



SAR TEST REPORT

Product Name: Smart phone

Model Name: TANK 2

FCC ID : 2BAVY-TANK2

Issued For : Shenzhen OBLUE Communication Technology Co.,Ltd.

Room 702, Hepingdayou industrial and trade industrial park,
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Report Number: LGT23E024HA01

Sample Received Date: May.16, 2023

Date of Test: May.17, 2023 ~ May.25, 2023

Date of Issue: June.09, 2023

Head:0.783 W/kg

Max. SAR (1g):

Body:1.214 W/kg

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Revision History

Rev.	Issue Date	Contents
00	June.09, 2023	Initial Issue



TEST REPORT CERTIFICATION

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Product Name Smart phone

Trademark 8849,Unihertz

Model Name TANK 2

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
ANSI/IEEE Std. C95.1-1992 FCC 47 CFR Part 2 (2.1093) IEEE 1528: 2013	PASS

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1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	Smart phone
Trademark	8849,Unihertz
Model Name	TANK 2
Series Model	N/A
Model Difference	N/A
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	G88_V2.1
Software Version	TANK2_20230504
Frequency Range	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz WCDMA Band II: 1850 ~ 1910 MHz WCDMA Band IV: 1710 ~ 1755 MHz WCDMA Band V: 824 ~ 849 MHz CDMA&EVDO: BC0: 825 MHz~ 849 MHz BC1: 1852 MHz~ 1909 MHz LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~ 2570 MHz LTE Band 12: 699 ~ 716 MHz LTE Band 13: 777 ~ 787 MHz LTE Band 17: 704 ~ 716 MHz LTE Band 25: 1850 ~ 1915 MHz LTE Band 26: 824 ~ 849 MHz LTE Band 38: 2570 ~ 2620 MHz LTE Band 40: 2305 ~ 2315 MHz / 2350 ~ 2360 MHz LTE Band 41: 2553 ~ 2675 MHz LTE Band 66: 1710 ~ 1780 MHz WLAN 802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 ~ 2480 MHz



Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:10mm	Mode	Head (W/ kg)	Body Worn and Hotspot (W/ kg)
	GSM 850	0.105	0.316
	PCS 1900	0.049	0.182
	WCDMA Band II	0.095	0.554
	WCDMA Band IV	0.078	0.433
	WCDMA Band V	0.124	0.223
	CDMA BC0	0.055	0.054
	CDMA BC1	0.046	0.081
	LTE Band 2	0.066	0.591
	LTE Band 4	0.048	0.486
	LTE Band 5	0.149	0.24
	LTE Band 7	0.168	0.608
	LTE Band 12	0.126	0.233
	LTE Band 13	0.154	0.212
	LTE Band 17	0.145	0.258
	LTE Band 25	0.09	1.214
	LTE Band 26	0.131	0.219
	LTE Band 38	0.181	0.434
	LTE Band 40	0.053	0.225
	LTE Band 41	0.178	0.415
	LTE Band 66	0.065	0.445
	2.4G WLAN	0.274	0.126
	Bluetooth	0.256	0.121
	5.2G WLAN	0.498	0.251
	5.3G WLAN	0.519	0.299
	5.6G WLAN	0.534	0.301
	5.8G WLAN	0.783	0.380
1-g Sum SAR		0.964	1.594
Battery	Rated Voltage:3.87V Capacity: 15500mAh		
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested		
Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK 802.11g(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 5G WLAN: 802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK		
Antenna Specification	GSM/WCDMA/LTE: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna		
Operating Mode	Maximum continuous output		
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot trans mitting at the same time		
Hotspot Mode	Support		
DTM Mode	Not Support		



1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China
Accreditation Certificate	FCC Registration No.: 746540
	A2LA Certificate No.: 6727.01
	IC Registration No.: CN0136



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.4 8.0 20.0

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

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.08 1.6 4.0

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

Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE
GENERAL POPULATION/UNCONTROLLED EXPOSURE
PARTIAL BODY LIMIT
1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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:

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

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

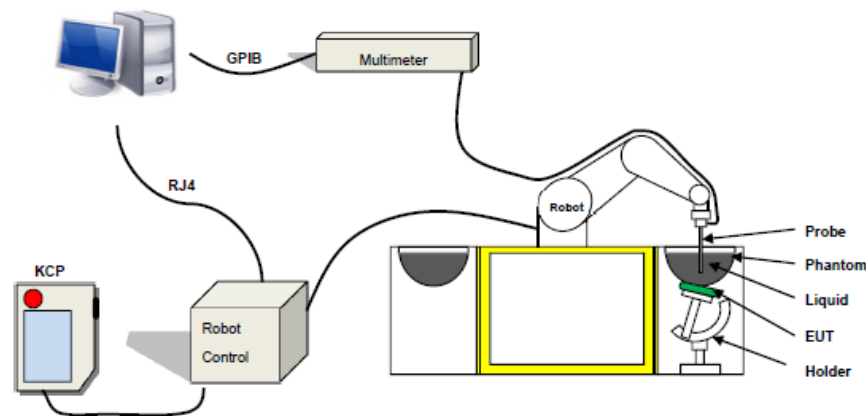
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue;

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

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 1g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 04/22 EPG0364 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 600 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Probe

3.2.2 Phantom

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.

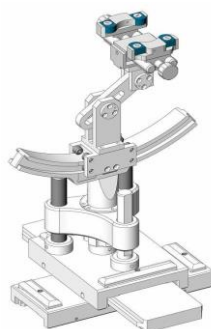


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

Frequency	ϵ_r		σ 1g S/m	
	Head	Body	Head	Body
300	45.3	45.3	0.87	0.87
450	43.5	43.5	0.87	0.87
900	41.5	41.5	0.97	0.97
1450	40.5	40.5	1.20	1.20
1800	40.0	40.0	1.40	1.40
2450	39.2	39.2	1.80	1.80
3000	38.5	38.5	2.40	2.40
5200	36.0	36.0	4.70	4.70



LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2023-05-17	21.6	44	750	21.4	Permittivity	41.90	42.27	0.88	±5
					Conductivity	0.89	0.87	-2.25	±5
2023-05-18	22.1	48	835	21.8	Permittivity	41.50	41.25	-0.60	±5
					Conductivity	0.90	0.92	2.22	±5
2023-05-22	22.2	48	835	21.9	Permittivity	41.50	40.39	-2.67	±5
					Conductivity	0.90	0.91	1.11	±5
2023-05-19	23.8	46	1800	23.5	Permittivity	40.00	41.00	2.50	±5
					Conductivity	1.40	1.39	-0.71	±5
2023-05-20	23.9	44	1900	23.7	Permittivity	40.00	41.13	2.83	±5
					Conductivity	1.40	1.39	-0.71	±5
2023-05-22	22.2	48	2450	21.9	Permittivity	39.20	40.36	2.96	±5
					Conductivity	1.80	1.85	2.78	±5
2023-05-23	23.5	58	2600	23.2	Permittivity	39.00	39.78	2.00	±5
					Conductivity	1.96	1.92	-2.04	±5
2023-05-24	23.5	41	5200	23.2	Permittivity	36.00	37.19	3.31	±5
					Conductivity	4.66	4.61	-1.07	±5
2023-05-24	20.4	40	5400	20.1	Permittivity	35.80	36.08	0.78	±5
					Conductivity	4.86	4.89	0.62	±5
2023-05-25	23.7	48	5600	23.4	Permittivity	35.55	36.27	2.03	±5
					Conductivity	5.07	5.09	0.49	±5
2023-05-25	21.4	47	5800	21.1	Permittivity	35.30	35.89	1.67	±5
					Conductivity	5.27	5.23	-0.76	±5

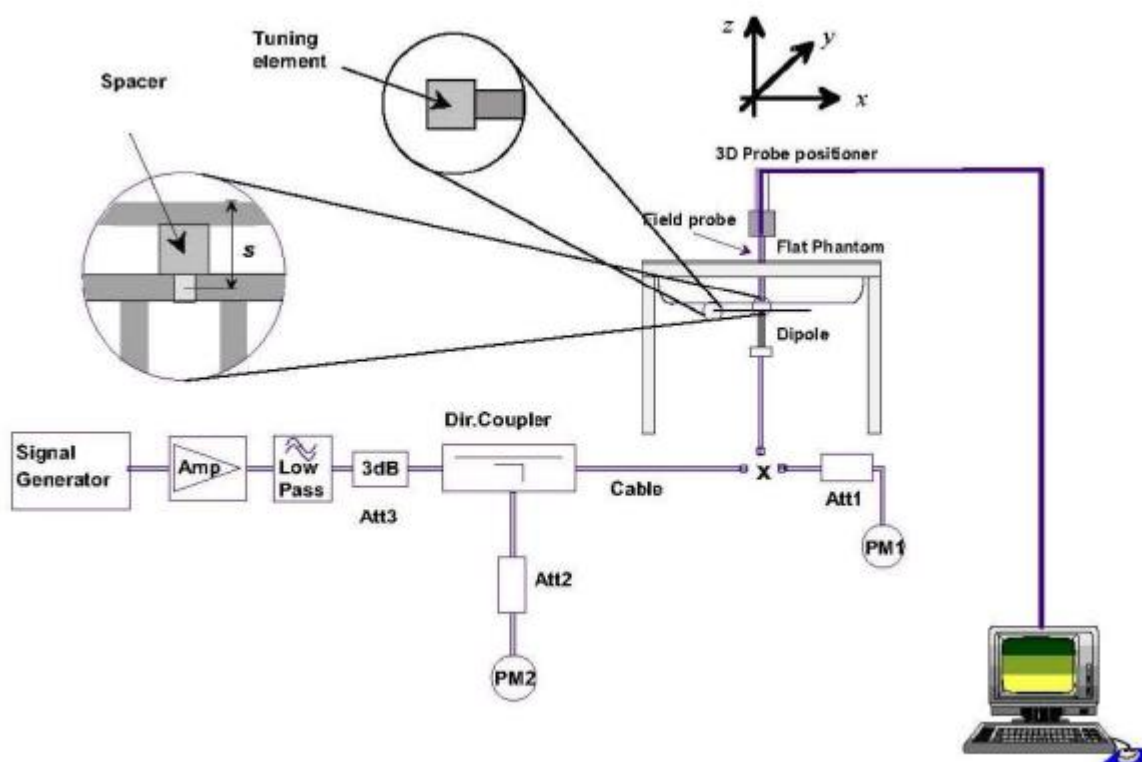


5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.





5.2 Validation Result

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

Date	Freq.	Power	Power drift	Tested Value	Normalized SAR	Target SAR	Tolerance
	(MHz)	(mW)	(%)	(W/Kg)	(W/kg)	1g(W/kg)	(%)
2023-05-17	750	100	2.66	0.903	9.03	8.27	9.19
2023-05-18	835	100	-0.03	0.950	9.50	9.75	-2.56
2023-05-22	835	100	-4.00	0.940	9.40	9.75	-3.59
2023-05-19	1800	100	1.43	4.104	41.04	39.06	5.07
2023-05-20	1900	100	0.96	4.193	41.93	40.85	2.64
2023-05-22	2450	100	-0.61	4.986	49.86	54.28	-8.14
2023-05-23	2600	100	1.27	5.236	52.36	56.58	-7.46
2023-05-24	5200	100	-2.35	7.862	78.62	77.64	1.26
2023-05-24	5400	100	-2.37	8.750	87.50	80.27	9.01
2023-05-25	5600	100	0.85	8.342	83.42	78.35	6.47
2023-05-25	5800	100	-3.36	8.102	81.02	74.92	8.14

Note:

1. The tolerance limit of System validation $\pm 10\%$.
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.



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6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

- 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
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- 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.
- 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.

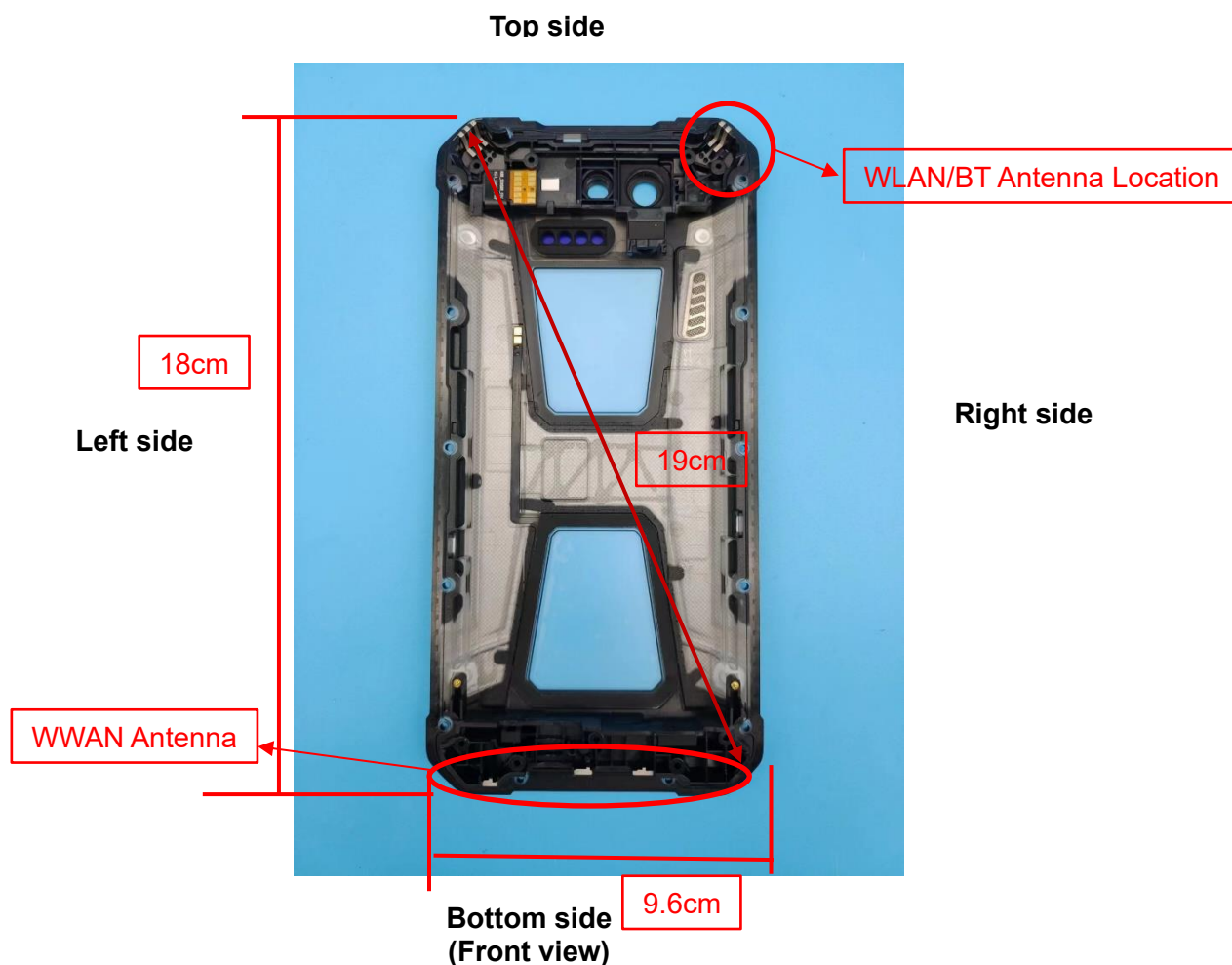
➤ Area Scan& Zoom Scan

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 D01 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.

7. EUT Antenna Location Sketch

It is a Smart phone, support GSM/WCDMA/LTE/WLAN/BT mode.



Antenna Separation Distance(cm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤0.5	≤0.5	6.8	≤0.5	≤0.5	16.2
WWAN	≤0.5	≤0.5	1.5	≤0.5	16.5	≤0.5

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



7.1 SAR test exclusion consider table

The WWAN/WLAN/BT SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
	Calculated Frequency (GHz)	0.8242	1.8502	1.9076	1.7524	0.8466
	Maximum Turn-up power (dBm)	30	29.5	22.5	22.5	23.5
	Maximum rated power(mW)	1000.00	891.25	177.83	177.83	223.87
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.42	3.44	3.35	3.59	9.07
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.42	3.44	3.35	3.59	9.07
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	1.5	1.5	1.5	1.5	1.5
	exclusion threshold(mW)	44.11	25.97	25.53	26.78	43.30
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.42	3.44	3.35	3.59	9.07
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (cm)	16.6	16.6	16.6	16.6	16.6
	exclusion threshold(mW)	1293.97	2171.35	2168.67	2176.13	1324.82
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.42	3.44	3.35	3.59	9.07
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	CDMA BC0	CDMA BC1	LTE Band 2	LTE Band 4	LTE Band 5
	Calculated Frequency (GHz)	0.83652	1.90875	1.86	1.745	0.829
	Maximum Turn-up power (dBm)	24	22.5	23.5	23.5	24.5
	Maximum rated power(mW)	251.19	177.83	223.87	223.87	281.84
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	3.35	3.42	3.60	9.34
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	3.35	3.42	3.60	9.34
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	1.5	1.5	1.5	1.5	1.5
	exclusion threshold(mW)	43.66	25.52	25.90	26.84	43.93
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	3.35	3.42	3.60	9.34
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (cm)	16.6	16.6	16.6	16.6	16.6
	exclusion threshold(mW)	1310.95	2168.61	2170.89	2176.50	1300.59
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	3.35	3.42	3.60	9.34
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17	LTE Band 25
	Calculated Frequency (GHz)	2.51	0.711	0.782	0.71	1.905
	Maximum Turn-up power (dBm)	23	24.5	19.5	24.5	23.5
	Maximum rated power(mW)	199.53	281.84	89.13	281.84	223.87
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.69	11.59	10.14	11.61	3.36
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.69	11.59	10.14	11.61	3.36
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	1.5	1.5	1.5	1.5	1.5
	exclusion threshold(mW)	21.88	48.82	45.73	48.87	25.55
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.69	11.59	10.14	11.61	3.36
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (cm)	16.6	16.6	16.6	16.6	16.6
	exclusion threshold(mW)	2144.72	1136.45	1235.58	1135.04	2168.79
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.69	11.59	10.14	11.61	3.36
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 26	LTE Band 38	LTE Band 40	LTE Band 41	LTE Band 66
	Calculated Frequency (GHz)	0.8315	2.58	2.35	2.68	1.745
	Maximum Turn-up power (dBm)	24	23.5	14	23	23.5
	Maximum rated power(mW)	251.19	223.87	25.12	199.53	223.87
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.30	2.63	2.84	2.55	3.60
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.30	2.63	2.84	2.55	3.60
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	1.5	1.5	1.5	1.5	1.5
	exclusion threshold(mW)	43.84	21.54	22.70	21.09	26.84
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.30	29.53	2.84	2.55	3.60
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (cm)	16.6	16.6	16.6	16.6	16.6
	exclusion threshold(mW)	5201.69	2142.33	2150.44	2139.04	2176.50
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.30	2.63	2.84	2.55	3.60
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	BT	2.4G WLAN	5.2G WLAN
	Calculated Frequency (GHz)	2.441	2.437	5.18
	Maximum Turn-up power (dBm)	3.5	19	13.5
	Maximum rated power(mW)	2.24	79.43	22.39
Back Side	Separation distance (cm)	0.5	0.5	0.5
	exclusion threshold(mW)	2.75	2.76	1.51
	Testing required?	NO	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5
	exclusion threshold(mW)	2.75	2.76	1.51
	Testing required?	NO	YES	YES
Left Edge	Separation distance (cm)	6.8	6.8	6.8
	exclusion threshold(mW)	393.46	393.61	329.88
	Testing required?	NO	NO	NO
Right Edge	Separation distance (cm)	0.5	0.5	0.5
	exclusion threshold(mW)	2.75	2.76	1.51
	Testing required?	NO	YES	YES
Top Edge	Separation distance (cm)	0.5	0.5	0.5
	exclusion threshold(mW)	2.75	2.76	1.51
	Testing required?	NO	YES	YES
Bottom Edge	Separation distance (cm)	16.2	16.2	16.2
	exclusion threshold(mW)	2049.84	2049.99	1980.47
	Testing required?	NO	NO	NO



Exposure Position	Wireless Interface	5.3G WLAN	5.6G WLAN	5.8G WLAN
	Calculated Frequency (GHz)	5.3	5.7	5.785
	Maximum Turn-up power (dBm)	13.5	14.5	14.5
	Maximum rated power(mW)	22.39	28.18	28.18
Back Side	Separation distance (cm)	0.5	0.5	0.5
	exclusion threshold(mW)	1.48	1.40	1.38
	Testing required?	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5
	exclusion threshold(mW)	1.48	1.40	1.38
	Testing required?	YES	YES	YES
Left Edge	Separation distance (cm)	6.8	6.8	6.8
	exclusion threshold(mW)	328.11	322.56	321.45
	Testing required?	NO	NO	NO
Right Edge	Separation distance (cm)	0.5	0.5	0.5
	exclusion threshold(mW)	1.48	1.40	1.38
	Testing required?	YES	YES	YES
Top Edge	Separation distance (cm)	0.5	0.5	0.5
	exclusion threshold(mW)	1.48	1.40	1.38
	Testing required?	YES	YES	YES
Bottom Edge	Separation distance (cm)	16.2	16.2	16.2
	exclusion threshold(mW)	1978.39	1971.82	1970.48
	Testing required?	NO	NO	NO

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D04, if the maximum time-averaged power available does not exceed 1 mW. This stand-alone SAR exemption test.



4. Per KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

5. Per KDB 447498 D04, An alternative to the SAR-based exemption is using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in below table to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.



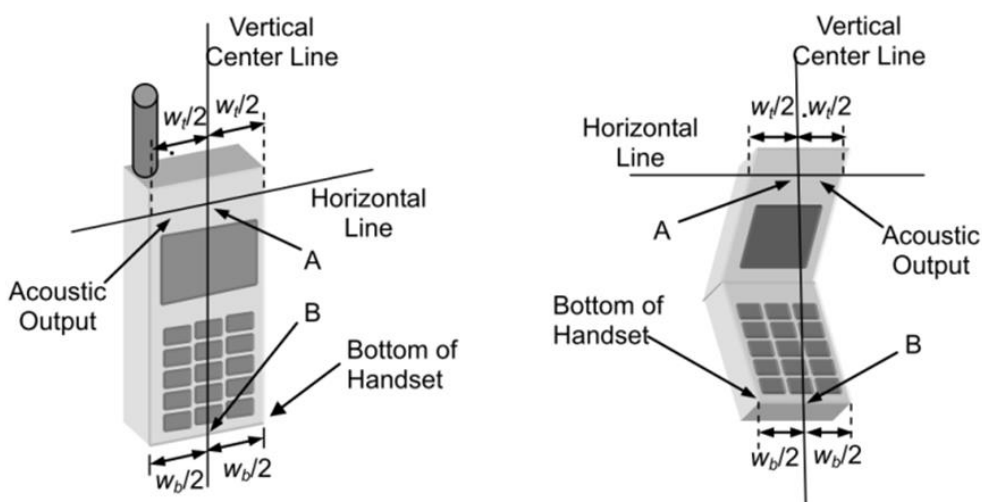
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.
7. Per KDB 616217 D04, SAR evaluation for the front surface of tablet display screens are generally not necessary.
8. Per KDB 248227, as maximum rated power for U-NII-2A > U-NII-1, U-NII-2A was chosen for SAR evaluation. Based on the measurements obtained, SAR measurements on U-NII-1 are not required as highest reported SAR from U-NII-2A band is $\leq 1.2\text{W/Kg}$.

8. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

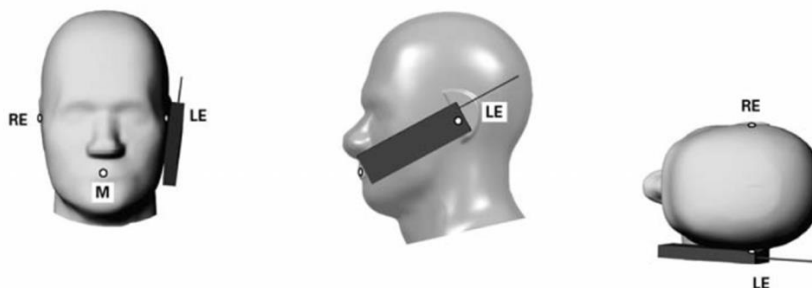
8.1 Define Two Imaginary Lines on the Handset

- (1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the handset.
- (2) 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.
- (3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Cheek Position

- 1) 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 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.
- 2) 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 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





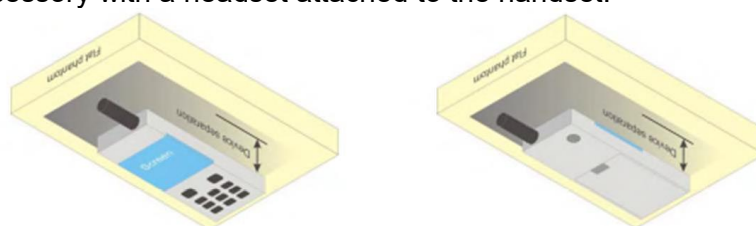
Title Position

- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in 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 with the ear is lost.



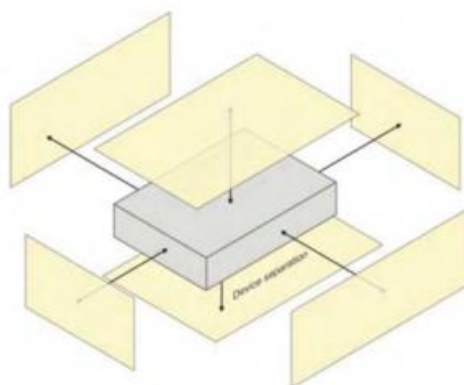
Body-worn Position Conditions:

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 Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition 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 surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than $9\text{cm} \times 5\text{cm}$, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate 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).





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Symbol	Uncertainty Component	Prob. Dist.	Unc. $a(x_i)$	Div. q_i	$u(x_i) = a(x_i)/q_i$	C_i	$u(y) = C_i * u(x_i)$	v_i
Measurement system errors								
CF	Probe calibration	N ($k = 2$)	5.8	2	2.90	1	2.90	∞
CF _{drift}	Probe calibration drift	R	0.12	$\sqrt{3}$	0.07	1	0.07	∞
LIN	Probe linearity and detection limit	R	1.91	$\sqrt{3}$	1.10	1	1.10	∞
BBS	Broadband signal	R	0.15	$\sqrt{3}$	0.09	1	0.09	∞
ISO	Probe isotropy	R	0.18	$\sqrt{3}$	0.10	1	0.10	∞
DAE	Other probe and data acquisition errors	N	2.7	1	2.70	1	2.70	∞
AMB	RF ambient and noise	N	1.73	1	1.73	1	1.73	∞
Δ_{xyz}	Probe positioning errors	N	0.81	1	0.81	$2/\delta$	0.81	
DAT	Data processing errors	N	2.5	1	2.50	1	2.50	∞
Phantom and device (DUT or validation antenna) errors								
LIQ(σ)	Measurement of phantom conductivity(σ)	N	4.4	1	4.4	$c\epsilon, c\sigma$	4.40	∞
LIQ(T_c)	Temperature effects (medium)	R	2.9	$\sqrt{3}$	1.67	$c\epsilon, c\sigma$	1.67	∞
EPS	Shell permittivity	R	3.4	$\sqrt{3}$	1.96	See 8.4.2.3	0.49	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	N	0.8	1	0.8	2	1.60	∞
D _{xyz}	Repeatability of positioning the DUT or source against the phantom	N	1.5	1	1.5	1	1.50	5
H	Device holder effects	N	3	1	3	1	3.00	
MOD	Effect of operating mode on probe sensitivity	R	3.59	$\sqrt{3}$	2.07	1	2.07	∞
TAS	Time-average SAR	R	1.73	$\sqrt{3}$	1.00	1	1.00	∞
RF _{drift}	Variation in SAR due to drift in output of DUT	N	2.89	1	2.89	1	2.89	
VAL	Validation antenna uncertainty (validation measurement only)	N	1.45	1	1.45	1	1.45	
P _{in}	Uncertainty in accepted power (validation measurement only)	N	2.5	1	2.5	1	2.50	
Corrections to the SAR result (if applied)								
C(ϵ', σ)	Phantom deviation from target (ϵ', σ)	N	2.31	1	2.31	1	2.31	
C(R)	SAR scaling	R	1.15	$\sqrt{3}$	0.66	1	0.66	
u(Δ SAR)	Combined uncertainty						9.53	
U	Expanded uncertainty and effective degrees of freedom					U =	19.06	



10. Conducted Power Measurement

10.1 Test Result:

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	32.86	32.56	32.71	30.17	30.05	29.91
GPRS (GMSK, 1-Slot)	32.85	32.53	32.71	30.16	30.06	29.92
GPRS (GMSK, 2-Slot)	32.11	31.88	32.05	29.31	29.18	29.07
GPRS (GMSK, 3-Slot)	30.56	30.14	30.29	27.35	27.22	27.09
GPRS (GMSK, 4-Slot)	29.48	29.05	29.20	26.29	26.18	25.98
EGPRS (8PSK, 1-Slot)	26.24	25.49	25.54	24.38	24.52	24.37
EGPRS (8PSK, 2-Slot)	25.07	24.37	24.54	23.81	23.76	23.02
EGPRS (8PSK, 3-Slot)	22.91	22.57	22.37	21.75	21.15	21.20
EGPRS (8PSK, 4-Slot)	22.05	21.40	21.16	20.24	20.17	19.70
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	23.83	23.53	23.68	21.14	21.02	20.88
GPRS (GMSK, 1-Slot)	23.82	23.50	23.68	21.13	21.03	20.89
GPRS (GMSK, 2-Slot)	26.09	25.86	26.03	23.29	23.16	23.05
GPRS (GMSK, 3-Slot)	26.30	25.88	26.03	23.09	22.96	22.83
GPRS (GMSK, 4-Slot)	26.47	26.04	26.19	23.28	23.17	22.97
EGPRS (8PSK, 1-Slot)	17.21	16.46	16.51	15.35	15.49	15.34
EGPRS (8PSK, 2-Slot)	19.05	18.35	18.52	17.79	17.74	17.00
EGPRS (8PSK, 3-Slot)	18.65	18.31	18.11	17.49	16.89	16.94
EGPRS (8PSK, 4-Slot)	19.04	18.39	18.15	17.23	17.16	16.69
Remark: 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						



WCDMA

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Channel	9262	9400	9538	9262	9400	9538	9262	9400	9538
Frequency (MHz)	1852.4	1880	1907.6	1852.4	1880	1907.6	1852.4	1880	1907.6
RMC 12.2Kbps	22.00	22.00	22.06	22.26	22.22	22.31	23.18	23.29	23.32
HSDPA Subtest-1	21.08	21.03	21.11	21.27	21.30	21.40	22.23	22.33	22.33
HSDPA Subtest-2	20.63	20.51	20.57	20.91	20.96	20.87	21.80	21.86	21.92
HSDPA Subtest-3	19.47	19.26	19.64	19.59	19.68	19.67	20.88	20.68	20.53
HSDPA Subtest-4	19.24	19.41	19.74	19.97	19.88	19.76	20.82	20.86	20.68
HSUPA Subtest-1	20.60	20.85	20.94	20.83	21.14	21.16	21.82	22.18	22.17
HSUPA Subtest-2	20.94	20.89	21.00	21.21	21.16	21.20	22.15	22.23	22.29
HSUPA Subtest-3	19.23	19.67	19.67	19.33	20.00	19.95	20.44	21.01	21.11
HSUPA Subtest-4	21.03	21.02	21.12	21.27	21.27	21.36	22.19	22.33	22.35
HSUPA Subtest-5	19.52	20.19	20.28	19.67	20.57	20.71	20.71	21.63	21.60

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM (db)	MPR (db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: $CM=1$ for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



CDMA

CDMA BC0		
Mode	Frequency (MHz)	AVG Power
CDMA BC0	824.7	23.34
	836.52	23.49
	848.31	23.40
EVDO BC0	824.7	23.28
	836.52	23.39
	848.31	23.32

CDMA BC1		
Mode	Frequency (MHz)	AVG Power
CDMA BC1	1851.25	22.05
	1880	22.20
	1908.75	22.33
EVDO BC1	1851.25	21.97
	1880	22.14
	1908.75	22.28

2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11b	1	2412	15.11	32.43
	6	2437	15.71	37.24
	11	2462	14.58	28.71
802.11g	1	2412	17.95	62.37
	6	2437	18.52	71.12
	11	2462	17.55	56.89
802.11 n-HT20	1	2412	17.90	61.66
	6	2437	18.54	71.45
	11	2462	17.38	54.70
802.11 n-HT40	3	2422	18.51	70.96
	6	2437	18.80	75.86
	9	2452	18.28	67.30



Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-0.24	0.95
	39	2441	3.12	2.05
	78	2480	0.32	1.08
$\pi/4$ -QPSK(2Mbps)	0	2402	-3.42	0.45
	39	2441	0.01	1.00
	78	2480	-2.49	0.56
8DPSK(3Mbps)	0	2402	-3.02	0.50
	39	2441	-0.07	0.98
	78	2480	-2.46	0.57

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-6.43	0.23
	19	2440	-3.24	0.47
	39	2480	-5.68	0.27
GFSK(2Mbps)	0	2402	-8.16	0.15
	19	2440	-5.42	0.29
	39	2480	-7.76	0.17

WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	12.88	19.41
	40	5200	12.75	18.84
	48	5240	12.94	19.68
802.11 n-HT20	36	5180	13.05	20.18
	40	5200	12.99	19.91
	48	5240	13.01	20.00
802.11 n-HT40	38	5190	13.03	20.09
	46	5230	12.85	19.28
802.11ac-VHT80	42	5210	12.59	18.16



WLAN (5.3G band)5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	52	5260	13.25	21.13
	60	5300	13.43	22.03
	64	5320	13.28	21.28
802.11 n-HT20	52	5260	13.29	21.33
	60	5300	13.27	21.23
	64	5320	13.12	20.51
802.11 n-HT40	54	5270	13.32	21.48
	62	5310	13.08	20.32
802.11ac-VHT80	58	5290	12.78	18.97

WLAN (5.6G band)

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	100	5500	13.54	22.59
	116	5580	13.44	22.08
	140	5700	13.70	23.44
802.11 n-HT20	100	5500	12.67	18.49
	116	5580	13.11	20.46
	140	5700	14.00	25.12
802.11 n-HT40	102	5510	12.36	17.22
	110	5550	12.72	18.71
	134	5670	13.72	23.55
802.11ac-VHT80	106	5530	12.40	17.38
	122	5610	13.39	21.83
	138	5690	13.54	22.59



WLAN (5.8G band)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	14.11	25.76
	157	5785	14.24	26.55
	165	5825	14.05	25.41
802.11 n-HT20	149	5745	14.23	26.49
	157	5785	14.42	27.67
	165	5825	14.17	26.12
802.11 n-HT40	151	5755	14.31	26.98
	159	5795	14.05	25.41
802.11ac-VHT80	155	5775	13.93	24.72



LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.81	22.75	22.89
1.4	1	2		22.9	22.84	22.97
1.4	1	5		22.81	22.74	22.93
1.4	3	0		22.75	22.82	22.89
1.4	3	1		22.81	22.85	22.91
1.4	3	2		22.76	22.79	22.92
1.4	6	0		21.89	21.93	22.05
1.4	1	0	16-QAM	21.83	21.87	21.7
1.4	1	2		21.91	21.91	21.78
1.4	1	5		21.87	21.91	21.77
1.4	3	0		21.92	21.98	22.01
1.4	3	1		21.97	22	22.04
1.4	3	2		21.9	21.99	22.03
1.4	6	0		21.06	21.07	21.21
3	1	0	QPSK	22.62	22.62	22.7
3	1	7		22.76	22.69	22.81
3	1	14		22.71	22.57	22.77
3	8	0		21.77	21.78	21.9
3	8	4		21.84	21.86	21.98
3	8	7		21.77	21.83	21.91
3	15	0		21.77	21.77	21.89
3	1	0	16-QAM	21.49	22.01	21.83
3	1	7		21.57	22.07	21.97
3	1	14		21.46	21.96	21.91
3	8	0		20.79	20.85	20.96
3	8	4		20.83	20.87	20.97
3	8	7		20.77	20.82	20.87
3	15	0		20.83	20.77	20.86



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.82	22.84	22.9
5	1	12		22.93	22.9	23.02
5	1	24		22.85	22.79	22.99
5	12	0		21.89	21.8	21.91
5	12	6		21.89	21.89	22.02
5	12	11		21.75	21.88	21.81
5	25	0		21.84	21.88	21.89
5	1	0	16-QAM	22.1	22.16	22.34
5	1	12		22.19	22.24	22.5
5	1	24		22.12	22.11	22.45
5	12	0		20.83	20.82	20.9
5	12	6		20.82	20.95	20.98
5	12	11		20.74	20.91	20.83
5	25	0		20.88	20.82	20.88
10	1	0	QPSK	22.88	23.07	22.93
10	1	24		22.96	23.06	23.05
10	1	49		23.03	22.96	23.07
10	25	0		21.92	21.74	21.64
10	25	12		21.86	21.94	21.95
10	25	24		21.81	21.85	21.83
10	50	0		21.87	21.82	21.74
10	1	0	16-QAM	22	21.86	22.28
10	1	24		22.06	21.85	22.39
10	1	49		22.13	21.76	22.41
10	25	0		20.96	20.75	20.71
10	25	12		20.89	20.92	20.99
10	25	24		20.8	20.87	20.87
10	50	0		20.91	20.77	20.74



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.8	22.98	22.85
15	1	37		22.96	22.99	23.09
15	1	74		23.01	22.82	23.11
15	36	0		21.97	21.79	21.83
15	36	18		21.98	22	22.01
15	36	39		21.99	21.81	22.03
15	75	0		21.97	21.83	21.98
15	1	0	16-QAM	22.18	22.1	21.9
15	1	38		22.34	22.1	22.05
15	1	75		22.37	21.97	22.11
15	36	0		21.01	20.85	20.8
15	36	18		21.01	21.05	20.95
15	36	39		20.98	20.89	20.99
15	75	0		20.93	20.82	21.01
20	1	0	QPSK	22.73	22.94	22.7
20	1	49		23.07	23.06	23.04
20	1	99		23	22.82	22.99
20	50	0		22.07	21.56	21.85
20	50	24		22	21.96	22.02
20	50	49		22.12	21.65	22.2
20	100	0		22.07	21.6	22.06
20	1	0	16-QAM	22	22.08	21.85
20	1	49		22.33	22.23	22.21
20	1	99		22.24	21.99	22.16
20	50	0		21.1	20.52	20.86
20	50	24		21.01	20.94	21.01
20	50	49		21.11	20.65	21.22
20	100	0		21.05	20.59	21.07



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.87	22.63	22.82
1.4	1	2		22.91	22.72	22.89
1.4	1	5		22.79	22.66	22.81
1.4	3	0		22.88	22.63	22.78
1.4	3	1		22.9	22.65	22.83
1.4	3	2		22.84	22.66	22.79
1.4	6	0		22.03	21.77	21.97
1.4	1	0	16-QAM	21.99	21.46	21.89
1.4	1	2		22.02	21.56	21.96
1.4	1	5		21.96	21.53	21.91
1.4	3	0		22.05	21.77	21.97
1.4	3	1		22.11	21.83	21.98
1.4	3	2		22.02	21.79	21.95
1.4	6	0		21.15	20.95	21.08
3	1	0	QPSK	22.73	22.45	22.67
3	1	7		22.81	22.56	22.72
3	1	14		22.75	22.46	22.6
3	8	0		21.86	21.67	21.88
3	8	4		21.96	21.73	21.93
3	8	7		21.88	21.73	21.86
3	15	0		21.86	21.69	21.85
3	1	0	16-QAM	21.54	21.84	21.84
3	1	7		21.6	21.93	21.87
3	1	14		21.48	21.88	21.77
3	8	0		20.83	20.67	20.86
3	8	4		20.87	20.75	20.88
3	8	7		20.83	20.67	20.79
3	15	0		20.9	20.64	20.77



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.92	22.65	22.83
5	1	12		22.91	22.76	22.92
5	1	24		22.8	22.76	22.78
5	12	0		21.86	21.64	21.94
5	12	6		21.9	21.79	21.95
5	12	11		21.92	21.81	21.89
5	25	0		21.89	21.74	21.94
5	1	0	16-QAM	22.35	21.94	22.14
5	1	12		22.36	22.06	22.23
5	1	24		22.25	22.03	22.13
5	12	0		20.81	20.61	20.95
5	12	6		20.87	20.74	20.95
5	12	11		20.87	20.71	20.88
5	25	0		20.82	20.73	20.84
10	1	0	QPSK	23.04	22.68	22.96
10	1	24		22.99	22.81	23
10	1	49		22.89	22.86	22.94
10	25	0		21.77	21.65	21.87
10	25	12		21.87	21.78	22
10	25	24		21.86	21.86	21.92
10	50	0		21.78	21.76	21.9
10	1	0	16-QAM	21.84	22.08	22.12
10	1	24		21.74	22.2	22.14
10	1	49		21.69	22.25	22.06
10	25	0		20.71	20.71	20.83
10	25	12		20.82	20.79	20.95
10	25	24		20.82	20.87	20.87
10	50	0		20.73	20.77	20.85



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.94	22.6	22.83
15	1	37		22.9	22.8	22.98
15	1	74		22.71	22.85	22.88
15	36	0		21.79	21.72	21.93
15	36	18		21.87	21.79	22.06
15	36	39		21.76	21.95	22.01
15	75	0		21.81	21.87	21.99
15	1	0	16-QAM	21.99	22.02	21.99
15	1	38		21.95	22.18	22.13
15	1	75		21.86	22.28	22.02
15	36	0		20.71	20.71	20.94
15	36	18		20.82	20.8	21.04
15	36	39		20.68	20.92	21
15	75	0		20.78	20.8	20.91
20	1	0	QPSK	22.81	22.5	22.7
20	1	49		22.82	22.83	23.14
20	1	99		22.67	22.91	22.92
20	50	0		21.62	21.73	21.75
20	50	24		21.73	21.8	22.04
20	50	49		21.59	21.99	22.02
20	100	0		21.55	21.85	21.91
20	1	0	16-QAM	21.99	21.8	21.89
20	1	49		22.03	22.14	22.25
20	1	99		21.88	22.2	22.1
20	50	0		20.6	20.74	20.62
20	50	24		20.73	20.79	20.95
20	50	49		20.6	21.01	20.96
20	100	0		20.55	20.83	20.82



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.69	23.84	23.81
1.4	1	2		23.8	23.92	23.9
1.4	1	5		23.69	23.86	23.77
1.4	3	0		23.82	23.88	23.78
1.4	3	1		23.8	23.9	23.77
1.4	3	2		23.78	23.87	23.81
1.4	6	0		22.9	22.93	22.88
1.4	1	0	16-QAM	22.92	22.74	22.93
1.4	1	2		22.98	22.83	22.99
1.4	1	5		22.94	22.76	22.93
1.4	3	0		23.01	23.1	23.01
1.4	3	1		23.07	23.13	23.05
1.4	3	2		23.02	23.13	23.01
1.4	6	0		22.02	22.17	22.09
3	1	0	QPSK	23.57	23.59	23.76
3	1	7		23.69	23.75	23.85
3	1	14		23.63	23.66	23.8
3	8	0		22.71	22.87	22.75
3	8	4		22.85	22.97	22.88
3	8	7		22.83	22.97	22.8
3	15	0		22.8	22.91	22.79
3	1	0	16-QAM	22.47	23.13	23.35
3	1	7		22.55	23.22	23.39
3	1	14		22.44	23.12	23.45
3	8	0		21.69	21.92	21.76
3	8	4		21.77	21.96	21.87
3	8	7		21.78	21.95	21.82
3	15	0		21.86	21.98	21.76



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.76	23.84	23.79
5	1	12		23.85	23.99	23.91
5	1	24		23.8	23.96	23.79
5	12	0		22.75	22.92	22.9
5	12	6		22.88	23.04	22.96
5	12	11		22.8	23.05	22.89
5	25	0		22.79	23	22.9
5	1	0	16-QAM	23.35	23.27	23.2
5	1	12		23.39	23.38	23.29
5	1	24		23.45	23.36	23.22
5	12	0		21.76	21.86	21.89
5	12	6		21.87	22.01	21.97
5	12	11		21.82	22.01	21.84
5	25	0		21.76	22.04	21.91
10	1	0	QPSK	23.9	23.95	23.99
10	1	24		23.99	24.06	24.02
10	1	49		24.07	24	23.97
10	25	0		22.79	22.92	22.75
10	25	12		22.86	23.07	22.97
10	25	24		22.77	23.16	22.85
10	50	0		22.77	23.08	22.85
10	1	0	16-QAM	22.77	23.4	23.18
10	1	24		22.82	23.52	23.17
10	1	49		22.97	23.42	23.16
10	25	0		21.78	22.03	21.8
10	25	12		21.92	22.12	21.94
10	25	24		21.84	22.12	21.92
10	50	0		21.74	22.06	21.8



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.86	22.9	22.88
5	1	12		22.93	23.01	23
5	1	24		22.82	22.99	23.03
5	12	0		21.82	21.88	21.91
5	12	6		21.89	21.94	22.02
5	12	11		21.86	21.92	22
5	25	0		21.83	21.89	21.92
5	1	0	16-QAM	22.21	22.09	22.07
5	1	12		22.25	22.16	22.15
5	1	24		22.17	22.11	22.12
5	12	0		20.75	20.82	20.79
5	12	6		20.82	20.86	20.93
5	12	11		20.77	20.79	20.88
5	25	0		20.77	20.88	20.83
10	1	0	QPSK	22.94	22.87	22.64
10	1	24		22.88	22.97	22.93
10	1	49		22.87	23.02	23.03
10	25	0		21.83	21.84	21.55
10	25	12		21.84	21.96	21.61
10	25	24		21.79	21.91	21.53
10	50	0		21.82	21.82	21.46
10	1	0	16-QAM	22.19	21.98	21.29
10	1	24		22.15	22.05	21.36
10	1	49		22.18	22.05	21.33
10	25	0		20.81	20.72	20.35
10	25	12		20.85	20.93	20.41
10	25	24		20.77	20.86	20.44
10	50	0		20.75	20.72	20.4



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.84	22.49	22.33
15	1	37		22.81	22.79	22.46
15	1	74		22.72	22.87	22.61
15	36	0		21.9	21.6	21.41
15	36	18		21.92	21.64	21.51
15	36	39		21.85	21.57	21.53
15	75	0		21.89	21.52	21.52
15	1	0	16-QAM	21.8	21.48	21.69
15	1	38		21.85	21.6	21.8
15	1	75		21.64	21.55	21.79
15	36	0		20.78	20.27	20.4
15	36	18		20.88	20.56	20.48
15	36	39		20.75	20.54	20.52
15	75	0		20.62	20.47	20.42
20	1	0	QPSK	22.65	22.1	22.41
20	1	49		22.9	22.58	22.58
20	1	99		22.54	22.48	22.66
20	50	0		21.59	21.31	21.4
20	50	24		21.66	21.49	21.5
20	50	49		21.31	21.33	21.48
20	100	0		21.51	21.32	21.47
20	1	0	16-QAM	21.43	21.44	21.47
20	1	49		21.53	21.76	21.69
20	1	99		21.43	21.61	21.58
20	50	0		20.3	20.25	20.36
20	50	24		20.33	20.46	20.47
20	50	49		20.29	20.37	20.45
20	100	0		20.25	20.26	20.39



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.73	23.61	23.71
1.4	1	2		23.82	23.75	23.79
1.4	1	5		23.73	23.6	23.7
1.4	3	0		23.68	23.78	23.69
1.4	3	1		23.73	23.79	23.73
1.4	3	2		23.72	23.74	23.69
1.4	6	0		22.84	22.81	22.83
1.4	1	0	16-QAM	22.76	22.8	22.45
1.4	1	2		22.78	22.89	22.52
1.4	1	5		22.73	22.88	22.51
1.4	3	0		22.86	22.97	22.76
1.4	3	1		22.88	22.99	22.86
1.4	3	2		22.81	23.03	22.82
1.4	6	0		21.95	21.97	21.96
3	1	0	QPSK	23.47	23.53	23.57
3	1	7		23.57	23.62	23.71
3	1	14		23.5	23.51	23.65
3	8	0		22.69	22.7	22.76
3	8	4		22.78	22.78	22.86
3	8	7		22.72	22.78	22.72
3	15	0		22.65	22.74	22.74
3	1	0	16-QAM	22.86	22.68	22.32
3	1	7		22.87	22.79	22.43
3	1	14		22.81	22.72	22.36
3	8	0		21.61	21.72	21.7
3	8	4		21.72	21.78	21.74
3	8	7		21.65	21.73	21.7
3	15	0		21.67	21.74	21.76



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.64	23.72	23.77
5	1	12		23.74	23.83	23.87
5	1	24		23.75	23.8	23.83
5	12	0		22.72	22.74	22.78
5	12	6		22.76	22.86	22.83
5	12	11		22.67	22.93	22.75
5	25	0		22.67	22.82	22.75
5	1	0	16-QAM	22.9	23.16	23.08
5	1	12		22.96	23.37	23.06
5	1	24		22.93	23.34	23.08
5	12	0		21.71	21.73	21.74
5	12	6		21.76	21.84	21.75
5	12	11		21.65	21.9	21.67
5	25	0		21.61	21.85	21.75
10	1	0	QPSK	23.77	23.74	23.87
10	1	24		23.86	23.86	23.97
10	1	49		23.88	23.87	23.98
10	25	0		22.81	22.72	22.65
10	25	12		22.8	22.85	22.9
10	25	24		22.77	22.98	22.66
10	50	0		22.78	22.89	22.75
10	1	0	16-QAM	23.07	22.81	22.65
10	1	24		23.11	23.04	22.78
10	1	49		23.35	22.97	22.69
10	25	0		21.7	21.71	21.63
10	25	12		21.81	21.86	21.82
10	25	24		21.86	21.94	21.67
10	50	0		21.77	21.9	21.66



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	18.8	18.84	18.87
5	1	12		18.93	18.91	19.04
5	1	24		18.88	18.87	18.98
5	12	0		17.76	17.92	17.91
5	12	6		17.93	17.93	17.97
5	12	11		17.84	17.93	18.01
5	25	0		17.82	17.89	17.96
5	1	0	16-QAM	18.18	18.21	18.42
5	1	12		18.28	18.31	18.64
5	1	24		18.29	18.28	18.57
5	12	0		16.69	16.99	16.91
5	12	6		16.9	16.99	17.07
5	12	11		16.79	16.94	17.03
5	25	0		16.86	16.94	16.99
10	1	0	QPSK	/	18.96	/
10	1	24		/	19.05	/
10	1	49		/	19.15	/
10	25	0		/	17.83	/
10	25	12		/	17.95	/
10	25	24		/	17.85	/
10	50	0		/	17.92	/
10	1	0	16-QAM	/	17.81	/
10	1	24		/	17.91	/
10	1	49		/	18.01	/
10	25	0		/	16.92	/
10	25	12		/	17.04	/
10	25	24		/	16.97	/
10	50	0		/	16.92	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.69	23.74	23.7
5	1	12		23.83	23.84	23.78
5	1	24		23.77	23.79	23.69
5	12	0		22.77	22.67	22.75
5	12	6		22.83	22.87	22.83
5	12	11		22.84	22.84	22.73
5	25	0		22.79	22.78	22.7
5	1	0	16-QAM	23.07	23.03	23
5	1	12		23.33	23.16	23
5	1	24		23.28	23.02	22.99
5	12	0		21.71	21.61	21.79
5	12	6		21.85	21.78	21.79
5	12	11		21.82	21.75	21.73
5	25	0		21.76	21.82	21.72
10	1	0	QPSK	23.74	23.88	23.77
10	1	24		23.86	23.95	23.83
10	1	49		23.89	23.96	23.86
10	25	0		22.67	22.66	22.65
10	25	12		22.84	22.87	22.84
10	25	24		22.84	22.73	22.7
10	50	0		22.79	22.74	22.7
10	1	0	16-QAM	22.82	22.64	23.17
10	1	24		23.01	22.74	23.27
10	1	49		22.93	22.62	23.25
10	25	0		21.74	21.68	21.66
10	25	12		21.87	21.83	21.85
10	25	24		21.84	21.73	21.68
10	50	0		21.83	21.75	21.66



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.73	22.74	22.93
1.4	1	2		22.83	22.83	23.03
1.4	1	5		22.73	22.73	22.93
1.4	3	0		22.78	22.75	22.85
1.4	3	1		22.81	22.76	22.87
1.4	3	2		22.76	22.73	22.84
1.4	6	0		21.88	21.85	22.04
1.4	1	0	16-QAM	21.86	21.55	21.97
1.4	1	2		21.92	21.62	22.03
1.4	1	5		21.88	21.57	21.95
1.4	3	0		21.97	21.86	21.99
1.4	3	1		22.02	21.86	22.04
1.4	3	2		21.98	21.88	21.95
1.4	6	0		21.03	21.02	21.2
3	1	0	QPSK	22.58	22.57	22.67
3	1	7		22.65	22.67	22.77
3	1	14		22.58	22.63	22.65
3	8	0		21.75	21.7	21.86
3	8	4		21.78	21.78	21.94
3	8	7		21.76	21.73	21.95
3	15	0		21.74	21.74	21.88
3	1	0	16-QAM	21.73	21.42	22.06
3	1	7		21.82	21.49	22.13
3	1	14		21.73	21.39	22.04
3	8	0		20.79	20.72	20.89
3	8	4		20.79	20.74	20.99
3	8	7		20.71	20.74	20.95
3	15	0		20.72	20.8	20.91



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.78	22.79	22.92
5	1	12		22.84	22.84	23.04
5	1	24		22.78	22.81	22.93
5	12	0		21.86	21.79	22.05
5	12	6		21.85	21.81	22
5	12	11		21.75	21.74	22.07
5	25	0		21.83	21.77	22.07
5	1	0	16-QAM	22.06	22.25	22.22
5	1	12		22.16	22.34	22.29
5	1	24		22.09	22.26	22.17
5	12	0		20.89	20.8	20.98
5	12	6		20.88	20.84	20.92
5	12	11		20.76	20.75	20.98
5	25	0		20.82	20.76	21.07
10	1	0	QPSK	22.81	22.93	22.97
10	1	24		22.89	22.9	23.14
10	1	49		22.92	22.84	23.11
10	25	0		21.93	21.76	22.13
10	25	12		21.86	21.81	22.01
10	25	24		21.75	21.64	21.9
10	50	0		21.87	21.72	22.05
10	1	0	16-QAM	22.22	22.01	21.79
10	1	24		22.28	22	21.92
10	1	49		22.3	21.96	21.79
10	25	0		20.94	20.73	21.16
10	25	12		20.89	20.86	21.02
10	25	24		20.77	20.64	20.86
10	50	0		20.86	20.72	21



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.8	22.9	22.87
15	1	37		23.01	22.84	22.99
15	1	74		23.02	22.78	22.94
15	36	0		21.9	21.75	21.74
15	36	18		21.9	21.86	21.98
15	36	39		21.93	21.68	21.82
15	75	0		21.92	21.76	21.78
15	1	0	16-QAM	21.86	22.25	21.98
15	1	38		22.02	22.21	22.12
15	1	75		22.05	22.13	22.07
15	36	0		20.9	20.8	20.81
15	36	18		20.87	20.87	21.04
15	36	39		20.91	20.7	20.89
15	75	0		20.92	20.71	20.78
20	1	0	QPSK	22.64	22.9	22.69
20	1	49		22.99	22.98	23.06
20	1	99		22.99	22.8	22.99
20	50	0		21.98	21.58	21.5
20	50	24		21.92	21.82	21.89
20	50	49		22.03	21.48	21.48
20	100	0		22	21.5	21.49
20	1	0	16-QAM	21.96	22	21.82
20	1	49		22.27	22.11	22.19
20	1	99		22.23	21.98	22.13
20	50	0		21	20.54	20.48
20	50	24		20.96	20.82	20.89
20	50	49		21.06	20.44	20.56
20	100	0		20.97	20.51	20.48



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.51	23.63	23.61
1.4	1	2		23.6	23.7	23.71
1.4	1	5		23.5	23.61	23.62
1.4	3	0		23.63	23.69	23.63
1.4	3	1		23.66	23.72	23.65
1.4	3	2		23.61	23.69	23.61
1.4	6	0		22.72	22.77	22.76
1.4	1	0	16-QAM	22.71	22.53	22.73
1.4	1	2		22.78	22.65	22.84
1.4	1	5		22.75	22.53	22.76
1.4	3	0		22.85	22.91	22.85
1.4	3	1		22.93	22.94	22.86
1.4	3	2		22.83	22.94	22.78
1.4	6	0		21.9	22	21.94
3	1	0	QPSK	23.35	23.51	23.49
3	1	7		23.44	23.56	23.57
3	1	14		23.38	23.51	23.48
3	8	0		22.58	22.64	22.65
3	8	4		22.64	22.76	22.76
3	8	7		22.66	22.8	22.69
3	15	0		22.59	22.75	22.68
3	1	0	16-QAM	22.79	22.74	22.38
3	1	7		22.87	22.79	22.44
3	1	14		22.78	22.76	22.34
3	8	0		21.63	21.7	21.65
3	8	4		21.69	21.76	21.69
3	8	7		21.65	21.74	21.65
3	15	0		21.66	21.68	21.73



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.56	23.69	23.68
5	1	12		23.69	23.78	23.8
5	1	24		23.64	23.73	23.7
5	12	0		22.57	22.74	22.78
5	12	6		22.74	22.88	22.83
5	12	11		22.68	22.88	22.72
5	25	0		22.64	22.86	22.74
5	1	0	16-QAM	22.95	23.13	23.22
5	1	12		23.04	23.19	23.36
5	1	24		23.03	23.13	23.33
5	12	0		21.53	21.71	21.72
5	12	6		21.64	21.86	21.83
5	12	11		21.58	21.87	21.76
5	25	0		21.66	21.79	21.71
10	1	0	QPSK	23.71	23.72	23.8
10	1	24		23.83	23.85	23.83
10	1	49		23.86	23.88	23.79
10	25	0		22.61	22.79	22.64
10	25	12		22.74	22.89	22.78
10	25	24		22.63	22.92	22.74
10	50	0		22.6	22.9	22.71
10	1	0	16-QAM	22.58	23.23	22.98
10	1	24		22.67	23.28	22.99
10	1	49		22.79	23.26	22.99
10	25	0		21.6	21.83	21.62
10	25	12		21.78	21.94	21.75
10	25	24		21.66	21.97	21.72
10	50	0		21.58	21.88	21.71



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.62	23.63	23.76
15	1	37		23.82	23.87	23.83
15	1	74		23.86	23.83	23.75
15	36	0		22.72	22.77	22.73
15	36	18		22.79	22.88	22.86
15	36	39		22.84	22.99	22.82
15	75	0		22.8	22.91	22.79
15	1	0	16-QAM	22.8	22.76	23.18
15	1	38		23.05	23.05	23.27
15	1	75		23.03	22.9	23.17
15	36	0		21.81	21.73	21.75
15	36	18		21.89	21.85	21.88
15	36	39		21.91	21.96	21.81
15	75	0		21.81	21.92	21.76



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.16	22.75	22.81
5	1	12		23.29	22.85	22.99
5	1	24		23.2	22.69	22.94
5	12	0		22.2	21.77	21.92
5	12	6		22.25	21.84	21.99
5	12	11		22.21	21.73	22
5	25	0		22.21	21.76	21.94
5	1	0	16-QAM	22.71	22.03	22.12
5	1	12		22.85	22.06	22.32
5	1	24		22.76	21.96	22.29
5	12	0		21.18	20.71	20.91
5	12	6		21.24	20.75	21.02
5	12	11		21.2	20.7	21.02
5	25	0		21.18	20.8	20.94
10	1	0	QPSK	23.19	22.88	22.81
10	1	24		23.28	22.82	22.99
10	1	49		23.18	22.72	23.1
10	25	0		22.2	21.82	21.87
10	25	12		22.25	21.8	21.95
10	25	24		22.21	21.73	21.98
10	50	0		22.2	21.81	21.94
10	1	0	16-QAM	22.68	22.01	21.74
10	1	24		22.73	21.95	21.9
10	1	49		22.66	21.91	22.01
10	25	0		21.25	20.84	20.88
10	25	12		21.3	20.82	20.97
10	25	24		21.27	20.76	20.98
10	50	0		21.22	20.83	20.92



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.23	22.84	22.64
15	1	37		23.35	22.8	22.93
15	1	74		23.12	22.63	23.03
15	36	0		22.21	21.86	21.76
15	36	18		22.25	21.87	21.89
15	36	39		22.15	21.73	21.97
15	75	0		22.21	21.83	21.92
15	1	0	16-QAM	22.37	22.32	21.77
15	1	38		22.46	22.26	22.06
15	1	75		22.26	22.12	22.15
15	36	0		21.16	20.88	20.79
15	36	18		21.19	20.84	20.95
15	36	39		21.11	20.74	21.02
15	75	0		21.2	20.76	20.83
20	1	0	QPSK	23.06	22.9	22.53
20	1	49		23.23	22.86	22.89
20	1	99		22.86	22.65	22.99
20	50	0		22.16	21.85	21.67
20	50	24		22.19	21.88	21.86
20	50	49		22.03	21.68	21.94
20	100	0		22.09	21.74	21.8
20	1	0	16-QAM	22.33	22.08	21.7
20	1	49		22.48	22.04	22.03
20	1	99		22.11	21.88	22.14
20	50	0		21.2	20.83	20.72
20	50	24		21.24	20.85	20.88
20	50	49		21.11	20.7	20.94
20	100	0		21.07	20.74	20.79



LTE Band 40 Maximum Average Power [dBm] 2305-2315						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	13.52	13.52	13.44
5	1	12		13.67	13.64	13.63
5	1	24		13.54	13.55	13.53
5	12	0		12.51	12.44	12.45
5	12	6		12.56	12.52	12.55
5	12	11		12.54	12.53	12.6
5	25	0		12.52	12.47	12.49
5	1	0	16-QAM	13.1	12.77	12.78
5	1	12		13.27	12.91	12.97
5	1	24		13.13	12.81	12.9
5	12	0		11.47	11.39	11.45
5	12	6		11.53	11.45	11.56
5	12	11		11.49	11.45	11.6
5	25	0		11.5	11.52	11.47
10	1	0	QPSK	/	13.65	/
10	1	24		/	13.66	/
10	1	49		/	13.66	/
10	25	0		/	12.5	/
10	25	12		/	12.57	/
10	25	24		/	12.63	/
10	50	0		/	12.54	/
10	1	0	16-QAM	/	12.53	/
10	1	24		/	12.55	/
10	1	49		/	12.6	/
10	25	0		/	11.49	/
10	25	12		/	11.53	/
10	25	24		/	11.61	/
10	50	0		/	11.53	/



LTE Band 40 Maximum Average Power [dBm] 2350-2360						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	14.25	14.18	14.28
5	1	12		14.39	14.36	14.43
5	1	24		14.3	14.2	14.38
5	12	0		13.23	13.23	13.24
5	12	6		13.26	13.28	13.35
5	12	11		13.23	13.21	13.31
5	25	0		13.25	13.25	13.32
5	1	0	16-QAM	13.54	13.53	13.86
5	1	12		13.65	13.68	14.02
5	1	24		13.58	13.58	13.95
5	12	0		12.19	12.24	12.24
5	12	6		12.26	12.31	12.35
5	12	11		12.18	12.25	12.32
5	25	0		12.28	12.2	12.29
10	1	0	QPSK	/	14.33	/
10	1	24		/	14.41	/
10	1	49		/	14.46	/
10	25	0		/	13.28	/
10	25	12		/	13.31	/
10	25	24		/	13.3	/
10	50	0		/	13.27	/
10	1	0	16-QAM	/	13.42	/
10	1	24		/	13.5	/
10	1	49		/	13.56	/
10	25	0		/	12.27	/
10	25	12		/	12.31	/
10	25	24		/	12.29	/
10	50	0		/	12.29	/



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	19.38	22.01	22.69
5	1	12		19.78	22.16	22.81
5	1	24		19.73	22.1	22.68
5	12	0		19.5	21.12	21.67
5	12	6		19.67	21.2	21.69
5	12	11		19.68	21.16	21.63
5	25	0		19.58	21.14	21.61
5	1	0	16-QAM	19.89	21.34	22.07
5	1	12		20.25	21.51	22.21
5	1	24		20.24	21.45	22.07
5	12	0		19.65	20.13	20.61
5	12	6		19.8	20.21	20.66
5	12	11		19.84	20.15	20.58
5	25	0		19.81	20.12	20.6
10	1	0	QPSK	19.33	22.16	22.73
10	1	24		19.89	22.24	22.72
10	1	49		19.97	22.3	22.69
10	25	0		19.58	21.15	21.7
10	25	12		19.8	21.2	21.71
10	25	24		19.9	21.2	21.6
10	50	0		19.72	21.19	21.65
10	1	0	16-QAM	19.63	21.08	22.08
10	1	24		20.19	21.17	22.08
10	1	49		20.3	21.18	22.01
10	25	0		19.79	20.16	20.66
10	25	12		20.01	20.19	20.68
10	25	24		20.11	20.21	20.59
10	50	0		19.96	20.17	20.63



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	19.33	22.05	22.8
15	1	37		20.02	22.2	22.93
15	1	74		20.31	22.28	22.78
15	36	0		19.67	21.15	21.82
15	36	18		19.97	21.21	21.85
15	36	39		20.18	21.26	21.77
15	75	0		19.9	21.21	21.81
15	1	0	16-QAM	19.94	21.19	21.85
15	1	38		20.62	21.33	21.94
15	1	75		20.9	21.42	21.79
15	36	0		19.88	20.22	20.71
15	36	18		20.18	20.28	20.78
15	36	39		20.4	20.32	20.64
15	75	0		20.07	20.17	20.72
20	1	0	QPSK	19.15	21.99	22.56
20	1	49		20.23	22.25	22.89
20	1	99		20.38	22.32	22.67
20	50	0		19.78	21.14	21.7
20	50	24		20.19	21.23	21.75
20	50	49		20.4	21.25	21.61
20	100	0		20.06	21.16	21.66
20	1	0	16-QAM	19.5	21.16	21.69
20	1	49		20.55	21.41	21.99
20	1	99		20.73	21.48	21.74
20	50	0		19.92	20.15	20.69
20	50	24		20.33	20.27	20.76
20	50	49		20.55	20.29	20.64
20	100	0		20.24	20.15	20.6



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.84	22.93	22.85
1.4	1	2		22.96	23.03	22.95
1.4	1	5		22.81	22.92	22.87
1.4	3	0		22.9	22.89	22.77
1.4	3	1		22.91	22.94	22.82
1.4	3	2		22.84	22.89	22.8
1.4	6	0		22	22.09	21.98
1.4	1	0	16-QAM	21.96	21.71	21.88
1.4	1	2		22.02	21.77	21.97
1.4	1	5		21.94	21.73	21.96
1.4	3	0		22.04	21.98	21.93
1.4	3	1		22.09	22.04	21.98
1.4	3	2		22.01	22	21.95
1.4	6	0		21.15	21.19	21.09
3	1	0	QPSK	22.65	22.7	22.62
3	1	7		22.71	22.79	22.76
3	1	14		22.62	22.7	22.79
3	8	0		21.83	21.9	21.82
3	8	4		21.91	21.98	21.89
3	8	7		21.91	21.97	21.84
3	15	0		21.82	21.91	21.82
3	1	0	16-QAM	22.02	21.88	21.45
3	1	7		22.07	21.93	21.56
3	1	14		22	21.92	21.54
3	8	0		20.85	20.89	20.74
3	8	4		20.88	20.96	20.86
3	8	7		20.87	20.86	20.78
3	15	0		20.81	20.83	20.81



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.89	22.94	22.7
5	1	12		22.94	23.05	22.84
5	1	24		22.86	23	22.85
5	12	0		21.84	21.93	21.86
5	12	6		21.94	22.05	21.92
5	12	11		21.91	22.01	21.82
5	25	0		21.88	22	21.82
5	1	0	16-QAM	22.32	22.19	21.97
5	1	12		22.38	22.26	22.14
5	1	24		22.29	22.24	22.19
5	12	0		20.79	20.85	20.84
5	12	6		20.86	20.96	20.89
5	12	11		20.85	20.9	20.8
5	25	0		20.84	20.96	20.75
10	1	0	QPSK	22.96	23	22.69
10	1	24		22.92	23.15	22.87
10	1	49		22.81	23.09	22.95
10	25	0		21.74	21.84	21.66
10	25	12		21.88	22.05	21.83
10	25	24		21.84	22.05	21.79
10	50	0		21.82	21.97	21.74
10	1	0	16-QAM	22.02	21.83	22.06
10	1	24		22.04	21.91	22.21
10	1	49		21.92	21.89	22.38
10	25	0		20.72	20.8	20.64
10	25	12		20.85	21.02	20.8
10	25	24		20.81	20.99	20.76
10	50	0		20.78	20.86	20.66

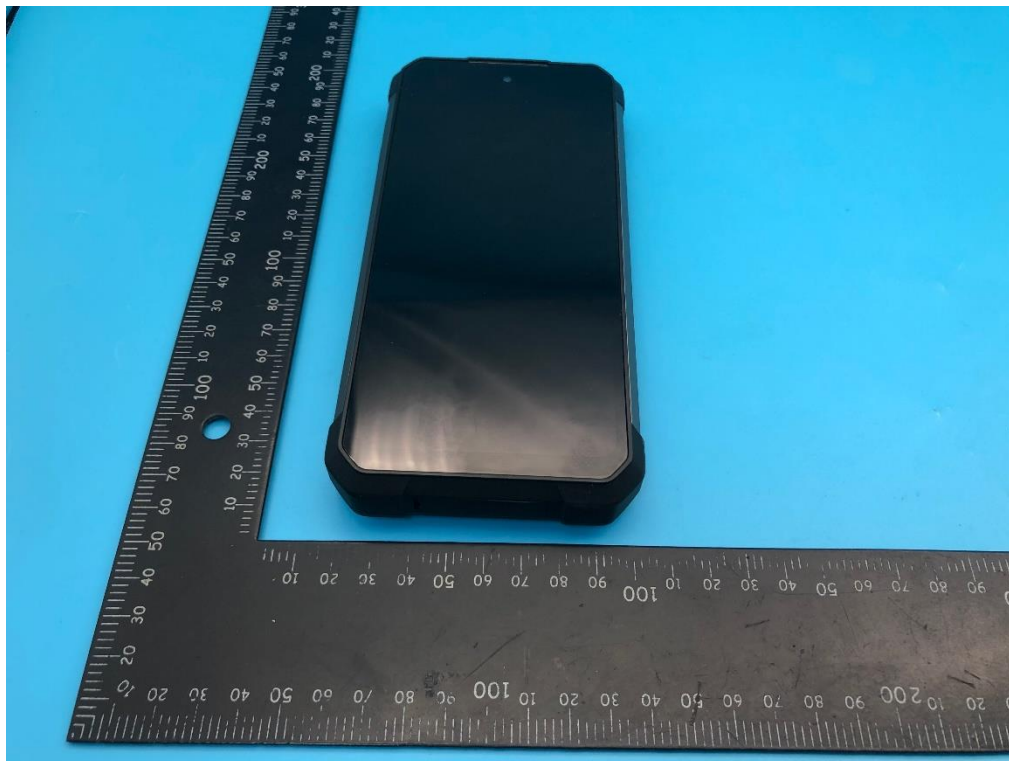


LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.94	22.84	22.58
15	1	37		22.89	23.05	22.75
15	1	74		22.75	22.9	22.9
15	36	0		21.79	21.92	21.66
15	36	18		21.86	22.04	21.85
15	36	39		21.76	22.1	21.86
15	75	0		21.8	22.07	21.76
15	1	0	16-QAM	21.97	22.21	21.79
15	1	38		21.88	22.38	21.89
15	1	75		21.8	22.3	22.1
15	36	0		20.68	20.88	20.67
15	36	18		20.8	21.02	20.83
15	36	39		20.68	21.07	20.87
15	75	0		20.76	20.98	20.69
20	1	0	QPSK	22.76	22.74	22.59
20	1	49		22.82	23.17	22.8
20	1	99		22.67	22.93	22.86
20	50	0		21.59	21.76	21.61
20	50	24		21.77	22.01	21.78
20	50	49		21.63	21.99	21.73
20	100	0		21.62	21.89	21.66
20	1	0	16-QAM	22.04	21.9	21.8
20	1	49		22.04	22.26	21.98
20	1	99		21.96	22.08	22.08
20	50	0		20.61	20.67	20.6
20	50	24		20.74	20.96	20.74
20	50	49		20.59	20.95	20.74
20	100	0		20.58	20.84	20.62

11. EUT and Test Setup Photo

11.1 EUT Photos

Front side



Back side





Right Edge



Left Edge





Top Edge

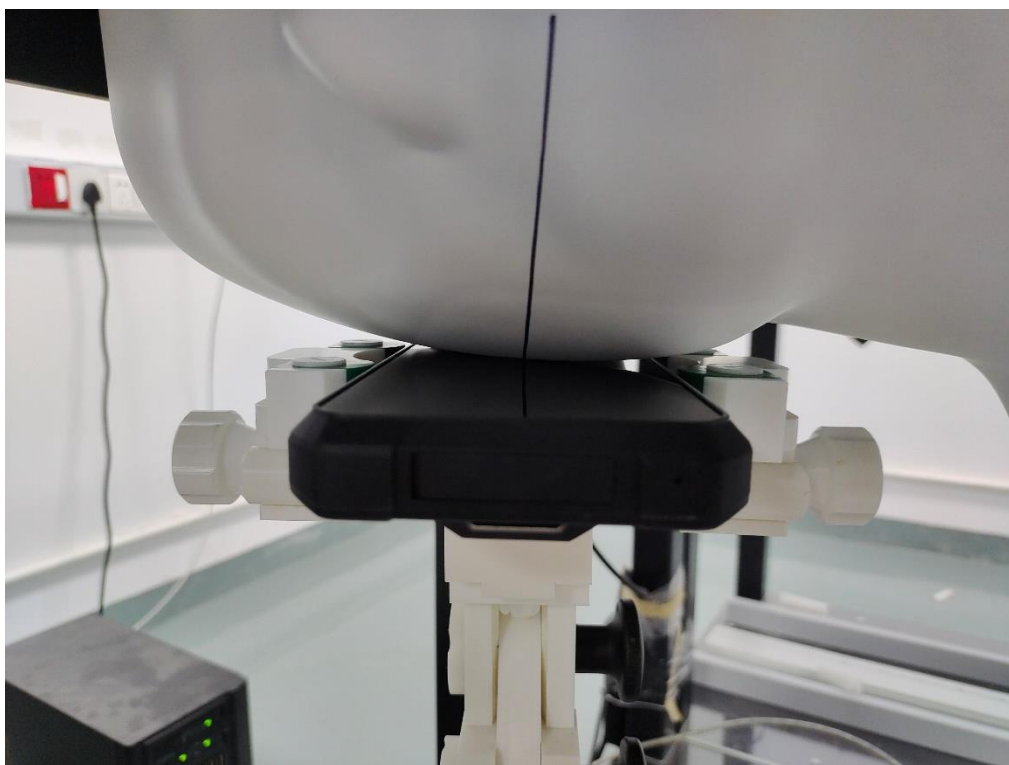


Bottom Edge

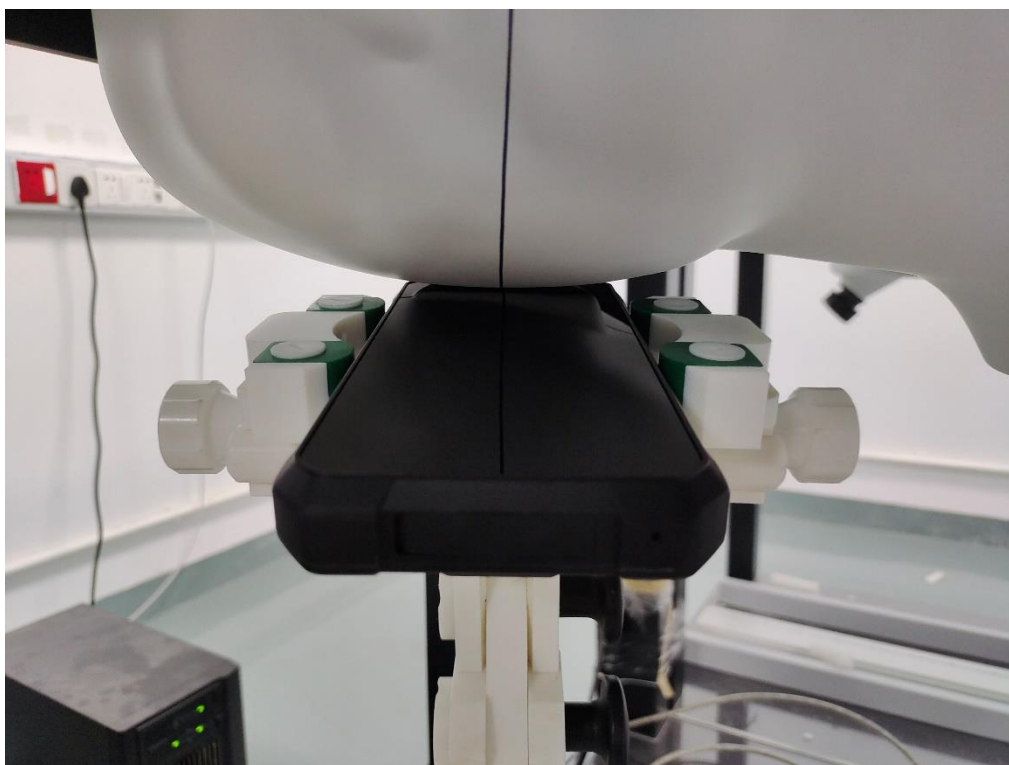


11.2 Setup Photos

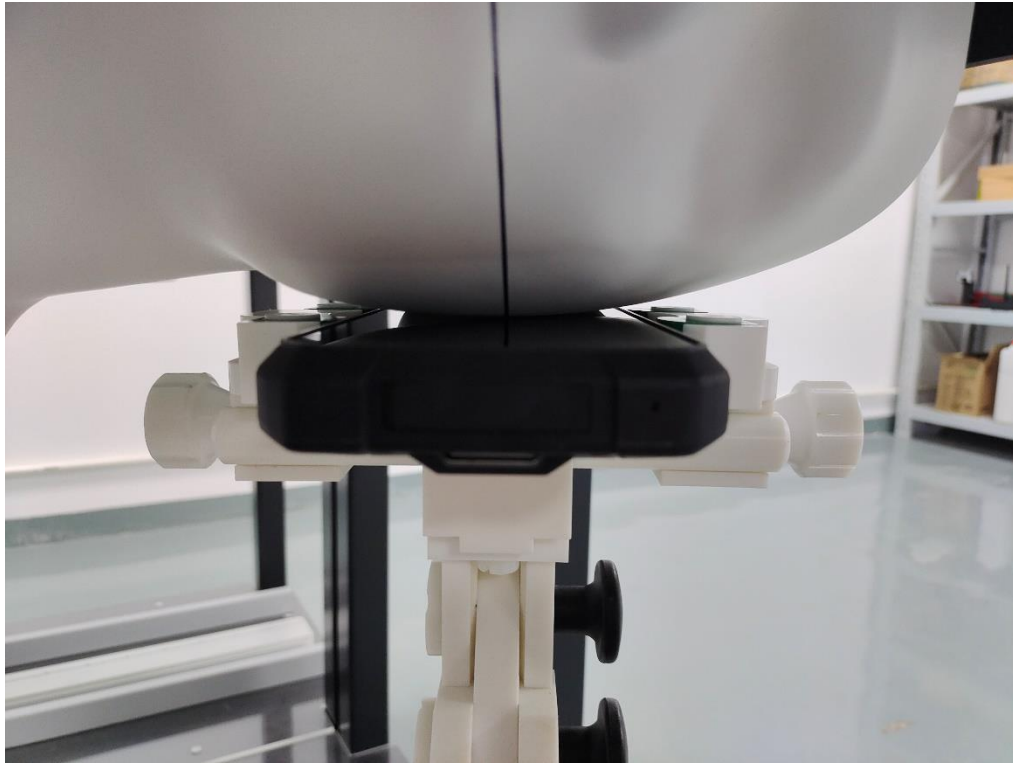
Right Touch



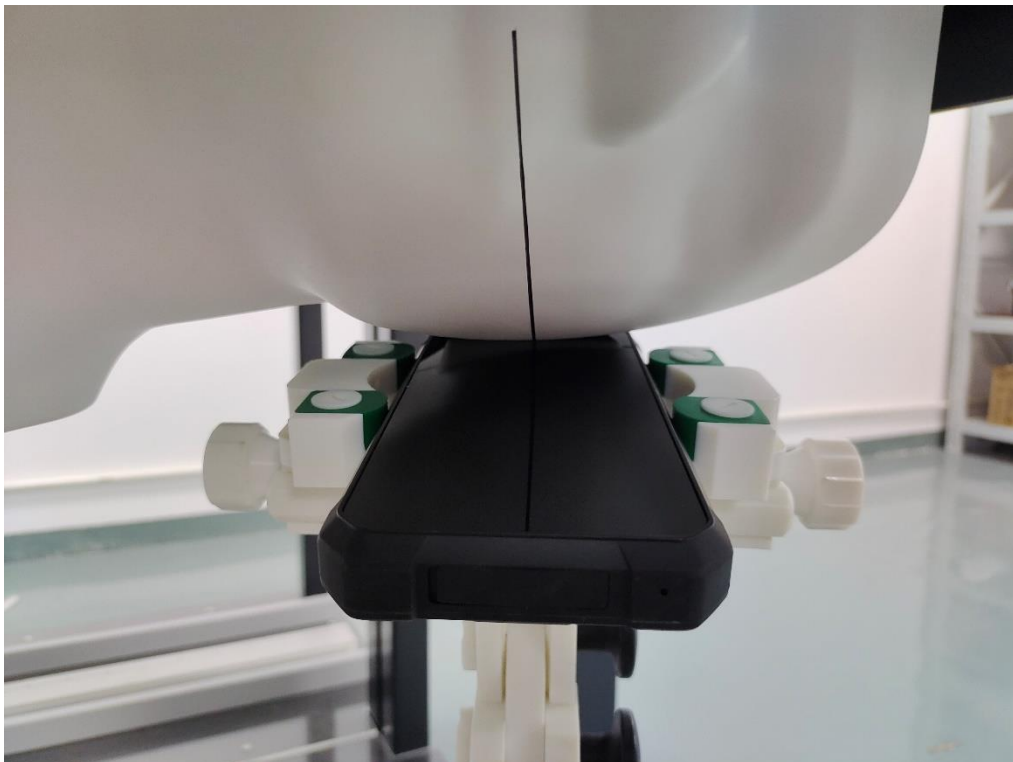
Right Tilt



Left Touch



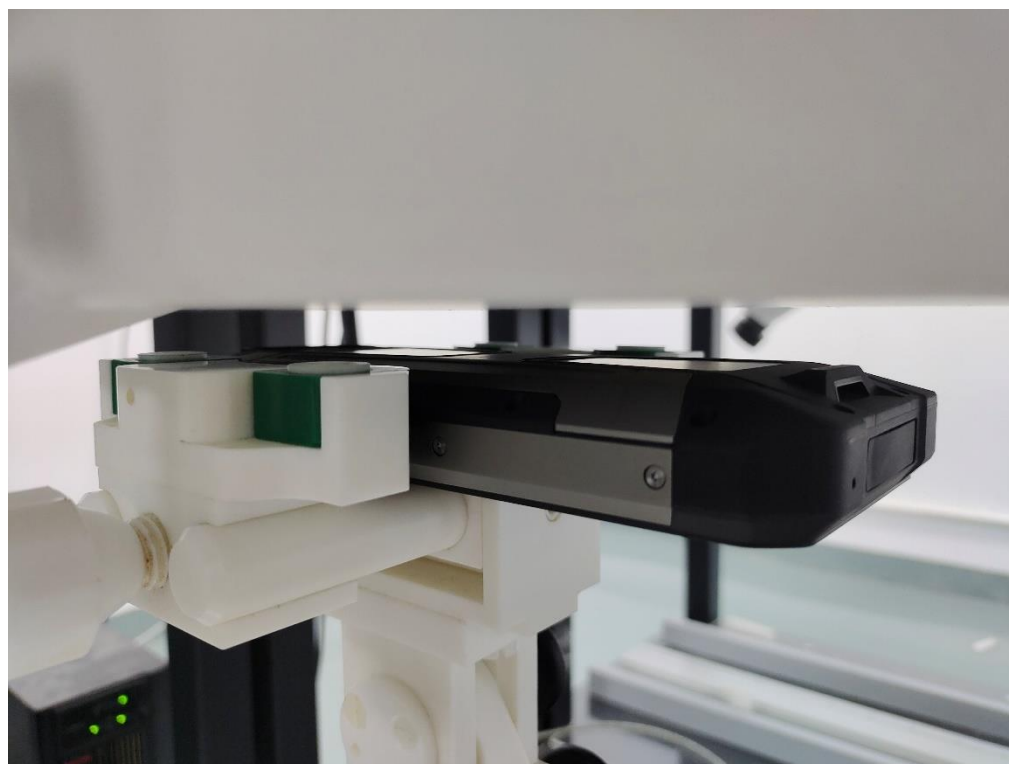
Left Tilt



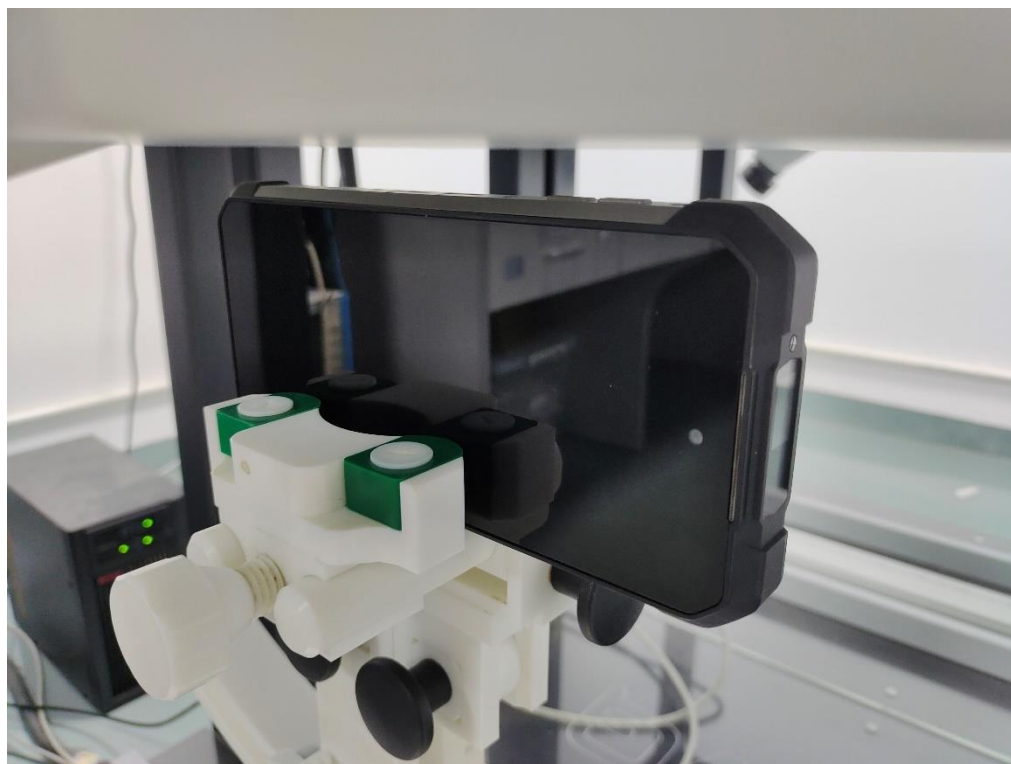
Body Front side (separation distance is 10mm)



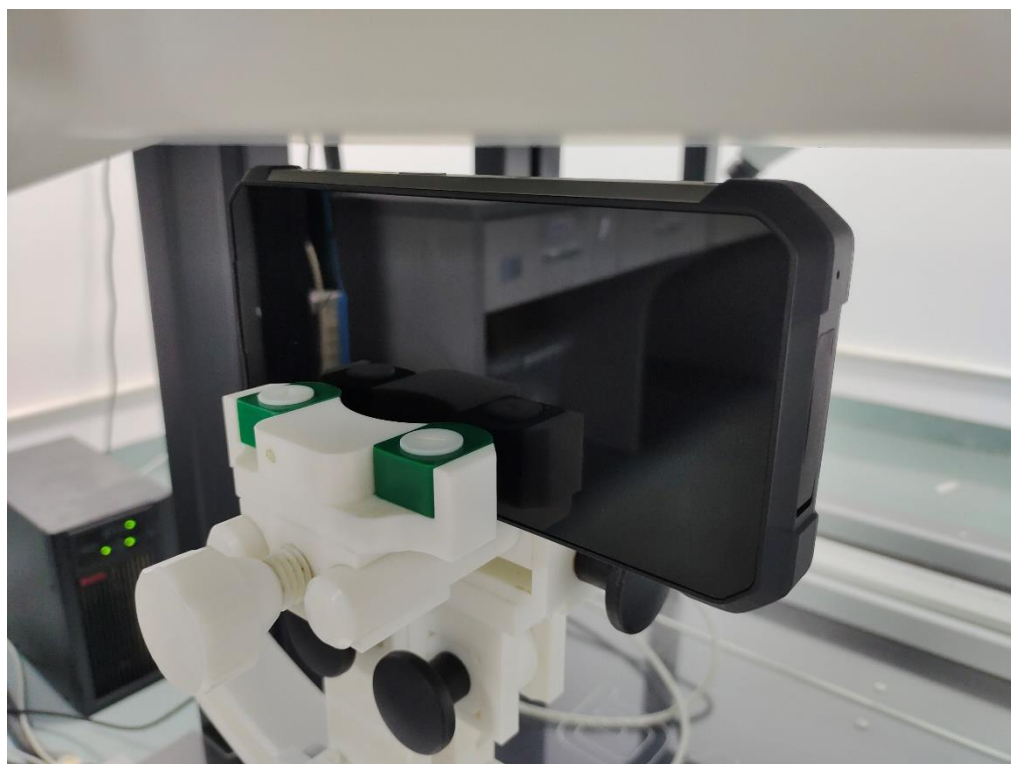
Body Back side (separation distance 10mm)



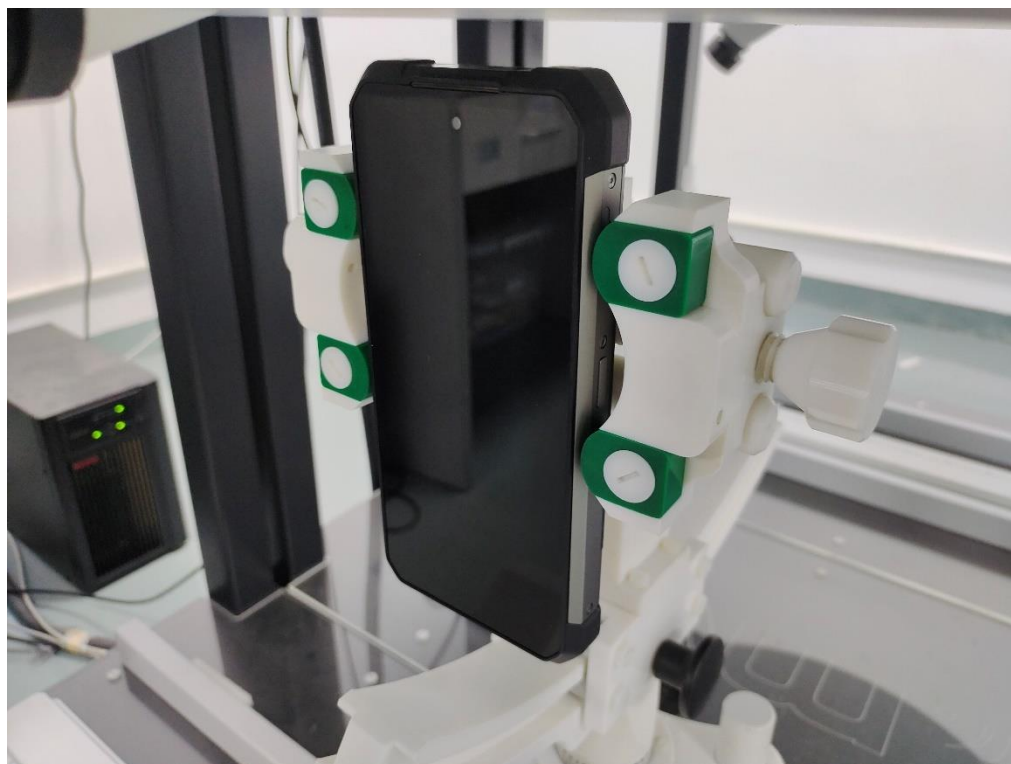
Body Left side (separation distance is 10mm)



Body Right side (separation distance is 10mm)



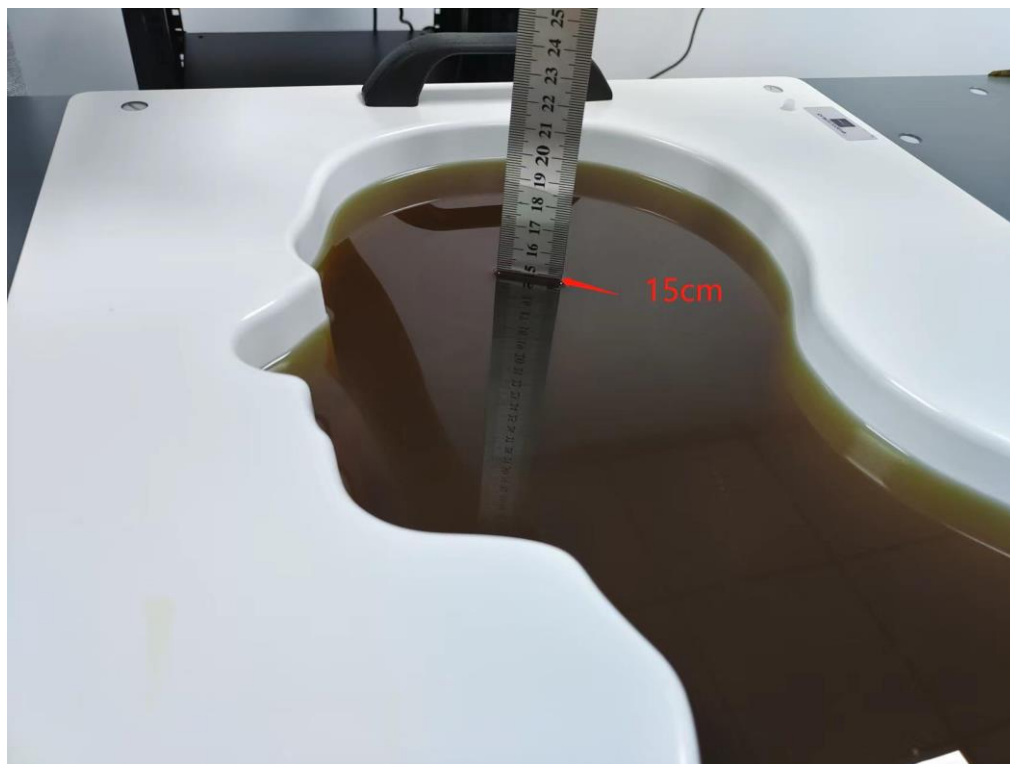
Body Top side (separation distance is 10mm)



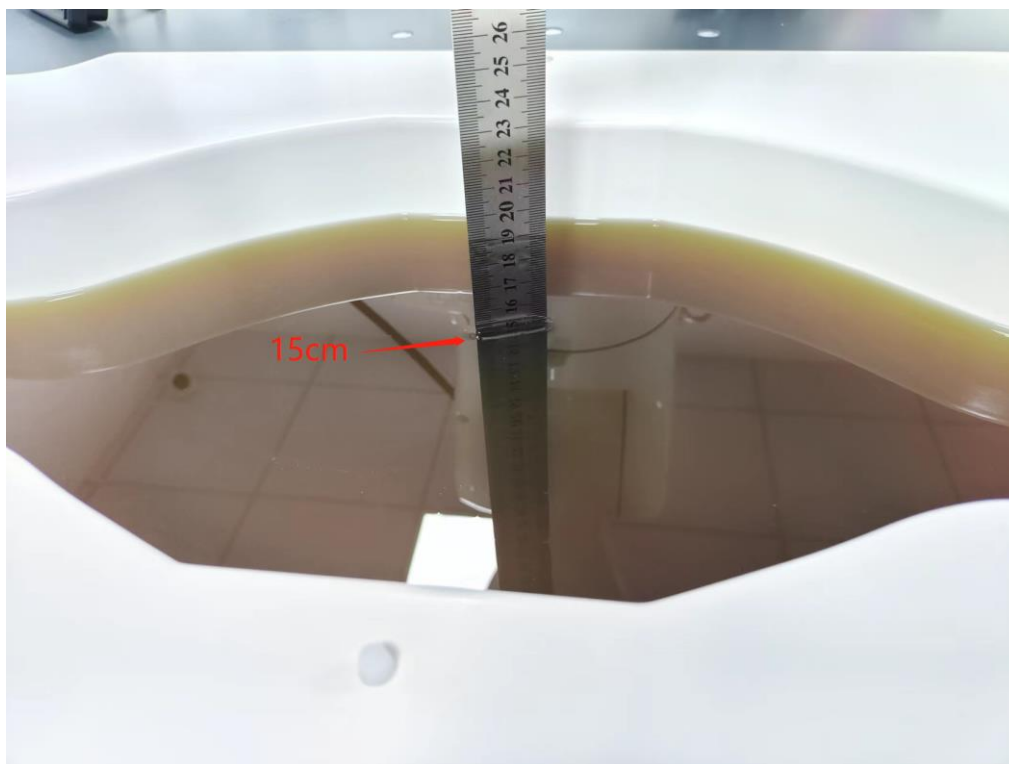
Body Bottom side (separation distance is 10mm)



Liquid depth (15 cm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

Band	Model	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM850	Voise	Right Cheek	824.2	0.094	-3.59	33.00	32.86	0.097	/
		Right Tilt	824.2	0.064	2.16	33.00	32.86	0.066	/
		Left Cheek	824.2	0.102	-3.85	33.00	32.86	0.105	1
		Left Tilt	824.2	0.077	2.58	33.00	32.86	0.080	/
PCS 1900	GSM	Right Cheek	1850.2	0.033	-1.89	30.50	30.17	0.036	/
		Right Tilt	1850.2	0.032	3.85	30.50	30.17	0.035	/
		Left Cheek	1850.2	0.045	-1.02	30.50	30.17	0.049	3
		Left Tilt	1850.2	0.033	-2.42	30.50	30.17	0.036	/
WCDMA Band II	RMC	Right Cheek	1907.6	0.086	-2.94	22.50	22.06	0.095	5
		Right Tilt	1907.6	0.071	2.98	22.50	22.06	0.079	/
		Left Cheek	1907.6	0.070	-1.01	22.50	22.06	0.077	/
		Left Tilt	1907.6	0.063	2.04	22.50	22.06	0.070	/
WCDMA Band IV	RMC	Right Cheek	1752.4	0.057	-1.09	22.50	22.31	0.060	/
		Right Tilt	1752.4	0.035	2.99	22.50	22.31	0.037	/
		Left Cheek	1752.4	0.075	0.02	22.50	22.31	0.078	7
		Left Tilt	1752.4	0.060	3.94	22.50	22.31	0.063	/
WCDMA Band V	RMC	Right Cheek	846.6	0.116	1.72	23.50	23.32	0.121	/
		Right Tilt	846.6	0.082	-1.51	23.50	23.32	0.085	/
		Left Cheek	846.6	0.119	-1.78	23.50	23.32	0.124	9
		Left Tilt	846.6	0.088	-0.05	23.50	23.32	0.092	/
CDMA	BC0	Right Cheek	836.52	0.047	-2.01	24.00	23.49	0.053	/
		Right Tilt	836.52	0.04	-3.67	24.00	23.49	0.045	/
		Left Cheek	836.52	0.049	3.27	24.00	23.49	0.055	11
		Left Tilt	836.52	0.042	2.64	24.00	23.49	0.047	/
CDMA	BC1	Right Cheek	1908.75	0.028	0.03	22.50	22.33	0.029	/
		Right Tilt	1908.75	0.023	3.99	22.50	22.33	0.024	/
		Left Cheek	1908.75	0.044	3.53	22.50	22.33	0.046	13
		Left Tilt	1908.75	0.038	-0.22	22.50	22.33	0.040	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scale d SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Right Cheek	1860	0.06	-2.53	23.5	23.07	0.066	15
			50	0	Right Cheek	1900	0.051	3.22	22.5	22.2	0.055	/
			1	0	Right Tilt	1860	0.046	3.26	23.5	23.07	0.051	/
			50	0	Right Tilt	1900	0.035	-1.00	22.5	22.2	0.038	/
			1	0	Left Cheek	1860	0.057	-2.09	23.5	23.07	0.063	/
			50	0	Left Cheek	1900	0.043	-0.48	22.5	22.2	0.046	/
			1	0	Left Tilt	1860	0.051	1.56	23.5	23.07	0.056	/
			50	0	Left Tilt	1900	0.038	-2.43	22.5	22.2	0.041	/
LTE Band 4	20M	QPSK	1	0	Right Cheek	1745	0.038	-0.09	23.5	23.14	0.041	/
			50	0	Right Cheek	1745	0.026	-0.85	22.5	22.04	0.029	/
			1	0	Right Tilt	1745	0.033	1.14	23.5	23.14	0.036	/
			50	0	Right Tilt	1745	0.02	2.28	22.5	22.04	0.022	/
			1	0	Left Cheek	1745	0.044	2.64	23.5	23.14	0.048	17
			50	0	Left Cheek	1745	0.035	-2.65	22.5	22.04	0.039	/
			1	0	Left Tilt	1745	0.034	-1.02	23.5	23.14	0.037	/
			50	0	Left Tilt	1745	0.029	1.08	22.5	22.04	0.032	/
LTE Band 5	10M	QPSK	1	0	Right Cheek	829	0.133	2.47	24.5	24.07	0.147	/
			25	0	Right Cheek	836.5	0.092	-1.68	23.5	23.16	0.099	/
			1	0	Right Tilt	829	0.106	-0.37	24.5	24.07	0.117	/
			25	0	Right Tilt	836.5	0.083	-3.23	23.5	23.16	0.090	/
			1	0	Left Cheek	829	0.135	-0.91	24.5	24.07	0.149	19
			25	0	Left Cheek	836.5	0.099	2.30	23.5	23.16	0.107	/
			1	0	Left Tilt	829	0.114	0.96	24.5	24.07	0.126	/
			25	0	Left Tilt	836.5	0.090	2.48	23.5	23.16	0.097	/
LTE Band 7	20M	QPSK	1	0	Right Cheek	2510	0.164	3.08	23	22.9	0.168	21
			50	0	Right Cheek	2510	0.118	3.96	22	21.66	0.128	/
			1	0	Right Tilt	2510	0.137	3.22	23	22.9	0.140	/
			50	0	Right Tilt	2510	0.097	-2.08	22	21.66	0.105	/
			1	0	Left Cheek	2510	0.132	-0.59	23	22.9	0.135	/
			50	0	Left Cheek	2510	0.103	3.56	22	21.66	0.111	/
			1	0	Left Tilt	2510	0.120	2.19	23	22.9	0.123	/
			50	0	Left Tilt	2510	0.089	-3.87	22	21.66	0.096	/



LTE Band 12	10M	QPSK	1	0	Right Cheek	711	0.102	-1.79	24.5	23.98	0.115	/
			25	0	Right Cheek	707.5	0.095	-2.38	23.5	22.98	0.107	/
			1	0	Right Tilt	711	0.093	-1.30	24.5	23.98	0.105	/
			25	0	Right Tilt	707.5	0.087	1.40	23.5	22.98	0.098	/
			1	0	Left Cheek	711	0.112	0.95	24.5	23.98	0.126	23
			25	0	Left Cheek	707.5	0.102	-1.50	23.5	22.98	0.115	/
			1	0	Left Tilt	711	0.106	0.80	24.5	23.98	0.119	/
			25	0	Left Tilt	707.5	0.097	2.36	23.5	22.98	0.109	/
LTE Band 13	10M	QPSK	1	0	Right Cheek	782	0.142	2.40	19.5	19.15	0.154	25
			25	0	Right Cheek	782	0.115	0.93	18	17.95	0.116	/
			1	0	Right Tilt	782	0.127	-0.90	19.5	19.15	0.138	/
			25	0	Right Tilt	782	0.101	-2.95	18	17.95	0.102	/
			1	0	Left Cheek	782	0.107	-2.92	19.5	19.15	0.116	/
			25	0	Left Cheek	782	0.094	-1.90	18	17.95	0.095	/
			1	0	Left Tilt	782	0.099	-3.83	19.5	19.15	0.107	/
			25	0	Left Tilt	782	0.082	1.65	18	17.95	0.083	/
LTE Band 17	10M	QPSK	1	0	Right Cheek	710	0.118	0.58	24.5	23.96	0.134	/
			25	0	Right Cheek	710	0.094	-2.27	23	22.87	0.097	/
			1	0	Right Tilt	710	0.103	-0.30	24.5	23.96	0.117	/
			25	0	Right Tilt	710	0.076	3.65	23	22.87	0.078	/
			1	0	Left Cheek	710	0.128	2.09	24.5	23.96	0.145	27
			25	0	Left Cheek	710	0.107	-0.79	23	22.87	0.110	/
			1	0	Left Tilt	710	0.118	2.52	24.5	23.96	0.134	/
			25	0	Left Tilt	710	0.092	-0.17	23	22.87	0.095	/
LTE Band 25	20M	QPSK	1	0	Right Cheek	1905	0.081	-2.63	23.5	23.06	0.090	29
			50	0	Right Cheek	1860	0.065	1.14	22.5	22.03	0.072	/
			1	0	Right Tilt	1905	0.072	-0.12	23.5	23.06	0.080	/
			50	0	Right Tilt	1860	0.058	0.53	22.5	22.03	0.065	/
			1	0	Left Cheek	1905	0.027	1.28	23.5	23.06	0.030	/
			50	0	Left Cheek	1860	0.020	-2.04	22.5	22.03	0.022	/
			1	0	Left Tilt	1905	0.023	-2.30	23.5	23.06	0.025	/
			50	0	Left Tilt	1860	0.018	1.52	22.5	22.03	0.020	/
LTE Band 26	15M	QPSK	1	0	Right Cheek	831.5	0.127	3.98	24	23.87	0.131	31
			36	0	Right Cheek	831.5	0.091	-0.55	23.5	22.99	0.102	/
			1	0	Right Tilt	831.5	0.116	-2.68	24	23.87	0.120	/
			36	0	Right Tilt	831.5	0.085	1.20	23.5	22.99	0.096	/
			1	0	Left Cheek	831.5	0.091	0.15	24	23.87	0.094	/
			36	0	Left Cheek	831.5	0.076	1.06	23.5	22.99	0.085	/
			1	0	Left Tilt	831.5	0.083	2.39	24	23.87	0.086	/
			36	0	Left Tilt	831.5	0.070	-0.81	23.5	22.99	0.079	/



LTE Band 38	20M	QPSK	1	0	Right Cheek	2580	0.075	2.93	23.5	23.23	0.080	/
			50	0	Right Cheek	2580	0.063	0.99	22.5	22.19	0.068	/
			1	0	Right Tilt	2580	0.069	-3.10	23.5	23.23	0.073	/
			50	0	Right Tilt	2580	0.055	2.64	22.5	22.19	0.059	/
			1	0	Left Cheek	2580	0.170	-3.46	23.5	23.23	0.181	33
			50	0	Left Cheek	2580	0.133	-0.15	22.5	22.19	0.143	/
			1	0	Left Tilt	2580	0.156	-2.48	23.5	23.23	0.166	/
			50	0	Left Tilt	2580	0.109	-3.79	22.5	22.19	0.117	/
LTE Band 40	20M	QPSK	1	0	Right Cheek	2350	0.047	-1.50	14	14.46	0.042	/
			50	0	Right Cheek	2350	0.035	0.29	13	13.31	0.033	/
			1	0	Right Tilt	2350	0.042	1.05	14	14.46	0.038	/
			50	0	Right Tilt	2350	0.028	1.91	13	13.31	0.026	/
			1	0	Left Cheek	2350	0.059	-0.80	14	14.46	0.053	35
			50	0	Left Cheek	2350	0.046	-2.18	13	13.31	0.043	/
			1	0	Left Tilt	2350	0.055	2.42	14	14.46	0.049	/
			50	0	Left Tilt	2350	0.040	1.74	13	13.31	0.037	/
LTE Band 41	20M	QPSK	1	0	Right Cheek	2680	0.091	0.42	23	22.89	0.093	/
			50	0	Right Cheek	2680	0.078	1.51	22	21.75	0.083	/
			1	0	Right Tilt	2680	0.083	-3.30	23	22.89	0.085	/
			50	0	Right Tilt	2680	0.071	3.74	22	21.75	0.075	/
			1	0	Left Cheek	2680	0.174	0.21	23	22.89	0.178	37
			50	0	Left Cheek	2680	0.135	1.62	22	21.75	0.143	/
			1	0	Left Tilt	2680	0.142	-3.63	23	22.89	0.146	/
			50	0	Left Tilt	2680	0.112	0.12	22	21.75	0.119	/
LTE Band 66	20M	QPSK	1	0	Right Cheek	1745	0.060	-2.84	23.5	23.17	0.065	39
			50	0	Right Cheek	1745	0.037	-0.91	22.5	22.01	0.041	/
			1	0	Right Tilt	1745	0.052	3.59	23.5	23.17	0.056	/
			50	0	Right Tilt	1745	0.035	2.08	22.5	22.01	0.039	/
			1	0	Left Cheek	1745	0.050	3.02	23.5	23.17	0.054	/
			50	0	Left Cheek	1745	0.033	-1.17	22.5	22.01	0.037	/
			1	0	Left Tilt	1745	0.045	-2.31	23.5	23.17	0.049	/
			50	0	Left Tilt	1745	0.029	0.29	22.5	22.01	0.032	/



Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
2.4G WLAN	802.11b	Right Cheek	2442	0.189	2.83	16.00	15.71	0.202	/
		Right Tilt	2442	0.221	3.42	16.00	15.71	0.236	/
		Left Cheek	2442	0.203	3.01	16.00	15.71	0.217	/
		Left Tilt	2442	0.256	-1.06	16.00	15.71	0.274	41
BT	GFSK	Right Cheek	2441	0.177	-1.31	3.50	3.12	0.193	/
		Right Tilt	2441	0.234	1.06	3.50	3.12	0.255	/
		Left Cheek	2441	0.192	3.71	3.50	3.12	0.210	/
		Left Tilt	2441	0.235	2.98	3.50	3.12	0.256	43
5.2G WLAN	802.11n-HT20	Right Cheek	5180	0.295	-0.63	13.50	13.05	0.327	/
		Right Tilt	5180	0.381	0.14	13.50	13.05	0.423	/
		Left Cheek	5180	0.347	-2.76	13.50	13.05	0.385	/
		Left Tilt	5180	0.449	-3.21	13.50	13.05	0.498	45
5.3G WLAN	802.11a	Right Cheek	5300	0.387	2.56	13.50	13.43	0.393	/
		Right Tilt	5300	0.446	2.34	13.50	13.43	0.453	/
		Left Cheek	5300	0.425	-3.76	13.50	13.43	0.432	/
		Left Tilt	5300	0.511	-3.19	13.50	13.43	0.519	47
5.6G WLAN	802.11n-HT20	Right Cheek	5700	0.342	-3.53	14.50	14.00	0.384	/
		Right Tilt	5700	0.427	3.59	14.50	14.00	0.479	/
		Left Cheek	5700	0.402	3.91	14.50	14.00	0.451	/
		Left Tilt	5700	0.476	-3.88	14.50	14.00	0.534	49
5.8G WLAN	802.11n-HT20	Right Cheek	5785	0.365	-1.63	14.50	14.42	0.372	/
		Right Tilt	5785	0.45	3.66	14.50	14.42	0.458	/
		Left Cheek	5785	0.463	-1.41	14.50	14.42	0.472	/
		Left Tilt	5745	0.653	1.25	14.50	14.23	0.695	/
		Left Tilt	5785	0.769	-1.04	14.50	14.42	0.783	51
		Left Tilt	5825	0.588	1.41	14.50	14.17	0.634	/

Note:

1. Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor
2. Per KDB 865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg



12.2 Body-worn and Hotspot SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM850	GPRS Data-4 Slot	Front Side	824.2	0.162	-1.14	30.00	29.48	0.183	/
		Back Side	824.2	0.28	-1.28	30.00	29.48	0.316	2
		Left Side	824.2	0.14	-1.43	30.00	29.48	0.158	/
		Right Side	824.2	0.083	-2.46	30.00	29.48	0.094	/
		Bottom Side	824.2	0.244	3.28	30.00	29.48	0.275	/
PCS 1900	GPRS Data-2 Slot	Front Side	1850.2	0.062	0.73	29.50	29.31	0.065	/
		Back Side	1850.2	0.174	-1.53	29.50	29.31	0.182	4
		Left Side	1850.2	0.068	3.61	29.50	29.31	0.071	/
		Right Side	1850.2	0.116	2.18	29.50	29.31	0.121	/
		Bottom Side	1850.2	0.152	1.14	29.50	29.31	0.159	/
WCDMA Band II	RMC	Front Side	1907.6	0.247	3.24	22.50	22.06	0.273	/
		Back Side	1907.6	0.470	-0.15	22.50	22.06	0.520	/
		Left Side	1907.6	0.134	2.85	22.50	22.06	0.148	/
		Right Side	1907.6	0.218	2.17	22.50	22.06	0.241	/
		Bottom Side	1907.6	0.501	0.43	22.50	22.06	0.554	6
WCDMA Band IV	RMC	Front Side	1752.4	0.262	-3.23	22.50	22.31	0.274	/
		Back Side	1752.4	0.374	-3.42	22.50	22.31	0.391	/
		Left Side	1752.4	0.128	2.82	22.50	22.31	0.134	/
		Right Side	1752.4	0.215	-2.81	22.50	22.31	0.225	/
		Bottom Side	1752.4	0.414	0.04	22.50	22.31	0.433	8
WCDMA Band V	RMC	Front Side	846.6	0.135	3.80	23.50	23.32	0.141	/
		Back Side	846.6	0.214	-3.39	23.50	23.32	0.223	10
		Left Side	846.6	0.100	2.32	23.50	23.32	0.104	/
		Right Side	846.6	0.062	-3.13	23.50	23.32	0.065	/
		Bottom Side	846.6	0.156	-2.82	23.50	23.32	0.163	/
CDMA	BC0	Front Side	836.52	0.015	-3.27	24.00	23.49	0.017	/
		Back Side	836.52	0.022	0.09	24.00	23.49	0.025	/
		Left Side	836.52	0.017	-2.34	24.00	23.49	0.019	/
		Right Side	836.52	0.013	3.83	24.00	23.49	0.015	/
		Bottom Side	836.52	0.048	3.18	24.00	23.49	0.054	12
CDMA	BC1	Front Side	1908.75	0.037	1.82	22.50	22.33	0.038	/
		Back Side	1908.75	0.053	1.70	22.50	22.33	0.055	/
		Left Side	1908.75	0.024	3.13	22.50	22.33	0.025	/
		Right Side	1908.75	0.035	-2.03	22.50	22.33	0.036	/
		Bottom Side	1908.75	0.078	2.01	22.50	22.33	0.081	14



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Front side	1860	0.073	-0.84	23.5	23.07	0.081	/
			50	0	Front side	1900	0.058	-3.71	22.5	22.2	0.062	/
			1	0	Back Side	1860	0.535	0.89	23.5	23.07	0.591	16
			50	0	Back Side	1900	0.396	2.53	22.5	22.2	0.424	/
			1	0	Left Side	1860	0.163	-3.67	23.5	23.07	0.180	/
			50	0	Left Side	1900	0.122	-1.13	22.5	22.2	0.131	/
			1	0	Right Side	1860	0.271	2.56	23.5	23.07	0.299	/
			50	0	Right Side	1900	0.192	-3.35	22.5	22.2	0.206	/
			1	0	Bottom Side	1860	0.51	1.99	23.5	23.07	0.563	/
			50	0	Bottom Side	1900	0.388	2.33	22.5	22.2	0.416	/
LTE Band 4	20M	QPSK	1	0	Front side	1745	0.066	-3.97	23.5	23.14	0.072	/
			50	0	Front side	1745	0.048	-3.42	22.5	22.04	0.053	/
			1	0	Back Side	1745	0.447	-3.06	23.5	23.14	0.486	18
			50	0	Back Side	1745	0.329	-3.32	22.5	22.04	0.366	/
			1	0	Left Side	1745	0.164	-1.49	23.5	23.14	0.178	/
			50	0	Left Side	1745	0.123	3.08	22.5	22.04	0.137	/
			1	0	Right Side	1745	0.248	2.04	23.5	23.14	0.269	/
			50	0	Right Side	1745	0.173	-1.51	22.5	22.04	0.192	/
			1	0	Bottom Side	1745	0.412	0.42	23.5	23.14	0.448	/
			50	0	Bottom Side	1745	0.286	-2.43	22.5	22.04	0.318	/
LTE Band 5	10M	QPSK	1	0	Front side	829	0.131	1.16	24.5	24.07	0.145	/
			25	0	Front side	836.5	0.096	-3.66	23.5	23.16	0.104	/
			1	0	Back Side	829	0.217	0.59	24.5	24.07	0.240	20
			25	0	Back Side	836.5	0.162	-1.57	23.5	23.16	0.175	/
			1	0	Left Side	829	0.114	-1.64	24.5	24.07	0.126	/
			25	0	Left Side	836.5	0.083	-3.85	23.5	23.16	0.090	/
			1	0	Right Side	829	0.087	2.49	24.5	24.07	0.096	/
			25	0	Right Side	836.5	0.062	2.39	23.5	23.16	0.067	/
			1	0	Bottom Side	829	0.177	3.02	24.5	24.07	0.195	/
			25	0	Bottom Side	836.5	0.125	-0.89	23.5	23.16	0.135	/



LTE Band 7	20M	QPSK	1	0	Front side	2510	0.216	1.84	23	22.9	0.221	/
			50	0	Front side	2510	0.167	3.52	22	21.66	0.181	/
			1	0	Back Side	2510	0.594	2.45	23	22.9	0.608	22
			50	0	Back Side	2510	0.413	-2.47	22	21.66	0.447	/
			1	0	Left Side	2510	0.168	1.94	23	22.9	0.172	/
			50	0	Left Side	2510	0.143	-0.72	22	21.66	0.155	/
			1	0	Right Side	2510	0.205	1.95	23	22.9	0.210	/
			50	0	Right Side	2510	0.317	3.77	22	21.66	0.343	/
			1	0	Bottom Side	2510	0.452	-1.69	23	22.9	0.463	/
			50	0	Bottom Side	2510	0.294	-3.50	22	21.66	0.318	/
LTE Band 12	10M	QPSK	1	0	Front side	711	0.116	3.87	24.5	23.98	0.131	/
			25	0	Front side	707.5	0.092	3.74	23.5	22.98	0.104	/
			1	0	Back Side	711	0.207	1.94	24.5	23.98	0.233	24
			25	0	Back Side	707.5	0.152	-2.68	23.5	22.98	0.171	/
			1	0	Left Side	711	0.100	0.97	24.5	23.98	0.113	/
			25	0	Left Side	707.5	0.076	-1.08	23.5	22.98	0.086	/
			1	0	Right Side	711	0.083	-3.96	24.5	23.98	0.094	/
			25	0	Right Side	707.5	0.058	2.37	23.5	22.98	0.065	/
			1	0	Bottom Side	711	0.089	1.62	24.5	23.98	0.100	/
			25	0	Bottom Side	707.5	0.063	0.66	23.5	22.98	0.071	/
LTE Band 13	10M	QPSK	1	0	Front side	782	0.121	2.77	19.5	19.15	0.131	/
			25	0	Front side	782	0.078	2.59	18	17.95	0.079	/
			1	0	Back Side	782	0.196	2.53	19.5	19.15	0.212	26
			25	0	Back Side	782	0.122	-1.56	18	17.95	0.123	/
			1	0	Left Side	782	0.073	1.74	19.5	19.15	0.079	/
			25	0	Left Side	782	0.045	-3.28	18	17.95	0.046	/
			1	0	Right Side	782	0.094	2.33	19.5	19.15	0.102	/
			25	0	Right Side	782	0.075	0.58	18	17.95	0.076	/
			1	0	Bottom Side	782	0.118	-1.30	19.5	19.15	0.128	/
			25	0	Bottom Side	782	0.090	-2.82	18	17.95	0.091	/
LTE Band 17	10M	QPSK	1	0	Front side	710	0.165	-3.70	24.5	23.96	0.187	/
			25	0	Front side	710	0.124	-3.58	23	22.87	0.128	/
			1	0	Back Side	710	0.228	2.59	24.5	23.96	0.258	28
			25	0	Back Side	710	0.177	1.13	23	22.87	0.182	/
			1	0	Left Side	710	0.126	-1.56	24.5	23.96	0.143	/
			25	0	Left Side	710	0.097	2.70	23	22.87	0.100	/
			1	0	Right Side	710	0.085	-0.70	24.5	23.96	0.096	/
			25	0	Right Side	710	0.062	-3.31	23	22.87	0.064	/
			1	0	Bottom Side	710	0.088	0.28	24.5	23.96	0.100	/
			25	0	Bottom Side	710	0.073	-3.49	23	22.87	0.075	/



LTE Band 25	20M	QPSK	1	0	Front side	1905	0.473	0.63	23.5	23.06	0.523	/
			50	0	Front side	1860	0.325	-3.64	22.5	22.03	0.362	/
			1	0	Back Side	1882.5	0.853	2.42	23.5	22.99	0.959	/
			1	0	Back Side	1860	0.921	-2.55	23.5	22.98	1.038	/
			1	0	Back Side	1905	1.097	2.19	23.5	23.06	1.214	30
			50	0	Back Side	1860	0.712	2.40	22.5	22.03	0.793	/
			1	0	Left Side	1905	0.183	-2.05	23.5	23.06	0.203	/
			50	0	Left Side	1860	0.140	3.14	22.5	22.03	0.156	/
			1	0	Right Side	1905	0.372	-1.38	23.5	23.06	0.412	/
			50	0	Right Side	1860	0.314	-1.29	22.5	22.03	0.350	/
			1	0	Bottom Side	1905	0.619	-0.95	23.5	23.06	0.685	/
			50	0	Bottom Side	1860	0.484	-3.22	22.5	22.03	0.539	/
LTE Band 26	15M	QPSK	1	0	Front side	831.5	0.090	-3.91	24	23.87	0.093	/
			36	0	Front side	831.5	0.073	1.28	23.5	22.99	0.082	/
			1	0	Back Side	831.5	0.213	2.67	24	23.87	0.219	32
			36	0	Back Side	831.5	0.148	-2.47	23.5	22.99	0.166	/
			1	0	Left Side	831.5	0.107	3.10	24	23.87	0.110	/
			36	0	Left Side	831.5	0.082	-3.81	23.5	22.99	0.092	/
			1	0	Right Side	831.5	0.064	-1.86	24	23.87	0.066	/
			36	0	Right Side	831.5	0.055	-0.18	23.5	22.99	0.062	/
			1	0	Bottom Side	831.5	0.170	-0.87	24	23.87	0.175	/
			36	0	Bottom Side	831.5	0.122	3.22	23.5	22.99	0.137	/
LTE Band 38	20M	QPSK	1	0	Front side	2580	0.256	1.14	23.5	23.23	0.272	/
			50	0	Front side	2580	0.197	-0.46	22.5	22.19	0.212	/
			1	0	Back Side	2580	0.408	3.38	23.5	23.23	0.434	34
			50	0	Back Side	2580	0.314	-1.89	22.5	22.19	0.337	/
			1	0	Left Side	2580	0.111	1.22	23.5	23.23	0.118	/
			50	0	Left Side	2580	0.098	-2.26	22.5	22.19	0.105	/
			1	0	Right Side	2580	0.200	1.93	23.5	23.23	0.213	/
			50	0	Right Side	2580	0.165	3.77	22.5	22.19	0.177	/
			1	0	Bottom Side	2580	0.348	0.29	23.5	23.23	0.370	/
			50	0	Bottom Side	2580	0.273	-0.08	22.5	22.19	0.293	/



LTE Band 40	20M	QPSK	1	0	Front side	2350	0.186	1.74	14	14.46	0.167	/
			50	0	Front side	2350	0.141	3.22	13	13.31	0.131	/
			1	0	Back Side	2350	0.250	-2.14	14	14.46	0.225	36
			50	0	Back Side	2350	0.213	-1.07	13	13.31	0.198	/
			1	0	Left Side	2350	0.095	-3.78	14	14.46	0.085	/
			50	0	Left Side	2350	0.078	3.93	13	13.31	0.073	/
			1	0	Right Side	2350	0.132	3.10	14	14.46	0.119	/
			50	0	Right Side	2350	0.100	-2.10	13	13.31	0.093	/
			1	0	Bottom Side	2350	0.225	-0.45	14	14.46	0.202	/
			50	0	Bottom Side	2350	0.168	3.37	13	13.31	0.156	/
LTE Band 41	20M	QPSK	1	0	Front side	2680	0.163	3.88	23	22.89	0.167	/
			50	0	Front side	2680	0.122	-0.24	22	21.75	0.129	/
			1	0	Back Side	2680	0.405	-1.00	23	22.89	0.415	38
			50	0	Back Side	2680	0.285	-3.16	22	21.75	0.302	/
			1	0	Left Side	2680	0.106	-1.99	23	22.89	0.109	/
			50	0	Left Side	2680	0.090	0.80	22	21.75	0.095	/
			1	0	Right Side	2680	0.146	-3.45	23	22.89	0.150	/
			50	0	Right Side	2680	0.110	-0.07	22	21.75	0.117	/
			1	0	Bottom Side	2680	0.257	0.98	23	22.89	0.264	/
			50	0	Bottom Side	2680	0.195	-1.61	22	21.75	0.207	/
LTE Band 66	20M	QPSK	1	0	Front side	1745	0.126	2.51	23.5	23.17	0.136	/
			50	0	Front side	1745	0.097	3.56	22.5	22.01	0.109	/
			1	0	Back Side	1745	0.412	1.73	23.5	23.17	0.445	40
			50	0	Back Side	1745	0.330	-1.99	22.5	22.01	0.369	/
			1	0	Left Side	1745	0.146	3.49	23.5	23.17	0.158	/
			50	0	Left Side	1745	0.112	3.36	22.5	22.01	0.125	/
			1	0	Right Side	1745	0.213	3.11	23.5	23.17	0.230	/
			50	0	Right Side	1745	0.175	-0.89	22.5	22.01	0.196	/
			1	0	Bottom Side	1745	0.234	-3.98	23.5	23.17	0.252	/
			50	0	Bottom Side	1745	0.189	-3.85	22.5	22.01	0.212	/



Band	Model	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
2.4GHz WLAN	802.11b	Front Side	2442	0.118	1.99	16.00	15.71	0.126	42
		Back Side	2442	0.094	1.58	16.00	15.71	0.100	/
		Right Side	2442	0.05	-1.34	16.00	15.71	0.053	/
		Top Side	2442	0.088	2.86	16.00	15.71	0.094	/
BT	GFSK	Front Side	2441	0.08	2.27	3.50	3.12	0.087	/
		Back Side	2441	0.096	0.65	3.50	3.12	0.105	/
		Right Side	2441	0.062	-3.55	3.50	3.12	0.068	/
		Top Side	2441	0.111	-3.90	3.50	3.12	0.121	44
5.2GHz WLAN	802.11n-HT20	Front Side	5180	0.152	-3.10	13.50	13.05	0.169	/
		Back Side	5180	0.137	0.50	13.50	13.05	0.152	/
		Right Side	5180	0.053	3.22	13.50	13.05	0.059	/
		Top Side	5180	0.226	-3.78	13.50	13.05	0.251	46
5.3GHz WLAN	802.11a	Front Side	5300	0.159	-2.82	13.50	13.43	0.162	/
		Back Side	5300	0.114	-0.67	13.50	13.43	0.116	/
		Right Side	5300	0.065	0.19	13.50	13.43	0.066	/
		Top Side	5300	0.294	0.39	13.50	13.43	0.299	48
5.6GHz WLAN	802.11n-HT20	Front Side	5700	0.243	0.29	14.50	14.00	0.273	/
		Back Side	5700	0.199	3.68	14.50	14.00	0.223	/
		Right Side	5700	0.087	2.15	14.50	14.00	0.098	/
		Top Side	5700	0.268	-1.50	14.50	14.00	0.301	50
5.8GHz WLAN	802.11n-HT20	Front Side	5785	0.354	1.60	14.50	14.42	0.361	/
		Back Side	5785	0.264	-3.69	14.50	14.42	0.269	/
		Right Side	5785	0.1	3.86	14.50	14.42	0.102	/
		Top Side	5785	0.373	3.60	14.50	14.42	0.380	52

Note:

- The test separation of all above table is 5mm.
- Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



Repeated SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)
LTE Band 25	20M	QPSK	1	0	Back Side	1882.5	0.811	2.62	23.5	22.99	0.912
			1	0	Back Side	1860	0.908	0.51	23.5	22.98	1.024
			1	0	Back Side	1905	1.062	3.64	23.5	23.06	1.176

Repeated SAR measurement

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg) 1g (W/Kg)	1 st Repeated SAR 1g	Ratio
LTE Band 25	20M	QPSK	1	0	Back Side	1882.5	0.853	0.811	1.051
			1	0	Back Side	1860	0.921	0.908	1.014
			1	0	Back Side	1905	1.097	1.062	1.032

Note:

1. Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/Kg.
2. Per KDB 865664 D01,if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/Kg, only one repeated measurement is required.
3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/Kg.
4. The ratio is the difference in percentage between original and repeated measured SAR.