15mm	Sample 5	Battery 2	-	Wlan Off	DSI 1	633332	3499.98	20.62	22.00	1.374	-0.08	0.119	0.164
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	15mm	Sample 5	Battery 3	-	Wlan Off	DSI 1	633332	3499.98	20.62	22.00	1.374	0.13	0.153	0.210
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	15mm	Sample 5	Battery 4	-	Wlan Off	DSI 1	633332	3499.98	20.62	22.00	1.374	0.12	0.182	0.250
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	15mm	Sample 5	Battery 5	-	Wlan Off	DSI 1	633332	3499.98	20.62	22.00	1.374	0.03	0.179	0.246
	FR1 n77_Ant 3	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	20.23	22.00	1.503	0.08	0.108	0.162
	FR1 n77_Ant 3	100M	BPSK	135	138	Front	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	20.67	22.00	1.358	0.01	0.101	0.137
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	20.23	22.00	1.503	0.03	0.158	0.237
	FR1 n77_Ant 3	100M	BPSK	135	138	Back	15mm	Sample 1	Battery 1	-	Wlan Off	DSI 1	641666	3624.99	20.67	22.00	1.358	-0.08	0.149	0.202
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	20.23	22.00	1.503	-0.08	0.161	0.242
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	20.23	22.00	1.503	0.1	0.118	0.177
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Holster	Wlan Off	DSI 1	641666	3624.99	20.23	22.00	1.503	-0.18	0.157	0.236
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Holster	Wlan Off	DSI 1	641666	3624.99	20.23	22.00	1.503	0.1	0.117	0.176
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Holster	Wlan Off	DSI 1	641666	3624.99	20.23	22.00	1.503	0.12	0.160	0.241
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Holster	Wlan Off	DSI 1	641666	3624.99	20.23	22.00	1.503	0.08	0.156	0.234
	FR1 n77_Ant 3	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Holster	Wlan Off	DSI 1	641666	3624.99	20.23	22.00	1.503	0.04	0.162	0.244



<WLAN SAR>

Table with 20 columns: Plot No., Band, Mode, Test Position, Gap (mm), Antenna, Sample, Battery, Accessories, Power Status, Non-DBS / DBS, 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 WLAN2.4GHz and WLAN5GHz configurations.



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92	WLAN5GHz	802.11ac-VHT80 MCS0	Front	15mm	Ant 6+7(6)	Sample 1	Battery 1	-	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	-0.03	0.237	0.316
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+7(6)	Sample 1	Battery 1	-	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	-0.1	0.554	0.738
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Sample 1	Battery 1	Holster	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	0.14	0.410	0.547
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+7(6)	Sample 3	Battery 1	-	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	0.05	0.532	0.709
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+7(6)	Sample 5	Battery 1	-	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	0.06	0.529	0.705
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+7(6)	Sample 1	Battery 2	-	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	-0.09	0.535	0.713
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+7(6)	Sample 1	Battery 3	-	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	-0.08	0.541	0.721
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+7(6)	Sample 1	Battery 4	-	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	0.13	0.545	0.726
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+7(6)	Sample 1	Battery 5	-	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	0.12	0.539	0.718
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	15mm	Ant 6+7(6)	Sample 1	Battery 1	-	Power table 3	DBS	155	5775	15.30	15.50	1.047	86.15	1.161	0.06	0.251	0.305
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Sample 1	Battery 1	Holster	Power table 3	DBS	155	5775	15.30	15.50	1.047	86.15	1.161	0.07	0.182	0.221

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	Accessories	Power Status	Non-DBS / DBS	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m ²)	Reported APD (W/m ²)
93	WLAN6GHz	802.11ax-HE160 MCS0	Front	15mm	Ant 6+7(7)	Sample 1	Battery 1	-	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0.03	0.050	0.064	0.260	0.332
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(7)	Sample 1	Battery 1	-	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	-0.01	0.155	0.198	1.290	1.649
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(6)	Sample 1	Battery 1	-	Power table 3	Non-DBS	15	6025	9.10	9.50	1.096	85.76	1.166	-0.01	0.077	0.098	0.580	0.742
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(7)	Sample 1	Battery 1	-	Power table 3	Non-DBS	47	6185	8.35	9.50	1.303	85.76	1.166	0.08	0.090	0.137	0.700	1.064
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(7)	Sample 1	Battery 1	-	Power table 3	Non-DBS	143	6665	9.90	10.00	1.023	85.76	1.166	-0.12	0.096	0.115	0.950	1.134
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(7)	Sample 1	Battery 1	-	Power table 3	Non-DBS	207	6985	9.90	11.00	1.288	85.76	1.166	0.07	0.089	0.134	0.680	1.021
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 6+7(7)	Sample 1	Battery 1	Holster	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0.04	0.091	0.116	0.950	1.215
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(7)	Sample 3	Battery 1	-	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	-0.02	0.108	0.138	0.608	0.777
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(7)	Sample 5	Battery 1	-	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	-0.11	0.090	0.115	0.855	1.093
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(7)	Sample 1	Battery 2	-	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	-0.15	0.089	0.114	1.010	1.291
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(7)	Sample 1	Battery 3	-	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0.08	0.091	0.116	1.050	1.342
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(7)	Sample 1	Battery 4	-	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0.07	0.102	0.130	1.220	1.560
	WLAN6GHz	802.11ax-HE160 MCS0	Back	15mm	Ant 6+7(7)	Sample 1	Battery 5	-	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0.04	0.146	0.187	1.180	1.509

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	Accessories	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)
94	Bluetooth	1Mbps	Front	15mm	Ant 6	Sample 1	Battery 1	-	0	2402	5.98	6.50	1.127	76.86	1.084	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 6	Sample 1	Battery 1	-	0	2402	5.98	6.50	1.127	76.86	1.084	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	0mm	Ant 6	Sample 1	Battery 1	Holster	0	2402	5.98	6.50	1.127	76.86	1.084	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 6	Sample 3	Battery 1	-	0	2402	5.98	6.50	1.127	76.86	1.084	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 6	Sample 5	Battery 1	-	0	2402	5.98	6.50	1.127	76.86	1.084	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 6	Sample 1	Battery 2	-	0	2402	5.98	6.50	1.127	76.86	1.084	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 6	Sample 1	Battery 3	-	0	2402	5.98	6.50	1.127	76.86	1.084	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 6	Sample 1	Battery 4	-	0	2402	5.98	6.50	1.127	76.86	1.084	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 6	Sample 1	Battery 5	-	0	2402	5.98	6.50	1.127	76.86	1.084	0	<0.001	<0.001
	Bluetooth	1Mbps	Front	15mm	Ant 7	Sample 1	Battery 1	-	39	2441	6.45	6.50	1.012	76.80	1.085	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 7	Sample 1	Battery 1	-	39	2441	6.45	6.50	1.012	76.80	1.085	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	0mm	Ant 7	Sample 1	Battery 1	Holster	39	2441	6.45	6.50	1.012	76.80	1.085	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 7	Sample 3	Battery 1	-	39	2441	6.45	6.50	1.012	76.80	1.085	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 7	Sample 5	Battery 1	-	39	2441	6.45	6.50	1.012	76.80	1.085	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 7	Sample 1	Battery 2	-	39	2441	6.45	6.50	1.012	76.80	1.085	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 7	Sample 1	Battery 3	-	39	2441	6.45	6.50	1.012	76.80	1.085	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 7	Sample 1	Battery 4	-	39	2441	6.45	6.50	1.012	76.80	1.085	0	<0.001	<0.001
	Bluetooth	1Mbps	Back	15mm	Ant 7	Sample 1	Battery 5	-	39	2441	6.45	6.50	1.012	76.80	1.085	0	<0.001	<0.001



13.4 Product Specific SAR

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	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)
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	1513	1752.6	24.44	25.00	1.138	0.08	2.000	2.275
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	-0.07	1.760	2.111
95	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	0.1	2.000	2.280
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 3	Battery 1	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	0.03	1.980	2.258
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 5	Battery 1	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	-0.16	1.790	2.041
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 2	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	-0.02	1.430	1.631
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 3	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	0.15	1.910	2.178
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 4	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	-0.09	1.700	1.938
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 5	Wlan Off	DSI 1	1413	1732.6	24.43	25.00	1.140	0.11	1.890	2.155
	WCDMA IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Wlan On	DSI 1	1513	1752.6	22.53	23.20	1.167	-0.19	1.310	1.529

<LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	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)
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	132322	1745	23.35	24.30	1.245	0.03	2.020	2.514
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	132072	1720	23.11	24.30	1.315	-0.08	1.850	2.433
96	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	-0.18	1.990	2.528
	LTE Band 66_Ant 1	20M	QPSK	50	0	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	132322	1745	22.36	23.30	1.242	-0.08	1.530	1.900
	LTE Band 66_Ant 1	20M	QPSK	100	0	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	132322	1745	22.32	23.30	1.253	-0.17	1.480	1.855
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	-0.03	1.940	2.465
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 5	Battery 1	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	0.14	1.460	1.855
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 2	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	0.11	1.330	1.690
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 3	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	-0.05	1.970	2.503
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 4	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	0.18	1.740	2.211
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 5	Wlan Off	DSI 1	132572	1770	23.26	24.30	1.271	0.14	1.940	2.465
	LTE Band 66_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Wlan On	DSI 1	132572	1770	22.18	22.60	1.102	-0.01	1.220	1.344
	LTE Band 66B_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	132597+132504	1772.5	23.29	24.30	1.262	0.03	1.810	2.284
	LTE Band 66C_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	132572+132374	1770	23.34	24.30	1.247	-0.08	1.930	2.407
	LTE Band 66B_Ant 1	15M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Wlan On	DSI 1	132597+132504	1772.5	22.20	22.60	1.096	0.12	1.110	1.217
	LTE Band 66C_Ant 1	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Wlan On	DSI 1	132572+132374	1770	22.22	22.60	1.091	0.04	1.150	1.255



FCC SAR TEST REPORT

Report No. : FA411111B

<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	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)
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	349000	1745	23.49	24.00	1.125	-0.11	1.900	2.137
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	344000	1720	23.31	24.00	1.172	-0.12	1.890	2.215
97	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	354000	1770	23.39	24.00	1.151	0.18	2.120	2.440
	FR1 n66_Ant 1	20M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	349000	1745	23.45	24.00	1.135	0.03	1.830	2.077
	FR1 n66_Ant 1	20M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	344000	1720	23.29	24.00	1.178	-0.16	1.730	2.037
	FR1 n66_Ant 1	20M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	354000	1770	23.31	24.00	1.172	-0.02	1.620	1.899
	FR1 n66_Ant 1	20M	BPSK	100	0	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	349000	1745	23.47	24.00	1.130	0.15	1.820	2.056
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Wlan Off	DSI 1	354000	1770	23.39	24.00	1.151	-0.03	1.910	2.198
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 5	Battery 1	Wlan Off	DSI 1	354000	1770	23.39	24.00	1.151	0.07	1.550	1.784
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 2	Wlan Off	DSI 1	354000	1770	23.39	24.00	1.151	0	1.350	1.554
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 3	Wlan Off	DSI 1	354000	1770	23.39	24.00	1.151	0.01	1.950	2.244
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 4	Wlan Off	DSI 1	354000	1770	23.39	24.00	1.151	-0.01	1.760	2.025
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 5	Wlan Off	DSI 1	354000	1770	23.39	24.00	1.151	-0.06	2.000	2.302
	FR1 n66_Ant 1	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Wlan On	DSI 1	349000	1745	20.86	22.30	1.393	-0.02	0.654	0.911
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	656000	3840	19.36	20.80	1.393	0.06	1.890	2.633
	FR1 n77_Ant 9	100M	BPSK	135	69	Left side	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	656000	3840	19.08	20.80	1.486	-0.09	1.740	2.586
	FR1 n77_Ant 9	100M	BPSK	270	0	Left side	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	656000	3840	19.06	20.80	1.493	-0.08	1.710	2.553
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	0mm	Sample 3	Battery 1	Wlan Off	DSI 1	656000	3840	19.36	20.80	1.393	-0.1	1.400	1.950
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	0mm	Sample 5	Battery 1	Wlan Off	DSI 1	656000	3840	19.36	20.80	1.393	0.07	1.280	1.783
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	0mm	Sample 1	Battery 2	Wlan Off	DSI 1	656000	3840	19.36	20.80	1.393	0.18	1.540	2.145
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	0mm	Sample 1	Battery 3	Wlan Off	DSI 1	656000	3840	19.36	20.80	1.393	-0.1	1.770	2.466
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	0mm	Sample 1	Battery 4	Wlan Off	DSI 1	656000	3840	19.36	20.80	1.393	0.01	1.860	2.591
	FR1 n77_Ant 9	100M	BPSK	1	1	Left side	0mm	Sample 1	Battery 5	Wlan Off	DSI 1	656000	3840	19.36	20.80	1.393	-0.15	1.620	2.257
	FR1 n77_Ant 4	100M	BPSK	1	1	Right side	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	633332	3499.98	20.91	22.00	1.285	-0.08	2.240	2.879
98	FR1 n77_Ant 4	100M	BPSK	135	0	Right side	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	633332	3499.98	20.77	22.00	1.327	-0.06	2.250	2.987
	FR1 n77_Ant 4	100M	BPSK	270	0	Right side	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	633332	3499.98	20.74	22.00	1.337	0.05	2.210	2.954
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	0mm	Sample 3	Battery 1	Wlan Off	DSI 1	633332	3499.98	20.75	22.00	1.334	-0.08	1.570	2.094
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	0mm	Sample 5	Battery 1	Wlan Off	DSI 1	633332	3499.98	20.75	22.00	1.334	0.13	1.870	2.494
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	0mm	Sample 1	Battery 2	Wlan Off	DSI 1	633332	3499.98	20.75	22.00	1.334	0.12	2.030	2.707
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	0mm	Sample 1	Battery 3	Wlan Off	DSI 1	633332	3499.98	20.75	22.00	1.334	0.03	2.160	2.880
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	0mm	Sample 1	Battery 4	Wlan Off	DSI 1	633332	3499.98	20.75	22.00	1.334	0.18	2.130	2.840
	FR1 n77_Ant 4	100M	BPSK	135	69	Right side	0mm	Sample 1	Battery 5	Wlan Off	DSI 1	633332	3499.98	20.75	22.00	1.334	0.16	2.080	2.774



<WLAN SAR>

Table with 19 columns: Plot No., Band, Mode, Test Position, Gap (mm), Antenna, Sample, Battery, Power Status, Non-DBS / DBS, 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). Rows include test data for WLAN5GHz and WLAN5GHz across various modes and positions.



FCC SAR TEST REPORT

Report No. : FA411111B

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	Power Status	Non-DBS / DBS	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m ²)	Reported APD (W/m ²)
	WLAN6GHz	802.11ax-HE160 MCS0	Front	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	-0.17	0.028	0.036	0.770	0.984
	WLAN6GHz	802.11ax-HE160 MCS0	Back	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	-0.04	0.147	0.188	4.100	5.242
	WLAN6GHz	802.11ax-HE160 MCS0	Left Side	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	-0.05	0.162	0.207	4.510	5.766
102	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0.13	0.430	0.550	10.400	13.296
	WLAN6GHz	802.11ax-HE160 MCS0	Top Side	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0	0.021	0.027	0.578	0.739
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 3	Non-DBS	15	6025	9.10	9.50	1.096	85.76	1.166	-0.12	0.259	0.331	6.320	8.080
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	47	6185	8.35	9.50	1.303	85.76	1.166	-0.13	0.230	0.349	7.990	12.141
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	143	6665	9.90	10.00	1.023	85.76	1.166	-0.01	0.247	0.295	10.710	12.779
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	207	6985	9.90	11.00	1.288	85.76	1.166	-0.09	0.232	0.348	7.650	11.491
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 3	Battery 1	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0.05	0.206	0.263	8.930	11.417
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 5	Battery 1	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0.02	0.253	0.323	9.810	12.542
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 1	Battery 2	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	-0.13	0.243	0.311	9.540	12.197
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 1	Battery 3	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0.17	0.226	0.289	9.780	12.504
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 1	Battery 4	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0.06	0.215	0.275	9.350	11.954
	WLAN6GHz	802.11ax-HE160 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 1	Battery 5	Power table 3	Non-DBS	111	6505	11.10	11.50	1.096	85.76	1.166	0	0.241	0.308	9.470	12.107

<NFC SAR>

Plot No.	Band	Test Position	Gap (mm)	Sample	Battery	Freq. (MHz)	Power Drift (dB)	Measured 10g SAR (W/kg)
103	NFC	Front	0mm	Sample 1	Battery 1	13.56	0	<0.001
	NFC	Back	0mm	Sample 1	Battery 1	13.56	0	<0.001
	NFC	Left Side	0mm	Sample 1	Battery 1	13.56	0	<0.001
	NFC	Right Side	0mm	Sample 1	Battery 1	13.56	0	<0.001
	NFC	Top Side	0mm	Sample 1	Battery 1	13.56	0	<0.001
	NFC	Front	0mm	Sample 3	Battery 1	13.56	0	<0.001
	NFC	Front	0mm	Sample 5	Battery 1	13.56	0	<0.001
	NFC	Front	0mm	Sample 1	Battery 2	13.56	0	<0.001
	NFC	Front	0mm	Sample 1	Battery 3	13.56	0	<0.001
	NFC	Front	0mm	Sample 1	Battery 4	13.56	0	<0.001
	NFC	Front	0mm	Sample 1	Battery 5	13.56	0	<0.001



13.5 6GHz PD Test Result

Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	Power Status	Non-DBS /DBS	Ch.	Freq. (MHz)	Battery	Average Power (dBm)	Grid Step (A)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m^2)	Total psPD (W/m^2)
WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7	Sample 1	Battery 1	Power table 1	Non-DBS	15	6025	Battery 1	15.60	0.0625	3.65	0.219633897	1.840	2.030
WLAN6GHZ	802.11ax-HE160 MCS0	Front	10mm	Ant 6+7	Sample 1	Battery 1	Power table 1	Non-DBS	15	6025	Battery 1	15.60	0.25	3.47		1.570	1.800
WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7	Sample 1	Battery 1	Power table 1	Non-DBS	207	6985	Battery 1	12.30	0.0625	4.04	0.142046077	1.890	2.240
WLAN6GHZ	802.11ax-HE160 MCS0	Front	8.59mm	Ant 6+7	Sample 1	Battery 1	Power table 1	Non-DBS	207	6985	Battery 1	12.30	0.25	3.91		1.010	1.210

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	Power Status	Non-DBS /DBS	Ch.	Freq. (MHz)	Battery	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (A)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m^2)	Scaled Normal psPD (W/m^2)	Total psPD (W/m^2)	Scaled Total psPD (W/m^2)
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	15	6025	Battery 1	15.60	17.00	1.380	85.76	1.166	0.0625	1.5535	-0.11	1.840	4.601	2.030	5.076
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	47	6185	Battery 1	15.90	17.00	1.288	85.76	1.166	0.0625	1.5535	-0.03	2.750	6.417	3.100	7.234
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 1	Non-DBS	111	6505	Battery 1	12.10	12.50	1.096	85.76	1.166	0.0625	1.5535	-0.15	0.847	1.682	0.882	1.752
104	WLAN6GHZ	802.11a 6Mbps	Front	2mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 1	Non-DBS	173	6815	Battery 1	17.50	18.50	1.259	86.00	1.163	0.0625	1.5535	-0.06	2.780	6.323	3.290	7.483
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 1	Non-DBS	207	6985	Battery 1	12.30	12.50	1.047	85.76	1.166	0.0625	1.5535	0.08	1.890	3.585	2.240	4.249
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7	Sample 2	Battery 1	Power table 1	Non-DBS	173	6815	Battery 1	17.50	18.50	1.259	85.76	1.166	0.0625	1.5535	-0.12	2.560	5.838	3.030	6.910
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7	Sample 3	Battery 1	Power table 1	Non-DBS	173	6815	Battery 1	17.50	18.50	1.259	85.76	1.166	0.0625	1.5535	-0.08	2.440	5.564	2.900	6.613
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7	Sample 1	Battery 2	Power table 1	Non-DBS	173	6815	Battery 2	17.50	18.50	1.259	85.76	1.166	0.0625	1.5535	-0.16	2.490	5.678	2.960	6.750
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7	Sample 1	Battery 3	Power table 1	Non-DBS	173	6815	Battery 3	17.50	18.50	1.259	85.76	1.166	0.0625	1.5535	-0.07	2.610	5.952	3.100	7.069
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7	Sample 1	Battery 4	Power table 1	Non-DBS	173	6815	Battery 4	17.50	18.50	1.259	85.76	1.166	0.0625	1.5535	0.17	2.520	5.747	2.990	6.818
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7	Sample 1	Battery 5	Power table 1	Non-DBS	173	6815	Battery 5	17.50	18.50	1.259	85.76	1.166	0.0625	1.5535	0.05	2.450	5.587	2.910	6.636
	WLAN6GHZ	802.11ax-HE160 MCS0	Front	2mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	111	6505	Battery 1	11.10	11.50	1.096	85.76	1.166	0.0625	1.5535	-0.12	0.170	0.338	0.200	0.397
	WLAN6GHZ	802.11ax-HE160 MCS0	Back	2mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	111	6505	Battery 1	11.10	11.50	1.096	85.76	1.166	0.0625	1.5535	-0.08	0.760	1.509	0.820	1.629
	WLAN6GHZ	802.11ax-HE160 MCS0	Left Side	2mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	111	6505	Battery 1	11.10	11.50	1.096	85.76	1.166	0.0625	1.5535	-0.01	0.840	1.668	0.890	1.768
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 3	Non-DBS	15	6025	Battery 1	9.10	9.50	1.096	85.76	1.166	0.0625	1.5535	-0.02	3.080	6.117	3.210	6.376
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	47	6185	Battery 1	8.35	9.50	1.303	85.76	1.166	0.0625	1.5535	-0.12	2.780	6.562	3.150	7.436
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	111	6505	Battery 1	11.10	11.50	1.096	85.76	1.166	0.0625	1.5535	0.08	2.840	5.641	3.400	6.753
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	143	6665	Battery 1	9.90	10.00	1.023	85.76	1.166	0.0625	1.5535	0.03	2.540	4.708	3.000	5.561
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	207	6985	Battery 1	9.90	11.00	1.288	85.76	1.166	0.0625	1.5535	0.1	2.490	5.810	2.890	6.744
	WLAN6GHZ	802.11ax-HE160 MCS0	Top Side	2mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	111	6505	Battery 1	11.10	11.50	1.096	85.76	1.166	0.0625	1.5535	0.08	0.110	0.218	0.130	0.258
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(7)	Sample 2	Battery 1	Power table 3	Non-DBS	47	6185	Battery 1	8.35	9.50	1.303	85.76	1.166	0.0625	1.5535	0.01	2.860	6.751	2.980	7.034
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(7)	Sample 3	Battery 1	Power table 3	Non-DBS	47	6185	Battery 1	8.35	9.50	1.303	85.76	1.166	0.0625	1.5535	0.03	2.930	6.916	3.050	7.200
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(7)	Sample 1	Battery 2	Power table 3	Non-DBS	47	6185	Battery 2	8.35	9.50	1.303	85.76	1.166	0.0625	1.5535	-0.08	2.900	6.846	3.020	7.129
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(7)	Sample 1	Battery 3	Power table 3	Non-DBS	47	6185	Battery 3	8.35	9.50	1.303	85.76	1.166	0.0625	1.5535	-0.08	3.010	7.105	3.130	7.388
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(7)	Sample 1	Battery 4	Power table 3	Non-DBS	47	6185	Battery 4	8.35	9.50	1.303	85.76	1.166	0.0625	1.5535	0.1	2.730	6.444	2.840	6.704
	WLAN6GHZ	802.11ax-HE160 MCS0	Right Side	2mm	Ant 6+7(7)	Sample 1	Battery 5	Power table 3	Non-DBS	47	6185	Battery 5	8.35	9.50	1.303	85.76	1.166	0.0625	1.5535	-0.18	2.840	6.704	2.960	6.987



13.6 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Accessories	Wlan On / Off	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	FR1 n41_Ant 3	100M_BPSK_1_1	Left Cheek	0mm	Sample 1	Battery 1		Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	0.12	0.987	-	1.198
2nd	FR1 n41_Ant 3	100M_BPSK_1_1	Left Cheek	0mm	Sample 1	Battery 1		Wlan Off	DSI 2	518598	2592.99	21.16	22.00	1.213	0.05	0.977	1.010	1.185
1st	FR1 n77_Ant 8	100M_BPSK_135_69	Right Cheek	0mm	Sample 1	Battery 1		Wlan Off	DSI 2	656000	3840	23.45	23.60	1.035	-0.07	1.040	-	1.077
2nd	FR1 n77_Ant 8	100M_BPSK_135_69	Right Cheek	0mm	Sample 1	Battery 1		Wlan Off	DSI 2	656000	3840	23.45	23.60	1.035	0.05	1.020	1.020	1.056
1st	WCDMA_IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	-0.07	0.988	-	1.185
2nd	WCDMA_IV_Ant 1	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	1312	1712.4	24.21	25.00	1.199	0.02	0.979	1.009	1.174
1st	FR1 n25_Ant 1	40M_BPSK_1_1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	0.02	1.070	-	1.147
2nd	FR1 n25_Ant 1	40M_BPSK_1_1	Back	0mm	Sample 1	Battery 1	Holster	Wlan Off	DSI 1	376500	1882.5	24.90	25.20	1.072	0.09	1.040	1.029	1.114

No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Wlan On / Off	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	FR1 n66_Ant 1	20M_BPSK_1_1	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	354000	1770	23.39	24.00	1.151	0.18	2.120	-	2.440
2nd	FR1 n66_Ant 1	20M_BPSK_1_1	Back	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	354000	1770	23.39	24.00	1.151	0.05	2.090	1.014	2.405
1st	FR1 n77_Ant 4	100M_BPSK_135_0	Right side	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	633332	3499.98	20.77	22.00	1.327	-0.06	2.250	-	2.987
2nd	FR1 n77_Ant 4	100M_BPSK_135_0	Right side	0mm	Sample 1	Battery 1	Wlan Off	DSI 1	633332	3499.98	20.77	22.00	1.327	0.05	2.190	1.027	2.907

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Buttery	Power Status	Non-DBS / DBS	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	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	0.14	0.854	-	1.196
2nd	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 2	Non-DBS	1	2412	20.20	21.00	1.202	85.84	1.165	0.02	0.824	1.036	1.154
1st	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	-0.19	0.896	-	1.198
2nd	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	46	5230	17.40	18.00	1.148	85.87	1.165	0.03	0.867	1.033	1.160
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	-0.12	0.814	-	1.190
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 2	Non-DBS	155	5775	15.00	16.00	1.259	86.15	1.161	0.07	0.788	1.033	1.152
1st	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	110	5550	17.80	18.50	1.175	85.87	1.165	-0.02	0.818	-	1.120
2nd	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	110	5550	17.80	18.50	1.175	85.87	1.165	0.05	0.779	1.050	1.066

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Buttery	Power Status	Non-DBS / DBS	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WLAN5GHz	802.11n-HT20 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	60	5300	18.20	19.00	1.202	86.14	1.161	0.08	2.290	-	3.196
2nd	WLAN5GHz	802.11n-HT20 MCS0	Right Side	0mm	Ant 6+7(7)	Sample 1	Battery 1	Power table 3	Non-DBS	60	5300	18.20	19.00	1.202	86.14	1.161	0.08	2.210	1.036	3.085
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	0.08	2.210	-	2.946
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+7(6)	Sample 1	Battery 1	Power table 3	Non-DBS	155	5775	18.40	19.00	1.148	86.15	1.161	0.12	2.080	1.063	2.773

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.



13.7 Power Class 2 and Power Class 3 Linearity

General Note:

This device support Power Class 2 and Power Class 3 operations. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE and FR1 configuration and exposure condition combination, according to the highest time averaged power for Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required. Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

<LTE Band 41 Linearity Data for Head>

	LTE Band 41_Ant 5	LTE Band 41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25.2	27
Reported 1g SAR (W/kg)	0.018	0.017
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	209.61	217.01
Linearity SAR(W/kg)	0.02	
% deviation from expected linearity		-8.78%

<LTE Band 41 Linearity Data for Hotspot>

	LTE Band 41_Ant 5	LTE Band 41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.4	25
Reported 1g SAR (W/kg)	0.241	0.216
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	138.49	136.93
Linearity SAR(W/kg)	0.24	
% deviation from expected linearity		-9.35%

<LTE Band 41 Linearity Data for Body-worn>

	LTE Band 41_Ant 5	LTE Band 41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24.5	26.1
Reported 1g SAR (W/kg)	0.098	0.088
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	178.40	176.40
Linearity SAR(W/kg)	0.10	
% deviation from expected linearity		-9.18%



<FR1 n41 Linearity Data for Head>

	FR1 n41_Ant 5	FR1 n41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25.2	27
Reported 1g SAR (W/kg)	0.063	0.051
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	331.13	250.59
Linearity SAR(W/kg)	0.05	
% deviation from expected linearity		6.97%

<FR1 n41 Linearity Data for Hotspot>

	FR1 n41_Ant 5	FR1 n41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24.1	27
Reported 1g SAR (W/kg)	0.525	0.556
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	257.04	250.59
Linearity SAR(W/kg)	0.51	
% deviation from expected linearity		8.63%

<FR1 n41 Linearity Data for Body-worn>

	FR1 n41_Ant 5	FR1 n41_Ant 5
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25.2	27
Reported 1g SAR (W/kg)	0.226	0.186
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	331.13	250.59
Linearity SAR(W/kg)	0.17	
% deviation from expected linearity		8.75%

<FR1 n77 Linearity Data for Head>

	FR1 n77_Ant 8	FR1 n77_Ant 8
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.6	26.6
Reported 1g SAR (W/kg)	1.077	1.07
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	229.09	228.54
Linearity SAR(W/kg)	1.07	
% deviation from expected linearity		-0.41%

<FR1 n77 Linearity Data for Hotspot>

	FR1 n77_Ant 8	FR1 n77_Ant 8
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	21.5	24.5
Reported 1g SAR (W/kg)	0.727	0.664
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	140.92
Linearity SAR(W/kg)	0.73	
% deviation from expected linearity		-8.45%

<FR1 n77 Linearity Data for Body-worn>

	FR1 n77_Ant 8	FR1 n77_Ant 8
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	22.9	25.9
Reported 1g SAR (W/kg)	0.338	0.304
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	194.98	194.52
Linearity SAR(W/kg)	0.34	
% deviation from expected linearity		-9.85%

14. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Head	Hotspot	Body-Worn	Product Specific
Non-DBS					
1.	2.4G/5G/6E WLAN Ant 6 + Bluetooth Ant 7 + NFC	Yes	Yes	Yes	Yes
2.	2.4G/5G/6E WLAN Ant 7 + Bluetooth Ant 6 + NFC	Yes	Yes	Yes	Yes
3.	5G/6E WLAN Ant 6+7 MIMO + Bluetooth Ant 6/7 + NFC	Yes	Yes	Yes	Yes
4.	WWAN + 2.4G/5G/6E WLAN Ant 6 + Bluetooth Ant 7 + NFC	Yes	Yes	Yes	Yes
5.	WWAN + 2.4G/5G/6E WLAN Ant 7 + Bluetooth Ant 6 + NFC	Yes	Yes	Yes	Yes
6.	WWAN + 5G/6E WLAN Ant 6+7 MIMO + Bluetooth Ant 6/7 + NFC	Yes	Yes	Yes	Yes
DBS					
7.	2.4G WLAN Ant 6 + 5G/6E WLAN Ant 6 + NFC	Yes	Yes	Yes	Yes
8.	2.4G WLAN Ant 7 + 5G/6E WLAN Ant 7 + NFC	Yes	Yes	Yes	Yes
9.	2.4G WLAN MIMO Ant 6+7 + 5G/6E WLAN Ant 6+7 MIMO + NFC	Yes	Yes	Yes	Yes
10.	2.4G WLAN Ant 6 + 5G/6E WLAN Ant 6+7 MIMO + NFC	Yes	Yes	Yes	Yes
11.	2.4G WLAN Ant 7 + 5G/6E WLAN Ant 6+7 MIMO + NFC	Yes	Yes	Yes	Yes
12.	2.4G WLAN Ant 6 + 5G/6E WLAN Ant 6+7 MIMO + Bluetooth Ant 7 + NFC	Yes	Yes	Yes	Yes
13.	2.4G WLAN Ant 7 + 5G/6E WLAN Ant 6+7 MIMO + Bluetooth Ant 6 + NFC	Yes	Yes	Yes	Yes
14.	2.4G WLAN MIMO Ant 6+7 + 5G/6E WLAN Ant 6 + NFC	Yes	Yes	Yes	Yes
15.	2.4G WLAN MIMO Ant 6+7 + 5G/6E WLAN Ant 7 + NFC	Yes	Yes	Yes	Yes
16.	WWAN + 2.4G WLAN Ant 6 + 5G/6E WLAN Ant 6 + NFC	Yes	Yes	Yes	Yes
17.	WWAN + 2.4G WLAN Ant 7 + 5G/6E WLAN Ant 7 + NFC	Yes	Yes	Yes	Yes
18.	WWAN + 2.4G WLAN MIMO Ant 6+7 + 5G/6E WLAN Ant 6+7 MIMO + NFC	Yes	Yes	Yes	Yes
19.	WWAN + 2.4G WLAN Ant 6 + 5G/6E WLAN Ant 6+7 MIMO + NFC	Yes	Yes	Yes	Yes
20.	WWAN + 2.4G WLAN Ant 7 + 5G/6E WLAN Ant 6+7 MIMO + NFC	Yes	Yes	Yes	Yes
21.	WWAN + 2.4G WLAN Ant 6 + 5G/6E WLAN Ant 6+7 MIMO + Bluetooth Ant 7 + NFC	Yes	Yes	Yes	Yes
22.	WWAN + 2.4G WLAN Ant 7 + 5G/6E WLAN Ant 6+7 MIMO + Bluetooth Ant 6 + NFC	Yes	Yes	Yes	Yes
23.	WWAN + 2.4G WLAN MIMO Ant 6+7 + 5G/6E WLAN Ant 6 + NFC	Yes	Yes	Yes	Yes
24.	WWAN + 2.4G WLAN MIMO Ant 6+7 + 5G/6E WLAN Ant 7 + NFC	Yes	Yes	Yes	Yes

General Note:

1. The worst case reported SAR for each configuration was used for SAR summation. Therefore, the following summations represent the absolute worst cases for simultaneous transmission.
2. The Scaled SAR summation is calculated based on the same configuration and test position.
3. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.



14.1 Head Exposure Conditions

Table with columns: WWAN Band, Exposure Position, Non-DBS (Ant 1-5), DBS (Ant 6-7), Non-DBS (Summed SAR), DBS (Summed SAR), SPLSR, Case No. Rows include WCDMA II, IV, V, LTE Bands 12-26, and FR1 n12-n25.



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	Left Cheek	0.369	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.774	0.474	0.859	1.456	1.451	1.182	0.882	1.138		
	Left Tilted	0.268	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.459	0.270	0.611	1.055	1.055	0.779	0.590	0.930		
FR1 n26_Ant 1	Right Cheek	0.337	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.589	0.607	0.661	1.190	1.194	0.956	0.974	1.019		
	Right Tilted	0.233	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.453	0.318	0.622	1.026	1.026	0.765	0.630	0.933		
	Left Cheek	0.395	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.800	0.500	0.885	1.482	1.477	1.208	0.908	1.164		
	Left Tilted	0.248	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.439	0.250	0.591	1.035	1.035	0.759	0.570	0.910		
FR1 n66_Ant 1	Right Cheek	0.737	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.989	1.007	1.061	1.590	1.594	1.356	1.374	1.419		
	Right Tilted	0.250	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.470	0.335	0.639	1.043	1.043	0.782	0.647	0.950		
	Left Cheek	0.425	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.830	0.530	0.915	1.512	1.507	1.238	0.938	1.194		
	Left Tilted	0.209	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.400	0.211	0.552	0.996	0.996	0.720	0.531	0.871		
FR1 n71_Ant 1	Right Cheek	0.186	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.438	0.456	0.510	1.039	1.043	0.805	0.823	0.868		
	Right Tilted	0.115	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.335	0.200	0.504	0.908	0.908	0.647	0.512	0.815		
	Left Cheek	0.231	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.636	0.336	0.721	1.318	1.313	1.044	0.744	1.000		
	Left Tilted	0.133	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.324	0.135	0.476	0.920	0.920	0.644	0.455	0.795		

WWAN Band	Exposure Position	Non-DBS					DBS							Non-DBS					DBS			
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)		
		WWAN	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 n41_Ant 2	Right Cheek	0.372	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.620	0.642	0.687	1.225	1.229	0.991	1.009	1.054		
	Right Tilted	0.301	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.521	0.386	0.689	1.094	1.094	0.833	0.698	1.001		
	Left Cheek	0.192	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.602	0.297	0.681	1.279	1.274	1.005	0.705	0.961		
	Left Tilted	0.158	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.349	0.160	0.500	0.945	0.945	0.669	0.480	0.820		

WWAN Band	Exposure Position	Non-DBS					DBS							Non-DBS					DBS		SPLSR	Case No.
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)		
		WWAN	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 n41_Ant 3	Right Cheek	0.707	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.959	0.977	1.022	1.560	1.564	1.326	1.344	1.389		
	Right Tilted	0.195	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.415	0.280	0.583	0.988	0.988	0.727	0.592	0.895		
	Left Cheek	0.656	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	1.061	0.761	1.145	1.743	1.738	1.469	1.169	1.425	0.02	Case 36
	Left Tilted	0.141	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.332	0.143	0.483	0.928	0.928	0.652	0.463	0.803		
FR1 n77_Ant 3	Right Cheek	0.737	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.989	1.007	1.052	1.590	1.594	1.356	1.374	1.419		
	Right Tilted	0.356	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.576	0.441	0.744	1.149	1.149	0.888	0.753	1.056		
	Left Cheek	0.741	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	1.146	0.846	1.230	1.828	1.823	1.554	1.254	1.510	0.03	Case 37
	Left Tilted	0.185	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.376	0.187	0.527	0.972	0.972	0.696	0.507	0.847		

WWAN Band	Exposure Position	Non-DBS					DBS							Non-DBS					DBS			
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)		
		WWAN	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 n41_Ant 4	Right Cheek	0.377	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.885	0.647	0.692	1.230	1.234	0.996	1.014	1.059		
	Right Tilted	0.105	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.408	0.190	0.493	0.898	0.898	0.637	0.502	0.805		
	Left Cheek	0.189	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.692	0.294	0.678	1.276	1.271	1.002	0.702	0.958		
	Left Tilted	0.046	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.237	0.048	0.388	0.833	0.833	0.557	0.368	0.708		
FR1 n77_Ant 4	Right Cheek	0.592	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	1.100	0.862	0.907	1.445	1.449	1.211	1.229	1.274		
	Right Tilted	0.093	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.396	0.178	0.481	0.886	0.886	0.625	0.490	0.793		
	Left Cheek	0.425	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.928	0.530	0.914	1.512	1.507	1.238	0.938	1.194		
	Left Tilted	0.128	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.319	0.130	0.470	0.915	0.915	0.639	0.450	0.790		



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WWAN Band	Exposure Position	Non-DBS											DBS													
		1					2					3	4	5	8		9		10		11		6		7	
		WWAN	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)						
LTE Band 7_Ant 5	Right Cheek	0.016	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.268	0.286	0.331	0.869	0.873	0.635	0.653	0.698						
	Right Tilted	0.010	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.230	0.095	0.398	0.803	0.803	0.542	0.407	0.710						
	Left Cheek	0.049	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.454	0.154	0.538	1.136	1.131	0.862	0.562	0.818						
	Left Tilted	0.023	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.214	0.025	0.365	0.810	0.810	0.534	0.345	0.685						
LTE Band 25_Ant 5	Right Cheek	0.105	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.357	0.375	0.420	0.958	0.962	0.724	0.742	0.787						
	Right Tilted	0.052	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.272	0.137	0.440	0.845	0.845	0.584	0.449	0.752						
	Left Cheek	0.204	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.609	0.309	0.693	1.291	1.286	1.017	0.717	0.973						
	Left Tilted	0.030	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.221	0.032	0.372	0.817	0.817	0.541	0.352	0.692						
LTE Band 30_Ant 5	Right Cheek	0.207	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.459	0.477	0.522	1.060	1.064	0.826	0.844	0.889						
	Right Tilted	0.090	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.310	0.175	0.478	0.883	0.883	0.622	0.487	0.790						
	Left Cheek	0.296	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.701	0.401	0.785	1.383	1.378	1.109	0.809	1.065						
	Left Tilted	0.071	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.262	0.073	0.413	0.858	0.858	0.582	0.393	0.733						
LTE Band 41_Ant 5	Right Cheek	0.006	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.258	0.276	0.321	0.859	0.863	0.625	0.643	0.688						
	Right Tilted	0.004	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.224	0.089	0.392	0.797	0.797	0.536	0.401	0.704						
	Left Cheek	0.018	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.423	0.123	0.507	1.105	1.100	0.831	0.531	0.787						
	Left Tilted	0.009	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.200	0.011	0.351	0.796	0.796	0.520	0.331	0.671						
LTE Band 66_Ant 5	Right Cheek	0.185	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.437	0.455	0.500	1.038	1.042	0.804	0.822	0.867						
	Right Tilted	0.128	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.348	0.213	0.516	0.921	0.921	0.660	0.525	0.828						
	Left Cheek	0.294	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.699	0.399	0.783	1.381	1.376	1.107	0.807	1.063						
	Left Tilted	0.131	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.322	0.133	0.473	0.918	0.918	0.642	0.453	0.793						
FR1 n7_Ant 5	Right Cheek	0.037	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.289	0.307	0.352	0.890	0.894	0.656	0.674	0.719						
	Right Tilted	0.018	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.238	0.103	0.406	0.811	0.811	0.550	0.415	0.718						
	Left Cheek	0.067	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.472	0.172	0.556	1.154	1.149	0.880	0.580	0.836						
	Left Tilted	0.014	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.205	0.016	0.356	0.801	0.801	0.525	0.336	0.676						
FR1 n25_Ant 5	Right Cheek	0.112	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.364	0.382	0.427	0.965	0.969	0.731	0.749	0.794						
	Right Tilted	0.001	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.221	0.086	0.389	0.794	0.794	0.533	0.398	0.701						
	Left Cheek	0.191	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.596	0.296	0.680	1.278	1.273	1.004	0.704	0.960						
	Left Tilted	0.001	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.192	0.003	0.343	0.788	0.788	0.512	0.323	0.663						
FR1 n30_Ant 5	Right Cheek	0.272	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.524	0.542	0.587	1.125	1.129	0.891	0.909	0.954						
	Right Tilted	0.140	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.360	0.225	0.528	0.933	0.933	0.672	0.537	0.840						
	Left Cheek	0.498	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.903	0.603	0.987	1.585	1.580	1.311	1.011	1.267						
	Left Tilted	0.102	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.293	0.104	0.444	0.889	0.889	0.613	0.424	0.764						
FR1 n41_Ant 5	Right Cheek	0.040	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.292	0.310	0.355	0.893	0.897	0.659	0.677	0.722						
	Right Tilted	0.022	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.242	0.107	0.410	0.815	0.815	0.554	0.419	0.722						
	Left Cheek	0.063	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.468	0.168	0.552	1.150	1.145	0.876	0.576	0.832						
	Left Tilted	0.014	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.205	0.016	0.356	0.801	0.801	0.525	0.336	0.676						
FR1 n66_Ant 5	Right Cheek	0.246	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.498	0.516	0.561	1.099	1.103	0.865	0.883	0.928						
	Right Tilted	0.175	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.395	0.260	0.563	0.968	0.968	0.707	0.572	0.875						
	Left Cheek	0.365	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.770	0.470	0.854	1.452	1.447	1.178	0.878	1.134						
	Left Tilted	0.182	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.373	0.184	0.524	0.969	0.969	0.693	0.504	0.844						



FCC SAR TEST REPORT

Report No. : FA411111B

WWAN Band	Exposure Position	Non-DBS					DBS					Non-DBS					DBS			SPLSR	Case No.	
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)			1+10+11 Summed 1g SAR (W/kg)
		WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 48_Ant 8	Right Cheek	0.632	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.884	0.902	0.947	1.485	1.489	1.251	1.269	1.314		
	Right Tilted	0.099	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.319	0.184	0.487	0.892	0.892	0.631	0.496	0.799		
	Left Cheek	0.227	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.632	0.332	0.716	1.314	1.309	1.040	0.740	0.996		
	Left Tilted	0.133	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.324	0.135	0.475	0.920	0.920	0.644	0.455	0.795		
FR1 n48_Ant 8	Right Cheek	0.437	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.689	0.707	0.752	1.290	1.294	1.056	1.074	1.119		
	Right Tilted	0.055	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.275	0.140	0.443	0.848	0.848	0.587	0.452	0.755		
	Left Cheek	0.167	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.572	0.272	0.656	1.254	1.249	0.980	0.680	0.936		
	Left Tilted	0.083	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.274	0.085	0.425	0.870	0.870	0.594	0.405	0.745		
FR1 n77_Ant 8	Right Cheek	0.763	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	1.015	1.033	1.078	1.616	1.620	1.382	1.400	1.445	0.03	Case 49
	Right Tilted	0.255	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.475	0.340	0.643	1.048	1.048	0.787	0.652	0.955		
	Left Cheek	0.409	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.814	0.514	0.898	1.496	1.491	1.222	0.922	1.178		
	Left Tilted	0.287	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.478	0.289	0.629	1.074	1.074	0.798	0.609	0.949		

WWAN Band	Exposure Position	Non-DBS					DBS					Non-DBS					DBS			
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)
		WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 48_Ant 9	Right Cheek	0.041	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.293	0.311	0.356	0.894	0.898	0.660	0.678	0.723
	Right Tilted	0.001	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.221	0.086	0.389	0.794	0.794	0.533	0.398	0.701
	Left Cheek	0.256	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.661	0.361	0.745	1.343	1.338	1.069	0.769	1.025
	Left Tilted	0.023	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.214	0.025	0.365	0.810	0.810	0.534	0.345	0.685
FR1 n48_Ant 9	Right Cheek	0.713	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.965	0.983	1.028	1.566	1.570	1.332	1.350	1.395
	Right Tilted	0.087	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.307	0.172	0.475	0.880	0.880	0.619	0.484	0.787
	Left Cheek	0.261	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.666	0.366	0.750	1.348	1.343	1.074	0.774	1.030
	Left Tilted	0.075	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.266	0.077	0.417	0.862	0.862	0.586	0.397	0.737
FR1 n77_Ant 9	Right Cheek	0.135	0.243	0.265	0.315	0.848	0.243	0.265	0.315	0.367	0.005	0.009	0.387	0.405	0.450	0.988	0.992	0.754	0.772	0.817
	Right Tilted	0.093	0.219	0.084	0.388	0.792	0.219	0.084	0.388	0.312	0.001	0.001	0.313	0.178	0.481	0.886	0.886	0.625	0.490	0.793
	Left Cheek	0.418	0.404	0.099	0.489	1.081	0.404	0.099	0.361	0.408	0.006	0.001	0.823	0.523	0.907	1.505	1.500	1.231	0.931	1.187
	Left Tilted	0.058	0.190	0.001	0.342	0.786	0.190	0.001	0.342	0.320	0.001	0.001	0.249	0.060	0.400	0.845	0.845	0.569	0.380	0.720



14.2 Hotspot Exposure Conditions

WWAN Band	Exposure Position	Non-DBS					DBS					Non-DBS					DBS					SPLSR	Case No.
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)			
		WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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)		
WCDMA II_Ant 1	Front	0.382	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.528	0.454	0.606	0.556	0.556	0.701	0.627	0.778			
	Back	0.745	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.766	0.974	1.942	1.966	1.943	1.518	1.373	1.541	0.04	Case 4	
	Left side	0.128	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.130	0.462	0.465	0.924	0.924	0.496	0.616	0.830			
	Right side	0.500	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.477	0.519	1.526	1.716	1.699	1.235	0.938	1.254	0.03	Case 5	
	Top side	0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.346	0.515	0.515	0.704	0.568	0.859				
	Bottom side	0.545											0.545	0.545	0.545	0.545	0.545	0.545	0.545	0.545			
WCDMA IV_Ant 1	Front	0.330	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.476	0.402	0.554	0.504	0.504	0.649	0.575	0.726			
	Back	0.797	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.818	1.026	1.994	2.018	1.995	1.570	1.425	1.593	0.02	Case 6	
	Left side	0.088	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.090	0.422	0.425	0.884	0.884	0.456	0.576	0.790			
	Right side	0.481	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.458	0.500	1.507	1.697	1.680	1.216	0.919	1.235	0.03	Case 7	
	Top side	0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.346	0.515	0.515	0.704	0.568	0.859				
	Bottom side	0.513											0.513	0.513	0.513	0.513	0.513	0.513	0.513	0.513			
WCDMA V_Ant 1	Front	0.291	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.437	0.363	0.515	0.465	0.465	0.610	0.536	0.687			
	Back	0.623	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.644	0.852	1.820	1.844	1.821	1.396	1.251	1.419	0.04	Case 8	
	Left side	0.330	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.332	0.664	0.667	1.126	1.126	0.698	0.818	1.032			
	Right side	0.194	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.171	0.213	1.220	1.410	1.393	0.929	0.632	0.948			
	Top side	0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.346	0.515	0.515	0.704	0.568	0.859				
	Bottom side	0.223											0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223			
LTE Band 12_Ant 1	Front	0.226	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.372	0.298	0.450	0.400	0.400	0.545	0.471	0.622			
	Back	0.419	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.440	0.648	1.616	1.640	1.617	1.192	1.047	1.215	0.03	Case 9	
	Left side	0.233	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.235	0.567	0.570	1.029	1.029	0.601	0.721	0.935			
	Right side	0.149	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.126	0.168	1.175	1.365	1.348	0.884	0.587	0.903			
	Top side	0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.346	0.515	0.515	0.704	0.568	0.859				
	Bottom side	0.198											0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198			
LTE Band 13_Ant 1	Front	0.233	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.379	0.305	0.457	0.407	0.407	0.552	0.478	0.629			
	Back	0.494	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.515	0.723	1.691	1.715	1.692	1.267	1.122	1.290	0.02	Case 10	
	Left side	0.216	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.218	0.550	0.553	1.012	1.012	0.584	0.704	0.918			
	Right side	0.121	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.098	0.140	1.147	1.337	1.320	0.856	0.559	0.875			
	Top side	0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.346	0.515	0.515	0.704	0.568	0.859				
	Bottom side	0.258											0.258	0.258	0.258	0.258	0.258	0.258	0.258	0.258			
LTE Band 14_Ant 1	Front	0.224	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.370	0.296	0.448	0.398	0.398	0.543	0.469	0.620			
	Back	0.478	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.499	0.707	1.675	1.699	1.676	1.251	1.106	1.274	0.02	Case 11	
	Left side	0.228	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.230	0.562	0.565	1.024	1.024	0.596	0.716	0.930			
	Right side	0.120	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.097	0.139	1.146	1.336	1.319	0.855	0.558	0.874			
	Top side	0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.346	0.515	0.515	0.704	0.568	0.859				
	Bottom side	0.211											0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211			
LTE Band 25_Ant 1	Front	0.297	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.443	0.369	0.521	0.471	0.471	0.616	0.542	0.693			
	Back	0.795	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.816	1.024	1.992	2.016	1.993	1.568	1.423	1.591	0.02	Case 12	
	Left side	0.091	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.093	0.425	0.428	0.887	0.887	0.459	0.579	0.793			
	Right side	0.505	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.482	0.524	1.531	1.721	1.704	1.240	0.943	1.259	0.02	Case 13	
	Top side	0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.346	0.515	0.515	0.704	0.568	0.859				
	Bottom side	0.485											0.485	0.485	0.485	0.485	0.485	0.485	0.485	0.485			
LTE Band 26_Ant 1	Front	0.206	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.352	0.278	0.430	0.380	0.380	0.525	0.451	0.602			
	Back	0.482	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.503	0.711	1.679	1.703	1.680	1.255	1.110	1.278	0.02	Case 14	
	Left side	0.218	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.220	0.552	0.555	1.014	1.014	0.586	0.706	0.920			
	Right side	0.122	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.099	0.141	1.148	1.338	1.321	0.857	0.560	0.876			
	Top side	0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.346	0.515	0.515	0.704	0.568	0.859				
	Bottom side	0.223											0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223			
LTE Band 66_Ant 1	Front	0.301	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.447	0.373	0.525	0.475	0.475	0.620	0.546	0.697			
	Back	0.774	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.795	1.003	1.971	1.995	1.972	1.547	1.402	1.570	0.02	Case 15	
	Left side	0.060	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.062	0.394	0.397	0.856	0.856	0.428	0.548	0.762			
	Right side	0.432	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.409	0.451	1.458	1.648	1.631	1.167	0.870	1.186	0.03	Case 16	
	Top side	0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.346	0.515	0.515	0.704	0.568	0.859				
	Bottom side	0.460											0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460			
LTE Band 71_Ant 1	Front	0.209	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.355	0.281	0.433	0.383	0.383	0.528	0.454	0.605			



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LTE Band 41_Ant 5	Front	0.011	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.157	0.083	0.234	0.185	0.185	0.330	0.256	0.407		
	Back	0.095	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.116	0.324	1.291	1.316	1.293	0.868	0.723	0.891		
	Left side	0.241	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.243	0.575	0.577	1.037	1.037	0.609	0.729	0.943		
	Right side		0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	0.977	0.019	1.025	1.216	1.199	0.735	0.438	0.754		
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859		
	Bottom side	0.001											0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
LTE Band 66_Ant 5	Front	0.226	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.372	0.298	0.449	0.400	0.400	0.545	0.471	0.622		
	Back	0.355	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.376	0.584	1.551	1.576	1.553	1.128	0.983	1.151		
	Left side	0.649	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.651	0.983	0.985	1.445	1.445	1.017	1.137	1.351		
	Right side		0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	0.977	0.019	1.025	1.216	1.199	0.735	0.438	0.754		
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859		
	Bottom side	0.204											0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204		
FR1 n7_Ant 5	Front	0.058	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.204	0.130	0.281	0.232	0.232	0.377	0.303	0.454		
	Back	0.501	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.522	0.730	1.697	1.722	1.699	1.274	1.129	1.297	0.02	Case 46
	Left side	0.783	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.785	1.117	1.119	1.579	1.579	1.151	1.271	1.485		
	Right side		0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	0.977	0.019	1.025	1.216	1.199	0.735	0.438	0.754		
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859		
	Bottom side	0.001											0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
FR1 n25_Ant 5	Front	0.274	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.420	0.346	0.497	0.448	0.448	0.593	0.519	0.670		
	Back	0.415	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.436	0.644	1.611	1.636	1.613	1.188	1.043	1.211	0.02	Case 47
	Left side	0.789	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.791	1.123	1.125	1.585	1.585	1.157	1.277	1.491		
	Right side		0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	0.977	0.019	1.025	1.216	1.199	0.735	0.438	0.754		
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859		
	Bottom side	0.226											0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226		
FR1 n30_Ant 5	Front	0.317	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.463	0.389	0.540	0.491	0.491	0.636	0.562	0.713		
	Back	0.387	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.408	0.616	1.583	1.608	1.585	1.160	1.015	1.183	0.02	Case 48
	Left side	0.766	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.768	1.100	1.102	1.562	1.562	1.134	1.254	1.468		
	Right side		0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	0.977	0.019	1.025	1.216	1.199	0.735	0.438	0.754		
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859		
	Bottom side	0.144											0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144		
FR1 n41_Ant 5	Front	0.050	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.196	0.122	0.273	0.224	0.224	0.369	0.295	0.446		
	Back	0.344	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.365	0.573	1.540	1.565	1.542	1.117	0.972	1.140		
	Left side	0.525	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.527	0.859	0.861	1.321	1.321	0.893	1.013	1.227		
	Right side		0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	0.977	0.019	1.025	1.216	1.199	0.735	0.438	0.754		
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859		
	Bottom side	0.001											0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
FR1 n66_Ant 5	Front	0.190	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.336	0.262	0.413	0.364	0.364	0.509	0.435	0.586		
	Back	0.291	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.312	0.520	1.487	1.512	1.489	1.064	0.919	1.087		
	Left side	0.731	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.733	1.065	1.067	1.527	1.527	1.099	1.219	1.433		
	Right side		0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	0.977	0.019	1.025	1.216	1.199	0.735	0.438	0.754		
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859		
	Bottom side	0.150											0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150		



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WWAN Band	Exposure Position	Non-DBS					DBS							Non-DBS					DBS			SPLSR	Case No
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)			
		WWAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 7	WLAN 5GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 48_Ant 8	Front	0.181	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.327	0.253	0.404	0.355	0.355	0.500	0.426	0.577			
	Back	0.252	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.273	0.481	1.448	1.473	1.450	1.025	0.880	1.048			
	Left side		0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.002	0.334	0.336	0.796	0.796	0.368	0.488	0.702			
	Right side	0.772	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.749	0.791	1.797	1.988	1.971	1.507	1.210	1.526	0.02	Case 50	
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859			
	Bottom side	0.125											0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125			
FR1 n48_Ant 8	Front	0.197	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.343	0.269	0.420	0.371	0.371	0.516	0.442	0.593			
	Back	0.351	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.372	0.580	1.547	1.572	1.549	1.124	0.979	1.147			
	Left side		0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.002	0.334	0.336	0.796	0.796	0.368	0.488	0.702			
	Right side	0.786	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.763	0.805	1.811	2.002	1.985	1.521	1.224	1.540	0.02	Case 51	
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859			
	Bottom side	0.207											0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207			
FR1 n77_Ant 8	Front	0.351	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.497	0.423	0.574	0.525	0.525	0.670	0.596	0.747			
	Back	0.500	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.521	0.729	1.696	1.721	1.698	1.273	1.128	1.296	0.02	Case 52	
	Left side		0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.002	0.334	0.336	0.796	0.796	0.368	0.488	0.702			
	Right side	0.765	0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	1.742	0.784	1.790	1.981	1.964	1.500	1.203	1.519	0.02	Case 53	
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859			
	Bottom side	0.245											0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245			

WWAN Band	Exposure Position	Non-DBS					DBS							Non-DBS					DBS			SPLSR	Case No
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)			
		WWAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 7	WLAN 5GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 48_Ant 9	Front	0.191	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.337	0.263	0.414	0.365	0.365	0.510	0.436	0.587			
	Back	0.368	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.389	0.597	1.564	1.589	1.566	1.141	0.996	1.164			
	Left side	0.796	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.798	1.130	1.132	1.592	1.592	1.164	1.284	1.498			
	Right side		0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	0.977	0.019	1.025	1.216	1.199	0.735	0.438	0.754			
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859			
	Bottom side	0.068											0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068			
FR1 n48_Ant 9	Front	0.233	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.379	0.305	0.456	0.407	0.407	0.552	0.478	0.629			
	Back	0.393	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.414	0.622	1.589	1.614	1.591	1.166	1.021	1.189	0.02	Case 55	
	Left side	0.799	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.801	1.133	1.135	1.595	1.595	1.167	1.287	1.501	0.03	Case 56	
	Right side		0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	0.977	0.019	1.025	1.216	1.199	0.735	0.438	0.754			
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859			
	Bottom side	0.077											0.077	0.077	0.077	0.077	0.077	0.077	0.077	0.077			
FR1 n77_Ant 9	Front	0.174	0.145	0.071	0.223	0.173	0.145	0.071	0.223	0.173	0.001	0.001	0.320	0.246	0.397	0.348	0.348	0.493	0.419	0.570			
	Back	0.416	1.020	0.205	1.196	1.197	0.373	0.205	0.397	0.399	0.024	0.001	1.437	0.645	1.612	1.637	1.614	1.189	1.044	1.212	0.02	Case 57	
	Left side	0.796	0.001	0.333	0.336	0.795	0.001	0.121	0.336	0.366	0.001	0.001	0.798	1.130	1.132	1.592	1.592	1.164	1.284	1.498			
	Right side		0.976	0.001	1.025	1.198	0.337	0.023	0.357	0.397	0.018	0.001	0.977	0.019	1.025	1.216	1.199	0.735	0.438	0.754			
	Top side		0.189	0.053	0.345	0.514	0.189	0.053	0.345	0.514	0.001	0.001	0.190	0.054	0.345	0.515	0.515	0.704	0.568	0.859			
	Bottom side	0.057											0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057			



14.3 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	Non-DBS											Non-DBS						DBS				SPLS R	Case No
		Non-DBS											Non-DBS						DBS					
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)				
WWAN	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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)				
WCDMA II_Ant 1	Front	0.379	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.495	0.381	0.527	0.696	0.696	0.811	0.697	0.842				
	Back	0.583	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.309	0.699	1.312	1.704	1.704	1.318	1.098	1.307	0.02	Case 27		
	Back with Holster	0.727	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.268	0.908	1.302	1.539	1.539	1.210	1.052	1.210				
WCDMA IV_Ant 1	Front	0.361	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.477	0.363	0.509	0.678	0.678	0.793	0.679	0.824				
	Back	0.769	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.495	0.885	1.498	1.890	1.890	1.504	1.284	1.493	0.02	Case 28		
	Back with Holster	0.769	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.310	0.950	1.344	1.581	1.581	1.252	1.094	1.252				
WCDMA V_Ant 1	Front	0.284	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.400	0.286	0.432	0.601	0.601	0.716	0.602	0.747				
	Back	0.361	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.087	0.477	1.090	1.482	1.482	1.096	0.876	1.085				
	Back with Holster	0.437	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.978	0.618	1.012	1.249	1.249	0.920	0.762	0.920				
LTE Band 12_Ant 1	Front	0.348	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.464	0.350	0.496	0.665	0.665	0.780	0.666	0.811				
	Back	0.499	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.225	0.615	1.228	1.620	1.620	1.234	1.014	1.223	0.03	Case 29		
	Back with Holster	0.500	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.041	0.681	1.075	1.312	1.312	0.983	0.825	0.983				
LTE Band 13_Ant 1	Front	0.268	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.384	0.270	0.416	0.585	0.585	0.700	0.586	0.731				
	Back	0.355	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.081	0.471	1.084	1.476	1.476	1.090	0.870	1.079				
	Back with Holster	0.415	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.956	0.596	0.990	1.227	1.227	0.898	0.740	0.898				
LTE Band 14_Ant 1	Front	0.269	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.385	0.271	0.417	0.586	0.586	0.701	0.587	0.732				
	Back	0.352	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.078	0.468	1.081	1.473	1.473	1.087	0.867	1.076				
	Back with Holster	0.399	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.940	0.580	0.974	1.211	1.211	0.882	0.724	0.882				
LTE Band 25_Ant 1	Front	0.280	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.396	0.282	0.428	0.597	0.597	0.712	0.598	0.743				
	Back	0.622	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.348	0.738	1.351	1.743	1.743	1.357	1.137	1.346	0.02	Case 30		
	Back with Holster	0.744	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.285	0.925	1.319	1.556	1.556	1.227	1.069	1.227				
LTE Band 26_Ant 1	Front	0.298	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.414	0.300	0.446	0.615	0.615	0.730	0.616	0.761				
	Back	0.392	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.118	0.508	1.121	1.513	1.513	1.127	0.907	1.116				
	Back with Holster	0.470	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.011	0.651	1.045	1.282	1.282	0.953	0.795	0.953				
LTE Band 66_Ant 1	Front	0.319	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.435	0.321	0.467	0.636	0.636	0.751	0.637	0.782				
	Back	0.790	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.516	0.906	1.519	1.911	1.911	1.525	1.305	1.514	0.02	Case 32		
	Back with Holster	0.632	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.173	0.813	1.207	1.444	1.444	1.115	0.957	1.115				
LTE Band 71_Ant 1	Front	0.260	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.376	0.262	0.408	0.577	0.577	0.692	0.578	0.723				
	Back	0.433	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.159	0.549	1.162	1.554	1.554	1.168	0.948	1.157				
	Back with Holster	0.472	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.013	0.653	1.047	1.284	1.284	0.955	0.797	0.955				
FR1 n12_Ant 1	Front	0.254	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.370	0.256	0.402	0.571	0.571	0.686	0.572	0.717				
	Back	0.390	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.116	0.506	1.119	1.511	1.511	1.125	0.905	1.114				
	Back with Holster	0.406	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.947	0.587	0.981	1.218	1.218	0.889	0.731	0.889				
FR1 n13_Ant 1	Front	0.268	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.384	0.270	0.416	0.585	0.585	0.700	0.586	0.731				
	Back	0.340	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.066	0.456	1.069	1.461	1.461	1.075	0.855	1.064				
	Back with Holster	0.348	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.889	0.529	0.923	1.160	1.160	0.831	0.673	0.831				
FR1 n14_Ant 1	Front	0.240	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.356	0.242	0.388	0.557	0.557	0.672	0.558	0.703				
	Back	0.330	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.056	0.446	1.059	1.451	1.451	1.065	0.845	1.054				
	Back with Holster	0.375	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.916	0.556	0.950	1.187	1.187	0.858	0.700	0.858				
FR1 n25_Ant 1	Front	0.354	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.470	0.356	0.502	0.671	0.671	0.786	0.672	0.817				
	Back	0.516	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.242	0.632	1.245	1.637	1.637	1.251	1.031	1.240	0.01	Case 34		
	Back with Holster	0.529	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.070	0.710	1.104	1.341	1.341	1.012	0.854	1.012				
FR1 n26_Ant 1	Front	0.291	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.407	0.293	0.439	0.608	0.608	0.723	0.609	0.754				
	Back	0.383	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.109	0.499	1.112	1.504	1.504	1.118	0.898	1.107				
	Back with Holster	0.414	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.955	0.595	0.989	1.226	1.226	0.897	0.739	0.897				
FR1 n66_Ant 1	Front	0.191	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.307	0.193	0.339	0.508	0.508	0.623	0.509	0.654				
	Back	0.579	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.305	0.695	1.308	1.700	1.700	1.314	1.094	1.303	0.02	Case 35		
	Back with Holster	0.504	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.045	0.685	1.079	1.316	1.316	0.987	0.829	0.987				
FR1 n71_Ant 1	Front	0.122	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.238	0.124	0.270	0.439	0.439	0.554	0.440	0.585				
	Back	0.271	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.997	0.387	1.000	1.392	1.392	1.006	0.786	0.995				
	Back with Holster	0.372	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.913	0.553	0.947	1.184	1.184	0.855	0.697	0.855				



WWAN Band	Exposure Position	Non-DBS					DBS					Non-DBS					DBS			
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 n41_Ant 2	Front	0.049	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.165	0.051	0.196	0.366	0.366	0.481	0.367	0.512
	Back	0.101	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.827	0.217	0.829	1.222	1.222	0.836	0.616	0.825
	Back with Holster	0.190	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.731	0.371	0.764	1.002	1.002	0.673	0.515	0.673

WWAN Band	Exposure Position	Non-DBS					DBS					Non-DBS					DBS			SPLSR	Case No	
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)			1+10+11 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 n41_Ant 3	Front	0.055	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.171	0.057	0.202	0.372	0.372	0.487	0.373	0.518		
	Back	0.158	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.884	0.274	0.886	1.279	1.279	0.893	0.673	0.882		
	Back with Holster	0.257	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.798	0.438	0.831	1.069	1.069	0.740	0.582	0.740		
FR1 n77_Ant 3	Front	0.162	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.278	0.164	0.309	0.479	0.479	0.594	0.480	0.625		
	Back	0.509	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.235	0.625	1.237	1.630	1.630	1.244	1.024	1.233		
	Back with Holster	0.321	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.862	0.502	0.895	1.133	1.133	0.804	0.646	0.804		

WWAN Band	Exposure Position	Non-DBS					DBS					Non-DBS					DBS			
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 n41_Ant 4	Front	0.026	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.142	0.028	0.173	0.343	0.343	0.458	0.344	0.489
	Back	0.039	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.765	0.155	0.767	1.160	1.160	0.774	0.554	0.763
	Back with Holster	0.059	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.600	0.240	0.633	0.871	0.871	0.542	0.384	0.542
FR1 n77_Ant 4	Front	0.082	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.198	0.084	0.229	0.399	0.399	0.514	0.400	0.545
	Back	0.460	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.186	0.576	1.188	1.581	1.581	1.195	0.975	1.184
	Back with Holster	0.485	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.026	0.666	1.059	1.297	1.297	0.968	0.810	0.968

WWAN Band	Exposure Position	Non-DBS					DBS					Non-DBS					DBS			
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)
		WWAN	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	WLAN 2.4GHz Ant 6	WLAN 2.4GHz Ant 7	WLAN 2.4GHz Ant 6+7	WLAN 2.4GHz Ant 6+7	WLAN 5/6GHz Ant 6+7	Bluetooth Ant 6	Bluetooth Ant 7	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 5	Front	0.029	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.145	0.031	0.176	0.346	0.346	0.461	0.347	0.492
	Back	0.171	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.897	0.287	0.899	1.292	1.292	0.906	0.686	0.895
	Back with Holster	0.210	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.751	0.391	0.784	1.022	1.022	0.693	0.535	0.693
LTE Band 25_Ant 5	Front	0.236	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.352	0.238	0.383	0.553	0.553	0.668	0.554	0.699
	Back	0.311	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.037	0.427	1.039	1.432	1.432	1.046	0.826	1.035
	Back with Holster	0.503	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.044	0.684	1.077	1.315	1.315	0.986	0.828	0.986
LTE Band 30_Ant 5	Front	0.143	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.259	0.145	0.290	0.460	0.460	0.575	0.461	0.606
	Back	0.237	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.963	0.353	0.965	1.358	1.358	0.972	0.752	0.961
	Back with Holster	0.272	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.813	0.453	0.846	1.084	1.084	0.755	0.597	0.755
LTE Band 41_Ant 5	Front	0.001	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.117	0.003	0.148	0.318	0.318	0.433	0.319	0.464
	Back	0.043	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.769	0.159	0.771	1.164	1.164	0.778	0.558	0.767
	Back with Holster	0.098	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.639	0.279	0.672	0.910	0.910	0.581	0.423	0.581
LTE Band 66_Ant 5	Front	0.108	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.224	0.110	0.255	0.425	0.425	0.540	0.426	0.571
	Back	0.163	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.889	0.279	0.891	1.284	1.284	0.898	0.678	0.887
	Back with Holster	0.263	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.804	0.444	0.837	1.075	1.075	0.746	0.588	0.746
FR1 n7_Ant 5	Front	0.057	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.173	0.059	0.204	0.374	0.374	0.489	0.375	0.520
	Back	0.161	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.887	0.277	0.889	1.282	1.282	0.896	0.676	0.885
	Back with Holster	0.180	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.721	0.361	0.754	0.992	0.992	0.663	0.505	0.663
FR1 n25_Ant 5	Front	0.322	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.438	0.324	0.469	0.639	0.639	0.754	0.640	0.785



FCC SAR TEST REPORT

Report No. : FA411111B

FR1 n30_Ant 5	Exposure Position	Non-DBS											DBS		Non-DBS								DBS	
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)				
FR1 n30_Ant 5	Back	0.398	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.124	0.514	1.126	1.519	1.519	1.133	0.913	1.122				
	Back with Holster	0.611	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	1.152	0.792	1.185	1.423	1.423	1.094	0.936	1.094				
FR1 n30_Ant 5	Front	0.248	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.364	0.250	0.395	0.565	0.565	0.680	0.566	0.711				
	Back	0.374	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.100	0.490	1.102	1.495	1.495	1.109	0.889	1.098				
FR1 n30_Ant 5	Back with Holster	0.408	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.949	0.589	0.982	1.220	1.220	0.891	0.733	0.891				
	FR1 n41_Ant 5	Front	0.003	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.119	0.005	0.150	0.320	0.320	0.435	0.321	0.466			
FR1 n41_Ant 5	Back	0.170	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.896	0.286	0.898	1.291	1.291	0.905	0.685	0.894				
	Back with Holster	0.226	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.767	0.407	0.800	1.038	1.038	0.709	0.551	0.709				
FR1 n66_Ant 5	FR1 n66_Ant 5	Front	0.146	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.262	0.148	0.293	0.463	0.463	0.578	0.464	0.609			
	Back	0.200	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.926	0.316	0.928	1.321	1.321	0.935	0.715	0.924				
FR1 n66_Ant 5	Back with Holster	0.209	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.750	0.390	0.783	1.021	1.021	0.692	0.534	0.692				

WWAN Band	Exposure Position	Non-DBS											DBS		Non-DBS								DBS	
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)				
LTE Band 48_Ant 8	Front	0.105	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.221	0.107	0.252	0.422	0.422	0.537	0.423	0.568				
	Back	0.141	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.867	0.257	0.869	1.262	1.262	0.876	0.656	0.865				
	Back with Holster	0.208	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.749	0.389	0.782	1.020	1.020	0.691	0.533	0.691				
FR1 n48_Ant 8	FR1 n48_Ant 8	Front	0.081	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.197	0.083	0.228	0.398	0.398	0.513	0.399	0.544			
	Back	0.321	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.047	0.437	1.049	1.442	1.442	1.056	0.836	1.045				
	Back with Holster	0.261	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.802	0.442	0.835	1.073	1.073	0.744	0.586	0.744				
FR1 n77_Ant 8	FR1 n77_Ant 8	Front	0.338	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.454	0.340	0.485	0.655	0.655	0.770	0.656	0.801			
	Back	0.254	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.980	0.370	0.982	1.375	1.375	0.989	0.769	0.978				
	Back with Holster	0.307	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.848	0.488	0.881	1.119	1.119	0.790	0.632	0.790				

WWAN Band	Exposure Position	Non-DBS											DBS		Non-DBS								DBS	
		1	2	3	4	5	8	9	10	11	6	7	1+2+7 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+8+11+7 Summed 1g SAR (W/kg)	1+9+11+6 Summed 1g SAR (W/kg)	1+10+11 Summed 1g SAR (W/kg)				
LTE Band 48_Ant 9	FR1 n48_Ant 9	Front	0.091	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.207	0.093	0.238	0.408	0.408	0.523	0.409	0.554			
	Back	0.172	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	0.898	0.288	0.900	1.293	1.293	0.907	0.687	0.896				
	Back with Holster	0.458	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.999	0.639	1.032	1.270	1.270	0.941	0.783	0.941				
FR1 n48_Ant 9	FR1 n48_Ant 9	Front	0.152	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.268	0.154	0.299	0.469	0.469	0.584	0.470	0.615			
	Back	0.315	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.041	0.431	1.043	1.436	1.436	1.050	0.830	1.039				
	Back with Holster	0.374	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.915	0.555	0.948	1.186	1.186	0.857	0.699	0.857				
FR1 n77_Ant 9	FR1 n77_Ant 9	Front	0.111	0.115	0.001	0.147	0.316	0.115	0.001	0.147	0.316	0.001	0.001	0.227	0.113	0.258	0.428	0.428	0.543	0.429	0.574			
	Back	0.327	0.725	0.115	0.728	1.120	0.335	0.115	0.325	0.399	0.001	0.001	1.053	0.443	1.055	1.448	1.448	1.062	0.842	1.051				
	Back with Holster	0.305	0.540	0.180	0.574	0.811	0.242	0.084	0.243	0.240	0.001	0.001	0.846	0.486	0.879	1.117	1.117	0.788	0.630	0.788				

14.4 Product Specific Exposure Conditions

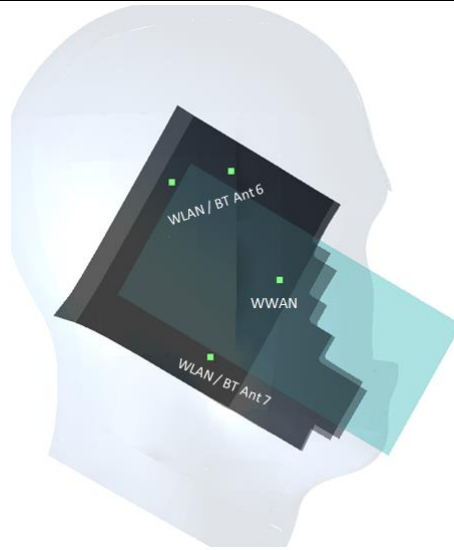
WWAN Band	Exposure Position	1	2	3	1+2+3 Summed 10g SAR (W/kg)
		WWAN	WLAN5/6GHz Ant 6+7	NFC	
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
WCDMA IV_Ant 1	Front		0.423	0.001	0.424
	Back	1.529	1.717	0.001	3.247
	Left side		1.533	0.001	1.534
	Right side		3.196	0.001	3.197
	Top side		0.431	0.001	0.432
	Bottom side				0.000
LTE Band 66_Ant 1	Front		0.423	0.001	0.424
	Back	1.344	1.717	0.001	3.062
	Left side		1.533	0.001	1.534
	Right side		3.196	0.001	3.197
	Top side		0.431	0.001	0.432
	Bottom side				0.000
FR1 n66_Ant 1	Front		0.423	0.001	0.424
	Back	0.911	1.717	0.001	2.629
	Left side		1.533	0.001	1.534
	Right side		3.196	0.001	3.197
	Top side		0.431	0.001	0.432
	Bottom side				0.000

14.5 SPLSR Evaluation and Analysis

General Note:

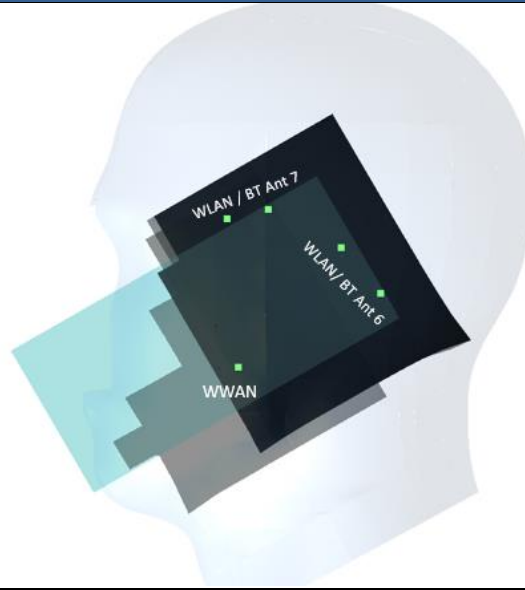
1. Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneously transmitting antenna. When the sum of 1-g or 10-g SAR of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit, SAR test exclusion applies to that simultaneous transmission configuration. Therefore, the adjacent transmit antennas will be summed first, and then the SPLSR calculation will be evaluated with the farther transmitted antennas.
2. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (min. \text{ separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary
3. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.

Right Cheek hotspot point

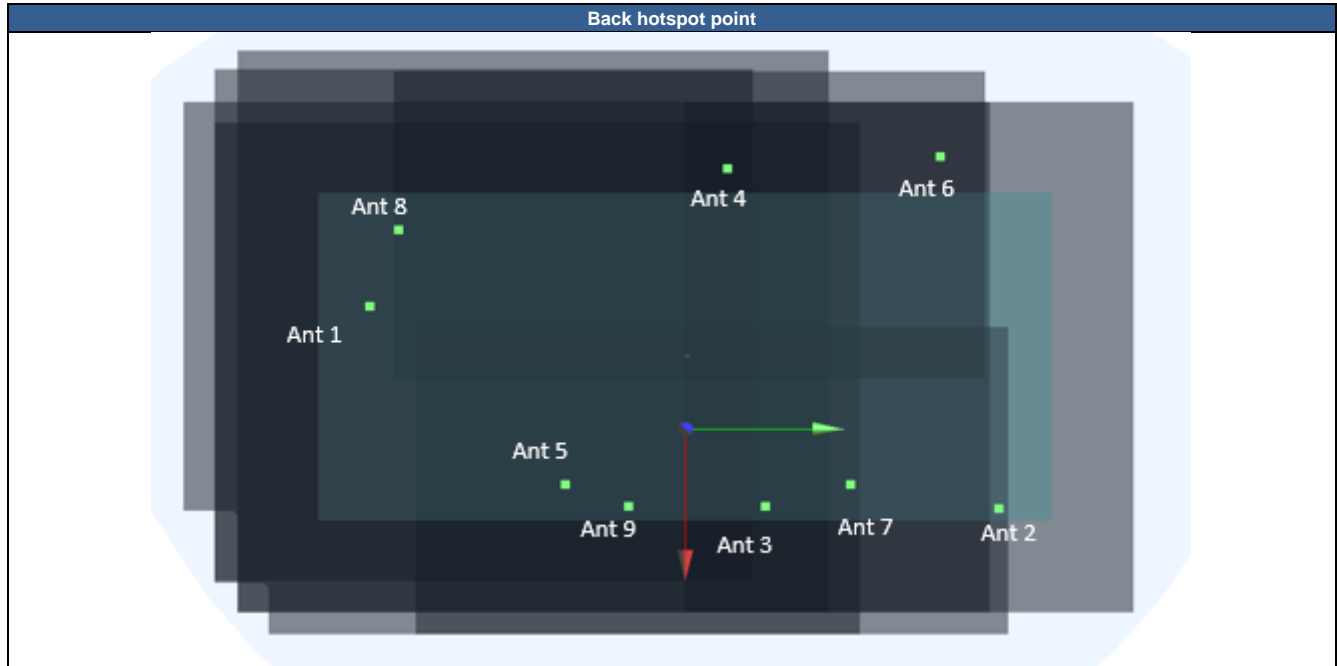


	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 1	WCDMA IV_Ant 1	Right Cheek	0.792	0	55.3	59.69	-0.26	85.2	1.64	0.02	Not required
	WLAN5GHz_Ant 6+7		0.848	0	-17.96	16.35	3.07				
	WCDMA IV_Ant 1	Right Cheek	0.792	0	55.3	59.69	-0.26	80.5	0.80	0.01	Not required
	Bluetooth_Ant 6		0.005	0	4.3	-2.61	-1.88				
	WCDMA IV_Ant 1	Right Cheek	0.792	0	55.3	59.69	-0.26	83.5	0.80	0.01	Not required
	Bluetooth_Ant 7		0.009	0	36.5	-21.62	-2.52				
	WLAN5GHz_Ant 6+7	Right Cheek	0.848	0	-17.96	16.35	3.07	29.7	0.85	0.03	Not required
	Bluetooth_Ant 6		0.005	0	4.3	-2.61	-1.88				
	WLAN5GHz_Ant 6+7	Right Cheek	0.848	0	-17.96	16.35	3.07	71.9	0.86	0.01	Not required
Bluetooth_Ant 7	0.009		0	46.72	-14.7	-1.92					
Case 49	FR1 n77_ANT 8	Right Cheek	0.763	0	60.66	-0.23	0.44	80.4	1.61	0.03	Not required
	WLAN5GHz_Ant 6+7		0.848	0	-17.96	16.35	3.07				
	FR1 n77_ANT 8	Right Cheek	0.763	0	60.66	-0.23	0.44	56.5	0.77	0.01	Not required
	Bluetooth_Ant 6		0.005	0	4.3	-2.61	-1.88				
	FR1 n77_ANT 8	Right Cheek	0.763	0	45.9	62.72	-2.32	77.4	0.77	0.01	Not required
	Bluetooth_Ant 7		0.009	0	46.72	-14.7	-1.92				

Left Cheek hotspot point



Case 2	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 2	WCDMA IV_Ant 1	Left Cheek	0.509	0	53.7	-35.47	-1.84	85.0	1.60	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.087	0	0.89	31.11	-1.26				
Case 36	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n41_Ant 3	Left Cheek	0.656	0	40.1	-61.27	-1.73	100.4	1.74	0.02	Not required
	WLAN5GHz_Ant 6+7		1.081	0	0.89	31.11	-1.26				
	FR1 n41_Ant 3	Left Cheek	0.656	0	40.1	-61.27	-1.73	89.4	0.66	0.01	Not required
	Bluetooth_Ant 6		0.006	0	44.8	28	-0.1				
FR1 n77_Ant 3	Left Cheek	0.741	0	32.77	-56.76	-2.08	29.3	0.74	0.02	Not required	
Bluetooth_Ant 7		0.001	0	6.14	-45.59	2.97					
Case 37	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n77_Ant 3	Left Cheek	0.741	0	32.77	-56.76	-2.08	93.5	1.82	0.03	Not required
	WLAN5GHz_Ant 6+7		1.081	0	0.89	31.11	-1.26				
	FR1 n77_Ant 3	Left Cheek	0.741	0	36.13	-57.94	-2	86.4	0.75	0.01	Not required
	Bluetooth_Ant 6		0.006	0	44.8	28	-0.1				
WLAN5GHz_Ant 6+7	Left Cheek	1.081	0	0.89	31.11	-1.26	77.0	1.08	0.01	Not required	
Bluetooth_Ant 7		0.001	0	6.14	-45.59	2.97					



	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 4	WCDMA II_ANT 1	Back	0.745	10	-12	-73.7	-2.4	136.6	1.97	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	WCDMA II_ANT 1	Back	0.745	10	-12	-73.7	-2.4	163.6	1.94	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	WLAN5GHz_Ant 6+7	Back	1.197	10	-46.2	58.6	-2.29	73.4	1.22	0.02	Not required
	Bluetooth_Ant 6		0.024	10	27	64	-1.7				
	WLAN5GHz_Ant 6+7	Back	1.197	10	-46.2	58.6	-2.29	30.2	1.20	0.04	Not required
	Bluetooth_Ant 7		0.001	10	-38.4	87.8	-1.84				
	WCDMA II_ANT 1	Back	0.745	10	-12	-73.7	-2.4	132.5	1.77	0.02	Not required
	WLAN2.4GHz_Ant 6		1.02	10	-25	58.2	-2.3				
	WLAN2.4GHz_Ant 6	Back	1.02	10	-25	58.2	-2.3	32.5	1.02	0.03	Not required
	Bluetooth_Ant 7		0.001	10	-38.4	87.8	-1.84				
WCDMA II_ANT 1	Back	0.745	10	-12	-73.7	-2.4	140.0	1.94	0.02	Not required	
WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22					
Case 6	WCDMA IV_Ant 1	Back	0.797	10	-11	-63.9	-2.46	127.5	2.02	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	WCDMA IV_Ant 1	Back	0.797	10	-11	-63.9	-2.46	154.2	2.00	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	WCDMA IV_Ant 1	Back	0.797	10	-11	-63.9	-2.46	122.9	1.82	0.02	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	WCDMA IV_Ant 1	Back	0.797	10	-11	-63.9	-2.46	130.2	1.99	0.02	Not required
WLAN2.4GHz_Ant 6+7	1.196		10	-16.8	66.2	-2.22					
Case 8	WCDMA V_Ant 1	Back	0.623	10	8.9	-61.4	-2.24	132.0	1.84	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	WCDMA V_Ant 1	Back	0.623	10	8.9	-61.4	-2.24	156.5	1.82	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	WCDMA V_Ant 1	Back	1.743	10	8.9	-61.4	-2.24	124.3	2.76	0.04	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	WCDMA V_Ant 1	Back	0.623	10	8.9	-61.4	-2.24	130.2	1.82	0.02	Not required
WLAN2.4GHz_Ant 6+7	1.196		10	-16.8	66.2	-2.22					
Case 9	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 9	LTE Band 12_Ant 1	Back	0.419	10	1.6	7.6	-2.39	69.9	1.64	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	LTE Band 12_Ant 1	Back	0.419	10	1.6	7.6	-2.39	89.6	1.62	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	LTE Band 12_Ant 1	Back	0.419	10	1.6	7.6	-2.39	57.2	1.44	0.03	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
LTE Band 12_Ant 1	Back	0.419	10	1.6	7.6	-2.39	61.4	1.62	0.03	Not required	
WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22					
Case 10	LTE Band 13_Ant 1	Back	0.494	10	7.5	-72.2	-2.23	141.4	1.72	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	LTE Band 13_Ant 1	Back	0.494	10	7.5	-72.2	-2.23	166.5	1.69	0.01	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	LTE Band 13_Ant 1	Back	0.494	10	7.5	-72.2	-2.23	140.5	1.69	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 11	LTE Band 14_Ant 1	Back	0.478	10	5.9	-72.1	-2.23	140.7	1.70	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	LTE Band 14_Ant 1	Back	0.478	10	5.9	-72.1	-2.23	165.9	1.68	0.01	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	LTE Band 14_Ant 1	Back	0.478	10	5.9	-72.1	-2.23	140.2	1.67	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 12	LTE Band 25_Ant 1	Back	0.795	10	-15.4	-68.5	-2.43	130.8	2.02	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	LTE Band 25_Ant 1	Back	0.795	10	-15.4	-68.5	-2.43	158.0	1.99	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	LTE Band 25_Ant 1	Back	0.795	10	-15.4	-68.5	-2.43	127.1	1.82	0.02	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	LTE Band 25_Ant 1	Back	0.795	10	-15.4	-68.5	-2.43	139.9	1.00	0.01	Not required
WLAN2.4GHz_Ant 7	0.205		10	23	66	-1.79					
Case 14	LTE Band 26_Ant 1	Back	0.482	10	10.5	-67.5	-2.17	138.3	1.70	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	LTE Band 26_Ant 1	Back	0.482	10	10.5	-67.5	-2.17	162.8	1.68	0.01	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	LTE Band 26_Ant 1	Back	0.482	10	10.5	-67.5	-2.17	130.6	1.50	0.01	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	LTE Band 26_Ant 1	Back	0.482	10	10.5	-67.5	-2.17	136.5	1.68	0.02	Not required
WLAN2.4GHz_Ant 6+7	1.196		10	-16.8	66.2	-2.22					
Case 15	LTE Band 66_Ant 1	Back	0.774	10	-12.5	-62.7	-2.46	125.9	2.00	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	LTE Band 66_Ant 1	Back	0.774	10	-12.5	-62.7	-2.46	152.7	1.90	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.121	10	-38.4	87.8	-1.84				
	LTE Band 66_Ant 1	Back	0.774	10	-12.5	-62.7	-2.46	121.5	1.80	0.02	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	LTE Band 66_Ant 1	Back	0.774	10	-12.5	-62.7	-2.46	129.0	1.97	0.02	Not required
WLAN2.4GHz_Ant 6+7	1.196		10	-16.8	66.2	-2.22					
Case 17	LTE Band 71_Ant 1	Back	0.427	10	1.5	7.5	-2.36	69.9	1.65	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	LTE Band 71_Ant 1	Back	0.427	10	1.5	7.5	-2.36	89.7	1.63	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				



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Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 71_Ant 1	Back	0.427	10	1.5	7.5	-2.36	57.2	1.45	0.03	Not required
	WLAN2.4GHz_Ant 6+7+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	LTE Band 71_Ant 1	Back	0.427	10	1.5	7.5	-2.36	61.5	1.62	0.03	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 18	FR1 n12_Ant 1	Back	0.424	10	6.1	7.7	-2.36	73.0	1.65	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n12_Ant 1	Back	0.424	10	6.1	7.7	-2.36	91.6	1.62	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	FR1 n12_Ant 1	Back	0.424	10	6.1	7.7	-2.36	59.3	1.45	0.03	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	FR1 n12_Ant 1	Back	0.424	10	6.1	7.7	-2.36	62.8	1.62	0.03	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 19	FR1 n13_Ant 1	Back	0.456	10	3.1	-78	-2.17	145.2	1.68	0.01	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n13_Ant 1	Back	0.456	10	3.1	-78	-2.17	170.9	1.65	0.01	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	FR1 n13_Ant 1	Back	0.456	10	3.1	-78	-2.17	139.1	1.48	0.01	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	FR1 n13_Ant 1	Back	0.456	10	3.1	-78	-2.17	145.6	1.65	0.01	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 20	FR1 n14_Ant 1	Back	0.53	10	9.1	-72.1	-2.18	141.9	1.75	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n14_Ant 1	Back	0.53	10	9.1	-72.1	-2.18	166.8	1.73	0.01	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	FR1 n14_Ant 1	Back	0.53	10	9.1	-72.1	-2.18	134.7	1.55	0.01	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	FR1 n14_Ant 1	Back	0.53	10	9.1	-72.1	-2.18	140.7	1.73	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 21	FR1 n25_Ant 1	Back	0.747	10	-15	-75.5	-2.33	137.7	1.97	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n25_Ant 1	Back	0.747	10	-15	-75.5	-2.33	165.0	1.95	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	FR1 n25_Ant 1	Back	0.747	10	-15	-75.5	-2.33	134.1	1.77	0.02	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	FR1 n25_Ant 1	Back	0.747	10	-15	-75.5	-2.33	141.7	1.94	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 23	FR1 n26_Ant 1	Back	0.452	10	12.2	-72.1	-2.18	143.2	1.67	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n26_Ant 1	Back	0.452	10	12.2	-72.1	-2.18	167.7	1.65	0.01	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	FR1 n26_Ant 1	Back	0.452	10	12.2	-72.1	-2.18	135.5	1.47	0.01	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	FR1 n26_Ant 1	Back	0.452	10	12.2	-72.1	-2.18	141.3	1.65	0.01	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 24	FR1 n66_Ant 1	Back	0.729	10	-7.4	-65.9	-2.37	130.4	1.95	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n66_Ant 1	Back	0.729	10	-7.4	-65.9	-2.37	156.8	1.93	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				



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Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n66_Ant 1	Back	0.729	10	-7.4	-65.9	-2.37	125.3	1.75	0.02	Not required
	WLAN2.4GHz_Ant 6+7+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	FR1 n66_Ant 1	Back	0.729	10	-7.4	-65.9	-2.37	132.4	1.93	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 26	FR1 n71_Ant 1	Back	0.426	10	-1.5	7.5	-2.4	67.9	1.65	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n71_Ant 1	Back	0.426	10	-1.5	7.5	-2.4	88.4	1.62	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	FR1 n71_Ant 1	Back	0.426	10	-1.5	7.5	-2.4	55.9	1.45	0.03	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
	FR1 n71_Ant 1	Back	0.426	10	-1.5	7.5	-2.4	60.7	1.62	0.03	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 27	WCDMA II_Ant 1	Back	0.583	15	-12	-76.7	-2.4	145.0	1.70	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth		1.121	15	-26.6	67.6	-2.24				
Case 28	WCDMA IV_Ant 1	Back	0.769	15	-9.5	-76.3	-2.13	144.9	1.89	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth		1.121	15	-26.6	67.6	-2.24				
	WCDMA IV_Ant 1	Back	0.769	15	-9.5	-76.3	-2.13	131.6	1.49	0.01	Not required
	WLAN2.4GHz_Ant 6		0.725	15	-31.6	53.4	-2.13				
	WCDMA IV_Ant 1	Back	0.769	15	-9.5	-76.3	-2.13	111.1	0.88	0.01	Not required
	WLAN2.4GHz_Ant 7		0.115	15	-2.8	34.6	-2.02				
	WLAN2.4GHz_Ant 6	Back	0.725	15	-31.6	53.4	-2.13	34.4	0.84	0.02	Not required
	WLAN2.4GHz_Ant 7		0.115	15	-2.8	34.6	-2.02				
Case 29	LTE Band 12_Ant 1	Back	0.499	15	-5.4	11.9	-2.31	59.6	1.62	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth		1.121	15	-26.6	67.6	-2.24				
Case 30	LTE Band 25_Ant 1	Back	0.622	15	-15.2	-55.2	-2.24	123.3	1.74	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth		1.121	15	-26.6	67.6	-2.24				
Case 32	LTE Band 66_Ant 1	Back	0.79	15	-14.2	-75.1	-1.97	143.2	1.91	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth		1.121	15	-26.6	67.6	-2.24				
Case 34	FR1 n25_ANT 1	Back	0.516	15	-18.5	-72	-1.55	139.8	1.64	0.01	Not required
	WLAN5GHz_Ant 6+7+Bluetooth		1.121	15	-26.6	67.6	-2.24				
Case 35	FR1 n66_ANT 1	Back	0.579	15	-12.9	-62.6	-2.3	130.9	1.70	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth		1.121	15	-26.6	67.6	-2.24				
Case 38	FR1 n77_Ant 3	Back	0.756	10	35	18	-2.06	90.8	1.98	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n77_Ant 3	Back	0.756	10	35	18	-2.06	101.3	1.95	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	FR1 n77_Ant 3	Back	0.756	10	35	18	-2.06	72.2	1.78	0.03	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		1.021	10	-25	58.2	-2.3				
FR1 n77_Ant 3	Back	0.756	10	35	18	-2.06	70.8	1.95	0.04	Not required	
WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22					
Case 39	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous



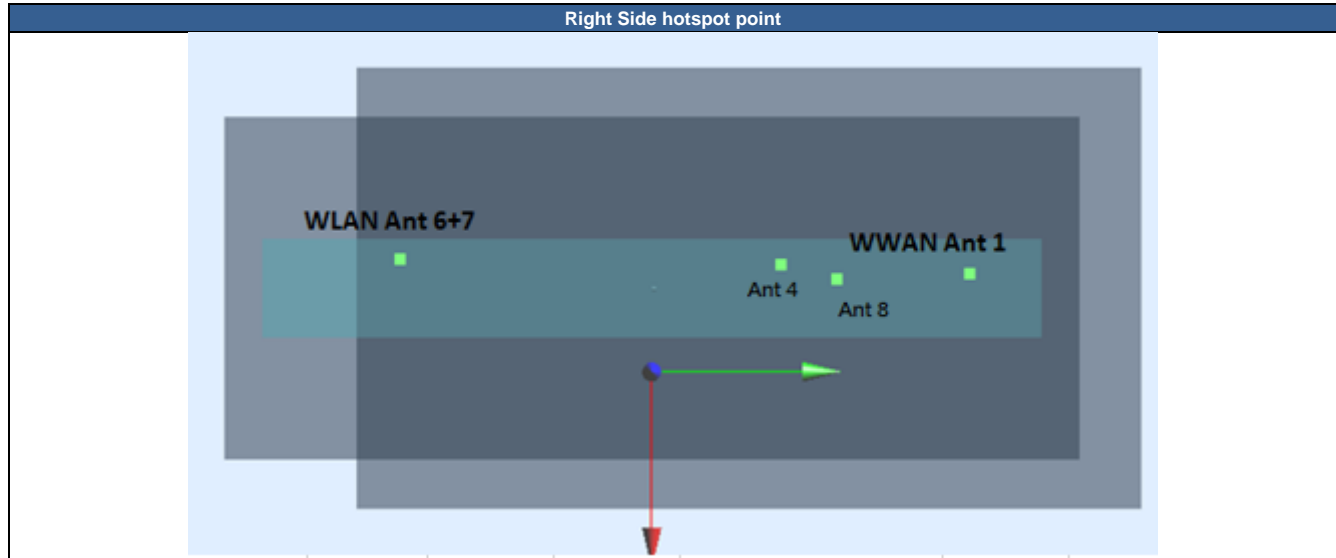
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	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n77_Ant 3	Back	0.509	15	35	12.8	-2.24	82.4	1.63	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth		1.121	15	-26.6	67.6	-2.24				
Case 41	FR1 n77_Ant 4	Back	0.419	10	-42.2	10.4	-2.33	48.4	1.62	0.04	Not required
	WLAN5GHz_Ant 6+7		1.197	10	-46.2	58.6	-2.29				
	FR1 n77_Ant 4	Back	0.419	10	-42.2	10.4	-2.33	87.5	0.44	0.00	Not required
	Bluetooth_Ant 6		0.024	10	27	64	-1.7				
	FR1 n77_Ant 4	Back	0.419	10	-42.2	10.4	-2.33	77.5	0.42	0.00	Not required
	Bluetooth_Ant 7		0.001	10	-38.4	87.8	-1.84				
	FR1 n77_Ant 4	Back	0.419	10	-42.2	10.4	-2.33	61.3	1.62	0.03	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 43	LTE Band 7_Ant 5	Back	0.522	10	34.6	-34.8	-2.16	123.5	1.74	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	LTE Band 7_Ant 5	Back	0.522	10	34.6	-34.8	-2.16	142.7	1.72	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	LTE Band 7_Ant 5	Back	0.522	10	34.6	-34.8	-2.16	113.3	1.72	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 44	LTE Band 25_Ant 5	Back	0.466	10	34.8	-32.8	-2.24	122.1	1.69	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	LTE Band 25_Ant 5	Back	0.466	10	34.8	-32.8	-2.24	141.1	1.66	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.197	10	-38.4	87.8	-1.84				
	LTE Band 25_Ant 5	Back	0.466	10	34.8	-32.8	-2.24	111.6	1.66	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 45	LTE Band 30_Ant 5	Back	0.439	10	29	-26.8	-2.24	113.8	1.66	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	LTE Band 30_Ant 5	Back	0.439	10	29	-26.8	-2.24	133.0	1.64	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	LTE Band 30_Ant 5	Back	0.439	10	29	-26.8	-2.24	103.7	1.64	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 46	FR1 n7_ANT 5	Back	0.501	10	34.8	-43.2	-2.13	130.1	1.72	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n7_ANT 5	Back	0.501	10	34.8	-43.2	-2.13	150.1	1.70	0.01	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.198	10	-38.4	87.8	-1.84				
	FR1 n7_ANT 5	Back	0.501	10	34.8	-43.2	-2.13	121.0	1.70	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 47	FR1 n25_ANT 5	Back	0.415	10	33.9	-31.1	-2.24	120.3	1.64	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n25_ANT 5	Back	0.415	10	33.9	-31.1	-2.24	139.2	1.61	0.01	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.197	10	-38.4	87.8	-1.84				
	FR1 n25_ANT 5	Back	0.415	10	33.9	-31.1	-2.24	109.7	1.61	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22				
Case 48	FR1 n30_ANT 5	Back	0.387	10	29	-26.8	-2.24	113.8	1.61	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.221	10	-46.2	58.6	-2.29				
Case 52											



	FR1 n77_Ant 8	Back	0.5	10	-32	-63	-2.3	122.4	1.70	0.02	Not required
	WLAN5GHz_Ant 6+7		1.197	10	-46.2	58.6	-2.29				
	FR1 n77_Ant 8	Back	0.5	10	-32	-63	-2.3	140.0	0.52	0.00	Not required
	Bluetooth_Ant 6		0.024	10	27	64	-1.7				
	FR1 n77_Ant 8	Back	0.5	10	-32	-63	-2.3	150.9	0.50	0.00	Not required
	Bluetooth_Ant 7		0.001	10	-38.4	87.8	-1.84				
FR1 n77_Ant 8	Back	0.5	10	-32	-63	-2.3	130.1	1.70	0.02	Not required	
WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22					
Case 55	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n48_Ant 9	Back	0.393	10	32.2	-14.1	-2.3	124.0	1.59	0.02	Not required
WLAN5GHz_Ant 6+7+BT Ant 6	1.198		10	-38.4	87.8	-1.84					
Case 57	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	FR1 n77_Ant 9	Back	0.416	10	32.6	-14	-2.26	107.1	1.64	0.02	Not required
	WLAN5GHz_Ant 6+7+BT Ant 6		1.221	10	-46.2	58.6	-2.29				
	FR1 n77_Ant 9	Back	0.416	10	32.6	-14	-2.26	124.1	1.61	0.02	Not required
	WLAN5GHz_Ant 6+7+BT Ant 7		1.198	10	-38.4	87.8	-1.84				
FR1 n77_Ant 9	Back	0.416	10	32.6	-14	-2.26	94.2	1.61	0.02	Not required	
WLAN2.4GHz_Ant 6+7		1.196	10	-16.8	66.2	-2.22					



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 5	WCDMA II_Ant 1	Right Side	0.5	10	0	20.7	-2.35	83.0	1.72	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.216	10	-4.4	-62.2	-2.36				
	WCDMA II_Ant 1	Right Side	0.5	10	0	20.7	-2.35				
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.199	10	-4.4	-62.2	-2.36				
Case 7	WCDMA IV_Ant 1	Right Side	0.481	10	0.2	20.5	-2.35	82.8	1.70	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.216	10	-4.4	-62.2	-2.36				
	WCDMA IV_Ant 1	Right Side	0.481	10	0.2	20.5	-2.35				
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.199	10	-4.4	-62.2	-2.36				
Case 13	LTE Band 25_Ant 1	Right Side	0.505	10	-4.6	65.4	-1.97	127.6	1.72	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.216	10	-4.4	-62.2	-2.36				
	LTE Band 25_Ant 1	Right Side	0.505	10	-4.6	65.4	-1.97				
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.199	10	-4.4	-62.2	-2.36				
Case 16	LTE Band 66_Ant 1	Right Side	0.432	10	0.3	20.7	-2.37	83.0	1.65	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.216	10	-4.4	-62.2	-2.36				
	LTE Band 66_Ant 1	Right Side	0.432	10	0.3	20.7	-2.37				
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.199	10	-4.4	-62.2	-2.36				
Case 22	FR1 n25_Ant 1	Right Side	0.542	10	-4.6	65.4	-1.97	127.6	1.76	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.216	10	-4.4	-62.2	-2.36				
	FR1 n25_Ant 1	Right Side	0.542	10	-4.6	65.4	-1.97				
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.199	10	-4.4	-62.2	-2.36				
Case 25	FR1 n66_Ant 1	Right Side	0.419	10	0.2	20.5	-2.35	82.8	1.64	0.03	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.216	10	-4.4	-62.2	-2.36				
	FR1 n66_Ant 1	Right Side	0.419	10	0.2	20.5	-2.35				
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.199	10	-4.4	-62.2	-2.36				
Case 42	FR1 n77_Ant 4	Right Side	0.79	10	-6	1.3	-2.46	63.5	2.01	0.04	Not required
	WLAN5GHz_Ant 6+7+Bluetooth		1.216	10	-4.4	-62.2	-2.36				
	FR1 n77_Ant 4	Right Side	0.79	10	-6	1.3	-2.46				



Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7	Right Side	0.977	10	-13.2	-50.4	-2.44	63.4	1.82	0.04	Not required
	FR1 n77_Ant 4		0.79	10	-6	1.3	-2.46				
	WLAN2.4GHz_Ant 6+7		1.025	10	-12.2	-61.8	-2.43				
Case 50	LTE Band 48_Ant 8	Right Side	0.772	10	1.2	57.6	-2.11	119.9	1.99	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.216	10	-4.4	-62.2	-2.36				
	LTE Band 48_Ant 8	Right Side	0.772	10	1.2	57.6	-2.11	109.0	1.75	0.02	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		0.977	10	-13.2	-50.4	-2.44				
	LTE Band 48_Ant 8	Right Side	0.772	10	1.2	57.6	-2.11	120.1	1.80	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.025	10	-12.2	-61.8	-2.43				
	LTE Band 48_Ant 8	Right Side	0.772	10	1.2	57.6	-2.11	119.9	1.97	0.02	Not required
WLAN5GHz_Ant 6+7+Bluetooth_Ant 7	1.199		10	-4.4	-62.2	-2.36					
Case 51	FR1 n47_Ant 8	Right Side	0.786	10	-2.6	54.8	-2.12	117.0	2.00	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.216	10	-4.4	-62.2	-2.36				
	FR1 n47_Ant 8	Right Side	0.786	10	-2.6	54.8	-2.12	105.7	1.76	0.02	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		0.977	10	-13.2	-50.4	-2.44				
	FR1 n47_Ant 8	Right Side	0.786	10	-2.6	54.8	-2.12	117.0	1.81	0.02	Not required
	WLAN2.4GHz_Ant 6+7		1.025	10	-12.2	-61.8	-2.43				
	FR1 n47_Ant 8	Right Side	0.786	10	-2.6	54.8	-2.12	117.0	1.99	0.02	Not required
WLAN5GHz_Ant 6+7+Bluetooth_Ant 7	1.199		10	-4.4	-62.2	-2.36					
Case 53	FR1 n77_Ant 8	Right Side	0.765	10	2.6	58	-2.06	120.4	1.98	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 6		1.216	10	-4.4	-62.2	-2.36				
	FR1 n77_Ant 8	Right Side	0.765	10	2.6	58	-2.06	109.5	1.74	0.02	Not required
	WLAN2.4GHz_Ant 6+Bluetooth_Ant 7		0.977	10	-13.2	-50.4	-2.44				
	FR1 n77_Ant 8	Right Side	0.765	10	2.6	58	-2.06	120.4	1.96	0.02	Not required
	WLAN5GHz_Ant 6+7+Bluetooth_Ant 7		1.199	10	-4.4	-62.2	-2.36				
	FR1 n77_Ant 8	Right Side	0.765	10	2.6	58	-2.06	120.7	1.79	0.02	Not required
WLAN2.4GHz_Ant 6+7	1.025		10	-12.2	-61.8	-2.43					

Left Side hotspot point

Case	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 56	FR1 n48_Ant 9	Left Side	0.799	10	-8.4	-23.8	-2.52	63.0	1.60	0.03	Not required
	WLAN5GHz_Ant 6+7+BT Ant 6		0.796	10	-7.2	39.2	-2.24				
	FR1 n48_Ant 9	Left Side	0.799	10	-8.4	-23.8	-2.52	63.0	1.60	0.03	Not required
	WLAN5GHz_Ant 6+7+BT Ant 7		0.796	10	-7.2	39.2	-2.24				

Test Engineer : Kevin Guo and Bevis Chang

15. Uncertainty Assessment

Declaration of Conformity:

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

Comments and Explanations:

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

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

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

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

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

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

(b) κ is the coverage factor

Standard Uncertainty for Assumed Distribution

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

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

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



Applicable for SAR Measurements:

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



Applicable for Power Density Measurements:

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

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