

TEST REPORT

Applicant: MEFERI TECHNOLOGIES CO.,LTD.
Address: 5F, A5, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610000, Chengdu, Sichuan, China
Equipment Type: Mobile Computer
Model Name: ME63
Brand Name: MEFERI
FCC ID: 2A9LJ-ME63
Test Standard: FCC 47 CFR Part 2.1093 (refer section 3.1)
Maximum SAR: Head (1 g@0mm): 0.85W/kg
Body-worn (1 g@10mm): 0.97W/kg
Hotspot (1 g@10mm): 0.97W/kg
Specific (10 g@0mm): 0.51W/kg
Sample Arrival Date: Aug.19,2025
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ISSUED BY:

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Dec. 03, 2025</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Dec. 12, 2025</u>	<u>Updated report attachment BL-SH2580913-AP;</u> <u>Recalculated the SAR values for GSM and LTE bands;</u> <u>Add LTE B4 Exemption Explanation;</u> <u>Update 2.4G WiFi antenna number;</u> <u>Update SIMULTANEOUS TRANSMISSION data.</u>
<u>Rev. 03</u>	<u>Jan. 06, 2026</u>	<u>Add data related to Wi-Fi 6G power, SAR, and test device information, liquid,system verification; update attachments document:BL-SH2580913-ASC, BL-SH2580913-ATD; Add attachments document: BL-SH2580913-AC-1,the original reports are invalid.</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name1	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address1	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Name2	Shenzhen BALUN Technology Co., Ltd.
Address2	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China

1.2 Test Location

Name1	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location1	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 29671.
Name2	Shenzhen BALUN Technology Co., Ltd.
Location2	1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	MEFERI TECHNOLOGIES CO., LTD.
Address	5F, A5, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610000, Chengdu, Sichuan, China

2.2 Manufacturer Information

Manufacturer	MEFERI TECHNOLOGIES CO., LTD.
Address	5F, A5, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610000, Chengdu, Sichuan, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Computer
Model Name Under Test	ME63
Series Model Name	ME63P, ME63T, ME63H, ME63L, ME63S, ME63J, ME63_EEA, ME63_ROW
Description of Model name differentiation	All models are identical to each other construction and critical components, but only differ in colors and sales channels.
Hardware Version	V1.0
Software Version	ME63_EN_GE_V01_Q3_H01
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	BATME6X
	Serial No.	N/A
	Capacity	5000mAh
	Rated Voltage	3.85V
	Limit Charge Voltage	4.4V

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 3G Network WCDMA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/17/19/25/26/66/71 LTE TDD Band 38/41/42/43 5G Network FDD NR n2/n5/n7/n25/n66/n71 TDD NR n38/n41/n77/n78 ENDC DC_2A_n77A, DC_2A_n78A, DC_5A_n41A, DC_5A_n77A,DC_5A_n78A, DC_7A_n77A, DC_7A_n78A, DC_26A_n41A,DC_26A_n78A, DC_38A_n78A, DC_41A_n77A, DC_41A_n78A,DC_66A_n77A, DC_66A_n78A, DC_71A_n41A, DC_71A_n77A,DC_71A_n78A Bluetooth 2.4G WIFI 802.11b, 802.11g, 802.11n HT20/40 ,802.11ax HE20/40 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160),802.11ax(HE20/40/80/160) 6G WIFI 802.11ax(HE20/40/80/160) GPS,GLONASS, BDS, Galileo, NFC
Note: The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA, LTE and NR, Both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.	

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746~ 756 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26	TX: 814 ~ 849 MHz	RX: 859 ~ 894 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	LTE Band 42	TX: 3450 ~ 3550 MHz	RX: 3450 ~ 3550 MHz
	LTE Band 43	TX: 3700 ~ 3800 MHz	RX: 3700 ~ 3800 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz

	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	5G NR n2	TX: 1850 ~ 1910 MHz	RX: 1930~ 1990 MHz
	5G NR n5	TX: 824 ~849 MHz	RX: 869 ~ 894 MHz
	5G NR n7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	5G NR n25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	5G NR n38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	5G NR n41	TX: 2496~ 2690 MHz	RX: 2496~ 2690 MHz
	5G NR n66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	5G NR n71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	5G NR n77	TX: 3450~ 3980MHz	RX: 3450~ 3980MHz
	5G NR n78	TX: 3450~ 3880MHz	RX: 3450~ 3880MHz
	2.4G WIFI	2412 ~ 2462 MHz	
	5G WIFI	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
6G WIFI	5925 ~ 7125 MHz		
Bluetooth	2402 ~ 2480 MHz		
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna NFC: loop Antenna		
DTM	N/A		
Hotspot Function	Support		
Power Reduction	Not support		
Exposure Category	General Population/Uncontrolled exposure		
Product Type	Portable Device		
EUT Type	☒ Production unit	☐ Identical prototype	

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
5	KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	KDB 941225 D05A v01r02	REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES
7	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
8	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	KDB 865664 D02 v01r02	RF Exposure Reporting
10	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
11	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. 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.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. 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. This 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.

3.3 Test Result Summary

3.3.1 Highest SAR Values

Equipment Class	Band	Maximum Scaled SAR (W/kg)				Maximum Report SAR (W/kg)			
		Head (0mm)	Body-worn (10mm)	Hotspot (10mm)	Specific (0mm)	Head (0mm)	Body-worn (10mm)	Hotspot (10mm)	Specific (0mm)
		1g SAR			10g SAR	1g SAR			10g SAR
PCE	GSM 850	0.43	0.77	0.77	/	0.85	0.97	0.97	0.51
	GSM 1900	0.29	0.71	0.71	/				
	WCDMA Band 2	0.27	0.73	0.73	/				
	WCDMA Band 4	0.36	0.76	0.76	/				
	WCDMA Band 5	0.13	0.29	0.29	/				
	LTE Band 2	0.22	0.52	0.52	/				
	LTE Band 5	0.12	0.22	0.22	/				
	LTE Band 7	0.02	0.44	0.44	/				
	LTE Band 12	0.09	0.21	0.21	/				
	LTE Band 13	0.09	0.15	0.15	/				
	LTE Band 25	0.19	0.59	0.59	/				
	LTE Band 26	0.11	0.22	0.22	/				
	LTE Band 66	0.25	0.54	0.54	/				
	LTE Band 71	0.01	0.03	0.03	/				
	LTE Band 38	0.01	0.35	0.35	/				
	LTE Band 41	0.01	0.40	0.40	/				
	LTE Band 42	0.04	0.51	0.51	/				
	LTE Band 43	0.07	0.77	0.77	/				
	NR 2	0.37	0.64	0.64	/				
	NR 5	0.07	0.19	0.19	/				
	NR 7	0.03	0.68	0.68	/				
	NR 25	0.35	0.61	0.61	/				
	NR 66	0.45	0.51	0.51	/				
	NR 71	0.00	0.02	0.02	/				
	NR 38	0.64	0.62	0.62	/				
	NR 41	0.85	0.97	0.97	/				
	NR 77	0.08	0.77	0.77	/				
	NR 78	0.08	0.88	0.88	/				
DTS	2.4G WLAN	0.52	0.16	0.16	/				
NII	5.2G WIFI	/	/	0.25	/				
	5.3G WIFI	0.35	0.22	/	0.24				
	5.6G WIFI	0.31	0.25	/	0.29				
	5.8G WIFI	0.29	/	0.50	/				
	6G WIFI	0.51	0.45	0.63	0.51				
DSS	Bluetooth	0.02	0.01	0.01	/				

Limit (W/kg)	1.6	4.0	1.6	4.0
Verdict	PASS			

Note 1: This device supports LTE B12, LTE B17 and LTE B2, LTE B25 and LTE B4, LTE B66. Since the supported frequency span for LTE B17 falls completely within the supports frequency span for LTE B12, Since the supported frequency span for LTE B2 falls completely within the supports frequency span for LTE B25; Since the supported frequency span for LTE B4 falls completely within the supports frequency span for LTE B66; these LTE bands share the same transmission path, and B12 have same target power as LTE B17, and LTE B2 have same target power as LTE B25; LTE B4 have same target power as LTE B66; Therefore, SAR was only assessed for LTE B12, LTE B25, LTE B66.

Note 2: The SAR-related data for 6G WIFI comes from the No. BL-SH2580913-703 which is issued by Shenzhen BALUN Technology Co., Ltd.

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Scaled SAR (W/kg)			
	Head 1g (0mm)	Body-worn 1g (10mm)	Hotspot 1g (10mm)	Specific 10g (0mm)
PCE	1.10	1.38	1.47	/
DTS	1.10	1.11	1.11	/
NII	1.04	1.38	1.47	/
DSS	1.10	1.38	1.47	/
Limit (W/Kg)	1.60	1.60	1.60	4.00
Verdict	Pass			
Note: The highest simultaneous SAR please refer section 11				

3.4 Test Uncertainty

3.4.1 Measurement uncertainty evaluation for SAR test

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEC/IEEE 62209-1528. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1) System Measurement Uncertainty (Frequency range from 300 MHz to 3 GHz)

DASY5 Uncertainty Budget (Frequency band: 300 MHz - 3 GHz range)								
Symbol	Error Description	Uncert. value	Prob Dist.	Div	(c) 1g	(c) 10g	Std. Unc. (1g)	Std. Unc. (10g)
Measurement System Errors								
CF	Probe Calibration	$\pm 12.0\%$	N	2	1	1	$\pm 6.0\%$	$\pm 6.0\%$
CF _{drift}	Probe Calibration Drift	$\pm 1.0\%$	N	1	1	1	$\pm 1.0\%$	$\pm 1.0\%$
LIN	Probe Linearity	$\pm 4.7\%$	R	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$
BBS	Broadband Signal	$\pm 3.0\%$	N	2	1	1	$\pm 1.5\%$	$\pm 1.5\%$
ISO	Probe Isotropy	$\pm 7.6\%$	R	$\sqrt{3}$	1	1	$\pm 4.4\%$	$\pm 4.4\%$
DAE	Data Acquisition	$\pm 0.3\%$	N	1	1	1	$\pm 0.3\%$	$\pm 0.3\%$
AMB	RF Ambient	$\pm 1.8\%$	N	1	1	1	$\pm 1.8\%$	$\pm 1.8\%$
Δ_{sys}	Probe Positioning	$\pm 0.2\%$	N	1	0.1 4	0.14	$\pm 0\%$	$\pm 0\%$
DAT	Data Processing	$\pm 1.2\%$	N	1	1	1	$\pm 1.2\%$	$\pm 1.2\%$
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	$\pm 2.5\%$	N	1	0.7 8	0.71	$\pm 2.0\%$	$\pm 1.8\%$
LIQ(T_{σ})	Conductivity (temp.) ^{BB}	$\pm 3.3\%$	R	$\sqrt{3}$	0.7 8	0.71	$\pm 1.5\%$	$\pm 1.4\%$
EPS	Phantom Permittivity	$\pm 14.0\%$	R	$\sqrt{3}$	0	0	$\pm 0\%$	$\pm 0\%$
DAS	Distance DUT - TSL	$\pm 2.1\%$	N	1	2	2	$\pm 4.2\%$	$\pm 4.2\%$
H	Device Holder	$\pm 3.8\%$	N	1	1	1	$\pm 3.8\%$	$\pm 3.8\%$
MOD	DUT Modulation ^m	$\pm 2.4\%$	R	$\sqrt{3}$	1	1	$\pm 1.4\%$	$\pm 1.4\%$
TAS	Time-average SAR	$\pm 2.6\%$	R	$\sqrt{3}$	1	1	$\pm 1.5\%$	$\pm 1.5\%$
RF _{drift}	DUT drift	$\pm 5.0\%$	R	$\sqrt{3}$	1	1	$\pm 2.9\%$	$\pm 2.9\%$
Correction to the SAR results								
C(ϵ , σ)	Deviation to Target	$\pm 1.9\%$	N	1	1	0.84	$\pm 1.9\%$	$\pm 1.6\%$
C(R)	SAR scaling ^p	$\pm 0\%$	R	$\sqrt{3}$	1	1	$\pm 0\%$	$\pm 0\%$
u(Δ SAR)	Combined Uncertainty						$\pm 11.2\%$	$\pm 11.0\%$
U	Expanded Uncertainty						$\pm 22.3\%$	$\pm 22.2\%$

2) System Measurement Uncertainty (Frequency range from 3 GHz to 6 GHz)

DASY5 Uncertainty Budget (Frequency band: 3 GHz - 6 GHz range)								
Symbol	Error Description	Uncert. value	Prob. Dist.	Div	(c) 1g	(c) 10g	Std. Unc. (1g)	Std. Unc. (10g)
Measurement System Errors								
CF	Probe Calibration	±14.0%	N	2	1	1	±7.0%	±7.0%
CF _{drift}	Probe Calibration Drift	±1.0%	N	1	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±3.0%	N	2	1	1	±1.5%	±1.5%
ISO	Probe Isotropy	±7.6%	R	√3	1	1	±4.4%	±4.4%
DAE	Data Acquisition	±0.3%	N	1	1	1	±0.3%	±0.3%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.2%	N	1	0.3 3	0.33	±0.1%	±0.1%
DAT	Data Processing	±2.3%	N	1	1	1	±2.3%	±2.3%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	±2.5%	N	1	0.7 8	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.) ^{BB}	±3.4%	R	√3	0.7 8	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	√3	0.2 5	0.25	±2.0%	±2.0%
DAS	Distance DUT - TSL	±2.1%	N	1	2	2	±4.2%	±4.2%
H	Device Holder	±3.8%	N	1	1	1	±3.8%	±3.8%
MOD	DUT Modulation ^m	±2.4%	R	√3	1	1	±1.4%	±1.4%
TAS	Time-average SAR	±2.6%	R	√3	1	1	±1.5%	±1.5%
RF _{drift}	DUT drift	±5.0%	R	√3	1	1	±2.9%	±2.9%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
C(R)	SAR scaling ^p	±0%	R	√3	1	1	±0%	±0%
u(ΔSAR)	Combined Uncertainty						±12.1%	±12.0%
U	Expanded Uncertainty						±24.2%	±24.0%

3.4.2 Measurement uncertainty evaluation for system check

This measurement uncertainty budget is suggested by IEC/IEEE 62209-1528. The breakdown of the individual uncertainties is as follows:

DASY5 Uncertainty Budget (Frequency band: 300 MHz - 6 GHz range)								
Symbol	Error Description	Uncert. value	Prob. Dist.	Div.	(c _i) 1g	(c _i) 10g	Std. Unc. (1g)	Std. Unc. (10g)
Measurement System Errors								
CF	Probe Calibration	±14.0%	N	2	1	1	±7.0%	±7.0%
CF _{drift}	Probe Calibration Drift	±1.0%	N	1	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	√3	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±0.0%	N	2	1	1	±0.0%	±0.0%
ISO	Probe Isotropy	±7.6%	R	√3	1	1	±4.4%	±4.4%
DAE	Data Acquisition	±0.3%	N	1	1	1	±0.3%	±0.3%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.2%	N	1	0.33	0.33	±0%	±0%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.) ^{DAK}	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.) ^{BB}	±3.4%	R	√3	0.78	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	√3	0.25	0.25	±2.0%	±2.0%
DAS	Distance DUT - TSL	±1.0%	N	1	2	2	±2.0%	±2.0%
VAL	Validation antenna	±0.0%	R	√3	1	1	±0.0%	±0.0%
P _{in}	Accepted power	±1.2%	N	1	1	1	±1.2%	±1.2%
RF _{drift}	DUT drift	±5.0%	R	√3	1	1	±2.9%	±2.9%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
u(ΔSAR)	Combined Uncertainty						±10.4%	±10.3%
U	Expanded Uncertainty						±20.7%	±20.5%

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

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.

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

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

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

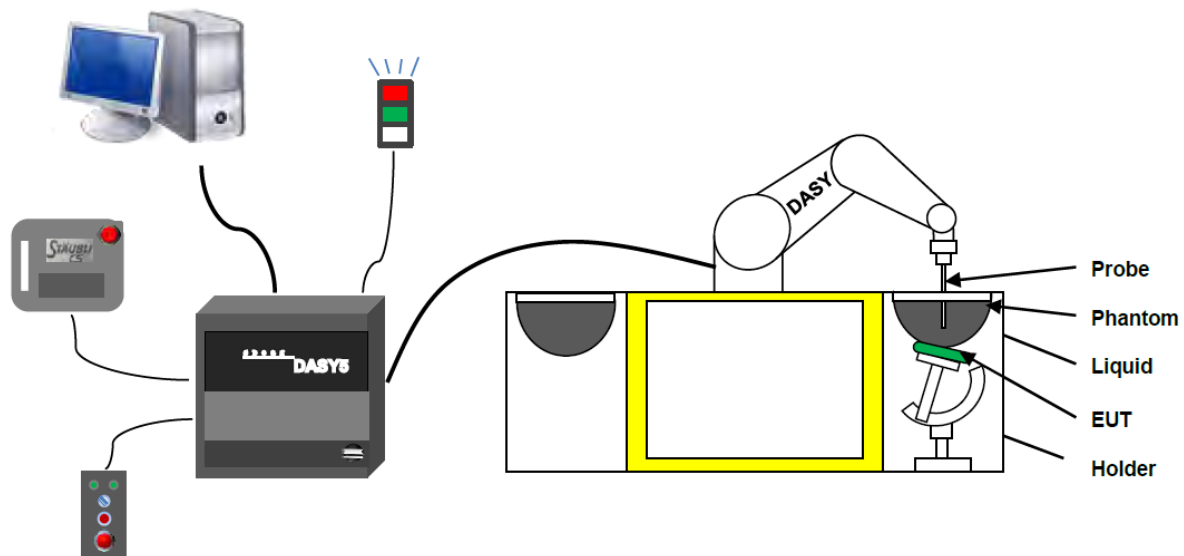
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram

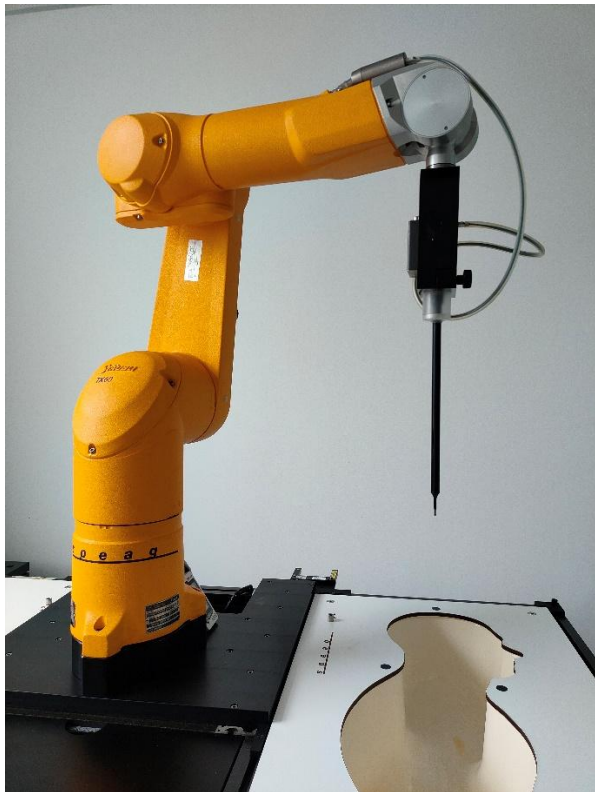


The DASY5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (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.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision
(repeatability ± 0.02 mm)
- High reliability
(industrial design)
- Low maintenance costs
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycoether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz; Linearity: ± 0.2 dB
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

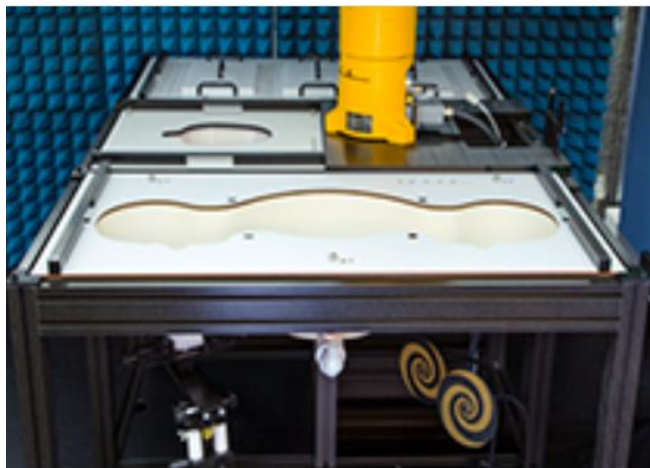
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



- Input Impedance: 200M Ω m
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left head
- Right head
- Flat phantom

Photo of Phantom SN1473



Serial Number	Material	Length	Height
SN 1473 SAM1	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . 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. This device holder is used for standard mobile phones or PDA's only. If necessary an additional support of polystyrene material is used. Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.

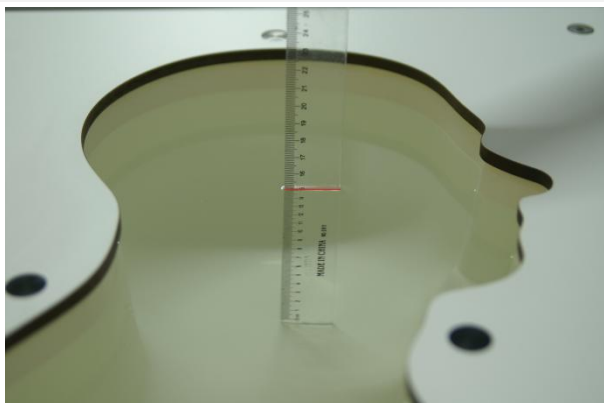


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1° .

4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.

Head Liquid Depth



Body Liquid Depth



The following table gives the recipes for tissue simulating liquid.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

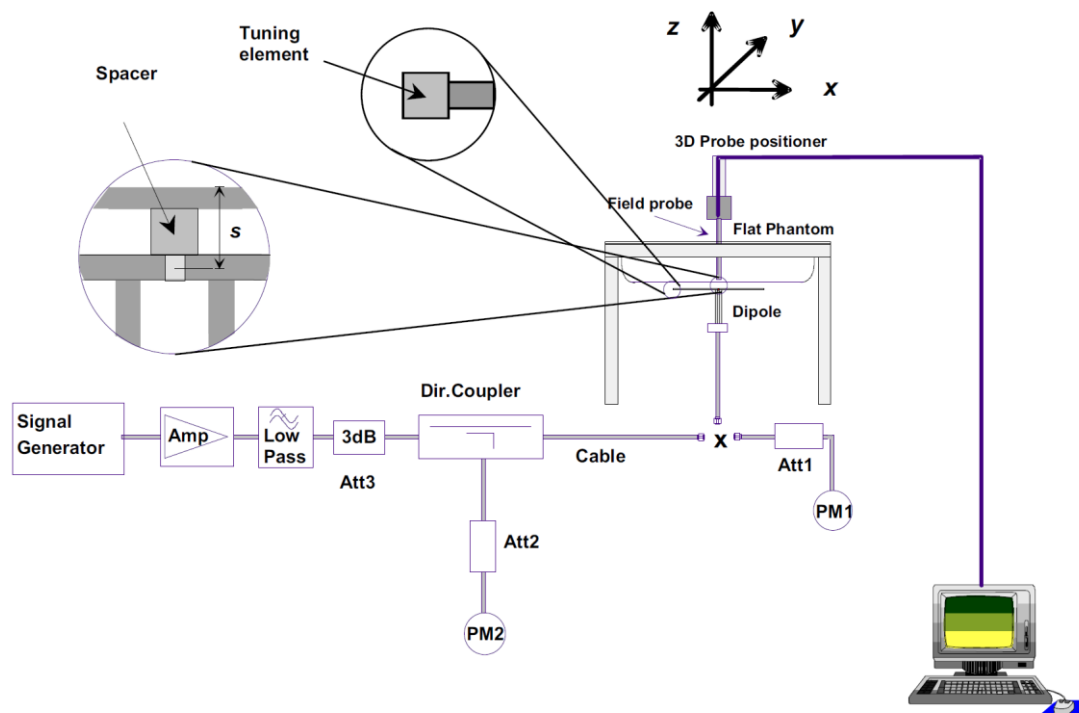
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 TEST POSITION CONFIGURATIONS

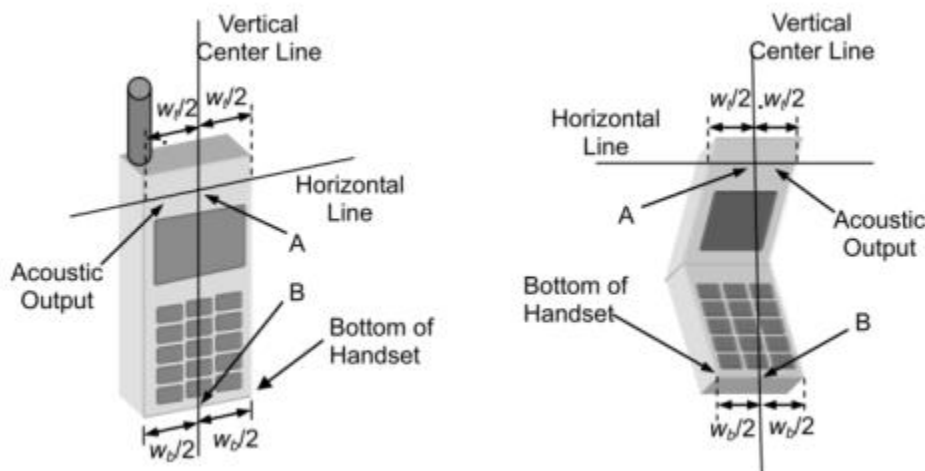
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

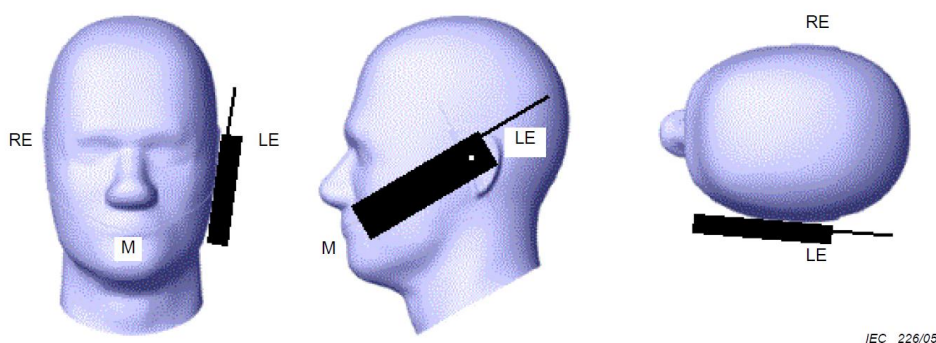
6.1.1 Two Imaginary Lines on the Handset

- The vertical center line 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, and the midpoint of the width w_b of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- 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 center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



6.1.2 Cheek Position

- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



6.1.3 Tilted Position

- (a) To position the device in the “cheek” position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

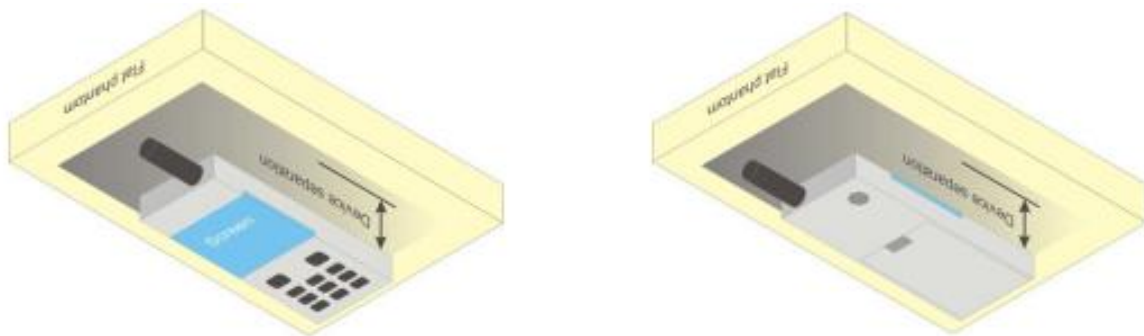


6.2 Body-worn Position Conditions

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 KDB 447498 are 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 the reported SAR for a body-worn accessory.

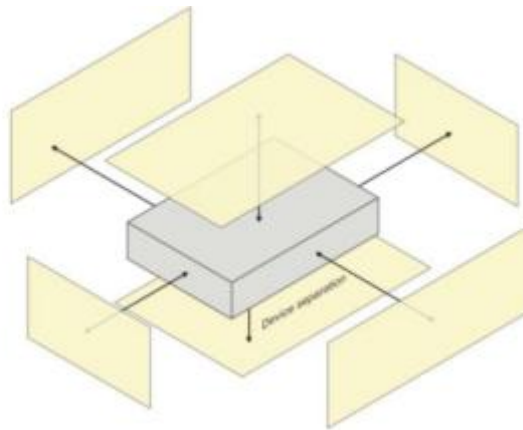
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 5 mm to support compliance.



6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



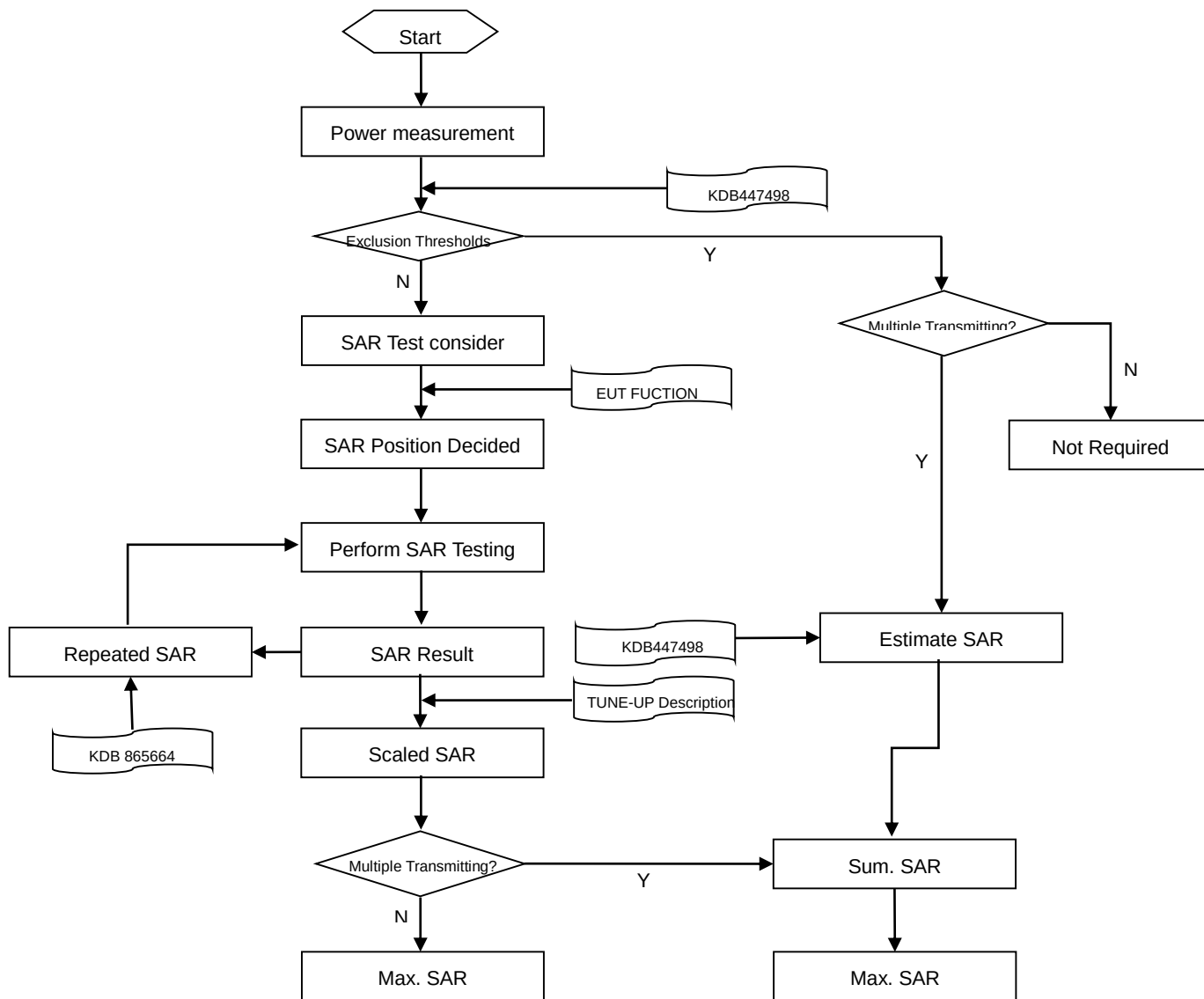
6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, 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, unless it is confirmed otherwise through KDB inquiries, 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;

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. 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.

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	½·δ·ln(2)±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: Δx Area , Δy Area			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy 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: Δz Zoom (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
		Δz Zoom (n>1): between subsequent points	≤ 1.5·Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm

Note:

1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation 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 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

8 CONDUCTED RF OUPUT POWER

8.1 GSM

Please refer the document “BL-SH2580913-AP.pdf”.

8.2 WCDMA

Please refer the document “BL- SH2580913-AP.pdf”.

8.3 LTE

Please refer the document “BL- SH2580913-AP.pdf”.

8.4 5G NR

Please refer the document “BL- SH2580913--AP.pdf”.

8.5 WIFI

8.5.1 2.4G WIFI ANT2

Band	Mode	Channel	Freq. (MHz)	Meas. Power (dBm)	Tune up (dBm)	SAR Test Require.
2.4 (2.4~2.483.5)	802.11b	1	2412	13.85	15.00	No
		6	2437	13.80	15.00	No
		11	2462	14.13	15.00	Yes
	802.11g	1	2412	13.90	15.00	No
		6	2437	13.69	14.50	No
		11	2462	13.93	15.00	No
	802.11n (HT20)	1	2412	13.45	14.50	No
		6	2437	13.27	14.50	No
		11	2462	13.48	14.50	No
	802.11n (HT40)	3	2422	12.86	14.00	No
		6	2437	12.85	14.00	No
		9	2452	12.67	13.50	No
	802.11ax(HE20)	1	2412	12.66	13.50	No
		6	2437	12.77	14.00	No
		11	2462	12.75	13.50	No
	802.11ax(HE40)	3	2422	11.30	12.50	No
		6	2437	11.15	12.00	No
		9	2452	11.01	12.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.

8.5.2.2.4G WIFI ANT3

Band	Mode	Channel	Freq. (MHz)	Meas. Power (dBm)	Tune up (dBm)	SAR Test Require.
2.4 (2.4~2.483.5)	802.11b	1	2412	14.89	16.00	No
		6	2437	14.97	16.00	Yes
		11	2462	14.91	16.00	No
	802.11g	1	2412	14.79	16.00	No
		6	2437	14.81	16.00	No
		11	2462	14.89	16.00	No
	802.11n (HT20)	1	2412	13.58	14.50	No
		6	2437	13.71	14.50	No
		11	2462	13.73	14.50	No
	802.11n (HT40)	3	2422	13.44	14.50	No
		6	2437	13.17	14.00	No
		9	2452	13.33	14.50	No
	802.11ax(HE20)	1	2412	12.96	14.00	No
		6	2437	12.85	14.00	No
		11	2462	12.60	13.50	No
	802.11ax(HE40)	3	2422	12.41	13.50	No
		6	2437	12.08	13.00	No
		9	2452	12.22	13.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.

8.5.3 5G WIFI ANT2

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	10.06	11.00	No
		44	5220	10.15	11.00	No
		48	5240	10.36	11.50	Yes

	802.11n(HT20)	36	5180	8.79	10.00	No
		44	5220	9.53	10.50	No
		48	5240	9.72	10.50	No
	802.11n(HT40)	38	5190	8.38	9.50	No
		46	5230	8.82	10.00	No
	802.11ac(VHT20)	36	5180	8.18	9.00	No
		44	5220	8.51	9.50	No
		48	5240	8.70	9.50	No
	802.11ac(VHT40)	38	5190	7.53	8.50	No
		46	5230	7.72	8.50	No
	802.11ac(VHT80)	42	5210	6.83	8.00	No
	802.11ax-HE20	36	5180	8.22	9.00	No
		44	5220	8.62	9.50	No
		48	5240	8.74	9.50	No
	802.11ax-HE40	38	5190	7.11	8.00	No
		46	5230	7.56	8.50	No
	802.11ax-HE80	42	5210	7.37	8.50	No
5.3 (5.25~5.35)	802.11a	52	5260	10.87	12.00	Yes
		60	5300	10.67	11.50	No
		64	5320	10.80	12.00	No
	802.11n(HT20)	52	5260	9.68	10.50	No
		60	5300	9.61	10.50	No
		64	5320	9.69	10.50	No
	802.11n(HT40)	54	5270	9.02	10.00	No
		62	5310	8.91	10.00	No
	802.11ac(VHT20)	52	5260	8.74	9.50	No
		60	5300	8.61	9.50	No
		64	5320	8.73	9.50	No
	802.11ac(VHT40)	54	5270	7.76	9.00	No
		62	5310	8.14	9.00	No
	802.11ac(VHT80)	58	5290	6.92	8.00	No
	802.11ac(VHT160)	50	5250	6.09	7.00	No
	802.11ax-HE20	52	5260	8.77	10.00	No
		60	5300	8.62	9.50	No
		64	5320	8.75	10.00	No
	802.11ax-HE40	54	5270	7.57	8.50	No
		62	5310	7.99	9.00	No
	802.11ax-HE80	58	5290	7.81	9.00	No
	802.11ax-HE160	50	5250	6.17	7.00	No

5.6 (5.47~5.725)	802.11a	100	5500	9.64	10.50	No
		116	5580	9.13	10.00	No
		140	5700	9.75	11.00	Yes
	802.11n(HT20)	100	5500	8.59	9.50	No
		116	5580	8.09	9.00	No
		140	5700	9.04	10.00	No
	802.11n(HT40)	102	5510	8.28	9.50	No
		118	5590	7.50	8.50	No
		134	5670	7.98	9.00	No
	802.11ac(VHT20)	100	5500	7.66	8.50	No
		116	5580	7.24	8.00	No
		140	5700	7.29	8.50	No
	802.11ac(VHT40)	102	5510	6.95	8.00	No
		118	5590	6.55	7.50	No
		134	5670	7.10	8.00	No
	802.11ac(VHT80)	106	5530	6.20	7.00	No
		122	5610	5.57	6.50	No
	802.11ac(VHT160)	114	5570	6.61	7.50	No
	802.11ax-HE20	100	5500	8.13	9.00	No
		116	5580	7.30	8.50	No
		140	5700	8.20	9.00	No
	802.11ax-HE40	102	5510	7.20	8.00	No
		118	5590	6.42	7.50	No
		134	5670	6.90	8.00	No
	802.11ax-HE80	106	5530	6.72	7.50	No
		122	5610	6.59	7.50	No
	802.11ax-HE160	114	5570	6.59	7.50	No
5.8 (5.725~5.850)	802.11a	149	5745	10.10	11.00	Yes
		157	5785	9.40	10.50	No
		165	5825	9.66	10.50	No
	802.11n(HT20)	149	5745	9.05	10.00	No
		157	5785	8.77	10.00	No
		165	5825	8.60	9.50	No
	802.11n(HT40)	151	5755	8.17	9.00	No
		159	5795	7.86	9.00	No
	802.11ac(VHT20)	149	5745	8.49	9.50	No
		157	5785	7.86	9.00	No
		165	5825	8.10	9.00	No
	802.11ac(VHT40)	151	5755	7.29	8.50	No

		159	5795	6.99	8.00	No
	802.11ac(VHT80)	155	5775	6.02	7.00	No
	802.11ax-HE20	149	5745	8.51	9.50	No
		157	5785	7.83	9.00	No
		165	5825	8.08	9.00	No
	802.11ax-HE40	151	5755	7.00	8.00	No
		159	5795	6.73	7.50	No
	802.11ax-HE80	155	5775	6.89	8.00	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.5.4 5G WIFI ANT3

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	9.95	11.00	No
		44	5220	10.04	11.00	No
		48	5240	10.35	11.50	Yes
	802.11n(HT20)	36	5180	9.17	10.00	No
		44	5220	7.99	9.00	No
		48	5240	8.17	9.00	No
	802.11n(HT40)	38	5190	7.65	8.50	No
		46	5230	7.69	8.50	No
	802.11ac(VHT20)	36	5180	7.78	9.00	No
		44	5220	7.56	8.50	No
		48	5240	7.68	8.50	No
	802.11ac(VHT40)	38	5190	6.71	7.50	No
		46	5230	6.76	8.00	No
	802.11ac(VHT80)	42	5210	5.79	7.00	No
	802.11ax-HE20	36	5180	7.76	9.00	No
		44	5220	7.58	8.50	No
		48	5240	7.73	8.50	No
	802.11ax-HE40	38	5190	6.57	7.50	No
		46	5230	6.61	7.50	No
	802.11ax-HE80	42	5210	6.70	7.50	No
5.3 (5.25~5.35)	802.11a	52	5260	10.41	11.50	Yes
		60	5300	9.44	10.50	No
		64	5320	9.65	10.50	No

	802.11n(HT20)	52	5260	8.24	9.00	No
		60	5300	8.70	9.50	No
		64	5320	9.11	10.00	No
	802.11n(HT40)	54	5270	7.52	8.50	No
		62	5310	8.01	9.00	No
	802.11ac(VHT20)	52	5260	7.64	8.50	No
		60	5300	7.65	8.50	No
		64	5320	7.94	9.00	No
	802.11ac(VHT40)	54	5270	6.50	7.50	No
		62	5310	6.98	8.00	No
	802.11ac(VHT80)	58	5290	5.59	6.50	No
	802.11ac(VHT160)	50	5250	6.15	7.00	No
	802.11ax-HE20	52	5260	7.77	9.00	No
		60	5300	7.65	8.50	No
		64	5320	7.92	9.00	No
	802.11ax-HE40	54	5270	6.35	7.50	No
		62	5310	6.81	8.00	No
	802.11ax-HE80	58	5290	6.43	7.50	No
	802.11ax-HE160	50	5250	6.10	7.00	No
5.6 (5.47~5.725)	802.11a	100	5500	9.74	10.50	No
		116	5580	10.40	11.50	Yes
		140	5700	9.81	11.00	No
	802.11n(HT20)	100	5500	8.19	9.00	No
		116	5580	9.06	10.00	No
		140	5700	9.17	10.00	No
	802.11n(HT40)	102	5510	7.72	8.50	No
		118	5590	8.69	9.50	No
		134	5670	8.55	9.50	No
	802.11ac(VHT20)	100	5500	7.44	8.50	No
		116	5580	8.49	9.50	No
		140	5700	8.68	9.50	No
	802.11ac(VHT40)	102	5510	7.24	8.00	No
		118	5590	7.54	8.50	No
		134	5670	7.70	8.50	No
	802.11ac(VHT80)	106	5530	6.32	7.50	No
		122	5610	6.50	7.50	No
	802.11ac(VHT160)	114	5570	6.95	8.00	No
	802.11ax-HE20	100	5500	7.50	8.50	No
		116	5580	8.51	9.50	No

		140	5700	8.27	9.50	No
	802.11ax-HE40	102	5510	7.54	8.50	No
		118	5590	7.34	8.50	No
		134	5670	7.17	8.00	No
	802.11ax-HE80	106	5530	7.30	8.50	No
		122	5610	6.95	8.00	No
	802.11ax-HE160	114	5570	6.95	8.00	No
5.8 (5.725~5.850)	802.11a	149	5745	10.07	11.00	No
		157	5785	9.81	11.00	No
		165	5825	10.19	11.00	Yes
	802.11n(HT20)	149	5745	8.86	10.00	No
		157	5785	8.82	10.00	No
		165	5825	8.93	10.00	No
	802.11n(HT40)	151	5755	8.43	9.50	No
		159	5795	8.44	9.50	No
	802.11ac(VHT20)	149	5745	8.33	9.50	No
		157	5785	8.40	9.50	No
		165	5825	8.45	9.50	No
	802.11ac(VHT40)	151	5755	7.52	8.50	No
		159	5795	7.47	8.50	No
	802.11ac(VHT80)	155	5775	6.91	8.00	No
	802.11ax-HE20	149	5745	8.39	9.50	No
		157	5785	8.47	9.50	No
		165	5825	8.49	9.50	No
	802.11ax-HE40	151	5755	7.31	8.50	No
		159	5795	7.32	8.50	No
	802.11ax-HE80	155	5775	7.32	8.50	No

Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

8.5.5 6G WIFI ANT2

Mode		Channel	Frequency (MHz)	Conducted Power (dBm)	Tune up (dBm)	SAR Test
6G U-NII-5	11ax-20	1	5955	5.29	6.00	No
		45	6175	3.04	4.00	No
		93	6415	2.69	3.00	No
	11ax-40	3	5965	7.85	8.00	No
		43	6165	5.77	6.00	No
		91	6405	5.24	6.00	No
	11ax-80	7	5985	10.84	11.00	No
		39	6145	9.18	10.00	No
		87	6385	8.08	9.00	No
	11ax-160	15	6025	13.09	13.50	Yes
		47	6185	12.38	13.00	Yes
		79	6345	10.95	11.00	Yes
6G U-NII-6	11ax-20	97	6435	2.51	3.00	No
		105	6475	3.07	4.00	No
		113	6515	3.37	4.00	No
	11ax-40	99	6445	5.93	6.00	No
		107	6485	6.43	7.00	No
		115	6525	6.72	7.00	No
	11ax-80	103	6465	9.24	10.00	No
		119	6545	9.75	10.00	No
	11ax-160	111	6505	12.49	13.00	Yes
6G U-NII-7	11ax-20	117	6535	3.44	4.00	No
		153	6715	3.39	4.00	No
		181	6855	3.56	4.00	No
	11ax-40	123	6565	6.95	7.00	No
		155	6725	7.13	8.00	No
		179	6845	6.44	7.00	No
	11ax-80	135	6625	10.08	11.00	No
		151	6705	10.12	11.00	No
		167	6785	10.01	11.00	No
	11ax-160	143	6665	13.18	13.50	Yes
		175	6825	12.63	13.00	Yes
6G U-NII-8	11ax-20	185	6875	3.26	4.00	No
		213	7015	2.16	3.00	No
		229	7095	2.25	3.00	No
		233	7115	2.29	3.00	No
	11ax-40	187	6885	6.18	7.00	No

		211	7005	5.67	6.00	No
		227	7085	5.61	6.00	No
		183	6865	9.64	10.00	No
	11ax-80	199	6945	8.86	9.00	No
		215	7025	8.71	9.00	No
	11ax-160	207	6985	11.90	13.00	Yes

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected.

8.5.6 6G WIFI ANT3

Mode		Channel	Frequency (MHz)	Conducted Power (dBm)	Tune up (dBm)	SAR Test
6G U-NII-5	11ax-20	1	5955	6.57	7.00	No
		45	6175	5.30	6.00	No
		93	6415	4.88	5.00	No
	11ax-40	3	5965	9.49	10.00	No
		43	6165	8.12	9.00	No
		91	6405	7.76	8.00	No
	11ax-80	7	5985	12.60	13.00	No
		39	6145	11.13	12.00	No
		87	6385	11.02	12.00	No
	11ax-160	15	6025	14.63	15.00	Yes
		47	6185	12.02	13.00	Yes
		79	6345	11.35	12.00	Yes
6G U-NII-6	11ax-20	97	6435	4.21	5.00	No
		105	6475	4.27	5.00	No
		113	6515	4.07	5.00	No
	11ax-40	99	6445	7.54	8.00	No
		107	6485	7.34	8.00	No
		115	6525	7.30	8.00	No
	11ax-80	103	6465	10.71	11.00	No
		119	6545	10.76	11.00	No
	11ax-160	111	6505	12.19	13.00	Yes
6G U-NII-7	11ax-20	117	6535	4.15	5.00	No
		153	6715	4.01	5.00	No
		181	6855	4.74	5.00	No
	11ax-40	123	6565	7.54	8.00	No

		155	6725	6.75	8.00	No
		179	6845	6.97	8.00	No
	11ax-80	135	6625	10.26	11.00	No
		151	6705	9.84	10.00	No
		167	6785	9.95	10.00	No
	11ax-160	143	6665	12.37	13.00	Yes
		175	6825	12.54	13.00	Yes
	6G U-NII-8	11ax-20	185	6875	3.81	4.00
213			7015	1.81	2.00	No
229			7095	3.16	4.00	No
233			7115	3.27	4.00	No
11ax-40		187	6885	6.60	7.00	No
		211	7005	4.86	5.00	No
		227	7085	6.44	7.00	No
		183	6865	9.83	10.00	No
11ax-80		199	6945	8.42	9.00	No
		215	7025	8.55	9.00	No
11ax-160		207	6985	10.18	11.00	Yes

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected.

8.6 Bluetooth

8.6.1 Bluetooth ANT3

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	11.71	10.93	10.56	8.73	9.19	7.95
Tune-Up Limit (dBm)	12.50	12.00	11.50	9.50	10.00	9.00
SAR Test Require	YES	NO	NO	NO	NO	NO
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conducted Power (dBm)	8.76	9.20	7.99	/	/	/
Tune-Up Limit (dBm)	10.00	10.00	9.00	/	/	/
SAR Test Require	NO	NO	NO	NO	NO	NO

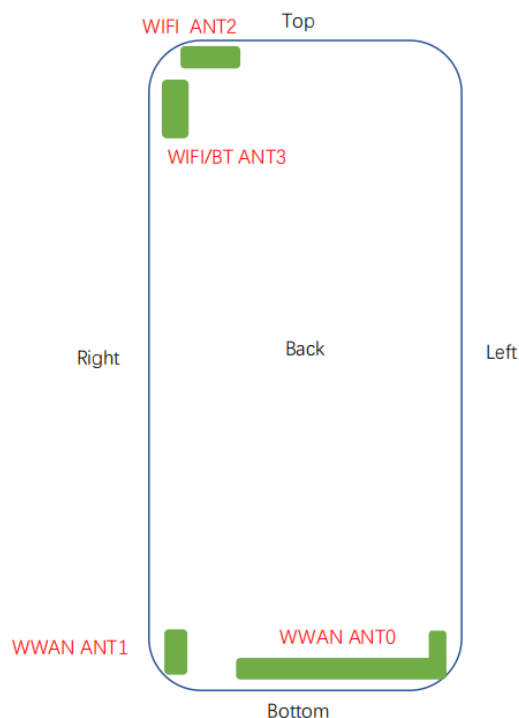
Mode	BLE-1Mbps			BLE-2Mbps		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Conducted Power (dBm)	4.87	2.02	3.20	14.98	14.06	14.25
Tune-Up Limit (dBm)	6.00	3.00	4.00	16.00	15.00	15.50
SAR Test Require	NO	NO	NO	NO	NO	NO

Note 1: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

Note: The Bluetooth duty cycle is 100% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.



9 TEST EXCLUSION CONSIDERATION



<EUT Back View>

Antenna	Support Bands
Ant 0	GSM 850/1900; WCDMA B2/4/5; LTE B2/4/5/7/12/13/17/25/26/66/71/38/41 NR n2/5/7/25/26/66/71
Ant 1	LTE B42/43 NR n38/41/77/78
Ant 2	WIFI 2.4G/5G/6G
Ant 3	WIFI 2.4G/5G/6G, BT

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
Ant 0	<25	<25	<25	<25	>25	<25
Ant 1	<25	<25	>25	<25	>25	<25
Ant 2	<25	<25	>25	<25	<25	>25
Ant 3	<25	<25	>25	<25	<25	>25

Note: 1. Per KDB 941225 DO6, When the overall length and width of a device is > 9 cm *5 cm, a test separation distance of 10 mm is required for hotspot mode SAR measurements and hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.

10 TEST RESULT

Note: Refer to ANNEX C for the detailed test data for each test configuration.

10.1 GSM 850

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
Ant0	GPRS (4slots)	Left cheek	0	190	836.6	0.09	0.352	33.15	34.00	1.216	0.428	1
		Left tilt		190	836.6	-0.18	0.173	33.15	34.00	1.216	0.210	/
		Right cheek		190	836.6	-0.07	0.121	33.15	34.00	1.216	0.147	/
		Right tilt		190	836.6	-0.02	0.072	33.15	34.00	1.216	0.088	/
Body-worn&Hotspot												
Ant0	GPRS (4slots)	Front side	10	190	836.6	-0.19	0.466	33.15	34.00	1.216	0.567	/
		Back side		190	836.6	-0.14	0.631	33.15	34.00	1.216	0.767	2
		Left side		190	836.6	0.07	0.138	33.15	34.00	1.216	0.168	/
		Right side		190	836.6	0.16	0.330	33.15	34.00	1.216	0.401	/
		Bottom side		190	836.6	-0.1	0.264	33.15	34.00	1.216	0.321	/

10.2 GSM 1900

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
Ant0	GPRS (4slots)	Left cheek	0	661	1880	0.08	0.239	29.61	30.50	1.227	0.293	3
		Left tilt		661	1880	-0.01	0.145	29.61	30.50	1.227	0.178	/
		Right cheek		661	1880	-0.15	0.148	29.61	30.50	1.227	0.182	/
		Right tilt		661	1880	-0.19	0.126	29.61	30.50	1.227	0.155	/
Body-worn&Hotspot												
Ant0	GPRS (4slots)	Front side	10	661	1880	-0.11	0.506	29.61	30.50	1.227	0.621	/
		Back side		661	1880	-0.09	0.578	29.61	30.50	1.227	0.709	4
		Left side		661	1880	-0.19	0.466	29.61	30.50	1.227	0.572	/
		Right side		661	1880	0.09	0.221	29.61	30.50	1.227	0.271	/
		Bottom side		661	1880	-0.05	0.320	29.61	30.50	1.227	0.393	/

10.3WCDMA Band 2

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
Ant0	RMC	Left cheek	0	9400	1880	0.05	0.221	24.66	25.50	1.213	0.268	5
		Left tilt		9400	1880	-0.07	0.107	24.66	25.50	1.213	0.130	/
		Right cheek		9400	1880	0.05	0.131	24.66	25.50	1.213	0.159	/
		Right tilt		9400	1880	-0.06	0.055	24.66	25.50	1.213	0.067	/
Body-worn&Hotspot												
Ant0	RMC	Front side	10	9400	1880	0.18	0.463	24.66	25.50	1.213	0.562	/
		Back side		9400	1880	0.03	0.603	24.66	25.50	1.213	0.732	6
		Left side		9400	1880	-0.1	0.279	24.66	25.50	1.213	0.339	/
		Right side		9400	1880	-0.1	0.135	24.66	25.50	1.213	0.164	/
		Bottom side		9400	1880	-0.08	0.428	24.66	25.50	1.213	0.519	/

10.4WCDMA Band 4

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
Ant0	RMC	Left cheek	0	1412	1732.4	0.03	0.297	24.70	25.50	1.202	0.357	7
		Left tilt		1412	1732.4	0.14	0.173	24.70	25.50	1.202	0.208	/
		Right cheek		1412	1732.4	0.01	0.208	24.70	25.50	1.202	0.250	/
		Right tilt		1412	1732.4	0.13	0.117	24.70	25.50	1.202	0.141	/
Body-worn&Hotspot												
Ant0	RMC	Front side	10	1412	1732.4	0.04	0.630	24.70	25.50	1.202	0.757	8
		Back side		1412	1732.4	0.03	0.495	24.70	25.50	1.202	0.595	/
		Left side		1412	1732.4	-0.13	0.484	24.70	25.50	1.202	0.582	/
		Right side		1412	1732.4	-0.11	0.090	24.70	25.50	1.202	0.108	/
		Bottom side		1412	1732.4	0.19	0.453	24.70	25.50	1.202	0.545	/

10.5WCDMA Band 5

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head												
Ant0	RMC	Left cheek	0	4182	836.4	0.13	0.108	24.16	25.00	1.213	0.131	9
		Left tilt		4182	836.4	0.08	0.077	24.16	25.00	1.213	0.093	/
		Right cheek		4182	836.4	0.1	0.086	24.16	25.00	1.213	0.104	/
		Right tilt		4182	836.4	-0.14	0.077	24.16	25.00	1.213	0.093	/
Body-worn&Hotspot												
Ant0	RMC	Front side	10	4182	836.4	0.04	0.157	24.16	25.00	1.213	0.191	/
		Back side		4182	836.4	0.11	0.242	24.16	25.00	1.213	0.294	10
		Left side		4182	836.4	-0.05	0.058	24.16	25.00	1.213	0.070	/
		Right side		4182	836.4	0.1	0.112	24.16	25.00	1.213	0.136	/
		Bottom side		4182	836.4	0.17	0.098	24.16	25.00	1.213	0.119	/

10.6LTE Band 2 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/k g)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	18900	1880	1	0	0.02	0.184	23.64	24.50	1.219	0.224	11
		Left tilt		18900	1880	1	0	-0.05	0.084	23.64	24.50	1.219	0.102	/
		Right cheek		18900	1880	1	0	0.03	0.112	23.64	24.50	1.219	0.137	/
		Right tilt		18900	1880	1	0	-0.11	0.075	23.64	24.50	1.219	0.091	/
Ant0	QPSK	Left cheek	0	18900	1880	50	0	0.16	0.134	22.54	23.50	1.247	0.167	/
		Left tilt		18900	1880	50	0	-0.03	0.070	22.54	23.50	1.247	0.087	/
		Right cheek		18900	1880	50	0	-0.01	0.084	22.54	23.50	1.247	0.105	/
		Right tilt		18900	1880	50	0	-0.13	0.037	22.54	23.50	1.247	0.046	/
Body-worn&Hotspot														
Ant0	QPSK	Front side	10	18900	1880	1	0	0.04	0.368	23.64	24.50	1.219	0.449	/
		Back side		18900	1880	1	0	-0.04	0.426	23.64	24.50	1.219	0.519	12
		Left side		18900	1880	1	0	0.06	0.255	23.64	24.50	1.219	0.311	/
		Right side		18900	1880	1	0	-0.06	0.116	23.64	24.50	1.219	0.141	/
		Bottom side		18900	1880	1	0	0.03	0.348	23.64	24.50	1.219	0.424	/
Ant0	QPSK	Front side	10	18900	1880	50	0	0.08	0.294	22.54	23.50	1.247	0.367	/
		Back side		18900	1880	50	0	0.08	0.397	22.54	23.50	1.247	0.495	/
		Left side		18900	1880	50	0	0.1	0.188	22.54	23.50	1.247	0.235	/
		Right side		18900	1880	50	0	-0.06	0.087	22.54	23.50	1.247	0.109	/
		Bottom side		18900	1880	50	0	-0.15	0.303	22.54	23.50	1.247	0.378	/

10.7LTE Band 5 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/k g)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	20525	836.5	1	0	-0.04	0.092	23.40	24.50	1.288	0.118	13
		Left tilt		20525	836.5	1	0	-0.04	0.041	23.40	24.50	1.288	0.053	/
		Right cheek		20525	836.5	1	0	0.18	0.044	23.40	24.50	1.288	0.057	/
		Right tilt		20525	836.5	1	0	0.05	0.033	23.40	24.50	1.288	0.043	/
Ant0	QPSK	Left cheek	0	20525	836.5	25	0	0.04	0.051	22.41	23.50	1.285	0.066	/
		Left tilt		20525	836.5	25	0	-0.15	0.024	22.41	23.50	1.285	0.031	/
		Right cheek		20525	836.5	25	0	-0.01	0.048	22.41	23.50	1.285	0.062	/
		Right tilt		20525	836.5	25	0	-0.12	0.018	22.41	23.50	1.285	0.023	/
Body-worn&Hotspot														
Ant0	QPSK	Front side	10	20525	836.5	1	0	-0.13	0.135	23.40	24.50	1.288	0.174	/
		Back side		20525	836.5	1	0	0.07	0.171	23.40	24.50	1.288	0.220	14
		Left side		20525	836.5	1	0	0.02	0.053	23.40	24.50	1.288	0.068	/
		Right side		20525	836.5	1	0	-0.15	0.084	23.40	24.50	1.288	0.108	/
		Bottom side		20525	836.5	1	0	-0.14	0.080	23.40	24.50	1.288	0.103	/
Ant0	QPSK	Front side	10	20525	836.5	25	0	-0.14	0.108	22.41	23.50	1.285	0.139	/
		Back side		20525	836.5	25	0	-0.11	0.145	22.41	23.50	1.285	0.186	/
		Left side		20525	836.5	25	0	0.1	0.001	22.41	23.50	1.285	0.001	/
		Right side		20525	836.5	25	0	0.07	0.069	22.41	23.50	1.285	0.089	/
		Bottom side		20525	836.5	25	0	0.15	0.060	22.41	23.50	1.285	0.077	/

10.8LTE Band 7 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	21100	2535	1	0	0.09	0.012	16.39	17.50	1.291	0.016	15
		Left tilt		21100	2535	1	0	0.1	0.009	16.39	17.50	1.291	0.012	/
		Right cheek		21100	2535	1	0	-0.19	0.011	16.39	17.50	1.291	0.014	/
		Right tilt		21100	2535	1	0	0.01	0.011	16.39	17.50	1.291	0.014	/
Ant0	QPSK	Left cheek	0	21100	2535	50	0	-0.13	0.012	15.51	16.50	1.256	0.015	/
		Left tilt		21100	2535	50	0	0.02	0.012	15.51	16.50	1.256	0.015	/
		Right cheek		21100	2535	50	0	0.01	0.010	15.51	16.50	1.256	0.013	/
		Right tilt		21100	2535	50	0	-0.05	0.010	15.51	16.50	1.256	0.013	/

Body-worn&Hotspot														
Ant0	QPSK	Front side	10	21100	2535	1	0	-0.02	0.068	16.39	17.50	1.291	0.088	/
		Back side		21100	2535	1	0	0.07	0.344	16.39	17.50	1.291	0.444	16
		Left side		21100	2535	1	0	0.15	0.053	16.39	17.50	1.291	0.068	/
		Right side		21100	2535	1	0	0.18	0.039	16.39	17.50	1.291	0.050	/
		Bottom side		21100	2535	1	0	0.04	0.180	16.39	17.50	1.291	0.232	/
Ant0	QPSK	Front side	10	21100	2535	50	0	0.16	0.059	15.51	16.50	1.256	0.074	/
		Back side		21100	2535	50	0	-0.18	0.288	15.51	16.50	1.256	0.362	/
		Left side		21100	2535	50	0	0.06	0.062	15.51	16.50	1.256	0.078	/
		Right side		21100	2535	50	0	0.19	0.051	15.51	16.50	1.256	0.064	/
		Bottom side		21100	2535	50	0	0.07	0.148	15.51	16.50	1.256	0.186	/

10.9LTE Band 12 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	23095	707.5	1	0	0.04	0.078	23.29	24.00	1.178	0.092	17
		Left tilt		23095	707.5	1	0	-0.18	0.045	23.29	24.00	1.178	0.053	/
		Right cheek		23095	707.5	1	0	0.13	0.052	23.29	24.00	1.178	0.061	/
		Right tilt		23095	707.5	1	0	0.01	0.037	23.29	24.00	1.178	0.044	/
Ant0	QPSK	Left cheek	0	23095	707.5	25	0	-0.08	0.055	22.26	23.00	1.186	0.065	/
		Left tilt		23095	707.5	25	0	0.01	0.037	22.26	23.00	1.186	0.044	/
		Right cheek		23095	707.5	25	0	-0.05	0.041	22.26	23.00	1.186	0.049	/
		Right tilt		23095	707.5	25	0	-0.04	0.033	22.26	23.00	1.186	0.039	/
Body-worn&Hotspot														
Ant0	QPSK	Front side	10	23095	707.5	1	0	0.06	0.085	23.29	24.00	1.178	0.100	/
		Back side		23095	707.5	1	0	0.11	0.179	23.29	24.00	1.178	0.211	18
		Left side		23095	707.5	1	0	-0.14	0.115	23.29	24.00	1.178	0.135	/
		Right side		23095	707.5	1	0	-0.1	0.114	23.29	24.00	1.178	0.134	/
		Bottom side		23095	707.5	1	0	-0.19	0.063	23.29	24.00	1.178	0.074	/
Ant0	QPSK	Front side	10	23095	707.5	25	0	0.1	0.070	22.26	23.00	1.186	0.083	/
		Back side		23095	707.5	25	0	-0.01	0.157	22.26	23.00	1.186	0.186	/
		Left side		23095	707.5	25	0	0.07	0.090	22.26	23.00	1.186	0.107	/
		Right side		23095	707.5	25	0	-0.01	0.092	22.26	23.00	1.186	0.109	/
		Bottom side		23095	707.5	25	0	0.08	0.042	22.26	23.00	1.186	0.050	/

10.10 LTE Band 13 (10MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/k g)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	23230	782	1	0	0.07	0.067	23.46	24.50	1.271	0.086	19
		Left tilt		23230	782	1	0	0.01	0.048	23.46	24.50	1.271	0.061	/
		Right cheek		23230	782	1	0	0.07	0.052	23.46	24.50	1.271	0.066	/
		Right tilt		23230	782	1	0	0.17	0.033	23.46	24.50	1.271	0.042	/
Ant0	QPSK	Left cheek	0	23230	782	25	0	0.14	0.049	22.31	23.50	1.315	0.064	/
		Left tilt		23230	782	25	0	0.16	0.033	22.31	23.50	1.315	0.043	/
		Right cheek		23230	782	25	0	0.13	0.041	22.31	23.50	1.315	0.054	/
		Right tilt		23230	782	25	0	-0.07	0.031	22.31	23.50	1.315	0.041	/
Body-worn&Hotspot														
Ant0	QPSK	Front side	10	23230	782	1	0	0.18	0.088	23.46	24.50	1.271	0.112	/
		Back side		23230	782	1	0	0.14	0.119	23.46	24.50	1.271	0.151	20
		Left side		23230	782	1	0	0.1	0.053	23.46	24.50	1.271	0.067	/
		Right side		23230	782	1	0	-0.13	0.086	23.46	24.50	1.271	0.109	/
		Bottom side		23230	782	1	0	0.08	0.062	23.46	24.50	1.271	0.079	/
Ant0	QPSK	Front side	10	23230	782	25	0	0.03	0.066	22.31	23.50	1.315	0.087	/
		Back side		23230	782	25	0	-0.13	0.104	22.31	23.50	1.315	0.137	/
		Left side		23230	782	25	0	0.03	0.001	22.31	23.50	1.315	0.001	/
		Right side		23230	782	25	0	-0.07	0.066	22.31	23.50	1.315	0.087	/
		Bottom side		23230	782	25	0	0.06	0.001	22.31	23.50	1.315	0.001	/

10.11 LTE Band 25 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	26365	1882.5	1	0	-0.19	0.150	23.59	24.50	1.233	0.185	21
		Left tilt		26365	1882.5	1	0	0.12	0.084	23.59	24.50	1.233	0.104	/
		Right cheek		26365	1882.5	1	0	0.05	0.113	23.59	24.50	1.233	0.139	/
		Right tilt		26365	1882.5	1	0	-0.02	0.076	23.59	24.50	1.233	0.094	/
Ant0	QPSK	Left cheek	0	26365	1882.5	50	0	0.1	0.140	22.61	23.50	1.227	0.172	/
		Left tilt		26365	1882.5	50	0	0.17	0.070	22.61	23.50	1.227	0.086	/
		Right cheek		26365	1882.5	50	0	0.13	0.081	22.61	23.50	1.227	0.099	/
		Right tilt		26365	1882.5	50	0	-0.18	0.052	22.61	23.50	1.227	0.064	/

Body-worn&Hotspot														
Ant0	QPSK	Front side	10	26365	1882.5	1	0	-0.07	0.356	23.59	24.50	1.233	0.439	/
		Back side		26365	1882.5	1	0	0.12	0.480	23.59	24.50	1.233	0.592	22
		Left side		26365	1882.5	1	0	-0.07	0.257	23.59	24.50	1.233	0.317	/
		Right side		26365	1882.5	1	0	-0.13	0.110	23.59	24.50	1.233	0.136	/
		Bottom side		26365	1882.5	1	0	0.11	0.338	23.59	24.50	1.233	0.417	/
Ant0	QPSK	Front side	10	26365	1882.5	50	0	0.1	0.281	22.61	23.50	1.227	0.345	/
		Back side		26365	1882.5	50	0	-0.09	0.389	22.61	23.50	1.227	0.477	/
		Left side		26365	1882.5	50	0	0.02	0.182	22.61	23.50	1.227	0.223	/
		Right side		26365	1882.5	50	0	0.17	0.078	22.61	23.50	1.227	0.096	/
		Bottom side		26365	1882.5	50	0	0.06	0.259	22.61	23.50	1.227	0.318	/

10.12 LTE Band 26 (15MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	26865	831.5	1	0	-0.05	0.088	23.07	24.00	1.239	0.109	23
		Left tilt		26865	831.5	1	0	0.11	0.066	23.07	24.00	1.239	0.082	/
		Right cheek		26865	831.5	1	0	0.11	0.057	23.07	24.00	1.239	0.071	/
		Right tilt		26865	831.5	1	0	0.08	0.043	23.07	24.00	1.239	0.053	/
Ant0	QPSK	Left cheek	0	26865	831.5	36	0	-0.1	0.068	22.23	23.00	1.194	0.081	/
		Left tilt		26865	831.5	36	0	-0.07	0.051	22.23	23.00	1.194	0.061	/
		Right cheek		26865	831.5	36	0	-0.14	0.052	22.23	23.00	1.194	0.062	/
		Right tilt		26865	831.5	36	0	-0.04	0.038	22.23	23.00	1.194	0.045	/
Body-worn&Hotspot														
Ant0	QPSK	Front side	10	26865	831.5	1	0	0.12	0.123	23.07	24.00	1.239	0.152	/
		Back side		26865	831.5	1	0	0.04	0.177	23.07	24.00	1.239	0.219	24
		Left side		26865	831.5	1	0	-0.15	0.053	23.07	24.00	1.239	0.066	/
		Right side		26865	831.5	1	0	-0.02	0.095	23.07	24.00	1.239	0.118	/
		Bottom side		26865	831.5	1	0	-0.06	0.086	23.07	24.00	1.239	0.107	/
Ant0	QPSK	Front side	10	26865	831.5	36	0	0.05	0.099	22.23	23.00	1.194	0.118	/
		Back side		26865	831.5	36	0	-0.18	0.149	22.23	23.00	1.194	0.178	/
		Left side		26865	831.5	36	0	0.02	0.001	22.23	23.00	1.194	0.001	/
		Right side		26865	831.5	36	0	-0.07	0.075	22.23	23.00	1.194	0.090	/
		Bottom side		26865	831.5	36	0	0.07	0.052	22.23	23.00	1.194	0.062	/

10.13 LTE Band 66 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/k g)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	132322	1745	1	0	-0.08	0.204	23.20	24.00	1.202	0.245	25
		Left tilt		132322	1745	1	0	0.07	0.125	23.20	24.00	1.202	0.150	/
		Right cheek		132322	1745	1	0	-0.04	0.147	23.20	24.00	1.202	0.177	/
		Right tilt		132322	1745	1	0	-0.19	0.103	23.20	24.00	1.202	0.124	/
Ant0	QPSK	Left cheek	0	132322	1745	50	0	-0.1	0.196	22.24	23.00	1.191	0.233	/
		Left tilt		132322	1745	50	0	0.06	0.103	22.24	23.00	1.191	0.123	/
		Right cheek		132322	1745	50	0	0.15	0.144	22.24	23.00	1.191	0.172	/
		Right tilt		132322	1745	50	0	-0.1	0.100	22.24	23.00	1.191	0.119	/
Body-worn&Hotspot														
Ant0	QPSK	Front side	10	132322	1745	1	0	-0.01	0.378	23.20	24.00	1.202	0.454	/
		Back side		132322	1745	1	0	-0.05	0.450	23.20	24.00	1.202	0.541	26
		Left side		132322	1745	1	0	0.01	0.353	23.20	24.00	1.202	0.424	/
		Right side		132322	1745	1	0	0.12	0.096	23.20	24.00	1.202	0.115	/
		Bottom side		132322	1745	1	0	0.03	0.327	23.20	24.00	1.202	0.393	/
Ant0	QPSK	Front side	10	132322	1745	50	0	0.08	0.303	22.24	23.00	1.191	0.361	/
		Back side		132322	1745	50	0	0.12	0.358	22.24	23.00	1.191	0.426	/
		Left side		132322	1745	50	0	-0.15	0.259	22.24	23.00	1.191	0.309	/
		Right side		132322	1745	50	0	-0.05	0.079	22.24	23.00	1.191	0.094	/
		Bottom side		132322	1745	50	0	0.13	0.242	22.24	23.00	1.191	0.288	/

10.14 LTE Band 71 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	133322	683	1	0	0.12	0.005	23.21	24.00	1.199	0.007	27
		Left tilt		133322	683	1	0	-0.05	0.004	23.21	24.00	1.199	0.005	/
		Right cheek		133322	683	1	0	0.07	0.005	23.21	24.00	1.199	0.006	/
		Right tilt		133322	683	1	0	0.01	0.002	23.21	24.00	1.199	0.002	/
Ant0	QPSK	Left cheek	0	133322	683	50	0	-0.19	0.005	22.26	23.00	1.186	0.006	/
		Left tilt		133322	683	50	0	-0.04	0.004	22.26	23.00	1.186	0.005	/
		Right cheek		133322	683	50	0	0.01	0.003	22.26	23.00	1.186	0.004	/
		Right tilt		133322	683	50	0	0.13	0.002	22.26	23.00	1.186	0.002	/

Body-worn&Hotspot														
Ant0	QPSK	Front side	10	133322	683	1	0	0.03	0.001	23.21	24.00	1.199	0.001	/
		Back side		133322	683	1	0	-0.11	0.023	23.21	24.00	1.199	0.028	28
		Left side		133322	683	1	0	-0.03	0.001	23.21	24.00	1.199	0.001	/
		Right side		133322	683	1	0	-0.14	0.001	23.21	24.00	1.199	0.001	/
		Bottom side		133322	683	1	0	0.09	0.001	23.21	24.00	1.199	0.001	/
Ant0	QPSK	Front side	10	133322	683	50	0	-0.05	0.001	22.26	23.00	1.186	0.001	/
		Back side		133322	683	50	0	-0.01	0.001	22.26	23.00	1.186	0.001	/
		Left side		133322	683	50	0	0.11	0.001	22.26	23.00	1.186	0.001	/
		Right side		133322	683	50	0	0.05	0.001	22.26	23.00	1.186	0.001	/
		Bottom side		133322	683	50	0	-0.09	0.001	22.26	23.00	1.186	0.001	/

10.15 LTE Band 38 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	38000	2595	1	0	0.12	0.007	18.25	19.00	1.189	0.009	29
		Left tilt		38000	2595	1	0	0.17	0.006	18.25	19.00	1.189	0.007	/
		Right cheek		38000	2595	1	0	-0.12	0.006	18.25	19.00	1.189	0.007	/
		Right tilt		38000	2595	1	0	0.07	0.005	18.25	19.00	1.189	0.006	/
Ant0	QPSK	Left cheek	0	38000	2595	50	0	-0.14	0.006	17.37	18.00	1.156	0.007	/
		Left tilt		38000	2595	50	0	-0.1	0.005	17.37	18.00	1.156	0.006	/
		Right cheek		38000	2595	50	0	0.07	0.006	17.37	18.00	1.156	0.007	/
		Right tilt		38000	2595	50	0	-0.1	0.005	17.37	18.00	1.156	0.006	/
Body-worn&Hotspot														
Ant0	QPSK	Front side	10	38000	2595	1	0	0.12	0.054	18.25	19.00	1.189	0.064	/
		Back side		38000	2595	1	0	0.02	0.297	18.25	19.00	1.189	0.353	30
		Left side		38000	2595	1	0	0.03	0.038	18.25	19.00	1.189	0.045	/
		Right side		38000	2595	1	0	-0.08	0.009	18.25	19.00	1.189	0.011	/
		Bottom side		38000	2595	1	0	-0.16	0.122	18.25	19.00	1.189	0.145	/
Ant0	QPSK	Front side	10	38000	2595	50	0	-0.1	0.044	17.37	18.00	1.156	0.051	/
		Back side		38000	2595	50	0	-0.12	0.217	17.37	18.00	1.156	0.251	/
		Left side		38000	2595	50	0	0.08	0.065	17.37	18.00	1.156	0.075	/
		Right side		38000	2595	50	0	0.02	0.020	17.37	18.00	1.156	0.023	/
		Bottom side		38000	2595	50	0	0.02	0.108	17.37	18.00	1.156	0.125	/

10.16 LTE Band 41 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/k g)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant0	QPSK	Left cheek	0	40620	2593	1	1	0.13	0.011	18.48	19.50	1.265	0.014	31
		Left tilt		40620	2593	1	1	0.01	0.009	18.48	19.50	1.265	0.011	/
		Right cheek		40620	2593	1	1	-0.06	0.010	18.48	19.50	1.265	0.013	/
		Right tilt		40620	2593	1	1	-0.07	0.008	18.48	19.50	1.265	0.010	/
Ant0	QPSK	Left cheek	0	40620	2593	50	0	-0.02	0.009	17.51	18.50	1.256	0.011	/
		Left tilt		40620	2593	50	0	0.15	0.008	17.51	18.50	1.256	0.010	/
		Right cheek		40620	2593	50	0	-0.09	0.008	17.51	18.50	1.256	0.010	/
		Right tilt		40620	2593	50	0	-0.11	0.007	17.51	18.50	1.256	0.009	/
Body-worn&Hotspot														
Ant0	QPSK	Front side	10	40620	2593	1	0	0.08	0.055	18.48	19.50	1.265	0.070	/
		Back side		40620	2593	1	0	0.08	0.319	18.48	19.50	1.265	0.403	32
		Left side		40620	2593	1	0	0.11	0.055	18.48	19.50	1.265	0.070	/
		Right side		40620	2593	1	0	0.05	0.034	18.48	19.50	1.265	0.043	/
		Bottom side		40620	2593	1	0	0.19	0.131	18.48	19.50	1.265	0.166	/
Ant0	QPSK	Front side	10	40620	2593	50	0	0.16	0.042	17.51	18.50	1.256	0.053	/
		Back side		40620	2593	50	0	-0.06	0.223	17.51	18.50	1.256	0.280	/
		Left side		40620	2593	50	0	-0.09	0.013	17.51	18.50	1.256	0.016	/
		Right side		40620	2593	50	0	-0.01	0.026	17.51	18.50	1.256	0.033	/
		Bottom side		40620	2593	50	0	0.15	0.123	17.51	18.50	1.256	0.155	/

10.17 LTE Band 42 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant1	QPSK	Left cheek	0	42590	3500	1	0	-0.03	0.029	23.92	25.00	1.282	0.037	33
		Left tilt		42590	3500	1	0	0.14	0.016	23.92	25.00	1.282	0.021	/
		Right cheek		42590	3500	1	0	-0.12	0.014	23.92	25.00	1.282	0.018	/
		Right tilt		42590	3500	1	0	0.01	0.009	23.92	25.00	1.282	0.012	/
Ant1	QPSK	Left cheek	0	42590	3500	50	0	0.14	0.020	22.98	24.00	1.265	0.025	/
		Left tilt		42590	3500	50	0	0.11	0.009	22.98	24.00	1.265	0.011	/
		Right cheek		42590	3500	50	0	0.01	0.010	22.98	24.00	1.265	0.013	/
		Right tilt		42590	3500	50	0	-0.19	0.009	22.98	24.00	1.265	0.011	/

Body-worn&Hotspot														
Ant1	QPSK	Front side	10	42590	3500	1	0	-0.07	0.087	23.92	25.00	1.282	0.112	/
		Back side		42590	3500	1	0	0.01	0.401	23.92	25.00	1.282	0.514	34
		Right side		42590	3500	1	0	-0.15	0.112	23.92	25.00	1.282	0.144	/
		Bottom side		42590	3500	1	0	0.05	0.135	23.92	25.00	1.282	0.173	/
Ant1	QPSK	Front side	10	42590	3500	50	0	0.03	0.073	22.98	24.00	1.265	0.092	/
		Back side		42590	3500	50	0	0.03	0.351	22.98	24.00	1.265	0.444	/
		Right side		42590	3500	50	0	0.11	0.113	22.98	24.00	1.265	0.143	/
		Bottom side		42590	3500	50	0	0.08	0.109	22.98	24.00	1.265	0.138	/

10.18 LTE Band 43 (20MHz Bandwidth)

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant1	QPSK	Left cheek	0	44590	3700	1	0	0.04	0.056	24.28	25.00	1.180	0.066	35
		Left tilt		44590	3700	1	0	-0.12	0.043	24.28	25.00	1.180	0.051	/
		Right cheek		44590	3700	1	0	0.12	0.037	24.28	25.00	1.180	0.044	/
		Right tilt		44590	3700	1	0	0.03	0.021	24.28	25.00	1.180	0.025	/
Ant1	QPSK	Left cheek	0	44590	3700	50	0	-0.08	0.053	23.27	24.00	1.183	0.063	/
		Left tilt		44590	3700	50	0	-0.14	0.044	23.27	24.00	1.183	0.052	/
		Right cheek		44590	3700	50	0	0.14	0.031	23.27	24.00	1.183	0.037	/
		Right tilt		44590	3700	50	0	0.11	0.022	23.27	24.00	1.183	0.026	/
Body-worn&Hotspot														
Ant1	QPSK	Front side	10	44590	3700	1	0	-0.12	0.261	24.28	25.00	1.180	0.308	/
		Back side		44590	3700	1	0	0.05	0.655	24.28	25.00	1.180	0.773	36
		Left side		44590	3700	1	0	-0.16	0.464	24.28	25.00	1.180	0.548	/
		Bottom side		44590	3700	1	0	0.07	0.335	24.28	25.00	1.180	0.395	/
Ant1	QPSK	Front side	10	44590	3700	50	0	0.16	0.233	23.27	24.00	1.183	0.276	/
		Back side		44590	3700	50	0	-0.09	0.525	23.27	24.00	1.183	0.621	/
		Left side		44590	3700	50	0	-0.08	0.408	23.27	24.00	1.183	0.483	/
		Bottom side		44590	3700	50	0	0.19	0.210	23.27	24.00	1.183	0.248	/

10.19 NR n2 (20MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	376000	1880	1	1	0.13	0.298	23.56	24.50	1.242	0.370	37
			Left tilt		376000	1880	1	1	0.01	0.088	23.56	24.50	1.242	0.109	/
			Right cheek		376000	1880	1	1	0.11	0.186	23.56	24.50	1.242	0.231	/
			Right tilt		376000	1880	1	1	-0.18	0.069	23.56	24.50	1.242	0.086	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	376000	1880	50	28	-0.06	0.273	23.46	24.50	1.271	0.347	/
			Left tilt		376000	1880	50	28	-0.08	0.093	23.46	24.50	1.271	0.118	/
			Right cheek		376000	1880	50	28	0.12	0.170	23.46	24.50	1.271	0.216	/
			Right tilt		376000	1880	50	28	-0.18	0.054	23.46	24.50	1.271	0.069	/
Body-worn&Hotspot															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	376000	1880	1	1	-0.05	0.370	23.56	24.50	1.242	0.459	/
			Back side		376000	1880	1	1	0.01	0.519	23.56	24.50	1.242	0.644	38
			Left side		376000	1880	1	1	0.18	0.260	23.56	24.50	1.242	0.323	/
			Right side		376000	1880	1	1	-0.11	0.127	23.56	24.50	1.242	0.158	/
			Bottom side		376000	1880	1	1	0.05	0.367	23.56	24.50	1.242	0.456	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	376000	1880	50	28	0.09	0.353	23.46	24.50	1.271	0.449	/
			Back side		376000	1880	50	28	-0.13	0.488	23.46	24.50	1.271	0.620	/
			Left side		376000	1880	50	28	-0.1	0.257	23.46	24.50	1.271	0.327	/
			Right side		376000	1880	50	28	0.09	0.133	23.46	24.50	1.271	0.169	/
			Bottom side		376000	1880	50	28	0.03	0.361	23.46	24.50	1.271	0.459	/

10.20 NR n5 (20MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	167300	836.5	1	1	0.03	0.054	23.39	24.50	1.291	0.069	39
			Left tilt		167300	836.5	1	1	0.16	0.049	23.39	24.50	1.291	0.063	/
			Right cheek		167300	836.5	1	1	0.09	0.048	23.39	24.50	1.291	0.062	/
			Right tilt		167300	836.5	1	1	-0.16	0.033	23.39	24.50	1.291	0.043	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	167300	836.5	50	28	-0.1	0.050	23.18	24.50	1.355	0.068	/
			Left tilt		167300	836.5	50	28	-0.16	0.036	23.18	24.50	1.355	0.049	/
			Right cheek		167300	836.5	50	28	-0.06	0.044	23.18	24.50	1.355	0.060	/
			Right tilt		167300	836.5	50	28	0.18	0.032	23.18	24.50	1.355	0.043	/

Body-worn&Hotspot															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	167300	836.5	1	1	0.08	0.133	23.39	24.50	1.291	0.172	/
			Back side		167300	836.5	1	1	0.06	0.145	23.39	24.50	1.291	0.187	40
			Left side		167300	836.5	1	1	0.09	0.058	23.39	24.50	1.291	0.075	/
			Right side		167300	836.5	1	1	0.07	0.096	23.39	24.50	1.291	0.124	/
			Bottom side		167300	836.5	1	1	-0.16	0.072	23.39	24.50	1.291	0.093	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	167300	836.5	50	28	-0.07	0.133	23.18	24.50	1.355	0.180	/
			Back side		167300	836.5	50	28	0.07	0.118	23.18	24.50	1.355	0.160	/
			Left side		167300	836.5	50	28	0.16	0.050	23.18	24.50	1.355	0.068	/
			Right side		167300	836.5	50	28	-0.18	0.086	23.18	24.50	1.355	0.117	/
			Bottom side		167300	836.5	50	28	0.05	0.073	23.18	24.50	1.355	0.099	/

10.21 NR n7 (20MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	507000	2535	1	1	0.14	0.021	18.45	19.50	1.274	0.027	41
			Left tilt		507000	2535	1	1	0.13	0.015	18.45	19.50	1.274	0.019	/
			Right cheek		507000	2535	1	1	0.01	0.014	18.45	19.50	1.274	0.018	/
			Right tilt		507000	2535	1	1	0.16	0.006	18.45	19.50	1.274	0.008	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	507000	2535	50	28	0.02	0.018	18.29	19.50	1.321	0.024	/
			Left tilt		507000	2535	50	28	-0.06	0.008	18.29	19.50	1.321	0.011	/
			Right cheek		507000	2535	50	28	0.17	0.009	18.29	19.50	1.321	0.012	/
			Right tilt		507000	2535	50	28	0.05	0.004	18.29	19.50	1.321	0.005	/
Body-worn&Hotspot															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	507000	2535	1	1	-0.16	0.073	18.45	19.50	1.274	0.093	/
			Back side		507000	2535	1	1	0.17	0.537	18.45	19.50	1.274	0.684	42
			Left side		507000	2535	1	1	-0.07	0.064	18.45	19.50	1.274	0.082	/
			Right side		507000	2535	1	1	-0.02	0.018	18.45	19.50	1.274	0.023	/
			Bottom side		507000	2535	1	1	-0.05	0.190	18.45	19.50	1.274	0.242	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	507000	2535	50	28	-0.04	0.069	18.29	19.50	1.321	0.091	/
			Back side		507000	2535	50	28	0.04	0.369	18.29	19.50	1.321	0.488	/
			Left side		507000	2535	50	28	0.13	0.069	18.29	19.50	1.321	0.091	/
			Right side		507000	2535	50	28	-0.06	0.012	18.29	19.50	1.321	0.016	/
			Bottom side		507000	2535	50	28	-0.14	0.189	18.29	19.50	1.321	0.250	/

10.22 NR n25 (20MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	376500	1882.5	1	1	0.12	0.288	23.71	24.50	1.199	0.345	43
			Left tilt		376500	1882.5	1	1	-0.12	0.102	23.71	24.50	1.199	0.122	/
			Right cheek		376500	1882.5	1	1	0.18	0.173	23.71	24.50	1.199	0.208	/
			Right tilt		376500	1882.5	1	1	0.05	0.080	23.71	24.50	1.199	0.096	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	376500	1882.5	50	28	0.19	0.249	23.66	24.50	1.213	0.302	/
			Left tilt		376500	1882.5	50	28	0.16	0.131	23.66	24.50	1.213	0.159	/
			Right cheek		376500	1882.5	50	28	0.12	0.215	23.66	24.50	1.213	0.261	/
			Right tilt		376500	1882.5	50	28	0.02	0.110	23.66	24.50	1.213	0.133	/
Body-worn&Hotspot															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	376500	1882.5	1	1	0.02	0.360	23.71	24.50	1.199	0.432	/
			Back side		376500	1882.5	1	1	0.02	0.508	23.71	24.50	1.199	0.609	44
			Left side		376500	1882.5	1	1	-0.1	0.243	23.71	24.50	1.199	0.291	/
			Right side		376500	1882.5	1	1	0.11	0.103	23.71	24.50	1.199	0.124	/
			Bottom side		376500	1882.5	1	1	-0.04	0.351	23.71	24.50	1.199	0.421	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	376500	1882.5	50	28	-0.12	0.357	23.66	24.50	1.213	0.433	/
			Back side		376500	1882.5	50	28	-0.17	0.496	23.66	24.50	1.213	0.602	/
			Left side		376500	1882.5	50	28	0.15	0.214	23.66	24.50	1.213	0.260	/
			Right side		376500	1882.5	50	28	-0.05	0.102	23.66	24.50	1.213	0.124	/
			Bottom side		376500	1882.5	50	28	-0.17	0.314	23.66	24.50	1.213	0.381	/

10.23 NR n66 (20MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	349000	1745	1	1	-0.07	0.367	23.15	24.00	1.216	0.446	45
			Left tilt		349000	1745	1	1	0.02	0.137	23.15	24.00	1.216	0.167	/
			Right cheek		349000	1745	1	1	-0.03	0.156	23.15	24.00	1.216	0.190	/
			Right tilt		349000	1745	1	1	0.07	0.126	23.15	24.00	1.216	0.153	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	349000	1745	50	28	0.06	0.361	23.08	24.00	1.236	0.446	/
			Left tilt		349000	1745	50	28	0.11	0.144	23.08	24.00	1.236	0.178	/
			Right cheek		349000	1745	50	28	-0.05	0.155	23.08	24.00	1.236	0.192	/
			Right tilt		349000	1745	50	28	-0.01	0.104	23.08	24.00	1.236	0.129	/

Body-worn&Hotspot															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	349000	1745	1	1	0.15	0.369	23.15	24.00	1.216	0.449	/
			Back side		349000	1745	1	1	0.08	0.417	23.15	24.00	1.216	0.507	46
			Left side		349000	1745	1	1	-0.1	0.323	23.15	24.00	1.216	0.393	/
			Right side		349000	1745	1	1	-0.17	0.114	23.15	24.00	1.216	0.139	/
			Bottom side		349000	1745	1	1	0.17	0.323	23.15	24.00	1.216	0.393	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	349000	1745	50	28	0.16	0.377	23.08	24.00	1.236	0.466	/
			Back side		349000	1745	50	28	-0.15	0.405	23.08	24.00	1.236	0.501	/
			Left side		349000	1745	50	28	-0.18	0.321	23.08	24.00	1.236	0.397	/
			Right side		349000	1745	50	28	0.02	0.118	23.08	24.00	1.236	0.146	/
			Bottom side		349000	1745	50	28	-0.06	0.336	23.08	24.00	1.236	0.415	/

10.24 NR n71 (20MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	136100	680.5	1	1	0.09	0.002	23.55	24.50	1.245	0.002	47
			Left tilt		136100	680.5	1	1	-0.02	0.001	23.55	24.50	1.245	0.001	/
			Right cheek		136100	680.5	1	1	0.19	0.001	23.55	24.50	1.245	0.001	/
			Right tilt		136100	680.5	1	1	-0.02	0.001	23.55	24.50	1.245	0.001	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Left cheek	0	136100	680.5	50	28	0.09	0.001	23.49	24.50	1.262	0.001	/
			Left tilt		136100	680.5	50	28	-0.19	0.001	23.49	24.50	1.262	0.001	/
			Right cheek		136100	680.5	50	28	0.17	0.001	23.49	24.50	1.262	0.001	/
			Right tilt		136100	680.5	50	28	0.1	0.001	23.49	24.50	1.262	0.001	/
Body-worn&Hotspot															
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	136100	680.5	1	1	-0.18	0.001	23.55	24.50	1.245	0.001	/
			Back side		136100	680.5	1	1	0.15	0.013	23.55	24.50	1.245	0.016	48
			Left side		136100	680.5	1	1	0.14	0.001	23.55	24.50	1.245	0.001	/
			Right side		136100	680.5	1	1	0.05	0.001	23.55	24.50	1.245	0.001	/
			Bottom side		136100	680.5	1	1	-0.13	0.001	23.55	24.50	1.245	0.001	/
Ant0	DFT-s-OFDM BPSK	DFT-15kHz	Front side	10	136100	680.5	50	28	0.18	0.001	23.49	24.50	1.262	0.001	/
			Back side		136100	680.5	50	28	-0.06	0.001	23.49	24.50	1.262	0.001	/
			Left side		136100	680.5	50	28	0.13	0.001	23.49	24.50	1.262	0.001	/
			Right side		136100	680.5	50	28	0.1	0.001	23.49	24.50	1.262	0.001	/
			Bottom side		136100	680.5	50	28	-0.15	0.001	23.49	24.50	1.262	0.001	/

10.25 NR n38 (40MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	519000	2595	1	1	-0.18	0.419	22.64	23.50	1.219	0.511	/
			Left tilt		519000	2595	1	1	0.17	0.208	22.64	23.50	1.219	0.254	/
			Right cheek		519000	2595	1	1	0.01	0.523	22.64	23.50	1.219	0.638	49
			Right tilt		519000	2595	1	1	0.05	0.172	22.64	23.50	1.219	0.210	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	519000	2595	50	28	-0.17	0.378	22.58	23.50	1.236	0.467	/
			Left tilt		519000	2595	50	28	-0.1	0.292	22.58	23.50	1.236	0.361	/
			Right cheek		519000	2595	50	28	0.11	0.484	22.58	23.50	1.236	0.598	/
			Right tilt		519000	2595	50	28	-0.12	0.171	22.58	23.50	1.236	0.211	/
Body-worn&Hotspot															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	519000	2595	1	1	-0.09	0.499	22.64	23.50	1.219	0.609	/
			Back side		519000	2595	1	1	0.05	0.509	22.64	23.50	1.219	0.620	50
			Right side		519000	2595	1	1	-0.18	0.492	22.64	23.50	1.219	0.600	/
			Bottom side		519000	2595	1	1	-0.14	0.296	22.64	23.50	1.219	0.361	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	519000	2595	50	28	0.01	0.486	22.58	23.50	1.236	0.601	/
			Back side		519000	2595	50	28	-0.03	0.478	22.58	23.50	1.236	0.591	/
			Right side		519000	2595	50	28	-0.09	0.469	22.58	23.50	1.236	0.580	/
			Bottom side		519000	2595	50	28	0.06	0.290	22.58	23.50	1.236	0.358	/

10.26 NR n41 (100MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	518598	2592.99	1	137	-0.11	0.429	22.37	23.50	1.297	0.556	/
			Left tilt		518598	2592.99	1	137	0.16	0.384	22.37	23.50	1.297	0.498	/
			Right cheek		518598	2592.99	1	137	0.15	0.658	22.37	23.50	1.297	0.854	51
			Right tilt		518598	2592.99	1	137	-0.06	0.208	22.37	23.50	1.297	0.270	/
			Right cheek		509202	2546.01	1	137	0.04	0.562	22.28	23.50	1.324	0.744	/
			Right cheek		528000	2640	1	137	-0.03	0.579	22.14	23.50	1.368	0.792	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	518598	2592.99	135	69	-0.06	0.381	22.33	23.50	1.309	0.499	/
			Left tilt		518598	2592.99	135	69	-0.04	0.394	22.33	23.50	1.309	0.516	/
			Right cheek		518598	2592.99	135	69	-0.17	0.567	22.33	23.50	1.309	0.742	/
			Right tilt		518598	2592.99	135	69	0.09	0.201	22.33	23.50	1.309	0.263	/

Body-worn&Hotspot															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	518598	2592.99	1	137	0.18	0.649	22.37	23.50	1.297	0.842	/
			Back side		518598	2592.99	1	137	-0.16	0.631	22.37	23.50	1.297	0.819	/
			Right side		518598	2592.99	1	137	-0.08	0.647	22.37	23.50	1.297	0.839	/
			Bottom side		518598	2592.99	1	137	-0.17	0.378	22.37	23.50	1.297	0.490	/
			Front side		509202	2546.01	1	137	-0.07	0.732	22.28	23.50	1.324	0.969	52
			Front side		528000	2640	1	137	0.09	0.619	22.14	23.50	1.368	0.847	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	518598	2592.99	135	69	-0.15	0.590	22.33	23.50	1.309	0.772	/
			Back side		518598	2592.99	135	69	-0.18	0.659	22.33	23.50	1.309	0.863	/
			Right side		518598	2592.99	135	69	-0.19	0.591	22.33	23.50	1.309	0.774	/
			Bottom side		518598	2592.99	135	69	-0.19	0.405	22.33	23.50	1.309	0.530	/

10.27 NR n77(3450-3650MHz) (100MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	636666	3549.99	1	137	-0.01	0.041	19.76	20.50	1.186	0.049	53
			Left tilt		636666	3549.99	1	137	-0.19	0.038	19.76	20.50	1.186	0.045	/
			Right cheek		636666	3549.99	1	137	-0.03	0.038	19.76	20.50	1.186	0.045	/
			Right tilt		636666	3549.99	1	137	0.11	0.023	19.76	20.50	1.186	0.027	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	636666	3549.99	135	69	0.12	0.035	19.73	20.50	1.194	0.042	/
			Left tilt		636666	3549.99	135	69	0.02	0.033	19.73	20.50	1.194	0.039	/
			Right cheek		636666	3549.99	135	69	-0.07	0.033	19.73	20.50	1.194	0.039	/
			Right tilt		636666	3549.99	135	69	-0.09	0.021	19.73	20.50	1.194	0.025	/
Body-worn&Hotspot															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	636666	3549.99	1	137	0.15	0.125	19.76	20.50	1.186	0.148	/
			Back side		636666	3549.99	1	137	-0.03	0.272	19.76	20.50	1.186	0.323	54
			Right side		636666	3549.99	1	137	0.12	0.128	19.76	20.50	1.186	0.152	/
			Bottom side		636666	3549.99	1	137	0.02	0.151	19.76	20.50	1.186	0.179	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	636666	3549.99	135	69	-0.05	0.114	19.73	20.50	1.194	0.136	/
			Back side		636666	3549.99	135	69	-0.17	0.244	19.73	20.50	1.194	0.291	/
			Right side		636666	3549.99	135	69	-0.09	0.140	19.73	20.50	1.194	0.167	/
			Bottom side		636666	3549.99	135	69	-0.03	0.148	19.73	20.50	1.194	0.177	/

10.28 NR n77 (3700-3980MHz)(100MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	656000	3840	1	137	0.01	0.066	19.59	20.50	1.233	0.081	55
			Left tilt		656000	3840	1	137	-0.06	0.054	19.59	20.50	1.233	0.067	/
			Right cheek		656000	3840	1	137	-0.1	0.047	19.59	20.50	1.233	0.058	/
			Right tilt		656000	3840	1	137	0.19	0.010	19.59	20.50	1.233	0.012	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	656000	3840	135	69	0.1	0.063	19.57	20.50	1.239	0.078	/
			Left tilt		656000	3840	135	69	-0.15	0.052	19.57	20.50	1.239	0.064	/
			Right cheek		656000	3840	135	69	-0.11	0.048	19.57	20.50	1.239	0.059	/
			Right tilt		656000	3840	135	69	0.13	0.036	19.57	20.50	1.239	0.045	/
Body-worn&Hotspot															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	656000	3840	1	137	-0.05	0.265	19.59	20.50	1.233	0.327	/
			Back side		656000	3840	1	137	0.07	0.534	19.59	20.50	1.233	0.658	/
			Right side		656000	3840	1	137	-0.07	0.506	19.59	20.50	1.233	0.624	/
			Bottom side		656000	3840	1	137	-0.17	0.270	19.59	20.50	1.233	0.333	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	656000	3840	135	69	0.01	0.289	19.57	20.50	1.239	0.358	/
			Back side		656000	3840	135	69	-0.09	0.618	19.57	20.50	1.239	0.766	56
			Right side		656000	3840	135	69	-0.05	0.514	19.57	20.50	1.239	0.637	/
			Bottom side		656000	3840	135	69	-0.14	0.315	19.57	20.50	1.239	0.390	/

10.29 NR n78 (3450-3650MHz)(100MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	636666	3549.99	1	137	0.07	0.069	19.64	20.50	1.219	0.084	57
			Left tilt		636666	3549.99	1	137	0.14	0.012	19.64	20.50	1.219	0.015	/
			Right cheek		636666	3549.99	1	137	-0.1	0.024	19.64	20.50	1.219	0.029	/
			Right tilt		636666	3549.99	1	137	0.04	0.008	19.64	20.50	1.219	0.010	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	636666	3549.99	135	69	-0.16	0.035	19.52	20.50	1.253	0.044	/
			Left tilt		636666	3549.99	135	69	-0.05	0.036	19.52	20.50	1.253	0.045	/
			Right cheek		636666	3549.99	135	69	0.18	0.024	19.52	20.50	1.253	0.030	/
			Right tilt		636666	3549.99	135	69	-0.06	0.016	19.52	20.50	1.253	0.020	/
Body-worn&Hotspot															

Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	636666	3549.99	1	137	0.11	0.105	19.64	20.50	1.219	0.128	/
			Back side		636666	3549.99	1	137	0.15	0.271	19.64	20.50	1.219	0.330	58
			Right side		636666	3549.99	1	137	0.08	0.142	19.64	20.50	1.219	0.173	/
			Bottom side		636666	3549.99	1	137	0.14	0.130	19.64	20.50	1.219	0.158	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	636666	3549.99	135	69	0.12	0.098	19.52	20.50	1.253	0.123	/
			Back side		636666	3549.99	135	69	0.08	0.193	19.52	20.50	1.253	0.242	/
			Right side		636666	3549.99	135	69	-0.05	0.138	19.52	20.50	1.253	0.173	/
			Bottom side		636666	3549.99	135	69	-0.16	0.141	19.52	20.50	1.253	0.177	/

10.30 NR n78 (3700-3800MHz)(100MHz Bandwidth)

Antenna	Mode	SCS	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	650000	3750	1	137	0.05	0.058	19.55	20.50	1.245	0.072	59
			Left tilt		650000	3750	1	137	-0.03	0.055	19.55	20.50	1.245	0.068	/
			Right cheek		650000	3750	1	137	0.19	0.054	19.55	20.50	1.245	0.067	/
			Right tilt		650000	3750	1	137	0.15	0.041	19.55	20.50	1.245	0.051	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Left cheek	0	650000	3750	135	69	0.15	0.042	19.49	20.50	1.262	0.053	/
			Left tilt		650000	3750	135	69	0.02	0.056	19.49	20.50	1.262	0.071	/
			Right cheek		650000	3750	135	69	-0.01	0.056	19.49	20.50	1.262	0.071	/
			Right tilt		650000	3750	135	69	0.03	0.045	19.49	20.50	1.262	0.057	/
Body-worn&Hotspot															
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	650000	3750	1	137	-0.14	0.259	19.55	20.50	1.245	0.322	/
			Back side		650000	3750	1	137	0.16	0.704	19.55	20.50	1.245	0.876	60
			Right side		650000	3750	1	137	0.03	0.492	19.55	20.50	1.245	0.612	/
			Bottom side		650000	3750	1	137	-0.1	0.283	19.55	20.50	1.245	0.352	/
Ant1	DFT-s-OFDM BPSK	DFT-30kHz	Front side	10	650000	3750	135	69	-0.06	0.255	19.49	20.50	1.262	0.322	/
			Back side		650000	3750	135	69	0.05	0.535	19.49	20.50	1.262	0.675	/
			Right side		650000	3750	135	69	-0.16	0.497	19.49	20.50	1.262	0.627	/
			Bottom side		650000	3750	135	69	0.13	0.271	19.49	20.50	1.262	0.342	/

10.31 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle(%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant3	DH5	Left cheek	0	2402	0.06	0.014	0.014	11.71	12.50	1.199	100.00	1.000	0.017	61
		Left tilt	0	2402	0.15	0.007	0.007	11.71	12.50	1.199	100.00	1.000	0.008	
		Right cheek	0	2402	-0.03	0.009	0.009	11.71	12.50	1.199	100.00	1.000	0.011	
		Right tilt	0	2402	0.15	0.007	0.007	11.71	12.50	1.199	100.00	1.000	0.008	
Body-worn&Hotspot														
Ant3	DH5	Front side	10	2402	0.04	0.004	0.004	11.71	12.50	1.199	100.00	1.000	0.005	62
		Back side	10	2402	0.09	0.001	0.001	11.71	12.50	1.199	100.00	1.000	0.001	
		Right side	10	2402	0.04	0.001	0.001	11.71	12.50	1.199	100.00	1.000	0.001	
		Top side	10	2402	-0.08	0.001	0.001	11.71	12.50	1.199	100.00	1.000	0.001	

10.32 WIFI 2.4GHz

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/k g)	Meas. Power (dBm)	Max. tune- up power(dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
Ant.3	802.11 b 1Mbps	Left cheek	0	6	2437	-0.18	0.147	14.97	16.00	1.268	97.92	1.021	0.190	/
		Left tilt		6	2437	0.06	0.084	14.97	16.00	1.268	97.92	1.021	0.109	/
		Right cheek		6	2437	-0.04	0.096	14.97	16.00	1.268	97.92	1.021	0.124	/
		Right tilt		6	2437	0.03	0.045	14.97	16.00	1.268	97.92	1.021	0.058	/
Ant.2	802.11 b 1Mbps	Left cheek	0	11	2462	0.12	0.419	14.13	15.00	1.222	97.92	1.021	0.523	63
		Left tilt		11	2462	0.18	0.368	14.13	15.00	1.222	97.92	1.021	0.459	/
		Right cheek		11	2462	0.16	0.261	14.13	15.00	1.222	97.92	1.021	0.326	/
		Right tilt		11	2462	-0.18	0.130	14.13	15.00	1.222	97.92	1.021	0.162	/
Body-worn &Hotspot														
Ant.3	802.11 b 1Mbps	Front side	10	6	2437	-0.04	0.030	14.97	16.00	1.268	97.92	1.021	0.039	/
		Back side		6	2437	-0.05	0.089	14.97	16.00	1.268	97.92	1.021	0.115	/
		Right side		6	2437	-0.04	0.084	14.97	16.00	1.268	97.92	1.021	0.109	/
		Top side		6	2437	0.14	0.042	14.97	16.00	1.268	97.92	1.021	0.054	/
Ant.2	802.11 b 1Mbps	Front side	10	11	2462	0.06	0.110	14.13	15.00	1.222	97.92	1.021	0.137	/
		Back side		11	2462	0.06	0.128	14.13	15.00	1.222	97.92	1.021	0.160	64
		Right side		11	2462	-0.17	0.098	14.13	15.00	1.222	97.92	1.021	0.122	/
		Top side		11	2462	0.10	0.055	14.13	15.00	1.222	97.92	1.021	0.069	/

10.33 WIFI 5GHz

Test Band	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
WLAN 5.3G	Ant.3	802.11a 6Mbps	Left cheek	0	52	5260	0.07	0.272	10.41	11.50	1.285	99.19	1.008	0.352	65
			Left tilt		52	5260	0.03	0.194	10.41	11.50	1.285	99.19	1.008	0.251	/
			Right cheek		52	5260	0.09	0.156	10.41	11.50	1.285	99.19	1.008	0.202	/
			Right tilt		52	5260	0.14	0.111	10.41	11.50	1.285	99.19	1.008	0.144	/
	Ant.2	802.11a 6Mbps	Left cheek	0	52	5260	0.13	0.106	10.87	12.00	1.297	99.19	1.008	0.139	/
			Left tilt		52	5260	0.16	0.125	10.87	12.00	1.297	99.19	1.008	0.163	/
			Right cheek		52	5260	-0.07	0.067	10.87	12.00	1.297	99.19	1.008	0.088	/
			Right tilt		52	5260	-0.12	0.045	10.87	12.00	1.297	99.19	1.008	0.059	/
WLAN 5.6G	Ant.3	802.11a 6Mbps	Left cheek	0	116	5580	0.11	0.239	10.40	11.50	1.288	99.19	1.008	0.310	66
			Left tilt		116	5580	0.16	0.154	10.40	11.50	1.288	99.19	1.008	0.200	/
			Right cheek		116	5580	-0.03	0.162	10.40	11.50	1.288	99.19	1.008	0.210	/
			Right tilt		116	5580	-0.07	0.128	10.40	11.50	1.288	99.19	1.008	0.166	/
	Ant.2	802.11a 6Mbps	Left cheek	0	140	5700	-0.11	0.101	9.75	11.00	1.334	99.19	1.008	0.136	/
			Left tilt		140	5700	0.13	0.114	9.75	11.00	1.334	99.19	1.008	0.153	/
			Right cheek		140	5700	-0.01	0.075	9.75	11.00	1.334	99.19	1.008	0.101	/
			Right tilt		140	5700	-0.08	0.041	9.75	11.00	1.334	99.19	1.008	0.055	/
WLAN 5.8G	Ant.3	802.11a 6Mbps	Left cheek	0	165	5825	-0.08	0.241	10.19	11.00	1.205	99.19	1.008	0.293	67
			Left tilt		165	5825	-0.01	0.161	10.19	11.00	1.205	99.19	1.008	0.196	/
			Right cheek		165	5825	0.14	0.106	10.19	11.00	1.205	99.19	1.008	0.129	/
			Right tilt		165	5825	0.11	0.067	10.19	11.00	1.205	99.19	1.008	0.081	/
	Ant.2	802.11a 6Mbps	Left cheek	0	149	5745	0.06	0.171	10.10	11.00	1.230	99.19	1.008	0.212	/
			Left tilt		149	5745	-0.02	0.137	10.10	11.00	1.230	99.19	1.008	0.170	/
			Right cheek		149	5745	-0.11	0.216	10.10	11.00	1.230	99.19	1.008	0.268	/
			Right tilt		149	5745	-0.19	0.228	10.10	11.00	1.230	99.19	1.008	0.283	/
Body-wron															
WLAN 5.3G	Ant.3	802.11a 6Mbps	Front side	10	52	5260	0.12	0.060	10.41	11.50	1.285	99.19	1.008	0.078	/
			Back side		52	5260	-0.17	0.154	10.41	11.50	1.285	99.19	1.008	0.200	/
	Ant.2	802.11a 6Mbps	Front side		52	5260	0.09	0.053	10.87	12.00	1.297	99.19	1.008	0.069	/
			Back side		52	5260	-0.04	0.168	10.87	12.00	1.297	99.19	1.008	0.220	68
WLAN 5.6G	Ant.3	802.11a 6Mbps	Front side	10	116	5580	0.07	0.069	10.40	11.50	1.288	99.19	1.008	0.090	/
			Back side		116	5580	-0.14	0.126	10.40	11.50	1.288	99.19	1.008	0.164	/
	Ant.2	802.11a 6Mbps	Front side		140	5700	0.10	0.039	9.75	11.00	1.334	99.19	1.008	0.052	/
			Back side		140	5700	0.07	0.187	9.75	11.00	1.334	99.19	1.008	0.251	69
Hotspot															
	Ant.3	802.11a	Front side	10	48	5240	0.07	0.102	10.35	11.50	1.303	99.19	1.008	0.134	/

WLAN 5.2G		6Mbps	Back side		48	5240	-0.06	0.123	10.35	11.50	1.303	99.19	1.008	0.162	/
			Right side		48	5240	-0.13	0.101	10.35	11.50	1.303	99.19	1.008	0.133	/
			Top side		48	5240	0.02	0.076	10.35	11.50	1.303	99.19	1.008	0.100	/
	Ant.2	802.11a 6Mbps	Front side	10	48	5240	0.10	0.050	10.36	11.50	1.300	99.19	1.008	0.066	/
			Back side		48	5240	0.09	0.187	10.36	11.50	1.300	99.19	1.008	0.245	70
			Right side		48	5240	0.15	0.148	10.36	11.50	1.300	99.19	1.008	0.194	/
			Top side		48	5240	0.10	0.127	10.36	11.50	1.300	99.19	1.008	0.166	/
WLAN 5.8G	Ant.3	802.11a 6Mbps	Front side	10	165	5825	0.16	0.087	10.19	11.00	1.205	99.19	1.008	0.106	/
			Back side		165	5825	0.02	0.106	10.19	11.00	1.205	99.19	1.008	0.129	/
			Right side		165	5825	0.05	0.243	10.19	11.00	1.205	99.19	1.008	0.295	/
			Top side		165	5825	0.04	0.118	10.19	11.00	1.205	99.19	1.008	0.143	/
	Ant.2	802.11a 6Mbps	Front side	10	149	5745	0.13	0.083	10.10	11.00	1.230	99.19	1.008	0.103	/
			Back side		149	5745	0.08	0.403	10.10	11.00	1.230	99.19	1.008	0.500	71
			Right side		149	5745	-0.06	0.075	10.10	11.00	1.230	99.19	1.008	0.093	/
			Top side		149	5745	-0.10	0.143	10.10	11.00	1.230	99.19	1.008	0.177	/

Test Band	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	10g Scaled SAR (W/kg)	Meas. No.
Extremity															
WLAN 5.3G	Ant.3	802.11a 6Mbps	Front side	0	52	5260	-0.17	0.144	9.71	10.50	1.199	99.19	1.008	0.174	/
			Back side		52	5260	0.07	0.116	9.71	10.50	1.199	99.19	1.008	0.140	/
			Right side		52	5260	0.16	0.151	9.71	10.50	1.199	99.19	1.008	0.183	/
			Top side		52	5260	0.12	0.040	9.71	10.50	1.199	99.19	1.008	0.048	/
	Ant.2	802.11a 6Mbps	Front side	0	52	5260	0.14	0.089	10.87	12.00	1.297	99.19	1.008	0.116	/
			Back side		52	5260	0.12	0.183	10.87	12.00	1.297	99.19	1.008	0.239	72
			Right side		52	5260	0.19	0.063	10.87	12.00	1.297	99.19	1.008	0.082	/
			Top side		52	5260	-0.04	0.177	10.87	12.00	1.297	99.19	1.008	0.231	/
WLAN 5.6G	Ant.3	802.11a 6Mbps	Front side	0	116	5580	0.11	0.157	10.40	11.50	1.288	99.19	1.008	0.204	/
			Back side		116	5580	0.08	0.094	10.40	11.50	1.288	99.19	1.008	0.122	/
			Right side		116	5580	0.03	0.147	10.40	11.50	1.288	99.19	1.008	0.191	/
			Top side		116	5580	-0.01	0.034	10.40	11.50	1.288	99.19	1.008	0.044	/
	Ant.2	802.11a 6Mbps	Front side	0	140	5700	0.07	0.067	9.75	11.00	1.334	99.19	1.008	0.090	/
			Back side		140	5700	0.06	0.215	9.75	11.00	1.334	99.19	1.008	0.289	73
			Right side		140	5700	-0.03	0.064	9.75	11.00	1.334	99.19	1.008	0.086	/
			Top side		140	5700	-0.09	0.149	9.75	11.00	1.334	99.19	1.008	0.200	/

10.34 WIFI 6G

Test Band	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
WIFI 6G	Ant.3	802.11 ax160	Left Cheek	0	15	6025	-0.01	0.462	14.63	15.00	1.089	98.85	1.012	0.509	74
			Left Tilt		15	6025	0.14	0.257	14.63	15.00	1.089	98.85	1.012	0.283	
			Right Cheek		15	6025	-0.10	0.231	14.63	15.00	1.089	98.85	1.012	0.255	
			Right Tilt		15	6025	-0.12	0.225	14.63	15.00	1.089	98.85	1.012	0.248	
			Left Cheek		47	6185	0.04	0.310	12.02	13.00	1.253	98.85	1.012	0.393	
					79	6345	-0.03	0.307	11.35	12.00	1.161	98.85	1.012	0.361	
					111	6505	0.11	0.262	12.19	13.00	1.205	98.85	1.012	0.319	
					143	6665	0.04	0.263	12.37	13.00	1.156	98.85	1.012	0.308	
					175	6825	-0.15	0.245	12.54	13.00	1.112	98.85	1.012	0.276	
					207	6985	-0.17	0.144	10.18	11.00	1.208	98.85	1.012	0.176	
	Ant.2	802.11 ax160	Left Cheek	0	143	6665	0.14	0.207	13.18	13.50	1.076	98.85	1.012	0.225	
			Left Tilt		143	6665	-0.09	0.194	13.18	13.50	1.076	98.85	1.012	0.211	
			Right Cheek		143	6665	-0.16	0.188	13.18	13.50	1.076	98.85	1.012	0.205	
			Right Tilt		143	6665	0.00	0.206	13.18	13.50	1.076	98.85	1.012	0.224	
			Left Cheek		15	6025	0.08	0.267	13.09	13.50	1.099	98.85	1.012	0.297	
					47	6185	0.19	0.250	12.38	13.00	1.153	98.85	1.012	0.292	
					79	6345	0.03	0.227	10.95	11.00	1.012	98.85	1.012	0.232	
					111	6505	0.18	0.244	12.49	13.00	1.125	98.85	1.012	0.278	
					175	6825	0.11	0.230	12.63	13.00	1.089	98.85	1.012	0.253	
					207	6985	-0.02	0.251	11.90	13.00	1.288	98.85	1.012	0.327	
Body-worn&Hotspots															
WIFI 6G	Ant.3	802.11 ax160	Front Side	10	15	6025	0.09	0.184	14.63	15.00	1.089	98.85	1.012	0.203	
			Back Side		15	6025	0.14	0.405	14.63	15.00	1.089	98.85	1.012	0.446	
			Right Edge		15	6025	-0.05	0.573	14.63	15.00	1.089	98.85	1.012	0.631	75
			Top Edge		15	6025	0.19	0.108	14.63	15.00	1.089	98.85	1.012	0.119	
			Left Edge		47	6185	0.09	0.434	12.02	13.00	1.253	98.85	1.012	0.550	
					79	6345	0.09	0.488	11.35	12.00	1.161	98.85	1.012	0.573	
					111	6505	0.07	0.408	12.19	13.00	1.205	98.85	1.012	0.498	
					143	6665	-0.03	0.367	12.37	13.00	1.156	98.85	1.012	0.429	
					175	6825	-0.03	0.207	12.54	13.00	1.112	98.85	1.012	0.233	
					207	6985	-0.19	0.083	10.18	11.00	1.208	98.85	1.012	0.101	
	Ant.2	802.11 ax160	Front Side	10	143	6665	-0.03	0.070	13.18	13.50	1.076	98.85	1.012	0.076	
			Back Side		143	6665	-0.14	0.199	13.18	13.50	1.076	98.85	1.012	0.217	
			Right Edge		143	6665	0.19	0.040	13.18	13.50	1.076	98.85	1.012	0.044	
			Top Edge		143	6665	0.05	0.180	13.18	13.50	1.076	98.85	1.012	0.196	
			Back Side		15	6025	0.08	0.406	13.09	13.50	1.099	98.85	1.012	0.452	

					47	6185	-0.03	0.361	12.38	13.00	1.153	98.85	1.012	0.421	
					79	6345	0.17	0.301	10.95	11.00	1.012	98.85	1.012	0.308	
					111	6505	0.16	0.342	12.49	13.00	1.125	98.85	1.012	0.389	
					175	6825	0.17	0.167	12.63	13.00	1.089	98.85	1.012	0.184	
					207	6985	-0.14	0.137	11.90	13.00	1.288	98.85	1.012	0.179	

Test Band	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	10g Scaled SAR (W/kg)	Meas. No.
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Extremity

WIFI 6G	Ant.3	802.11 ax160	Front Side	0	15	6025	-0.01	0.151	14.63	15.00	1.089	98.85	1.012	0.166	
			Back Side		15	6025	0.01	0.248	14.63	15.00	1.089	98.85	1.012	0.273	
			Right Edge		15	6025	0.01	0.458	14.63	15.00	1.089	98.85	1.012	0.505	76
			Top Edge		15	6025	-0.14	0.089	14.63	15.00	1.089	98.85	1.012	0.098	
			Left Edge		47	6185	-0.15	0.370	12.02	13.00	1.253	98.85	1.012	0.469	
					79	6345	-0.05	0.326	11.35	12.00	1.161	98.85	1.012	0.383	
					111	6505	0.17	0.367	12.19	13.00	1.205	98.85	1.012	0.448	
					143	6665	-0.17	0.351	12.37	13.00	1.156	98.85	1.012	0.411	
					175	6825	0.00	0.351	12.54	13.00	1.112	98.85	1.012	0.395	
					207	6985	-0.05	0.324	10.18	11.00	1.208	98.85	1.012	0.396	
	Ant.2	802.11 ax160	Front Side	0	143	6665	-0.07	0.135	13.18	13.50	1.076	98.85	1.012	0.147	
			Back Side		143	6665	0.00	0.199	13.18	13.50	1.076	98.85	1.012	0.217	
			Right Edge		143	6665	0.08	0.027	13.18	13.50	1.076	98.85	1.012	0.029	
			Top Edge		143	6665	-0.06	0.227	13.18	13.50	1.076	98.85	1.012	0.247	
			Top Edge		15	6025	0.13	0.413	13.09	13.50	1.099	98.85	1.012	0.459	
					47	6185	0.07	0.260	12.38	13.00	1.153	98.85	1.012	0.303	
					79	6345	-0.05	0.250	10.95	11.00	1.012	98.85	1.012	0.256	
					111	6505	0.09	0.250	12.49	13.00	1.125	98.85	1.012	0.285	
					175	6825	0.07	0.242	12.63	13.00	1.089	98.85	1.012	0.267	
					207	6985	0.00	0.234	11.90	13.00	1.288	98.85	1.012	0.305	

10.35 NFC SAR

1. According to the 2022.04 TCBC Workshop meeting, the power threshold is $\leq 100\text{MHz}$, refer to P6s.

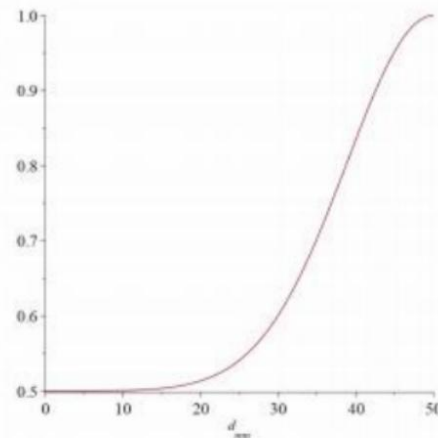
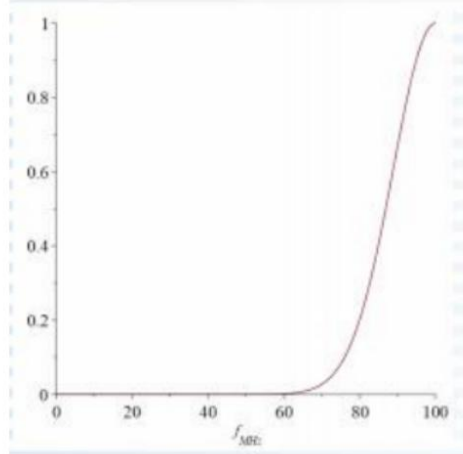
$$P_{7X}(d_{mm}, f_{MHz}) := \begin{cases} P_{6S}(d_{mm}, f_{MHz}) & f_{MHz} \leq 100 \\ P_{6to7}(d_{mm}, f_{MHz}) & 100 < f_{MHz} \leq 300 \\ P_7(d_{mm}, f_{MHz}) & 300 < f_{MHz} \end{cases}$$

2. For portable products, when using a distance of $\leq 50\text{mm}$, such as mobile phone NFC, P6s is calculated with the following formula calculate.

$$S_f(f_{MHz}) \cdot P_{431a}(d_{mm}, f_{MHz}) + (1 - S_f(f_{MHz})) \cdot S_d(d_{mm}) P_{431b1}(50., 100.) \cdot \left(1 + \log_{10}\left(\frac{100.}{f_{MHz}}\right)\right) \quad d_{mm} \leq 50 \text{ and } f_{MHz} \leq 100$$

3. The smoothing functions S_f and S_d in P6s calculate the limits based on KDB 447498 V06 and are calculated as follows.

$$S_f(f_{MHz}) := \exp\left(-10 \frac{(f_{MHz} - f_{max})^2}{\Delta f^2}\right) \quad S_d(d_{mm}) := 0.5 + 0.5 \cdot \exp\left(-10 \frac{(d_{mm} - d_{max})^2}{\Delta d^2}\right)$$



d≤50mm				
f Max(MHz)	100		d Max(mm)	50
f MHz	13.56		d(mm)	5
△f(MHz)	100		△d	50
S _F (f _{MHz})	0.000568861		S _d (dmm)	0.50015177
P6s(mW)	443.1257378			
Note: SAR testing is required when the distance is 5mm and the power is greater than 443.13mW.				

4. According to the ANSI C63.10 clause 11.12.2.2:

The value of maximum peak output power is according to the method described in ANSI C63.10 clause 11.12.2.2 General procedure for conducted measurements in restricted bands:

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- d) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- e) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Mode	f (MHz)	Max. E-Field strength (dB μ V/m)	D (m)	Ground reflection factor (dB)	ERP (dBm)
NFC (13.56MHz)	13.56	47.26	3	6	-31.54

Note:

1. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz).

2. ERP = $47.26 + 20 \cdot \log(3) - 104.8 + 6 = -31.54$ (dBm)

According to the FCC KDB 447498 D04

Estimated SAR: SAR test = $1.6 \cdot P_{\text{ant}} / P_{\text{th}}$ [W/kg]

Estimated SAR	$1.6 \cdot P_{\text{ant}} / P_{\text{th}}$ [W/kg]		
Pmeas.(dBm)	-31.54	Pmeas.(mW)	0.001
Pth.(mW)	443.13		
NFC Estimated 1g SAR [W/kg]	0.001		

11 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

11.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot
1	WWAN+WIFI 2.4G+BT	Yes	Yes	Yes
2	WWAN+WIFI 5G+BT	Yes	Yes	Yes
3	WWAN+WIFI 6G+BT	Yes	Yes	Yes

Note:

1. WWAN antennas can switch automatically, the standards supported by WWAN are(WCDMA/LTE/SA(5G NR)/ENDC(LTE + 5G NR)).
2. The maximum SAR summation is calculated based on the same configuration and test position.
3. The simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst simultaneous transmission combinations is shown in this report.
4. For the test data of 6G WiFi, please refer to the report No.BL-SH2580913-702 which is released by Shenzhen Balun Technology Co., Ltd.

11.2 Sum SAR of Simultaneous Transmission

11.2.1 Head SAR of Simultaneous Transmission for WWAN+WLAN+BT

Band	Antenna	Position	Stand alone SAR					SUM		
			1	2	3	4	5			
			WWAN	2.4GWIFI	5G WIFI	6G WIFI	Bluetooth	1+2+5	1+3+5	1+4+5
GSM 850	Ant.0	Left Cheek	0.428	0.523	0.352	0.509	0.017	0.968	0.797	0.954
		Left Tilt	0.210	0.459	0.251	0.283	0.008	0.677	0.469	0.501
		Right Cheek	0.147	0.326	0.268	0.255	0.011	0.484	0.426	0.413
		Right Tilt	0.088	0.162	0.283	0.248	0.008	0.258	0.379	0.344
GSM 1900	Ant.0	Left Cheek	0.293	0.523	0.352	0.509	0.017	0.833	0.662	0.819
		Left Tilt	0.178	0.459	0.251	0.283	0.008	0.645	0.437	0.469
		Right Cheek	0.182	0.326	0.268	0.255	0.011	0.519	0.461	0.448
		Right Tilt	0.155	0.162	0.283	0.248	0.008	0.325	0.446	0.411
WCDMA B2	Ant.0	Left Cheek	0.268	0.523	0.352	0.509	0.017	0.808	0.637	0.794
		Left Tilt	0.130	0.459	0.251	0.283	0.008	0.597	0.389	0.421
		Right Cheek	0.159	0.326	0.268	0.255	0.011	0.496	0.438	0.425
		Right Tilt	0.067	0.162	0.283	0.248	0.008	0.237	0.358	0.323
WCDMA B4	Ant.0	Left Cheek	0.357	0.523	0.352	0.509	0.017	0.897	0.726	0.883
		Left Tilt	0.208	0.459	0.251	0.283	0.008	0.675	0.467	0.499
		Right Cheek	0.250	0.326	0.268	0.255	0.011	0.587	0.529	0.516
		Right Tilt	0.141	0.162	0.283	0.248	0.008	0.311	0.432	0.397
WCDMA B5	Ant.0	Left Cheek	0.131	0.523	0.352	0.509	0.017	0.671	0.500	0.657
		Left Tilt	0.093	0.459	0.251	0.283	0.008	0.560	0.352	0.384
		Right Cheek	0.104	0.326	0.268	0.255	0.011	0.441	0.383	0.370
		Right Tilt	0.093	0.162	0.283	0.248	0.008	0.263	0.384	0.349
LTE B2	Ant.0	Left Cheek	0.224	0.523	0.352	0.509	0.017	0.764	0.593	0.750
		Left Tilt	0.102	0.459	0.251	0.283	0.008	0.569	0.361	0.393
		Right Cheek	0.137	0.326	0.268	0.255	0.011	0.474	0.416	0.403
		Right Tilt	0.091	0.162	0.283	0.248	0.008	0.261	0.382	0.347
LTE B5	Ant.0	Left Cheek	0.088	0.523	0.352	0.509	0.017	0.628	0.457	0.614
		Left Tilt	0.053	0.459	0.251	0.283	0.008	0.520	0.312	0.344
		Right Cheek	0.062	0.326	0.268	0.255	0.011	0.399	0.341	0.328
		Right Tilt	0.043	0.162	0.283	0.248	0.008	0.213	0.334	0.299
LTE B7	Ant.0	Left Cheek	0.021	0.523	0.352	0.509	0.017	0.561	0.390	0.547
		Left Tilt	0.015	0.459	0.251	0.283	0.008	0.482	0.274	0.306
		Right Cheek	0.018	0.326	0.268	0.255	0.011	0.355	0.297	0.284
		Right Tilt	0.014	0.162	0.283	0.248	0.008	0.184	0.305	0.270
LTE B12	Ant.0	Left Cheek	0.084	0.523	0.352	0.509	0.017	0.624	0.453	0.610
		Left Tilt	0.053	0.459	0.251	0.283	0.008	0.520	0.312	0.344
		Right Cheek	0.061	0.326	0.268	0.255	0.011	0.398	0.340	0.327

		Right Tilt	0.044	0.162	0.283	0.248	0.008	0.214	0.335	0.300
LTE B13	Ant.0	Left Cheek	0.084	0.523	0.352	0.509	0.017	0.624	0.453	0.610
		Left Tilt	0.061	0.459	0.251	0.283	0.008	0.528	0.320	0.352
		Right Cheek	0.066	0.326	0.268	0.255	0.011	0.403	0.345	0.332
		Right Tilt	0.042	0.162	0.283	0.248	0.008	0.212	0.333	0.298
LTE B25	Ant.0	Left Cheek	0.178	0.523	0.352	0.509	0.017	0.718	0.547	0.704
		Left Tilt	0.104	0.459	0.251	0.283	0.008	0.571	0.363	0.395
		Right Cheek	0.139	0.326	0.268	0.255	0.011	0.476	0.418	0.405
		Right Tilt	0.094	0.162	0.283	0.248	0.008	0.264	0.385	0.350
LTE B26	Ant.0	Left Cheek	0.109	0.523	0.352	0.509	0.017	0.649	0.478	0.635
		Left Tilt	0.082	0.459	0.251	0.283	0.008	0.549	0.341	0.373
		Right Cheek	0.071	0.326	0.268	0.255	0.011	0.408	0.350	0.337
		Right Tilt	0.053	0.162	0.283	0.248	0.008	0.223	0.344	0.309
LTE B66	Ant.0	Left Cheek	0.245	0.523	0.352	0.509	0.017	0.785	0.614	0.771
		Left Tilt	0.150	0.459	0.251	0.283	0.008	0.617	0.409	0.441
		Right Cheek	0.177	0.326	0.268	0.255	0.011	0.514	0.456	0.443
		Right Tilt	0.124	0.162	0.283	0.248	0.008	0.294	0.415	0.380
LTE B71	Ant.0	Left Cheek	0.007	0.523	0.352	0.509	0.017	0.547	0.376	0.533
		Left Tilt	0.005	0.459	0.251	0.283	0.008	0.472	0.264	0.296
		Right Cheek	0.006	0.326	0.268	0.255	0.011	0.343	0.285	0.272
		Right Tilt	0.002	0.162	0.283	0.248	0.008	0.172	0.293	0.258
LTE B38	Ant.0	Left Cheek	0.011	0.523	0.352	0.509	0.017	0.551	0.380	0.537
		Left Tilt	0.007	0.459	0.251	0.283	0.008	0.474	0.266	0.298
		Right Cheek	0.007	0.326	0.268	0.255	0.011	0.344	0.286	0.273
		Right Tilt	0.006	0.162	0.283	0.248	0.008	0.176	0.297	0.262
LTE B41	Ant.0	Left Cheek	0.015	0.523	0.352	0.509	0.017	0.555	0.384	0.541
		Left Tilt	0.011	0.459	0.251	0.283	0.008	0.478	0.270	0.302
		Right Cheek	0.013	0.326	0.268	0.255	0.011	0.350	0.292	0.279
		Right Tilt	0.010	0.162	0.283	0.248	0.008	0.180	0.301	0.266
LTE B42	Ant.1	Left Cheek	0.076	0.523	0.352	0.509	0.017	0.616	0.445	0.602
		Left Tilt	0.044	0.459	0.251	0.283	0.008	0.511	0.303	0.335
		Right Cheek	0.038	0.326	0.268	0.255	0.011	0.375	0.317	0.304
		Right Tilt	0.013	0.162	0.283	0.248	0.008	0.183	0.304	0.269
LTE B43	Ant.1	Left Cheek	0.070	0.523	0.352	0.509	0.017	0.610	0.439	0.596
		Left Tilt	0.052	0.459	0.251	0.283	0.008	0.519	0.311	0.343
		Right Cheek	0.044	0.326	0.268	0.255	0.011	0.381	0.323	0.310
		Right Tilt	0.026	0.162	0.283	0.248	0.008	0.196	0.317	0.282
NR n2	Ant.0	Left Cheek	0.370	0.523	0.352	0.509	0.017	0.910	0.739	0.896
		Left Tilt	0.118	0.459	0.251	0.283	0.008	0.585	0.377	0.409
		Right Cheek	0.231	0.326	0.268	0.255	0.011	0.568	0.510	0.497
		Right Tilt	0.086	0.162	0.283	0.248	0.008	0.256	0.377	0.342
NR n5	Ant.0	Left Cheek	0.085	0.523	0.352	0.509	0.017	0.625	0.454	0.611
		Left Tilt	0.063	0.459	0.251	0.283	0.008	0.530	0.322	0.354

		Right Cheek	0.077	0.326	0.268	0.255	0.011	0.414	0.356	0.343
		Right Tilt	0.043	0.162	0.283	0.248	0.008	0.213	0.334	0.299
NR n7	Ant.0	Left Cheek	0.025	0.523	0.352	0.509	0.017	0.565	0.394	0.551
		Left Tilt	0.019	0.459	0.251	0.283	0.008	0.486	0.278	0.310
		Right Cheek	0.000	0.326	0.268	0.255	0.011	0.337	0.279	0.266
		Right Tilt	0.000	0.162	0.283	0.248	0.008	0.170	0.291	0.256
NR n25	Ant.0	Left Cheek	0.369	0.523	0.352	0.509	0.017	0.909	0.738	0.895
		Left Tilt	0.159	0.459	0.251	0.283	0.008	0.626	0.418	0.450
		Right Cheek	0.261	0.326	0.268	0.255	0.011	0.598	0.540	0.527
		Right Tilt	0.133	0.162	0.283	0.248	0.008	0.303	0.424	0.389
NR n66	Ant.0	Left Cheek	0.446	0.523	0.352	0.509	0.017	0.986	0.815	0.972
		Left Tilt	0.178	0.459	0.251	0.283	0.008	0.645	0.437	0.469
		Right Cheek	0.192	0.326	0.268	0.255	0.011	0.529	0.471	0.458
		Right Tilt	0.153	0.162	0.283	0.248	0.008	0.323	0.444	0.409
NR n71	Ant.0	Left Cheek	0.002	0.523	0.352	0.509	0.017	0.542	0.371	0.528
		Left Tilt	0.001	0.459	0.251	0.283	0.008	0.468	0.260	0.292
		Right Cheek	0.001	0.326	0.268	0.255	0.011	0.338	0.280	0.267
		Right Tilt	0.001	0.162	0.283	0.248	0.008	0.171	0.292	0.257
NR n38	Ant.1	Left Cheek	0.511	0.523	0.352	0.509	0.017	1.051	0.880	1.037
		Left Tilt	0.361	0.459	0.251	0.283	0.008	0.828	0.620	0.652
		Right Cheek	0.598	0.326	0.268	0.255	0.011	0.935	0.877	0.864
		Right Tilt	0.211	0.162	0.283	0.248	0.008	0.381	0.502	0.467
NR n41	Ant.1	Left Cheek	0.556	0.523	0.352	0.509	0.017	1.096	0.925	1.082
		Left Tilt	0.516	0.459	0.251	0.283	0.008	0.983	0.775	0.807
		Right Cheek	0.763	0.326	0.268	0.255	0.011	1.100	1.042	1.029
		Right Tilt	0.270	0.162	0.283	0.248	0.008	0.440	0.561	0.526
NR n77(3450-3650)	Ant.1	Left Cheek	0.047	0.523	0.352	0.509	0.017	0.587	0.416	0.573
		Left Tilt	0.052	0.459	0.251	0.283	0.008	0.519	0.311	0.343
		Right Cheek	0.000	0.326	0.268	0.255	0.011	0.337	0.279	0.266
		Right Tilt	0.000	0.162	0.283	0.248	0.008	0.170	0.291	0.256
NR n77(3700-3980)	Ant.1	Left Cheek	0.115	0.523	0.352	0.509	0.017	0.655	0.484	0.641
		Left Tilt	0.115	0.459	0.251	0.283	0.008	0.582	0.374	0.406
		Right Cheek	0.000	0.326	0.268	0.255	0.011	0.337	0.279	0.266
		Right Tilt	0.000	0.162	0.283	0.248	0.008	0.170	0.291	0.256
NR n78(3450-3650)	Ant.1	Left Cheek	0.045	0.523	0.352	0.509	0.017	0.585	0.414	0.571
		Left Tilt	0.045	0.459	0.251	0.283	0.008	0.512	0.304	0.336
		Right Cheek	0.000	0.326	0.268	0.255	0.011	0.337	0.279	0.266
		Right Tilt	0.000	0.162	0.283	0.248	0.008	0.170	0.291	0.256
NR n78(3700-3800)	Ant.1	Left Cheek	0.117	0.523	0.352	0.509	0.017	0.657	0.486	0.643
		Left Tilt	0.073	0.459	0.251	0.283	0.008	0.540	0.332	0.364
		Right Cheek	0.000	0.326	0.268	0.255	0.011	0.337	0.279	0.266
		Right Tilt	0.000	0.162	0.283	0.248	0.008	0.170	0.291	0.256

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.1 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

11.2.2 Body-worn SAR of Simultaneous Transmission for WWAN+WLAN+BT

Band	Antenna	Position	Stand alone SAR					SUM		
			1	2	3	4	5			
			WWAN	2.4GWIFI MAX	5G WIFI MAX	6G WIFI MAX	Bluetooth	1+2+5	1+3+5	1+4+5
GSM 850	Ant.0	Front Side	0.567	0.137	0.134	0.203	0.005	0.709	0.706	0.775
		Back Side	0.767	0.160	0.500	0.452	0.001	0.928	1.268	1.220
GSM 1900	Ant.0	Front Side	0.621	0.137	0.134	0.203	0.005	0.763	0.760	0.829
		Back Side	0.709	0.160	0.500	0.452	0.001	0.870	1.210	1.162
WCDMA B2	Ant.0	Front Side	0.562	0.137	0.134	0.203	0.005	0.704	0.701	0.770
		Back Side	0.732	0.160	0.500	0.452	0.001	0.893	1.233	1.185
WCDMA B4	Ant.0	Front Side	0.757	0.137	0.134	0.203	0.005	0.899	0.896	0.965
		Back Side	0.595	0.160	0.500	0.452	0.001	0.756	1.096	1.048
WCDMA B5	Ant.0	Front Side	0.191	0.137	0.134	0.203	0.005	0.333	0.330	0.399
		Back Side	0.294	0.160	0.500	0.452	0.001	0.455	0.795	0.747
LTE B5	Ant.0	Front Side	0.449	0.137	0.134	0.203	0.005	0.591	0.588	0.657
		Back Side	0.519	0.160	0.500	0.452	0.001	0.680	1.020	0.972
LTE B5	Ant.0	Front Side	0.174	0.137	0.134	0.203	0.005	0.316	0.313	0.382
		Back Side	0.220	0.160	0.500	0.452	0.001	0.381	0.721	0.673
LTE B7	Ant.0	Front Side	0.088	0.137	0.134	0.203	0.005	0.230	0.227	0.296
		Back Side	0.444	0.160	0.500	0.452	0.001	0.605	0.945	0.897
LTE B12	Ant.0	Front Side	0.100	0.137	0.134	0.203	0.005	0.242	0.239	0.308
		Back Side	0.211	0.160	0.500	0.452	0.001	0.372	0.712	0.664
LTE B13	Ant.0	Front Side	0.112	0.137	0.134	0.203	0.005	0.254	0.251	0.320
		Back Side	0.151	0.160	0.500	0.452	0.001	0.312	0.652	0.604
LTE B25	Ant.0	Front Side	0.439	0.137	0.134	0.203	0.005	0.581	0.578	0.647
		Back Side	0.592	0.160	0.500	0.452	0.001	0.753	1.093	1.045
LTE B26	Ant.0	Front Side	0.152	0.137	0.134	0.203	0.005	0.294	0.291	0.360
		Back Side	0.219	0.160	0.500	0.452	0.001	0.380	0.720	0.672
LTE B66	Ant.0	Front Side	0.454	0.137	0.134	0.203	0.005	0.596	0.593	0.662
		Back Side	0.541	0.160	0.500	0.452	0.001	0.702	1.042	0.994
LTE B71	Ant.0	Front Side	0.001	0.137	0.134	0.203	0.005	0.143	0.140	0.209
		Back Side	0.028	0.160	0.500	0.452	0.001	0.189	0.529	0.481
LTE B38	Ant.0	Front Side	0.064	0.137	0.134	0.203	0.005	0.206	0.203	0.272
		Back Side	0.353	0.160	0.500	0.452	0.001	0.514	0.854	0.806
LTE B41	Ant.0	Front Side	0.070	0.137	0.134	0.203	0.005	0.212	0.209	0.278

		Back Side	0.403	0.160	0.500	0.452	0.001	0.564	0.904	0.856
LTE B42	Ant.1	Front Side	0.112	0.137	0.134	0.203	0.005	0.254	0.251	0.320
		Back Side	0.514	0.160	0.500	0.452	0.001	0.675	1.015	0.967
LTE B43	Ant.1	Front Side	0.308	0.137	0.134	0.203	0.005	0.450	0.447	0.516
		Back Side	0.773	0.160	0.500	0.452	0.001	0.934	1.274	1.226
NR n2	Ant.0	Front Side	0.459	0.137	0.134	0.203	0.005	0.601	0.598	0.667
		Back Side	0.644	0.160	0.500	0.452	0.001	0.805	1.145	1.097
NR n5	Ant.0	Front Side	0.180	0.137	0.134	0.203	0.005	0.322	0.319	0.388
		Back Side	0.187	0.160	0.500	0.452	0.001	0.348	0.688	0.640
NR n7	Ant.0	Front Side	0.093	0.137	0.134	0.203	0.005	0.235	0.232	0.301
		Back Side	0.684	0.160	0.500	0.452	0.001	0.845	1.185	1.137
NR n25	Ant.0	Front Side	0.433	0.137	0.134	0.203	0.005	0.575	0.572	0.641
		Back Side	0.609	0.160	0.500	0.452	0.001	0.770	1.110	1.062
NR n66	Ant.0	Front Side	0.466	0.137	0.134	0.203	0.005	0.608	0.605	0.674
		Back Side	0.507	0.160	0.500	0.452	0.001	0.668	1.008	0.960
NR n71	Ant.0	Front Side	0.001	0.137	0.134	0.203	0.005	0.143	0.140	0.209
		Back Side	0.016	0.160	0.500	0.452	0.001	0.177	0.517	0.469
NR n38	Ant.1	Front Side	0.609	0.137	0.134	0.203	0.005	0.751	0.748	0.817
		Back Side	0.620	0.160	0.500	0.452	0.001	0.781	1.121	1.073
NR n41	Ant.1	Front Side	0.969	0.137	0.134	0.203	0.005	1.111	1.108	1.177
		Back Side	0.863	0.160	0.500	0.452	0.001	1.024	1.364	1.316
NR n77(3450-3650)	Ant.1	Front Side	0.148	0.137	0.134	0.203	0.005	0.290	0.287	0.356
		Back Side	0.323	0.160	0.500	0.452	0.001	0.484	0.824	0.776
NR n77(3700-3980)	Ant.1	Front Side	0.358	0.137	0.134	0.203	0.005	0.500	0.497	0.566
		Back Side	0.766	0.160	0.500	0.452	0.001	0.927	1.267	1.219
NR n78(3450-3650)	Ant.1	Front Side	0.128	0.137	0.134	0.203	0.005	0.270	0.267	0.336
		Back Side	0.330	0.160	0.500	0.452	0.001	0.491	0.831	0.783
NR n78(3700-3800)	Ant.1	Front Side	0.322	0.137	0.134	0.203	0.005	0.464	0.461	0.530
		Back Side	0.876	0.160	0.500	0.452	0.001	1.037	1.377	1.329

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest sumed 1g SAR is 1.377 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

11.2.3 Hotspot mode SAR of Simultaneous Transmission for WWAN+WLAN+BT

Band	Antenna	Position	Stand alone SAR					SUM		
			1	2	3	4	5	1+2+5	1+3+5	1+4+5
			WWAN	2.4GWIFI MAX	5G WIFI MAX	6G WIFI MAX	Bluetooth			
GSM 850	Ant.0	Front Side	0.567	0.137	0.134	0.203	0.005	0.709	0.706	0.775
		Back Side	0.767	0.160	0.500	0.452	0.001	0.928	1.268	1.220
		Left Side	0.168	0.000	0.000	0.000	0.000	0.168	0.168	0.168
		Right Side	0.401	0.122	0.295	0.631	0.001	0.524	0.697	1.033
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.321	0.000	0.000	0.000	0.000	0.321	0.321	0.321
GSM 1900	Ant.0	Front Side	0.621	0.137	0.134	0.203	0.005	0.763	0.760	0.829
		Back Side	0.709	0.160	0.500	0.452	0.001	0.870	1.210	1.162
		Left Side	0.572	0.000	0.000	0.000	0.000	0.572	0.572	0.572
		Right Side	0.271	0.122	0.295	0.631	0.001	0.394	0.567	0.903
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.393	0.000	0.000	0.000	0.000	0.393	0.393	0.393
WCDMA B2	Ant.0	Front Side	0.562	0.137	0.134	0.203	0.005	0.704	0.701	0.770
		Back Side	0.732	0.160	0.500	0.452	0.001	0.893	1.233	1.185
		Left Side	0.339	0.000	0.000	0.000	0.000	0.339	0.339	0.339
		Right Side	0.164	0.122	0.295	0.631	0.001	0.287	0.460	0.796
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.519	0.000	0.000	0.000	0.000	0.519	0.519	0.519
WCDMA B4	Ant.0	Front Side	0.757	0.137	0.134	0.203	0.005	0.899	0.896	0.965
		Back Side	0.595	0.160	0.500	0.452	0.001	0.756	1.096	1.048
		Left Side	0.582	0.000	0.000	0.000	0.000	0.582	0.582	0.582
		Right Side	0.108	0.122	0.295	0.631	0.001	0.231	0.404	0.740
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.545	0.000	0.000	0.000	0.000	0.545	0.545	0.545
WCDMA B5	Ant.0	Front Side	0.191	0.137	0.134	0.203	0.005	0.333	0.330	0.399
		Back Side	0.294	0.160	0.500	0.452	0.001	0.455	0.795	0.747
		Left Side	0.070	0.000	0.000	0.000	0.000	0.070	0.070	0.070
		Right Side	0.136	0.122	0.295	0.631	0.001	0.259	0.432	0.768
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.119	0.000	0.000	0.000	0.000	0.119	0.119	0.119
LTE B2	Ant.0	Front Side	0.449	0.137	0.134	0.203	0.005	0.591	0.588	0.657
		Back Side	0.519	0.160	0.500	0.452	0.001	0.680	1.020	0.972
		Left Side	0.311	0.000	0.000	0.000	0.000	0.311	0.311	0.311
		Right Side	0.141	0.122	0.295	0.631	0.001	0.264	0.437	0.773
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.424	0.000	0.000	0.000	0.000	0.424	0.424	0.424

LTE B5	Ant.0	Front Side	0.174	0.137	0.134	0.203	0.005	0.316	0.313	0.382
		Back Side	0.220	0.160	0.500	0.452	0.001	0.381	0.721	0.673
		Left Side	0.068	0.000	0.000	0.000	0.000	0.068	0.068	0.068
		Right Side	0.108	0.122	0.295	0.631	0.001	0.231	0.404	0.740
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.103	0.000	0.000	0.000	0.000	0.103	0.103	0.103
LTE B7	Ant.0	Front Side	0.088	0.137	0.134	0.203	0.005	0.230	0.227	0.296
		Back Side	0.444	0.160	0.500	0.452	0.001	0.605	0.945	0.897
		Left Side	0.078	0.000	0.000	0.000	0.000	0.078	0.078	0.078
		Right Side	0.064	0.122	0.295	0.631	0.001	0.187	0.360	0.696
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.232	0.000	0.000	0.000	0.000	0.232	0.232	0.232
LTE B12	Ant.0	Front Side	0.100	0.137	0.134	0.203	0.005	0.242	0.239	0.308
		Back Side	0.211	0.160	0.500	0.452	0.001	0.372	0.712	0.664
		Left Side	0.135	0.000	0.000	0.000	0.000	0.135	0.135	0.135
		Right Side	0.134	0.122	0.295	0.631	0.001	0.257	0.430	0.766
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.074	0.000	0.000	0.000	0.000	0.074	0.074	0.074
LTE B13	Ant.0	Front Side	0.112	0.137	0.134	0.203	0.005	0.254	0.251	0.320
		Back Side	0.151	0.160	0.500	0.452	0.001	0.312	0.652	0.604
		Left Side	0.067	0.000	0.000	0.000	0.000	0.067	0.067	0.067
		Right Side	0.109	0.122	0.295	0.631	0.001	0.232	0.405	0.741
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.079	0.000	0.000	0.000	0.000	0.079	0.079	0.079
LTE B25	Ant.0	Front Side	0.439	0.137	0.134	0.203	0.005	0.581	0.578	0.647
		Back Side	0.592	0.160	0.500	0.452	0.001	0.753	1.093	1.045
		Left Side	0.317	0.000	0.000	0.000	0.000	0.317	0.317	0.317
		Right Side	0.136	0.122	0.295	0.631	0.001	0.259	0.432	0.768
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.417	0.000	0.000	0.000	0.000	0.417	0.417	0.417
LTE B26	Ant.0	Front Side	0.152	0.137	0.134	0.203	0.005	0.294	0.291	0.360
		Back Side	0.219	0.160	0.500	0.452	0.001	0.380	0.720	0.672
		Left Side	0.066	0.000	0.000	0.000	0.000	0.066	0.066	0.066
		Right Side	0.118	0.122	0.295	0.631	0.001	0.241	0.414	0.750
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.107	0.000	0.000	0.000	0.000	0.107	0.107	0.107
LTE B66	Ant.0	Front Side	0.454	0.137	0.134	0.203	0.005	0.596	0.593	0.662
		Back Side	0.541	0.160	0.500	0.452	0.001	0.702	1.042	0.994
		Left Side	0.424	0.000	0.000	0.000	0.000	0.424	0.424	0.424
		Right Side	0.115	0.122	0.295	0.631	0.001	0.238	0.411	0.747
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.393	0.000	0.000	0.000	0.000	0.393	0.393	0.393
LTE B71	Ant.0	Front Side	0.001	0.137	0.134	0.203	0.005	0.143	0.140	0.209

		Back Side	0.028	0.160	0.500	0.452	0.001	0.189	0.529	0.481
		Left Side	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001
		Right Side	0.001	0.122	0.295	0.631	0.001	0.124	0.297	0.633
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001
LTE B38	Ant.0	Front Side	0.064	0.137	0.134	0.203	0.005	0.206	0.203	0.272
		Back Side	0.353	0.160	0.500	0.452	0.001	0.514	0.854	0.806
		Left Side	0.075	0.000	0.000	0.000	0.000	0.075	0.075	0.075
		Right Side	0.023	0.122	0.295	0.631	0.001	0.146	0.319	0.655
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.145	0.000	0.000	0.000	0.000	0.145	0.145	0.145
LTE B41	Ant.0	Front Side	0.070	0.137	0.134	0.203	0.005	0.212	0.209	0.278
		Back Side	0.403	0.160	0.500	0.452	0.001	0.564	0.904	0.856
		Left Side	0.070	0.000	0.000	0.000	0.000	0.070	0.070	0.070
		Right Side	0.043	0.122	0.295	0.631	0.001	0.166	0.339	0.675
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.166	0.000	0.000	0.000	0.000	0.166	0.166	0.166
LTE B42	Ant.1	Front Side	0.112	0.137	0.134	0.203	0.005	0.254	0.251	0.320
		Back Side	0.514	0.160	0.500	0.452	0.001	0.675	1.015	0.967
		Left Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Right Side	0.144	0.122	0.295	0.631	0.001	0.267	0.440	0.776
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.173	0.000	0.000	0.000	0.000	0.173	0.173	0.173
LTE B43	Ant.1	Front Side	0.308	0.137	0.134	0.203	0.005	0.450	0.447	0.516
		Back Side	0.773	0.160	0.500	0.452	0.001	0.934	1.274	1.226
		Left Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Right Side	0.548	0.122	0.295	0.631	0.001	0.671	0.844	1.180
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.395	0.000	0.000	0.000	0.000	0.395	0.395	0.395
NR n2	Ant.0	Front Side	0.459	0.137	0.134	0.203	0.005	0.601	0.598	0.667
		Back Side	0.644	0.160	0.500	0.452	0.001	0.805	1.145	1.097
		Left Side	0.327	0.000	0.000	0.000	0.000	0.327	0.327	0.327
		Right Side	0.169	0.122	0.295	0.631	0.001	0.292	0.465	0.801
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.459	0.000	0.000	0.000	0.000	0.459	0.459	0.459
NR n5	Ant.0	Front Side	0.180	0.137	0.134	0.203	0.005	0.322	0.319	0.388
		Back Side	0.187	0.160	0.500	0.452	0.001	0.348	0.688	0.640
		Left Side	0.075	0.000	0.000	0.000	0.000	0.075	0.075	0.075
		Right Side	0.124	0.122	0.295	0.631	0.001	0.247	0.420	0.756
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.099	0.000	0.000	0.000	0.000	0.099	0.099	0.099
NR n7	Ant.0	Front Side	0.093	0.137	0.134	0.203	0.005	0.235	0.232	0.301
		Back Side	0.684	0.160	0.500	0.452	0.001	0.845	1.185	1.137

		Left Side	0.091	0.000	0.000	0.000	0.000	0.091	0.091	0.091
		Right Side	0.023	0.122	0.295	0.631	0.001	0.146	0.319	0.655
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.250	0.000	0.000	0.000	0.000	0.250	0.250	0.250
NR n25	Ant.0	Front Side	0.433	0.137	0.134	0.203	0.005	0.575	0.572	0.641
		Back Side	0.609	0.160	0.500	0.452	0.001	0.770	1.110	1.062
		Left Side	0.291	0.000	0.000	0.000	0.000	0.291	0.291	0.291
		Right Side	0.124	0.122	0.295	0.631	0.001	0.247	0.420	0.756
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.421	0.000	0.000	0.000	0.000	0.421	0.421	0.421
NR n66	Ant.0	Front Side	0.466	0.137	0.134	0.203	0.005	0.608	0.605	0.674
		Back Side	0.507	0.160	0.500	0.452	0.001	0.668	1.008	0.960
		Left Side	0.397	0.000	0.000	0.000	0.000	0.397	0.397	0.397
		Right Side	0.146	0.122	0.295	0.631	0.001	0.269	0.442	0.778
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.415	0.000	0.000	0.000	0.000	0.415	0.415	0.415
NR n71	Ant.0	Front Side	0.001	0.137	0.134	0.203	0.005	0.143	0.140	0.209
		Back Side	0.016	0.160	0.500	0.452	0.001	0.177	0.517	0.469
		Left Side	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001
		Right Side	0.001	0.122	0.295	0.631	0.001	0.124	0.297	0.633
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001
NR n38	Ant.1	Front Side	0.609	0.137	0.134	0.203	0.005	0.751	0.748	0.817
		Back Side	0.620	0.160	0.500	0.452	0.001	0.781	1.121	1.073
		Left Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Right Side	0.600	0.122	0.295	0.631	0.001	0.723	0.896	1.232
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.361	0.000	0.000	0.000	0.000	0.361	0.361	0.361
NR n41	Ant.1	Front Side	0.969	0.137	0.134	0.203	0.005	1.111	1.108	1.177
		Back Side	0.863	0.160	0.500	0.452	0.001	1.024	1.364	1.316
		Left Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Right Side	0.839	0.122	0.295	0.631	0.001	0.962	1.135	1.471
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.530	0.000	0.000	0.000	0.000	0.530	0.530	0.530
NR n77(3450-3650)	Ant.1	Front Side	0.148	0.137	0.134	0.203	0.005	0.290	0.287	0.356
		Back Side	0.323	0.160	0.500	0.452	0.001	0.484	0.824	0.776
		Left Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Right Side	0.167	0.122	0.295	0.631	0.001	0.290	0.463	0.799
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.179	0.000	0.000	0.000	0.000	0.179	0.179	0.179
NR n77(3700-3980)	Ant.1	Front Side	0.358	0.137	0.134	0.203	0.005	0.500	0.497	0.566
		Back Side	0.766	0.160	0.500	0.452	0.001	0.927	1.267	1.219
		Left Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		Right Side	0.637	0.122	0.295	0.631	0.001	0.760	0.933	1.269
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.390	0.000	0.000	0.000	0.000	0.390	0.390	0.390
NR n78(3450-3650)	Ant.1	Front Side	0.128	0.137	0.134	0.203	0.005	0.270	0.267	0.336
		Back Side	0.330	0.160	0.500	0.452	0.001	0.491	0.831	0.783
		Left Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Right Side	0.173	0.122	0.295	0.631	0.001	0.296	0.469	0.805
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.177	0.000	0.000	0.000	0.000	0.177	0.177	0.177
NR n78(3700-3800)	Ant.1	Front Side	0.322	0.137	0.134	0.203	0.005	0.464	0.461	0.530
		Back Side	0.876	0.160	0.500	0.452	0.001	1.037	1.377	1.329
		Left Side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Right Side	0.627	0.122	0.295	0.631	0.001	0.750	0.923	1.259
		Top Side	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		Bottom Side	0.352	0.000	0.000	0.000	0.000	0.352	0.352	0.352

Note:

1: The simultaneous transmission combinations of the antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Combined 1g SAR is 1.471 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

11.2.4 Head SAR of Simultaneous Transmission for ENDC with WWAN+WLAN+BT

Band	LTE Antenna	4G		ENDC	NR Antenna	SA		ENDC	Position	Stand alone SAR							SUM		
		LTE SAR	LTE Max Power	LTE Max Power		NR SAR	NR Max Power	NR Max Power		LTE SAR	NR SAR	1	2	3	4	5			
												WWAN	2.4G MAX	5G- MAX	6G- MAX	Bluetooth	1+2+5	1+3+5	1+4+5
DC 2A- n77A	Ant 0	0.224	24.50	24.50	Ant 1	0.081	20.50	18.50	Left Cheek	0.014	0.051	0.065	0.523	0.352	0.509	0.017	0.605	0.434	0.591
		0.102	24.50	24.50		0.067	20.50	18.50	Left Tilt	0.011	0.042	0.053	0.459	0.251	0.283	0.008	0.520	0.312	0.344
		0.137	24.50	24.50		0.059	20.50	18.50	Right Cheek	0.013	0.038	0.050	0.326	0.268	0.255	0.011	0.387	0.329	0.316
		0.091	24.50	24.50		0.045	20.50	18.50	Right Tilt	0.010	0.028	0.038	0.162	0.283	0.248	0.008	0.208	0.329	0.294
DC 2A- n78A	Ant 0	0.224	24.50	24.50	Ant 1	0.084	20.50	18.00	Left Cheek	0.014	0.047	0.061	0.523	0.352	0.509	0.017	0.601	0.430	0.587
		0.102	24.50	24.50		0.071	20.50	18.00	Left Tilt	0.011	0.040	0.051	0.459	0.251	0.283	0.008	0.518	0.310	0.342
		0.137	24.50	24.50		0.071	20.50	18.00	Right Cheek	0.013	0.040	0.052	0.326	0.268	0.255	0.011	0.389	0.331	0.318
		0.091	24.50	24.50		0.057	20.50	18.00	Right Tilt	0.010	0.032	0.042	0.162	0.283	0.248	0.008	0.212	0.333	0.298
DC 5A- n41A	Ant 0	0.118	24.50	24.50	Ant 1	0.556	23.50	22.50	Left Cheek	0.245	0.051	0.297	0.523	0.352	0.509	0.017	0.837	0.666	0.823
		0.053	24.50	24.50		0.516	23.50	22.50	Left Tilt	0.150	0.042	0.192	0.459	0.251	0.283	0.008	0.659	0.451	0.483
		0.062	24.50	24.50		0.854	23.50	22.50	Right Cheek	0.177	0.038	0.214	0.326	0.268	0.255	0.011	0.551	0.493	0.480
		0.043	24.50	24.50		0.270	23.50	22.50	Right Tilt	0.124	0.028	0.152	0.162	0.283	0.248	0.008	0.322	0.443	0.408
	Ant 0	0.118	24.50	24.50	Ant 1	0.081	20.50	18.50	Left Cheek	0.245	0.047	0.293	0.523	0.352	0.509	0.017	0.833	0.662	0.819

DC 5A-n77A		0.053	24.50	24.50		0.067	20.50	18.50	Left Tilt	0.150	0.040	0.190	0.459	0.251	0.283	0.008	0.657	0.449	0.481
		0.062	24.50	24.50		0.059	20.50	18.50	Right Cheek	0.177	0.040	0.216	0.326	0.268	0.255	0.011	0.553	0.495	0.482
		0.043	24.50	24.50		0.045	20.50	18.50	Right Tilt	0.124	0.032	0.156	0.162	0.283	0.248	0.008	0.326	0.447	0.412
DC 5A-n78A	Ant 0	0.118	24.50	24.50	Ant 1	0.084	20.50	18.00	Left Cheek	0.007	0.442	0.449	0.523	0.352	0.509	0.017	0.989	0.818	0.975
		0.053	24.50	24.50		0.071	20.50	18.00	Left Tilt	0.005	0.410	0.415	0.459	0.251	0.283	0.008	0.882	0.674	0.706
		0.062	24.50	24.50		0.071	20.50	18.00	Right Cheek	0.006	0.678	0.684	0.326	0.268	0.255	0.011	1.021	0.963	0.950
		0.043	24.50	24.50		0.057	20.50	18.00	Right Tilt	0.002	0.214	0.217	0.162	0.283	0.248	0.008	0.387	0.508	0.473
DC 7A-n77A	Ant 0	0.016	17.50	17.50	Ant 1	0.081	20.50	18.50	Left Cheek	0.007	0.051	0.058	0.523	0.352	0.509	0.017	0.598	0.427	0.584
		0.015	17.50	17.50		0.067	20.50	18.50	Left Tilt	0.005	0.042	0.047	0.459	0.251	0.283	0.008	0.514	0.306	0.338
		0.014	17.50	17.50		0.059	20.50	18.50	Right Cheek	0.006	0.038	0.044	0.326	0.268	0.255	0.011	0.381	0.323	0.310
		0.014	17.50	17.50		0.045	20.50	18.50	Right Tilt	0.002	0.028	0.031	0.162	0.283	0.248	0.008	0.201	0.322	0.287
DC 7A-n78A	Ant 0	0.016	17.50	17.50	Ant 1	0.084	20.50	18.00	Left Cheek	0.007	0.047	0.054	0.523	0.352	0.509	0.017	0.594	0.423	0.580
		0.015	17.50	17.50		0.071	20.50	18.00	Left Tilt	0.005	0.040	0.045	0.459	0.251	0.283	0.008	0.512	0.304	0.336
		0.014	17.50	17.50		0.071	20.50	18.00	Right Cheek	0.006	0.040	0.046	0.326	0.268	0.255	0.011	0.383	0.325	0.312
		0.014	17.50	17.50		0.057	20.50	18.00	Right Tilt	0.002	0.032	0.034	0.162	0.283	0.248	0.008	0.204	0.325	0.290
DC 26A-n41A	Ant 0	0.109	24.50	24.50	Ant 1	0.556	23.50	22.50	Left Cheek	0.014	0.051	0.065	0.523	0.352	0.509	0.017	0.605	0.434	0.591
		0.082	24.50	24.50		0.516	23.50	22.50	Left Tilt	0.011	0.042	0.053	0.459	0.251	0.283	0.008	0.520	0.312	0.344
		0.071	24.50	24.50		0.854	23.50	22.50	Right Cheek	0.013	0.038	0.050	0.326	0.268	0.255	0.011	0.387	0.329	0.316
		0.053	24.50	24.50		0.270	23.50	22.50	Right Tilt	0.010	0.028	0.038	0.162	0.283	0.248	0.008	0.208	0.329	0.294
DC 26A-n78A	Ant 0	0.109	24.00	24.00	Ant 1	0.084	20.50	18.00	Left Cheek	0.014	0.047	0.061	0.523	0.352	0.509	0.017	0.601	0.430	0.587
		0.082	24.00	24.00		0.071	20.50	18.00	Left Tilt	0.011	0.040	0.051	0.459	0.251	0.283	0.008	0.518	0.310	0.342
		0.071	24.00	24.00		0.071	20.50	18.00	Right Cheek	0.013	0.040	0.052	0.326	0.268	0.255	0.011	0.389	0.331	0.318
		0.053	24.00	24.00		0.057	20.50	18.00	Right Tilt	0.010	0.032	0.042	0.162	0.283	0.248	0.008	0.212	0.333	0.298
DC 38A-n78A	Ant 0	0.009	19.00	19.00	Ant 1	0.084	20.50	18.00	Left Cheek	0.245	0.051	0.297	0.523	0.352	0.509	0.017	0.837	0.666	0.823
		0.007	19.00	19.00		0.071	20.50	18.00	Left Tilt	0.150	0.042	0.192	0.459	0.251	0.283	0.008	0.659	0.451	0.483
		0.007	19.00	19.00		0.071	20.50	18.00	Right Cheek	0.177	0.038	0.214	0.326	0.268	0.255	0.011	0.551	0.493	0.480
		0.006	19.00	19.00		0.057	20.50	18.00	Right Tilt	0.124	0.028	0.152	0.162	0.283	0.248	0.008	0.322	0.443	0.408
DC 41A-n77A	Ant 0	0.014	19.50	19.50	Ant 1	0.081	20.50	18.50	Left Cheek	0.245	0.047	0.293	0.523	0.352	0.509	0.017	0.833	0.662	0.819
		0.011	19.50	19.50		0.067	20.50	18.50	Left Tilt	0.150	0.040	0.190	0.459	0.251	0.283	0.008	0.657	0.449	0.481
		0.013	19.50	19.50		0.059	20.50	18.50	Right Cheek	0.177	0.040	0.216	0.326	0.268	0.255	0.011	0.553	0.495	0.482
		0.010	19.50	19.50		0.045	20.50	18.50	Right Tilt	0.124	0.032	0.156	0.162	0.283	0.248	0.008	0.326	0.447	0.412
DC 41A-n78A	Ant 0	0.014	19.50	19.50	Ant 1	0.084	20.50	18.00	Left Cheek	0.007	0.442	0.449	0.523	0.352	0.509	0.017	0.989	0.818	0.975
		0.011	19.50	19.50		0.071	20.50	18.00	Left Tilt	0.005	0.410	0.415	0.459	0.251	0.283	0.008	0.882	0.674	0.706
		0.013	19.50	19.50		0.071	20.50	18.00	Right Cheek	0.006	0.678	0.684	0.326	0.268	0.255	0.011	1.021	0.963	0.950
		0.010	19.50	19.50		0.057	20.50	18.00	Right Tilt	0.002	0.214	0.217	0.162	0.283	0.248	0.008	0.387	0.508	0.473
DC 66A-n77A	Ant 0	0.245	24.00	24.00	Ant 1	0.081	20.50	18.50	Left Cheek	0.007	0.051	0.058	0.523	0.352	0.509	0.017	0.598	0.427	0.584
		0.150	24.00	24.00		0.067	20.50	18.50	Left Tilt	0.005	0.042	0.047	0.459	0.251	0.283	0.008	0.514	0.306	0.338
		0.177	24.00	24.00		0.059	20.50	18.50	Right Cheek	0.006	0.038	0.044	0.326	0.268	0.255	0.011	0.381	0.323	0.310
		0.124	24.00	24.00		0.045	20.50	18.50	Right Tilt	0.002	0.028	0.031	0.162	0.283	0.248	0.008	0.201	0.322	0.287
DC 66A-n78A	Ant 0	0.245	24.00	24.00	Ant 1	0.084	20.50	18.00	Left Cheek	0.007	0.047	0.054	0.523	0.352	0.509	0.017	0.594	0.423	0.580
		0.150	24.00	24.00		0.071	20.50	18.00	Left Tilt	0.005	0.040	0.045	0.459	0.251	0.283	0.008	0.512	0.304	0.336
		0.177	24.00	24.00		0.071	20.50	18.00	Right Cheek	0.006	0.040	0.046	0.326	0.268	0.255	0.011	0.383	0.325	0.312
		0.124	24.00	24.00		0.057	20.50	18.00	Right Tilt	0.002	0.032	0.034	0.162	0.283	0.248	0.008	0.204	0.325	0.290

DC 71A- n41A	Ant 0	0.007	24.00	24.00	Ant 1	0.556	23.50	22.50	Left Cheek	0.014	0.051	0.065	0.523	0.352	0.509	0.017	0.605	0.434	0.591
		0.005	24.00	24.00		0.516	23.50	22.50	Left Tilt	0.011	0.042	0.053	0.459	0.251	0.283	0.008	0.520	0.312	0.344
		0.006	24.00	24.00		0.854	23.50	22.50	Right Cheek	0.013	0.038	0.050	0.326	0.268	0.255	0.011	0.387	0.329	0.316
		0.002	24.00	24.00		0.270	23.50	22.50	Right Tilt	0.010	0.028	0.038	0.162	0.283	0.248	0.008	0.208	0.329	0.294
DC 71A- n77A	Ant 0	0.007	24.00	24.00	Ant 1	0.081	20.50	18.50	Left Cheek	0.014	0.047	0.061	0.523	0.352	0.509	0.017	0.601	0.430	0.587
		0.005	24.00	24.00		0.067	20.50	18.50	Left Tilt	0.011	0.040	0.051	0.459	0.251	0.283	0.008	0.518	0.310	0.342
		0.006	24.00	24.00		0.059	20.50	18.50	Right Cheek	0.013	0.040	0.052	0.326	0.268	0.255	0.011	0.389	0.331	0.318
		0.002	24.00	24.00		0.045	20.50	18.50	Right Tilt	0.010	0.032	0.042	0.162	0.283	0.248	0.008	0.212	0.333	0.298
DC 71A- n78A	Ant 0	0.007	24.00	24.00	Ant 1	0.084	20.50	18.00	Left Cheek	0.245	0.051	0.297	0.523	0.352	0.509	0.017	0.837	0.666	0.823
		0.005	24.00	24.00		0.071	20.50	18.00	Left Tilt	0.150	0.042	0.192	0.459	0.251	0.283	0.008	0.659	0.451	0.483
		0.006	24.00	24.00		0.071	20.50	18.00	Right Cheek	0.177	0.038	0.214	0.326	0.268	0.255	0.011	0.551	0.493	0.480
		0.002	24.00	24.00		0.057	20.50	18.00	Right Tilt	0.124	0.028	0.152	0.162	0.283	0.248	0.008	0.322	0.443	0.408

Note:

1: The simultaneous transmission combinations of the multiple antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.1 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

11.2.5 Body-worn SAR of Simultaneous Transmission for ENDC with WWAN+WLAN+BT

Band	LTE Antenna	4G		ENDC	NR Antenna	SA		ENDC	Position	Stand alone SAR							SUM		
		LTE SAR	LTE Max Power	LTE Max Power		NR SAR	NR Max Power	NR Max Power		LTE SAR	NR SAR	1	2	3	4	5			
												WWAN	2.4G MAX	5G- MAX	6G- MAX	Bluetooth	1+2+5	1+3+5	1+4+5
DC 2A-n77A	Ant 0	0.449	24.50	24.50	Ant 1	0.358	20.50	18.50	Front Side	0.449	0.226	0.674	0.137	0.134	0.203	0.005	0.816	0.813	0.882
		0.519	24.50	24.50		0.766	20.50	18.50	Back Side	0.519	0.483	1.002	0.160	0.500	0.452	0.001	1.163	1.503	1.455
DC 2A-n78A	Ant 0	0.449	24.50	24.50	Ant 1	0.322	20.50	18.00	Front Side	0.449	0.181	0.630	0.137	0.134	0.203	0.005	0.772	0.769	0.838
		0.519	24.50	24.50		0.876	20.50	18.00	Back Side	0.519	0.493	1.012	0.160	0.500	0.452	0.001	1.173	1.513	1.465
DC 5A-n41A	Ant 0	0.174	24.50	24.50	Ant 1	0.969	23.50	22.50	Front Side	0.174	0.770	0.944	0.137	0.134	0.203	0.005	1.086	1.083	1.152
		0.220	24.50	24.50		0.863	23.50	22.50	Back Side	0.220	0.685	0.906	0.160	0.500	0.452	0.001	1.067	1.407	1.359
DC 5A-n77A	Ant 0	0.174	24.50	24.50	Ant 1	0.358	20.50	18.50	Front Side	0.174	0.226	0.400	0.137	0.134	0.203	0.005	0.542	0.539	0.608
		0.220	24.50	24.50		0.766	20.50	18.50	Back Side	0.220	0.483	0.703	0.160	0.500	0.452	0.001	0.864	1.204	1.156
DC 5A-n78A	Ant 0	0.174	24.50	24.50	Ant 1	0.322	20.50	18.00	Front Side	0.174	0.181	0.355	0.137	0.134	0.203	0.005	0.497	0.494	0.563
		0.220	24.50	24.50		0.876	20.50	18.00	Back Side	0.220	0.493	0.713	0.160	0.500	0.452	0.001	0.874	1.214	1.166
DC 7A-n77A	Ant 0	0.088	17.50	17.50	Ant 1	0.358	20.50	18.50	Front Side	0.088	0.226	0.314	0.137	0.134	0.203	0.005	0.456	0.453	0.522
		0.444	17.50	17.50		0.766	20.50	18.50	Back Side	0.444	0.483	0.927	0.160	0.500	0.452	0.001	1.088	1.428	1.380
DC 7A-n78A	Ant 0	0.088	17.50	17.50	Ant 1	0.322	20.50	18.00	Front Side	0.088	0.181	0.269	0.137	0.134	0.203	0.005	0.411	0.408	0.477
		0.444	17.50	17.50		0.876	20.50	18.00	Back Side	0.444	0.493	0.937	0.160	0.500	0.452	0.001	1.098	1.438	1.390
DC 26A-n41A	Ant 0	0.152	24.00	24.00	Ant 1	0.969	23.50	22.50	Front Side	0.152	0.770	0.922	0.137	0.134	0.203	0.005	1.064	1.061	1.130
		0.219	24.00	24.00		0.863	23.50	22.50	Back Side	0.219	0.685	0.905	0.160	0.500	0.452	0.001	1.066	1.406	1.358
DC 26A-n78A	Ant 0	0.152	24.00	24.00	Ant 1	0.322	20.50	18.00	Front Side	0.152	0.181	0.334	0.137	0.134	0.203	0.005	0.476	0.473	0.542
		0.219	24.00	24.00		0.876	20.50	18.00	Back Side	0.219	0.493	0.712	0.160	0.500	0.452	0.001	0.873	1.213	1.165
DC 38A-n78A	Ant 0	0.064	19.00	19.00	Ant 1	0.322	20.50	18.00	Front Side	0.064	0.181	0.245	0.137	0.134	0.203	0.005	0.387	0.384	0.453
		0.353	19.00	19.00		0.876	20.50	18.00	Back Side	0.353	0.493	0.846	0.160	0.500	0.452	0.001	1.007	1.347	1.299

DC 41A-n77A	Ant 0	0.070	19.50	19.50	Ant 1	0.358	20.50	18.50	Front Side	0.070	0.226	0.295	0.137	0.134	0.203	0.005	0.437	0.434	0.503
		0.403	19.50	19.50		0.766	20.50	18.50	Back Side	0.403	0.483	0.886	0.160	0.500	0.452	0.001	1.047	1.387	1.339
DC 41A-n78A	Ant 0	0.070	19.50	19.50	Ant 1	0.322	20.50	18.00	Front Side	0.070	0.181	0.251	0.137	0.134	0.203	0.005	0.393	0.390	0.459
		0.403	19.50	19.50		0.876	20.50	18.00	Back Side	0.403	0.493	0.896	0.160	0.500	0.452	0.001	1.057	1.397	1.349
DC 66A-n77A	Ant 0	0.454	24.00	24.00	Ant 1	0.358	20.50	18.50	Front Side	0.454	0.226	0.680	0.137	0.134	0.203	0.005	0.822	0.819	0.888
		0.541	24.00	24.00		0.766	20.50	18.50	Back Side	0.541	0.483	1.024	0.160	0.500	0.452	0.001	1.185	1.525	1.477
DC 66A-n78A	Ant 0	0.454	24.00	24.00	Ant 1	0.322	20.50	18.00	Front Side	0.454	0.181	0.636	0.137	0.134	0.203	0.005	0.778	0.775	0.844
		0.541	24.00	24.00		0.876	20.50	18.00	Back Side	0.541	0.493	1.034	0.160	0.500	0.452	0.001	1.195	1.535	1.487
DC 71A-n41A	Ant 0	0.001	24.00	24.00	Ant 1	0.969	23.50	22.50	Front Side	0.001	0.770	0.771	0.137	0.134	0.203	0.005	0.913	0.910	0.979
		0.028	24.00	24.00		0.863	23.50	22.50	Back Side	0.028	0.685	0.713	0.160	0.500	0.452	0.001	0.874	1.214	1.166
DC 71A-n77A	Ant 0	0.001	24.00	24.00	Ant 1	0.358	20.50	18.50	Front Side	0.001	0.226	0.227	0.137	0.134	0.203	0.005	0.369	0.366	0.435
		0.028	24.00	24.00		0.766	20.50	18.50	Back Side	0.028	0.483	0.511	0.160	0.500	0.452	0.001	0.672	1.012	0.964
DC 71A-n78A	Ant 0	0.001	24.00	24.00	Ant 1	0.322	20.50	18.00	Front Side	0.001	0.181	0.182	0.137	0.134	0.203	0.005	0.324	0.321	0.390
		0.028	24.00	24.00		0.876	20.50	18.00	Back Side	0.028	0.493	0.521	0.160	0.500	0.452	0.001	0.682	1.022	0.974

Note:

1: The simultaneous transmission combinations of the multiple antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.535 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

11.2.6 Hotspot mode SAR of Simultaneous Transmission ENDC with WWAN+WLAN+BT

Band	LTE Antenna	4G		ENDC	NR Antenna	SA		ENDC	Position	Stand alone SAR							SUM		
		LTE SAR	LTE Max Power	LTE Max Power		NR SAR	NR Max Power	NR Max Power		LTE SAR	NR SAR	1	2	3	4	5			
												WWAN	2.4G MAX	5G- MAX	6G- MAX	Bluetooth	1+2+5	1+3+5	1+4+5
DC 2A- n77A	Ant 0	0.449	24.50	24.50	Ant 1	0.358	20.50	18.50	Front Side	0.449	0.226	0.674	0.137	0.134	0.203	0.005	0.816	0.813	0.882
		0.519	24.50	24.50		0.766	20.50	18.50	Back Side	0.519	0.483	1.002	0.160	0.500	0.452	0.001	1.163	1.503	1.455
		0.311	24.50	24.50		0.000	20.50	18.50	Left Side	0.311	0.000	0.311	0.000	0.000	0.000	0.000	0.311	0.311	0.311
		0.141	24.50	24.50		0.637	20.50	18.50	Right Side	0.141	0.402	0.543	0.122	0.295	0.631	0.001	0.666	0.839	1.175
		0.000	24.50	24.50		0.000	20.50	18.50	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.424	24.50	24.50		0.390	20.50	18.50	Bottom Side	0.424	0.246	0.670	0.000	0.000	0.000	0.000	0.670	0.670	0.670
DC 2A- n78A	Ant 0	0.449	24.50	24.50	Ant 1	0.322	20.50	18.00	Front Side	0.449	0.181	0.630	0.137	0.134	0.203	0.005	0.772	0.769	0.838
		0.519	24.50	24.50		0.876	20.50	18.00	Back Side	0.519	0.493	1.012	0.160	0.500	0.452	0.001	1.173	1.513	1.465
		0.311	24.50	24.50		0.000	20.50	18.00	Left Side	0.311	0.000	0.311	0.000	0.000	0.000	0.000	0.311	0.311	0.311
		0.141	24.50	24.50		0.627	20.50	18.00	Right Side	0.141	0.353	0.494	0.122	0.295	0.631	0.001	0.617	0.790	1.126
		0.000	24.50	24.50		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.424	24.50	24.50		0.352	20.50	18.00	Bottom Side	0.424	0.198	0.622	0.000	0.000	0.000	0.000	0.622	0.622	0.622
DC 5A- n41A	Ant 0	0.174	24.50	24.50	Ant 1	0.969	20.50	18.00	Front Side	0.174	0.545	0.719	0.137	0.134	0.203	0.005	0.861	0.858	0.927
		0.220	24.50	24.50		0.863	20.50	18.00	Back Side	0.220	0.485	0.705	0.160	0.500	0.452	0.001	0.866	1.206	1.158
		0.068	24.50	24.50		0.000	20.50	18.00	Left Side	0.068	0.000	0.068	0.000	0.000	0.000	0.000	0.068	0.068	0.068
		0.108	24.50	24.50		0.839	20.50	18.00	Right Side	0.108	0.472	0.580	0.122	0.295	0.631	0.001	0.703	0.876	1.212
		0.000	24.50	24.50		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.103	24.50	24.50		0.530	20.50	18.00	Bottom Side	0.103	0.298	0.401	0.000	0.000	0.000	0.000	0.401	0.401	0.401

DC 5A- n77A	Ant 0	0.174	24.50	24.50	Ant 1	0.358	20.50	18.50	Front Side	0.174	0.226	0.400	0.137	0.134	0.203	0.005	0.542	0.539	0.608
		0.220	24.50	24.50		0.766	20.50	18.50	Back Side	0.220	0.483	0.703	0.160	0.500	0.452	0.001	0.864	1.204	1.156
		0.068	24.50	24.50		0.000	20.50	18.50	Left Side	0.068	0.000	0.068	0.000	0.000	0.000	0.000	0.068	0.068	0.068
		0.108	24.50	24.50		0.637	20.50	18.50	Right Side	0.108	0.402	0.510	0.122	0.295	0.631	0.001	0.633	0.806	1.142
		0.000	24.50	24.50		0.000	20.50	18.50	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.103	24.50	24.50		0.390	20.50	18.50	Bottom Side	0.103	0.246	0.349	0.000	0.000	0.000	0.000	0.349	0.349	0.349
DC 5A- n78A	Ant 0	0.174	24.50	24.50	Ant 1	0.322	20.50	18.00	Front Side	0.174	0.181	0.355	0.137	0.134	0.203	0.005	0.497	0.494	0.563
		0.220	24.50	24.50		0.876	20.50	18.00	Back Side	0.220	0.493	0.713	0.160	0.500	0.452	0.001	0.874	1.214	1.166
		0.068	24.50	24.50		0.000	20.50	18.00	Left Side	0.068	0.000	0.068	0.000	0.000	0.000	0.000	0.068	0.068	0.068
		0.108	24.50	24.50		0.627	20.50	18.00	Right Side	0.108	0.353	0.461	0.122	0.295	0.631	0.001	0.584	0.757	1.093
		0.000	24.50	24.50		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.103	24.50	24.50		0.352	20.50	18.00	Bottom Side	0.103	0.198	0.301	0.000	0.000	0.000	0.000	0.301	0.301	0.301
DC 7A- n77A	Ant 0	0.088	17.50	17.50	Ant 1	0.358	20.50	18.50	Front Side	0.088	0.226	0.314	0.137	0.134	0.203	0.005	0.456	0.453	0.522
		0.444	17.50	17.50		0.766	20.50	18.50	Back Side	0.444	0.483	0.927	0.160	0.500	0.452	0.001	1.088	1.428	1.380
		0.079	17.50	17.50		0.000	20.50	18.50	Left Side	0.079	0.000	0.079	0.000	0.000	0.000	0.000	0.079	0.079	0.079
		0.065	17.50	17.50		0.637	20.50	18.50	Right Side	0.065	0.402	0.467	0.122	0.295	0.631	0.001	0.590	0.763	1.099
		0.000	17.50	17.50		0.000	20.50	18.50	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.232	17.50	17.50		0.390	20.50	18.50	Bottom Side	0.232	0.246	0.479	0.000	0.000	0.000	0.000	0.479	0.479	0.479
DC 7A- n78A	Ant 0	0.088	17.50	17.50	Ant 1	0.322	20.50	18.00	Front Side	0.088	0.181	0.269	0.137	0.134	0.203	0.005	0.411	0.408	0.477
		0.444	17.50	17.50		0.876	20.50	18.00	Back Side	0.444	0.493	0.937	0.160	0.500	0.452	0.001	1.098	1.438	1.390
		0.079	17.50	17.50		0.000	20.50	18.00	Left Side	0.079	0.000	0.079	0.000	0.000	0.000	0.000	0.079	0.079	0.079
		0.065	17.50	17.50		0.627	20.50	18.00	Right Side	0.065	0.353	0.417	0.122	0.295	0.631	0.001	0.540	0.713	1.049
		0.000	17.50	17.50		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.232	17.50	17.50		0.352	20.50	18.00	Bottom Side	0.232	0.198	0.430	0.000	0.000	0.000	0.000	0.430	0.430	0.430
DC 26A- n41A	Ant 0	0.152	24.00	24.00	Ant 1	0.969	20.50	18.00	Front Side	0.152	0.545	0.698	0.137	0.134	0.203	0.005	0.840	0.837	0.906
		0.219	24.00	24.00		0.863	20.50	18.00	Back Side	0.219	0.485	0.704	0.160	0.500	0.452	0.001	0.865	1.205	1.157
		0.066	24.00	24.00		0.000	20.50	18.00	Left Side	0.066	0.000	0.066	0.000	0.000	0.000	0.000	0.066	0.066	0.066
		0.118	24.00	24.00		0.839	20.50	18.00	Right Side	0.118	0.472	0.590	0.122	0.295	0.631	0.001	0.713	0.886	1.222
		0.000	24.00	24.00		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.107	24.00	24.00		0.530	20.50	18.00	Bottom Side	0.107	0.298	0.405	0.000	0.000	0.000	0.000	0.405	0.405	0.405
DC 26A- n78A	Ant 0	0.152	24.00	24.00	Ant 1	0.322	20.50	18.00	Front Side	0.152	0.181	0.334	0.137	0.134	0.203	0.005	0.476	0.473	0.542
		0.219	24.00	24.00		0.876	20.50	18.00	Back Side	0.219	0.493	0.712	0.160	0.500	0.452	0.001	0.873	1.213	1.165
		0.066	24.00	24.00		0.000	20.50	18.00	Left Side	0.066	0.000	0.066	0.000	0.000	0.000	0.000	0.066	0.066	0.066
		0.118	24.00	24.00		0.627	20.50	18.00	Right Side	0.118	0.353	0.470	0.122	0.295	0.631	0.001	0.593	0.766	1.102
		0.000	24.00	24.00		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.107	24.00	24.00		0.352	20.50	18.00	Bottom Side	0.107	0.198	0.305	0.000	0.000	0.000	0.000	0.305	0.305	0.305
DC 38A- n78A	Ant 0	0.064	19.00	19.00	Ant 1	0.322	20.50	18.00	Front Side	0.064	0.181	0.245	0.137	0.134	0.203	0.005	0.387	0.384	0.453
		0.353	19.00	19.00		0.876	20.50	18.00	Back Side	0.353	0.493	0.846	0.160	0.500	0.452	0.001	1.007	1.347	1.299
		0.077	19.00	19.00		0.000	20.50	18.00	Left Side	0.077	0.000	0.077	0.000	0.000	0.000	0.000	0.077	0.077	0.077
		0.024	19.00	19.00		0.627	20.50	18.00	Right Side	0.024	0.353	0.376	0.122	0.295	0.631	0.001	0.499	0.672	1.008
		0.000	19.00	19.00		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.145	19.00	19.00		0.352	20.50	18.00	Bottom Side	0.145	0.198	0.343	0.000	0.000	0.000	0.000	0.343	0.343	0.343
	Ant 0	0.070	19.50	19.50	Ant 1	0.358	20.50	18.50	Front Side	0.070	0.226	0.295	0.137	0.134	0.203	0.005	0.437	0.434	0.503

DC 41A- n77A		0.403	19.50	19.50		0.766	20.50	18.50	Back Side	0.403	0.483	0.886	0.160	0.500	0.452	0.001	1.047	1.387	1.339
		0.070	19.50	19.50		0.000	20.50	18.50	Left Side	0.070	0.000	0.070	0.000	0.000	0.000	0.000	0.070	0.070	0.070
		0.043	19.50	19.50		0.637	20.50	18.50	Right Side	0.043	0.402	0.445	0.122	0.295	0.631	0.001	0.568	0.741	1.077
		0.000	19.50	19.50		0.000	20.50	18.50	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.166	19.50	19.50		0.390	20.50	18.50	Bottom Side	0.166	0.246	0.412	0.000	0.000	0.000	0.000	0.412	0.412	0.412
DC 41A- n78A	Ant 0	0.070	19.50	19.50	Ant 1	0.322	20.50	18.00	Front Side	0.070	0.181	0.251	0.137	0.134	0.203	0.005	0.393	0.390	0.459
		0.403	19.50	19.50		0.876	20.50	18.00	Back Side	0.403	0.493	0.896	0.160	0.500	0.452	0.001	1.057	1.397	1.349
		0.070	19.50	19.50		0.000	20.50	18.00	Left Side	0.070	0.000	0.070	0.000	0.000	0.000	0.000	0.070	0.070	0.070
		0.043	19.50	19.50		0.627	20.50	18.00	Right Side	0.043	0.353	0.396	0.122	0.295	0.631	0.001	0.519	0.692	1.028
		0.000	19.50	19.50		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.166	19.50	19.50		0.352	20.50	18.00	Bottom Side	0.166	0.198	0.364	0.000	0.000	0.000	0.000	0.364	0.364	0.364
DC 66A- n77A	Ant 0	0.454	24.00	24.00	Ant 1	0.358	20.50	18.50	Front Side	0.454	0.226	0.680	0.137	0.134	0.203	0.005	0.822	0.819	0.888
		0.541	24.00	24.00		0.766	20.50	18.50	Back Side	0.541	0.483	1.024	0.160	0.500	0.452	0.001	1.185	1.525	1.477
		0.424	24.00	24.00		0.000	20.50	18.50	Left Side	0.424	0.000	0.424	0.000	0.000	0.000	0.000	0.424	0.424	0.424
		0.115	24.00	24.00		0.637	20.50	18.50	Right Side	0.115	0.402	0.517	0.122	0.295	0.631	0.001	0.640	0.813	1.149
		0.000	24.00	24.00		0.000	20.50	18.50	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.393	24.00	24.00		0.390	20.50	18.50	Bottom Side	0.393	0.246	0.639	0.000	0.000	0.000	0.000	0.639	0.639	0.639
DC 66A- n78A	Ant 0	0.454	24.00	24.00	Ant 1	0.322	20.50	18.00	Front Side	0.454	0.181	0.636	0.137	0.134	0.203	0.005	0.778	0.775	0.844
		0.541	24.00	24.00		0.876	20.50	18.00	Back Side	0.541	0.493	1.034	0.160	0.500	0.452	0.001	1.195	1.535	1.487
		0.424	24.00	24.00		0.000	20.50	18.00	Left Side	0.424	0.000	0.424	0.000	0.000	0.000	0.000	0.424	0.424	0.424
		0.115	24.00	24.00		0.627	20.50	18.00	Right Side	0.115	0.353	0.468	0.122	0.295	0.631	0.001	0.591	0.764	1.100
		0.000	24.00	24.00		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.393	24.00	24.00		0.352	20.50	18.00	Bottom Side	0.393	0.198	0.591	0.000	0.000	0.000	0.000	0.591	0.591	0.591
DC 71A- n41A	Ant 0	0.001	24.00	24.00	Ant 1	0.969	20.50	18.00	Front Side	0.001	0.545	0.546	0.137	0.134	0.203	0.005	0.688	0.685	0.754
		0.028	24.00	24.00		0.863	20.50	18.00	Back Side	0.028	0.485	0.513	0.160	0.500	0.452	0.001	0.674	1.014	0.966
		0.001	24.00	24.00		0.000	20.50	18.00	Left Side	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001
		0.001	24.00	24.00		0.839	20.50	18.00	Right Side	0.001	0.472	0.473	0.122	0.295	0.631	0.001	0.596	0.769	1.105
		0.000	24.00	24.00		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.001	24.00	24.00		0.530	20.50	18.00	Bottom Side	0.001	0.298	0.299	0.000	0.000	0.000	0.000	0.299	0.299	0.299
DC 71A- n77A	Ant 0	0.001	24.00	24.00	Ant 1	0.358	20.50	18.50	Front Side	0.001	0.226	0.227	0.137	0.134	0.203	0.005	0.369	0.366	0.435
		0.028	24.00	24.00		0.766	20.50	18.50	Back Side	0.028	0.483	0.511	0.160	0.500	0.452	0.001	0.672	1.012	0.964
		0.001	24.00	24.00		0.000	20.50	18.50	Left Side	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001
		0.001	24.00	24.00		0.637	20.50	18.50	Right Side	0.001	0.402	0.403	0.122	0.295	0.631	0.001	0.526	0.699	1.035
		0.000	24.00	24.00		0.000	20.50	18.50	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.001	24.00	24.00		0.390	20.50	18.50	Bottom Side	0.001	0.246	0.247	0.000	0.000	0.000	0.000	0.247	0.247	0.247
DC 71A- n78A	Ant 0	0.001	24.00	24.00	Ant 1	0.322	20.50	18.00	Front Side	0.001	0.181	0.182	0.137	0.134	0.203	0.005	0.324	0.321	0.390
		0.028	24.00	24.00		0.876	20.50	18.00	Back Side	0.028	0.493	0.521	0.160	0.500	0.452	0.001	0.682	1.022	0.974
		0.001	24.00	24.00		0.000	20.50	18.00	Left Side	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.001
		0.001	24.00	24.00		0.627	20.50	18.00	Right Side	0.001	0.353	0.354	0.122	0.295	0.631	0.001	0.477	0.650	0.986
		0.000	24.00	24.00		0.000	20.50	18.00	Top Side	0.000	0.000	0.000	0.069	0.177	0.196	0.001	0.070	0.178	0.197
		0.001	24.00	24.00		0.352	20.50	18.00	Bottom Side	0.001	0.198	0.199	0.000	0.000	0.000	0.000	0.199	0.199	0.199

Note:

1: The simultaneous transmission combinations of the multiple antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.535 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

11.2.7 Highest Total Exposure Ratio of Simultaneous Transmission

NFC multi-transmit requires the use of the TER formula:

$$TER = \sum_{k=1}^{N_s} \left(\frac{SAR_k}{SAR_{lim}} \right) + \sum_{k=1}^{N_f} \left(\frac{MPE_{field, k}}{MPE_{field, lim}} \right)^2 + \sum_{k=1}^{N_{PD}} \left(\frac{MPE_{PD, k}}{MPE_{PD, lim}} \right)$$

The maximum SAR value for Simultaneous Transmission is 1.535 [W/kg]. Therefore, the worst TER = (1.535+0.001)/1.6 = 0.96 < 1, the NFC SAR transmit simultaneously Pass.

12 TEST EQUIPMENTS LIST

This is Shanghai Tejet Communications Technology Co., Ltd. Testing Center's test equipment list

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.10.4.15.35	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	1201	2024/09/03	2027/09/03
835MHz Validation Dipole	Speag	D835V2	4d277	2024/08/30	2027/08/30
1750MHz Validation Dipole	Speag	D1750V2	1183	2024/09/03	2027/09/03
1900MHz Validation Dipole	Speag	D1900V2	5d155	2024/09/02	2027/09/02
2450MHz Validation Dipole	Speag	D2450V2	1065	2024/09/05	2027/09/05
2600MHz Validation Dipole	Speag	D2600V2	1184	2024/08/30	2027/08/30
3500MHz Validation Dipole	Speag	D3500V2	1115	2024/09/03	2027/09/03
3700MHz Validation Dipole	Speag	D3700V2	1086	2024/09/05	2027/09/05
5GHz Validation Dipole	Speag	D5GHzV2	1333	2024/09/04	2027/09/04
Data Acquisition Electronics	Speag	DAE4	SN: 1423	2025/06/05	2026/06/04
E-Field Probe	Speag	EX3DV4	SN: 3974	2025/06/05	2026/06/04
Signal Generator	R&S	SMB100A	182635	2025/02/12	2026/02/12
Power Meter	Agilent	E4419B	MY45104512	2025/02/11	2026/02/11
Power Sensor	Agilent	E9304A	MY41499059	2025/02/11	2026/02/11
Power Sensor	Agilent	E9304A	MY41499060	2025/02/11	2026/02/11
Wireless Communication Test Set	R&S	CMW500	168792	2025/02/11	2026/02/11
Network Analyzer	Agilent	E5071C	MY56301409	2025/02/12	2026/02/12
Thermometer	CEM	DT-322	220718792	2025/01/22	2026/01/22
Thermometer	Elitech	RC-4HC	EF7247001260	2025/01/22	2026/01/22
Power Amplifier	COM-MW	PAO.4	201704001	N/A	N/A
Dielectric Probe Kit	Keysight	85070E	MY44300524	N/A	N/A
Phantom	Speag	SAM	SN: 1473	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, Tejet has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

This is Shenzhen BALUN Technology Co., Ltd. test equipment list

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY8	16.2.2.1588	N/A	N/A
6.5GHz Validation Dipole	Speag	D6.5GHzV2	SN: 1037	2024/05/28	2027/05/27
Data Acquisition Electronics	Speag	DAE4	SN: 1710	2025/01/20	2026/01/19
E-Field Probe	Speag	EX3DV4	SN: 7607	2024/08/06	2025/08/05
Signal Generator	Keysight	N5173B	MY62150163	2025/07/15	2026/07/14
Power Meter	R&S	NRVD-B2	835843/014	2025/07/15	2026/07/14
Power Sensor	R&S	NRV-Z4	100381	2025/07/15	2026/07/14
Power Sensor	R&S	NRV-Z2	100211	2025/07/15	2026/07/14
Network Analyzer	Agilent	E5071C	MY46103472	2025/08/13	2026/08/12
Thermometer	Elitech	RC-4HC	EF7239002655	2024/10/31	2025/10/30
Thermometer	Elitech	RC-4HC	EF7216002974	2024/10/31	2025/10/30
Power Amplifier	Mini-Circuits	ZVA-183W-S+	932502132	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	SAM	SN: 1859	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an 85070E Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity (σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2025.10.9	Head	750	21.4	0.87	42.78	0.89	41.94	-2.25	2.00
2025.10.10	Head	750	21.3	0.88	42.83	0.89	41.94	-1.12	2.12
2025.10.11	Head	835	21.1	0.90	42.32	0.90	41.50	0.00	1.98
2025.10.10	Head	835	20.9	0.91	42.37	0.90	41.50	1.11	2.10
2025.10.12	Head	1750	21.2	1.38	39.21	1.37	40.08	0.73	-2.17
2025.10.13	Head	1900	21.5	1.44	38.93	1.40	40.00	2.86	-2.68
2025.10.14	Head	1900	21.3	1.45	38.97	1.40	40.00	3.57	-2.58
2025.10.15	Head	2450	21.4	1.83	38.40	1.80	39.20	1.67	-2.04
2025.10.16	Head	2600	20.9	1.97	38.07	1.96	39.01	0.51	-2.41
2025.10.17	Head	2600	21.2	1.96	38.11	1.96	39.01	0.00	-2.31
2025.10.18	Head	2600	21.4	1.98	38.33	1.96	39.01	1.02	-1.74
2025.10.19	Head	3500	21.2	2.85	38.31	2.91	37.93	-2.06	1.00
2025.10.20	Head	3500	21.1	2.87	38.63	2.91	37.93	-1.37	1.85
2025.10.21	Head	3700	21.3	3.03	37.95	3.12	37.70	-2.88	0.66
2025.10.22	Head	3700	21.4	3.06	38.27	3.12	37.70	-1.92	1.51
2025.10.24	Head	5300	21.2	4.65	35.20	4.76	35.87	-2.31	-1.87
2025.10.25	Head	5600	21.3	4.96	34.58	5.07	35.53	-2.17	-2.67
2025.10.26	Head	5800	21.4	5.16	34.18	5.27	35.30	-2.09	-3.17
2025.09.13	Head	6500	21.4	5.99	35.05	6.07	34.46	-1.32	1.71
2025.09.14	Head	6500	21.2	5.96	34.81	6.07	34.46	-1.81	1.02

Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by Speag, the validation data should be within its specification of 10 %.

Head 1g

Date	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.10.9	750	100	0.859	8.59	8.46	1.54
2025.10.10	750	100	0.844	8.44	8.46	-0.24
2025.10.11	835	100	0.946	9.46	9.59	-1.36
2025.10.10	835	100	0.968	9.68	9.59	0.94
2025.10.12	1750	100	3.540	35.40	36.50	-3.01
2025.10.13	1900	100	3.870	38.70	39.90	-3.01
2025.10.14	1900	100	3.770	37.70	39.90	-5.51
2025.10.15	2450	100	5.040	50.40	52.60	-4.18
2025.10.16	2600	100	5.150	51.50	55.30	-6.87
2025.10.17	2600	100	4.990	49.90	55.30	-9.76
2025.10.18	2600	100	5.530	55.30	55.30	0.00
2025.10.19	3500	100	6.410	64.10	67.20	-4.61
2025.10.20	3500	100	6.740	67.40	67.20	0.30
2025.10.21	3700	100	6.640	66.40	66.70	-0.45
2025.10.22	3700	100	6.610	66.10	66.70	-0.90
2025.10.24	5300	100	7.750	77.50	79.00	-1.90
2025.10.25	5600	100	8.850	88.50	82.80	6.88
2025.10.26	5800	100	7.720	77.20	78.50	-1.66
2025.09.13	6500	100	29.900	299.00	299.00	0.00
2025.09.14	6500	100	30.300	303.00	299.00	1.34

Note: The tolerance limit of System validation $\pm 10\%$.

Limb 10g

Date	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.10.24	5300	100	2.330	23.30	23.00	1.30
2025.10.25	5600	100	2.530	25.30	24.00	5.42
2025.09.13	6500	100	5.610	56.10	55.20	1.63
2025.09.14	6500	100	5.590	55.90	55.20	1.27

Note: The tolerance limit of System validation $\pm 10\%$.

Please refer the document "BL-SH2580913-ASC.pdf".

ANNEX C TEST DATA

Please refer the document “BL-SH2580913-ATD.pdf”

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2580913-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SH2580913-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SH2580913-AC.pdf” and “BL-SH2580913-AC-1.pdf”

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--END OF REPORT--