

FCC SAR EVALUATION REPORT

**In accordance with the requirements of
FCC 47 CFR Part 2(2.1093) and
IEEE Std 1528-2013**

Product Name : 4G Smart Watch

Brand Name : LAGENIO

Model Name : K9

Family Model : L47Q

Report No. : N25122405006E

FCC ID : 2BSSA-K9

Prepared for

HK LAGENIO TECHNOLOGY CO.,LIMITED

RM1710 17/F THE CLOUD 111 TUNG CHAU STREET TAI KOK TSUI HK

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District,
Shenzhen, Guangdong, People's Republic of China

Tel. 0755-23200050 Website: <http://www.ntek.org.cn>

TEST RESULT CERTIFICATION**Applicant's name** HK LAGENIO TECHNOLOGY CO.,LIMITED

Address RM1710 17/F THE CLOUD 111 TUNG CHAU STREET TAI KOK TSUI HK

Manufacturer's Name . SHENZHEN LAGENIO TECHNOLOGY CO.,LIMITEDAddress Floor 12th, Block B, Longhua Digital Innovation Center, North Station
Community,Minzhi Street, Longhua District, Shenzhen,China**Product description**

Product name 4G Smart Watch

Brand Name LAGENIO

Model and/or type
reference K9

Family Model L47Q

FCC 47 CFR Part 2(2.1093)

Standards IEEE Std 1528-2013

Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093). The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK, this document may be altered or revised by Shenzhen NTEK, personal only, and shall be noted in the revision of the document.

Test Sample Number S2512250016-1#

Date of Test

Date (s) of performance of tests.. Dec. 27, 2025~ Jan. 07, 2026

Date of Issue..... Jan. 21, 2026

Test Result..... **Pass**Prepared By : Owen Xiao
Owen Xiao
(Project Engineer)Reviewed By : Aaron Cheng
Aaron Cheng
(Supervisor)Approved By : Alex Li
Alex Li
(Manager)

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Jan. 21, 2026	Owen Xiao

TABLE OF CONTENTS

1. General Information	6
1.1. RF exposure limits	6
1.2. Statement of Compliance	7
1.3. EUT Description	7
1.4. Test specification(s)	8
1.5. Ambient Condition	9
1.6. Facilities And Accreditations	9
1.6.1. Facilities	9
1.6.2. Laboratory Accreditations And Listings	9
2. SAR Measurement System	10
2.1. SATIMO SAR Measurement Set-up Diagram	10
2.2. Robot	11
2.3. E-Field Probe	12
2.3.1. E-Field Probe Calibration	12
2.4. SAM phantoms	13
2.4.1. Technical Data	14
2.5. Device Holder	15
2.6. Test Equipment List	16
3. SAR Measurement Procedures	18
3.1. Power Reference	18
3.2. Area scan & Zoom scan	18
3.3. Description of interpolation/extrapolation scheme	20
3.4. Volumetric Scan	20
3.5. Power Drift	20
4. System Verification Procedure	21
4.1. Tissue Verification	21
4.1.1. Tissue Dielectric Parameter Check Results	22
4.2. System Verification Procedure	23
4.2.1. System Verification Results	24
4.2.2. Initial Test Position SAR Test Reduction Procedure	25
4.2.3. Initial Test Configuration Procedures	26
4.2.4. Subsequent Test Configuration Procedures	26
4.2.5. GSM SAR Procedures	27
4.2.6. W-CDMA SAR Procedures	28
4.2.7. LTE SAR Procedures	28
4.2.8. 2.4 GHz Wi-Fi SAR Procedures	28
4.2.9. Bluetooth Test Configuration	29
5. SAR Measurement variability and uncertainty	30
5.1. SAR measurement variability	30

5.2. SAR measurement uncertainty.....	30
6. RF Exposure Positions.....	31
6.1. Antenna Location.....	31
6.2. SAR Evaluation	31
1.3. Wireless Router Devices.....	32
7. RF Output Power	33
7.1. GSM Conducted Power	33
7.2. WCDMA Conducted Power.....	33
7.3. LTE Conducted Power.....	35
7.4. WLAN Output Power	56
8. SAR Results	57
8.1. SAR measurement Result	57
8.1.1. SAR measurement Result of GSM850.....	57
8.1.2. SAR measurement Result of GSM1900.....	57
8.1.3. SAR measurement Result of WCDMA Band 2.....	58
8.1.4. SAR measurement Result of WCDMA Band 4.....	58
8.1.5. SAR measurement Result of WCDMA Band 5.....	59
8.1.6. SAR measurement Result of LTE Band 2	59
8.1.7. SAR measurement Result of LTE Band 4	60
8.1.8. SAR measurement Result of LTE Band 5	61
8.1.9. SAR measurement Result of LTE Band 7	61
8.1.10. SAR measurement Result of LTE Band 12	62
8.1.11. SAR measurement Result of LTE Band 13	63
8.1.12. SAR measurement Result of LTE Band 17	63
8.1.13. SAR measurement Result of LTE Band 38	64
8.1.14. SAR measurement Result of LTE Band 41	65
8.1.15. SAR measurement Result of LTE Band 66	65
8.1.16. SAR measurement Result of WLAN 2.4G.....	66
9.1. Simultaneous Transmission Analysis	67
10. Appendix A. Photo documentation.....	67
11. Appendix B. System Check Plots	68
12. Appendix C. Plots of High SAR Measurement	81
13. Appendix D. Calibration Certificate.....	146

1. General Information

1.1. RF exposure limits

(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.

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).

General Population/Uncontrolled Environments:

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

NOTE

HEAD AND TRUNK LIMIT

1.6 W/kg , EXTREMITY LIMIT 4.0 W/kg

APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for K9 are as follows.

Max SAR Value(W/kg)		
RF Exposure Conditions	1-g Front-of-Face (Separation distance of 10mm)	10-g Limb-worn (Separation distance of 0mm)
	0.907	1.741
Max Simultaneous Tx	1.458	2.279

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Front-of-Face, 4.0 W/kg for Limb) specified in FCC 47 CFR Part 2(2.1093), and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information			
Product Name	4G Smart Watch		
Brand Name	LAGENIO		
Model Name	K9		
Family Model	L47Q		
Model Difference	All models have the same circuit and RF module, except for model name.		
FCC ID	2BSSA-K9		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna Type	LDS Antenna		
Battery Information	DC 3.85V, 700mAh, 2.695Wh		
Power supply	DC 3.85V from battery or DC 5V from magnetic charging port		
HW Version	ZT07-MB-V2.0		
SW Version	N/A		
Device Operating Configurations			
Supporting Mode(s)	GSM850/1900,WCDMABand2/4/5,LTEBand2/4/5/7/12/13/17/38/41/66 /WLAN 2.4G		
Test Modulation	GSM(GMSK), WCDMA(QPSK), LTE(QPSK/16QAM), WLAN(DSSS/OFDM)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990

	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 17	704-716	734-746
	LTE Band 38	2570-2620	
	LTE Band 41	2535-2655	
	LTE Band 66	1710-1780	2110-2200
	WLAN 2.4G	2412-2462	
Power Class	4, tested with power level 5(GSM 850)		
	1, tested with power level 0(GSM 1900)		
	3, tested with power control “all 1”(WCDMA Band 2)		
	3, tested with power control “all 1”(WCDMA Band 4)		
	3, tested with power control “all 1”(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 12)		
	3, tested with power control all Max.(LTE Band 13)		
	3, tested with power control all Max.(LTE Band 17)		
	3, tested with power control all Max.(LTE Band 38)		
	3, tested with power control all Max.(LTE Band 41)		
	3, tested with power control all Max.(LTE Band 66)		

1.4. Test specification(s)

FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04;
KDB 865664 D02 RF Exposure Reporting v01r02;
KDB 447498 D01 General RF Exposure Guidance v06;
KDB447498 D04 Interim General RF Exposure Guidance v01
KDB 248227 D01 802.11 Wi-Fi SAR v02r02;
KDB 941225 D01 3G SAR Procedures v03r01 ;
KDB 941225 D05 SAR for LTE Devices v01r02

1.5. Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

1.6. Facilities And Accreditations

1.6.1. Facilities

All measurement facilities used to collect the measurement data are located at Building 1, No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of IEC/IEEE 1528:2013

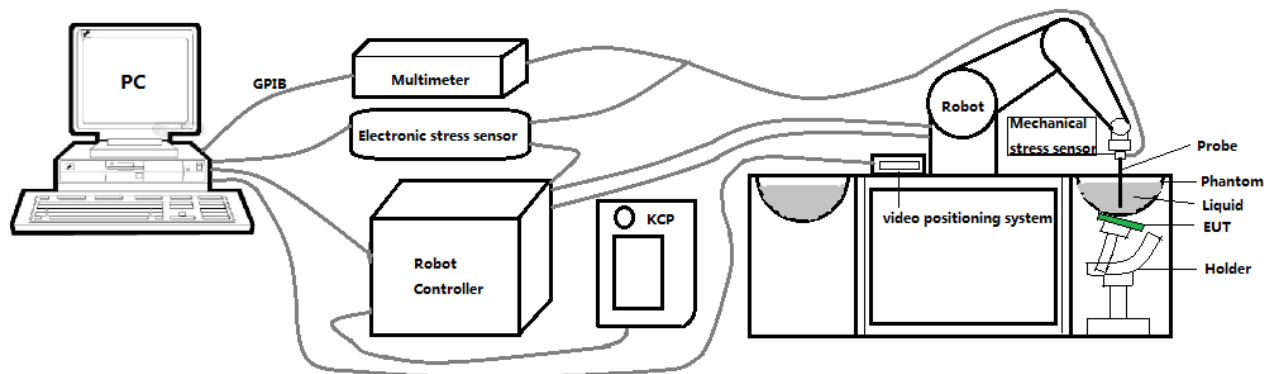
1.6.2. Laboratory Accreditations And Listings

Site Description

CNAS Lab. : The Certificate Registration Number is L5516
A2LA Lab. : The Certificate Registration Number is 4298.01
FCC Accredited : Test Firm Registration Number: 463705
Designation Number: CN1184
ISED Registration : Company Number: 9270A
CAB identifier: CN0074

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 901 mm), which positions the probes with a positional repeatability of better than ± 0.03 mm. The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation.

The first step of the field measurement is the evaluation of the voltages induced on the probe by the device under test. Probe diode detectors are nonlinear. Below the diode compression point, the output voltage is proportional to the square of the applied E-field; above the diode compression point, it is linear to the applied E-field. The compression point depends on the diode, and a calibration procedure is necessary for each sensor of the probe.

The Keithley multimeter reads the voltage of each sensor and send these three values to the PC. The corresponding E field value is calculated using the probe calibration factors, which are stored in the working directory. This evaluation includes linearization of the diode characteristics. The field calculation is done separately for each sensor. Each component of the E field is displayed on the "Dipole Area Scan Interface" and the total E field is displayed on the "3D Interface"

2.2. Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability ± 0.03 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

2.3. E-Field Probe

This E-field detection probe is composed of three orthogonal dipoles linked to special Schottky diodes with low detection thresholds. The probe allows the measurement of electric fields in liquids such as the one defined in the IEEE and CENELEC standards.

For the measurements the Specific Dosimetric E-Field Probe 4025-EPGO-448 with following specifications is used



- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 2.5 mm
- Distance between probe tip and sensor center: 1 mm
- Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ± 1 mm).
- Probe linearity: ± 0.06 dB
- Axial isotropy: ± 0.01 dB
- Hemispherical Isotropy: ± 0.01 dB
- Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
- Lower detection limit: 8mW/kg

Angle between probe axis (evaluation axis) and surface normal line: less than 30° .

2.3.1. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y, and Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested. The calibration data can be referred to appendix D of this report.

2.4. SAM phantoms

Photo of SAM phantom SN 16/15 SAM119

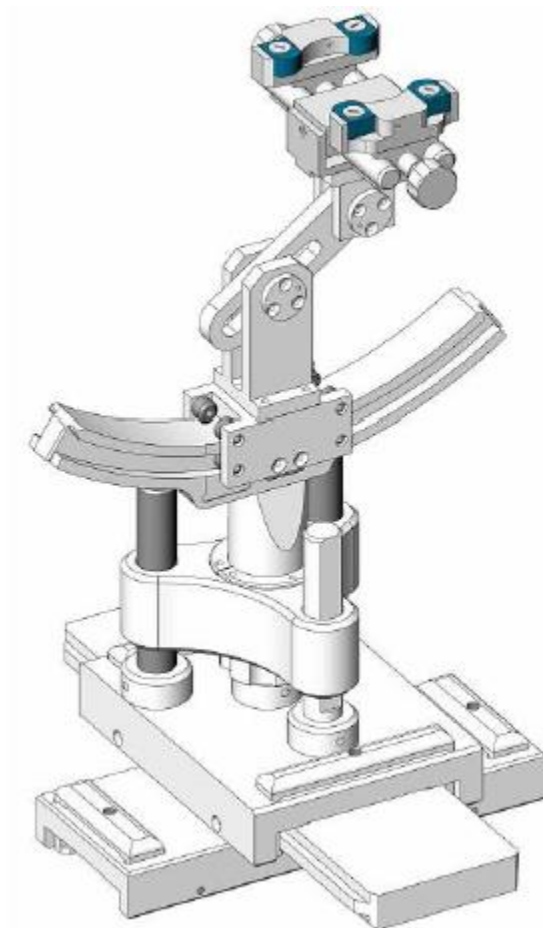


The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by Mobile Phones.

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 μm .

2.5. Device Holder

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



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

2.6. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked ☒

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
☒	MVG	E FIELD PROBE	SSE2	0725-EPGO-448	Apr. 15, 2025	Apr. 14, 2026
☒	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	3500 MHz Dipole	SID3500	SN 09/12 DIP 3G500-360	Oct. 15, 2022	Oct. 14, 2025
☐	MVG	3700 MHz Dipole	SID3700	SN 09/12 DIP 3G/700-361	Oct. 15 2022	Oct. 14 2025
☐	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
☒	MVG	Power Amplifier	N/A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	Nov. 29, 2024	Nov. 28, 2025
☒	R&S	Universal radio communication tester	CMU200	105747	Apr. 17, 2025	Apr. 16, 2026

☒	R&S	Wideband radio communication tester	CMW500	103917	May. 12, 2025	May. 11, 2026
☐	Anritsu	4G LTE comprehensive tester	MT8821C	6262192315	Apr.16 2025	Apr.15 2026
☐	Anritsu	5G NR comprehensive tester	MT8000A	6262186364	Apr.16 2025	Apr.15 2026
☒	HP	Network Analyzer	E5071C	LPS-461	Oct. 15, 2024	Oct. 14, 2025
☒	Agilent	Calibration Kit	85033E	N/A	May. 31, 2024	May. 30, 2027
☒	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Apr. 17, 2025	Apr. 16, 2026
☒	Agilent	Power sensor	E9301A	LES-413-C	May. 6, 2025	May. 5, 2026
☒	Agilent	Power sensor	E9301A	US39212148	Apr. 17, 2025	Apr. 16, 2026
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Apr. 26, 2024	Apr. 25, 2027
☒	N/A	Thermometer	N/A	LES-085	Mar. 27, 2023	Mar. 26, 2026
☒	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR

Measurement Software

Manufacturer	Software Name	Software Version
SATIMO	OpenSAR	V5.3.15.11

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

3.1. Power Reference

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan

above the hot spot to calculate the 1g and 10g SAR value.

Measurement of the SAR distribution with a grid of 8 to 16 mm * 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.

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks; additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g., 1 W/kg for 1,6 W/kg 1 g limit, or 1,26 W/kg for 2 W/kg, 10 g limit).

Area scan & Zoom scan scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	≤ 1.5 · $\Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

3.3. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

3.4. Volumetric Scan

The volumetric scan consists to a full 3D scan over a specific area. This 3D scan is useful form multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scan to calculate the SAR value of the combined measurement as it is define in the standard IEEE1528 and IEC62209.

3.5. Power Drift

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

4. System Verification Procedure

4.1. Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% of weight)	Head Tissue									
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5200	5800
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.

Photo of Liquid depth for Head Position	Photo of Liquid depth for Body Position
	

4.1.1. Tissue Dielectric Parameter Check Results

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 measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Delta(%)		Liquid Temp.	Test Date
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)		
Head 750	750	41.90	0.89	40.40	0.89	-3.58	0.00	21.3 °C	Dec. 27, 2025
Head 835	835	41.50	0.90	41.13	0.89	-0.89	-1.11	21.5 °C	Jan. 05, 2026
Head 1800	1800	40.00	1.40	39.88	1.40	-0.30	0.00	21.2 °C	Jan. 06, 2026
Head 1900	1900	40.00	1.40	38.38	1.45	-4.05	3.57	21.9 °C	Jan. 07, 2026
Head 2450	2450	39.20	1.80	37.65	1.84	-3.95	2.22	21.3 °C	Dec. 30, 2025
Head 2600	2600	39.01	1.96	39.74	1.98	1.87	1.02	21.3 °C	Jan. 04, 2026

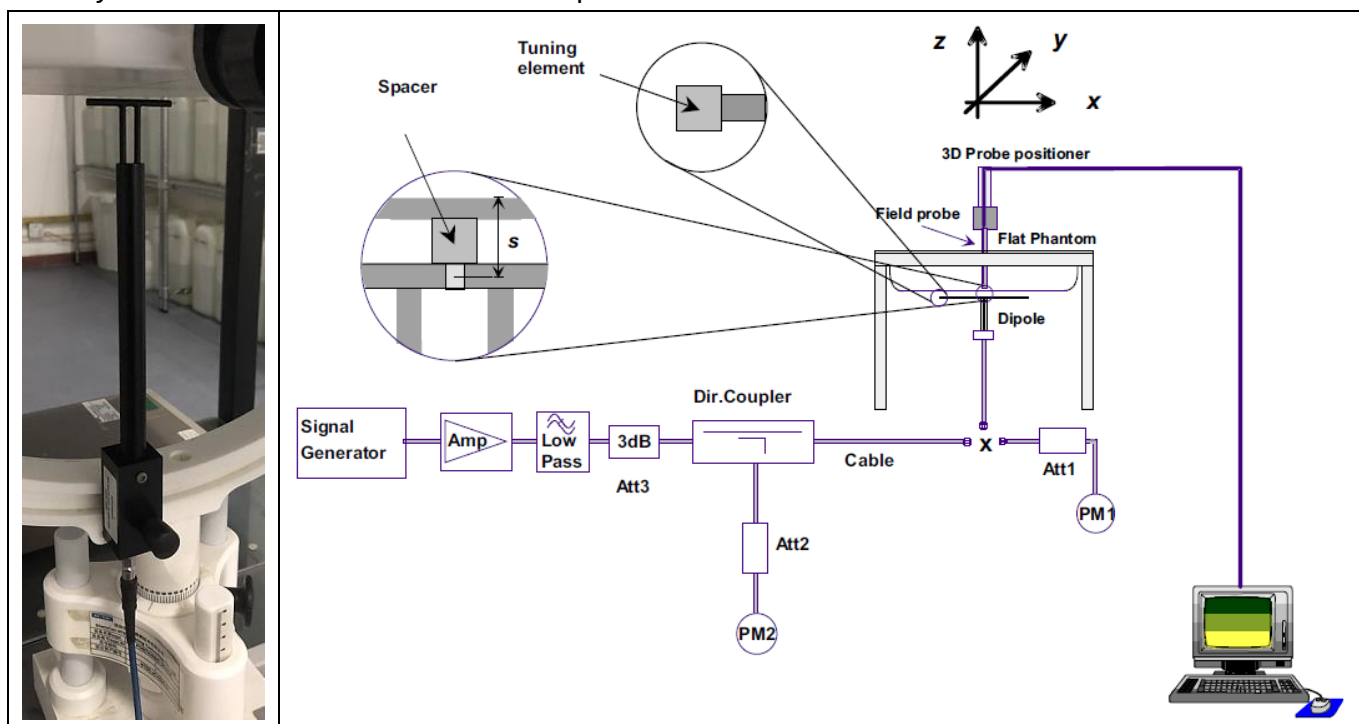
NOTE: 1. The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

2. Tested by : Max Zhou , Jack Peng

4.2. System Verification Procedure

The system verification is performed for verifying the accuracy of the complete measurement system and performance of the software. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system verification to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

The system verification is shown as below picture:



4.2.1. System Verification Results

Comparing to the original SAR value provided by SATIMO, the verification data should be within its specification of $\pm 10\%$. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance verification can meet the variation criterion and the plots can be referred to Appendix B of this report.

System Verification	Target SAR (1W)		Measured SAR			Measured SAR		Delta (%)		Liquid Temp.	Test Date
						(Normalized to 1W)					
	1-g (W/Kg)	10-g (W/Kg)	Input Power (mW)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (%)	10-g (%)		
750MHz	8.60	5.78	100.00	0.89	0.51	8.88	5.05	3.26	-12.63	21.3 °C	Dec. 27, 2025
835MHz	9.40	6.28	100.00	0.99	0.59	9.86	5.90	4.89	-6.05	21.5 °C	Jan. 05, 2026
1800MHz	37.06	20.01	100.00	3.64	1.84	36.44	18.42	-1.67	-7.95	21.2 °C	Jan. 06, 2026
1900MHz	39.69	20.92	100.00	4.17	1.98	41.72	19.84	5.11	-5.16	21.9 °C	Jan. 07, 2026
2450MHz	50.05	23.80	100.00	5.26	2.29	52.58	22.93	5.05	-3.66	21.3 °C	Dec. 30, 2025
2600MHz	54.16	24.85	100.00	5.54	2.34	55.44	23.40	2.36	-5.84	21.3 °C	Jan. 04, 2026

Tested by : Max Zhou , Jack Peng

4.2.2. Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).

When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.

For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

4.2.3. Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to reported SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until reported SAR is ≤ 1.2 W/kg or all required channels are tested.

4.2.4. Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

1. When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
2. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that

subsequent test configuration.

3. The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.

a. SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.

b. SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is $> 1.2 \text{ W/kg}$ or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.

4. SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:

a. replace “subsequent test configuration” with “next subsequent test configuration” (i.e., subsequent next highest specified maximum output power configuration)

b. replace “initial test configuration” with “all tested higher output power configurations”

4.2.5. GSM SAR Procedures

Per KDB 941225 D01 3G SAR Procedures:

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

When different maximum output power applies to GSM voice or GPRS/EDGE time slots, GSM voice and GPRS/EDGE time slots should be tested separately to determine compliance by summing the corresponding reported SAR.

The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance

4.2.6. W-CDMA SAR Procedures

Per KDB 941225 D01 3G SAR Procedures for W-CDMA:

Maximum output power is verified on the high, middle, and low channels and using the appropriate 12.2 kbps RMC with TPC (transmit power control) set to all “1’s”

Release 99 Setup Procedures used to establish the test signals

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1. A summary of these settings is illustrated below:

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 2
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

4.2.7. LTE SAR Procedures

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

4.2.8. 2.4 GHz Wi-Fi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure

test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

1. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
2. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

1. When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions. When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
2. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

4.2.9. Bluetooth Test Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

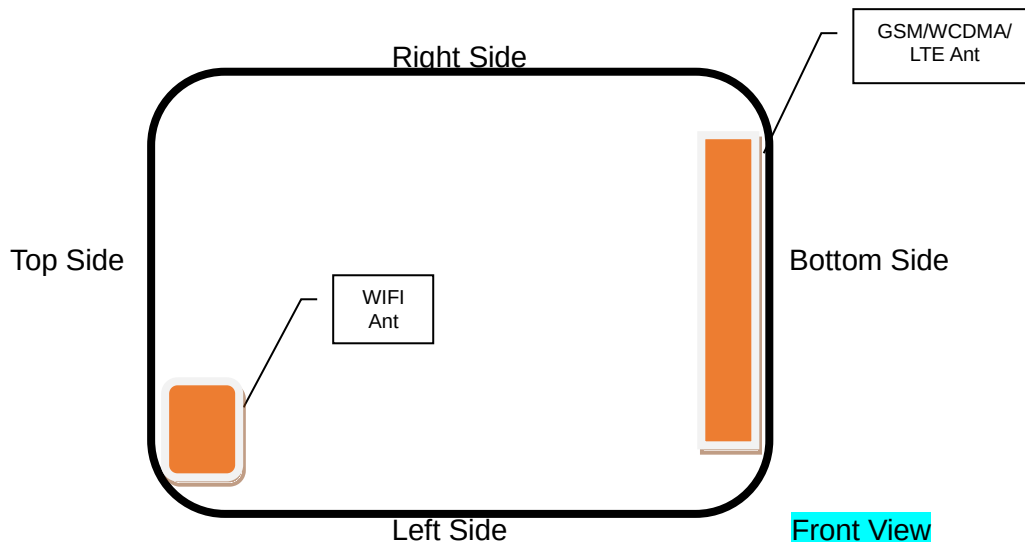
- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

5.2. SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

6. RF Exposure Positions

6.1. Antenna Location



6.2. SAR Evaluation

Transmitters that are built-in within a wristwatch, or similar wrist-worn devices, typically operate in “speakerphone mode” for voice communication, with the device worn on the wrist and positioned next to the mouth. Operations next to the mouth requires 1-g SAR measurement, while the wrist-worn condition requires 10-g extremity SAR measurement.

SAR test exemptions for 10-g extremity with the wrist and 1-g with face exposure condition may be applied. When SAR evaluation is required, next-to-mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom to measure head SAR. The wrist bands shall be strapped together to represent normal use conditions.

SAR for wrist exposure is evaluated with the back of the device positioned in direct contact against a flat phantom filled with body tissue-equivalent medium. The wrist bands shall be unstrapped and touching the phantom. The space introduced between the transmitter and the flat phantom must be representative of actual use conditions.

1.3. Wireless Router Devices

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

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WLAN transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WLAN transmitter according to FCC KDB Publication 447498 D01 publication procedures. The “Portable Hotspot” feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	128	189	251	Tune-up	128	189	251
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8
GSM (GMSK)	32.00	31.69	31.71	31.53	22.97	22.66	22.68	22.50
GPRS(GMSK,1 Tx slot)	32.00	31.66	31.72	31.51	22.97	22.63	22.69	22.48
GPRS(GMSK,2 Tx slot)	30.00	29.76	29.67	29.46	23.98	23.74	23.65	23.44
GPRS(GMSK,3 Tx slot)	28.00	27.81	27.78	27.51	23.74	23.55	23.52	23.25
GPRS(GMSK,4 Tx slot)	26.00	25.56	25.70	25.48	22.99	22.55	22.69	22.47
EGPRS(8PSK,1 Tx slot)	26.50	26.02	25.80	25.68	17.47	16.99	16.77	16.65
EGPRS(8PSK,2 Tx slot)	25.00	24.52	24.66	24.45	18.98	18.50	18.64	18.43
EGPRS(8PSK,3 Tx slot)	22.50	21.85	22.36	22.29	18.24	17.59	18.10	18.03
EGPRS(8PSK,4 Tx slot)	20.00	19.64	19.90	19.11	16.99	16.63	16.89	16.10
Band GSM1900	Burst-Averaged output Power (dBm)				Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	512	661	810	Tune-up	512	661	810
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8
GSM (GMSK)	29.50	29.15	29.27	29.17	20.47	20.12	20.24	20.14
GPRS(GMSK,1 Tx slot)	29.50	29.09	29.24	29.16	20.47	20.06	20.21	20.13
GPRS(GMSK,2 Tx slot)	27.50	26.95	27.06	26.98	21.48	20.93	21.04	20.96
GPRS(GMSK,3 Tx slot)	25.50	25.17	25.29	25.32	21.24	20.91	21.03	21.06
GPRS(GMSK,4 Tx slot)	23.50	23.08	23.28	23.19	20.49	20.07	20.27	20.18
EGPRS(8PSK,1 Tx slot)	26.50	26.45	26.28	25.72	17.47	17.42	17.25	16.69
EGPRS(8PSK,2 Tx slot)	25.00	24.58	24.62	24.34	18.98	18.56	18.60	18.32
EGPRS(8PSK,3 Tx slot)	23.00	22.44	22.78	22.26	18.74	18.18	18.52	18.00
EGPRS(8PSK,4 Tx slot)	23.00	22.30	22.57	22.31	19.99	19.29	19.56	19.30

7.2. WCDMA Conducted Power

WCDMA Band 2	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC12.2K	23.50	22.94	23.06	23.05
HSDPA Sub 1	22.00	21.59	21.38	21.35
HSDPA Sub 2	21.50	21.13	21.27	21.10

HSDPA Sub 3	21.50	21.10	21.00	20.73
HSDPA Sub 4	21.00	20.77	20.59	20.74
HSUPA Sub 1	21.50	21.39	21.30	21.01
HSUPA Sub 2	21.50	21.49	21.36	21.29
HSUPA Sub 3	21.50	21.08	20.81	20.88
HSUPA Sub 4	21.50	21.30	21.37	21.23
HSUPA Sub 5	21.50	21.21	21.06	20.99
WCDMA Band 4	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC12.2K	22.50	21.87	21.86	22.23
HSDPA Sub 1	21.50	21.18	21.19	21.05
HSDPA Sub 2	21.00	20.80	20.97	20.78
HSDPA Sub 3	21.00	20.59	20.67	20.45
HSDPA Sub 4	21.00	20.24	20.52	20.35
HSUPA Sub 1	21.50	20.95	21.13	20.83
HSUPA Sub 2	21.50	21.03	21.09	20.97
HSUPA Sub 3	21.50	20.83	21.07	20.59
HSUPA Sub 4	21.50	20.96	21.10	20.86
HSUPA Sub 5	21.00	20.88	20.94	20.81
WCDMA Band 5	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	23.00	22.52	22.47	22.56
HSDPA Sub 1	22.00	21.92	21.82	21.80
HSDPA Sub 2	22.00	21.58	21.55	21.59
HSDPA Sub 3	21.50	21.34	21.26	21.06
HSDPA Sub 4	21.50	21.17	21.24	21.29
HSUPA Sub 1	22.00	21.87	21.84	21.57
HSUPA Sub 2	22.00	21.94	21.85	21.81
HSUPA Sub 3	22.00	21.58	21.78	21.50
HSUPA Sub 4	22.00	21.88	21.85	21.88
HSUPA Sub 5	22.00	21.78	21.57	21.49

7.3. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	23.50	22.62	23.05	23.31
			1	2	23.50	22.70	22.92	23.26
			1	5	23.50	22.70	22.89	23.32
			3	0	23.50	22.73	23.07	23.25
			3	1	23.50	22.77	23.10	23.29
			3	2	23.50	22.81	22.89	23.30
			6	0	22.50	21.70	21.99	22.12
		16QAM	1	0	23.00	21.67	22.05	22.62
			1	2	23.00	21.70	22.05	22.53
			1	5	23.00	21.67	21.88	22.57
			3	0	22.50	21.72	22.11	22.39
			3	1	22.50	21.68	22.14	22.36
			3	2	22.50	21.67	22.00	22.35
			6	0	22.00	21.68	20.77	20.92
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	23.50	22.87	23.16	23.24
			1	7	23.50	22.86	23.12	23.45
			1	14	23.50	22.78	22.97	23.39
			8	0	22.50	21.68	22.11	22.25
			8	4	22.50	21.71	21.91	22.09
			8	7	22.50	21.69	21.83	22.19
			15	0	22.50	21.71	22.19	22.20
		16QAM	1	0	23.00	22.20	22.18	22.55
			1	7	23.00	22.18	21.92	22.60
			1	14	23.00	22.16	21.91	22.54
			8	0	21.50	21.13	21.10	21.27
			8	4	21.50	21.18	21.31	21.22
			8	7	21.50	21.21	21.29	21.21
			15	0	21.50	21.13	21.09	21.23
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE	5MHz	QPSK	1	0	24.00	22.99	23.33	23.48

Band 2			1	12	24.00	23.07	23.24	23.40
			1	24	24.00	23.12	23.18	23.52
			12	0	22.50	21.86	22.09	22.21
			12	6	22.50	21.67	21.91	22.19
			12	11	22.50	21.72	21.94	22.13
			25	0	22.50	21.69	22.12	22.13
		16QAM	1	0	22.50	21.67	22.00	22.14
			1	12	22.50	21.79	21.84	22.18
			1	24	22.50	21.75	21.85	22.22
			12	0	21.50	21.11	21.09	21.19
			12	6	21.50	21.09	21.32	21.18
			12	11	21.50	21.18	21.20	21.16
			25	0	21.50	21.29	21.16	21.37
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	23.50	22.85	23.20	23.43
			1	24	23.50	23.00	23.17	23.31
			1	49	23.50	22.95	23.01	23.33
			25	0	22.50	21.81	21.98	22.29
			25	12	22.50	21.90	22.11	22.20
			25	24	22.50	21.85	21.99	22.20
			50	0	22.50	21.85	22.15	22.17
		16QAM	1	0	23.00	22.22	22.43	22.70
			1	24	23.00	22.18	22.55	22.72
			1	49	23.00	22.24	22.36	22.57
			25	0	22.00	21.11	21.02	21.19
			25	12	22.00	20.76	21.02	21.55
			25	24	22.00	20.82	20.96	21.18
			50	0	22.00	20.88	20.97	21.54
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	23.50	22.95	23.29	23.37
			1	37	23.50	22.98	23.05	23.35
			1	74	23.50	23.13	23.07	23.38
			36	0	22.50	21.82	22.13	22.21
			36	18	22.50	21.82	21.82	22.28
			36	37	22.50	21.84	21.91	22.20
			75	0	22.50	21.90	22.19	22.23

		16QAM	1	0	23.00	22.17	22.00	22.58
		16QAM	1	37	23.00	22.31	21.86	22.76
		16QAM	1	74	23.00	22.31	21.90	22.57
		16QAM	36	0	21.50	20.81	21.07	21.24
		16QAM	36	18	21.50	20.89	21.43	21.24
		16QAM	36	37	21.50	20.79	21.07	21.20
		16QAM	75	0	21.50	20.83	21.02	21.22
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	24.00	23.08	23.28	23.52
			1	49	24.00	23.32	23.23	23.62
			1	99	24.00	23.47	23.29	23.55
			50	0	23.50	21.95	22.11	22.23
			50	24	23.50	21.90	22.28	22.39
			50	49	23.50	22.04	22.09	22.26
			100	0	22.50	21.92	22.20	22.31
		16QAM	1	0	22.50	21.76	21.78	22.17
			1	49	22.50	21.95	21.85	22.33
			1	99	22.50	21.97	21.68	22.39
			50	0	22.00	20.89	21.11	21.25
			50	24	22.00	20.94	21.11	21.33
			50	49	22.00	21.22	21.05	21.62
			100	0	21.50	20.95	21.19	21.29

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	23.50	22.44	23.04	23.28
			1	2	23.50	22.54	23.05	23.14
			1	5	23.50	22.47	23.15	23.19
			3	0	23.50	22.97	23.06	23.09
			3	1	23.50	22.75	23.15	23.15
			3	2	23.50	22.73	23.11	23.07
			6	0	22.50	21.61	22.04	22.07
		16QAM	1	0	23.00	21.68	22.46	22.77
			1	2	23.00	21.68	22.57	22.83
			1	5	23.00	21.49	22.53	22.75
			3	0	22.50	21.91	22.39	22.31

			3	1	22.50	22.01	22.34	22.20
			3	2	22.50	21.81	22.27	22.24
			6	0	21.00	20.53	20.72	20.67
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	23.50	22.77	23.12	23.17
			1	7	23.50	22.82	23.08	23.20
			1	14	23.50	22.66	23.17	23.17
			8	0	22.50	21.71	22.06	21.99
			8	4	22.50	21.70	22.08	22.03
			8	7	22.50	21.62	22.10	22.11
			15	0	22.50	21.67	22.04	22.00
		16QAM	1	0	23.00	22.21	22.53	22.78
			1	7	23.00	22.15	22.49	22.90
			1	14	23.00	22.28	22.46	22.77
			8	0	21.50	20.81	21.16	21.29
			8	4	21.50	20.83	21.17	21.25
			8	7	21.50	20.73	21.18	21.14
			15	0	21.50	20.76	21.12	21.29
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	23.50	22.94	23.30	23.21
			1	12	23.50	22.81	23.35	23.26
			1	24	23.50	22.91	23.39	23.30
			12	0	22.50	21.62	21.93	22.03
			12	6	22.50	21.48	22.17	22.01
			12	11	22.50	21.23	22.12	22.11
			25	0	22.50	21.46	22.03	22.15
		16QAM	1	0	22.50	21.61	22.06	21.86
			1	12	22.50	22.12	21.95	21.90
			1	24	22.50	22.08	22.00	22.03
			12	0	21.50	20.67	21.05	21.13
			12	6	21.50	20.75	21.09	21.19
			12	11	21.50	20.69	21.03	21.18
			25	0	21.50	20.61	21.34	21.33
Band	Band	Modulation	RB		Tune-up	Channel/Frequency(MHz)		

	Width		Configuration		(dBm)			
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	23.50	22.66	22.97	23.00
			1	24	23.50	22.66	23.14	23.03
			1	49	23.50	22.85	23.05	23.05
			25	0	22.50	21.73	22.07	22.00
			25	12	22.50	21.61	22.05	22.05
			25	24	22.50	21.73	22.13	22.03
			50	0	22.50	21.67	22.13	22.06
		16QAM	1	0	23.00	22.21	22.50	22.45
			1	24	23.00	22.20	22.37	22.44
			1	49	23.00	22.23	22.64	22.56
			25	0	22.00	20.62	20.92	21.11
			25	12	22.00	20.66	21.12	21.07
			25	24	22.00	21.10	21.52	21.10
			50	0	21.50	20.63	21.00	21.12
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	23.50	23.02	22.90	22.94
			1	37	23.50	23.05	23.10	23.01
			1	74	23.50	23.21	23.17	23.09
			36	0	22.50	21.57	22.03	21.98
			36	18	22.50	21.77	22.01	22.05
			36	37	22.50	21.91	22.15	22.09
			75	0	22.50	21.78	22.12	22.01
		16QAM	1	0	23.00	21.55	22.40	22.53
			1	37	23.00	21.58	22.51	22.54
			1	74	23.00	21.95	22.73	22.45
			36	0	21.50	20.78	21.05	20.98
			36	18	21.50	21.21	21.10	21.03
			36	37	21.50	21.30	21.08	21.09
			75	0	21.50	21.17	21.15	21.23
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE	20MHz	QPSK	1	0	23.50	22.95	23.15	23.18

Band 4			1	49	23.50	23.10	23.36	23.21
			1	99	23.50	23.32	23.38	23.26
			50	0	23.50	22.64	23.10	22.86
			50	24	23.50	22.87	23.06	22.96
			50	49	23.50	22.99	23.06	23.05
			100	0	22.50	21.81	22.00	22.01
		16QAM	1	0	22.50	21.58	21.82	22.15
			1	49	22.50	21.84	22.04	22.25
			1	99	22.50	21.95	22.10	22.06
			50	0	21.50	20.79	20.96	21.05
			50	24	21.50	20.85	21.09	21.15
			50	49	21.50	20.94	21.13	21.20
			100	0	21.50	20.90	21.12	21.07

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	23.50	22.44	23.04	23.28
			1	2	23.50	22.54	23.05	23.14
			1	5	23.50	22.47	23.15	23.19
			3	0	23.50	22.97	23.06	23.09
			3	1	23.50	22.75	23.15	23.15
			3	2	23.50	22.73	23.11	23.07
			6	0	22.50	21.61	22.04	22.07
		16QAM	1	0	23.00	21.68	22.46	22.77
			1	2	23.00	21.68	22.57	22.83
			1	5	23.00	21.49	22.53	22.75
			3	0	22.50	21.91	22.39	22.31
			3	1	22.50	22.01	22.34	22.20
			3	2	22.50	21.81	22.27	22.24
			6	0	21.00	20.53	20.72	20.67
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	23.50	22.77	23.12	23.17
			1	7	23.50	22.82	23.08	23.20
			1	14	23.50	22.66	23.17	23.17
			8	0	22.50	21.71	22.06	21.99
			8	4	22.50	21.70	22.08	22.03
			8	7	22.50	21.62	22.10	22.11

			15	0	22.50	21.67	22.04	22.00
		16QAM	1	0	23.00	22.21	22.53	22.78
			1	7	23.00	22.15	22.49	22.90
			1	14	23.00	22.28	22.46	22.77
			8	0	21.50	20.81	21.16	21.29
			8	4	21.50	20.83	21.17	21.25
			8	7	21.50	20.73	21.18	21.14
			15	0	21.50	20.76	21.12	21.29
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	23.50	22.94	23.30	23.21
			1	12	23.50	22.81	23.35	23.26
			1	24	23.50	22.91	23.39	23.30
			12	0	22.50	21.62	21.93	22.03
			12	6	22.50	21.48	22.17	22.01
			12	11	22.50	21.23	22.12	22.11
			25	0	22.50	21.46	22.03	22.15
		16QAM	1	0	22.50	21.61	22.06	21.86
			1	12	22.50	22.12	21.95	21.90
			1	24	22.50	22.08	22.00	22.03
			12	0	21.50	20.67	21.05	21.13
			12	6	21.50	20.75	21.09	21.19
			12	11	21.50	20.69	21.03	21.18
			25	0	21.50	20.61	21.34	21.33
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	23.50	22.66	22.97	23.00
			1	24	23.50	22.66	23.14	23.03
			1	49	23.50	22.85	23.05	23.05
			25	0	22.50	21.73	22.07	22.00
			25	12	22.50	21.61	22.05	22.05
			25	24	22.50	21.73	22.13	22.03
			50	0	22.50	21.67	22.13	22.06
		16QAM	1	0	23.00	22.21	22.50	22.45
			1	24	23.00	22.20	22.37	22.44
			1	49	23.00	22.23	22.64	22.56
			25	0	22.00	20.62	20.92	21.11
			25	12	22.00	20.66	21.12	21.07

			25	24	22.00	21.10	21.52	21.10
			50	0	21.50	20.63	21.00	21.12
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	23.50	23.02	22.90	22.94
			1	37	23.50	23.05	23.10	23.01
			1	74	23.50	23.21	23.17	23.09
			36	0	22.50	21.57	22.03	21.98
			36	18	22.50	21.77	22.01	22.05
			36	37	22.50	21.91	22.15	22.09
			75	0	22.50	21.78	22.12	22.01
		16QAM	1	0	23.00	21.55	22.40	22.53
			1	37	23.00	21.58	22.51	22.54
			1	74	23.00	21.95	22.73	22.45
			36	0	21.50	20.78	21.05	20.98
			36	18	21.50	21.21	21.10	21.03
			36	37	21.50	21.30	21.08	21.09
			75	0	21.50	21.17	21.15	21.23
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	23.50	22.95	23.15	23.18
			1	49	23.50	23.10	23.36	23.21
			1	99	23.50	23.32	23.38	23.26
			50	0	23.50	22.64	23.10	22.86
			50	24	23.50	22.87	23.06	22.96
			50	49	23.50	22.99	23.06	23.05
			100	0	22.50	21.81	22.00	22.01
		16QAM	1	0	22.50	21.58	21.82	22.15
			1	49	22.50	21.84	22.04	22.25
			1	99	22.50	21.95	22.10	22.06
			50	0	21.50	20.79	20.96	21.05
			50	24	21.50	20.85	21.09	21.15
			50	49	21.50	20.94	21.13	21.20
			100	0	21.50	20.90	21.12	21.07

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3

LTE Band 5	1.4MHz	QPSK	1	0	23.50	22.92	23.11	23.03
			1	2	23.50	22.83	23.08	23.10
			1	5	23.50	22.87	23.08	23.08
			3	0	22.50	22.13	22.03	22.14
			3	1	22.50	22.15	22.18	22.26
			3	2	22.50	22.10	22.19	22.03
			6	0	22.50	22.45	21.72	21.87
		16QAM	1	0	22.50	22.32	22.09	21.93
			1	2	22.50	22.23	21.63	21.98
			1	5	22.50	22.21	21.71	21.98
			3	0	23.00	22.49	21.94	21.94
			3	1	23.00	22.64	21.91	22.20
			3	2	23.00	22.59	21.88	22.02
			6	0	21.50	21.23	20.76	20.79
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	23.50	23.25	22.94	22.91
			1	7	23.50	23.16	23.02	23.00
			1	14	23.50	23.24	23.00	22.98
			8	0	22.50	22.43	22.22	21.93
			8	4	22.50	22.30	21.92	21.85
			8	7	22.50	22.07	21.87	21.83
			15	0	22.50	22.41	21.91	21.96
		16QAM	1	0	23.00	22.33	22.67	21.82
			1	7	23.00	22.24	22.20	21.65
			1	14	23.00	21.98	22.16	21.76
			8	0	22.00	21.44	21.38	21.02
			8	4	22.00	21.53	20.99	20.97
			8	7	22.00	21.52	20.93	21.02
			15	0	21.50	21.49	20.98	21.02
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	23.50	23.02	23.25	23.21
			1	12	23.50	23.21	23.26	23.11
			1	24	23.50	23.13	23.18	23.18
			12	0	22.50	22.38	22.23	21.93
			12	6	22.50	22.13	21.79	21.91
			12	11	22.50	22.15	21.76	21.83

			25	0	22.00	21.96	21.87	21.92
		16QAM	1	0	23.00	22.86	22.27	21.82
			1	12	23.00	22.43	21.93	21.76
			1	24	23.00	22.70	21.74	21.74
			12	0	21.50	21.39	21.31	21.02
			12	6	21.50	21.39	20.90	20.86
			12	11	21.50	21.45	20.87	20.85
			25	0	21.50	21.35	21.12	21.07
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	23.50	23.10	23.01	22.89
			1	24	23.50	23.06	23.01	22.83
			1	49	23.50	23.02	22.81	22.90
			25	0	22.50	22.03	22.40	21.73
			25	12	22.50	22.43	21.78	21.95
			25	24	22.50	22.25	21.84	21.82
			50	0	22.50	22.30	21.89	21.93
		16QAM	1	0	23.00	22.84	22.77	22.39
			1	24	23.00	22.75	22.25	22.25
			1	49	23.00	22.45	22.30	22.26
			25	0	21.50	21.43	21.32	20.86
			25	12	21.50	21.33	20.83	20.67
			25	24	21.50	21.37	21.24	20.88
			50	0	21.50	21.45	20.95	20.77

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	23.50	22.60	22.98	22.97
			1	12	23.50	22.82	23.01	23.08
			1	24	23.50	22.60	23.09	23.09
			12	0	22.50	21.80	21.72	21.95
			12	6	22.50	21.73	21.92	21.97
			12	11	22.50	21.60	21.88	22.07
			25	0	22.50	21.60	21.82	22.01
		16QAM	1	0	22.50	21.79	22.16	22.09
			1	12	22.50	21.91	22.16	22.12
			1	24	22.50	21.73	22.15	22.25
			12	0	21.50	20.82	20.84	21.09

			12	6	21.50	20.74	20.89	21.12
			12	11	21.50	20.71	20.99	21.22
			25	0	21.00	20.69	20.93	20.99
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	23.50	22.53	22.90	23.12
			1	24	23.50	22.77	22.89	23.09
			1	49	23.50	22.78	22.91	23.07
			25	0	22.50	21.65	21.81	22.12
			25	12	22.50	21.71	21.80	22.04
			25	24	22.50	21.67	21.86	22.05
			50	0	22.50	21.67	21.86	22.10
		16QAM	1	0	23.00	22.21	22.43	22.72
			1	24	23.00	22.22	22.41	22.62
			1	49	23.00	22.27	22.28	22.61
			25	0	21.50	20.60	20.79	21.17
			25	12	21.50	20.81	20.88	21.10
			25	24	21.50	20.74	20.91	21.04
			50	0	21.50	20.72	20.85	21.16
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	23.50	22.77	22.95	23.16
			1	37	23.50	22.91	23.02	23.21
			1	74	23.50	22.77	23.00	23.14
			36	0	22.50	21.83	21.82	21.91
			36	18	22.50	21.79	21.92	22.03
			36	37	22.50	21.56	21.91	22.02
			75	0	22.50	21.78	21.88	22.06
		16QAM	1	0	22.50	21.74	21.93	22.23
			1	37	22.50	21.91	22.17	22.30
			1	74	22.50	21.96	22.22	22.33
			36	0	21.50	20.83	20.89	21.21
			36	18	21.50	20.77	20.97	21.24
			36	37	21.50	20.76	21.09	21.19
			75	0	21.50	20.78	20.88	21.06
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560

LTE Band 7	20MHz	QPSK	1	0	24.00	22.74	23.47	23.70
			1	49	24.00	22.96	23.45	23.68
			1	99	24.00	23.01	23.58	23.61
			50	0	23.00	21.99	22.17	22.45
			50	24	23.00	22.04	22.28	22.53
			50	49	23.00	22.02	22.24	22.46
			100	0	22.50	22.00	22.29	22.40
		16QAM	1	0	23.00	21.96	22.26	22.50
			1	49	23.00	21.94	22.29	22.35
			1	99	23.00	22.07	22.24	22.38
			50	0	22.00	21.14	21.32	21.60
			50	24	22.00	21.16	21.41	21.50
			50	49	22.00	21.08	21.47	21.63
			100	0	22.00	21.20	21.52	21.70

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	23.00	22.97	22.93	22.91
			1	2	23.00	22.66	22.79	22.82
			1	5	23.00	22.77	22.79	22.76
			3	0	23.50	22.82	22.93	23.06
			3	1	23.50	22.83	23.05	22.93
			3	2	23.50	22.89	23.01	22.90
			6	0	22.50	21.77	22.01	21.92
		16QAM	1	0	22.50	21.76	22.29	22.24
			1	2	22.50	21.74	22.25	22.28
			1	5	22.50	21.59	22.34	22.21
			3	0	22.50	21.85	22.22	22.15
			3	1	22.50	21.97	22.10	22.04
			3	2	22.50	21.84	22.15	21.97
			6	0	21.50	20.64	21.06	20.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	23.50	22.83	22.99	22.91
			1	7	23.50	22.79	23.01	22.88
			1	14	23.50	22.87	23.02	22.77
			8	0	22.50	21.85	21.85	22.03
			8	4	22.50	21.80	21.98	22.04

			8	7	22.50	21.87	22.02	21.88
			15	0	22.00	21.81	21.95	21.88
		16QAM	1	0	22.50	22.18	21.90	22.31
			1	7	22.50	22.25	21.78	22.26
			1	14	22.50	22.21	21.79	22.17
			8	0	22.00	21.00	21.14	21.51
			8	4	22.00	20.96	21.48	21.47
			8	7	22.00	21.36	21.48	21.00
			15	0	21.50	20.93	21.44	21.49
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	23.50	23.09	23.13	23.27
			1	12	23.50	23.21	23.04	23.19
			1	24	23.50	23.22	23.12	23.09
			12	0	22.50	21.80	21.84	21.84
			12	6	22.50	21.87	22.01	22.10
			12	11	22.50	21.96	21.90	21.89
			25	0	22.50	21.87	21.98	22.04
		16QAM	1	0	22.00	21.75	21.94	21.83
			1	12	22.00	21.84	21.83	21.93
			1	24	22.00	21.37	21.80	21.79
			12	0	21.50	21.42	21.02	21.42
			12	6	21.50	21.41	21.41	21.41
			12	11	21.50	21.31	21.39	21.44
			25	0	22.00	21.29	21.57	21.57
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	23.00	22.90	22.98	22.93
			1	24	23.00	22.98	22.95	22.97
			1	49	23.00	22.88	22.94	22.91
			25	0	22.50	21.88	22.04	21.95
			25	12	22.50	21.84	22.06	21.85
			25	24	22.50	21.99	21.90	21.95
			50	0	22.00	21.88	21.98	21.87
		16QAM	1	0	22.50	22.34	22.31	22.32
			1	24	22.50	22.15	22.28	22.22
			1	49	22.50	22.28	22.10	22.26
			25	0	21.50	21.29	21.01	21.29

			25	12	21.50	21.36	21.38	21.42
			25	24	21.50	20.90	21.48	21.39
			50	0	21.50	21.36	21.34	21.44

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23205/779.5	23230/782	23255/784.5
LTE Band 13	5MHz	QPSK	1	0	23.50	22.73	23.05	22.99
			1	12	23.50	22.67	23.02	23.02
			1	24	23.50	22.62	23.03	23.02
			12	0	22.50	21.71	21.76	22.00
			12	6	22.50	21.77	21.99	22.04
			12	11	22.50	21.75	21.99	21.78
			25	0	22.50	21.81	22.05	22.10
		16QAM	1	0	22.50	22.10	21.55	21.97
			1	12	22.50	21.95	21.85	22.00
			1	24	22.50	22.43	21.87	21.69
			12	0	21.50	20.96	20.69	21.14
			12	6	21.50	20.72	21.07	21.02
			12	11	21.50	20.61	20.98	20.76
			25	0	21.50	20.71	21.19	21.28
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	23230/782	/
LTE Band 13	10MHz	QPSK	1	0	24.00	/	23.76	/
			1	24	24.00	/	23.87	/
			1	49	24.00	/	23.77	/
			25	0	22.50	/	21.61	/
			25	12	22.50	/	22.06	/
			25	24	22.50	/	22.08	/
			50	0	22.50	/	22.08	/
		16QAM	1	0	22.50	/	22.06	/
			1	24	22.50	/	22.38	/
			1	49	22.50	/	22.19	/
			25	0	21.00	/	20.68	/
			25	12	21.00	/	20.96	/
			25	24	21.00	/	20.96	/
			50	0	21.00	/	20.98	/

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	23.50	22.81	22.94	23.31
			1	12	23.50	22.78	22.90	23.18
			1	24	23.50	22.70	22.90	23.06
			12	0	22.50	21.85	22.03	21.97
			12	6	22.50	21.98	21.95	21.92
			12	11	22.50	21.97	21.94	21.99
			25	0	22.50	22.08	21.88	22.04
		16QAM	1	0	22.50	22.32	22.36	21.87
			1	12	22.50	22.17	22.25	21.95
			1	24	22.50	22.38	22.29	21.92
			12	0	21.50	20.91	21.34	21.42
			12	6	21.50	20.87	21.33	21.35
			12	11	21.50	21.37	21.35	21.47
			25	0	22.00	20.91	21.45	21.60
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	23.50	23.02	23.17	23.02
			1	24	23.50	22.87	23.08	23.11
			1	49	23.50	22.97	23.11	22.97
			25	0	22.50	21.93	21.99	21.93
			25	12	22.50	21.92	21.89	21.89
			25	24	22.50	21.92	21.88	22.02
			50	0	22.00	21.96	21.89	21.86
		16QAM	1	0	22.50	22.28	21.90	21.89
			1	24	22.50	22.23	21.77	21.78
			1	49	22.50	22.27	21.94	21.77
			25	0	22.00	21.00	21.55	21.56
			25	12	22.00	21.35	21.61	21.62
			25	24	22.00	21.41	21.54	21.56
			50	0	22.00	21.38	21.48	21.53

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37775/2572.5	38000/2595	38225/2617.5
LTE	5MHz	QPSK	1	0	23.50	22.72	23.44	23.44

Band 38			1	12	23.50	22.93	23.49	23.48
			1	24	23.50	23.03	23.36	23.24
			12	0	22.50	21.90	22.00	22.03
			12	6	22.50	21.89	21.97	22.05
			12	11	22.50	21.92	21.85	21.94
			25	0	22.50	21.80	21.85	22.08
		16QAM	1	0	22.00	21.46	21.56	21.53
			1	12	22.00	21.55	21.47	21.67
			1	24	22.00	21.47	21.41	21.65
			12	0	21.00	20.41	20.48	20.50
			12	6	21.00	20.42	20.42	20.55
			12	11	21.00	20.43	20.44	20.53
			25	0	21.00	20.47	20.55	20.67
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37800/2575	38000/2595	38200/2615
LTE Band 38	10MHz	QPSK	1	0	23.50	23.08	23.10	23.02
			1	24	23.50	23.10	22.99	23.13
			1	49	23.50	23.12	22.90	23.03
			25	0	22.00	21.51	21.54	21.59
			25	12	22.00	21.55	21.51	21.61
			25	24	22.00	21.54	21.39	21.67
			50	0	22.00	21.44	21.53	21.67
		16QAM	1	0	21.50	21.25	21.26	21.23
			1	24	21.50	21.17	21.09	21.23
			1	49	21.50	21.29	21.05	21.16
			25	0	20.50	20.11	20.16	20.15
			25	12	20.50	20.11	20.14	20.25
			25	24	20.50	20.09	20.18	20.27
			50	0	20.50	20.15	20.21	20.27
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37825/2577.5	38000/2595	38175/2615
LTE Band 38	15MHz	QPSK	1	0	23.00	22.60	22.69	22.56
			1	37	23.00	22.62	22.58	22.53
			1	74	23.00	22.62	22.49	22.65
			36	0	22.00	21.43	21.62	21.54
			36	18	22.00	21.41	21.38	21.59
			36	37	22.00	21.50	21.35	21.56
			75	0	22.00	21.47	21.45	21.54

		16QAM	1	0	21.50	21.23	20.69	20.69
		16QAM	1	37	21.50	21.28	20.58	20.59
		16QAM	1	74	21.50	21.27	20.51	20.67
		16QAM	36	0	20.50	20.02	20.04	19.96
		16QAM	36	18	20.50	20.00	19.92	19.96
		16QAM	36	37	20.50	20.06	19.83	19.98
		16QAM	75	0	20.50	20.10	19.96	20.01
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		37850/2580	38000/2595	38150/2610
LTE Band 38	20MHz	QPSK	1	0	23.50	23.16	23.11	22.95
			1	49	23.50	23.21	22.94	23.06
			1	99	23.50	23.08	22.89	22.98
			50	0	23.00	22.57	22.59	22.66
			50	24	23.00	21.51	21.59	21.57
			50	49	23.00	21.68	21.37	21.69
			100	0	22.00	21.60	21.45	21.53
		16QAM	1	0	21.50	21.28	21.25	21.10
			1	49	21.50	21.27	21.15	21.11
			1	99	21.50	21.30	21.01	21.20
			50	0	20.50	20.21	20.20	20.24
			50	24	20.50	20.22	20.19	20.13
			50	49	20.50	20.30	20.14	20.20
			100	0	20.50	20.19	20.11	20.21

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		40065/2537.5	40370/2568	40640/2595	41215/2652.5
LTE Band 41	5MHz	QPSK	1	0	23.50	22.82	22.85	23.38	23.34
			1	12	23.50	22.93	23.22	23.4	23.34
			1	24	23.50	22.91	23.11	23.41	23.22
			12	0	22.00	21.89	21.03	21.96	21.81
			12	6	22.00	21.83	21.11	21.95	21.93
			12	11	22.00	21.86	21.82	21.84	21.75
			25	0	22.00	21.83	21.87	21.83	21.8
		16QAM	1	0	22.00	21.46	21.04	21.62	21.54
			1	12	22.00	21.48	21.12	21.59	21.48
			1	24	22.00	21.43	21.22	21.5	21.45
			12	0	21.00	20.28	20.7	20.51	20.37
			12	6	21.00	20.37	20.17	20.45	20.34

			12	11	21.00	20.31	20.1	20.41	20.31
			25	0	21.00	20.34	20.39	20.56	20.4
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		40090/ 2540	40370/ 2568	40640/ 2595	41190/ 2650
LTE Band 41	10MHz	QPSK	1	0	23.50	21.9	23.26	23.05	22.94
			1	24	23.50	21.89	22.72	22.95	22.91
			1	49	23.50	22.88	23.25	22.92	22.84
			25	0	22.00	21.39	21.34	21.58	21.57
			25	12	22.00	21.39	21.32	21.45	21.48
			25	24	22.00	21.39	21.8	21.48	21.44
			50	0	22.00	21.51	21.21	21.46	21.47
		16QAM	1	0	21.50	21.04	21.13	21.16	21.15
			1	24	21.50	20.98	20.14	21.17	21.09
			1	49	21.50	21	20.25	20.97	20.98
			25	0	21.50	20.04	21.43	20.12	20.1
			25	12	21.50	20.02	20.94	20.06	20.02
			25	24	21.50	20.06	21.49	20.09	20.06
			50	0	21.50	20.07	21.34	20.1	20.06
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		40115/ 2542.5	40370/ 2568	40640/ 2595	41165/ 2647.5
LTE Band 41	15MHz	QPSK	1	0	23.00	22.87	22.69	22.61	22.51
			1	37	23.00	22.91	22.27	22.56	22.54
			1	74	23.00	22.83	22.38	22.45	22.47
			36	0	22.50	21.48	22.14	21.49	21.44
			36	18	22.50	21.4	22.13	21.47	21.38
			36	37	22.50	21.35	21.25	21.28	21.45
			75	0	21.50	21.31	21.05	21.37	21.45
		16QAM	1	0	21.50	21.08	20.65	20.76	20.69
			1	37	21.50	21.03	20.66	20.64	20.64
			1	74	21.50	21.03	20.35	20.48	20.63
			36	0	21.00	20	20.82	20.03	19.96
			36	18	21.00	19.94	19.95	19.91	19.9
			36	37	21.00	19.95	19.93	19.86	19.9
			75	0	20.50	19.94	19.69	20.01	19.92
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		40140/ 2545	40370/ 2568	40640/ 2595	41140/ 2645

LTE Band 41	20MHz	QPSK	1	0	23.50	22.87	22.87	23.08	23.03
			1	49	23.50	22.89	22.92	22.92	23.07
			1	99	23.50	22.84	22.44	22.87	22.99
			50	0	22.50	21.43	21.68	21.6	21.47
			50	24	22.50	21.42	21.49	21.51	21.47
			50	49	22.50	21.45	22.2	21.43	21.51
			100	0	22.00	21.36	21.44	21.54	21.47
		16QAM	1	0	22.00	21	21.99	21.21	21.16
			1	49	22.00	20.99	20.56	21.07	21.15
			1	99	22.00	21.04	21.41	21.07	21.11
			50	0	21.00	20.09	20.5	20.25	20.07
			50	24	21.00	20.02	20.37	20.16	20.18
			50	49	21.00	20.1	20.7	20.07	20.08
			100	0	21.50	20.03	21.2	20.05	20.17

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131979/1710.7	132322/1745	132665/1779.3
LTE Band 66	1.4MHz	QPSK	1	0	23.50	22.45	22.98	23.24
			1	2	23.50	22.46	23.06	23.26
			1	5	23.50	22.60	22.97	23.33
			3	0	23.50	22.61	22.95	23.19
			3	1	23.50	22.64	23.01	23.23
			3	2	23.50	22.54	22.94	23.17
			6	0	22.50	21.58	21.92	22.14
		16QAM	1	0	23.00	21.48	22.61	22.55
			1	2	23.00	21.44	22.63	22.56
			1	5	23.00	21.44	22.70	22.55
			3	0	22.50	21.77	22.06	22.45
			3	1	22.50	21.78	22.18	22.37
			3	2	22.50	21.71	22.07	22.34
			6	0	21.00	20.42	20.50	20.99
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711.5	132322/1745	132657/1778.5
LTE Band 66	3MHz	QPSK	1	0	23.50	22.70	23.06	23.30
			1	7	23.50	22.70	22.98	23.25
			1	14	23.50	22.63	23.06	23.25

				8	0	22.50	21.64	21.95	22.16
				8	4	22.50	21.62	21.86	22.25
				8	7	22.50	21.53	21.82	22.24
				15	0	22.50	21.57	21.95	22.20
			16QAM	1	0	23.00	22.15	22.76	22.64
				1	7	23.00	22.07	22.76	22.70
				1	14	23.00	21.88	22.60	22.60
				8	0	21.50	20.80	21.02	21.45
				8	4	21.50	20.73	21.09	21.42
				8	7	21.50	20.78	21.12	21.43
				15	0	21.50	20.72	21.05	21.35
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		131997/1712.5	132322/1745	132647/1777.5	
LTE Band 66	5MHz	QPSK	1	0	24.00	22.73	23.28	23.54	
			1	12	24.00	22.65	23.24	23.61	
			1	24	24.00	22.69	23.35	23.57	
			12	0	22.50	21.46	21.89	22.13	
			12	6	22.50	21.55	22.07	22.25	
			12	11	22.50	21.67	21.87	22.13	
			25	0	22.50	21.59	21.86	22.15	
		16QAM	1	0	22.50	22.02	21.89	22.22	
			1	12	22.50	22.05	21.97	22.19	
			1	24	22.50	22.03	21.96	22.21	
			12	0	21.50	20.68	20.99	21.27	
			12	6	21.50	20.58	21.05	21.38	
			12	11	21.50	20.56	21.06	21.28	
			25	0	22.00	20.63	21.17	21.50	
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		132022/1715	132322/1745	132622/1775	
LTE Band 66	10MHz	QPSK	1	0	23.50	22.61	22.91	23.37	
			1	24	23.50	22.59	22.82	23.32	
			1	49	23.50	22.82	22.94	23.37	
			25	0	22.50	21.57	21.95	22.15	
			25	12	22.50	21.56	21.92	22.25	
			25	24	22.50	21.69	21.90	22.27	
			50	0	22.50	21.62	21.93	22.15	

		16QAM	1	0	23.00	22.05	22.14	22.64
			1	24	23.00	22.01	22.15	22.73
			1	49	23.00	22.08	22.34	22.66
			25	0	21.50	20.64	20.98	21.27
			25	12	21.50	20.60	20.99	21.32
			25	24	21.50	20.70	20.96	21.30
			50	0	21.50	20.65	21.01	21.32
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5
LTE Band 66	15MHz	QPSK	1	0	23.50	22.59	22.83	23.23
			1	37	23.50	22.76	22.95	23.30
			1	74	23.50	22.85	23.01	23.28
			36	0	22.50	21.63	21.86	22.16
			36	18	22.50	21.68	21.84	22.08
			36	37	22.50	21.73	22.01	22.20
			75	0	22.50	21.73	21.94	22.18
		16QAM	1	0	23.00	21.98	22.20	22.62
			1	37	23.00	22.12	22.38	22.71
			1	74	23.00	22.32	22.25	22.57
			36	0	21.50	20.63	20.91	21.24
			36	18	21.50	20.67	20.91	21.26
			36	37	21.50	20.77	20.99	21.23
			75	0	21.50	20.78	21.00	21.20
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132072/1720	132322/1745	132572/1770
LTE Band 66	20MHz	QPSK	1	0	24.00	22.86	23.08	23.40
			1	49	24.00	22.94	23.12	23.50
			1	99	24.00	23.27	23.36	23.47
			50	0	23.50	22.58	23.28	22.06
			50	24	23.50	22.62	23.18	22.09
			50	49	23.50	22.81	22.94	22.07
			100	0	23.00	21.72	22.78	22.27
		16QAM	1	0	22.50	21.57	21.94	21.96
			1	49	22.50	21.44	21.98	22.07
			1	99	22.50	21.93	22.21	22.11
			50	0	21.50	20.64	20.93	21.22

			50	24	21.50	20.72	20.96	21.27
			50	49	21.50	20.86	21.06	21.30
			100	0	21.50	20.78	20.98	21.28

7.4. WLAN Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	15.00	14.17
	6	2437	15.00	14.82
	11	2462	15.00	14.21
802.11g	1	2412	14.00	13.71
	6	2437	14.00	13.44
	11	2462	14.00	13.93
802.11n HT20	1	2412	14.50	13.82
	6	2437	14.50	13.63
	11	2462	14.50	14.16

NOTE: Power measurement results of WLAN 2.4G.

8. SAR Results

8.1. SAR measurement Result

- 1.) The scaled SAR = Measured SAR(W/kg) * Duty Cycle Scaled factor * Scaled factor
- 2.) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.

8.1.1. SAR measurement Result of GSM850

Test Position	Test channel /Freq.	Mode	Separation distance(mm)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
Front-of-face	189/836.4	GPRS(GMSK 2TS)	10	0.338	0.196	-2.41	29.67	30.00	0.365	2026/1/05	2#

NOTE: 1.Body SAR test results of GSM850

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(mm)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
Limb-worn	189/836.4	GPRS(GMSK 2TS)	0	1.005	0.567	-2.10	29.67	30.00	0.612	2026/1/05	1#

NOTE: 1. Limb SAR test results of GSM850

2.Tested by : Jack Peng

8.1.2. SAR measurement Result of GSM1900

Test Position	Test channel /Freq.	Mode	Separation distance(mm)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
Front-of-face	661/1880	GPRS(GMSK 2TS)	10	0.401	0.231	-0.77	27.06	27.50	0.444	2026/1/07	3#

NOTE: 1.Body SAR test results of GSM1900

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(mm)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
Limb-worn	661/1880	GPRS(GMSK 2TS)	0	3.038	1.573	4.34	27.06	27.50	1.741	2026/1/07	4#

		2TS)									
--	--	------	--	--	--	--	--	--	--	--	--

NOTE: 1. Limb SAR test results of GSM1900

2. Tested by : Jack Peng

8.1.3. SAR measurement Result of WCDMA Band 2

Test Position	Test channel /Freq.	Mode	Separation distance(mm)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
Front-of-face	9400/1880	RMC12.2K	10	0.588	0.346	1.77	23.06	23.50	0.651	2026/1/07	6#

NOTE: 1. Body SAR test results of WCDMA Band 2

2. Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(mm)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
Limb-worn	9400/1880	RMC12.2K	0	1.455	0.806	0.91	23.06	23.50	0.892	2026/1/07	5#

NOTE: 1. Limb SAR test results of WCDMA Band 2

2. Tested by : Jack Peng

8.1.4. SAR measurement Result of WCDMA Band 4

Test Position	Test channel /Freq.	Mode	Separation distance(mm)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
Front-of-face	1413/1732.6	RMC12.2K	10	0.656	0.353	-0.04	21.86	22.50	0.760	2026/1/06	7#

NOTE: 1. Body SAR test results of WCDMA Band 4

2. Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(mm)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
Limb-worn	1413/1732.6	RMC12.2K	0	1.187	0.679	-0.26	21.86	22.50	0.787	2026/1/06	8#

NOTE: 1. Limb SAR test results of WCDMA Band 4

2. Tested by : Jack Peng

8.1.5. SAR measurement Result of WCDMA Band 5

Test Position	Test channel /Freq.	Mode	Separation distance(mm)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
Front-of-face	4182/836.4	RMC12.2K	10	0.883	0.519	-0.22	22.47	23.00	0.998	2025/12/27	9#
Front-of-face	4182/836.4	RMC12.2K	10	0.714	0.435	-1.68	22.52	23.00	0.797	2025/12/27	
Front-of-face	4182/836.4	RMC12.2K	10	0.818	0.496	-2.91	22.56	23.00	0.905	2025/12/27	
Front-of-face Repeated	4182/836.4	RMC12.2K	10	0.824	0.510	-1.22	22.47	23.00	0.931	2025/12/27	

NOTE: 1.Body SAR test results of WCDMA Band 4

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(mm)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
Limb-worn	4182/836.4	RMC12.2K	0	2.452	1.405	-0.58	22.47	23.00	1.587	2025/12/27	10#

NOTE: 1. Limb SAR test results of WCDMA Band 4

2.Tested by : Jack Peng

8.1.6. SAR measurement Result of LTE Band 2

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
	1RB										
Front-of-face	18900/1880	20M QPSK(1,99)	10	0.770	0.465	-0.48	23.29	24.00	0.907	2026/1/07	13#
Front-of-face	18900/1880	20M QPSK(1,99)	10	0.754	0.451	-1.62	23.47	24.00	0.852	2026/1/07	
Front-of-face	18900/1880	20M QPSK(1,99)	10	0.745	0.436	-3.81	23.55	24.00	0.826	2026/1/07	
Front-of-face Repeated	18900/1880	20M QPSK(1,99)	10	0.729	0.409	-3.81	23.55	24.00	0.809	2026/1/07	
50%RB											
Front-of-face	18900/1880	20M QPSK(50,24)	10	0.514	0.268	-2.61	22.28	23.50	0.681	2026/1/07	
100%RB											
Front-of-face	18900/188	20M	10	0.398	0.174	-1.62	22.20	22.50	0.426	2026/1/07	

	0	QPSK(100,0)									
--	---	-------------	--	--	--	--	--	--	--	--	--

NOTE: 1.Body SAR test results of LTE Band 2

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Limb-worn	18900/188 0	20M QPSK(1,99)	0	2.382	1.298	0.13	23.29	24.00	1.529	2026/1/07	14#
50%RB											
Limb-worn	18900/188 0	20M QPSK(50,24)	0	1.951	1.061	-2.61	22.28	23.50	1.405	2026/1/07	

NOTE: 1. Limb SAR test results of LTE Band 2

2.Tested by : Jack Peng

8.1.7. SAR measurement Result of LTE Band 4

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
				1RB							
Front-of-face	20175/173 2.5	20M QPSK(1,99)	10	0.361	0.208	-1.80	23.38	23.50	0.371	2026/1/06	16#
50%RB											
Front-of-face	20175/173 2.5	20M QPSK(50,0)	10	0.321	0.191	-1.47	23.10	23.50	0.352	2026/1/06	

NOTE: 1.Body SAR test results of LTE Band 4

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Limb-worn	20175/173 2.5	20M QPSK(1,99)	0	1.365	0.777	-3.87	23.38	23.50	0.799	2026/1/06	15#
50%RB											
Limb-worn	20175/173 2.5	20M QPSK(50,0)	0	1.164	0.712	2.31	23.10	23.50	0.781	2026/1/06	

NOTE: 1. Limb SAR test results of LTE Band 4
2. Tested by : Jack Peng

8.1.8. SAR measurement Result of LTE Band 5

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Front-of-face	20525/836. 5	10M QPSK(1,0)	10	0.596	0.353	-0.23	23.01	23.50	0.395	2026/1/05	18#
50%RB											
Front-of-face	20525/836. 5	10M QPSK(25,12)	10	0.312	0.157	-1.25	22.40	22.50	0.161	2026/1/05	

NOTE: 1. Body SAR test results of LTE Band 5
2. Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Limb-worn	20525/836. 5	10M QPSK(1,0)	0	2.433	1.427	-0.56	23.01	23.50	1.597	2026/1/05	17#
50%RB											
Limb-worn	20525/836. 5	10M QPSK(25,12)	0	1.974	1.051	-1.74	22.40	22.50	1.075	2026/1/05	

NOTE: 1. Limb SAR test results of LTE Band 5
2. Tested by : Jack Peng

8.1.9. SAR measurement Result of LTE Band 7

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Front-of-face	21100/2535	20M QPSK(1,99)	10	0.555	0.263	3.69	23.58	24.00	0.611	2026/1/04	19#
50%RB											
Front-of-face	21100/2535	20M	10	0.314	0.153	-2.51	22.28	23.00	0.371	2026/1/04	

QPSK(50,24)

NOTE: 1.Body SAR test results of LTE Band 7

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Limb-worn	21100/2535	20M QPSK(1,99)	0	2.230	0.978	-0.20	23.58	24.00	1.077	2026/1/04	20#
50%RB											
Limb-worn	21100/2535	20M QPSK(50,24)	0	1.894	0.735	-1.81	22.28	23.00	0.868	2026/1/04	

NOTE: 1. Limb SAR test results of LTE Band 7

2.Tested by : Jack Peng

8.1.10. SAR measurement Result of LTE Band 12

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Front-of-face	23095/707. 5	10M QPSK(1,0)	10	0.193	0.118	2.48	22.98	23.00	0.194	2025/12/27	21#
50%RB											
Front-of-face	23095/707. 5	10M QPSK(25,12)	10	0.152	0.076	1.32	22.06	22.50	0.168	2025/12/27	

NOTE: 1.Body SAR test results of LTE Band 12

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Limb-worn	23095/707. 5	10M QPSK(1,0)	0	0.845	0.507	-0.15	22.98	23.00	0.509	2025/12/27	22#
50%RB											
Limb-worn	23095/707. 5	10M QPSK(25,12)	0	0.621	0.372	-0.28	22.06	22.50	0.412	2025/12/27	

NOTE: 1. Limb SAR test results of LTE Band 12
2. Tested by : Jack Peng

8.1.11. SAR measurement Result of LTE Band 13

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
				1RB							
Front-of-face	23230/782	10M QPSK(1,24)	10	0.541	0.316	-1.30	23.87	24.00	0.557	2025/12/27	24#
50%RB											
Front-of-face	23230/782	10M QPSK(25,24)	10	0.241	0.124	-1.68	22.08	22.50	0.265	2025/12/27	

NOTE: 1. Body SAR test results of LTE Band 13
2. Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Limb-worn	23230/782	10M QPSK(1,24)	0	1.839	1.081	-0.83	23.87	24.00	1.114	2025/12/27	23#
50%RB											
Limb-worn	23230/782	10M QPSK(25,24)	0	1.354	0.647	-1.42	22.08	22.50	0.713	2025/12/27	

NOTE: 1. Limb SAR test results of LTE Band 13
2. Tested by : Jack Peng

8.1.12. SAR measurement Result of LTE Band 17

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Front-of-face	23790/710	10M QPSK(1,0)	10	0.269	0.161	1.36	23.17	23.50	0.290	2025/12/27	25#
50%RB											
Front-of-face	23790/710	10M	10	0.138	0.065	-1.45	21.99	22.50	0.155	2025/12/27	

		QPSK(25,0)									
--	--	------------	--	--	--	--	--	--	--	--	--

NOTE: 1.Body SAR test results of LTE Band 17

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Limb-worn	23790/710	10M QPSK(1,0)	0	0.421	0.255	-1.19	23.17	23.50	0.275	2025/12/27	26#
50%RB											
Limb-worn	23790/710	10M QPSK(25,0)	0	0.228	0.114	-2.31	21.99	22.50	0.128	2025/12/27	

NOTE: 1. Limb SAR test results of LTE Band 17

2.Tested by : Jack Peng

8.1.13. SAR measurement Result of LTE Band 38

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Front-of-face	38000/2595	20M QPSK(1,0)	10	0.277	0.133	-1.39	23.11	23.50	0.303	2026/1/04	28#
50%RB											
Front-of-face	38000/2595	20M QPSK(50,0)	10	0.187	0.095	-2.11	22.59	23.00	0.206	2026/1/04	

NOTE: 1.Body SAR test results of LTE Band 38

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Limb-worn	38000/259 5	20M QPSK(1,0)	0	1.023	0.455	0.38	23.11	23.50	0.498	2026/1/04	27#
50%RB											
Limb-worn	38000/259 5	20M QPSK(50,0)	0	0.741	0.328	1.44	22.59	23.00	0.360	2026/1/04	

NOTE: 1. Limb SAR test results of LTE Band 38

2. Tested by : Jack Peng

8.1.14. SAR measurement Result of LTE Band 41

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Front-of-face	40620/2593	20M QPSK(1,0)	10	0.283	0.132	-3.18	23.08	23.50	0.312	2026/1/04	30#
50%RB											
Front-of-face	40620/2593	20M QPSK(50,0)	10	0.102	0.048	-2.44	21.60	22.50	0.125	2026/1/04	

NOTE: 1. Body SAR test results of LTE Band 41

2. Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Limb-worn	40620/259 3	20M QPSK(1,0)	0	1.030	0.452	-2.49	23.08	23.50	0.498	2026/1/04	29#
50%RB											
Limb-worn	40620/259 3	20M QPSK(50,0)	0	0.547	0.261	-1.47	21.60	22.50	0.321	2026/1/04	

NOTE: 1. Limb SAR test results of LTE Band 41

2. Tested by : Jack Peng

8.1.15. SAR measurement Result of LTE Band 66

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Front-of-face	132322/1745	20M QPSK(1,99)	10	0.622	0.367	-1.23	23.36	23.50	0.642	2026/1/06	31#
50%RB											
Front-of-face	132322/1745	20M QPSK(50,0)	10	0.547	0.241	-1.72	23.28	23.50	0.575	2026/1/06	

NOTE: 1.Body SAR test results of LTE Band 66

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
1RB											
Limb-worn	132322/17 45	20M QPSK(1,99)	0	2.515	1.394	2.26	23.36	23.50	1.440	2026/1/06	32#
50%RB											
Limb-worn	132322/17 45	20M QPSK(50,0)	0	2.142	1.068	1.61	23.28	23.50	1.123	2026/1/06	

NOTE: 1. Limb SAR test results of LTE Band 66

2.Tested by : Jack Peng

8.1.16. SAR measurement Result of WLAN 2.4G

9. Test Positi on	Test channel /Freq.	Mode	Separation distance(m) m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
				1-g	10-g						
Front-of-face	6/2437	802.11b	10	0.529	0.279	1.25	14.82	15.00	0.551	2025/12/30	11#

NOTE: 1.Body SAR test results of WLAN 2.4G

2.Tested by : Jack Peng

Test Position	Test channel /Freq.	Mode	Separation distance(m) m)	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 10-g (W/Kg)	Date	Plot
				1-g	10-g						
Limb-worn	6/2437	802.11b	0	1.049	0.516	-0.31	14.82	15.00	0.538	2025/12/30	12#

NOTE: 1.Extremity SAR test results of WLAN 2.4G

2.Tested by : Jack Peng

9.1. Simultaneous Transmission Analysis

Per KDB 447498 D01, simultaneous transmission SAR is compliant if,

- 1) Scalar SAR summation $< 1.6\text{W/kg}$.
- 2) $\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. If $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Exposure Position	WWAN Band	WLAN Band	Simultaneous Tx SAR(W/Kg)
	SAR(W/Kg)	SAR(W/Kg)	
Front-of-face	0.907	0.551	1.458
Limb-worn	1.741	0.538	2.279

Note: Only the MIMO mode can transmit simultaneously.

10. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

11. Appendix B. System Check Plots

Table of contents
MEASUREMENT 1 System Performance Check - 750MHz
MEASUREMENT 2 System Performance Check - 835MHz
MEASUREMENT 3 System Performance Check - 1800MHz
MEASUREMENT 4 System Performance Check - 1900MHz
MEASUREMENT 5 System Performance Check - 2450MHz
MEASUREMENT 6 System Performance Check -2600MHz

1# System check at 750 MHz

Date of measurement: 27/12/2025

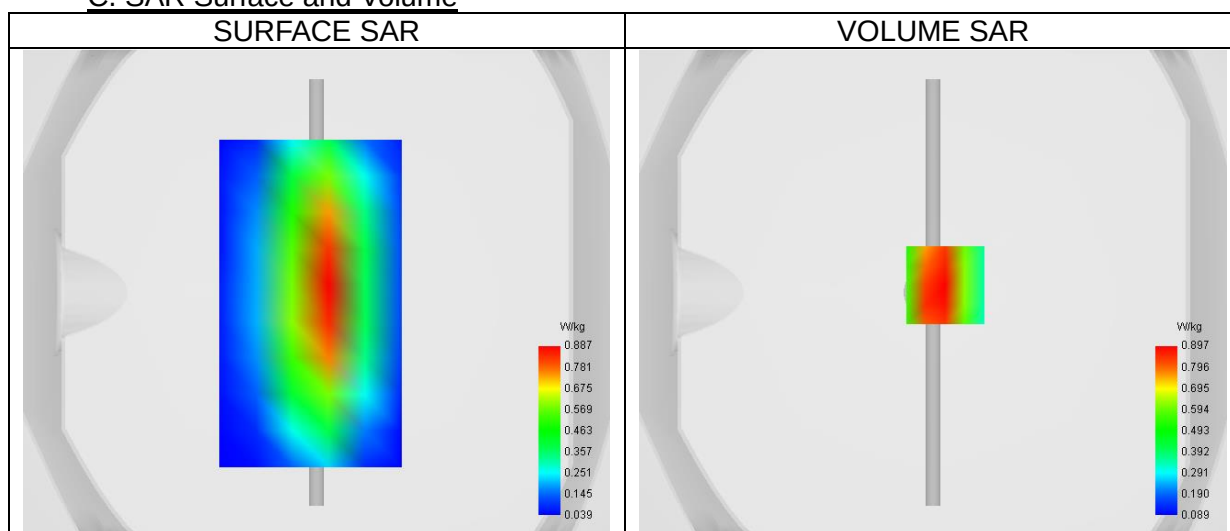
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.39
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	750.00
Relative permittivity (real part)	40.40
Relative permittivity (imaginary part)	21.40
Conductivity (S/m)	0.89

C. SAR Surface and Volume



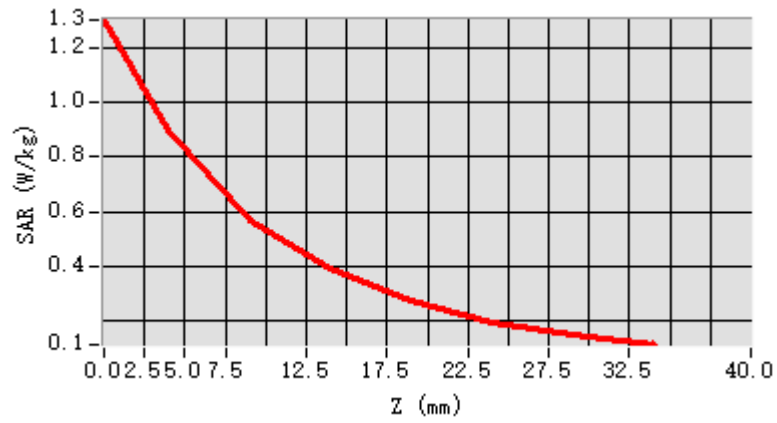
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 1.35 W/kg

D. SAR 1g & 10g

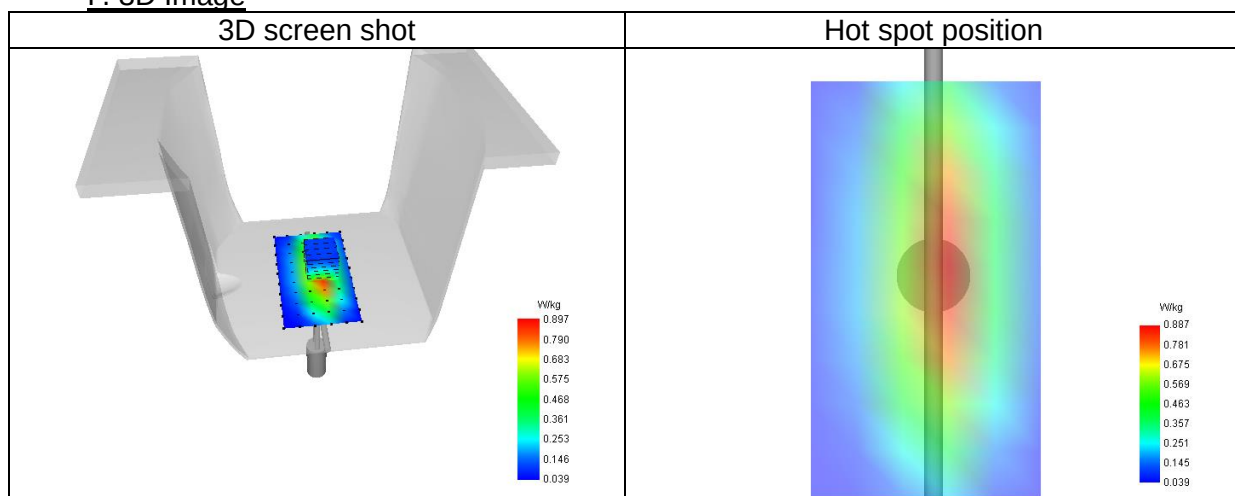
SAR 10g (W/Kg)	0.505
SAR 1g (W/Kg)	0.888
Variation (%)	-0.12
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	63.50

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.301	0.897	0.570	0.392	0.272	0.194	0.149



F. 3D Image



2# System check at 835 MHz
Date of measurement: 5/1/2026

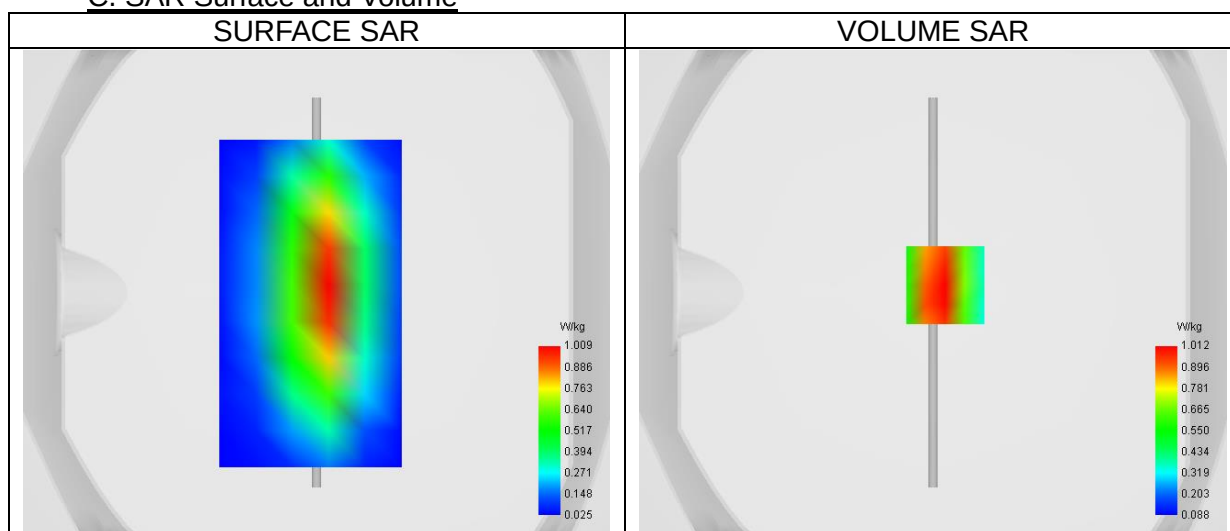
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	835.00
Relative permittivity (real part)	41.13
Relative permittivity (imaginary part)	19.14
Conductivity (S/m)	0.89

C. SAR Surface and Volume



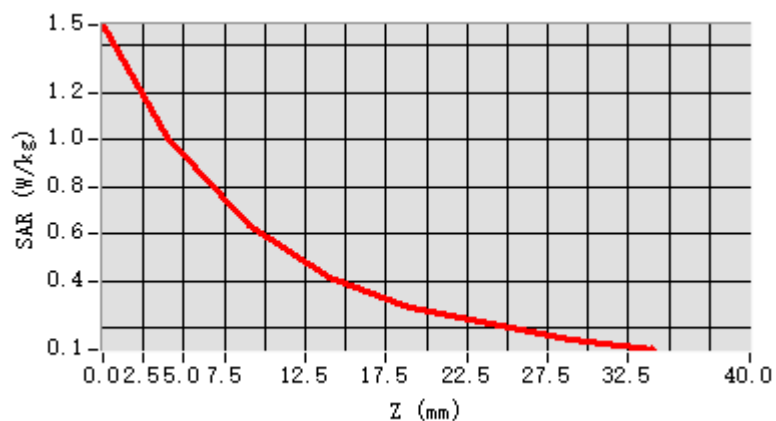
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 1.54 W/kg

D. SAR 1g & 10g

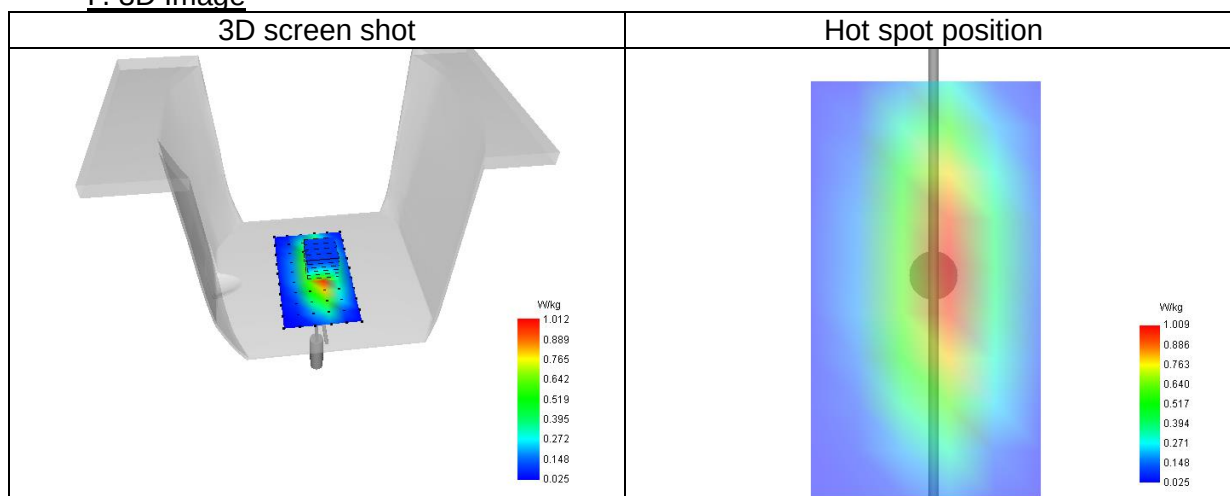
SAR 10g (W/Kg)	0.590
SAR 1g (W/Kg)	0.986
Variation (%)	0.01
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	62.55

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.487	1.012	0.633	0.415	0.286	0.217	0.153



F. 3D Image



3# System check at 1800 MHz

Date of measurement: 6/1/2026

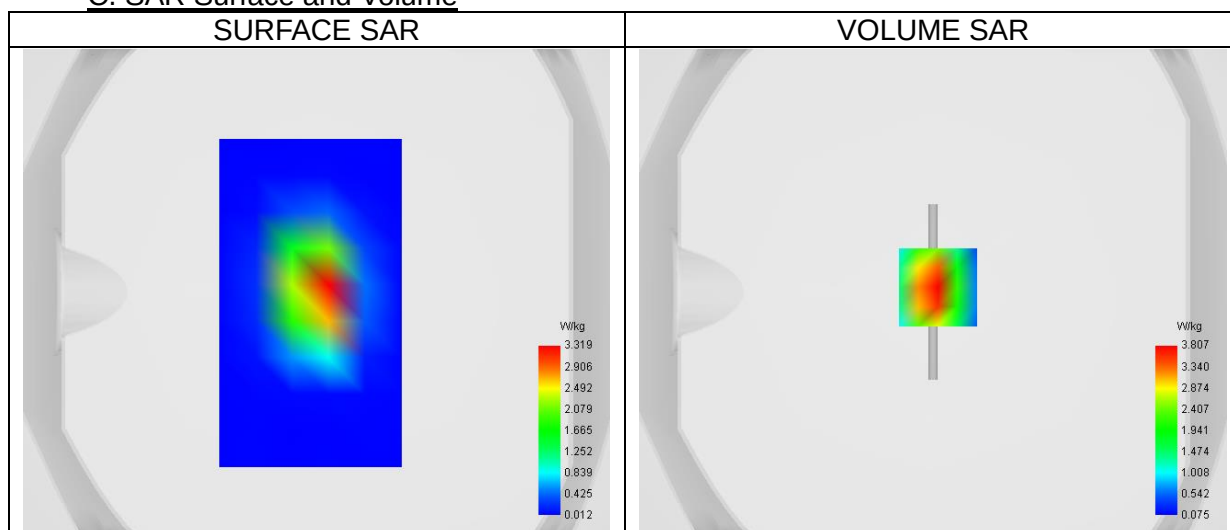
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.50
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1800.00
Relative permittivity (real part)	39.88
Relative permittivity (imaginary part)	13.96
Conductivity (S/m)	1.40

C. SAR Surface and Volume



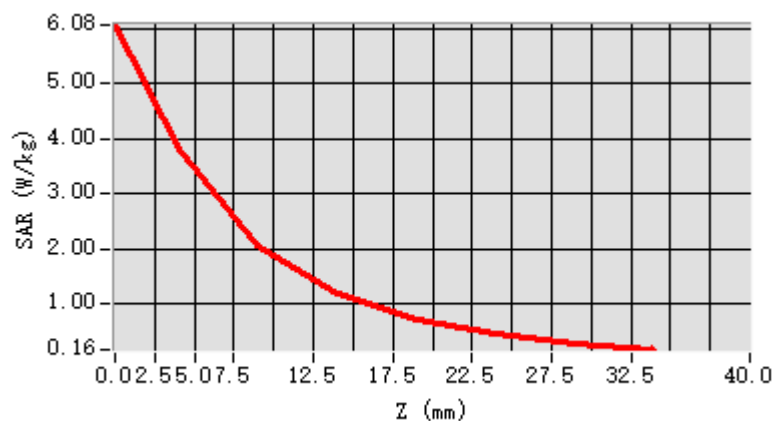
Maximum location: X=2.00, Y=2.00 ; SAR Peak: 6.23 W/kg

D. SAR 1g & 10g

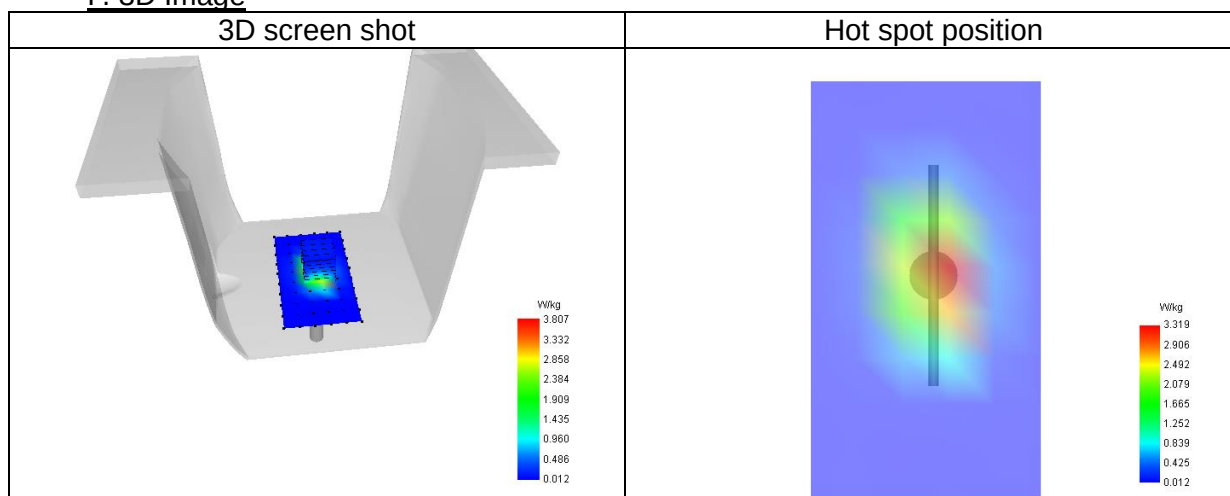
SAR 10g (W/Kg)	1.842
SAR 1g (W/Kg)	3.644
Variation (%)	0.16
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	54.39

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.078	3.807	2.070	1.187	0.696	0.432	0.270



F. 3D Image



4# System check at 1900 MHz
Date of measurement: 7/1/2026

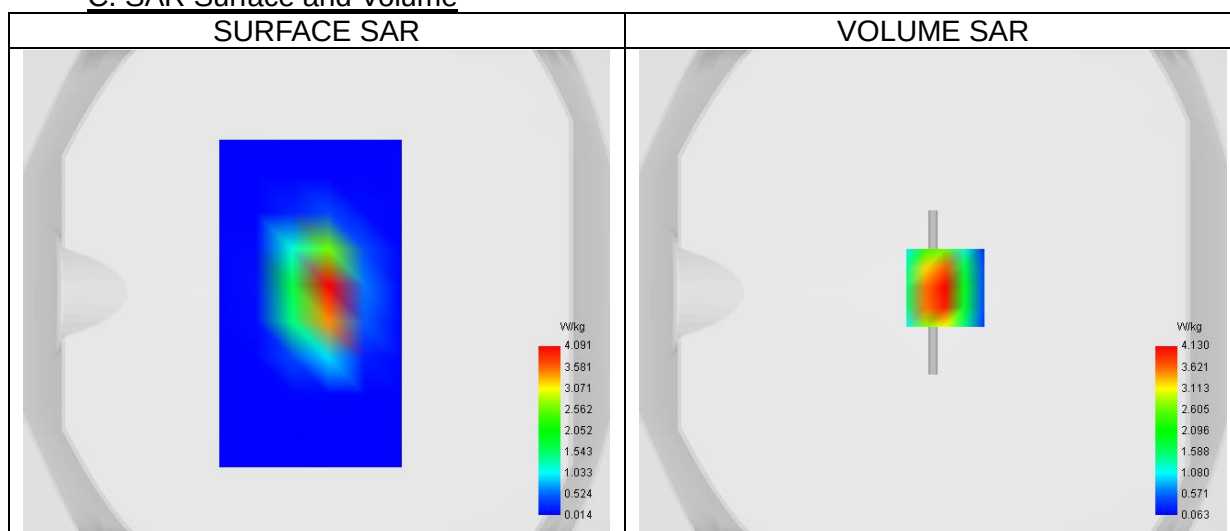
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.58
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1900.00
Relative permittivity (real part)	38.38
Relative permittivity (imaginary part)	13.76
Conductivity (S/m)	1.45

C. SAR Surface and Volume



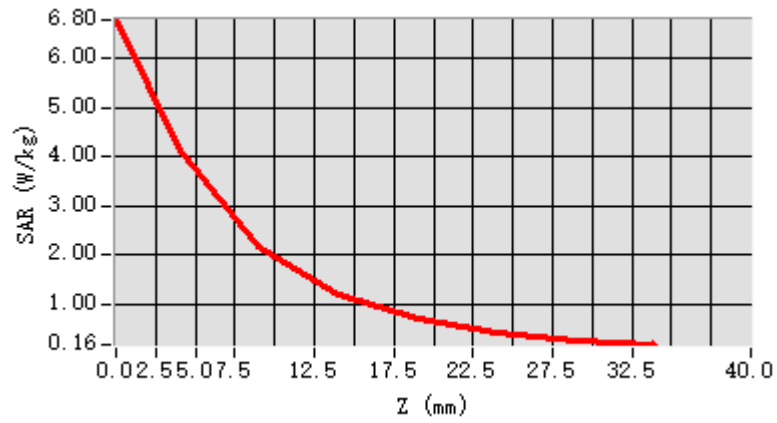
Maximum location: X=5.00, Y=2.00 ; SAR Peak: 7.16 W/kg

D. SAR 1g & 10g

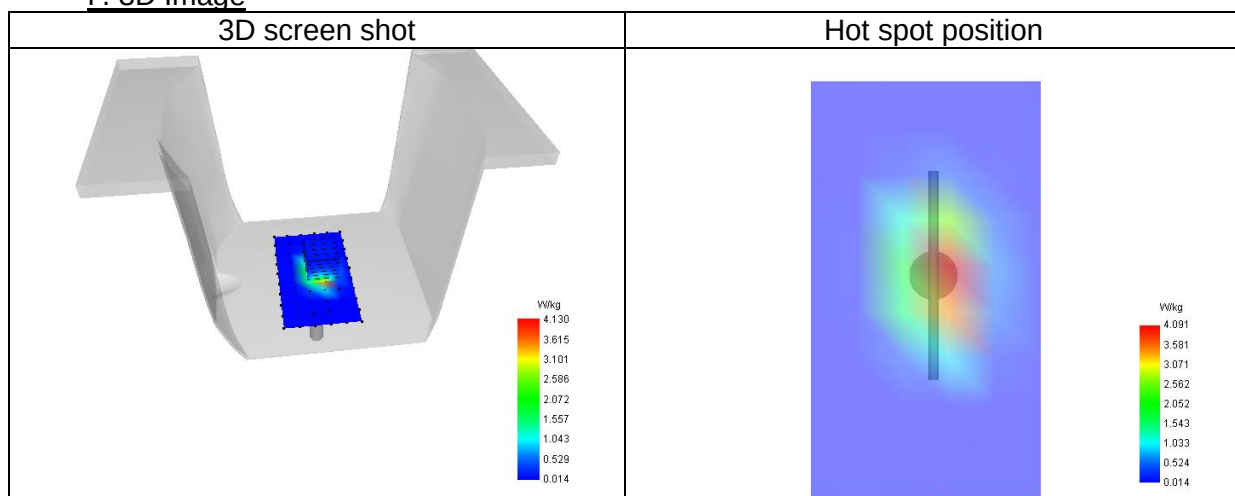
SAR 10g (W/Kg)	1.984
SAR 1g (W/Kg)	4.172
Variation (%)	0.16
Horizontal validation criteria: minimum distance (mm)	8.00
Vertical validation criteria: SAR ratio M2/M1 (%)	52.42

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.797	4.130	2.165	1.199	0.702	0.417	0.249



F. 3D Image



5# System check at 2450 MHz
Date of measurement: 30/12/2025

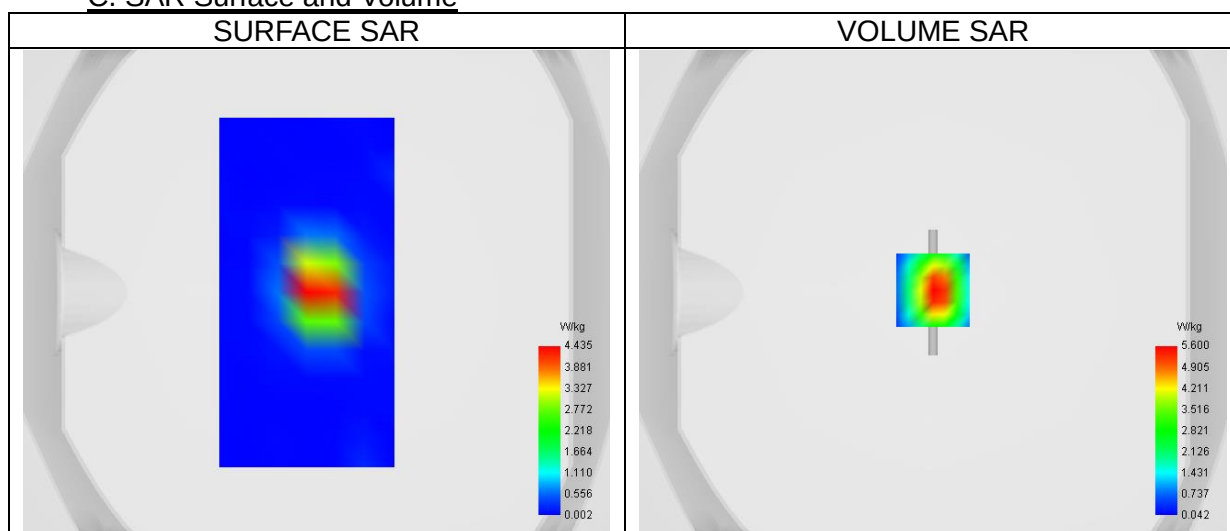
A. Experimental conditions.

Probe	0725-EPGO-448
ConvF	1.63
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2450.00
Relative permittivity (real part)	37.65
Relative permittivity (imaginary part)	13.53
Conductivity (S/m)	1.84

C. SAR Surface and Volume



Maximum location: X=0.00, Y=1.00 ; SAR Peak: 9.77 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	2.293
SAR 1g (W/Kg)	5.258
Variation (%)	-0.34
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	47.72

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.662	5.600	2.672	1.328	0.668	0.349	0.168