

TEST REPORT

Reference No..... : WTX23X05101641W010
FCC ID : 2BAQOSC55G
Applicant : Beijing Speedata Technology Co.,Ltd
Address : Office 01-2 08, Block D, 8 / F, Building 1-4, Yard A, 18 Zhongguancun South
Street, Haidian District, Beijing.
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : Wireless data terminal
Model No..... : SC55G
FCC Part 2.1093
Standards : IEEE Std C95.1: 2019
IEEE Std C95.3: 2002 + Rev. 2008
IEC/IEEE 62209-1528 Ed. 1.0 (2020-10)
Date of Receipt sample : 2023-09-10
Date of Test..... : 2023-09-10 to 2023-10-24
Date of Issue : 2023-10-25
Test Report Form No. : WTX_IEEE_1528W
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China
Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:

Jack Sun

Jack Sun

Approved by:

Silin Chen

Silin Chen

TABLE OF CONTENTS

1. General Information	4
1.1 Product Description for Equipment Under Test (EUT)	4
1.2 Test Standards	8
1.3 Test Methodology	8
1.4 Test Facility	8
2. Summary of Test Results	9
3. Specific Absorption Rate (SAR).....	10
3.1 Introduction.....	10
3.2 SAR Definition	10
4. SAR Measurement System.....	11
4.1 The Measurement System	11
4.2 Probe	11
4.3 Probe Calibration Process.....	13
4.4 Phantom	14
4.5 Device Holder.....	14
4.6 Test Equipment List.....	15
5. Tissue Simulating Liquids.....	16
5.1 Composition of Tissue Simulating Liquid	16
5.2 Tissue Dielectric Parameters for Head and Body Phantoms	17
5.3 Tissue Calibration Result.....	18
6. SAR Measurement Evaluation	19
6.1 Purpose of System Performance Check.....	19
6.2 System Setup	19
6.3 Validation Results.....	21
7. EUT Testing Position	22
7.1 Define Two Imaginary Lines on The Handset.....	22
7.2 Cheek Position	23
7.3 Tilted Position	23
7.4 Body Position	24
7.5 EUT Antenna Position	24
7.6 EUT Testing Position.....	25
8. SAR Measurement Procedures	26
8.1 Measurement Procedures	26
8.2 Spatial Peak SAR Evaluation	26
8.3 Area & Zoom Scan Procedures	27
8.4 Volume Scan Procedures	27
8.5 SAR Averaged Methods	27
8.6 Power Drift Monitoring	27
9. SAR Test Result	28
9.1 Conducted RF Output Power	28
9.2 Test Results for Standalone SAR Test.....	67
9.3 Simultaneous Multi-band Transmission SAR Analysis	82
10. Measurement Uncertainty	87
10.1 Uncertainty for SAR Test.....	87
Annex A. Plots of System Performance Check	89
Annex B. Plots of SAR Measurement	109
Annex C. EUT Photos	191
Annex D. Test Setup Photos	193
Annex E. Calibration Certificate.....	198

Report version

Version No.	Date of issue	Description
Rev.00	2023-10-25	Original
/	/	/

1. General Information

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT:	
Product Name:	Wireless data terminal
Brand Name:	/
Model No.:	SC55G
Adding Model(s):	SC40G, ST55G, SC55PCM, SC55GMD, ST55RT, FG50RT, SC55, SC40, SC35, SD35, SC35G, HT35, FG40, FG50, HC01, GT100, GT100-TY, GT100-HC, GT100-PD, iCT100, SD100, GT55, GT50, GT56, GT60, SC80G, SD100G
Rated Voltage:	DC3.85V
Battery Capacity:	/
Adapter Model	HYX024-U012125XYE Input:100-240v~50/60Hz 0.5A Output:DC5V/7V/9V 1.67A; DC12V1.25A
Software Version:	/
Hardware Version:	/
<i>Note: The test data is gathered from a production sample provided by the manufacturer. The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model SC55G, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT:	
2G	
Support Networks:	GSM, GPRS, EDGE
Support Band:	GSM850/PCS1900
Uplink Frequency:	GSM/GPRS/EDGE 850: 824~849MHz GSM/GPRS/EDGE 1900: 1850~1910MHz
Downlink Frequency:	GSM/GPRS/EDGE 850: 869~894MHz GSM/GPRS/EDGE 1900: 1930~1990MHz
RF Output Power:	GSM850: 32.88dBm, GSM1900: 29.42dBm EDGE850:27.29dBm, EDGE1900: 26.90dBm
Type of Modulation:	GMSK, 8PSK
Type of Antenna:	Integral Antenna
Antenna Gain:	GSM850: -0.63dBi; GSM1900: -0.42dBi
GPRS/EDGE Class:	Class 12
3G	
Support Networks:	WCDMA, HSDPA, HSUPA
Support Band:	WCDMA Band 2, WCDMA Band 5
Uplink Frequency:	WCDMA Band 2: 1850~1910MHz WCDMA Band 5: 824~849MHz
Downlink Frequency:	WCDMA Band 2: 1930~1990MHz WCDMA Band 5: 869~894MHz
RF Output Power:	WCDMA Band 2: 22.10dBm, WCDMA Band 5: 23.54dBm
Type of Modulation:	BPSK, QPSK, 16QAM
Antenna Type:	Integral Antenna
Antenna Gain:	WCDMA Band 2: -0.42dBi, WCDMA Band 5: -0.63dBi
4G	
Support Networks:	FDD-LTE, TDD-LTE
Support Band:	FDD-LTE Band 2, 4, 5, 7, TDD-LTE Band 38, 40, 41
Uplink Frequency:	FDD-LTE Band 2: Tx: 1850-1910MHz, FDD-LTE Band 4: Tx: 1710-1755MHz, FDD-LTE Band 5: Tx: 824-849MHz, FDD-LTE Band 7: Tx:2500-2570MHz TDD-LTE Band 38: Tx: 2570-2620MHz, TDD-LTE Band 40-1: Tx: 2305-2315MHz TDD-LTE Band 40-2: Tx: 2350-2360MHz TDD-LTE Band 41: Tx:2496-2690MHz
Downlink Frequency:	FDD-LTE Band 2: Rx: 1930-1990MHz, FDD-LTE Band 4: Rx: 2110-2155MHz, FDD-LTE Band 5: Rx: 869-894MHz,

	FDD-LTE Band 7: Rx: 2620-2690MHz TDD-LTE Band 38: Rx: 2570-2620MHz, TDD-LTE Band 40-1: Rx: 2305-2315MHz TDD-LTE Band 40-2: Rx: 2350-2360MHz TDD-LTE Band 41: Rx:2496-2690MHz
RF Output Power:	FDD-LTE Band 2: 23.33dBm, FDD-LTE Band 4: 23.79dBm, FDD-LTE Band 5: 22.50dBm, FDD-LTE Band 7: 23.47dBm, TDD-LTE Band 38: 23.82dBm,TDD-LTE Band 40-1: 22.94dBm, TDD-LTE Band 40-2: 22.69dBm, TDD-LTE Band 41: 24.88dBm
Type of Modulation:	QPSK, 16QAM
Antenna Type:	Integral Antenna
Antenna Gain:	FDD-LTE Band 2: -0.42dBi, FDD-LTE Band 4: -0.43dBi, FDD-LTE Band 5: -0.67dBi, FDD-LTE Band 7: -0.39dBi, TDD-LTE Band 38: -0.38dBi, TDD-LTE Band 40-1: -0.36dBi, TDD-LTE Band 40-2: -0.36dBi, TDD-LTE Band 41: -0.42dBi,
WIFI(2.4GHz)	
Support Standards:	802.11b, 802.11g, 802.11n-HT20, 802.11n-HT40
Frequency Range:	2412-2462MHz for 11b/g/n(HT20) 2422-2452MHz for 11n(HT40)
RF Output Power:	16.11dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20) 9 for 802.11n(HT40)
Channel Separation:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0.34dBi
Bluetooth	
Bluetooth Version:	V5.0
Frequency Range:	2402-2480MHz
RF Output Power:	7.01dBm(Conducted)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Quantity of Channels:	79/40
Channel Separation:	1MHz/2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0.34dBi
WIFI(5GHz)	
Support Standards:	802.11a, 802.11n-HT20/40, 802.11ac-VHT20/40/80
Frequency Range:	Band 1: 5180-5240MHz,Band 2: 5260-5320MHz, Band 3: 5500-5700MHz,Band 4: 5745-5825MHz
RF Output Power:	15.23dBm (Conducted)

Type of Modulation:	QPSK, 16QAM, 64QAM, 256QAM
Type of Antenna:	Integral Antenna
Antenna Gain:	0.12dBi
NFC	
Support Standards:	NFC
Frequency Range:	13.56MHz
Max. Field Strength:	58.02dBuV/m (at 3m)
Antenna Type:	Integral Antenna
Antenna Gain	0dBi
<i>Note: The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The following report is accordance with FCC 47 CFR Part 2.1093, IEEE Std C95.1: 2019, IEEE Std C95.3: 2002 + Rev. 2008, IEC/IEEE 62209-1528 Ed. 1.0 (2020-10), KDB 447498 D01 v06, KDB 648474 D04 v01r03, KDB 248227 D01 v02r02, KDB 941225 D01 v03r01, KDB 941225 D05 v02r05 , and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02.

The objective is to determine compliance with FCC Part 2.1093 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which is result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02. The public notice KDB 447498 D01 v06 for Mobile and Portable Devices RF Exposure Procedure also.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010. Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

2. Summary of Test Results

The maximum results of Specific Absorption Rate (SAR) have found during testing are as follows:

Frequency Band	Head SAR	Body-worn (10mm Gap)	Hotspot (10mm Gap)	SAR _{1g} Limit (W/kg)
	Maximum SAR _{1g} (W/kg)	Maximum SAR _{1g} (W/kg)	Maximum SAR _{1g} (W/kg)	
GSM	0.472	0.398	0.629	1.6
WCDMA	0.203	0.466	0.466	1.6
LTE	0.357	0.645	0.645	1.6
WLAN 2.4GHz	0.225	0.166	0.166	1.6
WLAN 5GHz	0.461	0.404	0.404	1.6
Bluetooth	0.082	0.025	0.025	1.6
Simultaneous Transmission	0.933	0.811	0.811	1.6

Remark:

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2.1093 and IEEE Std C95.1: 2019, and had been tested in accordance with the measurement methods and procedure specified in IEC/IEEE 62209-1528 Ed. 1.0 (2020-10) and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02.

3. Specific Absorption Rate (SAR)

3.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

3.2 SAR Definition

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

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

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

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

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

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

4. SAR Measurement System

4.1 The Measurement System

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

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

The following figure shows the system.

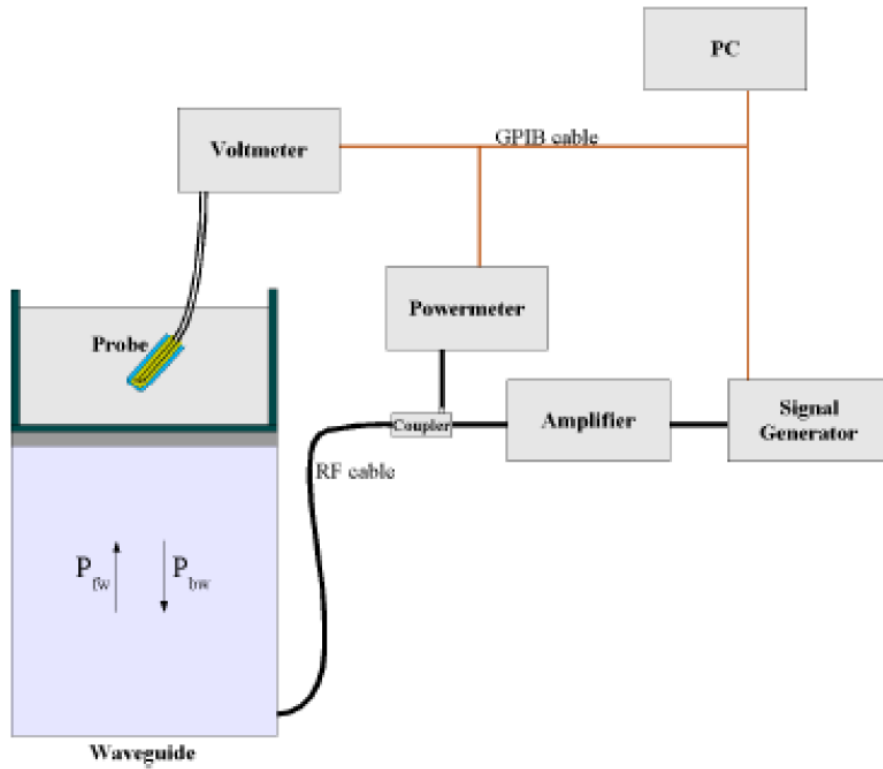


The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

4.2 Probe

For the measurements the Specific Dosimetric E-Field Probe SSE2 SN 18/21 EPG0356, and refer to the calibration report for probe parameters.

Probe calibration is realized, in compliance with EN 62209-1 and IEC/IEEE 62209-1528 Ed. 1.0 (2020-10) STD, with CALISAR, Antenna proprietary calibration system. The calibration is performed with the EN 62209-1 annexes technique using reference guide at the five frequencies.



$$SAR = \frac{4(P_{fw} - P_{bw})}{ab\delta} \cos^2\left(\pi \frac{y}{a}\right) e^{-(2z/\delta)}$$

Where :

P_{fw} = Forward Power

P_{bw} = Backward Power

a and b =Waveguide dimensions

δ = Skin depth

Keithley configuration:

Rate = Medium; Filter = ON; RDGS = 10; Filter type = Moving Average; Range auto after each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it. The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N) = SAR(N)/V_{lin}(N) \quad (N=1,2,3)$$

The linearised output voltage $V_{lin}(N)$ is obtained from the displayed output voltage $V(N)$ using

$$V_{lin}(N) = V(N) * (1 + V(N)/DCP(N)) \quad (N=1,2,3)$$

where DCP is the diode compression point in mV.

4.3 Probe Calibration Process

Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. SATIMO Probe calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an with CALISAR, Antenna proprietary calibration system.

Free Space Assessment Procedure

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1mW/cm².

Temperature Assessment Procedure

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated head tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

Where:
 Δt = exposure time (30 seconds),
 C = heat capacity of tissue (brain or muscle),
 ΔT = temperature increase due to RF exposure.

SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. The electric field in the simulated tissue can be used to estimate SAR by equating the thermally derived SAR to that with the E- field component.

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

Where:

σ = simulated tissue conductivity,

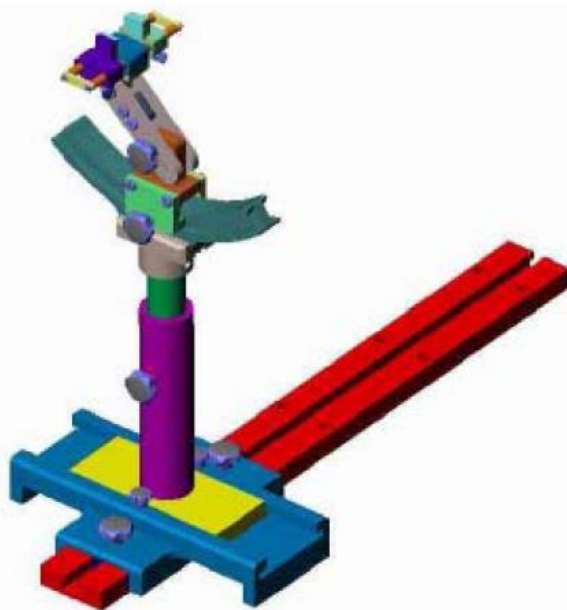
ρ = Tissue density (1.25 g/cm³ for brain tissue)

4.4 Phantom

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

4.5 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°.



System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

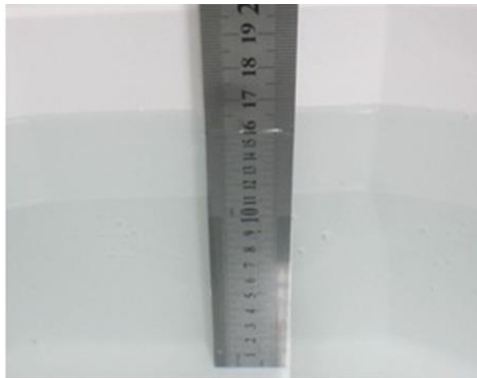
4.6 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
E-Field Probe	MVG	SSE2	SN 18/21 EPGO356	2023-07-07	2024-07-06
835MHz Dipole	MVG	SID835	SN 47/12 DIP 0G835-204	2023-08-20	2026-08-19
1800MHz Dipole	MVG	SID1800	SN 47/12 DIP 1G800-206	2023-08-20	2026-08-19
1900MHz Dipole	MVG	SID1900	SN 47/12 DIP 1G900-207	2023-08-20	2026-08-19
2300 MHz Dipole	MVG	SID2300	SN 47/12 DIP 2G300-209	2023-08-20	2026-08-19
2450MHz Dipole	MVG	SID2450	SN 13/15 DIP 2G450-364	2023-08-20	2026-08-19
2600MHz Dipole	MVG	SID2600	SN 28/21 DIP 2G600-590	2021-07-19	2024-07-18
5 GHz Dipole	MVG	SID5000	SN 02/21 DIP 5G000-543	2021-07-21	2024-07-20
Dielectric Probe	SATIMO	SCLMP	SN 47/12 OCPG49	2023-02-25	2024-02-24
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
Multi Meter	Keithley	Keithley 2000	4006367	2023-02-25	2024-02-24
Power meter	Keithley	3500	JC-2017-09-001(A)	2023-02-25	2024-02-24
Power meter	Keithley	3500	JC-2017-09-001(B)	2023-02-25	2024-02-24
Power Sensor	HP	11636B	JC-2017-10-002	2023-02-25	2024-02-24
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61252892	2023-02-25	2024-02-24
Universal Tester	Rohde & Schwarz	CMU200	112315	2023-02-25	2024-02-24
Universal Radio Communication Tester	Rohde & Schwarz	CMW500	148650	2023-02-25	2024-02-24
Network Analyzer	HP	8753C	2901A00831	2023-02-25	2024-02-24

5. Tissue Simulating Liquids

5.1 Composition of Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with SMTIMO, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. Please see the following photos for the liquid height.



Liquid Height for Head/Body SAR

The Composition of Tissue Simulating Liquid

Frequency (MHz)	Water (%)	Salt (%)	Sugar (%)	HEC (%)	Preventol (%)	DGBE (%)
Head/Body						
835	40.3	1.4	57.9	0.2	0.2	0
1700-1900	55.2	0.3	0	0	0	44.5
2450	55.0	0.1	0	0	0	44.9
2600	54.9	0.1	0	0	0	45.0

Frequency (MHz)	Water (%)	Hexyl Carbitol (%)	Triton X-100 (%)
Head/Body			
5200-5800	78.6	10.7	10.7

5.2 Tissue Dielectric Parameters for Head and Body Phantoms

According to FCC KDBs, IEC/IEEE 62209-1528 Ed. 1.0 (2020-10) and CEI/IEC 62209 standards state that the system validation measurements must be performed using a reference dipole meeting the fore mentioned return loss and mechanical dimension requirements. The validation measurement must be performed against a liquid filled flat phantom, with the phantom constructed as outlined in the fore mentioned standards. Per the standards, the dipole shall be positioned below the bottom of the phantom, with the dipole length centered and parallel to the longest dimension of the flat phantom, with the top surface of the dipole at the described distance from the bottom surface of the phantom.

Target Frequency (MHz)	Head		Body	
	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity (σ)	Permittivity (ϵ_r)
150	0.76	52.3	0.80	61.9
300	0.87	45.3	0.92	58.2
450	0.87	43.5	0.94	56.7
750	0.89	41.9	0.96	55.5
835	0.90	41.5	0.97	55.2
900	0.97	41.5	1.05	55.0
915	0.98	41.5	1.06	55.0
1450	1.20	40.5	1.30	54.0
1610	1.29	40.3	1.40	53.8
1800-2000	1.40	40.0	1.52	53.3
2300	1.67	39.5	1.81	52.9
2450	1.80	39.2	1.95	52.7
2600	1.96	39.0	2.16	52.5
3000	2.40	38.5	2.73	52.0
5200	4.66	36.0	5.30	49.0
5400	4.86	35.8	5.53	48.7
5600	5.07	35.5	5.77	48.5
5800	5.27	35.3	6.00	48.2

5.3 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using COMOSAR Dielectric Probe Kit and an Agilent Network Analyzer.

Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

Head Tissue Simulating Liquid									
Freq. MHz.	Temp. (°C)	Conductivity			Permittivity			Limit (%)	Date
		Reading (σ)	Target (σ)	Delta (%)	Reading (ϵ_r)	Target (ϵ_r)	Delta (%)		
835	22.2	0.88	0.90	-2.22	40.75	41.50	-1.81	±5	2023-09-11
1800	22.3	1.38	1.40	-1.43	39.43	40.00	-1.43	±5	2023-09-12
1900	22.3	1.39	1.40	-0.71	39.06	40.00	-2.35	±5	2023-09-12
2300	22.5	1.63	1.67	-2.40	39.17	39.50	-0.84	±5	2023-09-13
2450	22.4	1.77	1.80	-1.67	38.45	39.20	-1.91	±5	2023-09-14
2600	22.5	1.97	1.96	0.51	37.93	39.00	-2.74	±5	2023-10-21
5200	22.1	4.62	4.66	-0.86	36.18	36.00	0.50	±5	2023-09-15
5400	22.1	4.79	4.86	-1.44	36.51	35.80	1.98	±5	2023-09-15
5600	22.1	5.01	5.07	-1.18	35.46	35.50	-0.11	±5	2023-09-16
5800	22.1	5.18	5.27	-1.71	34.91	35.30	-1.10	±5	2023-09-16

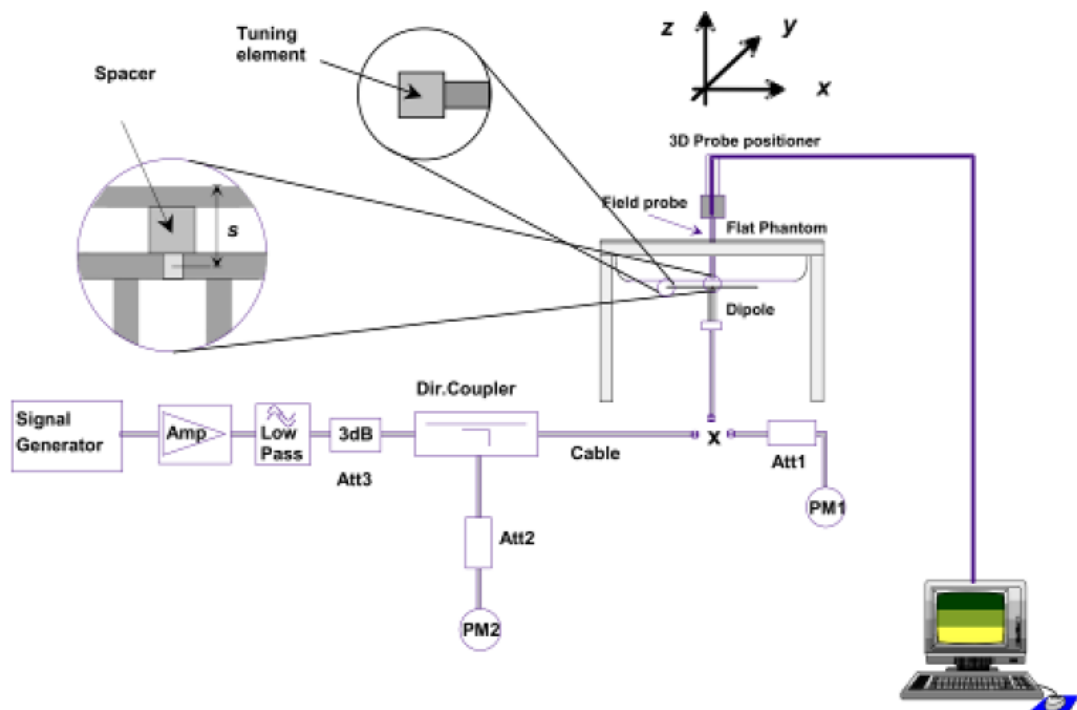
6. SAR Measurement Evaluation

6.1 Purpose of System Performance Check

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

6.2 System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 835MHz, 1800MHz, 1900MHz, 2300MHz, 2450MHz, 2600MHz and 5GHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom.



System Verification Setup Block Diagram



Setup Photo of Dipole Antenna

The output power on dipole port must be calibrated to 24 dBm(250 mW) before dipole is connected.

6.3 Validation Results

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %. Table 6.1 shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion.

Frequency	Power (mw)	Targeted SAR _{1g}	Measured SAR _{1g}	Normalized SAR _{1g}	Tolerance	Date
MHz	(W/kg)	(W/kg)	(W/kg)	(W/kg)	(%)	
835	250	9.65	2.210	8.84	-8.39	2023-09-11
1800	250	38.76	10.223	40.892	5.50	2023-09-12
1900	250	39.59	9.624	38.496	-2.76	2023-09-12
2300	250	49.27	12.126	48.504	-1.55	2023-09-13
2450	250	54.31	13.747	54.988	1.25	2023-09-14
2600	250	56.81	14.815	59.26	4.31	2023-10-21
5200	250	75.31	18.567	74.268	-1.38	2023-09-15
5400	250	79.56	18.979	75.916	-4.58	2023-09-15
5600	250	78.31	19.008	76.032	-2.91	2023-09-16
5800	250	78.05	18.087	72.348	-7.31	2023-09-16

Remark: Referring to IEC/IEEE 62209-1528 Ed. 1.0 (2020-10), the system check shall be performed at a test frequency that is within $\pm 10\%$ or ± 100 MHz of the compliance test mid-band frequency, so the 1750 MHz system verification is made of 1800MHz Dipole.

Targeted and Measurement SAR

Please refer to Annex A for the plots of system performance check.

7. EUT Testing Position

7.1 Define Two Imaginary Lines on The Handset

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

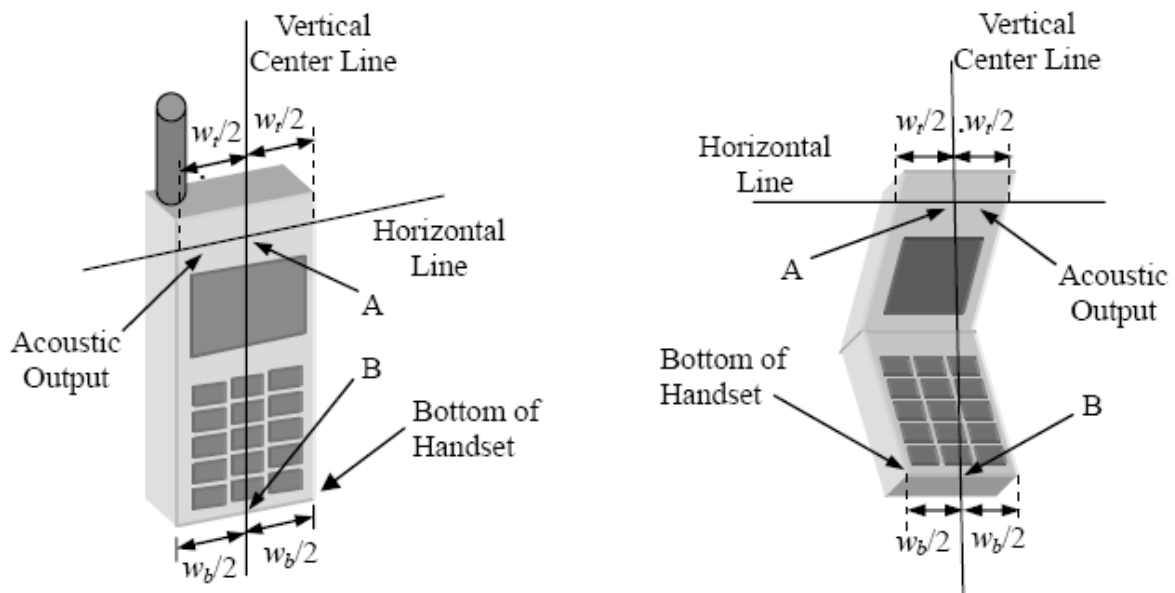


Illustration for Handset Vertical and Horizontal Reference Lines

7.2 Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig. 7.2).

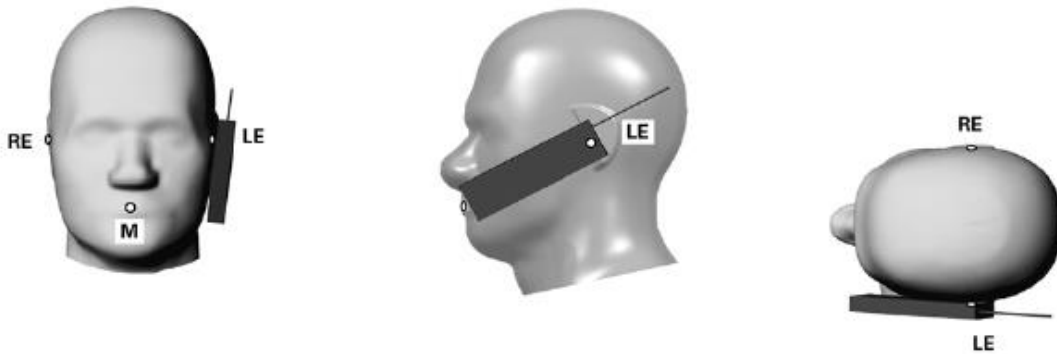


Illustration for Cheek Position

7.3 Tilted Position

(a) To position the device in the “cheek” position described above.

(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig. 7.3).

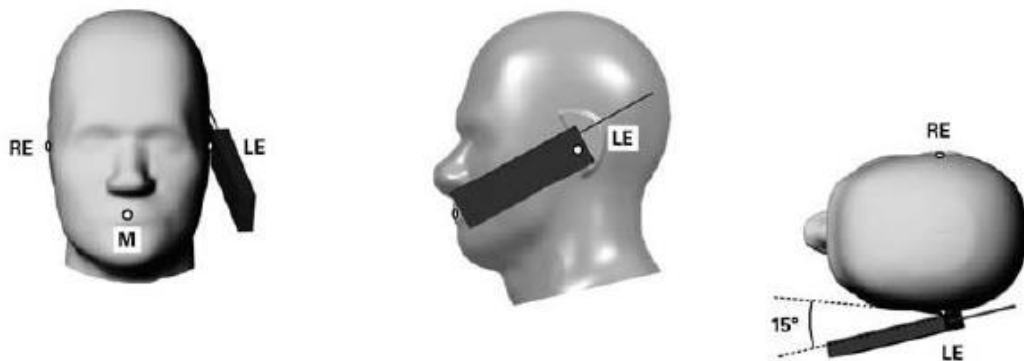


Illustration for Tilted Position

7.4 Body Position

- (a) To position the device parallel to the phantom surface with each side.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 10mm.

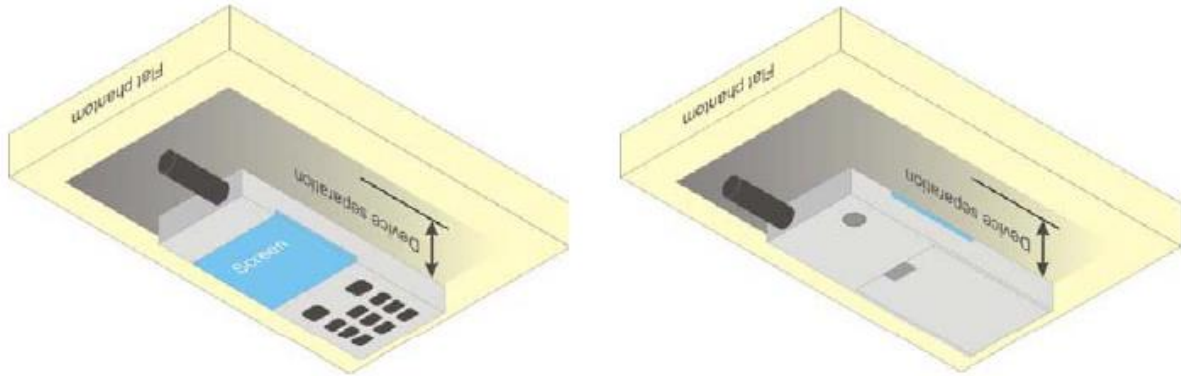
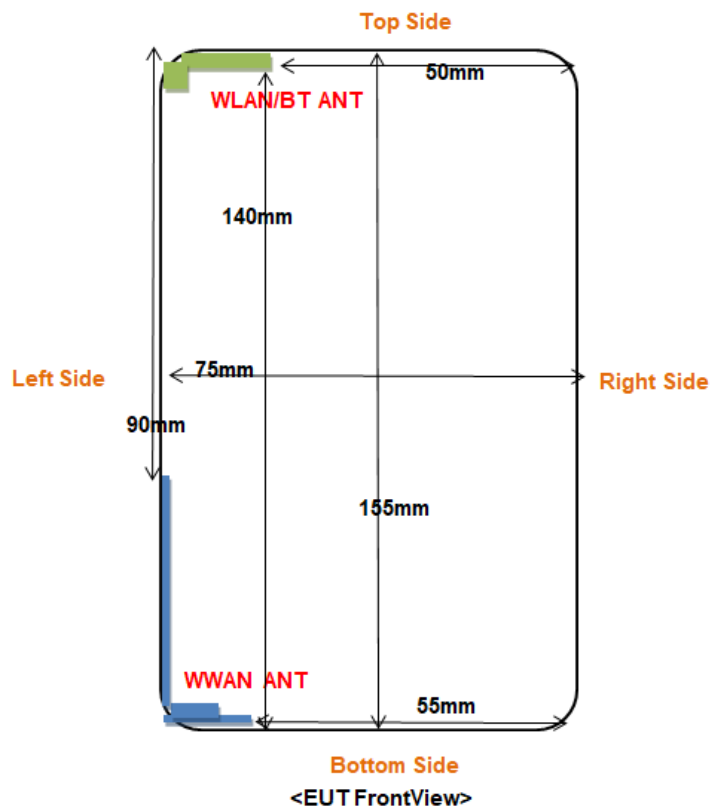


Illustration for Body Position

7.5 EUT Antenna Position



Block Diagram for EUT Antenna Position

Distance of EUT antenna-to-edge/surface(mm), Test distance: 10mm						
Antennas	Back side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
WWAN	<25	<25	<25	50	90	<25
WLAN/BT	<25	<25	<25	55	<25	140

7.6 EUT Testing Position

Head/Body mode SAR assessments are required for this device. This EUT was tested in different positions for different SAR test modes, more information as below:

Head SAR tests				
Antennas	Right Cheek	Left Cheek	Right Tilted	Left Tilted
WWAN	Yes	Yes	Yes	Yes
WLAN/BT	Yes	Yes	Yes	Yes

Body SAR tests, Test distance: 10mm						
Antennas	Front	Back	Right Side	Left Side	Top Side	Bottom Side
WWAN	Yes	Yes	No	Yes	No	Yes
WLAN/BT	Yes	Yes	No	Yes	Yes	No

Remark:

- Referring to KDB 941225 D06, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test separation distances is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge. When the form factor of a handset is smaller than $9\text{ cm} \times 5\text{ cm}$, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode.
- Referring to KDB 648474 D04 Handset SAR v01r03, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2\text{ W/kg}$.

Please refer to Annex D for the EUT test setup photos.

8. SAR Measurement Procedures

8.1 Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as Annex D demonstrates.
- (e) Set scan area, grid size and other setting on the SATIMO software.
- (f) Measure SAR results for the highest power channel on each testing position.
- (g) Find out the largest SAR result on these testing positions of each band
- (h) Measure SAR results for other channels in worst SAR testing position if the 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

8.2 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The SATIMO software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine. The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

8.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

8.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency

bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will

be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing (step-size is 4, 4 and 2.5 mm). When all volume scan were completed, the software can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.5 SAR Averaged Methods

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 minimize 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 1mm 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 10g and 1 g requires a very fine resolution in the three dimensional scanned data array.

8.6 Power Drift Monitoring

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

9. SAR Test Result

9.1 Conducted RF Output Power

GSM - Burst Average Power (dBm)								
Band	GSM850			Tune-up power (dBm)	PCS1900			Tune-up power (dBm)
Channel	128	190	251		512	661	810	
Frequency (MHz)	824.2	836.6	848.8		1850.2	1880	1909.8	
GSM	32.78	32.63	32.88	33.0	29.42	29.35	28.94	29.5
GPRS (1 slot)	32.70	32.52	32.76	33.0	29.40	29.30	28.90	29.5
GPRS (2 slots)	31.84	31.58	31.91	32.0	28.54	28.48	28.13	29.0
GPRS (3 slots)	30.04	29.61	30.03	30.5	26.62	26.56	26.27	27.0
GPRS (4 slots)	28.75	28.28	28.75	29.0	25.43	25.37	25.10	25.5
EDGE (1 slot)	27.29	26.79	27.17	27.5	26.90	26.85	26.62	27.0
EDGE (2 slots)	26.51	25.97	26.38	27.0	25.66	25.75	25.59	26.0
EDGE (3 slots)	24.83	24.31	24.66	25.0	23.45	23.58	23.43	23.5
EDGE (4 slots)	23.83	23.29	23.75	24.0	22.12	22.19	22.06	22.5

GSM - Source-Based Time-Average Power (dBm)								
Band	GSM850			Tune-up power (dBm)	PCS1900			Tune-up power (dBm)
Channel	128	190	251		512	661	810	
Frequency (MHz)	824.2	836.6	848.8		1850.2	1880	1909.8	
GSM	23.78	23.63	23.88	24.0	20.42	20.35	19.94	20.5
GPRS (1 slot)	23.70	23.52	23.76	24.0	20.40	20.30	19.90	20.5
GPRS (2 slots)	25.84	25.58	25.91	26.0	22.54	22.48	22.13	23.0
GPRS (3 slots)	25.79	25.36	25.78	26.0	22.37	22.31	22.02	22.5
GPRS (4 slots)	25.75	25.28	25.75	26.0	22.43	22.37	22.10	22.5
EDGE (1 slot)	18.29	17.79	18.17	18.5	17.90	17.85	17.62	18.0
EDGE (2 slots)	20.51	19.97	20.38	21.0	19.66	19.75	19.59	20.0
EDGE (3 slots)	20.58	20.06	20.41	21.0	19.20	19.33	19.18	19.5
EDGE (4 slots)	20.83	20.29	20.75	21.0	19.12	19.19	19.06	19.5

Note: The source-based time-averaged power is linearly scaled the maximum burst averaged power based on time slots. The calculated method are shown as below:

Source based time-average power = Burst averaged power - Duty cycle factor in dB

Duty cycle factor = 9 dB for 1 Tx slot, 6 dB for 2 Tx slots, 4.25 dB for 3 Tx slots, 3 dB for 4 Tx slots

Remark:

1. For Head SAR testing, GSM should be evaluated; therefore the EUT was set in GSM for GSM850 and GSM1900 due to its highest source-based time-average power.
2. For Body SAR testing, GPRS should be evaluated; therefore the EUT was set in GPRS (2TX slots) for

GSM850 and GPRS (2TX slots) for GSM1900 due to its highest source-based time-average power.

3. Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

4. The DUT do not support DTM function.

WCDMA - Average Power (dBm)								
Band	WCDMA Band II				WCDMA Band V			
Channel	9262	9400	9538	Tune-up power (dBm)	4132	4183	4233	Tune-up power (dBm)
Frequency (MHz)	1852.4	1880.0	1907.6		826.4	836.4	846.6	
RMC 12.2k	21.78	21.99	22.10	22.5	23.13	23.45	23.54	24.0
HSDPA Subtest-1	20.73	20.96	21.08	22.5	22.12	22.45	22.60	24.0
HSDPA Subtest-2	20.34	20.42	20.54	22.5	21.63	21.92	22.05	24.0
HSDPA Subtest-3	20.35	20.43	20.53	22.5	21.63	21.93	22.07	24.0
HSDPA Subtest-4	20.35	20.43	20.53	22.5	21.60	21.94	22.07	24.0
HSUPA Subtest-1	20.75	20.96	20.48	22.5	20.14	20.46	20.58	24.0
HSUPA Subtest-2	20.58	20.47	20.60	22.5	20.61	20.94	21.05	24.0
HSUPA Subtest-3	20.80	20.49	20.40	22.5	21.17	21.45	21.60	24.0
HSUPA Subtest-4	20.67	20.48	20.60	22.5	20.61	20.94	20.70	24.0
HSUPA Subtest-5	20.72	20.97	21.06	22.5	22.11	22.42	22.50	24.0

Remark:

1. Per KDB 941225 D01 v03, the 12.2kbps RMC mode was selected for SAR testing (the primary mode).
2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

FDD-LTE Band 2:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#2	23.30	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.53	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.17	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.36	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	23.25	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	22.19	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	23.25	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	22.22	PASS
Band2	1.4MHz	QPSK	18607	1RB#0	23.06	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.95	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	23.27	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	22.14	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.20	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.73	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.77	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.90	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.90	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.81	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.73	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.85	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.69	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.83	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	21.70	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	22.85	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.68	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.87	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.83	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.41	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.26	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.01	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.30	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	21.88	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.04	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	22.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	21.01	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	22.01	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	20.96	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	22.00	PASS

Band2	1.4MHz	16QAM	19193	3RB#3	20.93	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.02	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.07	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.68	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.90	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.63	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.86	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.66	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.84	PASS
Band2	3MHz	QPSK	18615	8RB#0	21.76	PASS
Band2	3MHz	16QAM	18615	8RB#0	20.75	PASS
Band2	3MHz	QPSK	18615	8RB#4	21.75	PASS
Band2	3MHz	16QAM	18615	8RB#4	20.77	PASS
Band2	3MHz	QPSK	18615	8RB#7	21.77	PASS
Band2	3MHz	16QAM	18615	8RB#7	20.78	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.73	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.75	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.23	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.51	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.29	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.44	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.24	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.46	PASS
Band2	3MHz	QPSK	18900	8RB#0	21.31	PASS
Band2	3MHz	16QAM	18900	8RB#0	20.29	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.32	PASS
Band2	3MHz	16QAM	18900	8RB#4	20.59	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.28	PASS
Band2	3MHz	16QAM	18900	8RB#7	20.49	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.24	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.42	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.02	PASS
Band2	3MHz	16QAM	19185	1RB#0	20.91	PASS
Band2	3MHz	QPSK	19185	1RB#8	21.96	PASS
Band2	3MHz	16QAM	19185	1RB#8	20.94	PASS
Band2	3MHz	QPSK	19185	1RB#14	21.96	PASS
Band2	3MHz	16QAM	19185	1RB#14	20.92	PASS
Band2	3MHz	QPSK	19185	8RB#0	21.07	PASS
Band2	3MHz	16QAM	19185	8RB#0	20.14	PASS
Band2	3MHz	QPSK	19185	8RB#4	21.06	PASS
Band2	3MHz	16QAM	19185	8RB#4	20.45	PASS
Band2	3MHz	QPSK	19185	8RB#7	20.99	PASS

Band2	3MHz	16QAM	19185	8RB#7	20.51	PASS
Band2	3MHz	QPSK	19185	15RB#0	20.99	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.93	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.61	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.72	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.74	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.81	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.61	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.65	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.68	PASS
Band2	5MHz	16QAM	18625	12RB#0	20.64	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.75	PASS
Band2	5MHz	16QAM	18625	12RB#6	20.62	PASS
Band2	5MHz	QPSK	18625	12RB#13	21.70	PASS
Band2	5MHz	16QAM	18625	12RB#13	20.62	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.68	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.71	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.22	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.52	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.31	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.65	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.17	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.57	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.28	PASS
Band2	5MHz	16QAM	18900	12RB#0	20.50	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.30	PASS
Band2	5MHz	16QAM	18900	12RB#6	20.43	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.28	PASS
Band2	5MHz	16QAM	18900	12RB#13	20.51	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.31	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.47	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.03	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.04	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.13	PASS
Band2	5MHz	QPSK	19175	1RB#24	21.90	PASS
Band2	5MHz	16QAM	19175	1RB#24	20.99	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.03	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.67	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.05	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.65	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.02	PASS

Band2	5MHz	16QAM	19175	12RB#13	20.95	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.04	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.57	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.70	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.90	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.83	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.99	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.58	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.82	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.80	PASS
Band2	10MHz	16QAM	18650	25RB#0	20.77	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.78	PASS
Band2	10MHz	16QAM	18650	25RB#12	20.80	PASS
Band2	10MHz	QPSK	18650	25RB#25	21.75	PASS
Band2	10MHz	16QAM	18650	25RB#25	20.65	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.76	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.72	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.27	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.51	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.31	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.67	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.32	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.55	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.38	PASS
Band2	10MHz	16QAM	18900	25RB#0	20.56	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.40	PASS
Band2	10MHz	16QAM	18900	25RB#12	20.40	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.38	PASS
Band2	10MHz	16QAM	18900	25RB#25	20.44	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.36	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.45	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.15	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.11	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.30	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.25	PASS
Band2	10MHz	QPSK	19150	1RB#49	21.98	PASS
Band2	10MHz	16QAM	19150	1RB#49	20.90	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.22	PASS
Band2	10MHz	16QAM	19150	25RB#0	20.47	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.22	PASS
Band2	10MHz	16QAM	19150	25RB#12	20.47	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.01	PASS

Band2	10MHz	16QAM	19150	25RB#25	20.55	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.07	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.59	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.58	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.85	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.66	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.84	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.32	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.60	PASS
Band2	15MHz	QPSK	18675	38RB#0	21.73	PASS
Band2	15MHz	16QAM	18675	38RB#0	21.75	PASS
Band2	15MHz	QPSK	18675	38RB#18	21.70	PASS
Band2	15MHz	16QAM	18675	38RB#18	21.74	PASS
Band2	15MHz	QPSK	18675	38RB#37	21.71	PASS
Band2	15MHz	16QAM	18675	38RB#37	21.72	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.71	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.64	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.22	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.58	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.30	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.61	PASS
Band2	15MHz	QPSK	18900	1RB#74	21.88	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.23	PASS
Band2	15MHz	QPSK	18900	38RB#0	21.37	PASS
Band2	15MHz	16QAM	18900	38RB#0	21.36	PASS
Band2	15MHz	QPSK	18900	38RB#18	21.40	PASS
Band2	15MHz	16QAM	18900	38RB#18	21.40	PASS
Band2	15MHz	QPSK	18900	38RB#37	21.41	PASS
Band2	15MHz	16QAM	18900	38RB#37	21.34	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.38	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.34	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.15	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.41	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.09	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.36	PASS
Band2	15MHz	QPSK	19125	1RB#74	21.81	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.07	PASS
Band2	15MHz	QPSK	19125	38RB#0	21.18	PASS
Band2	15MHz	16QAM	19125	38RB#0	21.19	PASS
Band2	15MHz	QPSK	19125	38RB#18	21.19	PASS
Band2	15MHz	16QAM	19125	38RB#18	21.20	PASS
Band2	15MHz	QPSK	19125	38RB#37	21.20	PASS

Band2	15MHz	16QAM	19125	38RB#37	21.19	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.20	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.62	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.59	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.78	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.83	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.15	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.22	PASS
Band2	20MHz	QPSK	18700	50RB#0	21.73	PASS
Band2	20MHz	16QAM	18700	50RB#0	20.75	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.77	PASS
Band2	20MHz	16QAM	18700	50RB#25	20.75	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.56	PASS
Band2	20MHz	16QAM	18700	50RB#50	20.53	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.64	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.68	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.18	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.42	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.43	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.73	PASS
Band2	20MHz	QPSK	18900	1RB#99	21.95	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.23	PASS
Band2	20MHz	QPSK	18900	50RB#0	21.34	PASS
Band2	20MHz	16QAM	18900	50RB#0	20.64	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.33	PASS
Band2	20MHz	16QAM	18900	50RB#25	20.35	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.34	PASS
Band2	20MHz	16QAM	18900	50RB#50	20.38	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.30	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.34	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.14	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.27	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.42	PASS
Band2	20MHz	QPSK	19100	1RB#99	21.77	PASS
Band2	20MHz	16QAM	19100	1RB#99	20.85	PASS
Band2	20MHz	QPSK	19100	50RB#0	21.43	PASS
Band2	20MHz	16QAM	19100	50RB#0	20.43	PASS
Band2	20MHz	QPSK	19100	50RB#25	21.46	PASS
Band2	20MHz	16QAM	19100	50RB#25	20.42	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.07	PASS

Band2	20MHz	16QAM	19100	50RB#50	20.80	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.28	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.45	PASS

FDD-LTE Band 4:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.09	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.08	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.26	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.27	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.10	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.09	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.11	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.94	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.09	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.94	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.13	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.96	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.21	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.02	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.08	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.05	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.22	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.20	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.05	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.02	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.15	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.01	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.13	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.02	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.15	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.98	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.18	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.20	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.64	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.64	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.78	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.81	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.65	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.69	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.65	PASS

Band4	1.4MHz	16QAM	20393	3RB#0	22.58	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.64	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.53	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.65	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.55	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.76	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.71	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.28	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.58	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.45	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.64	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.48	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.70	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.73	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.68	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.69	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.64	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.72	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.67	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.61	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.61	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.49	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.84	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.50	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.80	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.48	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.66	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.59	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.61	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.62	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.66	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.56	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.58	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.41	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.49	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.10	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.28	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.11	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.31	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.20	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.38	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.26	PASS

Band4	3MHz	16QAM	20385	8RB#0	21.28	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.24	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.21	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.24	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.23	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.21	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.18	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.53	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.57	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.80	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.67	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.61	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.61	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.65	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.24	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.43	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.38	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.54	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.50	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.47	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.47	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.31	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.51	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.42	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.48	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.24	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.35	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.46	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.42	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.47	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.46	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.41	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.40	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.42	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.44	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.90	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.91	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.09	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.08	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.03	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.03	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.09	PASS

Band4	5MHz	16QAM	20375	12RB#0	21.01	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.05	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.02	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.13	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.11	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.12	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.10	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.63	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.71	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.94	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.88	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.63	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.80	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.79	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.78	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.77	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.73	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.88	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.83	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.78	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.76	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.50	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.85	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.42	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.66	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.27	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.45	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.51	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.55	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.54	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.51	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.37	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.37	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.43	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.49	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.78	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.01	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.11	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.31	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.23	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.35	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.20	PASS

Band4	10MHz	16QAM	20350	25RB#0	21.19	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.19	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.21	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.33	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.31	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.23	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.20	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.82	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.78	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.95	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.05	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.77	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.76	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.93	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.93	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.92	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.97	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.89	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.92	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.90	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.79	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.60	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.79	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.37	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.60	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.12	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.02	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.21	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.23	PASS
Band4	15MHz	QPSK	20175	38RB#18	21.23	PASS
Band4	15MHz	16QAM	20175	38RB#18	21.31	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.31	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.31	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.35	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.54	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.54	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.44	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.63	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.89	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.71	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.94	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.94	PASS

Band4	15MHz	16QAM	20325	38RB#0	21.95	PASS
Band4	15MHz	QPSK	20325	38RB#18	21.96	PASS
Band4	15MHz	16QAM	20325	38RB#18	21.92	PASS
Band4	15MHz	QPSK	20325	38RB#37	21.92	PASS
Band4	15MHz	16QAM	20325	38RB#37	21.93	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.98	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.83	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.43	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.56	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.79	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.12	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.47	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.59	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.92	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.51	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.61	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.66	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.64	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.62	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.62	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.64	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.43	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.47	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.36	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.48	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.06	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.07	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.42	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.37	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.38	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.45	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.18	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.56	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.28	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.65	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.16	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.15	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.76	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.80	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.65	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.73	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.51	PASS

Band4	20MHz	16QAM	20300	50RB#0	20.45	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.49	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.46	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.76	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.75	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.60	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.59	PASS

FDD-LTE Band 5:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.32	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.40	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.41	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.53	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.29	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.43	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.33	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.27	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.32	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.24	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.28	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.21	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.27	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.57	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	21.70	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	20.79	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	21.76	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	20.98	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.62	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	20.80	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	21.79	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	20.68	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	21.78	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	20.68	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	21.77	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	20.66	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	20.73	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.77	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	21.94	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.05	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.05	PASS

Band5	1.4MHz	16QAM	20643	1RB#2	21.29	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.98	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.07	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.02	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	20.90	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.02	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	20.91	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.02	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.88	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	20.97	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.71	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.18	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.44	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.18	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.33	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.14	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.28	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.24	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.26	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.24	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.57	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.16	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.70	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.19	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.65	PASS
Band5	3MHz	QPSK	20525	1RB#0	21.69	PASS
Band5	3MHz	16QAM	20525	1RB#0	20.90	PASS
Band5	3MHz	QPSK	20525	1RB#8	21.68	PASS
Band5	3MHz	16QAM	20525	1RB#8	20.86	PASS
Band5	3MHz	QPSK	20525	1RB#14	21.61	PASS
Band5	3MHz	16QAM	20525	1RB#14	20.80	PASS
Band5	3MHz	QPSK	20525	8RB#0	20.73	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.77	PASS
Band5	3MHz	QPSK	20525	8RB#4	20.71	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.76	PASS
Band5	3MHz	QPSK	20525	8RB#7	20.67	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.73	PASS
Band5	3MHz	QPSK	20525	15RB#0	20.66	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.71	PASS
Band5	3MHz	QPSK	20635	1RB#0	21.85	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.08	PASS
Band5	3MHz	QPSK	20635	1RB#8	21.91	PASS

Band5	3MHz	16QAM	20635	1RB#8	21.04	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.89	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.08	PASS
Band5	3MHz	QPSK	20635	8RB#0	20.92	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.99	PASS
Band5	3MHz	QPSK	20635	8RB#4	20.91	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.99	PASS
Band5	3MHz	QPSK	20635	8RB#7	20.97	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.96	PASS
Band5	3MHz	QPSK	20635	15RB#0	20.90	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.91	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.14	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.20	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.20	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.22	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.00	PASS
Band5	5MHz	16QAM	20425	1RB#24	20.94	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.22	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.18	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.22	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.50	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.08	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.54	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.15	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.50	PASS
Band5	5MHz	QPSK	20525	1RB#0	21.74	PASS
Band5	5MHz	16QAM	20525	1RB#0	20.88	PASS
Band5	5MHz	QPSK	20525	1RB#12	21.83	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.00	PASS
Band5	5MHz	QPSK	20525	1RB#24	21.60	PASS
Band5	5MHz	16QAM	20525	1RB#24	20.81	PASS
Band5	5MHz	QPSK	20525	12RB#0	20.72	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.69	PASS
Band5	5MHz	QPSK	20525	12RB#6	20.71	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.72	PASS
Band5	5MHz	QPSK	20525	12RB#13	20.59	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.65	PASS
Band5	5MHz	QPSK	20525	25RB#0	20.70	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.69	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.80	PASS
Band5	5MHz	16QAM	20625	1RB#0	20.89	PASS
Band5	5MHz	QPSK	20625	1RB#12	21.96	PASS

Band5	5MHz	16QAM	20625	1RB#12	21.01	PASS
Band5	5MHz	QPSK	20625	1RB#24	21.90	PASS
Band5	5MHz	16QAM	20625	1RB#24	20.93	PASS
Band5	5MHz	QPSK	20625	12RB#0	20.90	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.90	PASS
Band5	5MHz	QPSK	20625	12RB#6	20.89	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.84	PASS
Band5	5MHz	QPSK	20625	12RB#13	20.92	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.89	PASS
Band5	5MHz	QPSK	20625	25RB#0	20.92	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.95	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.50	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.41	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.18	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.28	PASS
Band5	10MHz	QPSK	20450	1RB#49	21.73	PASS
Band5	10MHz	16QAM	20450	1RB#49	20.88	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.19	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.76	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.12	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.49	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.04	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.54	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.08	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.59	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.86	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.05	PASS
Band5	10MHz	QPSK	20525	1RB#24	21.77	PASS
Band5	10MHz	16QAM	20525	1RB#24	20.94	PASS
Band5	10MHz	QPSK	20525	1RB#49	21.70	PASS
Band5	10MHz	16QAM	20525	1RB#49	20.89	PASS
Band5	10MHz	QPSK	20525	25RB#0	20.73	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.73	PASS
Band5	10MHz	QPSK	20525	25RB#12	20.74	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.76	PASS
Band5	10MHz	QPSK	20525	25RB#25	20.66	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.65	PASS
Band5	10MHz	QPSK	20525	50RB#0	20.70	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.69	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.68	PASS
Band5	10MHz	16QAM	20600	1RB#0	20.88	PASS
Band5	10MHz	QPSK	20600	1RB#24	21.95	PASS

Band5	10MHz	16QAM	20600	1RB#24	21.11	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.95	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.16	PASS
Band5	10MHz	QPSK	20600	25RB#0	20.91	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.91	PASS
Band5	10MHz	QPSK	20600	25RB#12	20.90	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.90	PASS
Band5	10MHz	QPSK	20600	25RB#25	20.95	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.95	PASS
Band5	10MHz	QPSK	20600	50RB#0	20.96	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.92	PASS

FDD-LTE Band 7:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.27	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.28	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.37	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.31	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.20	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.17	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.30	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.24	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.27	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.22	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.28	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.18	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.24	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.29	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.73	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.94	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.85	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.96	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.65	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.87	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.80	PASS
Band7	5MHz	16QAM	21100	12RB#0	20.90	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.78	PASS
Band7	5MHz	16QAM	21100	12RB#6	20.86	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.75	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.85	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.77	PASS

Band7	5MHz	16QAM	21100	25RB#0	20.84	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.63	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.63	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.74	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.72	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.61	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.60	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.68	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.69	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.65	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.72	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.53	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.64	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.64	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.71	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.76	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.91	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.78	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.94	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.70	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.85	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.79	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.87	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.78	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.82	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.77	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.85	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.72	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.75	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.33	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.50	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.37	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.54	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.15	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.35	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.31	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.43	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.34	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.42	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.25	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.31	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.26	PASS

Band7	10MHz	16QAM	21100	50RB#0	20.35	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.26	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.17	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.29	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.13	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.08	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.02	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.23	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.33	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.23	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.31	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.16	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.22	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.11	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.49	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.74	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.88	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.74	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.89	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.58	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.76	PASS
Band7	15MHz	QPSK	20825	38RB#0	21.84	PASS
Band7	15MHz	16QAM	20825	38RB#0	21.85	PASS
Band7	15MHz	QPSK	20825	38RB#18	21.86	PASS
Band7	15MHz	16QAM	20825	38RB#18	21.87	PASS
Band7	15MHz	QPSK	20825	38RB#37	21.85	PASS
Band7	15MHz	16QAM	20825	38RB#37	21.87	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.85	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.82	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.37	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.61	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.26	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.55	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.11	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.34	PASS
Band7	15MHz	QPSK	21100	38RB#0	21.35	PASS
Band7	15MHz	16QAM	21100	38RB#0	21.36	PASS
Band7	15MHz	QPSK	21100	38RB#18	21.31	PASS
Band7	15MHz	16QAM	21100	38RB#18	21.36	PASS
Band7	15MHz	QPSK	21100	38RB#37	21.36	PASS
Band7	15MHz	16QAM	21100	38RB#37	21.35	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.37	PASS

Band7	15MHz	16QAM	21100	75RB#0	20.39	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.26	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.12	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.20	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.12	PASS
Band7	15MHz	QPSK	21375	1RB#74	21.95	PASS
Band7	15MHz	16QAM	21375	1RB#74	20.88	PASS
Band7	15MHz	QPSK	21375	38RB#0	21.21	PASS
Band7	15MHz	16QAM	21375	38RB#0	21.20	PASS
Band7	15MHz	QPSK	21375	38RB#18	21.22	PASS
Band7	15MHz	16QAM	21375	38RB#18	21.22	PASS
Band7	15MHz	QPSK	21375	38RB#37	21.22	PASS
Band7	15MHz	16QAM	21375	38RB#37	21.21	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.21	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.21	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.93	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.88	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.47	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.17	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.56	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.55	PASS
Band7	20MHz	QPSK	20850	50RB#0	21.87	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.92	PASS
Band7	20MHz	QPSK	20850	50RB#25	21.87	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.94	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.84	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.85	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.87	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.92	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.43	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.59	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.67	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.77	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.10	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.25	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.53	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.64	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.51	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.57	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.37	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.49	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.38	PASS

Band7	20MHz	16QAM	21100	100RB#0	20.48	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.02	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.15	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.26	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.40	PASS
Band7	20MHz	QPSK	21350	1RB#99	21.88	PASS
Band7	20MHz	16QAM	21350	1RB#99	20.99	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.27	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.37	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.24	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.39	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.21	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.28	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.22	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.30	PASS

TDD-LTE Band 38:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.57	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.89	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.66	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.96	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.52	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.85	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.55	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.50	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.58	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.53	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.54	PASS
Band38	5MHz	16QAM	37775	12RB#13	21.54	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.56	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.56	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.47	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.70	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.56	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.82	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.44	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.68	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.55	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.52	PASS

Band38	5MHz	QPSK	38000	12RB#6	22.51	PASS
Band38	5MHz	16QAM	38000	12RB#6	21.50	PASS
Band38	5MHz	QPSK	38000	12RB#13	22.53	PASS
Band38	5MHz	16QAM	38000	12RB#13	21.50	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.49	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.49	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.60	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.81	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.69	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.91	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.66	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.86	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.58	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.54	PASS
Band38	5MHz	QPSK	38225	12RB#6	22.64	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.53	PASS
Band38	5MHz	QPSK	38225	12RB#13	22.65	PASS
Band38	5MHz	16QAM	38225	12RB#13	21.55	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.59	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.57	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.67	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.99	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.82	PASS
Band38	10MHz	16QAM	37800	1RB#24	23.06	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.65	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.91	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.68	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.79	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.69	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.76	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.68	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.77	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.66	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.61	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.68	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.58	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.88	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.68	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.59	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.35	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.63	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.56	PASS

Band38	10MHz	QPSK	38000	25RB#12	22.58	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.56	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.59	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.55	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.57	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.52	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.70	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.89	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.88	PASS
Band38	10MHz	16QAM	38200	1RB#24	23.05	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.70	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.89	PASS
Band38	10MHz	QPSK	38200	25RB#0	22.69	PASS
Band38	10MHz	16QAM	38200	25RB#0	21.72	PASS
Band38	10MHz	QPSK	38200	25RB#12	22.68	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.69	PASS
Band38	10MHz	QPSK	38200	25RB#25	22.70	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.73	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.64	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.60	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.60	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.91	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.57	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.87	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.45	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.72	PASS
Band38	15MHz	QPSK	37825	38RB#0	22.68	PASS
Band38	15MHz	16QAM	37825	38RB#0	22.68	PASS
Band38	15MHz	QPSK	37825	38RB#18	22.66	PASS
Band38	15MHz	16QAM	37825	38RB#18	22.66	PASS
Band38	15MHz	QPSK	37825	38RB#37	22.67	PASS
Band38	15MHz	16QAM	37825	38RB#37	22.66	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.65	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.59	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.75	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.63	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.73	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.55	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.50	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.35	PASS
Band38	15MHz	QPSK	38000	38RB#0	22.65	PASS
Band38	15MHz	16QAM	38000	38RB#0	22.64	PASS

Band38	15MHz	QPSK	38000	38RB#18	22.67	PASS
Band38	15MHz	16QAM	38000	38RB#18	22.65	PASS
Band38	15MHz	QPSK	38000	38RB#37	22.64	PASS
Band38	15MHz	16QAM	38000	38RB#37	22.67	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.66	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.55	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.55	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.77	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.61	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.80	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.53	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.76	PASS
Band38	15MHz	QPSK	38175	38RB#0	22.73	PASS
Band38	15MHz	16QAM	38175	38RB#0	22.71	PASS
Band38	15MHz	QPSK	38175	38RB#18	22.68	PASS
Band38	15MHz	16QAM	38175	38RB#18	22.69	PASS
Band38	15MHz	QPSK	38175	38RB#37	22.69	PASS
Band38	15MHz	16QAM	38175	38RB#37	22.68	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.68	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.63	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.57	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.67	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.78	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.90	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.41	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.49	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.59	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.57	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.54	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.59	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.65	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.62	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.63	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.58	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.60	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.15	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.82	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.35	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.34	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.92	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.58	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.55	PASS

Band38	20MHz	QPSK	38000	50RB#25	22.58	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.56	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.51	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.53	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.51	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.53	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.44	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.50	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.78	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.82	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.42	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.49	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.57	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.54	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.54	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.52	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.52	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.51	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.52	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.49	PASS

FDD-LTE Band 40(2305-2315MHz):

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	38725	1RB#0	22.56	PASS
Band40	5MHz	QPSK	38725	1RB#12	22.78	PASS
Band40	5MHz	QPSK	38725	1RB#24	22.45	PASS
Band40	5MHz	QPSK	38725	12RB#0	22.36	PASS
Band40	5MHz	QPSK	38725	12RB#6	22.21	PASS
Band40	5MHz	QPSK	38725	12RB#13	22.18	PASS
Band40	5MHz	QPSK	38725	25RB#0	22.36	PASS
Band40	5MHz	QPSK	38750	1RB#0	22.45	PASS
Band40	5MHz	QPSK	38750	1RB#12	22.25	PASS
Band40	5MHz	QPSK	38750	1RB#24	21.49	PASS
Band40	5MHz	QPSK	38750	12RB#0	22.31	PASS
Band40	5MHz	QPSK	38750	12RB#6	22.21	PASS
Band40	5MHz	QPSK	38750	12RB#13	22.14	PASS
Band40	5MHz	QPSK	38750	25RB#0	22.45	PASS
Band40	5MHz	QPSK	38775	1RB#0	22.36	PASS
Band40	5MHz	QPSK	38775	1RB#12	22.25	PASS

Band40	5MHz	QPSK	38775	1RB#24	21.47	PASS
Band40	5MHz	QPSK	38775	12RB#0	22.25	PASS
Band40	5MHz	QPSK	38775	12RB#6	21.36	PASS
Band40	5MHz	QPSK	38775	12RB#13	21.87	PASS
Band40	5MHz	QPSK	38775	25RB#0	22.74	PASS
Band40	5MHz	16QAM	38725	1RB#0	22.25	PASS
Band40	5MHz	16QAM	38725	1RB#12	22.36	PASS
Band40	5MHz	16QAM	38725	1RB#24	22.24	PASS
Band40	5MHz	16QAM	38725	12RB#0	22.47	PASS
Band40	5MHz	16QAM	38725	12RB#6	21.46	PASS
Band40	5MHz	16QAM	38725	12RB#13	21.25	PASS
Band40	5MHz	16QAM	38725	25RB#0	21.36	PASS
Band40	5MHz	16QAM	38750	1RB#0	22.69	PASS
Band40	5MHz	16QAM	38750	1RB#12	21.47	PASS
Band40	5MHz	16QAM	38750	1RB#24	21.25	PASS
Band40	5MHz	16QAM	38750	12RB#0	21.36	PASS
Band40	5MHz	16QAM	38750	12RB#6	21.24	PASS
Band40	5MHz	16QAM	38750	12RB#13	21.47	PASS
Band40	5MHz	16QAM	38750	25RB#0	22.68	PASS
Band40	5MHz	16QAM	38775	1RB#0	22.42	PASS
Band40	5MHz	16QAM	38775	1RB#12	22.26	PASS
Band40	5MHz	16QAM	38775	1RB#24	22.25	PASS
Band40	5MHz	16QAM	38775	12RB#0	21.36	PASS
Band40	5MHz	16QAM	38775	12RB#6	21.21	PASS
Band40	5MHz	16QAM	38775	12RB#13	21.45	PASS
Band40	5MHz	16QAM	38775	25RB#0	21.25	PASS
Band40	10MHz	QPSK	38750	1RB#0	22.94	PASS
Band40	10MHz	QPSK	38750	1RB#24	22.62	PASS
Band40	10MHz	QPSK	38750	1RB#49	21.25	PASS
Band40	10MHz	QPSK	38750	25RB#0	22.36	PASS
Band40	10MHz	QPSK	38750	25RB#12	22.45	PASS
Band40	10MHz	QPSK	38750	25RB#25	22.25	PASS
Band40	10MHz	QPSK	38750	50RB#0	22.36	PASS
Band40	10MHz	16QAM	38750	1RB#0	22.57	PASS
Band40	10MHz	16QAM	38750	1RB#24	22.42	PASS
Band40	10MHz	16QAM	38750	1RB#49	22.36	PASS
Band40	10MHz	16QAM	38750	25RB#0	21.41	PASS

Band40	10MHz	16QAM	38750	25RB#12	21.20	PASS
Band40	10MHz	16QAM	38750	25RB#25	21.12	PASS
Band40	10MHz	16QAM	38750	50RB#0	21.36	PASS

FDD-LTE Band 40(2350-2360MHz):

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	39175	1RB#0	22.68	PASS
Band40	5MHz	QPSK	39175	1RB#12	22.54	PASS
Band40	5MHz	QPSK	39175	1RB#24	22.45	PASS
Band40	5MHz	QPSK	39175	12RB#0	21.26	PASS
Band40	5MHz	QPSK	39175	12RB#6	21.32	PASS
Band40	5MHz	QPSK	39175	12RB#13	21.45	PASS
Band40	5MHz	QPSK	39175	25RB#0	21.25	PASS
Band40	5MHz	QPSK	39200	1RB#0	22.36	PASS
Band40	5MHz	QPSK	39200	1RB#12	22.54	PASS
Band40	5MHz	QPSK	39200	1RB#24	22.45	PASS
Band40	5MHz	QPSK	39200	12RB#0	21.25	PASS
Band40	5MHz	QPSK	39200	12RB#6	21.36	PASS
Band40	5MHz	QPSK	39200	12RB#13	21.54	PASS
Band40	5MHz	QPSK	39200	25RB#0	21.45	PASS
Band40	5MHz	QPSK	39225	1RB#0	22.32	PASS
Band40	5MHz	QPSK	39225	1RB#12	22.15	PASS
Band40	5MHz	QPSK	39225	1RB#24	22.25	PASS
Band40	5MHz	QPSK	39225	12RB#0	21.36	PASS
Band40	5MHz	QPSK	39225	12RB#6	21.87	PASS
Band40	5MHz	QPSK	39225	12RB#13	21.15	PASS
Band40	5MHz	QPSK	39225	25RB#0	21.25	PASS
Band40	5MHz	16QAM	39175	1RB#0	22.36	PASS
Band40	5MHz	16QAM	39175	1RB#12	22.54	PASS
Band40	5MHz	16QAM	39175	1RB#24	22.15	PASS
Band40	5MHz	16QAM	39175	12RB#0	21.25	PASS
Band40	5MHz	16QAM	39175	12RB#6	21.36	PASS
Band40	5MHz	16QAM	39175	12RB#13	21.45	PASS
Band40	5MHz	16QAM	39175	25RB#0	21.47	PASS
Band40	5MHz	16QAM	39200	1RB#0	21.36	PASS
Band40	5MHz	16QAM	39200	1RB#12	22.24	PASS

Band40	5MHz	16QAM	39200	1RB#24	21.46	PASS
Band40	5MHz	16QAM	39200	12RB#0	21.68	PASS
Band40	5MHz	16QAM	39200	12RB#6	21.12	PASS
Band40	5MHz	16QAM	39200	12RB#13	21.36	PASS
Band40	5MHz	16QAM	39200	25RB#0	21.54	PASS
Band40	5MHz	16QAM	39225	1RB#0	22.45	PASS
Band40	5MHz	16QAM	39225	1RB#12	22.26	PASS
Band40	5MHz	16QAM	39225	1RB#24	22.25	PASS
Band40	5MHz	16QAM	39225	12RB#0	21.21	PASS
Band40	5MHz	16QAM	39225	12RB#6	21.45	PASS
Band40	5MHz	16QAM	39225	12RB#13	21.26	PASS
Band40	5MHz	16QAM	39225	25RB#0	21.25	PASS
Band40	10MHz	QPSK	39200	1RB#0	22.69	PASS
Band40	10MHz	QPSK	39200	1RB#24	22.45	PASS
Band40	10MHz	QPSK	39200	1RB#49	22.45	PASS
Band40	10MHz	QPSK	39200	25RB#0	21.25	PASS
Band40	10MHz	QPSK	39200	25RB#12	21.36	PASS
Band40	10MHz	QPSK	39200	25RB#25	21.25	PASS
Band40	10MHz	QPSK	39200	50RB#0	21.45	PASS
Band40	10MHz	16QAM	39200	1RB#0	22.25	PASS
Band40	10MHz	16QAM	39200	1RB#24	22.45	PASS
Band40	10MHz	16QAM	39200	1RB#49	21.36	PASS
Band40	10MHz	16QAM	39200	25RB#0	21.54	PASS
Band40	10MHz	16QAM	39200	25RB#12	21.12	PASS
Band40	10MHz	16QAM	39200	25RB#25	21.25	PASS
Band40	10MHz	16QAM	39200	50RB#0	21.36	PASS

FDD-LTE Band 41:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	20.86	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.08	PASS
Band41	5MHz	QPSK	39675	1RB#12	20.89	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.15	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.97	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.99	PASS
Band41	5MHz	QPSK	39675	12RB#0	20.74	PASS
Band41	5MHz	16QAM	39675	12RB#0	20.65	PASS

Band41	5MHz	QPSK	39675	12RB#6	20.75	PASS
Band41	5MHz	16QAM	39675	12RB#6	20.66	PASS
Band41	5MHz	QPSK	39675	12RB#13	23.93	PASS
Band41	5MHz	16QAM	39675	12RB#13	23.66	PASS
Band41	5MHz	QPSK	39675	25RB#0	23.83	PASS
Band41	5MHz	16QAM	39675	25RB#0	23.61	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.44	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.72	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.58	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.91	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.32	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.71	PASS
Band41	5MHz	QPSK	40620	12RB#0	22.56	PASS
Band41	5MHz	16QAM	40620	12RB#0	21.55	PASS
Band41	5MHz	QPSK	40620	12RB#6	22.54	PASS
Band41	5MHz	16QAM	40620	12RB#6	21.55	PASS
Band41	5MHz	QPSK	40620	12RB#13	22.56	PASS
Band41	5MHz	16QAM	40620	12RB#13	21.54	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.57	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.54	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.40	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.62	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.54	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.68	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.41	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.64	PASS
Band41	5MHz	QPSK	41565	12RB#0	22.41	PASS
Band41	5MHz	16QAM	41565	12RB#0	21.37	PASS
Band41	5MHz	QPSK	41565	12RB#6	22.43	PASS
Band41	5MHz	16QAM	41565	12RB#6	21.28	PASS
Band41	5MHz	QPSK	41565	12RB#13	22.42	PASS
Band41	5MHz	16QAM	41565	12RB#13	21.38	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.43	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.41	PASS
Band41	10MHz	QPSK	39700	1RB#0	20.58	PASS
Band41	10MHz	16QAM	39700	1RB#0	20.77	PASS
Band41	10MHz	QPSK	39700	1RB#24	25.39	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.88	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.76	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.73	PASS
Band41	10MHz	QPSK	39700	25RB#0	23.81	PASS
Band41	10MHz	16QAM	39700	25RB#0	23.64	PASS

Band41	10MHz	QPSK	39700	25RB#12	23.81	PASS
Band41	10MHz	16QAM	39700	25RB#12	23.64	PASS
Band41	10MHz	QPSK	39700	25RB#25	25.63	PASS
Band41	10MHz	16QAM	39700	25RB#25	21.60	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.87	PASS
Band41	10MHz	16QAM	39700	50RB#0	23.67	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.71	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.44	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.79	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.56	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.60	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.36	PASS
Band41	10MHz	QPSK	40620	25RB#0	22.63	PASS
Band41	10MHz	16QAM	40620	25RB#0	21.61	PASS
Band41	10MHz	QPSK	40620	25RB#12	22.61	PASS
Band41	10MHz	16QAM	40620	25RB#12	21.61	PASS
Band41	10MHz	QPSK	40620	25RB#25	22.59	PASS
Band41	10MHz	16QAM	40620	25RB#25	21.54	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.59	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.58	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.50	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.58	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.70	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.71	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.56	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.56	PASS
Band41	10MHz	QPSK	41540	25RB#0	22.42	PASS
Band41	10MHz	16QAM	41540	25RB#0	21.52	PASS
Band41	10MHz	QPSK	41540	25RB#12	22.46	PASS
Band41	10MHz	16QAM	41540	25RB#12	21.51	PASS
Band41	10MHz	QPSK	41540	25RB#25	22.50	PASS
Band41	10MHz	16QAM	41540	25RB#25	21.60	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.48	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.46	PASS
Band41	15MHz	QPSK	39725	1RB#0	20.59	PASS
Band41	15MHz	16QAM	39725	1RB#0	20.76	PASS
Band41	15MHz	QPSK	39725	1RB#38	25.54	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.76	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.66	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.64	PASS
Band41	15MHz	QPSK	39725	38RB#0	23.84	PASS
Band41	15MHz	16QAM	39725	38RB#0	23.84	PASS

Band41	15MHz	QPSK	39725	38RB#18	23.83	PASS
Band41	15MHz	16QAM	39725	38RB#18	23.83	PASS
Band41	15MHz	QPSK	39725	38RB#37	23.83	PASS
Band41	15MHz	16QAM	39725	38RB#37	23.83	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.83	PASS
Band41	15MHz	16QAM	39725	75RB#0	23.64	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.68	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.57	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.71	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.56	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.57	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.35	PASS
Band41	15MHz	QPSK	40620	38RB#0	22.66	PASS
Band41	15MHz	16QAM	40620	38RB#0	22.69	PASS
Band41	15MHz	QPSK	40620	38RB#18	22.72	PASS
Band41	15MHz	16QAM	40620	38RB#18	22.69	PASS
Band41	15MHz	QPSK	40620	38RB#37	22.69	PASS
Band41	15MHz	16QAM	40620	38RB#37	22.69	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.71	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.63	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.36	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.49	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.51	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.57	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.38	PASS
Band41	15MHz	16QAM	41515	1RB#74	22.41	PASS
Band41	15MHz	QPSK	41515	38RB#0	22.59	PASS
Band41	15MHz	16QAM	41515	38RB#0	22.58	PASS
Band41	15MHz	QPSK	41515	38RB#18	22.59	PASS
Band41	15MHz	16QAM	41515	38RB#18	22.59	PASS
Band41	15MHz	QPSK	41515	38RB#37	22.59	PASS
Band41	15MHz	16QAM	41515	38RB#37	22.57	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.57	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.46	PASS
Band41	20MHz	QPSK	39750	1RB#0	21.22	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.36	PASS
Band41	20MHz	QPSK	39750	1RB#49	24.33	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.45	PASS
Band41	20MHz	QPSK	39750	1RB#99	24.88	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.24	PASS
Band41	20MHz	QPSK	39750	50RB#0	23.51	PASS
Band41	20MHz	16QAM	39750	50RB#0	23.32	PASS

Band41	20MHz	QPSK	39750	50RB#25	23.52	PASS
Band41	20MHz	16QAM	39750	50RB#25	23.32	PASS
Band41	20MHz	QPSK	39750	50RB#50	24.16	PASS
Band41	20MHz	16QAM	39750	50RB#50	21.23	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.61	PASS
Band41	20MHz	16QAM	39750	100RB#0	23.41	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.23	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.82	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.53	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.06	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.05	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.60	PASS
Band41	20MHz	QPSK	40620	50RB#0	22.30	PASS
Band41	20MHz	16QAM	40620	50RB#0	21.29	PASS
Band41	20MHz	QPSK	40620	50RB#25	22.29	PASS
Band41	20MHz	16QAM	40620	50RB#25	21.31	PASS
Band41	20MHz	QPSK	40620	50RB#50	22.24	PASS
Band41	20MHz	16QAM	40620	50RB#50	21.23	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.27	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.23	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.95	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.06	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.38	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.36	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.99	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.96	PASS
Band41	20MHz	QPSK	41490	50RB#0	22.10	PASS
Band41	20MHz	16QAM	41490	50RB#0	21.08	PASS
Band41	20MHz	QPSK	41490	50RB#25	22.10	PASS
Band41	20MHz	16QAM	41490	50RB#25	21.09	PASS
Band41	20MHz	QPSK	41490	50RB#50	22.16	PASS
Band41	20MHz	16QAM	41490	50RB#50	21.13	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.13	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.08	PASS

Remark:

1. Per KDB941225 D05 v02r05, Start with the largest channel bandwidth then measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle, and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. 6 When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required

Waltek Testing Group (Shenzhen) Co., Ltd.

test channel.

2. Per KDB941225 D05 v02r05, the procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
3. Per KDB941225 D05 v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations, and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB941225 D05 v02r05, for each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in 5.2.1, 5.2.2, and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

WLAN(2.4GHz)					
Test Mode	Data Rate	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11b	11Mbps	CH 01	2412	16.11	16.5
		CH 06	2437	16.03	16.5
		CH 11	2462	15.44	16.5
802.11g	54Mbps	CH 01	2412	14.15	16.5
		CH 06	2437	14.38	16.5
		CH 11	2462	13.80	16.5
802.11n (20MHz)	MCS7	CH 01	2412	13.85	16.5
		CH 06	2437	14.28	16.5
		CH 11	2462	13.63	16.5
802.11n (20MHz)	MCS7	CH 03	2422	13.25	16.5
		CH 06	2437	13.34	16.5
		CH 09	2452	12.82	16.5

WLAN(5.2GHz)				
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11a	CH 36	5180	15.23	15.5
	CH 40	5200	15.17	15.5
	CH 48	5240	14.06	15.5
802.11n (HT20)	CH 36	5180	12.96	15.5
	CH 40	5200	13.11	15.5
	CH 48	5240	13.67	15.5
802.11ac (20MHz)	CH 36	5180	12.65	15.5
	CH 40	5200	12.71	15.5
	CH 48	5240	13.33	15.5
802.11n (HT40)	CH 38	5190	12.82	15.5
	CH 46	5230	12.51	15.5
802.11ac (40MHz)	CH 38	5190	12.81	15.5
	CH 46	5230	12.42	15.5
802.11ac (80MHz)	CH42	5210	12.05	15.5

WLAN(5.3GHz)				
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11a	CH 52	5260	13.06	13.5
	CH 56	5280	13.24	13.5
	CH 64	5320	13.23	13.5
802.11n (20MHz)	CH 52	5260	12.93	13.5
	CH 56	5280	13.14	13.5
	CH 64	5320	13.23	13.5
802.11ac (20MHz)	CH 52	5260	12.08	13.5
	CH 56	5280	12.34	13.5
	CH 64	5320	13.07	13.5
802.11n (40MHz)	CH 54	5270	12.15	13.5
	CH 62	5310	12.17	13.5
802.11ac (40MHz)	CH 54	5270	12.09	13.5
	CH 62	5310	12.35	13.5
802.11ac (80MHz)	CH58	5290	11.22	13.5

WLAN(5.6GHz)				
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11a	CH 100	5500	11.76	12.0
	CH 120	5600	11.23	12.0
	CH 140	5700	10.38	12.0
802.11n (20MHz)	CH 100	5500	11.53	12.0
	CH 120	5600	10.99	12.0
	CH 140	5700	11.41	12.0
802.11ac (20MHz)	CH 100	5500	11.66	12.0
	CH 120	5600	11.02	12.0
	CH 140	5700	10.38	12.0
802.11n (40MHz)	CH 102	5510	10.34	12.0
	CH 118	5590	10.87	12.0
	CH 134	5670	10.18	12.0
802.11ac (40MHz)	CH 102	5510	11.22	12.0
	CH 118	5590	10.47	12.0
	CH 134	5670	10.10	12.0
802.11ac (80MHz)	CH 106	5530	11.06	12.0

WLAN(5.8GHz)				
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11a	CH 149	5745	11.11	11.5
	CH 157	5785	11.12	11.5
	CH 165	5825	11.12	11.5
802.11n (20MHz)	CH 149	5745	11.04	11.5
	CH 157	5785	10.94	11.5
	CH 165	5825	11.09	11.5
802.11ac (20MHz)	CH 149	5745	11.13	11.5
	CH 157	5785	11.09	11.5
	CH 165	5825	10.75	11.5
802.11n (40MHz)	CH 151	5755	10.95	11.5
	CH 159	5795	10.60	11.5
802.11ac (40MHz)	CH 151	5755	10.89	11.5
	CH 159	5795	10.95	11.5
802.11ac (80MHz)	CH 155	5775	10.82	11.5

Remark:

1. Per KDB 248227 D01 v02r02, 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.
2. Per KDB 248227 D01 v02r02, For 802.11b DSSS SAR measurements ,when the reported SAR of the highest measured maximum output power channel (see 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. 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.
- 3 .For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
4. Per KDB 248227 D01 v02r02, When multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined by applying the following steps sequentially.
 - 1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same specified maximum output power.
 - 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
 - 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
 - 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.

Bluetooth - Maximum Average Power					
Test Mode	Data Rate	Conducted Power (dBm)			Tune-up power(dBm)
		CH00	CH39	CH78	
GFSK	1Mbps	1.84	7.01	3.00	7.5
$\pi/4$ DQPSK	2Mbps	1.96	6.78	3.03	7.5
8DPSK	3Mbps	1.90	6.78	2.97	7.5

Bluetooth - Maximum Average Power					
Test Mode	Data Rate	Channel	Frequency (MHz)	Conducted Power(dBm)	Tune-up power (dBm)
BLE	1Mbps	CH 00	2402	-10.06	-6.5
		CH 19	2440	-6.95	-6.5
		CH 39	2480	-8.99	-6.5
	2Mbps	CH 00	2402	-10.00	-6.5
		CH 19	2440	-6.89	-6.5
		CH 39	2480	-8.93	-6.5

NFC				
Test Mode	Channel(MHz)	Max. Field Strength dBuV/m (at 3m)	Conducted Power (dBm)	Tune- up power (dBm)
NFC	13.56	58.02	-48.98	-48.0

Remark:

According to the KDB 447498 D01 V06, 4.3.1 c), for frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

Appendix C***SAR Test Exclusion Thresholds for < 100 MHz and < 200 mm***

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	< 50	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	237	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	mW
50	308	617	625	634	643	651	660	669	677	686	695	703	712	721	729	738	
10	474	948	961	975	988	1001	1015	1028	1041	1055	1068	1081	1095	1108	1121	1135	
1	711	1422	1442	1462	1482	1502	1522	1542	1562	1582	1602	1622	1642	1662	1682	1702	
0.1	948	1896	1923	1949	1976	2003	2029	2056	2083	2109	2136	2163	2189	2216	2243	2269	
0.05	1019	2039	2067	2096	2125	2153	2182	2211	2239	2268	2297	2325	2354	2383	2411	2440	
0.01	1185	2370	2403	2437	2470	2503	2537	2570	2603	2637	2670	2703	2737	2770	2803	2837	

- 1) For test separation distances > 50 mm and <200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by 1/2
- 3) SAR measurement procedures are not established below 100MHz.
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison

NFC:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (MHz)	Limit(mW)
-48.0	0.00002	5	13.56	118.5

The exclusion threshold is $0.00002 < 118.5$, therefore, the RF exposure evaluation is not required.

9.2 Test Results for Standalone SAR Test

Head SAR

GSM850 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GSM	Right Cheek	251	848.8	32.88	33.0	1.028	0.206	0.212
	GSM	Right Tilted	251	848.8	32.88	33.0	1.028	0.198	0.204
1.	GSM	Left Cheek	251	848.8	32.88	33.0	1.028	0.260	0.267
	GSM	Left Tilted	251	848.8	32.88	33.0	1.028	0.231	0.237

GPRS850 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GPRS_2TX	Right Cheek	251	848.8	31.91	32.0	1.021	0.331	0.338
	GPRS_2TX	Right Tilted	251	848.8	31.91	32.0	1.021	0.320	0.327
2.	GPRS_2TX	Left Cheek	251	848.8	31.91	32.0	1.021	0.462	0.472
	GPRS_2TX	Left Tilted	251	848.8	31.91	32.0	1.021	0.452	0.461

GSM1900 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GSM	Right Cheek	512	1850.2	29.42	29.5	1.019	0.118	0.120
	GSM	Right Tilted	512	1850.2	29.42	29.5	1.019	0.100	0.102
3.	GSM	Left Cheek	512	1850.2	29.42	29.5	1.019	0.171	0.174
	GSM	Left Tilted	512	1850.2	29.42	29.5	1.019	0.145	0.148

GPRS1900 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	M Hz					
	GPRS_2TX	Right Cheek	512	1850.2	28.54	29.0	1.112	0.180	0.200
	GPRS_2TX	Right Tilted	512	1850.2	28.54	29.0	1.112	0.169	0.188
4.	GPRS_2TX	Left Cheek	512	1850.2	28.54	29.0	1.112	0.219	0.243
	GPRS_2TX	Left Tilted	512	1850.2	28.54	29.0	1.112	0.200	0.222

WCDMA Band 2 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	RMC	Right Cheek	9538	1907.6	22.10	22.5	1.096	0.113	0.124
	RMC	Right Tilted	9538	1907.6	22.10	22.5	1.096	0.102	0.112
5.	RMC	Left Cheek	9538	1907.6	22.10	22.5	1.096	0.147	0.161
	RMC	Left Tilted	9538	1907.6	22.10	22.5	1.096	0.120	0.132

WCDMA Band 5 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	RMC	Right Cheek	4233	846.6	23.54	24.0	1.112	0.130	0.145
	RMC	Right Tilted	4233	846.6	23.54	24.0	1.112	0.112	0.125
6.	RMC	Left Cheek	4233	846.6	23.54	24.0	1.112	0.183	0.203
	RMC	Left Tilted	4233	846.6	23.54	24.0	1.112	0.156	0.173

LTE Band 2– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Right Cheek	1860	23.33	23.5	1.040	0.159	0.165
	QPSK 20MHz 1RB	Right Tilted	1860	23.33	23.5	1.040	0.122	0.127
7.	QPSK 20MHz 1RB	Left Cheek	1860	23.33	23.5	1.040	0.276	0.287
	QPSK 20MHz 1RB	Left Tilted	1860	23.33	23.5	1.040	0.268	0.279
	QPSK 20MHz 50%RB	Right Cheek	1860	23.33	23.5	1.040	0.142	0.148
	QPSK 20MHz 50%RB	Right Tilted	1860	23.33	23.5	1.040	0.110	0.114
	QPSK 20MHz 50%RB	Left Cheek	1860	23.33	23.5	1.040	0.263	0.273
	QPSK 20MHz 50%RB	Left Tilted	1860	23.33	23.5	1.040	0.252	0.262

LTE Band 4– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Right Cheek	1720	23.79	24.0	1.050	0.144	0.151
	QPSK 20MHz 1RB	Right Tilted	1720	23.79	24.0	1.050	0.131	0.137
8.	QPSK 20MHz 1RB	Left Cheek	1720	23.79	24.0	1.050	0.340	0.357
	QPSK 20MHz 1RB	Left Tilted	1720	23.79	24.0	1.050	0.234	0.246
	QPSK 20MHz 50%RB	Right Cheek	1720	23.79	24.0	1.050	0.132	0.139
	QPSK 20MHz 50%RB	Right Tilted	1720	23.79	24.0	1.050	0.122	0.128
	QPSK 20MHz 50%RB	Left Cheek	1720	23.79	24.0	1.050	0.320	0.336
	QPSK 20MHz 50%RB	Left Tilted	1720	23.79	24.0	1.050	0.220	0.231

LTE Band 5– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 10MHz 1RB	Right Cheek	829	22.50	23.0	1.122	0.185	0.208
	QPSK 10MHz 1RB	Right Tilted	829	22.50	23.0	1.122	0.165	0.185
9.	QPSK 10MHz 1RB	Left Cheek	829	22.50	23.0	1.122	0.272	0.305
	QPSK 10MHz 1RB	Left Tilted	829	22.50	23.0	1.122	0.266	0.298
	QPSK 10MHz 50%RB	Right Cheek	829	22.50	23.0	1.122	0.176	0.197
	QPSK 10MHz 50%RB	Right Tilted	829	22.50	23.0	1.122	0.163	0.183
	QPSK 10MHz 50%RB	Left Cheek	829	22.50	23.0	1.122	0.256	0.287
	QPSK 10MHz 50%RB	Left Tilted	829	22.50	23.0	1.122	0.235	0.264

LTE Band 7– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
10.	QPSK 20MHz 1RB	Right Cheek	2510	23.47	23.5	1.007	0.073	0.074
	QPSK 20MHz 1RB	Right Tilted	2510	23.47	23.5	1.007	0.070	0.070
	QPSK 20MHz 1RB	Left Cheek	2510	23.47	23.5	1.007	0.065	0.065
	QPSK 20MHz 1RB	Left Tilted	2510	23.47	23.5	1.007	0.061	0.061
	QPSK 20MHz 50%RB	Right Cheek	2510	23.47	23.5	1.007	0.069	0.069
	QPSK 20MHz 50%RB	Right Tilted	2510	23.47	23.5	1.007	0.062	0.062
	QPSK 20MHz 50%RB	Left Cheek	2510	23.47	23.5	1.007	0.059	0.059
	QPSK 20MHz 50%RB	Left Tilted	2510	23.47	23.5	1.007	0.053	0.053

LTE Band 38– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Right Cheek	2595	23.82	24.0	1.042	0.010	0.010
	QPSK 20MHz 1RB	Right Tilted	2595	23.82	24.0	1.042	0.009	0.009
11.	QPSK 20MHz 1RB	Left Cheek	2595	23.82	24.0	1.042	0.015	0.016
	QPSK 20MHz 1RB	Left Tilted	2595	23.82	24.0	1.042	0.011	0.011
	QPSK 20MHz 50%RB	Right Cheek	2595	23.82	24.0	1.042	0.009	0.009
	QPSK 20MHz 50%RB	Right Tilted	2595	23.82	24.0	1.042	0.007	0.007
	QPSK 20MHz 50%RB	Left Cheek	2595	23.82	24.0	1.042	0.012	0.013
	QPSK 20MHz 50%RB	Left Tilted	2595	23.82	24.0	1.042	0.010	0.010

LTE Band 40(2305-2315MHz)– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
12.	QPSK 10MHz 1RB	Right Cheek	2310	22.94	23.0	1.014	0.047	0.048
	QPSK 10MHz 1RB	Right Tilted	2310	22.94	23.0	1.014	0.042	0.043
	QPSK 10MHz 1RB	Left Cheek	2310	22.94	23.0	1.014	0.045	0.046
	QPSK 10MHz 1RB	Left Tilted	2310	22.94	23.0	1.014	0.040	0.041
	QPSK 10MHz 50%RB	Right Cheek	2310	22.94	23.0	1.014	0.045	0.046
	QPSK 10MHz 50%RB	Right Tilted	2310	22.94	23.0	1.014	0.040	0.041
	QPSK 10MHz 50%RB	Left Cheek	2310	22.94	23.0	1.014	0.043	0.044
	QPSK 10MHz 50%RB	Left Tilted	2310	22.94	23.0	1.014	0.039	0.040

LTE Band 40(2350-2360MHz)– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 10MHz 1RB	Right Cheek	2355	22.69	23.0	1.074	0.041	0.044
	QPSK 10MHz 1RB	Right Tilted	2355	22.69	23.0	1.074	0.039	0.042
13.	QPSK 10MHz 1RB	Left Cheek	2355	22.69	23.0	1.074	0.048	0.052
	QPSK 10MHz 1RB	Left Tilted	2355	22.69	23.0	1.074	0.046	0.049
	QPSK 10MHz 50%RB	Right Cheek	2355	22.69	23.0	1.074	0.040	0.043
	QPSK 10MHz 50%RB	Right Tilted	2355	22.69	23.0	1.074	0.036	0.039
	QPSK 10MHz 50%RB	Left Cheek	2355	22.69	23.0	1.074	0.046	0.049
	QPSK 10MHz 50%RB	Left Tilted	2355	22.69	23.0	1.074	0.043	0.046

LTE Band 41– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Right Cheek	2506	24.88	25.0	1.028	0.007	0.007
	QPSK 20MHz 1RB	Right Tilted	2506	24.88	25.0	1.028	0.005	0.005
14.	QPSK 20MHz 1RB	Left Cheek	2506	24.88	25.0	1.028	0.009	0.009
	QPSK 20MHz 1RB	Left Tilted	2506	24.88	25.0	1.028	0.007	0.007
	QPSK 20MHz 50%RB	Right Cheek	2506	24.88	25.0	1.028	0.006	0.006
	QPSK 20MHz 50%RB	Right Tilted	2506	24.88	25.0	1.028	0.004	0.004
	QPSK 20MHz 50%RB	Left Cheek	2506	24.88	25.0	1.028	0.008	0.008
	QPSK 20MHz 50%RB	Left Tilted	2506	24.88	25.0	1.028	0.005	0.005

WLAN 2.4GHz – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
15.	802.11b	Right Cheek	01	2412	16.11	16.5	1.094	0.206	0.225
	802.11b	Right Tilted	01	2412	16.11	16.5	1.094	0.198	0.217
	802.11b	Left Cheek	01	2412	16.11	16.5	1.094	0.178	0.195
	802.11b	Left Tilted	01	2412	16.11	16.5	1.094	0.165	0.181

Bluetooth – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
16.	GFSK	Right Cheek	39	2441	7.01	7.5	1.119	0.073	0.082
	GFSK	Right Tilted	39	2441	7.01	7.5	1.119	0.064	0.072
	GFSK	Left Cheek	39	2441	7.01	7.5	1.119	0.043	0.048
	GFSK	Left Tilted	39	2441	7.01	7.5	1.119	0.033	0.037

WLAN 5.2GHz – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	802.11a	Right Cheek	36	5180	15.23	15.5	1.064	0.404	0.430
	802.11a	Right Tilted	36	5180	15.23	15.5	1.064	0.398	0.424
17.	802.11a	Left Cheek	36	5180	15.23	15.5	1.064	0.433	0.461
	802.11a	Left Tilted	36	5180	15.23	15.5	1.064	0.421	0.448

WLAN 5.3GHz – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	802.11a	Right Cheek	56	5280	13.24	13.5	1.062	0.207	0.220
	802.11a	Right Tilted	56	5280	13.24	13.5	1.062	0.199	0.211
18.	802.11a	Left Cheek	56	5280	13.24	13.5	1.062	0.311	0.330
	802.11a	Left Tilted	56	5280	13.24	13.5	1.062	0.301	0.320

WLAN 5.6GHz– Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	802.11a	Right Cheek	100	5500	11.76	12.0	1.057	0.139	0.147
	802.11a	Right Tilted	100	5500	11.76	12.0	1.057	0.112	0.118
19.	802.11a	Left Cheek	100	5500	11.76	12.0	1.057	0.204	0.216
	802.11a	Left Tilted	100	5500	11.76	12.0	1.057	0.195	0.206

WLAN 5.8GHz– Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
20.	802.11ac (20MHz)	Right Cheek	149	5745	11.13	11.5	1.089	0.338	0.368
	802.11ac (20MHz)	Right Tilted	149	5745	11.13	11.5	1.089	0.322	0.351
	802.11ac (20MHz)	Left Cheek	149	5745	11.13	11.5	1.089	0.305	0.332
	802.11ac (20MHz)	Left Tilted	149	5745	11.13	11.5	1.089	0.300	0.327

Remark: Per KDB 447498 D01 v06, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

Body-worn SAR

GSM850 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
21.	GSM	Back	251	848.8	32.88	33.0	1.028	0.145	0.149
	GSM	Front	251	848.8	32.88	33.0	1.028	0.052	0.053

GSM1900 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GSM	Back	512	1850.2	29.42	29.5	1.019	0.152	0.155
22.	GSM	Front	512	1850.2	29.42	29.5	1.019	0.391	0.398

WCDMA Band 2 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	RMC 12.2k	Back Side	9538	1907.6	22.10	22.5	1.096	0.150	0.164
23.	RMC 12.2k	Front Face	9538	1907.6	22.10	22.5	1.096	0.425	0.466

WCDMA Band 5 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
24.	RMC 12.2k	Back Side	4233	846.6	23.54	24.0	1.112	0.123	0.137
	RMC 12.2k	Front Side	4233	846.6	23.54	24.0	1.112	0.067	0.074

LTE Band 2–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	1860	23.33	23.5	1.040	0.190	0.198
25.	QPSK 20MHz 1RB	Front Side	1860	23.33	23.5	1.040	0.527	0.548
	QPSK 20MHz 50%RB	Back Side	1860	23.33	23.5	1.040	0.178	0.185
	QPSK 20MHz 50%RB	Front Side	1860	23.33	23.5	1.040	0.510	0.530

LTE Band 4–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	1720	23.79	24.0	1.050	0.292	0.306
26.	QPSK 20MHz 1RB	Front Side	1720	23.79	24.0	1.050	0.615	0.645
	QPSK 20MHz 50%RB	Back Side	1720	23.79	24.0	1.050	0.286	0.300
	QPSK 20MHz 50%RB	Front Side	1720	23.79	24.0	1.050	0.595	0.624

LTE Band 5–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
27.	QPSK 10MHz 1RB	Back Side	829	22.50	23.0	1.122	0.146	0.164
	QPSK 10MHz 1RB	Front Side	829	22.50	23.0	1.122	0.137	0.154
	QPSK 10MHz 50%RB	Back Side	829	22.50	23.0	1.122	0.140	0.157
	QPSK 10MHz 50%RB	Front Side	829	22.50	23.0	1.122	0.132	0.148

LTE Band 7–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	2510	23.47	23.5	1.007	0.054	0.054
28.	QPSK 20MHz 1RB	Front Side	2510	23.47	23.5	1.007	0.108	0.109
	QPSK 20MHz 50%RB	Back Side	2510	23.47	23.5	1.007	0.043	0.043
	QPSK 20MHz 50%RB	Front Side	2510	23.47	23.5	1.007	0.098	0.099

LTE Band 38–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	2595	23.82	24.0	1.042	0.020	0.021
29.	QPSK 20MHz 1RB	Front Side	2595	23.82	24.0	1.042	0.035	0.036
	QPSK 20MHz 50%RB	Back Side	2595	23.82	24.0	1.042	0.016	0.017
	QPSK 20MHz 50%RB	Front Side	2595	23.82	24.0	1.042	0.030	0.031

LTE Band 40(2305-2315MHz)–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 10MHz 1RB	Back Side	2310	22.94	23.0	1.014	0.073	0.074
30.	QPSK 10MHz 1RB	Front Side	2310	22.94	23.0	1.014	0.096	0.097
	QPSK 10MHz 50%RB	Back Side	2310	22.94	23.0	1.014	0.066	0.067
	QPSK 10MHz 50%RB	Front Side	2310	22.94	23.0	1.014	0.089	0.090

LTE Band 40(2350-2360MHz)–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 10MHz 1RB	Back Side	2355	22.69	23.0	1.074	0.087	0.093
31.	QPSK 10MHz 1RB	Front Side	2355	22.69	23.0	1.074	0.099	0.106
	QPSK 10MHz 50%RB	Back Side	2355	22.69	23.0	1.074	0.083	0.089
	QPSK 10MHz 50%RB	Front Side	2355	22.69	23.0	1.074	0.094	0.101

LTE Band 41–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	2506	24.88	25.0	1.028	0.015	0.015
32.	QPSK 20MHz 1RB	Front Side	2506	24.88	25.0	1.028	0.018	0.019
	QPSK 20MHz 50%RB	Back Side	2506	24.88	25.0	1.028	0.013	0.013
	QPSK 20MHz 50%RB	Front Side	2506	24.88	25.0	1.028	0.016	0.016

WLAN 2.4GHz –Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	802.11b	Back Side	01	2412	16.11	16.5	1.094	0.088	0.096
33.	802.11b	Front Side	01	2412	16.11	16.5	1.094	0.152	0.166

Bluetooth–Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GFSK	Back Face	39	2441	7.01	7.5	1.119	0.009	0.010
34.	GFSK	Front Face	39	2441	7.01	7.5	1.119	0.022	0.025

WLAN 5.2GHz –Body SAR Test(Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
35.	802.11a	Back Face	36	5180	15.23	15.5	1.064	0.380	0.404
	802.11a	Front Face	36	5180	15.23	15.5	1.064	0.135	0.144

WLAN 5.3GHz –Body SAR Test(Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
36.	802.11a	Back Face	56	5280	13.24	13.5	1.062	0.229	0.243
	802.11a	Front Face	56	5280	13.24	13.5	1.062	0.036	0.038

WLAN 5.6GHz–Body SAR Test(Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
37.	802.11a	Back Face	100	5500	11.76	12.0	1.057	0.194	0.205
	802.11a	Front Face	100	5500	11.76	12.0	1.057	0.044	0.046

WLAN 5.8GHz –Body SAR Test(Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
38.	802.11ac (20MHz)	Back Face	149	5745	11.13	11.5	1.089	0.211	0.258
	802.11ac (20MHz)	Front Face	149	5745	11.13	11.5	1.089	0.032	0.039

Hotspot SAR

GSM850 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
39.	GPRS_2TX	Back Side	251	848.8	31.91	32.0	1.021	0.272	0.278
	GPRS_2TX	Front Side	251	848.8	31.91	32.0	1.021	0.146	0.149
	GPRS_2TX	Left side	251	848.8	31.91	32.0	1.021	0.202	0.206
	GPRS_2TX	Bottom side	251	848.8	31.91	32.0	1.021	0.158	0.161

GSM1900 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GPRS_2TX	Back Side	512	1850.2	28.54	29.0	1.112	0.230	0.256
40.	GPRS_2TX	Front Side	512	1850.2	28.54	29.0	1.112	0.566	0.629
	GPRS_2TX	Left side	512	1850.2	28.54	29.0	1.112	0.427	0.475
	GPRS_2TX	Bottom side	512	1850.2	28.54	29.0	1.112	0.326	0.362

WCDMA Band 2 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	RMC 12.2k	Back Side	9538	1907.6	22.10	22.5	1.096	0.150	0.164
41.	RMC 12.2k	Front Side	9538	1907.6	22.10	22.5	1.096	0.425	0.466
	RMC 12.2k	Left side	9538	1907.6	22.10	22.5	1.096	0.217	0.238
	RMC 12.2k	Bottom side	9538	1907.6	22.10	22.5	1.096	0.269	0.295

WCDMA Band 5 – Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
42.	RMC 12.2k	Back Side	4233	846.6	23.54	24.0	1.112	0.123	0.137
	RMC 12.2k	Front Side	4233	846.6	23.54	24.0	1.112	0.067	0.074
	RMC 12.2k	Left side	4233	846.6	23.54	24.0	1.112	0.061	0.068
	RMC 12.2k	Bottom side	4233	846.6	23.54	24.0	1.112	0.047	0.052

LTE Band 2–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	1860	23.33	23.5	1.040	0.190	0.198
43.	QPSK 20MHz 1RB	Front Side	1860	23.33	23.5	1.040	0.527	0.548
	QPSK 20MHz 1RB	Left side	1860	23.33	23.5	1.040	0.225	0.234
	QPSK 20MHz 1RB	Bottom side	1860	23.33	23.5	1.040	0.340	0.354
	QPSK 20MHz 50%RB	Back Side	1860	23.33	23.5	1.040	0.178	0.185
	QPSK 20MHz 50%RB	Front Side	1860	23.33	23.5	1.040	0.510	0.530
	QPSK 20MHz 50%RB	Left side	1860	23.33	23.5	1.040	0.212	0.220
	QPSK 20MHz 50%RB	Bottom side	1860	23.33	23.5	1.040	0.322	0.335

LTE Band 4–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	1720	23.79	24.0	1.050	0.292	0.306
44.	QPSK 20MHz 1RB	Front Side	1720	23.79	24.0	1.050	0.615	0.645
	QPSK 20MHz 1RB	Left side	1720	23.79	24.0	1.050	0.452	0.474
	QPSK 20MHz 1RB	Bottom side	1720	23.79	24.0	1.050	0.352	0.369
	QPSK 20MHz 50%RB	Back Side	1720	23.79	24.0	1.050	0.286	0.300
	QPSK 20MHz 50%RB	Front Side	1720	23.79	24.0	1.050	0.595	0.624
	QPSK 20MHz 50%RB	Left side	1720	23.79	24.0	1.050	0.430	0.451
	QPSK 20MHz 50%RB	Bottom side	1720	23.79	24.0	1.050	0.310	0.325

LTE Band 5–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
45.	QPSK 10MHz 1RB	Back Side	829	22.50	23.0	1.122	0.146	0.164
	QPSK 10MHz 1RB	Front Side	829	22.50	23.0	1.122	0.137	0.154
	QPSK 10MHz 1RB	Left side	829	22.50	23.0	1.122	0.105	0.118
	QPSK 10MHz 1RB	Bottom side	829	22.50	23.0	1.122	0.080	0.090
	QPSK 10MHz 50%RB	Back Side	829	22.50	23.0	1.122	0.140	0.157
	QPSK 10MHz 50%RB	Front Side	829	22.50	23.0	1.122	0.132	0.148
	QPSK 10MHz 50%RB	Left side	829	22.50	23.0	1.122	0.099	0.111
	QPSK 10MHz 50%RB	Bottom side	829	22.50	23.0	1.122	0.071	0.080

LTE Band 7–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	2510	23.47	23.5	1.007	0.054	0.054
	QPSK 20MHz 1RB	Front Side	2510	23.47	23.5	1.007	0.108	0.109
46.	QPSK 20MHz 1RB	Left side	2510	23.47	23.5	1.007	0.152	0.153
	QPSK 20MHz 1RB	Bottom side	2510	23.47	23.5	1.007	0.097	0.098
	QPSK 20MHz 50%RB	Back Side	2510	23.47	23.5	1.007	0.043	0.043
	QPSK 20MHz 50%RB	Front Side	2510	23.47	23.5	1.007	0.098	0.099
	QPSK 20MHz 50%RB	Left side	2510	23.47	23.5	1.007	0.134	0.135
	QPSK 20MHz 50%RB	Bottom side	2510	23.47	23.5	1.007	0.086	0.087

LTE Band 38–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	2595	23.82	24.0	1.042	0.020	0.021
47.	QPSK 20MHz 1RB	Front Side	2595	23.82	24.0	1.042	0.035	0.036
	QPSK 20MHz 1RB	Left side	2595	23.82	24.0	1.042	0.013	0.014
	QPSK 20MHz 1RB	Bottom side	2595	23.82	24.0	1.042	0.020	0.021
	QPSK 20MHz 50%RB	Back Side	2595	23.82	24.0	1.042	0.016	0.017
	QPSK 20MHz 50%RB	Front Side	2595	23.82	24.0	1.042	0.030	0.031
	QPSK 20MHz 50%RB	Left side	2595	23.82	24.0	1.042	0.010	0.010
	QPSK 20MHz 50%RB	Bottom side	2595	23.82	24.0	1.042	0.015	0.016

LTE Band 40(2305-2315MHz)–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 10MHz 1RB	Back Side	2310	22.94	23.0	1.014	0.073	0.074
48.	QPSK 10MHz 1RB	Front Side	2310	22.94	23.0	1.014	0.096	0.097
	QPSK 10MHz 1RB	Left side	2310	22.94	23.0	1.014	0.034	0.034
	QPSK 10MHz 1RB	Bottom side	2310	22.94	23.0	1.014	0.052	0.053
	QPSK 10MHz 50%RB	Back Side	2310	22.94	23.0	1.014	0.066	0.067
	QPSK 10MHz 50%RB	Front Side	2310	22.94	23.0	1.014	0.089	0.090
	QPSK 10MHz 50%RB	Left side	2310	22.94	23.0	1.014	0.022	0.022
	QPSK 10MHz 50%RB	Bottom side	2310	22.94	23.0	1.014	0.046	0.047

LTE Band 40(2350-2360MHz)–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 10MHz 1RB	Back Side	2355	22.69	23.0	1.074	0.087	0.093
49.	QPSK 10MHz 1RB	Front Side	2355	22.69	23.0	1.074	0.099	0.106
	QPSK 10MHz 1RB	Left side	2355	22.69	23.0	1.074	0.027	0.029
	QPSK 10MHz 1RB	Bottom side	2355	22.69	23.0	1.074	0.048	0.052
	QPSK 10MHz 50%RB	Back Side	2355	22.69	23.0	1.074	0.083	0.089
	QPSK 10MHz 50%RB	Front Side	2355	22.69	23.0	1.074	0.094	0.101
	QPSK 10MHz 50%RB	Left side	2355	22.69	23.0	1.074	0.022	0.024
	QPSK 10MHz 50%RB	Bottom side	2355	22.69	23.0	1.074	0.043	0.046

LTE Band 41–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	2506	24.88	25.0	1.028	0.015	0.015
50.	QPSK 20MHz 1RB	Front Side	2506	24.88	25.0	1.028	0.018	0.019
	QPSK 20MHz 1RB	Left side	2506	24.88	25.0	1.028	0.013	0.013
	QPSK 20MHz 1RB	Bottom side	2506	24.88	25.0	1.028	0.012	0.012
	QPSK 20MHz 50%RB	Back Side	2506	24.88	25.0	1.028	0.013	0.013
	QPSK 20MHz 50%RB	Front Side	2506	24.88	25.0	1.028	0.016	0.016
	QPSK 20MHz 50%RB	Left side	2506	24.88	25.0	1.028	0.011	0.011
	QPSK 20MHz 50%RB	Bottom side	2506	24.88	25.0	1.028	0.010	0.010

WLAN 2.4GHz –Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	802.11b	Back Side	01	2412	16.11	16.5	1.094	0.088	0.096
51.	802.11b	Front Side	01	2412	16.11	16.5	1.094	0.152	0.166
	802.11b	Left side	01	2412	16.11	16.5	1.094	0.131	0.143
	802.11b	Top side	01	2412	16.11	16.5	1.094	0.086	0.094

Bluetooth–Body SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GFSK	Back Side	39	2441	7.01	7.5	1.119	0.009	0.010
52.	GFSK	Front Side	39	2441	7.01	7.5	1.119	0.022	0.025
	GFSK	Left side	39	2441	7.01	7.5	1.119	0.018	0.020
	GFSK	Top side	39	2441	7.01	7.5	1.119	0.015	0.017

WLAN 5.2GHz –Body SAR Test(Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
53.	802.11a	Back Side	36	5180	15.23	15.5	1.064	0.380	0.404
	802.11a	Front Side	36	5180	15.23	15.5	1.064	0.135	0.144
	802.11a	Left side	36	5180	15.23	15.5	1.064	0.077	0.082
	802.11a	Top side	36	5180	15.23	15.5	1.064	0.278	0.296

WLAN 5.8GHz –Body SAR Test(Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
54.	802.11ac (20MHz)	Back Side	149	5745	11.13	11.5	1.089	0.211	0.230
	802.11ac (20MHz)	Front Side	149	5745	11.13	11.5	1.089	0.032	0.035
	802.11ac (20MHz)	Left side	149	5745	11.13	11.5	1.089	0.069	0.075
	802.11ac (20MHz)	Top side	149	5745	11.13	11.5	1.089	0.028	0.030

Remark: Per KDB 447498 D01 v06, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Head SAR	Body SAR
1	GSM(Voice/Data) + WLAN(2.4GHz)(Data)+NFC(Data)	Yes	Yes
2	WCDMA (Voice/Data)+ WLAN(2.4GHz)(Data) +NFC(Data)	Yes	Yes
3	LTE(Data) + WLAN(2.4GHz)(Data) +NFC(Data)	Yes	Yes
4	GSM(Voice/Data) + WLAN(5GHz)(Data) +NFC(Data)	Yes	Yes
5	WCDMA (Voice/Data)+ WLAN(5GHz)(Data) +NFC(Data)	Yes	Yes
6	LTE(Data) + WLAN(5GHz)(Data) +NFC(Data)	Yes	Yes
7	GSM(Voice/Data) + Bluetooth(Data) +NFC(Data)	Yes	Yes
8	WCDMA (Voice/Data) + Bluetooth(Data) +NFC(Data)	Yes	Yes
9	LTE(Data) + Bluetooth(Data) +NFC(Data)	Yes	Yes

Remark:

1. GSM, WCDMA and LTE share the same antenna, and cannot transmit simultaneously.
2. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
3. According to the KDB 447498 D01 v06, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})} / x]$
W/kg for test separation distances ≤ 50 mm;

where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

For simultaneous transmission analysis, NFC SAR is estimated per KDB 447498 D01 v06 as below:

NFC:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	X	SAR(1g) 5mm	SAR(1g) 10mm
-48.0	0.00002	5/10	0.01356	7.5	0.00001	0.00001

4. The maximum SAR summation is calculated based on the same configuration and test position.

Head SAR**WWAN and WLAN**

	WWAN		WLAN(2.4GHz)	NFC	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.338	0.225	0.00001	0.563
Right Tilted	GSM	0.327	0.217	0.00001	0.544
Left Cheek	GSM	0.472	0.195	0.00001	0.667
Left Tilted	GSM	0.461	0.181	0.00001	0.642
Right Cheek	WCDMA	0.145	0.225	0.00001	0.370
Right Tilted	WCDMA	0.125	0.217	0.00001	0.342
Left Cheek	WCDMA	0.203	0.195	0.00001	0.398
Left Tilted	WCDMA	0.173	0.181	0.00001	0.354
Right Cheek	LTE	0.208	0.225	0.00001	0.433
Right Tilted	LTE	0.185	0.217	0.00001	0.402
Left Cheek	LTE	0.357	0.195	0.00001	0.552
Left Tilted	LTE	0.298	0.181	0.00001	0.479

WWAN and WLAN

	WWAN		WLAN(5GHz)	NFC	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.338	0.430	0.00001	0.768
Right Tilted	GSM	0.327	0.424	0.00001	0.751
Left Cheek	GSM	0.472	0.461	0.00001	0.933
Left Tilted	GSM	0.461	0.448	0.00001	0.909
Right Cheek	WCDMA	0.145	0.430	0.00001	0.575
Right Tilted	WCDMA	0.125	0.424	0.00001	0.549
Left Cheek	WCDMA	0.203	0.461	0.00001	0.664
Left Tilted	WCDMA	0.173	0.448	0.00001	0.621
Right Cheek	LTE	0.208	0.430	0.00001	0.638
Right Tilted	LTE	0.185	0.424	0.00001	0.609
Left Cheek	LTE	0.357	0.461	0.00001	0.818
Left Tilted	LTE	0.298	0.448	0.00001	0.746

Note:

WWAN + Bluetooth test result less than the WWAN + WLAN (2.4GHz/5GHz) test result, so the WWAN + Bluetooth test result is not show in the test report.

Body-worn SAR**WWAN and WLAN**

	WWAN		WLAN(2.4GHz)	NFC	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.155	0.096	0.00001	0.251
Front	GSM	0.398	0.166	0.00001	0.564
Back	WCDMA	0.164	0.096	0.00001	0.260
Front	WCDMA	0.466	0.166	0.00001	0.632
Back	LTE	0.306	0.096	0.00001	0.402
Front	LTE	0.645	0.166	0.00001	0.811

WWAN and WLAN

	WWAN		WLAN(5GHz)	NFC	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.155	0.404	0.00001	0.559
Front	GSM	0.398	0.144	0.00001	0.542
Back	WCDMA	0.164	0.404	0.00001	0.568
Front	WCDMA	0.466	0.144	0.00001	0.610
Back	LTE	0.306	0.404	0.00001	0.710
Front	LTE	0.645	0.144	0.00001	0.789

Note:

WWAN + Bluetooth test result less than the WWAN + WLAN (2.4GHz/5GHz) test result, so the WWAN + Bluetooth test result is not show in the test report.

Hotspot SAR**WWAN and WLAN**

	WWAN		WLAN(2.4GHz)	NFC	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.278	0.096	0.00001	0.374
Front	GSM	0.629	0.166	0.00001	0.795
Right side	GSM	--	--	0.00001	0.000
Left side	GSM	0.475	0.143	0.00001	0.618
Bottom side	GSM	0.362	--	0.00001	0.362
Top side	GSM	--	0.094	0.00001	0.094
Back	WCDMA	0.164	0.096	0.00001	0.260
Front	WCDMA	0.466	0.166	0.00001	0.632
Right side	WCDMA	--	--	0.00001	0.000
Left side	WCDMA	0.238	0.143	0.00001	0.381
Bottom side	WCDMA	0.295	--	0.00001	0.295
Top side	WCDMA	--	0.094	0.00001	0.094
Back	LTE	0.306	0.096	0.00001	0.402
Front	LTE	0.645	0.166	0.00001	0.811
Right side	LTE	--	--	0.00001	0.000
Left side	LTE	0.474	0.143	0.00001	0.617
Bottom side	LTE	0.369	--	0.00001	0.369
Top side	LTE	--	0.094	0.00001	0.094

WWAN and WLAN

	WWAN		WLAN(5GHz)	NFC	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.278	0.404	0.00001	0.682
Front	GSM	0.629	0.144	0.00001	0.773
Right side	GSM	--	--	0.00001	0.000
Left side	GSM	0.475	0.082	0.00001	0.557
Bottom side	GSM	0.362	--	0.00001	0.362
Top side	GSM	--	0.296	0.00001	0.296
Back	WCDMA	0.164	0.404	0.00001	0.568
Front	WCDMA	0.466	0.144	0.00001	0.610
Right side	WCDMA	--	--	0.00001	0.000
Left side	WCDMA	0.238	0.082	0.00001	0.320
Bottom side	WCDMA	0.295	--	0.00001	0.295
Top side	WCDMA	--	0.296	0.00001	0.296
Back	LTE	0.306	0.404	0.00001	0.710
Front	LTE	0.645	0.144	0.00001	0.789
Right side	LTE	--	--	0.00001	0.000
Left side	LTE	0.474	0.082	0.00001	0.556
Bottom side	LTE	0.369	--	0.00001	0.369
Top side	LTE	--	0.296	0.00001	0.296

Note:

WWAN + Bluetooth test result less than the WWAN + WLAN (2.4GHz/5GHz) test result, so the WWAN + Bluetooth test result is not show in the test report.

10. Measurement Uncertainty

10.1 Uncertainty for SAR Test

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	$(1_{Cp})^{1/2}$	$(1_{Cp})^{1/2}$	1.02	1.02	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	$(Cp)^{1/2}$	$(Cp)^{1/2}$	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF ambient Conditions – Noise	E.6.1	0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	E.6.1	0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Test Sample Related									
Test sample positioning	E.4.2	0.03	N	1	1	1	0.03	0.03	N-1
Device Holder Uncertainty	E.4.1	5.00	N	1	1	1	5.00	5.00	
Output power Variation - SAR drift measurement	E.2.9	12.02	R	$\sqrt{3}$	1	1	6.94	6.94	∞
SAR scaling	E6.5	0.0	R	$\sqrt{3}$	1	1	0.0	0.0	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E3.2	1.9	R	$\sqrt{3}$	1	0.84	1.10	0.90	∞

Liquid conductivity - deviation from target value	E.3.2	0	R	$\sqrt{3}$	0	0.43	0	0	∞
Liquid conductivity - measurement uncertainty	E.3.3	4.00	N	1	0.64	0.43	1.10	1.10	∞
Liquid permittivity - deviation from target value	E.3.2	0	R	$\sqrt{3}$	0	0.49	0	0	∞
Liquid permittivity - measurement uncertainty	E.3.3	5.00	N	1	0.6	0.49	1.47	1.47	∞
Combined Standard Uncertainty			RSS				10.20	10.00	
Expanded Uncertainty (95% Confidence interval)			K=2				20.40	20.00	

Annex A. Plots of System Performance Check

MEASUREMENT 1

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-09-11
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.71; Calibrated: 2023-07-07

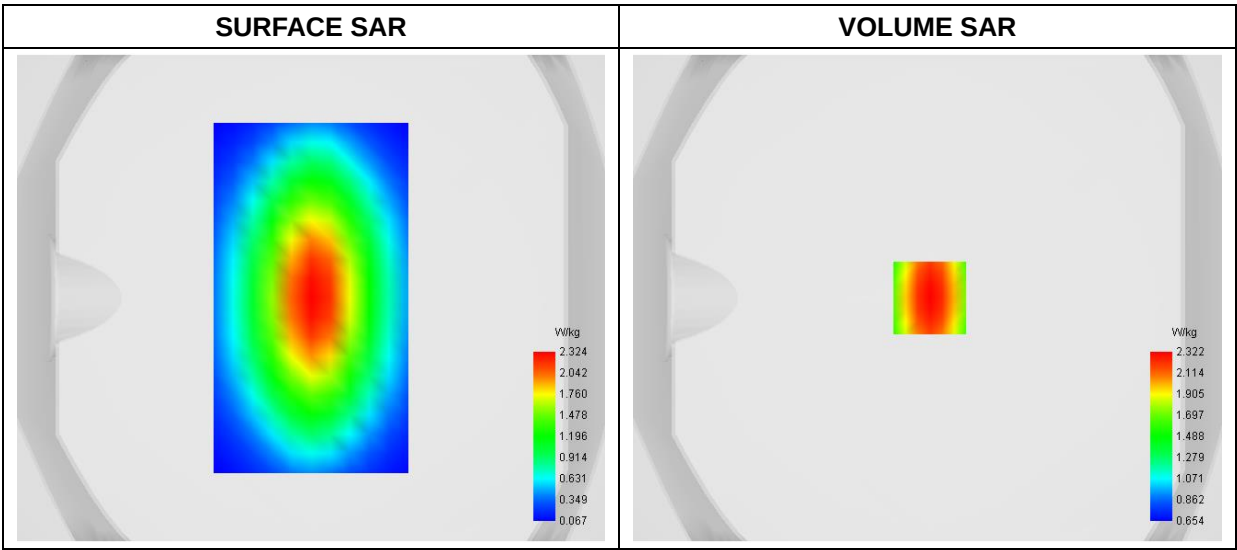
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative Permittivity (real part)	40.752489
Conductivity (S/m)	0.881417
Power Variation (%)	-1.884700
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

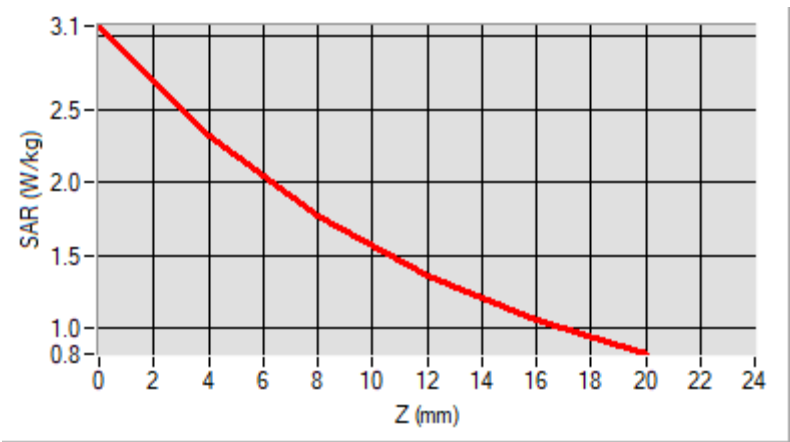


Maximum location: X=1.00, Y=0.00
D. SAR 1g & 10g

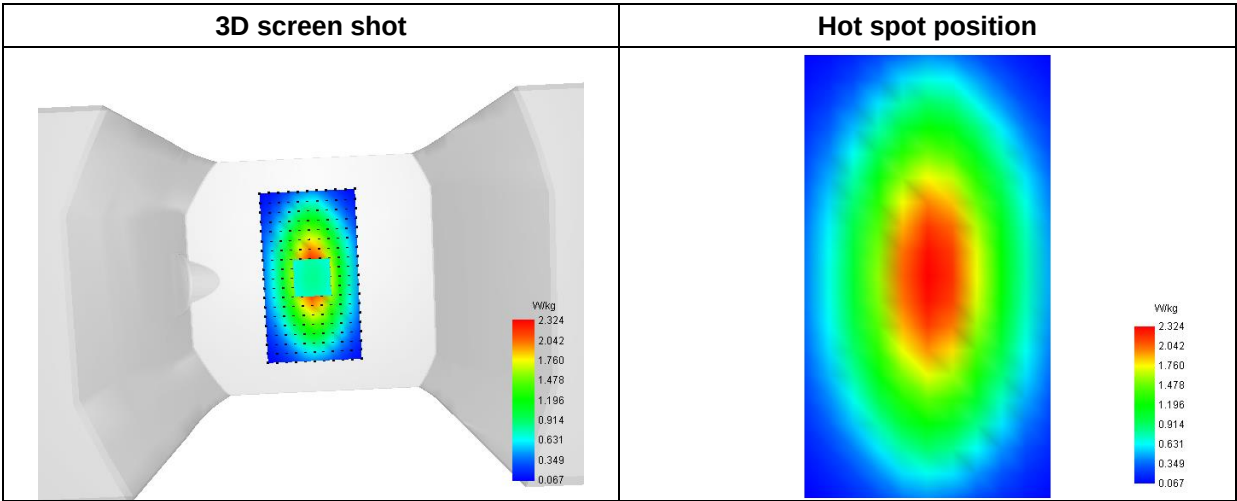
SAR 10g (W/Kg)	1.527360
SAR 1g (W/Kg)	2.210386

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	3.0677	2.3224	1.7644	1.3585	1.0631



F. 3D Image



MEASUREMENT 2

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-09-12
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.11; Calibrated: 2023-07-07

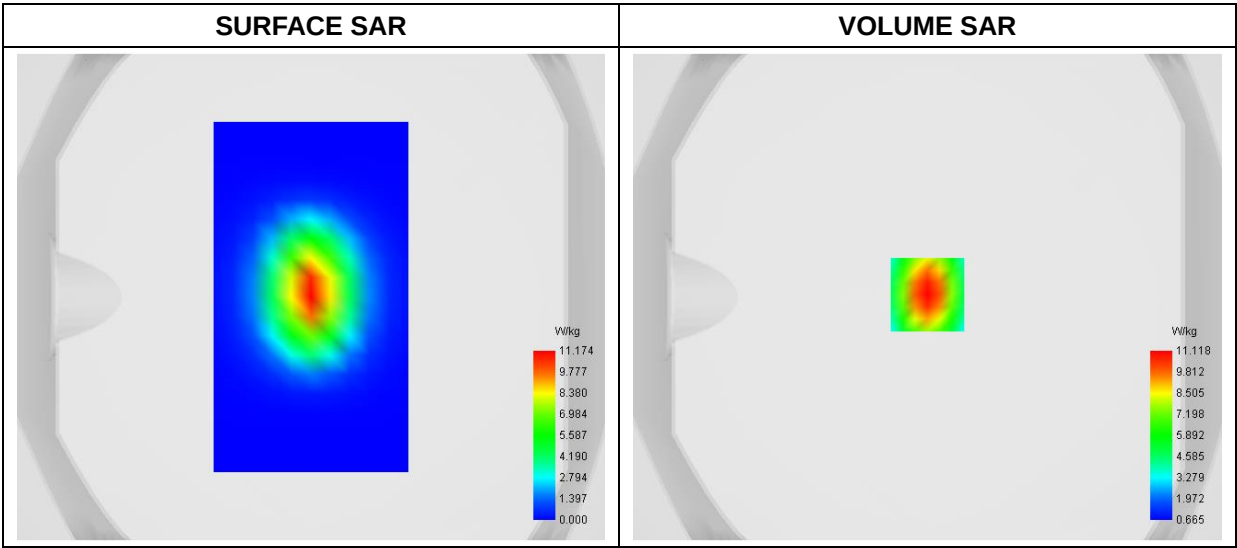
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative Permittivity (real part)	39.432447
Conductivity (S/m)	1.381485
Power Variation (%)	1.425800
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

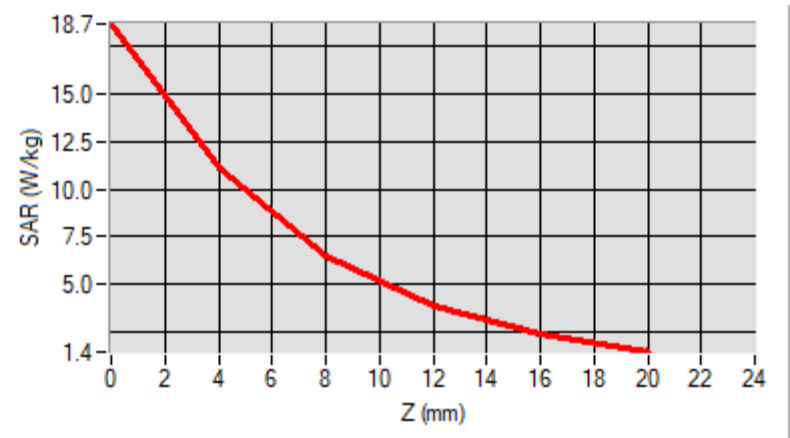


Maximum location: X=0.00, Y=1.00
D. SAR 1g & 10g

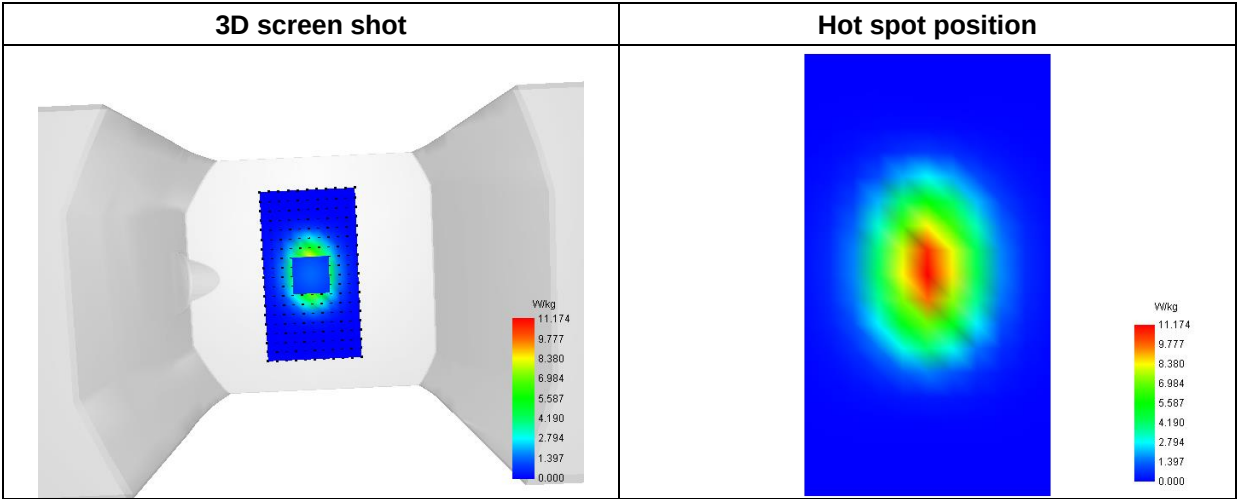
SAR 10g (W/Kg)	5.260825
SAR 1g (W/Kg)	10.222516

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	18.6940	11.1182	6.4717	3.8103	2.3414



F. 3D Image



MEASUREMENT 3

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-09-12
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.21; Calibrated: 2023-07-07

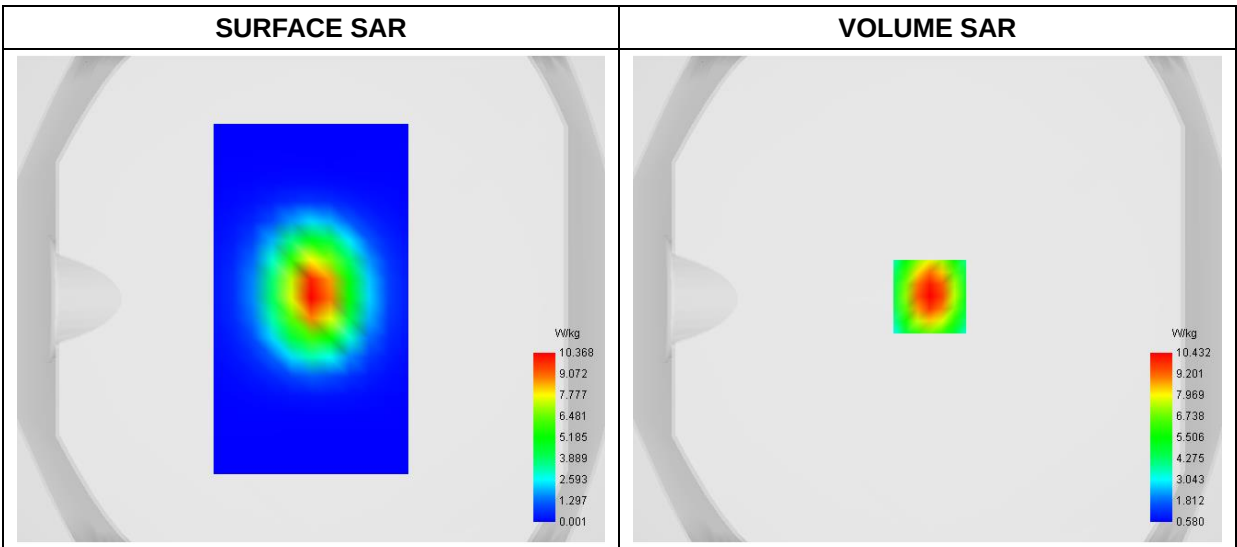
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	39.062574
Conductivity (S/m)	1.393135
Power Variation (%)	-1.224700
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

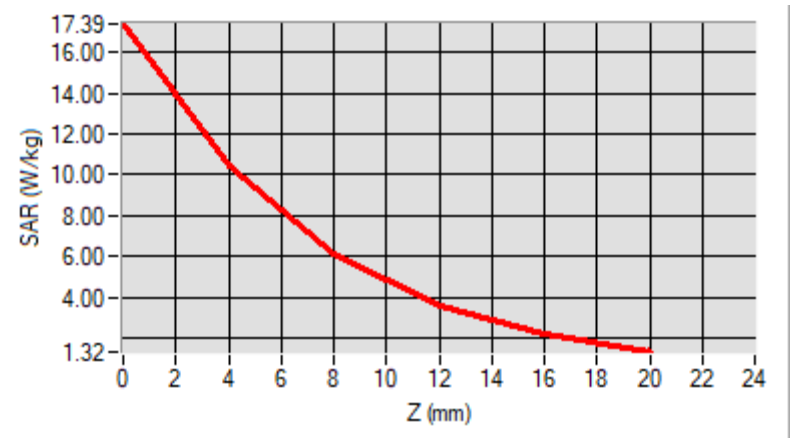


Maximum location: X=1.00, Y=1.00
D. SAR 1g & 10g

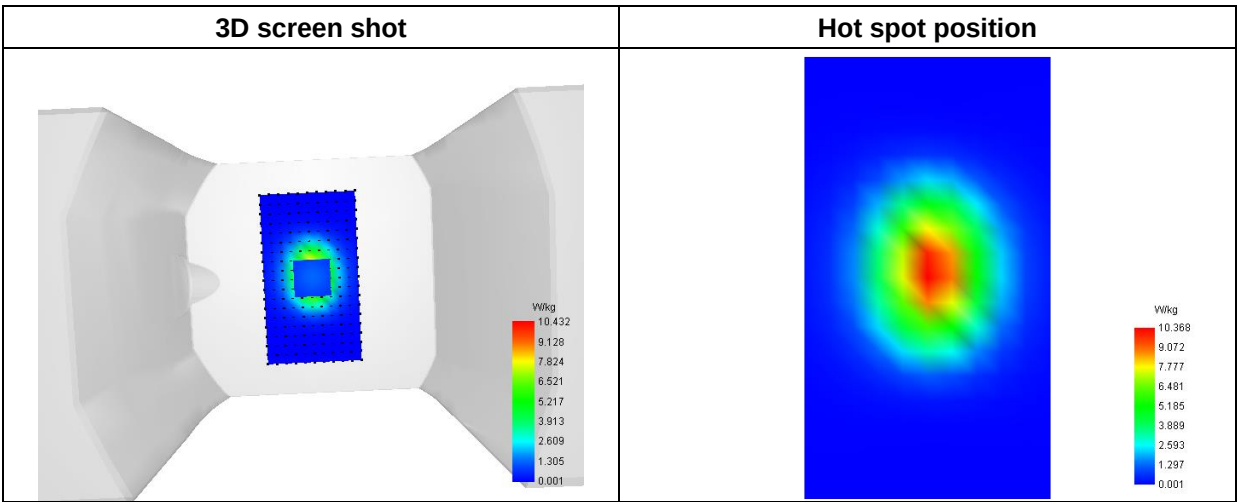
SAR 10g (W/Kg)	4.968858
SAR 1g (W/Kg)	9.623880

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	17.3936	10.4322	6.1187	3.6132	2.2066



F. 3D Image



MEASUREMENT 4

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-09-13
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.41; Calibrated: 2023-07-07

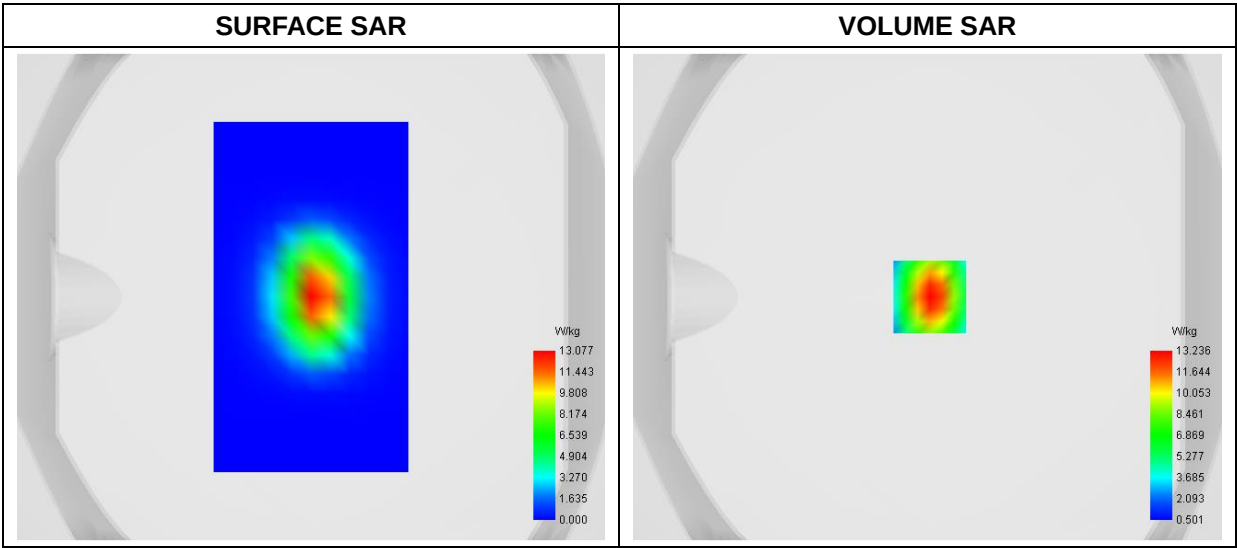
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2300
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2300.000000
Relative Permittivity (real part)	39.173829
Conductivity (S/m)	1.632785
Power Variation (%)	-1.128500
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

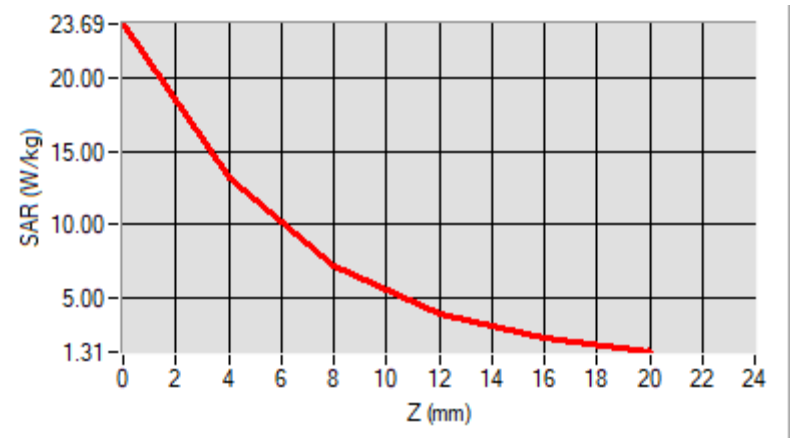


Maximum location: X=1.00, Y=0.00
D. SAR 1g & 10g

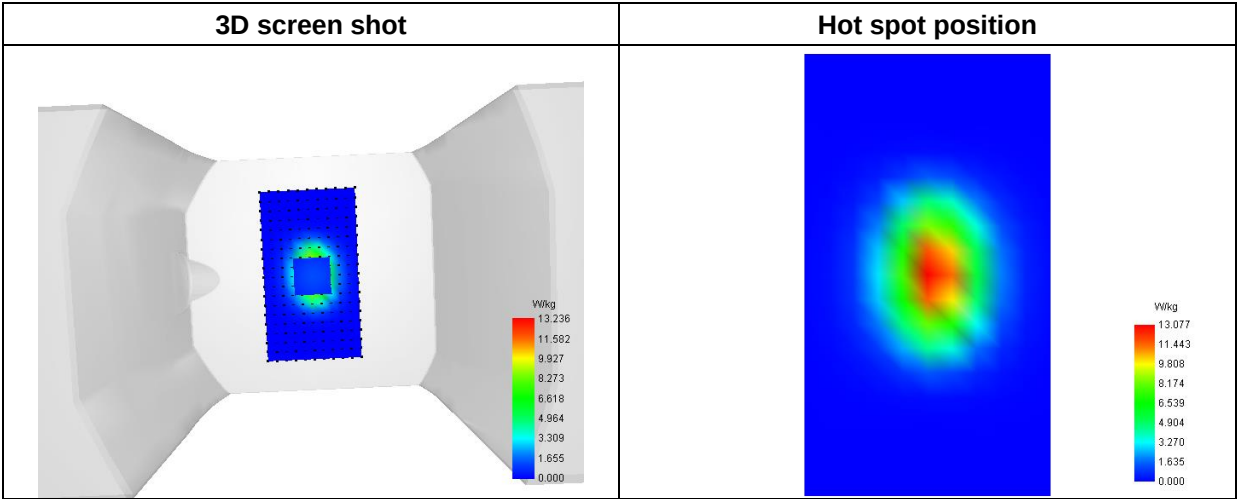
SAR 10g (W/Kg)	5.846344
SAR 1g (W/Kg)	12.126085

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	23.6924	13.2363	7.1523	3.9032	2.2625



F. 3D Image



MEASUREMENT 5

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-09-14
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.29; Calibrated: 2023-07-07

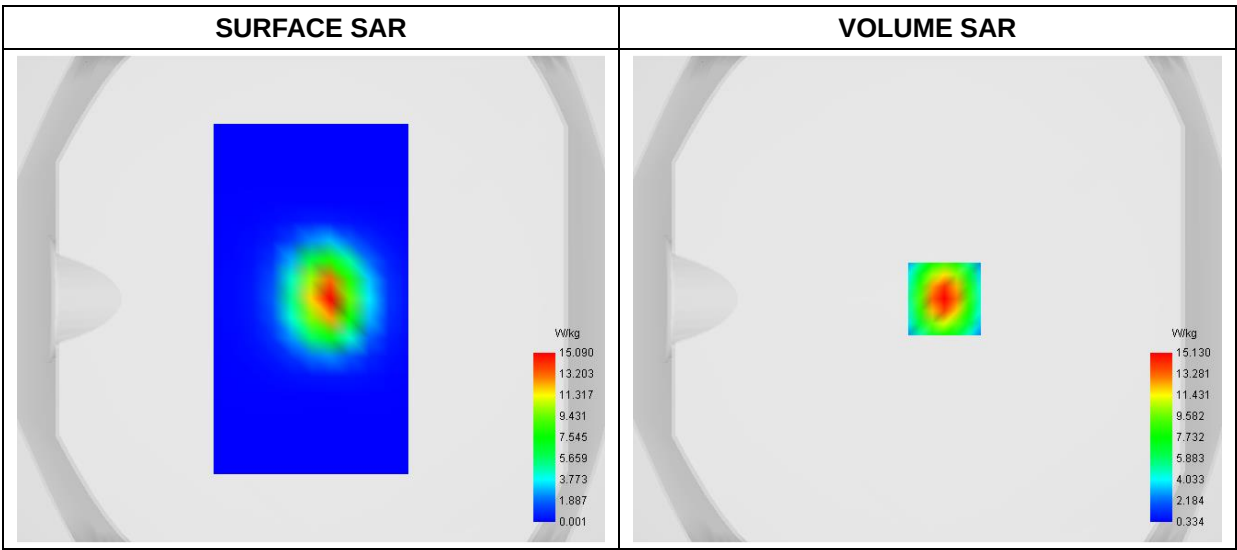
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	38.451289
Conductivity (S/m)	1.771828
Power Variation (%)	1.475200
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

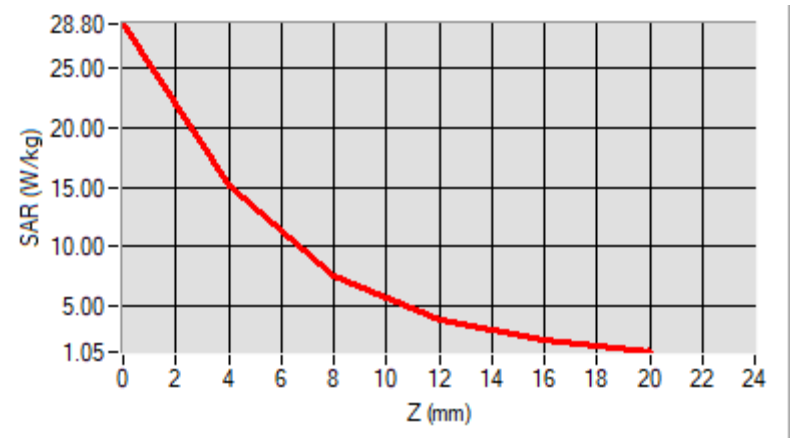


Maximum location: X=7.00, Y=0.00
D. SAR 1g & 10g

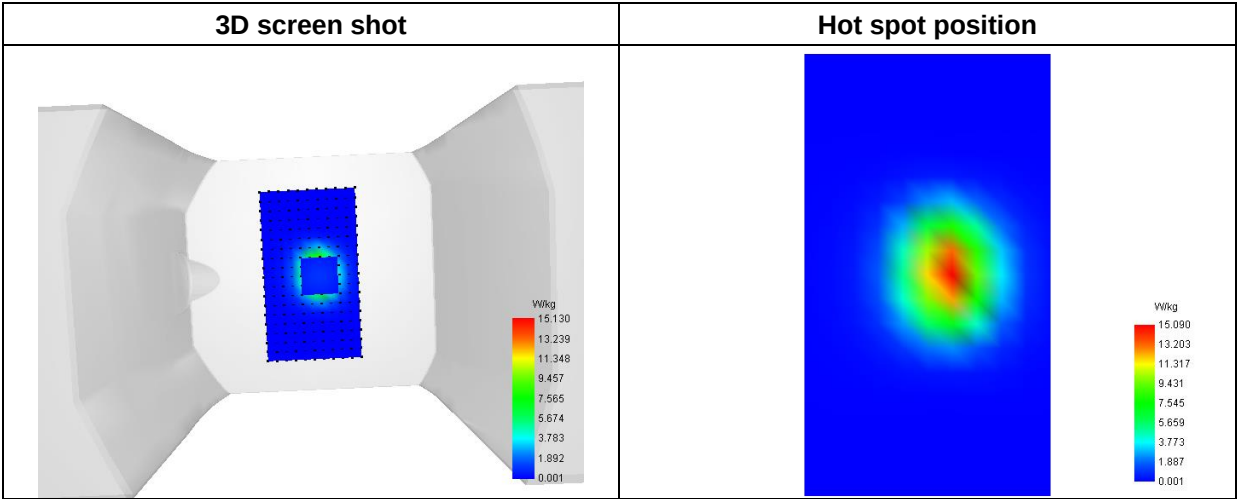
SAR 10g (W/Kg)	6.149024
SAR 1g (W/Kg)	13.746586

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	28.7959	15.1301	7.5430	3.7436	1.9810



F. 3D Image



MEASUREMENT 6

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-10-21
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2023-07-07

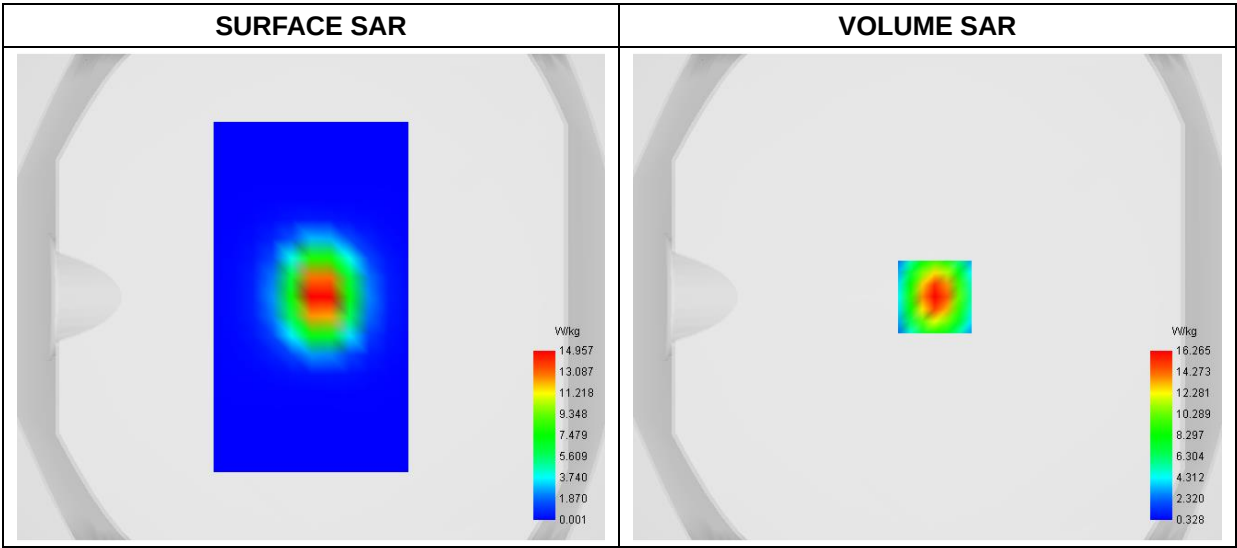
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative Permittivity (real part)	37.933714
Conductivity (S/m)	1.972958
Power Variation (%)	1.343100
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



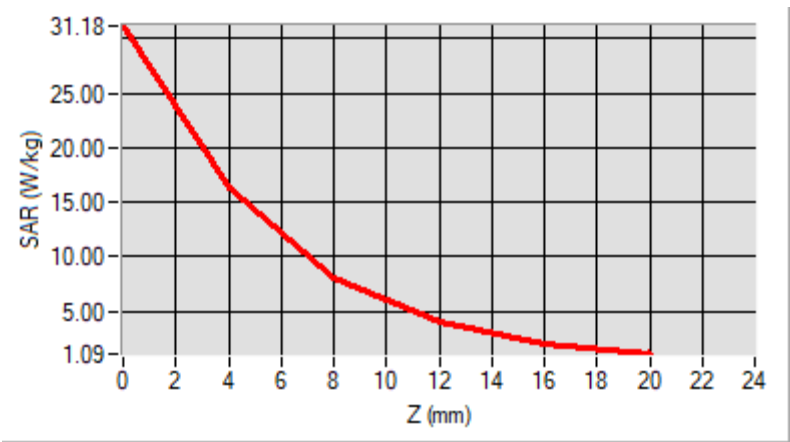
Maximum location: X=3.00, Y=0.00

D. SAR 1g & 10g

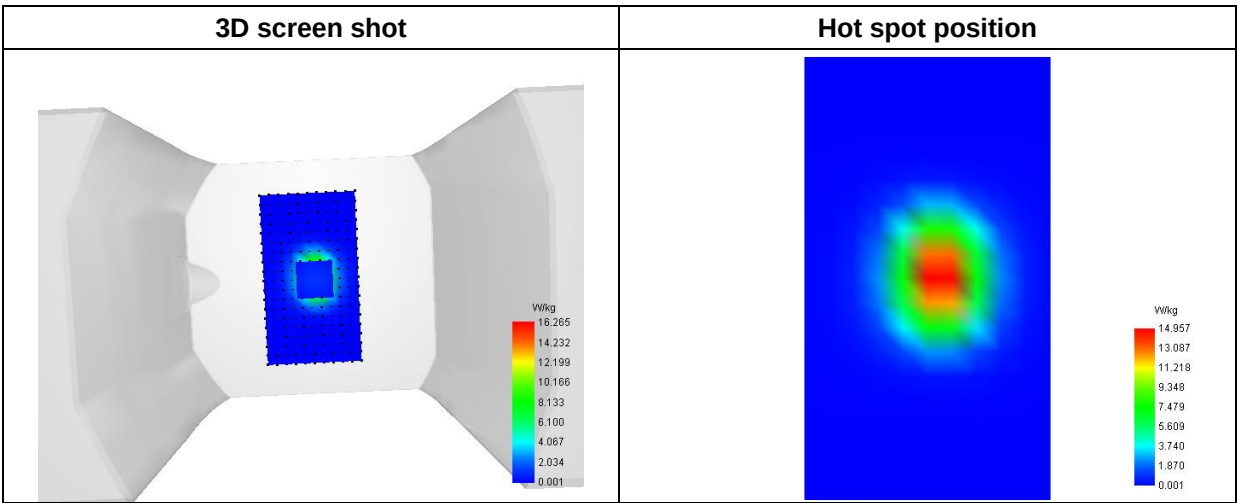
SAR 10g (W/Kg)	6.553727
SAR 1g (W/Kg)	14.814545

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	31.1802	16.2650	8.0339	3.9472	2.0732



F. 3D Image



MEASUREMENT 7

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-09-15
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2023-07-07

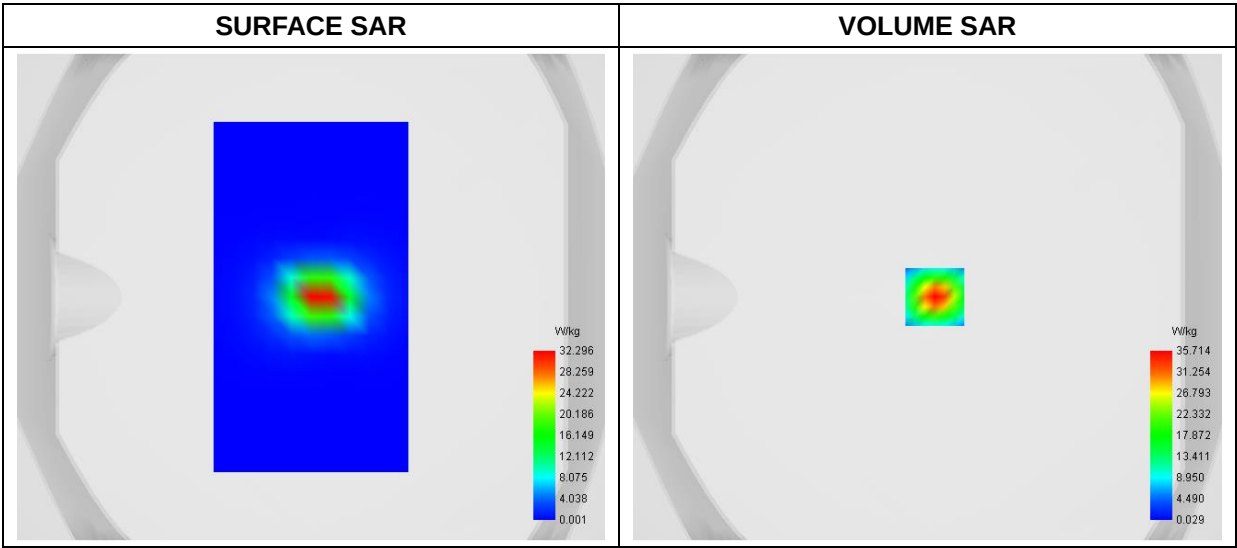
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	5200.000000
Relative Permittivity (real part)	36.181537
Conductivity (S/m)	4.622958
Power Variation (%)	1.343100
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

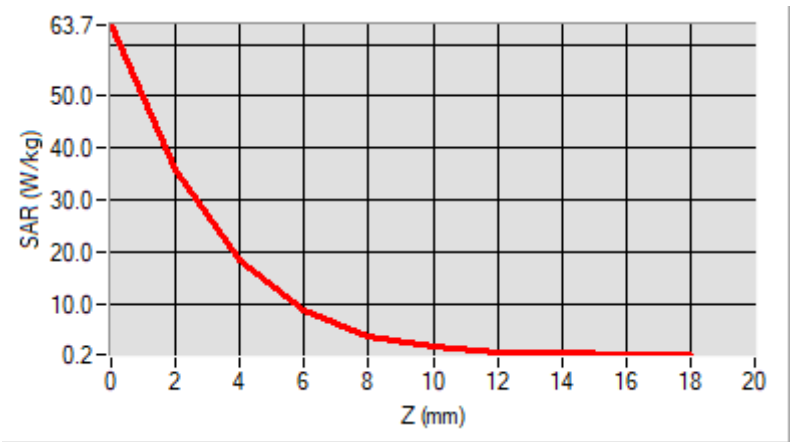


Maximum location: X=3.00, Y=0.00
D. SAR 1g & 10g

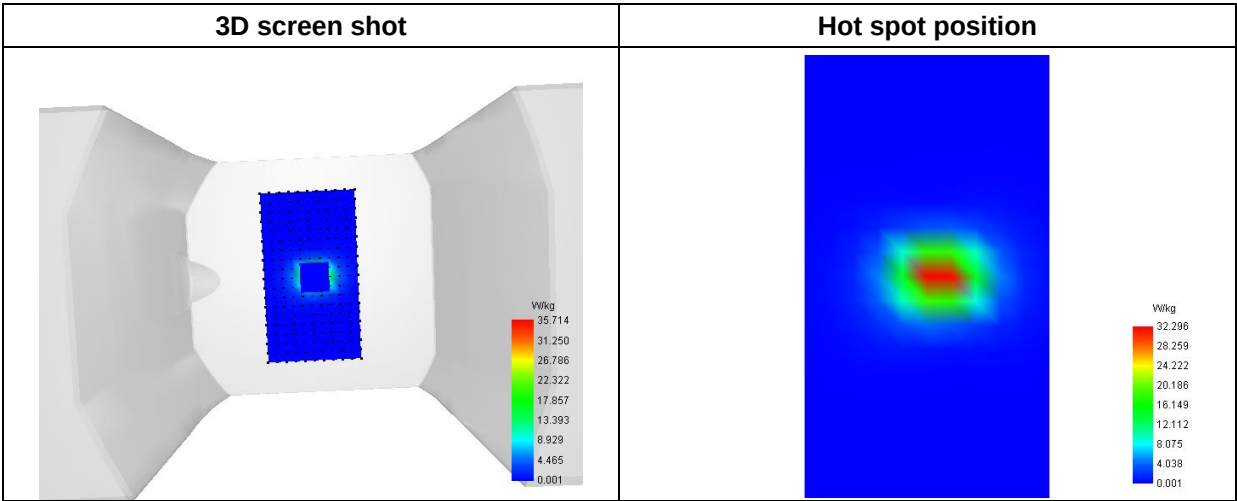
SAR 10g (W/Kg)	5.214336
SAR 1g (W/Kg)	18.566732

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	63.694	35.714	18.361	8.6368	3.8326	1.6405	0.7180	0.3557	0.2183
	0	3	9						



F. 3D Image



MEASUREMENT 8

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-09-15
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2023-07-07

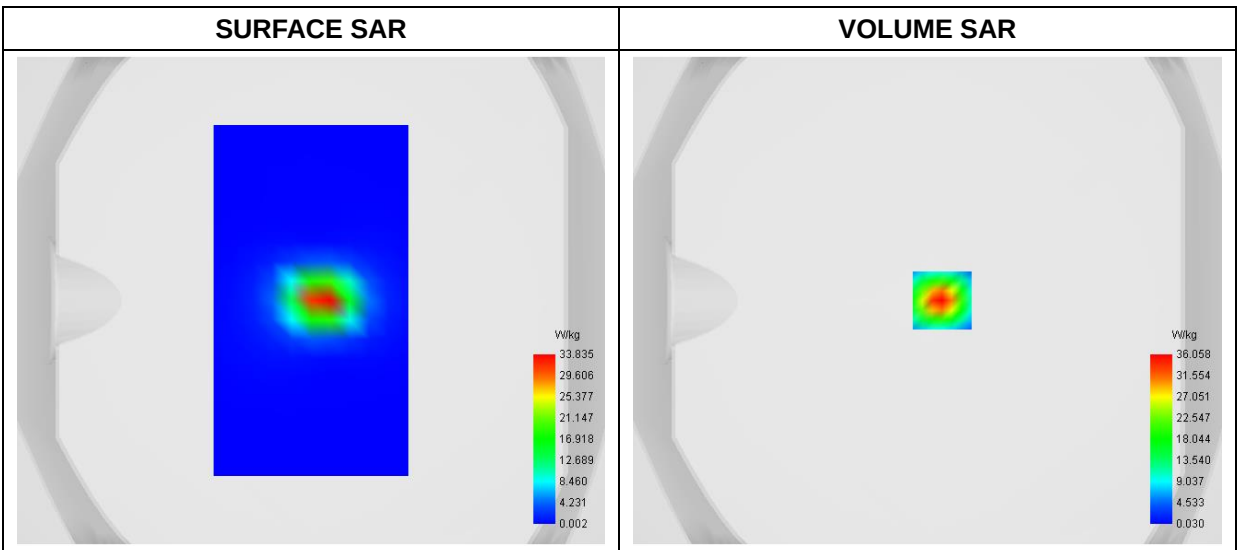
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	5400.000000
Relative Permittivity (real part)	36.511437
Conductivity (S/m)	4.792958
Power Variation (%)	1.343100
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

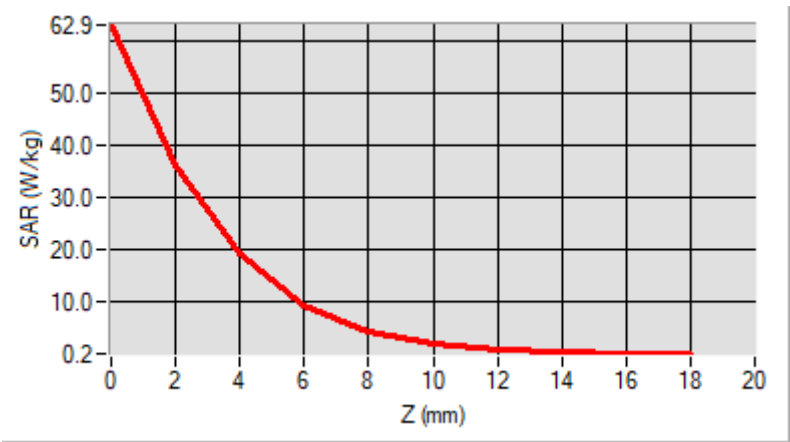


Maximum location: X=6.00, Y=0.00
D. SAR 1g & 10g

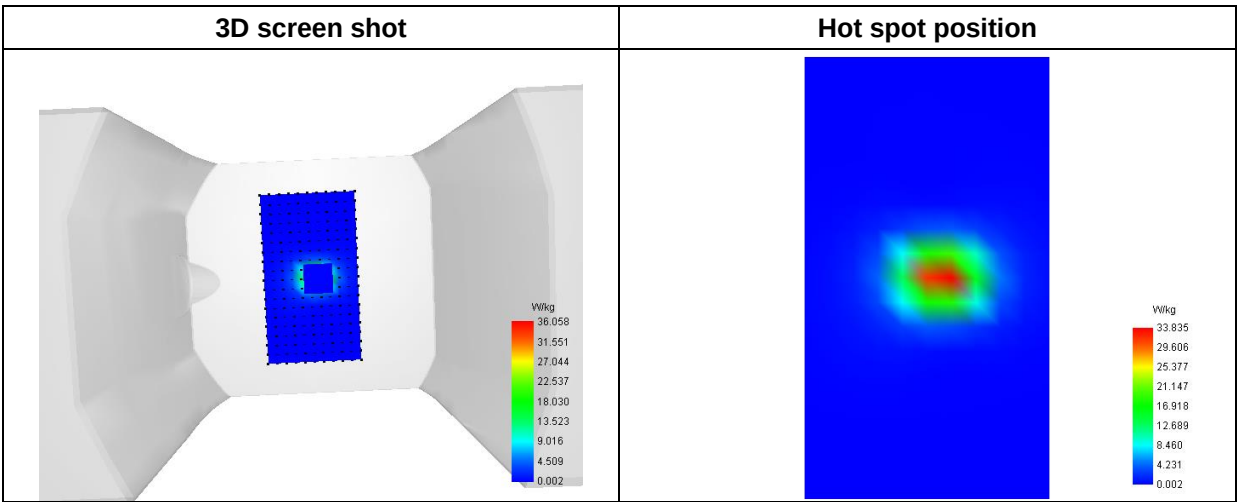
SAR 10g (W/Kg)	5.463589
SAR 1g (W/Kg)	18.979345

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	62.9456	36.0579	19.1617	9.4529	4.4747	2.0809	0.9976	0.5283	0.3243



F. 3D Image



MEASUREMENT 9

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-09-16
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2023-07-07

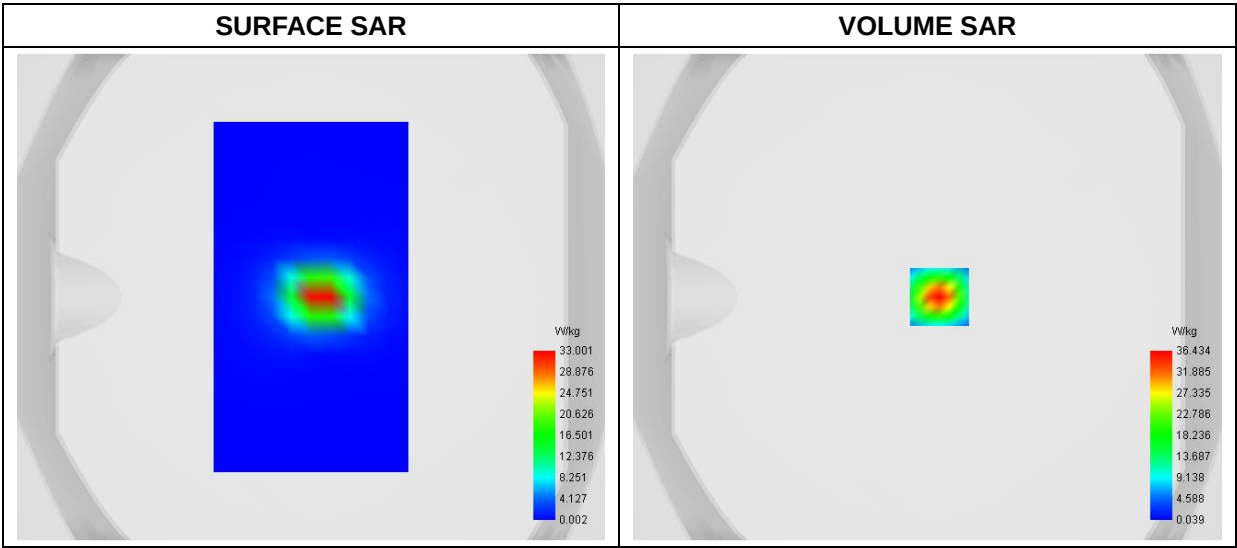
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	5600.000000
Relative Permittivity (real part)	35.461471
Conductivity (S/m)	5.012958
Power Variation (%)	-1.174310
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

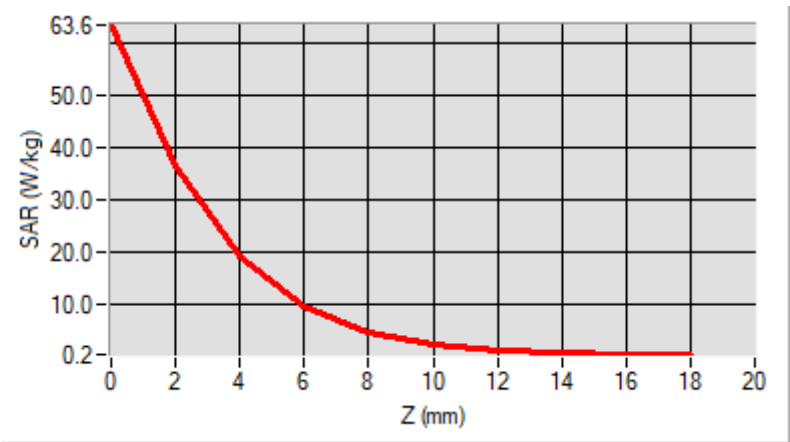


Maximum location: X=5.00, Y=0.00
D. SAR 1g & 10g

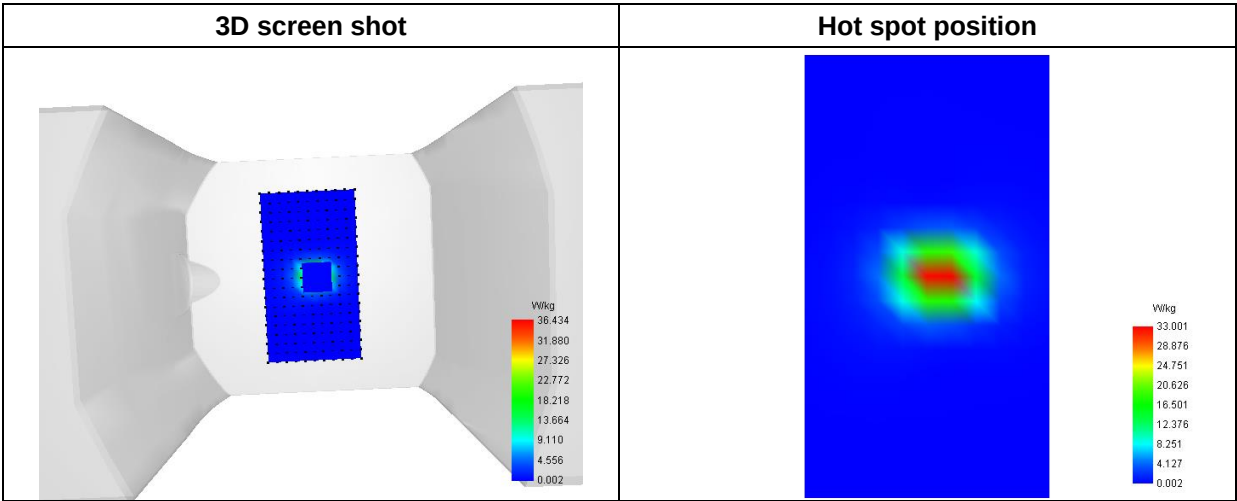
SAR 10g (W/Kg)	5.462480
SAR 1g (W/Kg)	19.007904

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	63.633	36.433	19.347	9.5356	4.5091	2.0948	1.0039	0.5323	0.3279
	5	9	5						



F. 3D Image



MEASUREMENT 10

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-09-16
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2023-07-07

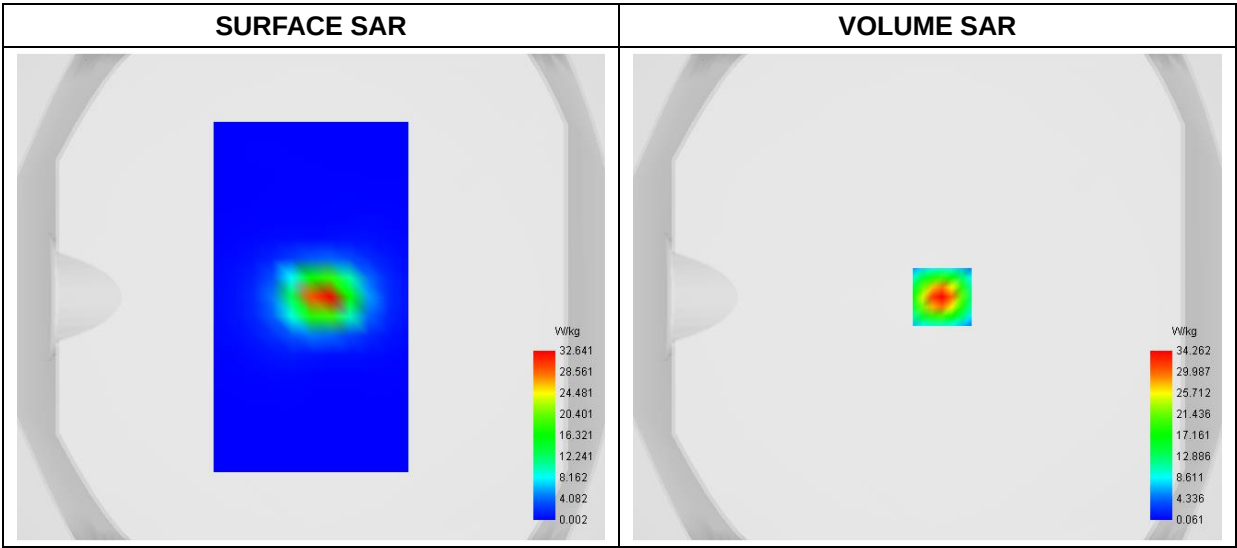
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	5800.000000
Relative Permittivity (real part)	34.914737
Conductivity (S/m)	5.182958
Power Variation (%)	1.3478110
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

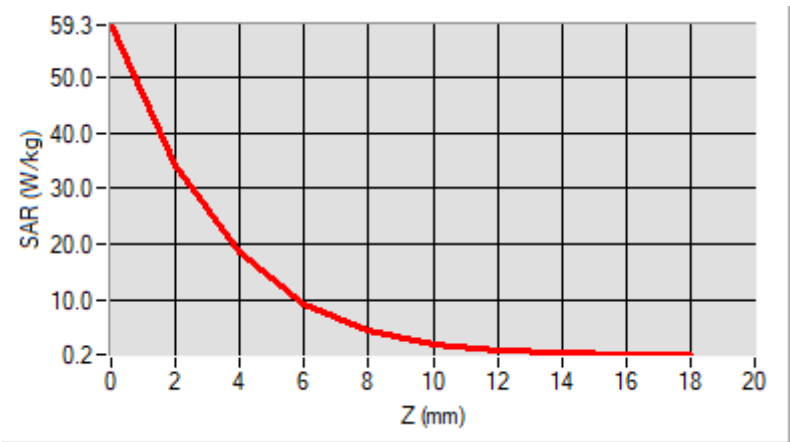


Maximum location: X=6.00, Y=0.00
D. SAR 1g & 10g

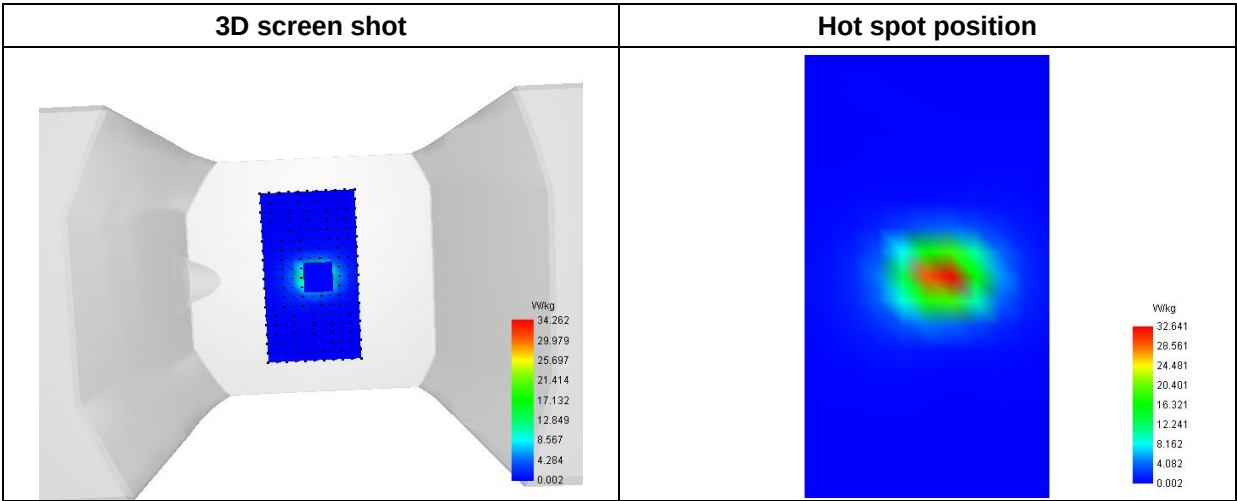
SAR 10g (W/Kg)	5.385932
SAR 1g (W/Kg)	18.087402

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	59.320	34.261	18.434	9.2545	4.4822	2.1439	1.0586	0.5728	0.3524
	3	7	7						



F. 3D Image



Annex B. Plots of SAR Measurement

MEASUREMENT 1

Type: Phone measurement (Complete)
Date of measurement: 2023-09-11
Measurement duration: 11 minutes 48 seconds

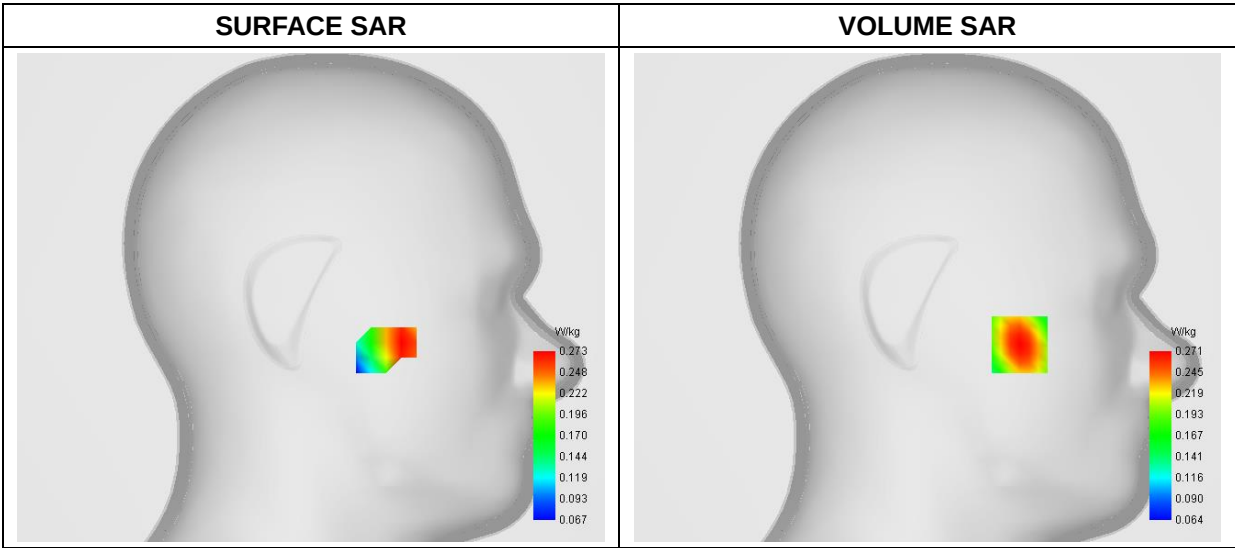
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative Permittivity (real part)	40.752245
Conductivity (S/m)	0.881245
Power Variation (%)	1.074536
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

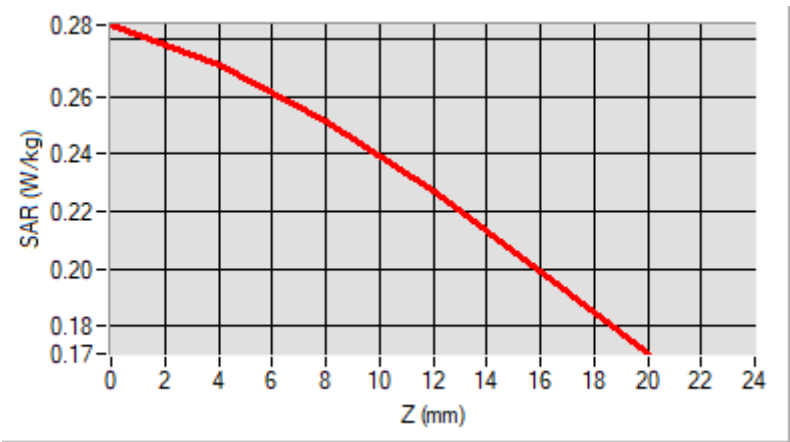


Maximum location: X=-49.00, Y=-25.00
D. SAR 1g & 10g

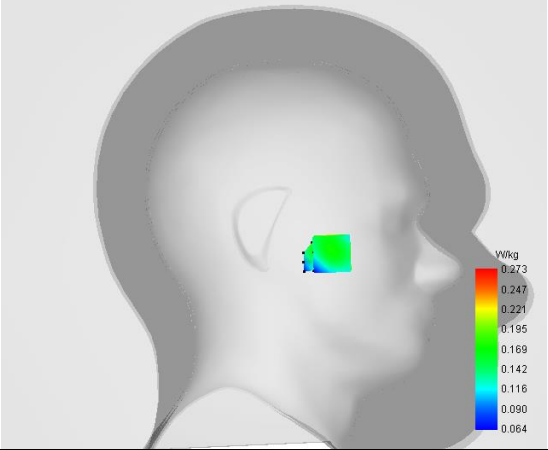
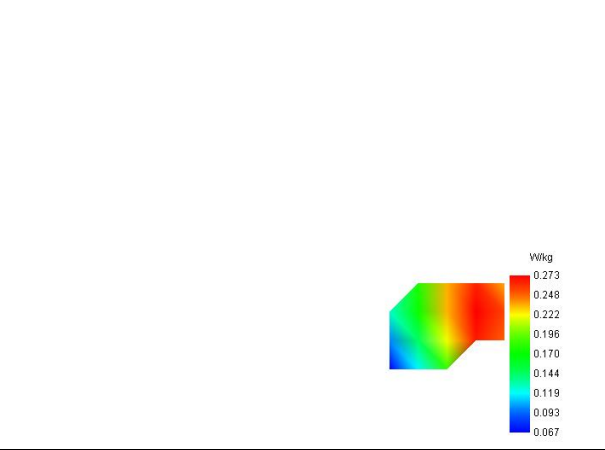
SAR 10g (W/Kg)	0.210543
SAR 1g (W/Kg)	0.259825

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2849	0.2710	0.2516	0.2270	0.1989



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 2

Type: Phone measurement (Complete)
Date of measurement: 2023-09-11
Measurement duration: 11 minutes 48 seconds

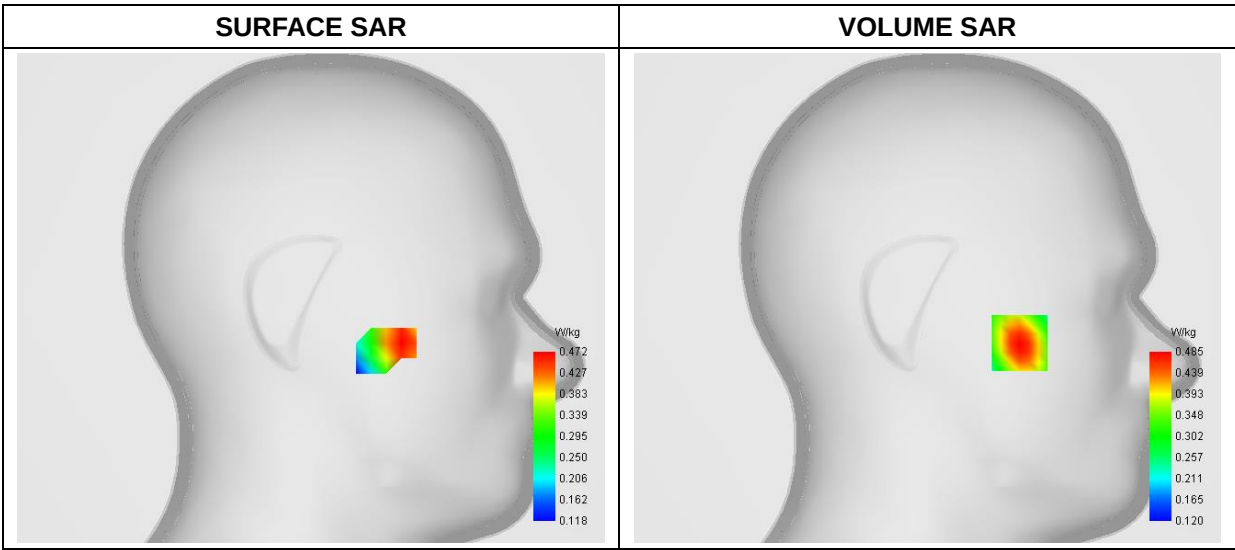
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	GPRS850_2TX
Channels	High
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative Permittivity (real part)	40.752245
Conductivity (S/m)	0.881245
Power Variation (%)	-0.155400
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

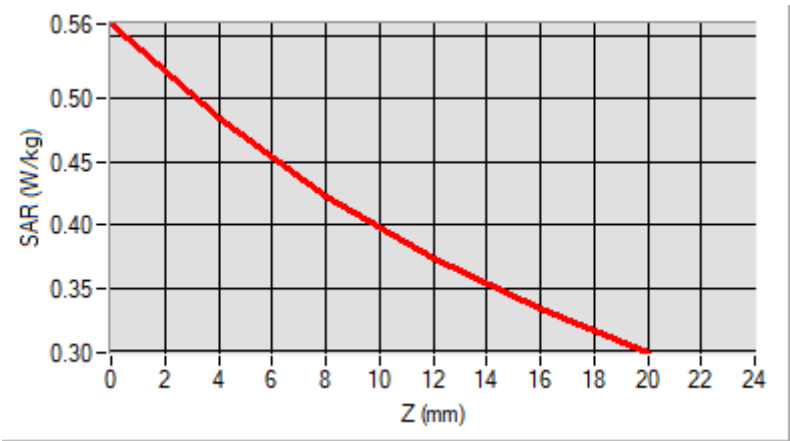


Maximum location: X=-49.00, Y=-24.00
D. SAR 1g & 10g

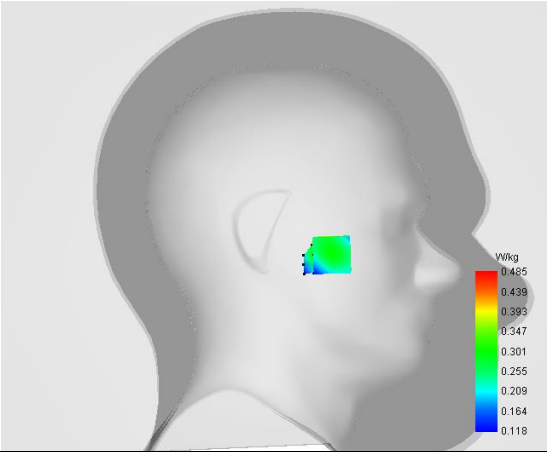
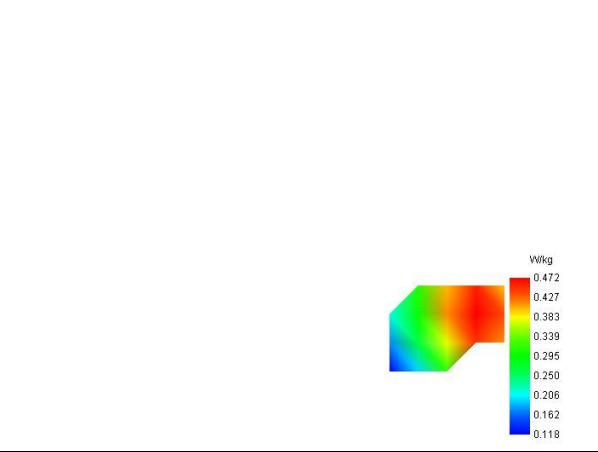
SAR 10g (W/Kg)	0.364536
SAR 1g (W/Kg)	0.462410

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5595	0.4846	0.4229	0.3734	0.3335



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 3

Type: Phone measurement (Complete)
Date of measurement: 2023-09-12
Measurement duration: 11 minutes 48 seconds

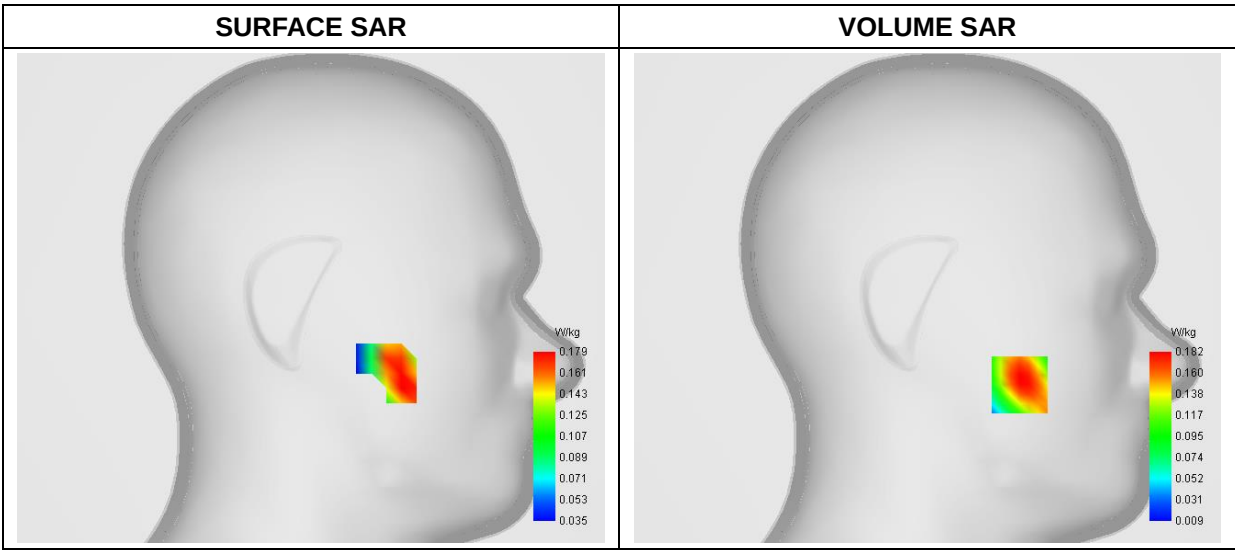
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	39.434528
Conductivity (S/m)	1.382678
Power Variation (%)	1.053614
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

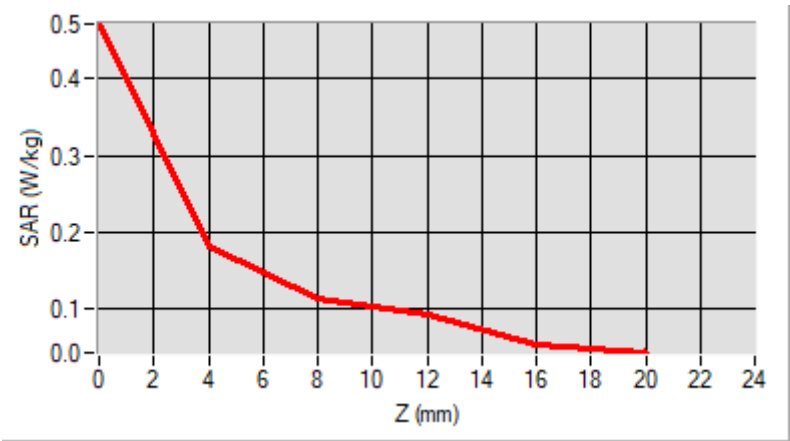


Maximum location: X=-49.00, Y=-46.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.103874
SAR 1g (W/Kg)	0.170894

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.4713	0.1816	0.1146	0.0933	0.0534



F. 3D Image

3D screen shot	Hot spot position
A 3D rendering of a human head model in profile, facing right. A small, multi-colored rectangular hot spot is visible on the side of the head, near the ear. To the right of the head is a vertical color scale bar with values ranging from 0.009 (blue) to 0.162 (red) W/kg.	A detailed view of the hot spot position on the side of the head. It shows a rectangular area with a color gradient from blue to red. To the right is a vertical color scale bar with values ranging from 0.035 (blue) to 0.179 (red) W/kg.

MEASUREMENT 4

Type: Phone measurement (Complete)
Date of measurement: 2023-09-12
Measurement duration: 11 minutes 48 seconds

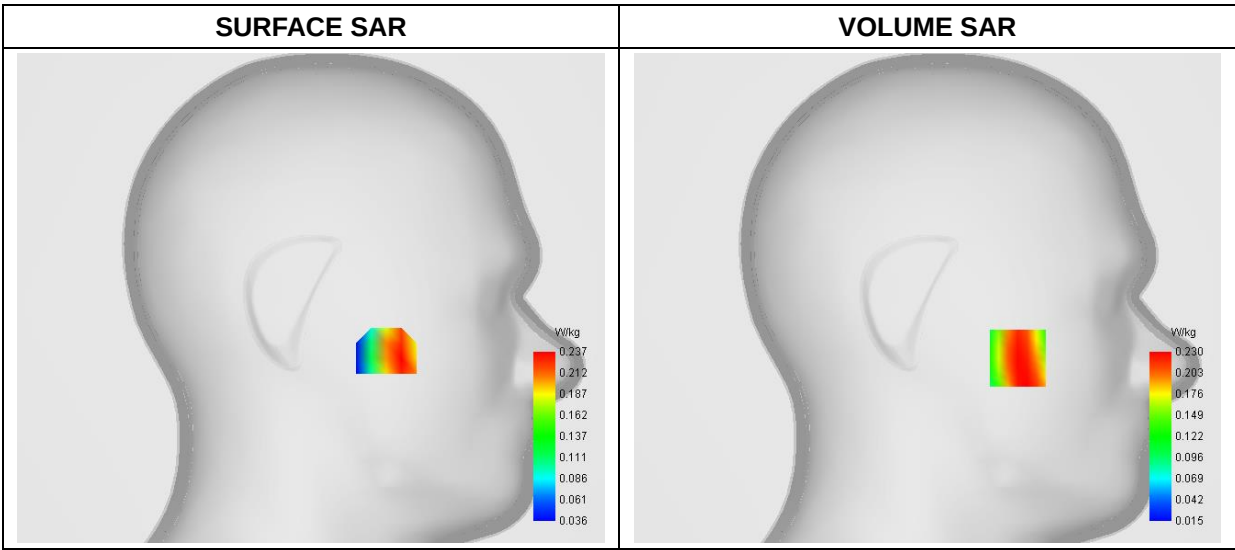
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	GPRS1900_2TX
Channels	Low
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	39.434528
Conductivity (S/m)	1.382678
Power Variation (%)	0.012894
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

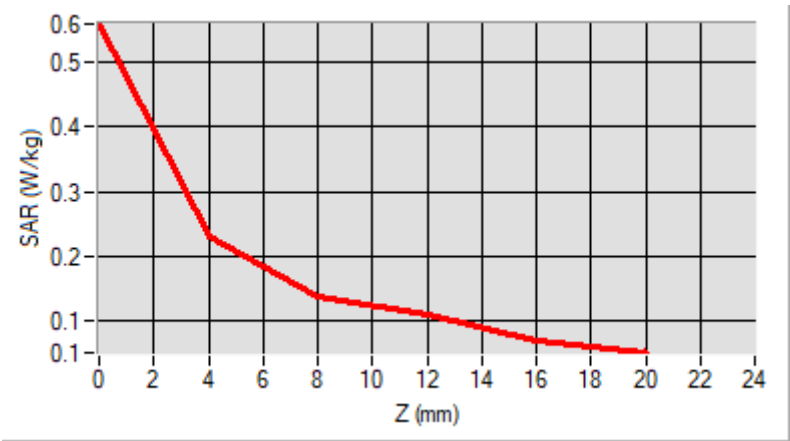


Maximum location: X=-48.00, Y=-32.00
D. SAR 1g & 10g

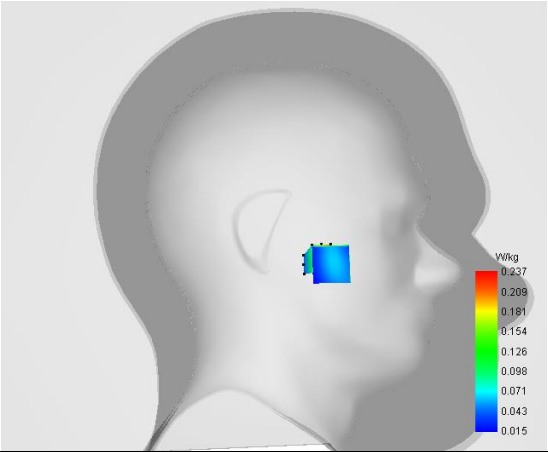
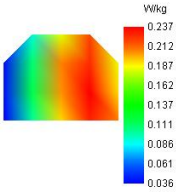
SAR 10g (W/Kg)	0.138223
SAR 1g (W/Kg)	0.219101

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5588	0.2297	0.1394	0.1109	0.0713



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 5

Type: Phone measurement (Complete)
Date of measurement: 2023-09-12
Measurement duration: 12 minutes 3 seconds

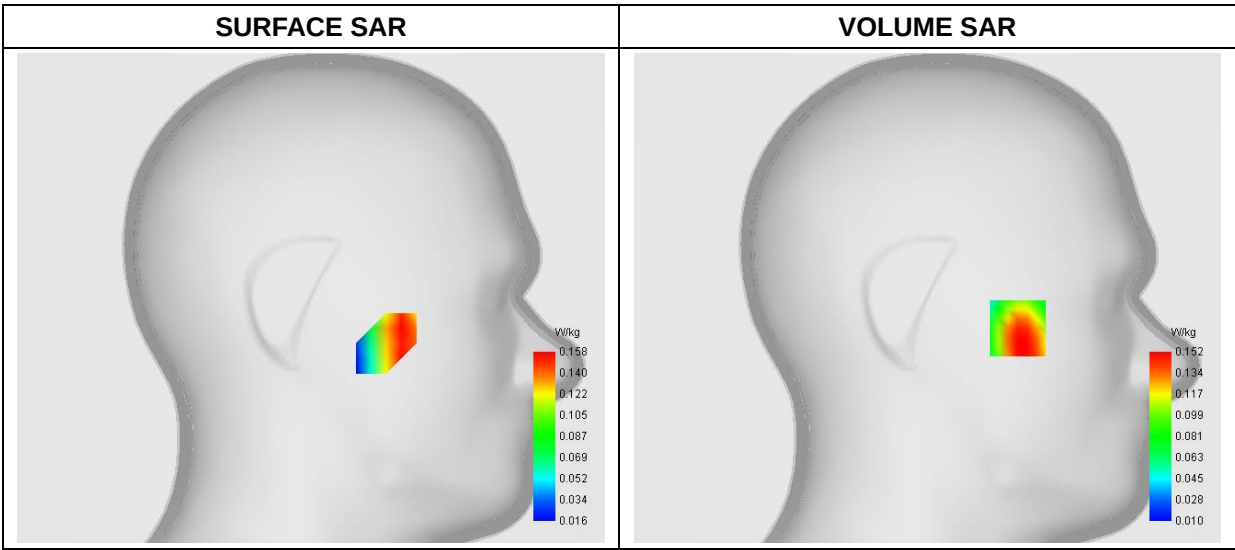
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA1900_RMC
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1907.600000
Relative Permittivity (real part)	39.060124
Conductivity (S/m)	1.393607
Power Variation (%)	0.824700
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

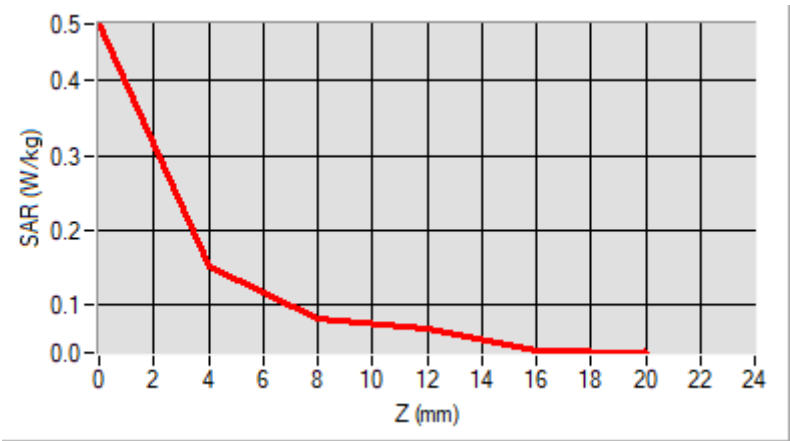


Maximum location: X=-48.00, Y=-16.00
D. SAR 1g & 10g

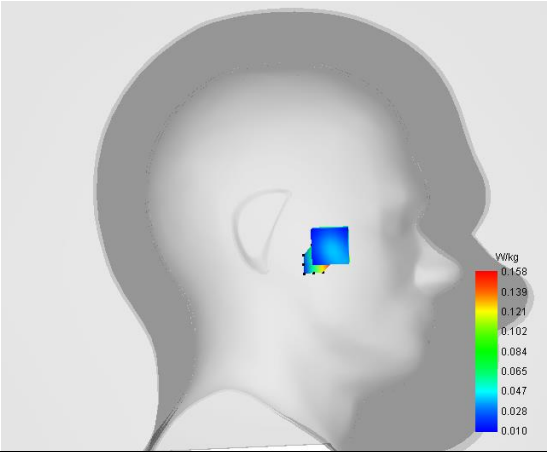
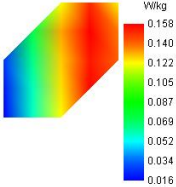
SAR 10g (W/Kg)	0.088732
SAR 1g (W/Kg)	0.146942

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.4752	0.1521	0.0816	0.0698	0.0408



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 6

Type: Phone measurement (Complete)
Date of measurement: 2023-09-11
Measurement duration: 12 minutes 3 seconds

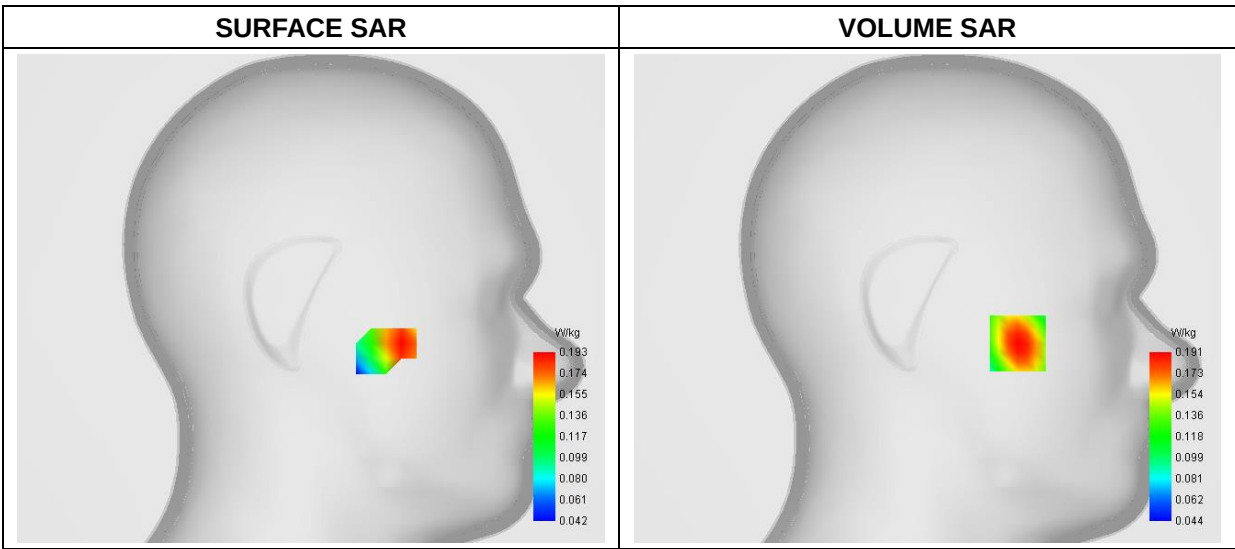
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA850_RMC
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	846.600000
Relative Permittivity (real part)	40.753245
Conductivity (S/m)	0.881245
Power Variation (%)	-1.364700
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

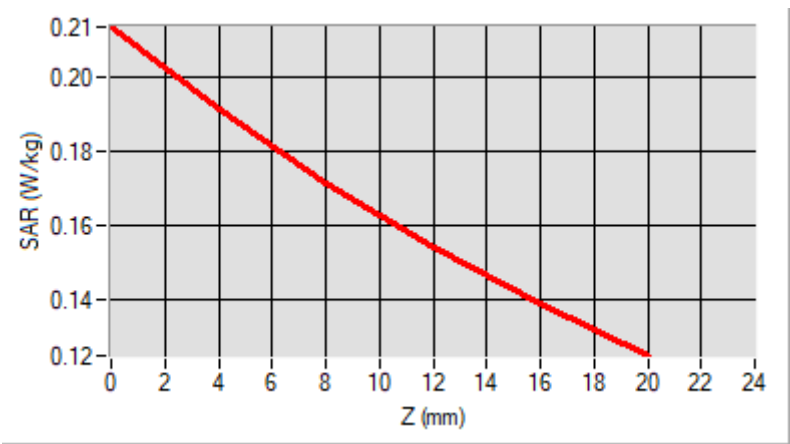


Maximum location: X=-48.00, Y=-24.00
D. SAR 1g & 10g

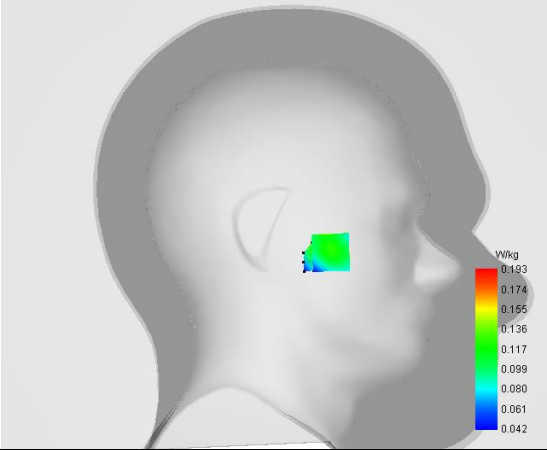
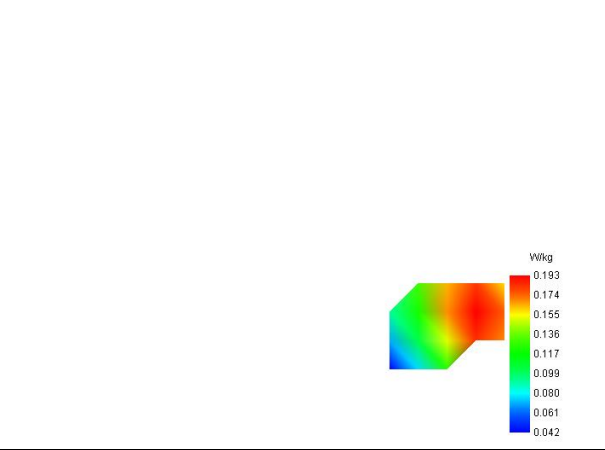
SAR 10g (W/Kg)	0.147330
SAR 1g (W/Kg)	0.182875

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2132	0.1910	0.1713	0.1540	0.1387



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 7

Type: Phone measurement (Complete)
Date of measurement: 2023-09-12
Measurement duration: 12 minutes 3 seconds

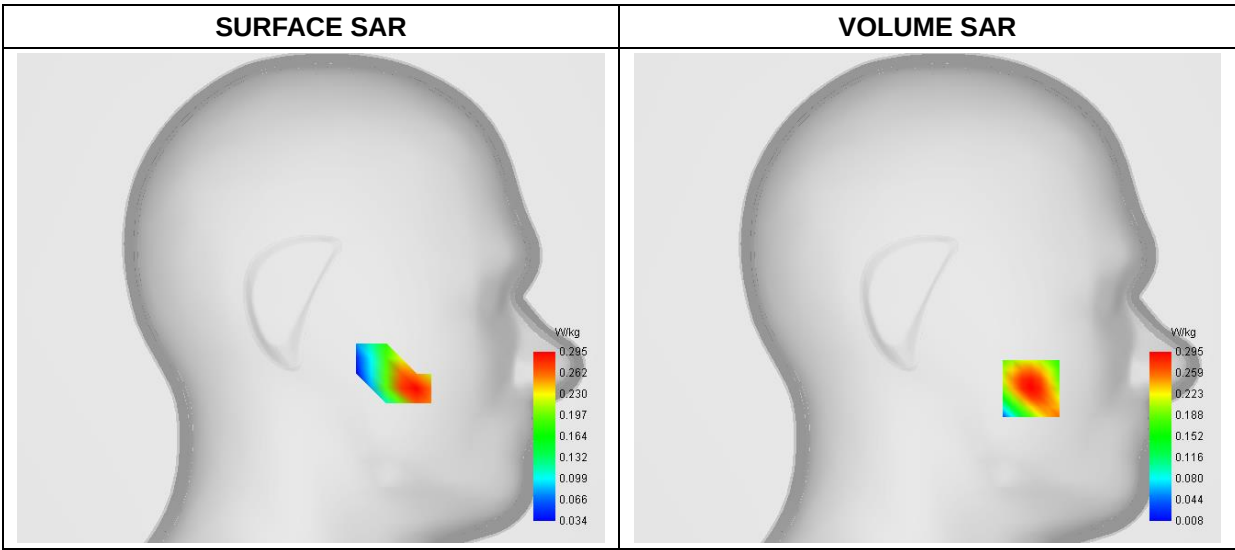
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 2
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1860.000000
Relative Permittivity (real part)	39.431612
Conductivity (S/m)	1.382369
Power Variation (%)	-1.344700
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

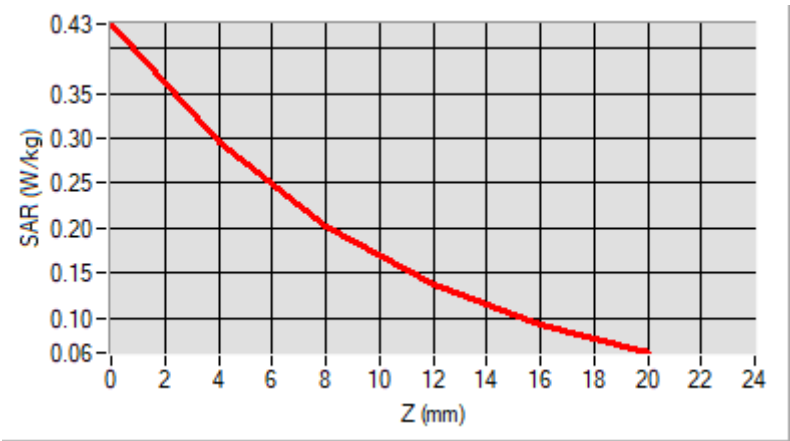


Maximum location: X=-55.00, Y=-48.00
D. SAR 1g & 10g

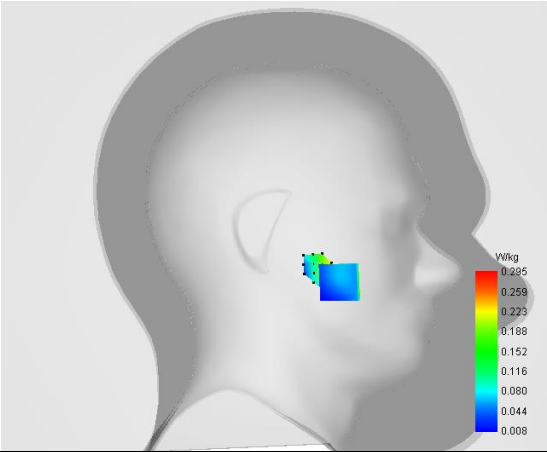
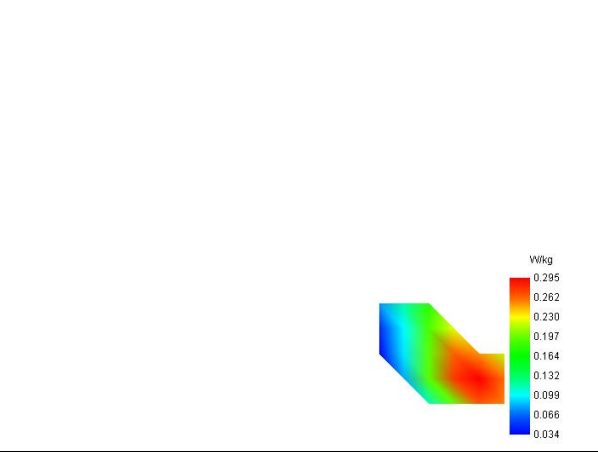
SAR 10g (W/Kg)	0.164544
SAR 1g (W/Kg)	0.275848

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.4272	0.2954	0.2018	0.1374	0.0934



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 8

Type: Phone measurement (Complete)
Date of measurement: 2023-09-12
Measurement duration: 12 minutes 3 seconds

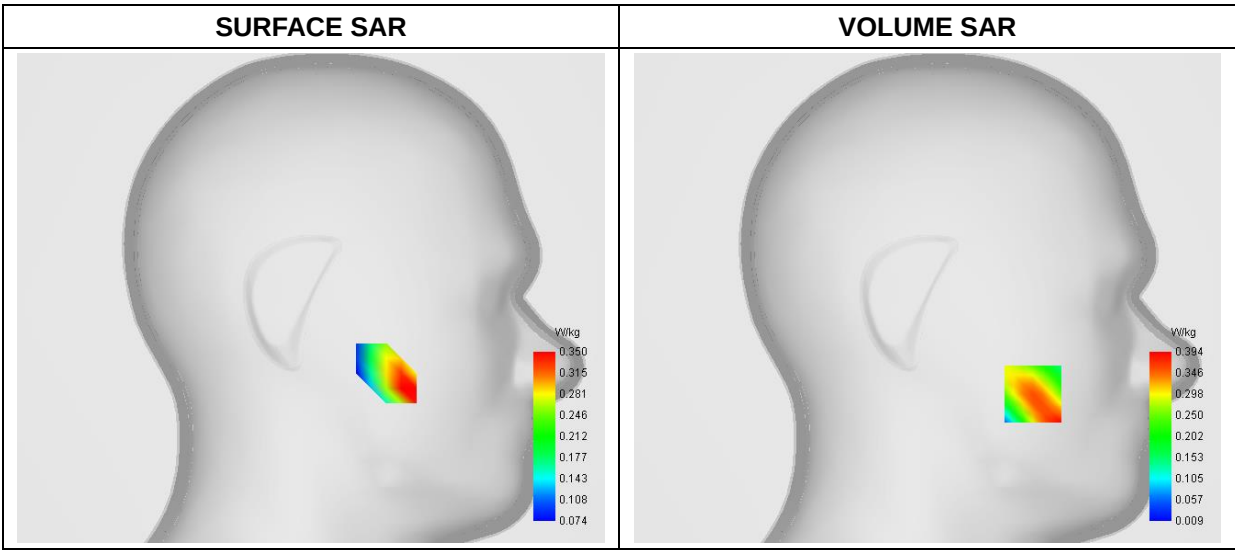
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 4
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1720.000000
Relative Permittivity (real part)	39.433275
Conductivity (S/m)	1.382198
Power Variation (%)	1.083800
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

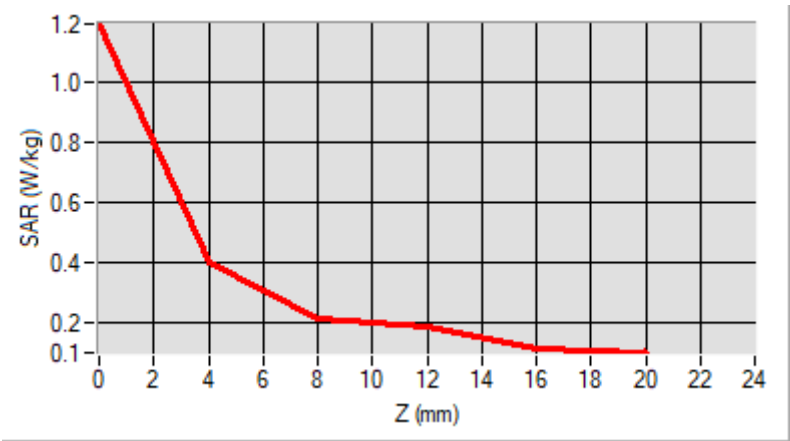


Maximum location: X=-56.00, Y=-51.00
D. SAR 1g & 10g

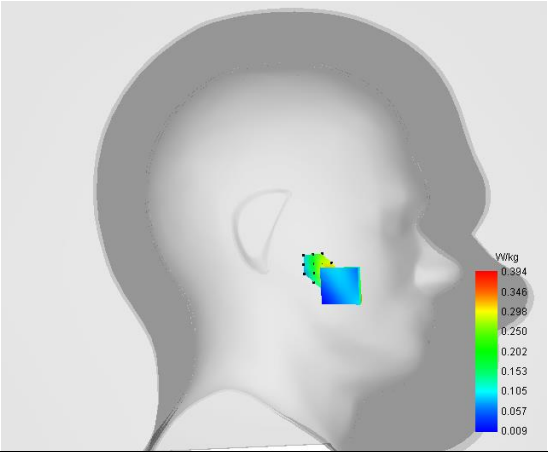
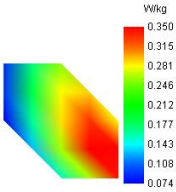
SAR 10g (W/Kg)	0.209643
SAR 1g (W/Kg)	0.339512

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.1927	0.3941	0.2133	0.1820	0.1122



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 9

Type: Phone measurement (Complete)
Date of measurement: 2023-09-11
Measurement duration: 12 minutes 3 seconds

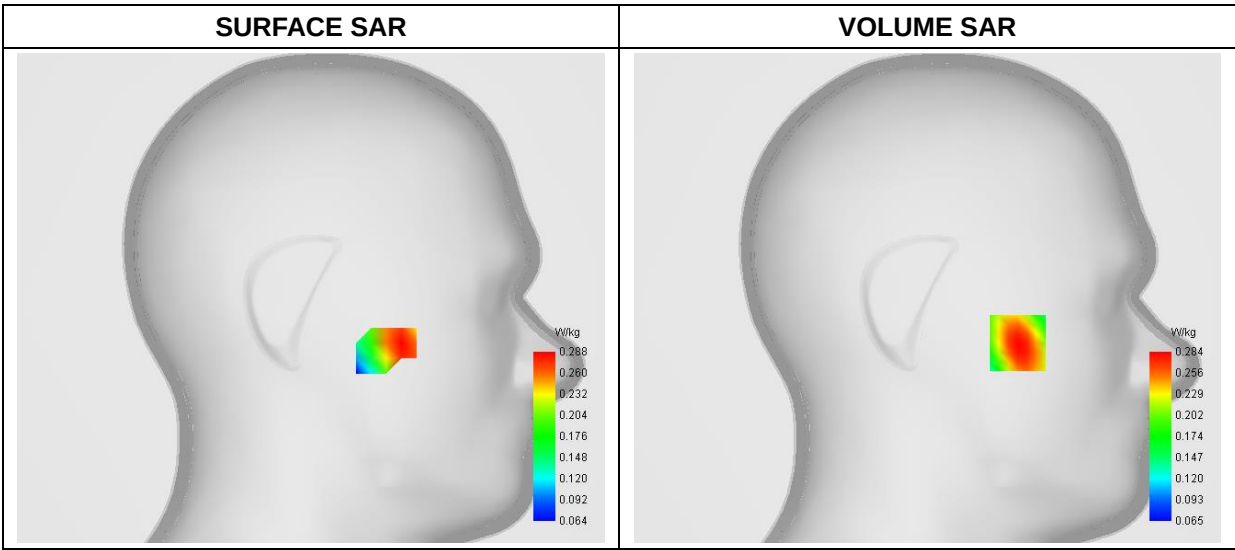
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 5
Channels	QPSK, 10MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	829.000000
Relative Permittivity (real part)	40.752451
Conductivity (S/m)	0.881245
Power Variation (%)	-0.876500
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

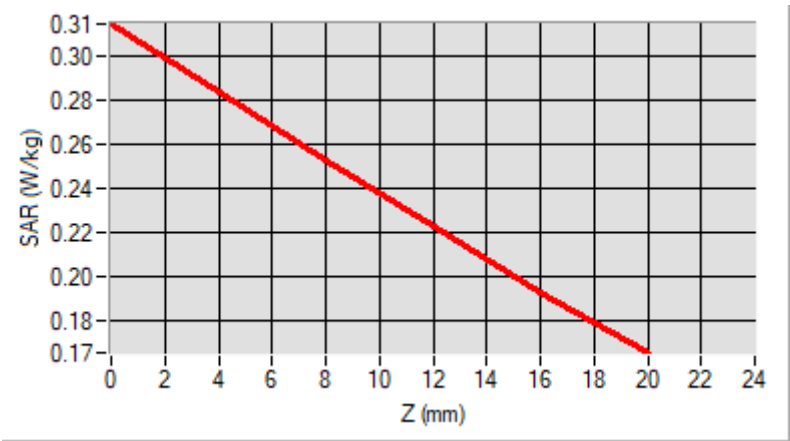


Maximum location: X=-48.00, Y=-24.00
D. SAR 1g & 10g

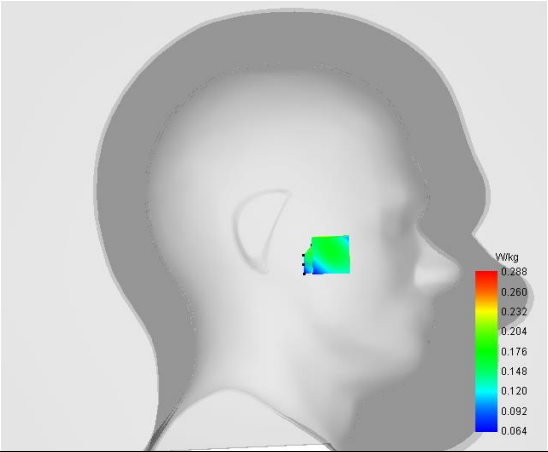
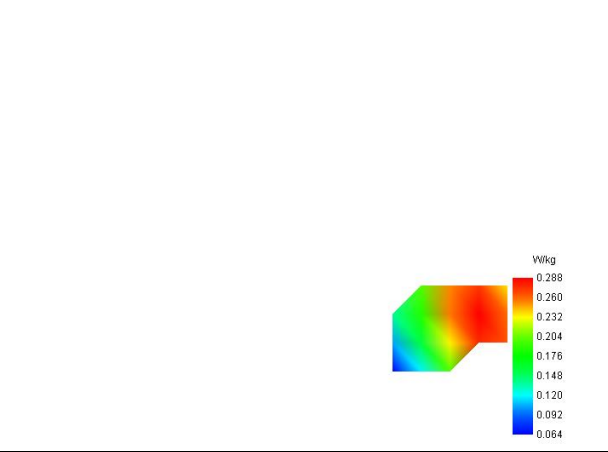
SAR 10g (W/Kg)	0.214909
SAR 1g (W/Kg)	0.271967

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.3147	0.2836	0.2528	0.2226	0.1933



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 10

Type: Phone measurement (Complete)
Date of measurement: 2023-10-21
Measurement duration: 12 minutes 3 seconds

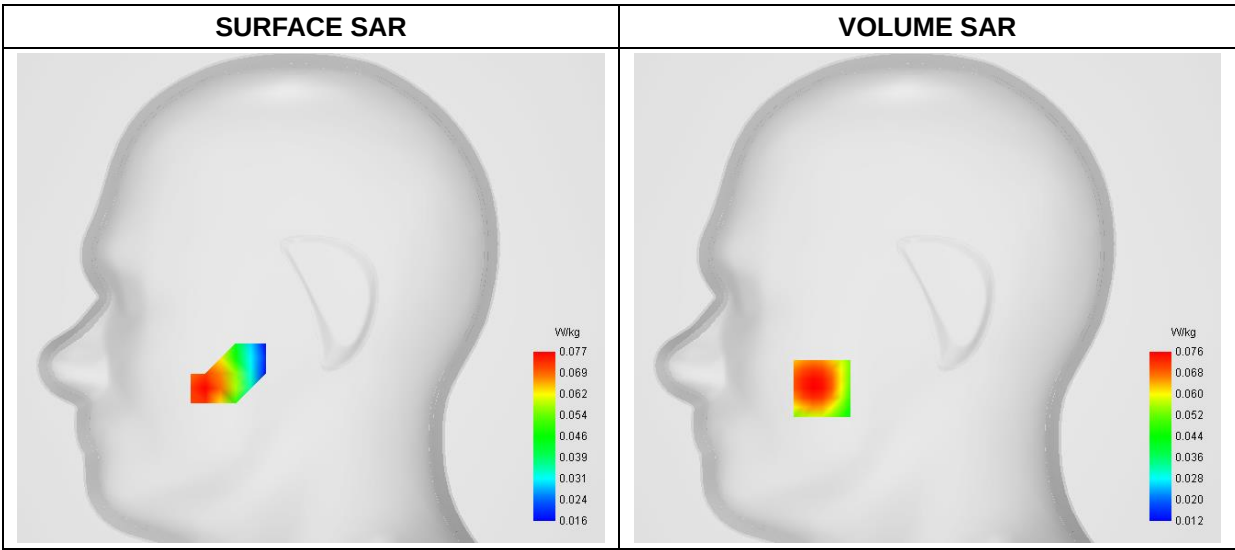
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 7
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2510.000000
Relative Permittivity (real part)	37.933302
Conductivity (S/m)	1.973822
Power Variation (%)	-0.542830
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

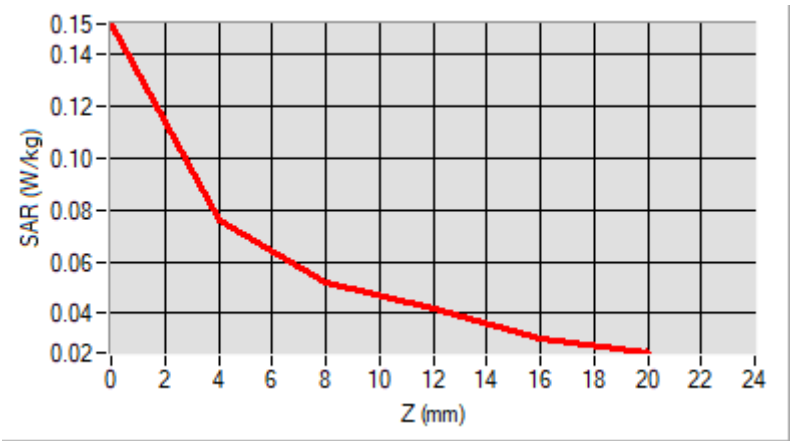


Maximum location: X=-56.00, Y=-48.00
D. SAR 1g & 10g

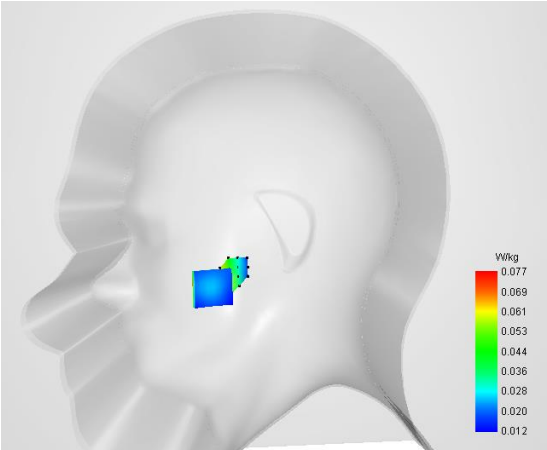
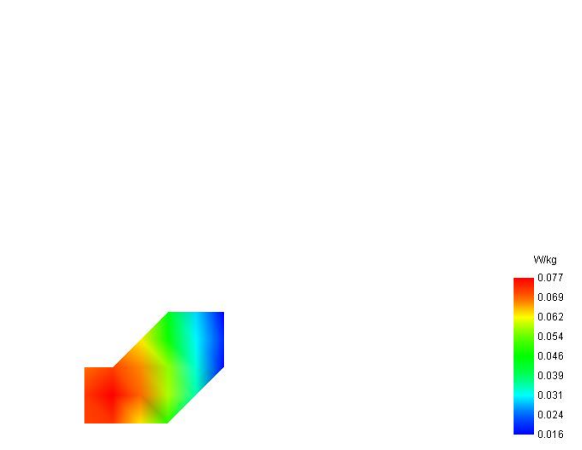
SAR 10g (W/Kg)	0.048188
SAR 1g (W/Kg)	0.072507

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1520	0.0757	0.0517	0.0416	0.0301



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 11

Type: Phone measurement (Complete)
Date of measurement: 2023-10-21
Measurement duration: 12 minutes 3 seconds

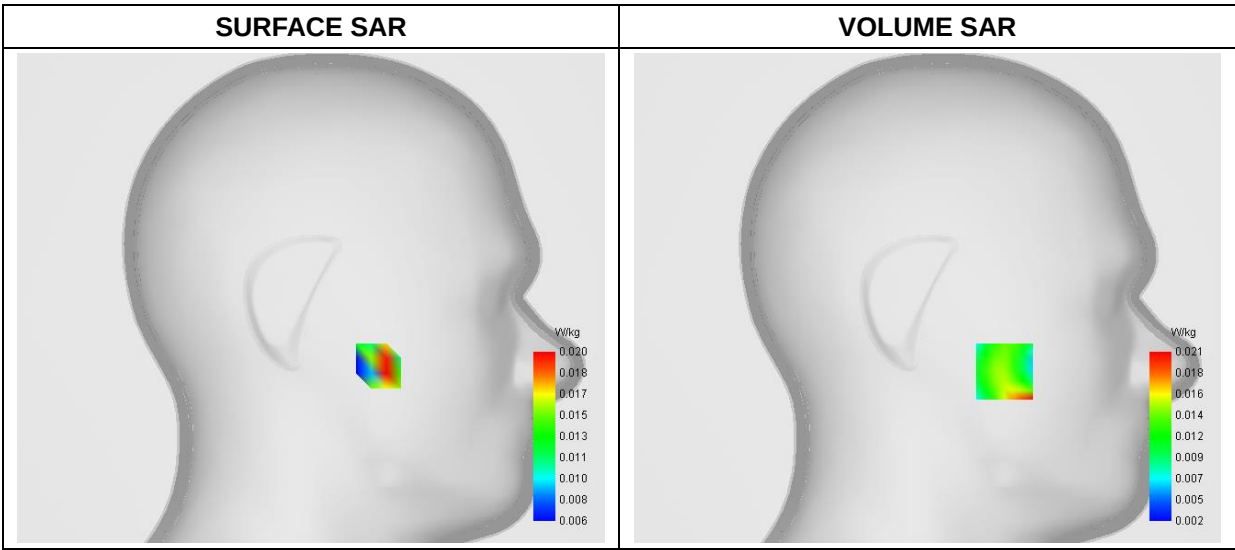
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 38
Channels	QPSK, 20MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2595.000000
Relative Permittivity (real part)	37.932666
Conductivity (S/m)	1.973182
Power Variation (%)	-1.714700
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

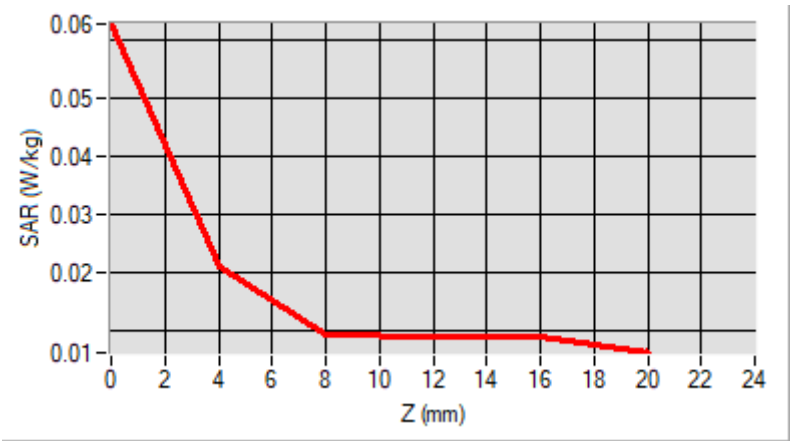


Maximum location: X=-41.00, Y=-39.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.009975
SAR 1g (W/Kg)	0.015053

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0629	0.0208	0.0093	0.0089	0.0088



F. 3D Image

3D screen shot	Hot spot position

MEASUREMENT 12

Type: Phone measurement (Complete)
Date of measurement: 2023-09-13
Measurement duration: 12 minutes 3 seconds

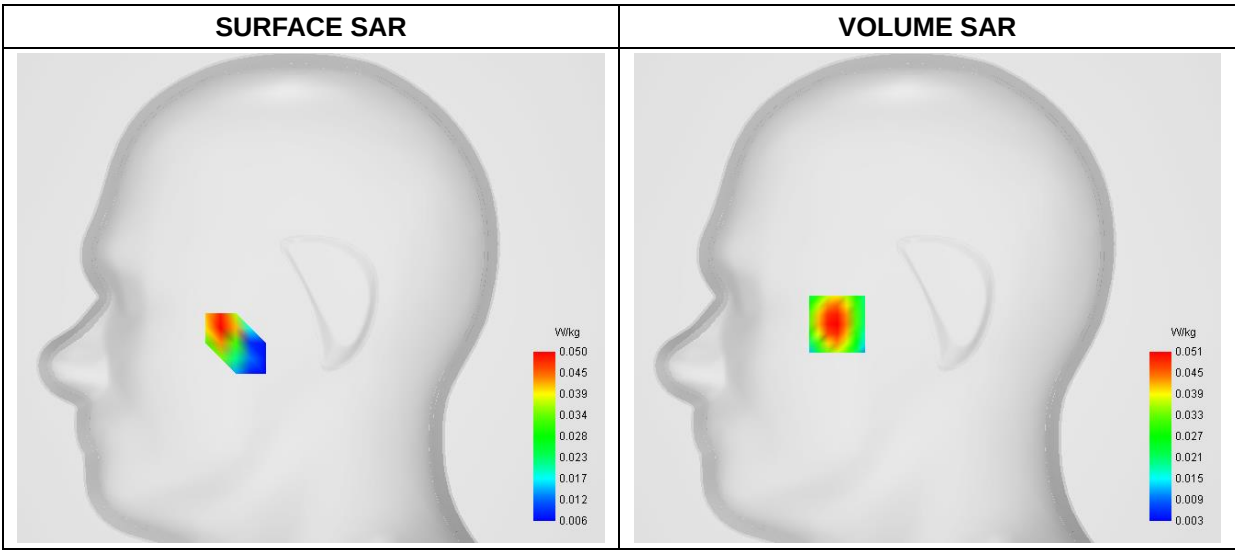
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 40(2305-2315MHz)
Channels	QPSK, 10MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2310.000000
Relative Permittivity (real part)	39.173668
Conductivity (S/m)	1.633696
Power Variation (%)	-1.053800
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

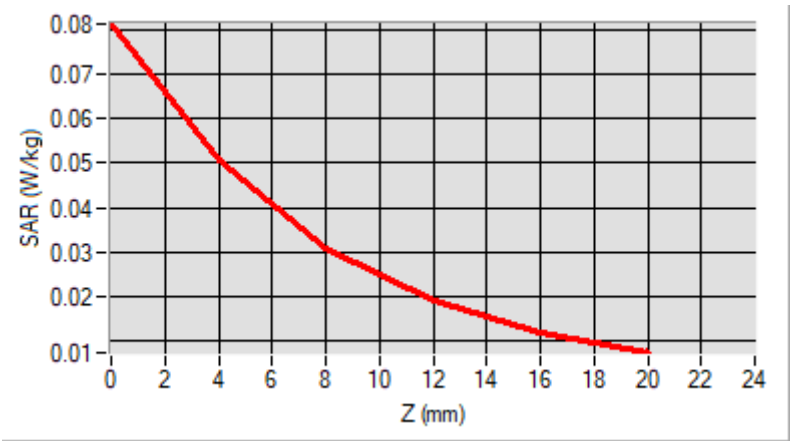


Maximum location: X=-48.00, Y=-14.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.025530
SAR 1g (W/Kg)	0.047467

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0813	0.0506	0.0310	0.0191	0.0121



F. 3D Image

3D screen shot	Hot spot position
A 3D model of a human head in profile, facing left. A small, irregularly shaped area on the side of the head is highlighted in blue, indicating the hot spot. A color scale legend is shown to the right of the model, ranging from 0.003 (blue) to 0.051 (red).	A 3D model of a human head in profile, facing left. A small, irregularly shaped area on the side of the head is highlighted in red, indicating the hot spot. A color scale legend is shown to the right of the model, ranging from 0.006 (blue) to 0.050 (red).

MEASUREMENT 13

Type: Phone measurement (Complete)
Date of measurement: 2023-09-13
Measurement duration: 12 minutes 3 seconds

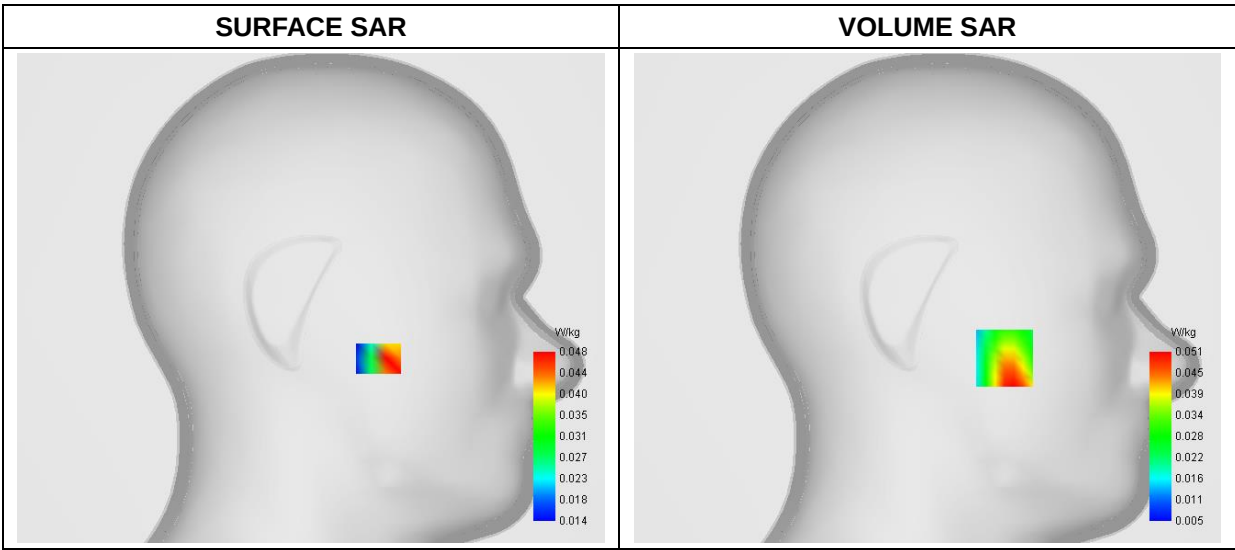
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 40(2350-2360MHz)
Channels	QPSK, 10MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2355.000000
Relative Permittivity (real part)	39.173682
Conductivity (S/m)	1.633425
Power Variation (%)	0.237519
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



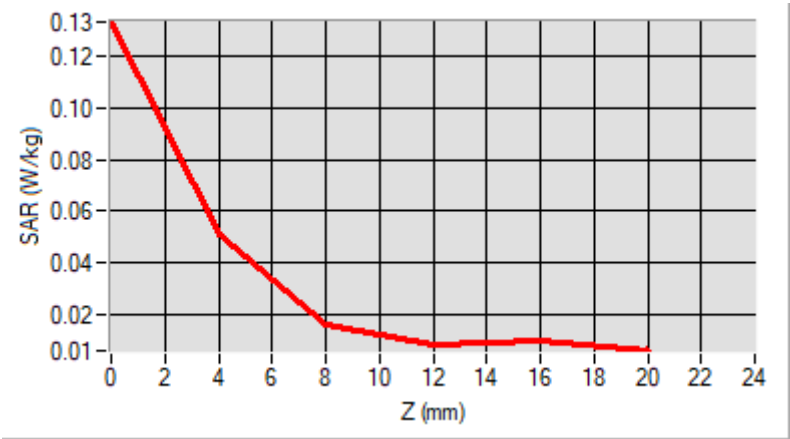
Maximum location: X=-41.00, Y=-32.00

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.024141
SAR 1g (W/Kg)	0.048327

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1336	0.0508	0.0156	0.0078	0.0097



F. 3D Image

3D screen shot	Hot spot position
A 3D model of a human head in profile, facing right. A small blue rectangular area is highlighted on the side of the head, indicating the hot spot position. A color scale bar is visible on the right side of the model, ranging from 0.005 to 0.051 W/kg.	A color-coded diagram showing the hot spot position. The diagram is a rectangular area with a color gradient from blue to red, indicating the intensity of the SAR. A color scale bar is visible on the right side of the diagram, ranging from 0.014 to 0.048 W/kg.

MEASUREMENT 14

Type: Phone measurement (Complete)
Date of measurement: 2023-10-21
Measurement duration: 12 minutes 3 seconds

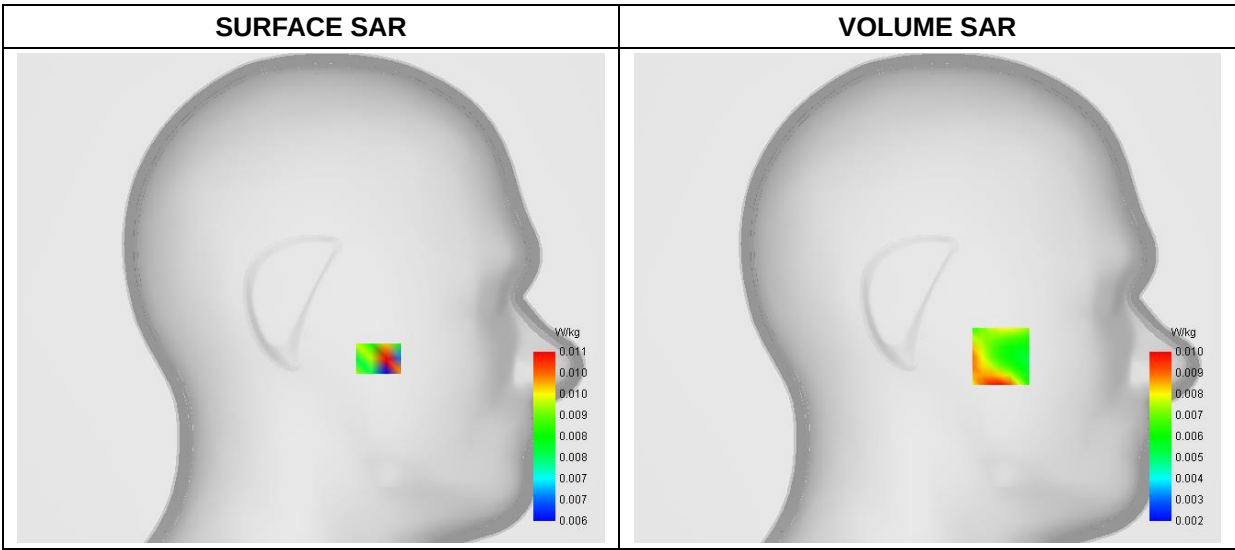
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 41
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	37.931162
Conductivity (S/m)	1.971925
Power Variation (%)	0.186699
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

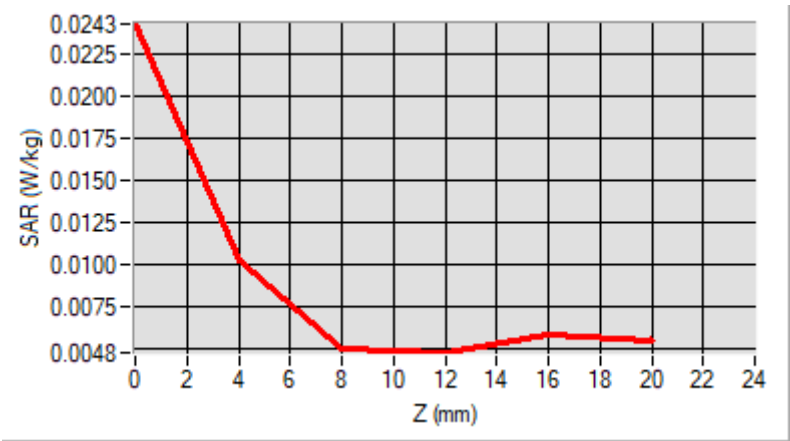


Maximum location: X=-39.00, Y=-31.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.007244
SAR 1g (W/Kg)	0.008693

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0243	0.0102	0.0051	0.0048	0.0059



F. 3D Image

3D screen shot	Hot spot position

MEASUREMENT 15

Type: Phone measurement (Complete)
Date of measurement: 2023-09-14
Measurement duration: 12 minutes 3 seconds

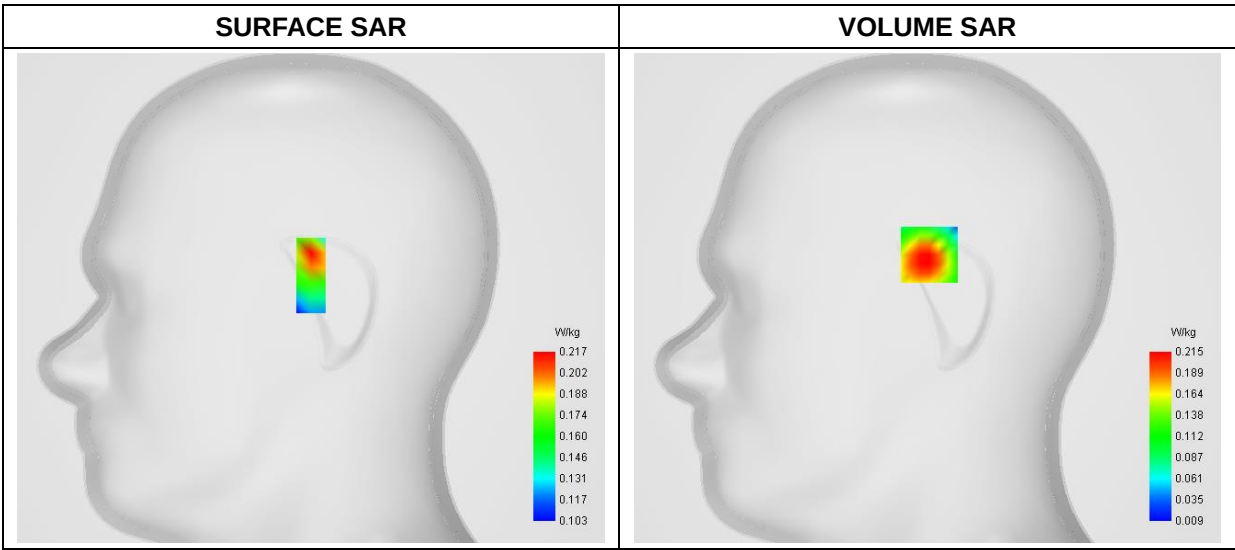
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	WiFi_802.11b
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2412.000000
Relative Permittivity (real part)	38.452301
Conductivity (S/m)	1.771638
Power Variation (%)	-1.962700
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

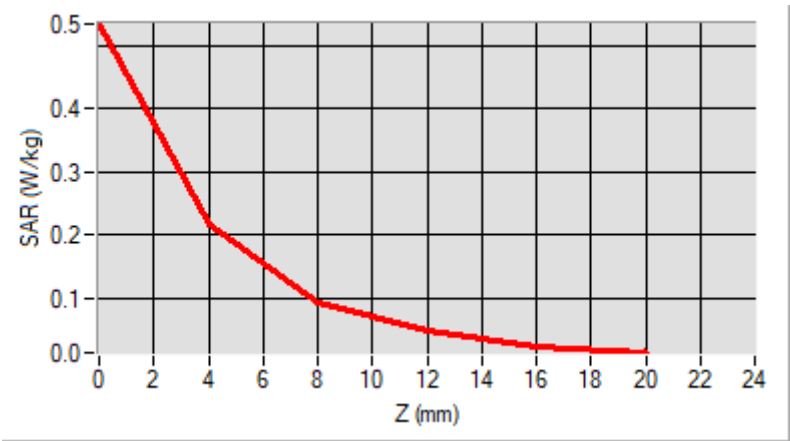


Maximum location: X=1.00, Y=23.00
D. SAR 1g & 10g

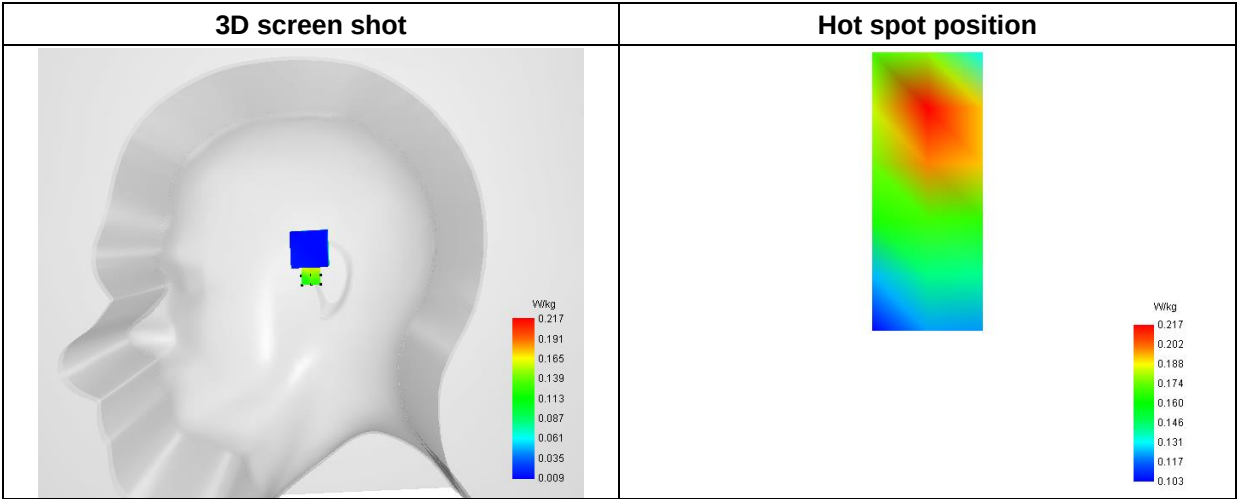
SAR 10g (W/Kg)	0.100084
SAR 1g (W/Kg)	0.205922

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5344	0.2152	0.0927	0.0489	0.0232



F. 3D Image



MEASUREMENT 16

Type: Phone measurement (Complete)
Date of measurement: 2023-09-14
Measurement duration: 12 minutes 3 seconds

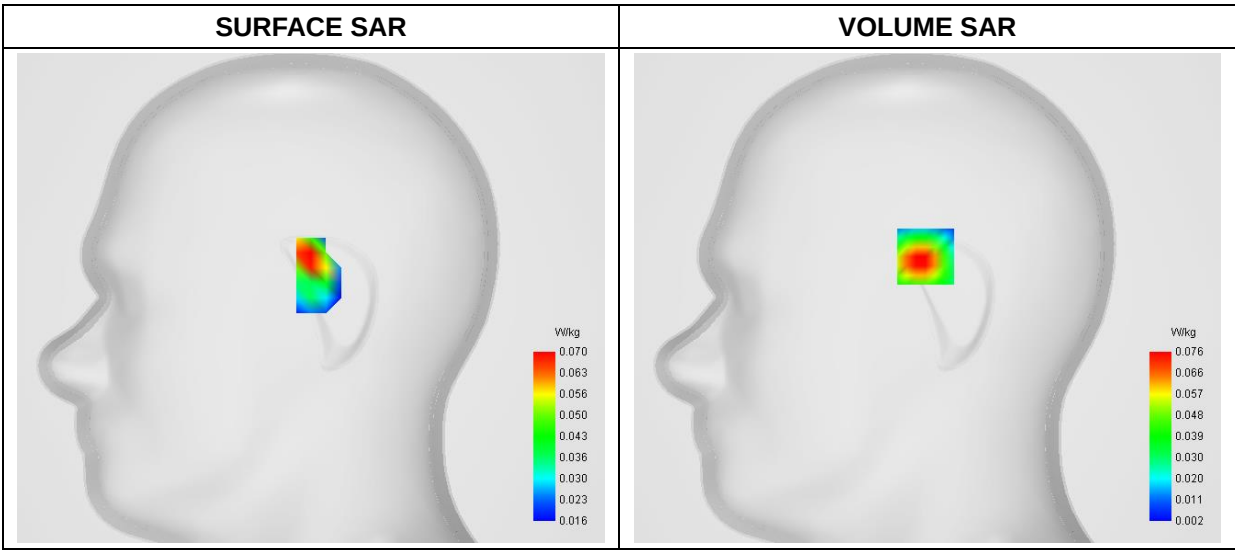
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	Bluetooth_ GFSK
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2441.000000
Relative Permittivity (real part)	38.454521
Conductivity (S/m)	1.773828
Power Variation (%)	1.961900
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

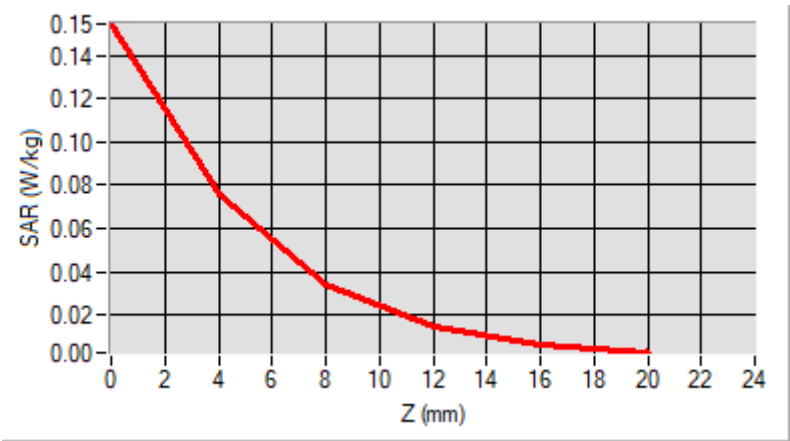


Maximum location: X=-1.00, Y=22.00
D. SAR 1g & 10g

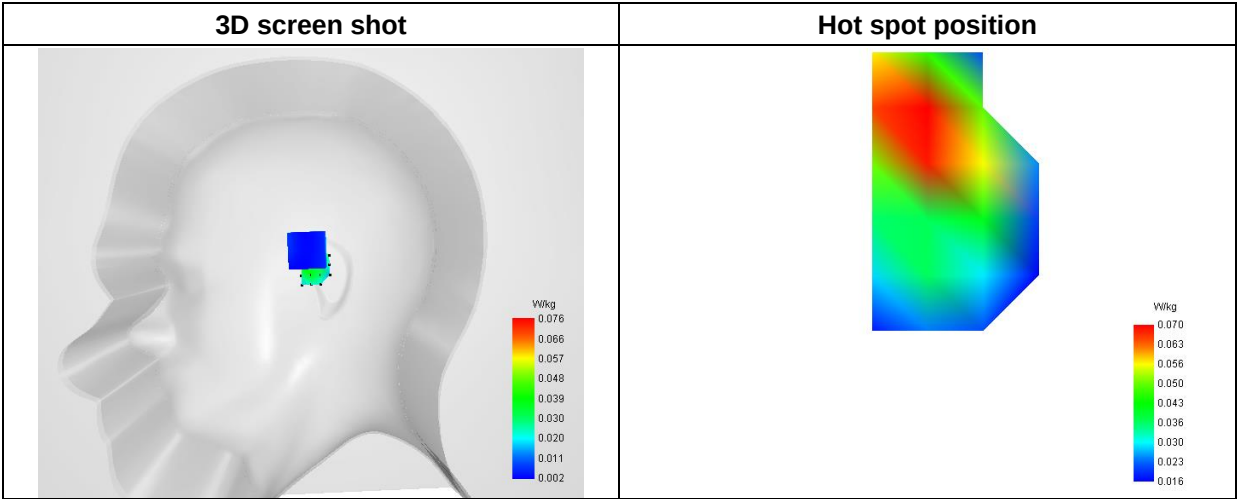
SAR 10g (W/Kg)	0.032235
SAR 1g (W/Kg)	0.072512

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1544	0.0757	0.0340	0.0146	0.0064



F. 3D Image



MEASUREMENT 17

Type: Phone measurement (Complete)
Date of measurement: 2023-09-15
Measurement duration: 12 minutes 3 seconds

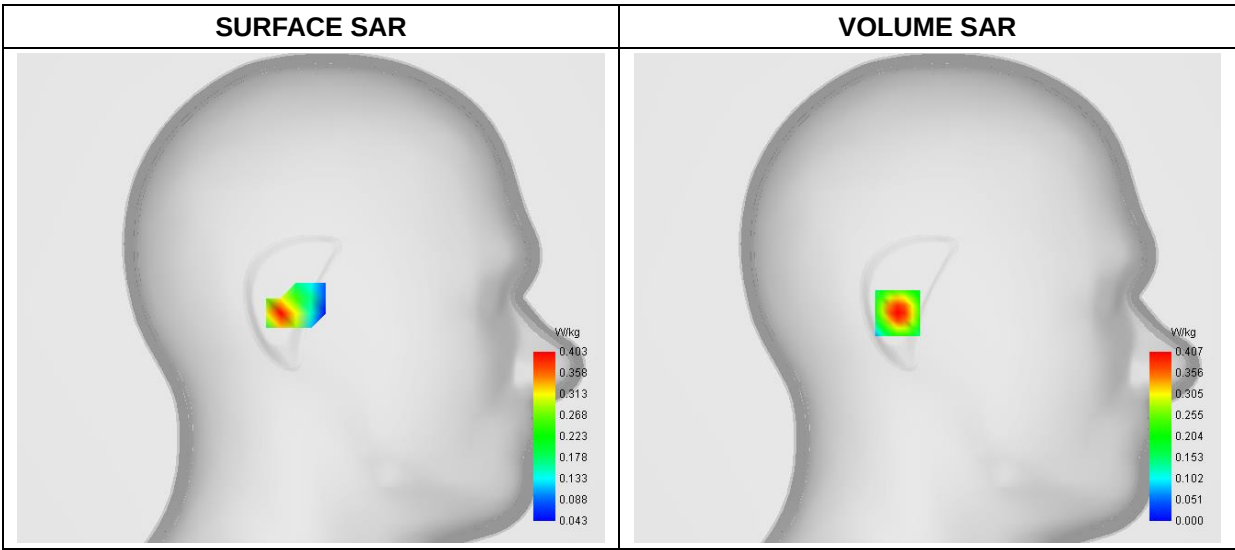
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Left Head
Device Position	Cheek
Band	WiFi(5.2GHz)_802.11a
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5180.000000
Relative Permittivity (real part)	36.183869
Conductivity (S/m)	4.621611
Power Variation (%)	-1.155700
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

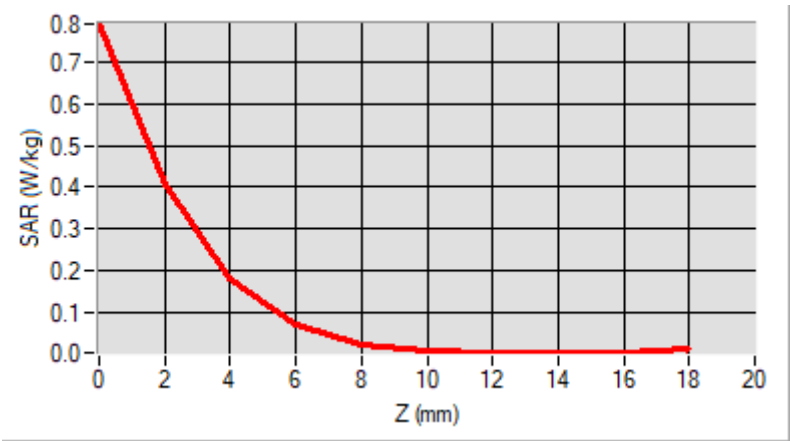


Maximum location: X=16.00, Y=-8.00
D. SAR 1g & 10g

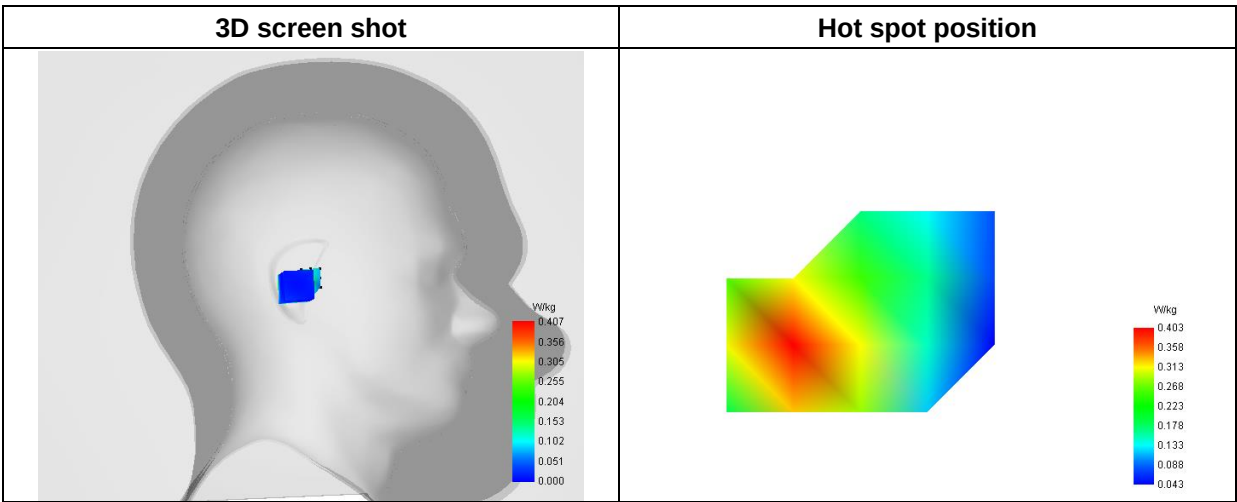
SAR 10g (W/Kg)	0.158969
SAR 1g (W/Kg)	0.433191

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.7924	0.4073	0.1820	0.0699	0.0239	0.0078	0.0032	0.0026	0.0040



F. 3D Image



MEASUREMENT 18

Type: Phone measurement (Complete)
Date of measurement: 2023-09-15
Measurement duration: 12 minutes 3 seconds

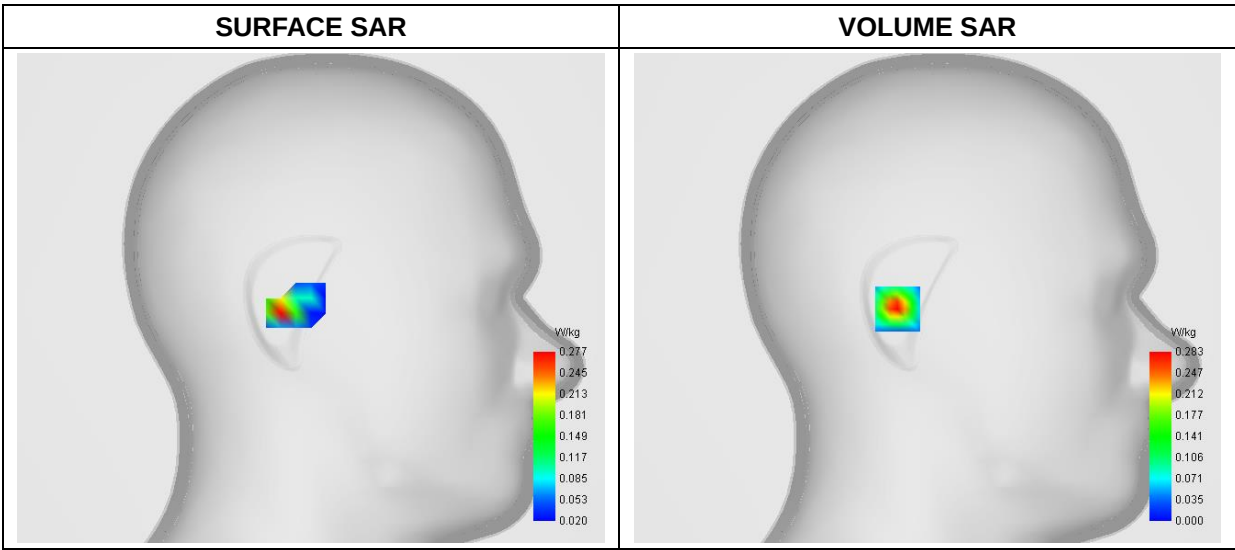
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Left Head
Device Position	Cheek
Band	WiFi(5.3GHz)_ 802.11a
Channels	Middle
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5280.000000
Relative Permittivity (real part)	36.182839
Conductivity (S/m)	4.622926
Power Variation (%)	-0.466800
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

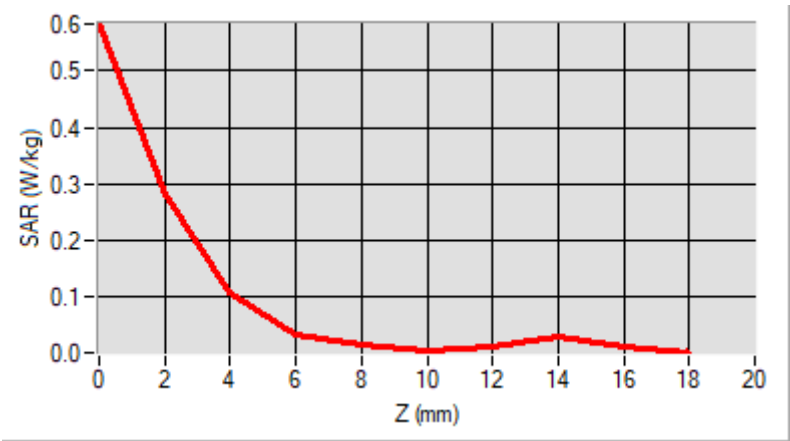


Maximum location: X=16.00, Y=-6.00
D. SAR 1g & 10g

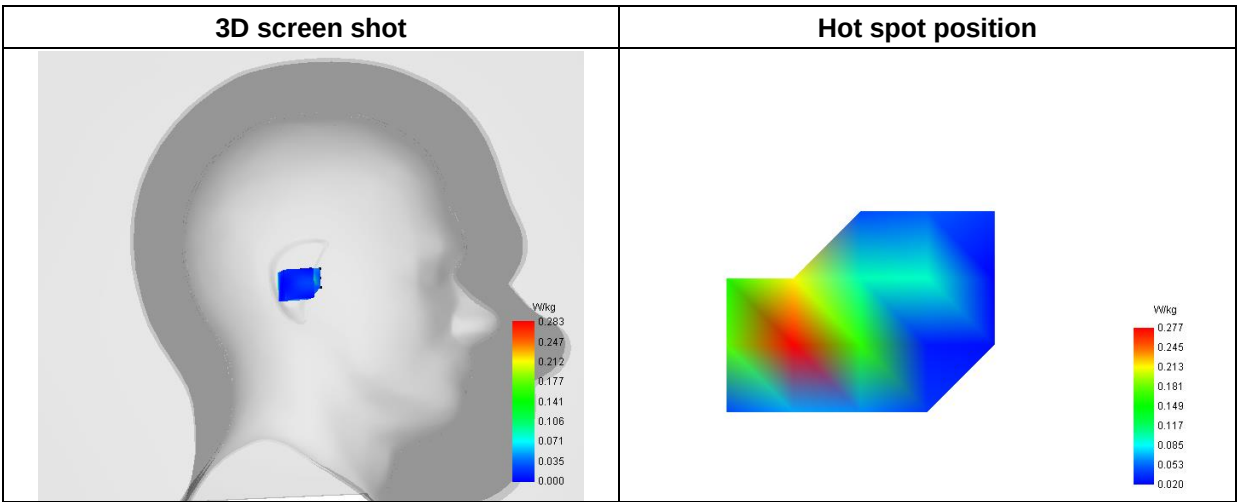
SAR 10g (W/Kg)	0.091937
SAR 1g (W/Kg)	0.311171

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.5835	0.2825	0.1070	0.0313	0.0128	0.0034	0.0089	0.0291	0.0106



F. 3D Image



MEASUREMENT 19

Type: Phone measurement (Complete)
Date of measurement: 2023-09-16
Measurement duration: 12 minutes 21 seconds

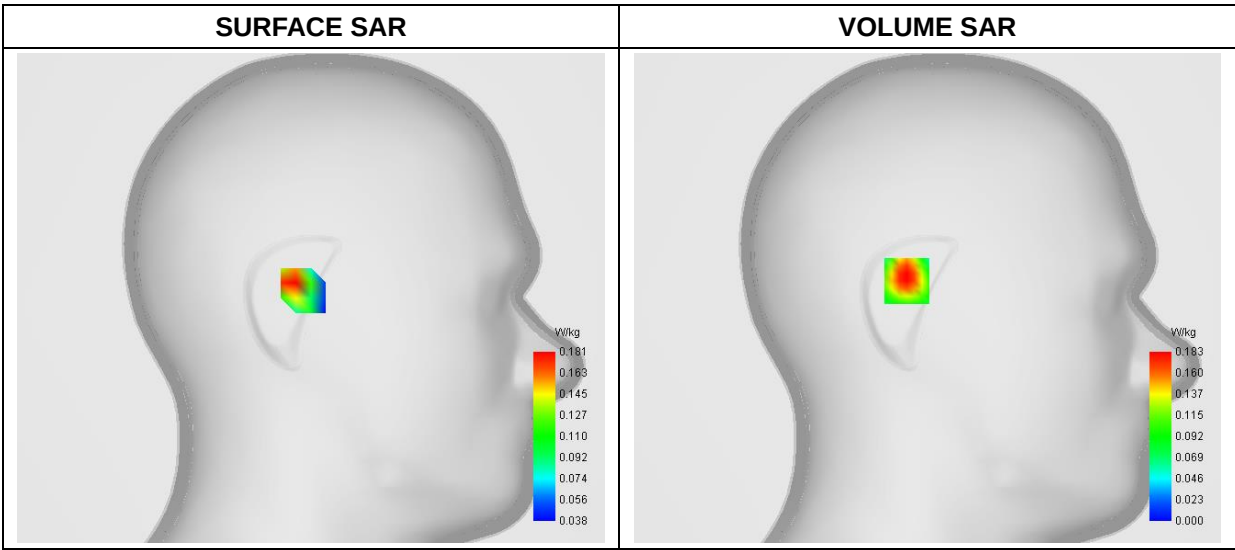
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Left Head
Device Position	Cheek
Band	WiFi(5.6GHz)_802.11a
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5500.000000
Relative Permittivity (real part)	35.462963
Conductivity (S/m)	5.012781
Power Variation (%)	-1.845700
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

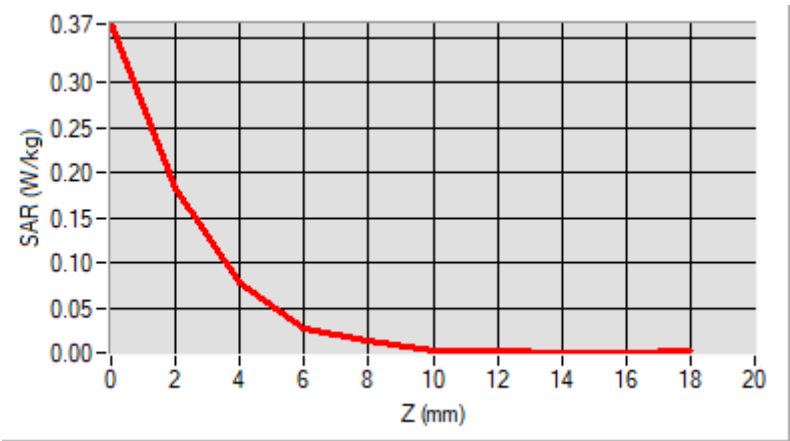


Maximum location: X=11.00, Y=9.00
D. SAR 1g & 10g

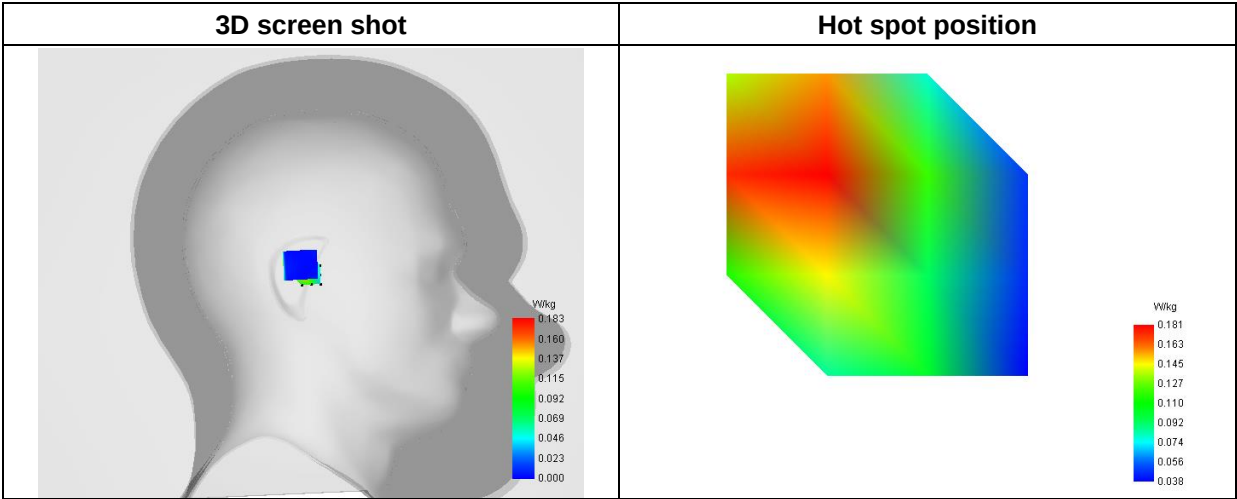
SAR 10g (W/Kg)	0.075952
SAR 1g (W/Kg)	0.203909

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.3651	0.1832	0.0783	0.0281	0.0135	0.0022	0.0025	0.0006	0.0014



F. 3D Image



MEASUREMENT 20

Type: Phone measurement (Complete)
Date of measurement: 2023-09-16
Measurement duration: 12 minutes 21 seconds

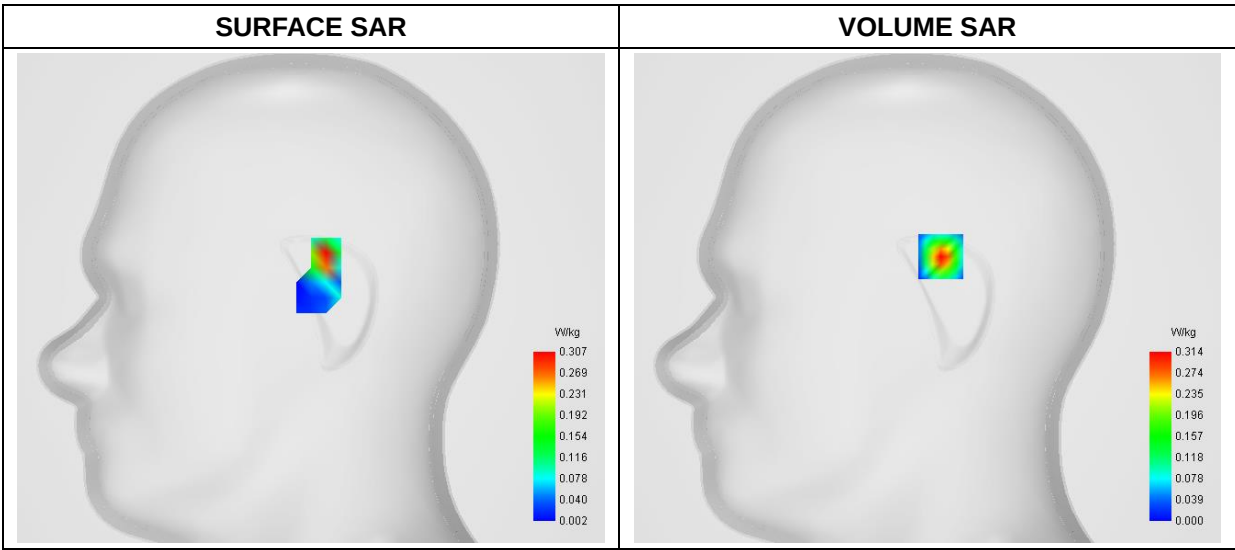
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Left Head
Device Position	Cheek
Band	WiFi(5.8GHz)_802.11ac(20MHz)
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5745.000000
Relative Permittivity (real part)	34.912273
Conductivity (S/m)	5.183836
Power Variation (%)	-1.294700
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

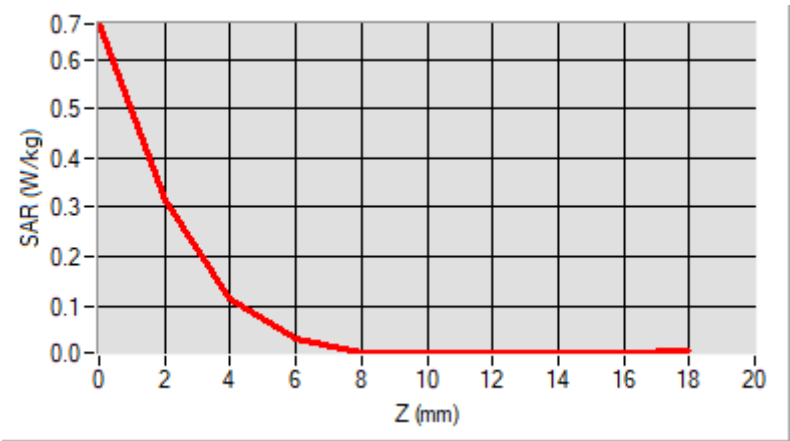


Maximum location: X=7.00, Y=22.00
D. SAR 1g & 10g

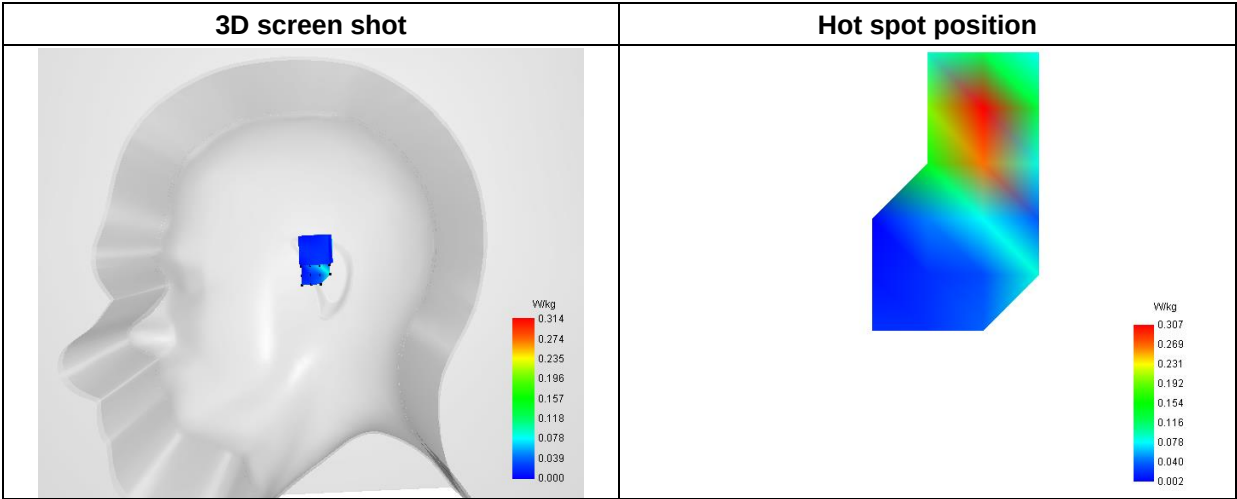
SAR 10g (W/Kg)	0.098904
SAR 1g (W/Kg)	0.337934

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.6715	0.3137	0.1158	0.0318	0.0060	0.0060	0.0045	0.0062	0.0065



F. 3D Image



MEASUREMENT 21

Type: Phone measurement (Complete)
Date of measurement: 2023-09-11
Measurement duration: 12 minutes 3 seconds

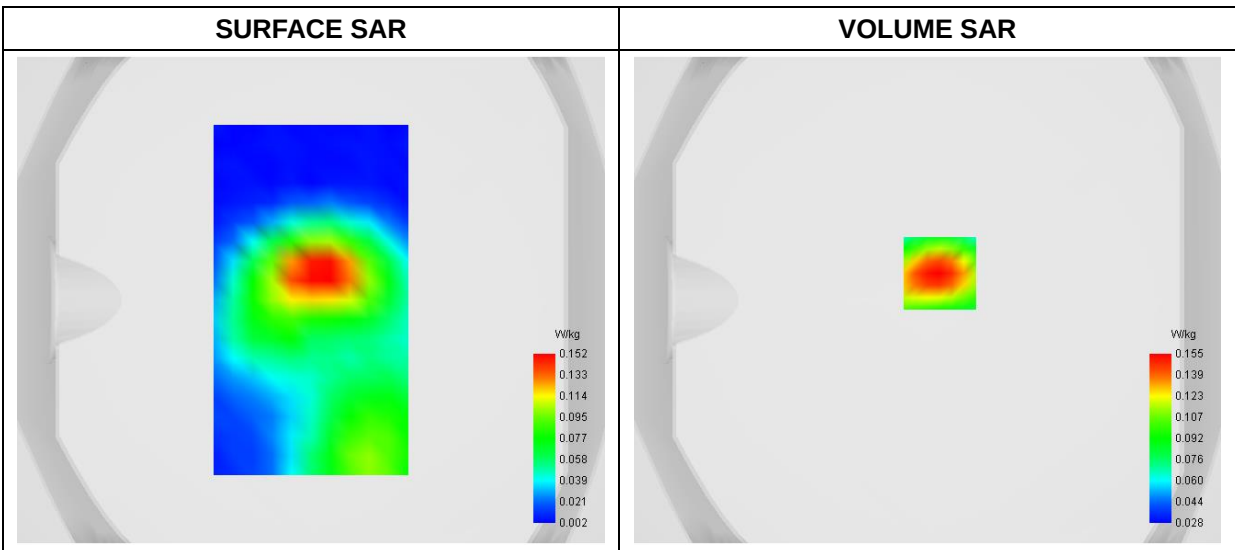
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	GSM850
Channels	High
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative Permittivity (real part)	40.752245
Conductivity (S/m)	0.881245
Power Variation (%)	0.721472
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



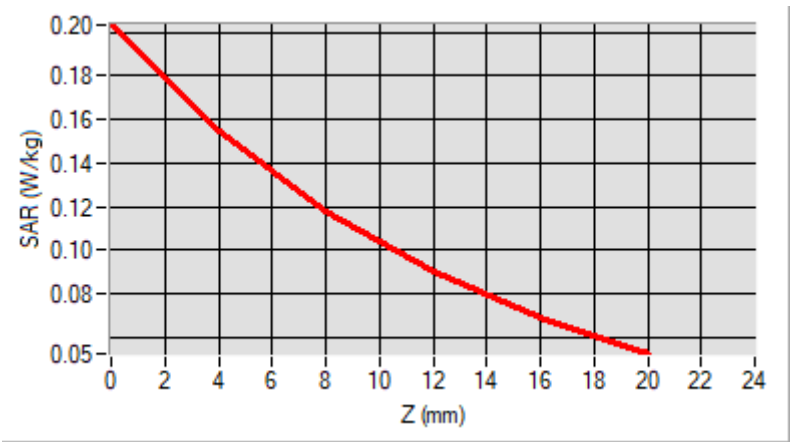
Maximum location: X=5.00, Y=11.00

D. SAR 1g & 10g

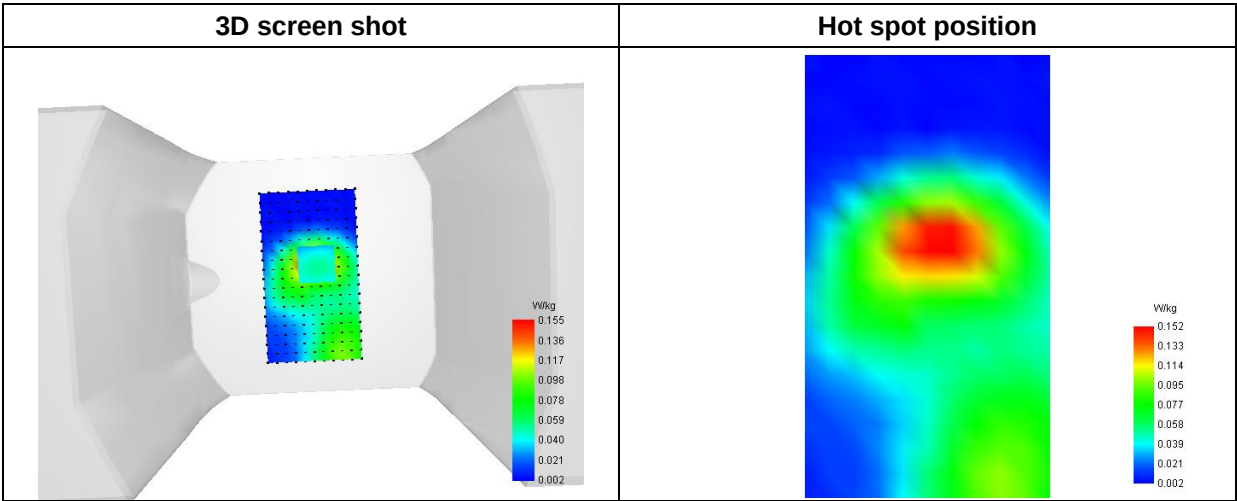
SAR 10g (W/Kg)	0.095561
SAR 1g (W/Kg)	0.144862

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2033	0.1550	0.1179	0.0902	0.0693



F. 3D Image



MEASUREMENT 22

Type: Phone measurement (Complete)
Date of measurement: 2023-09-12
Measurement duration: 12 minutes 3 seconds

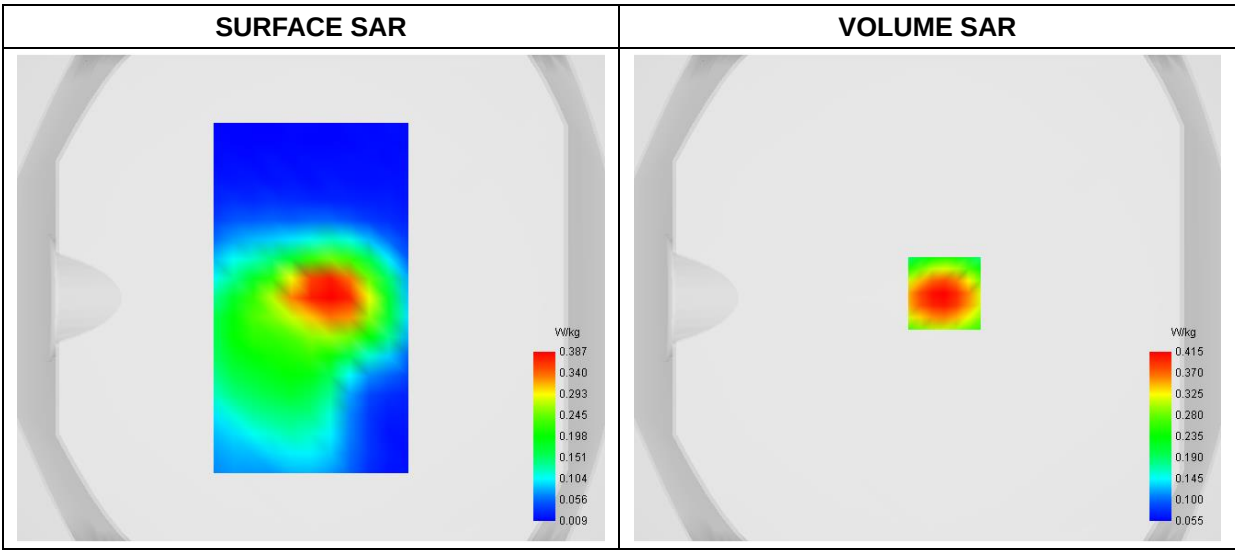
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front
Band	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	39.434528
Conductivity (S/m)	1.382678
Power Variation (%)	-1.141700
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

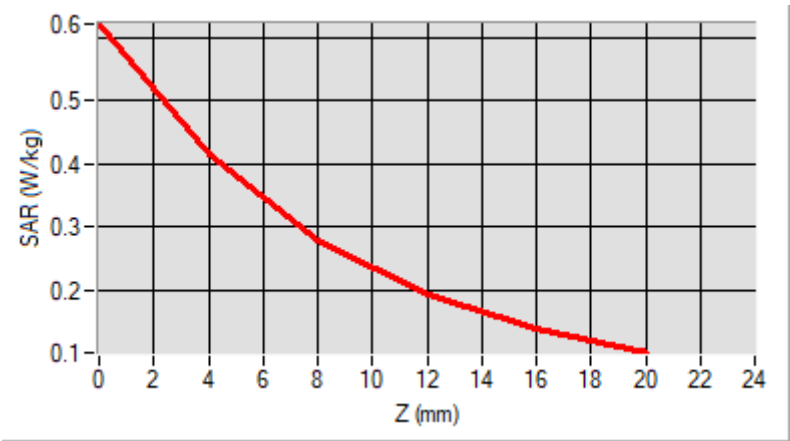


Maximum location: X=7.00, Y=2.00
D. SAR 1g & 10g

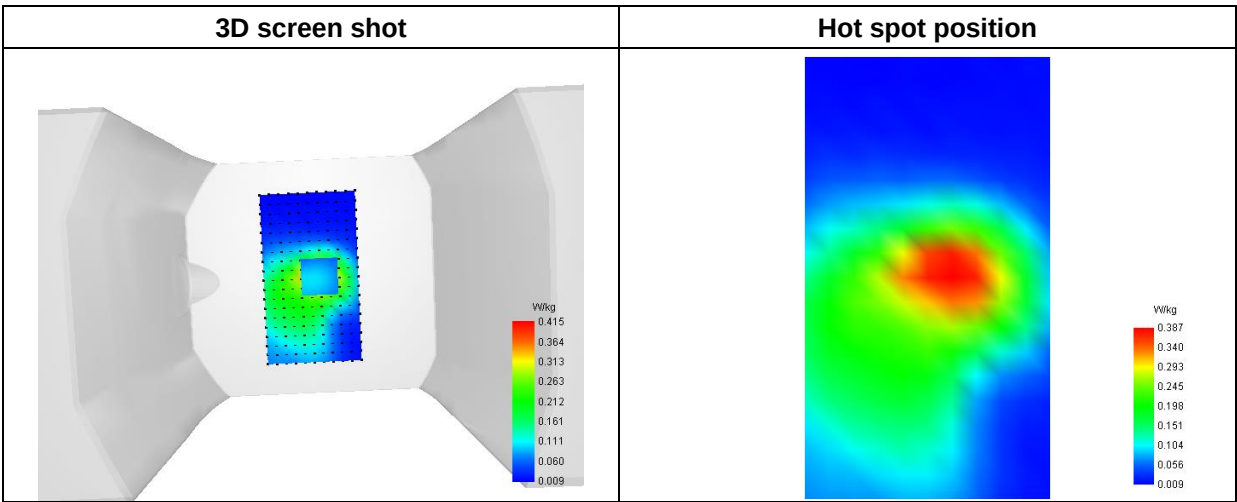
SAR 10g (W/Kg)	0.239376
SAR 1g (W/Kg)	0.391265

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6214	0.4148	0.2775	0.1911	0.1377



F. 3D Image



MEASUREMENT 23/41

Type: Phone measurement (Complete)
Date of measurement: 2023-09-12
Measurement duration: 12 minutes 3 seconds

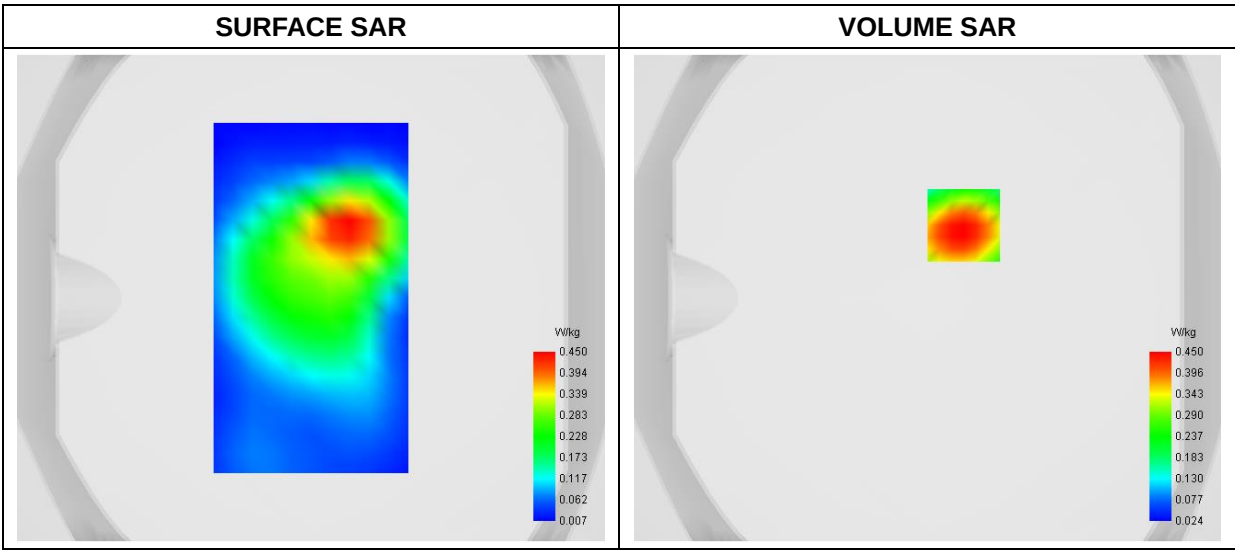
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front
Band	WCDMA1900_RMC
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1907.600000
Relative Permittivity (real part)	39.060124
Conductivity (S/m)	1.393607
Power Variation (%)	-0.471700
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

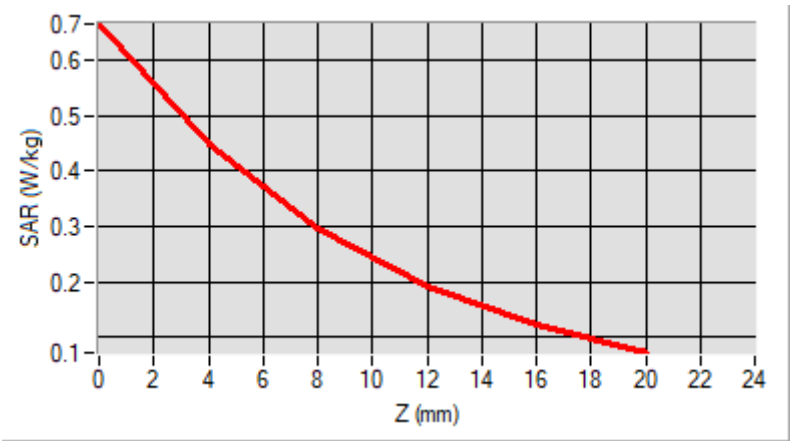


Maximum location: X=15.00, Y=30.00
D. SAR 1g & 10g

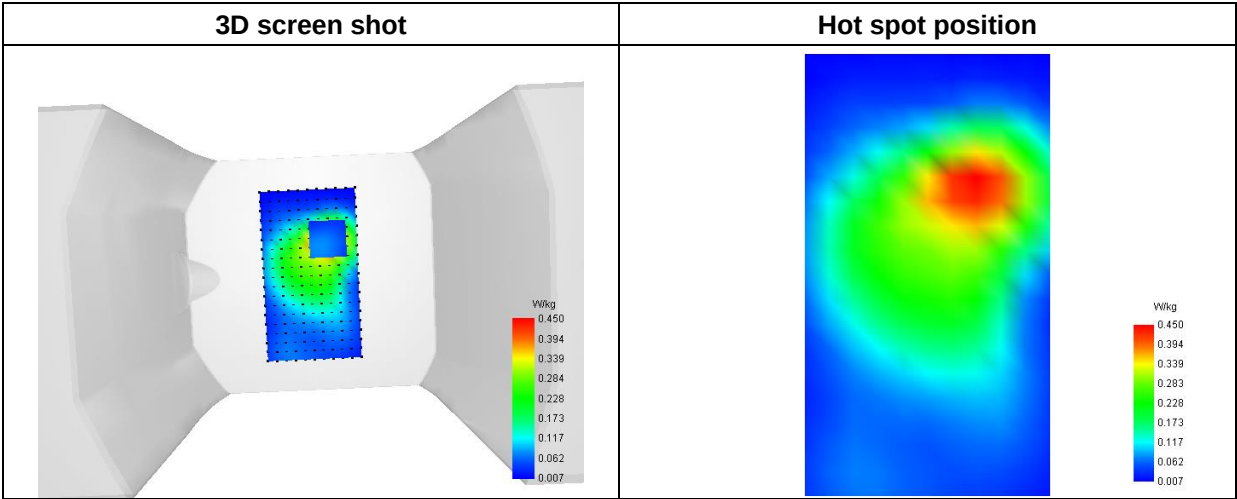
SAR 10g (W/Kg)	0.245914
SAR 1g (W/Kg)	0.424847

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6656	0.4496	0.2972	0.1930	0.1226



F. 3D Image



MEASUREMENT 24/42

Type: Phone measurement (Complete)
Date of measurement: 2023-09-11
Measurement duration: 12 minutes 3 seconds

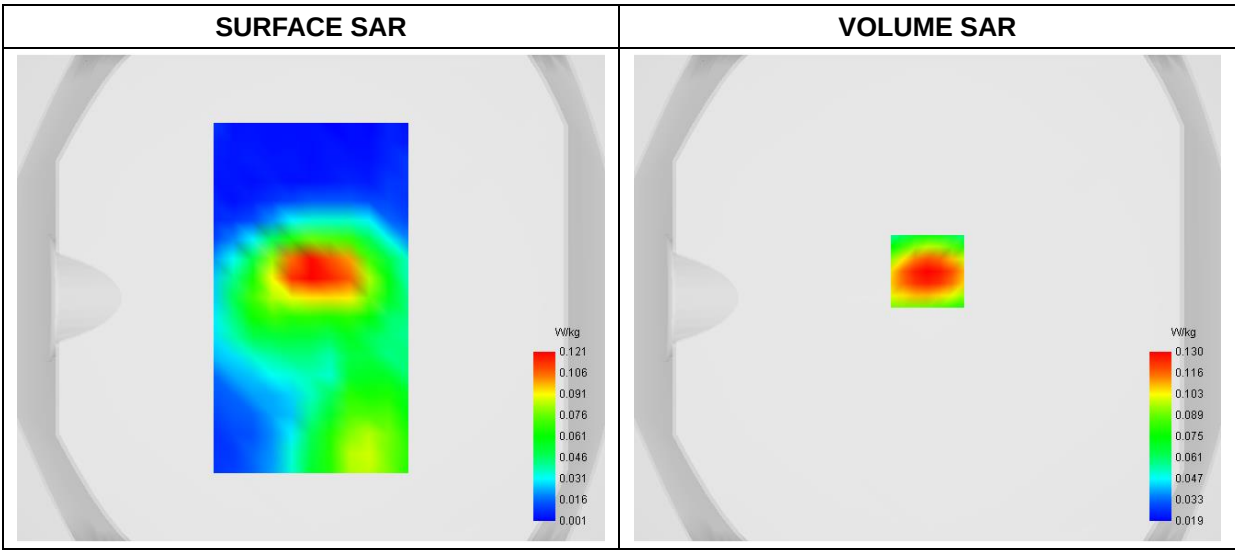
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA850_RMC
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	846.600000
Relative Permittivity (real part)	40.753245
Conductivity (S/m)	0.881245
Power Variation (%)	-1.352700
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

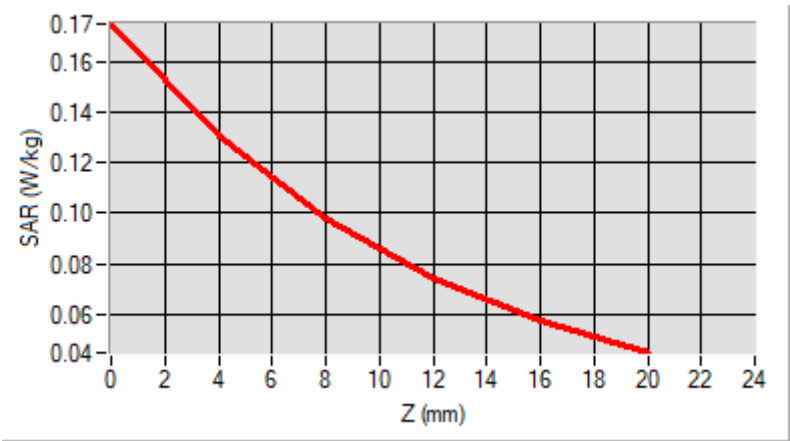


Maximum location: X=0.00, Y=11.00
D. SAR 1g & 10g

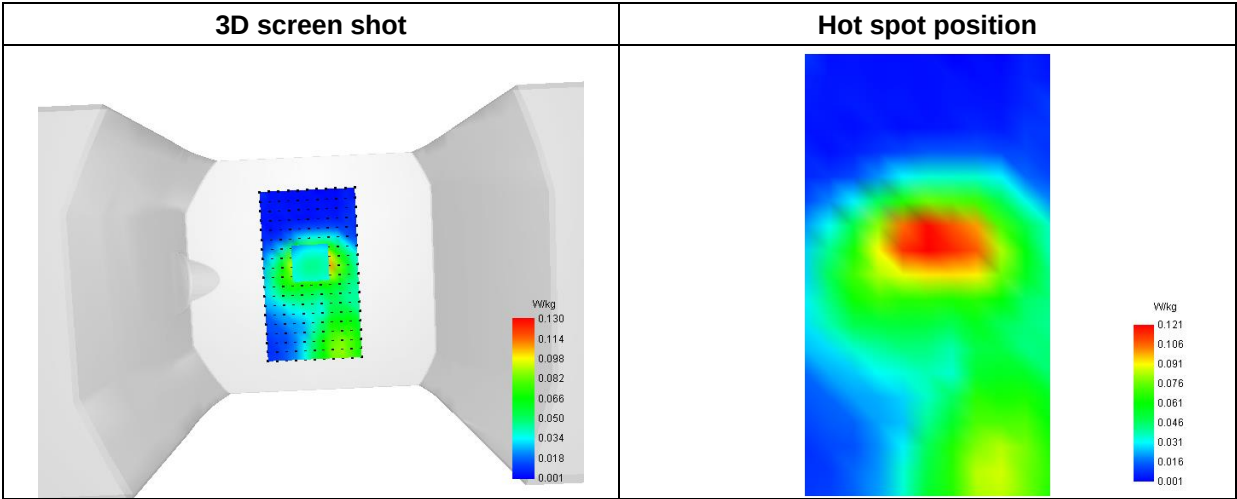
SAR 10g (W/Kg)	0.081446
SAR 1g (W/Kg)	0.122610

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1747	0.1304	0.0977	0.0744	0.0578



F. 3D Image



MEASUREMENT 25/43

Type: Phone measurement (Complete)
Date of measurement: 2023-09-12
Measurement duration: 12 minutes 3 seconds

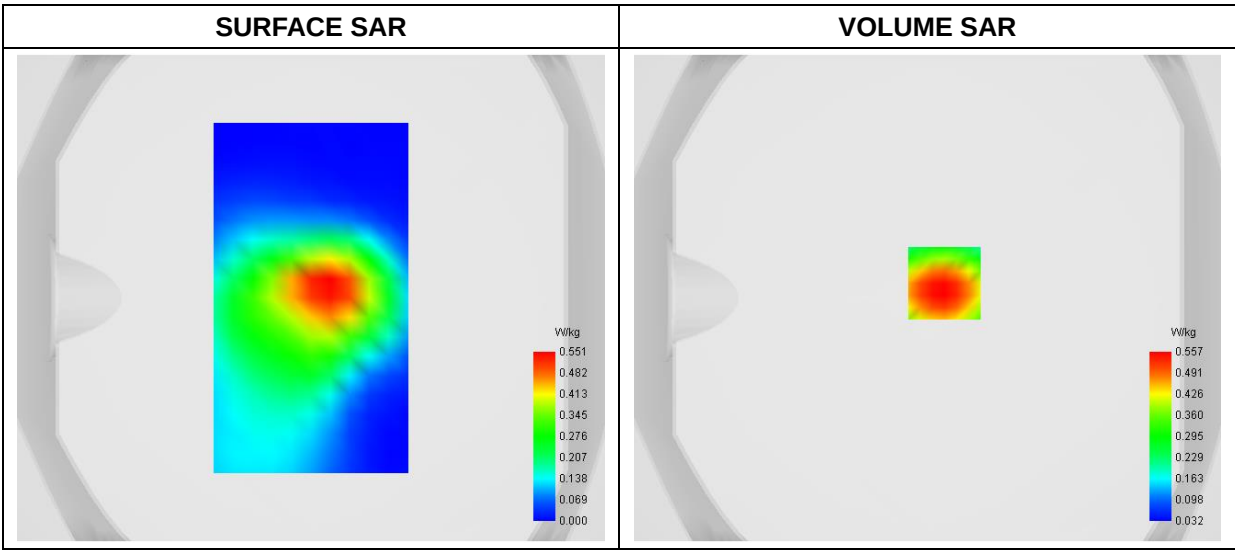
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 2
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1860.000000
Relative Permittivity (real part)	39.431612
Conductivity (S/m)	1.382369
Power Variation (%)	-0.195800
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



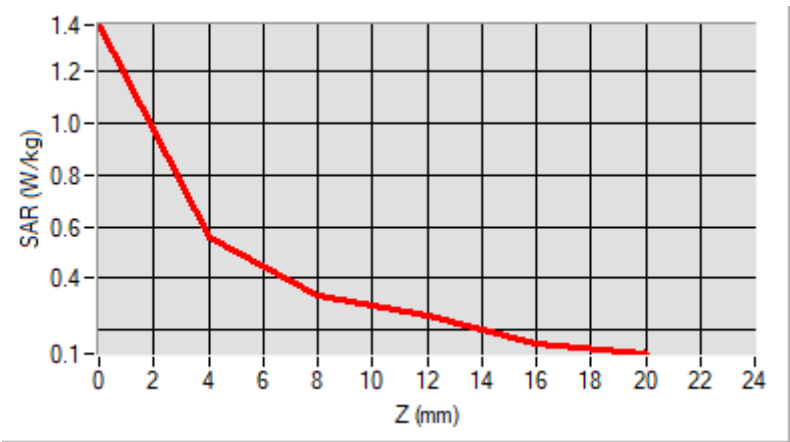
Maximum location: X=7.00, Y=6.00

D. SAR 1g & 10g

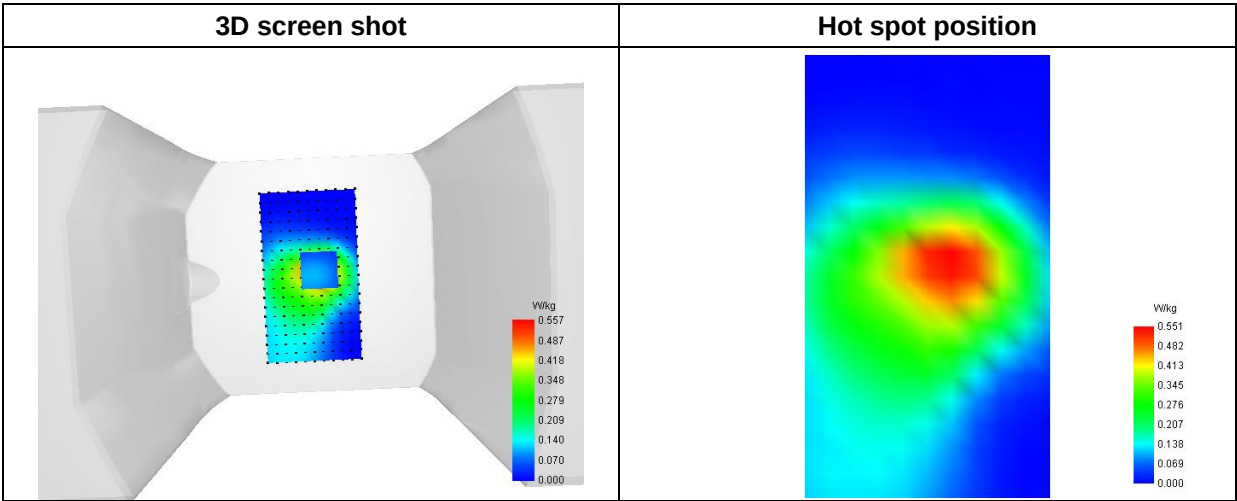
SAR 10g (W/Kg)	0.310922
SAR 1g (W/Kg)	0.526841

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.3816	0.5568	0.3328	0.2555	0.1472



F. 3D Image



MEASUREMENT 26/44

Type: Phone measurement (Complete)
Date of measurement: 2023-09-12
Measurement duration: 12 minutes 3 seconds

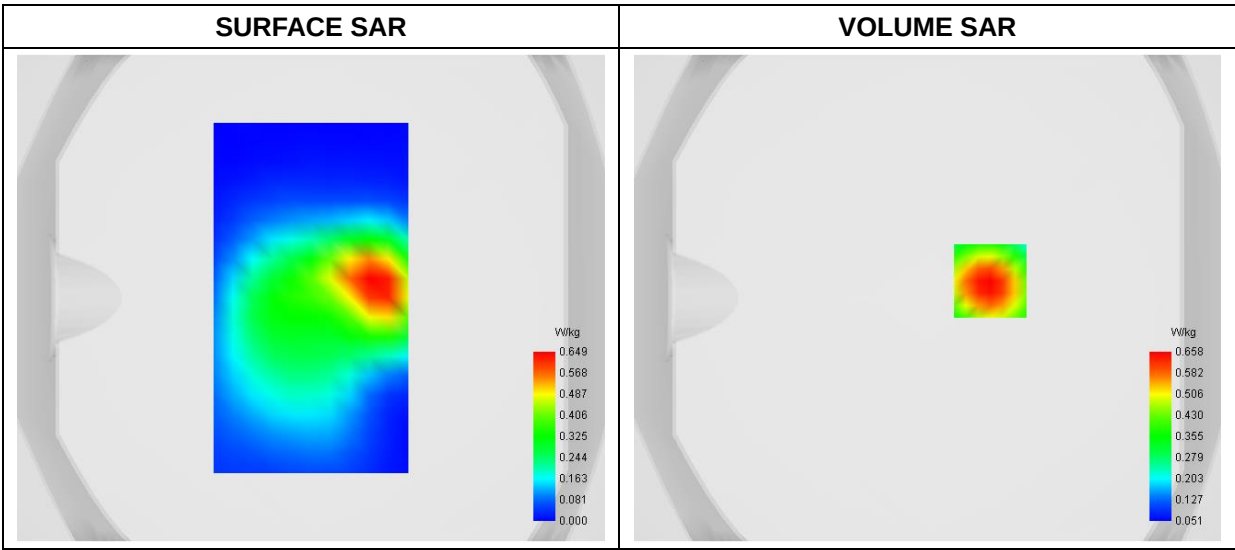
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 4
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1720.000000
Relative Permittivity (real part)	39.433275
Conductivity (S/m)	1.382198
Power Variation (%)	-0.867400
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

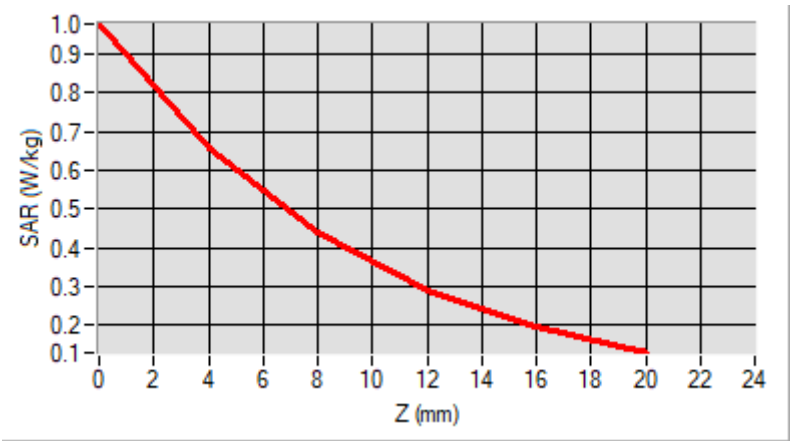


Maximum location: X=26.00, Y=7.00
D. SAR 1g & 10g

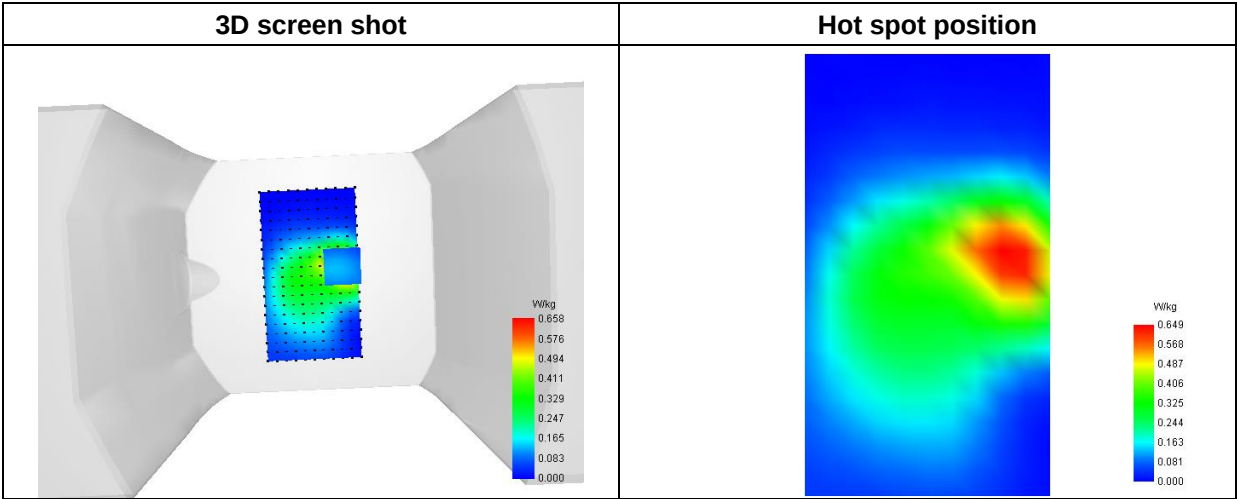
SAR 10g (W/Kg)	0.360172
SAR 1g (W/Kg)	0.614669

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.9786	0.6579	0.4377	0.2923	0.1973



F. 3D Image



MEASUREMENT 27/45

Type: Phone measurement (Complete)
Date of measurement: 2023-09-11
Measurement duration: 12 minutes 3 seconds

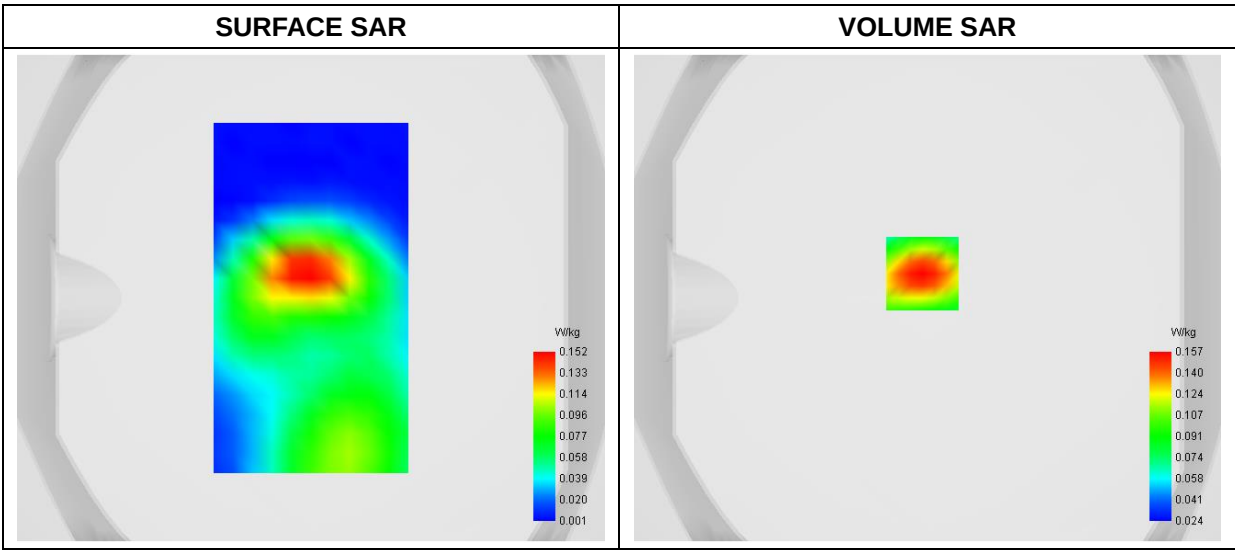
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 5
Channels	QPSK, 10MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	829.000000
Relative Permittivity (real part)	40.752451
Conductivity (S/m)	0.881245
Power Variation (%)	-0.813800
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

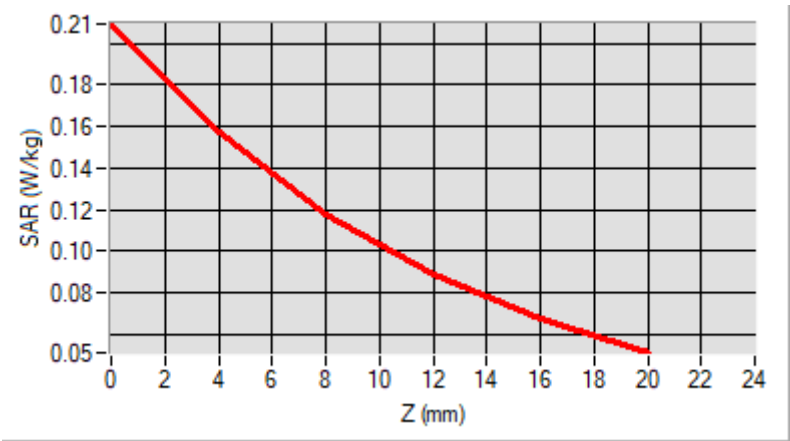


Maximum location: X=-2.00, Y=10.00
D. SAR 1g & 10g

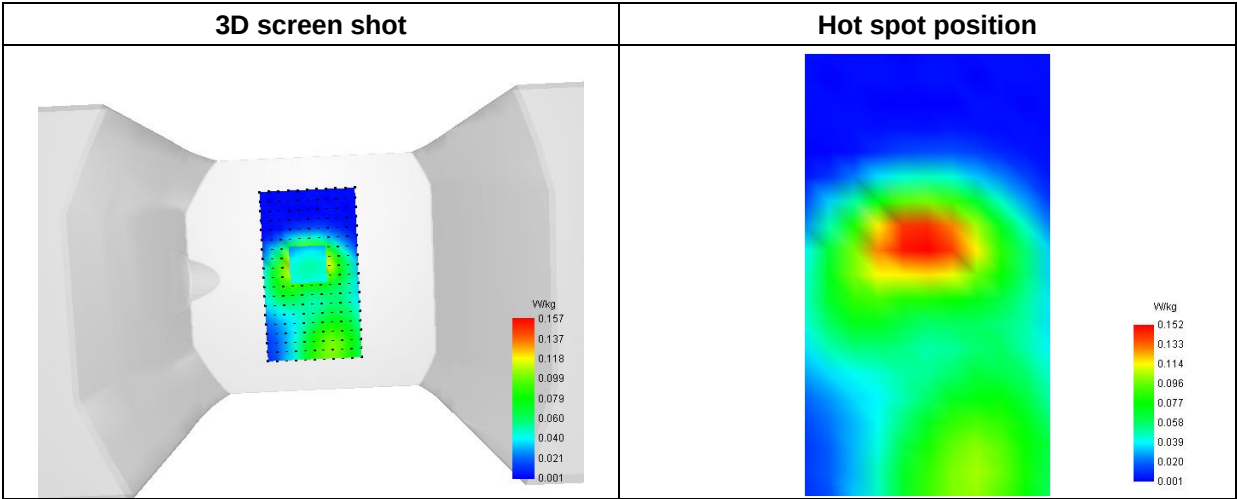
SAR 10g (W/Kg)	0.095478
SAR 1g (W/Kg)	0.146262

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2092	0.1569	0.1175	0.0888	0.0677



F. 3D Image



MEASUREMENT 28

Type: Phone measurement (Complete)
Date of measurement: 2023-10-21
Measurement duration: 12 minutes 3 seconds

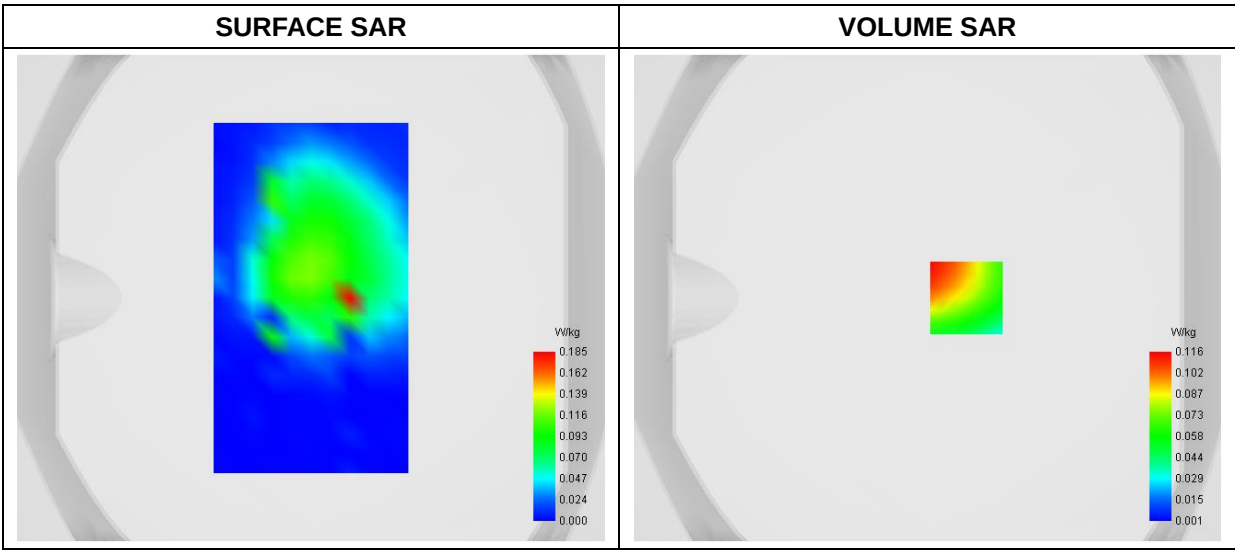
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 7
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2510.000000
Relative Permittivity (real part)	37.933302
Conductivity (S/m)	1.973822
Power Variation (%)	0.246211
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

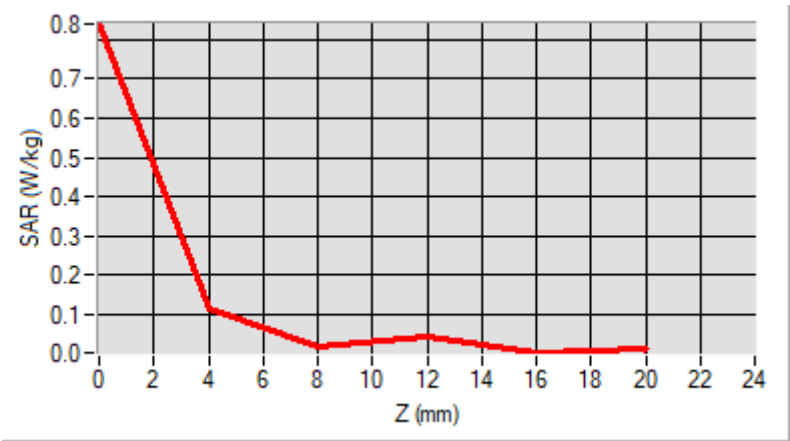


Maximum location: X=16.00, Y=0.00
D. SAR 1g & 10g

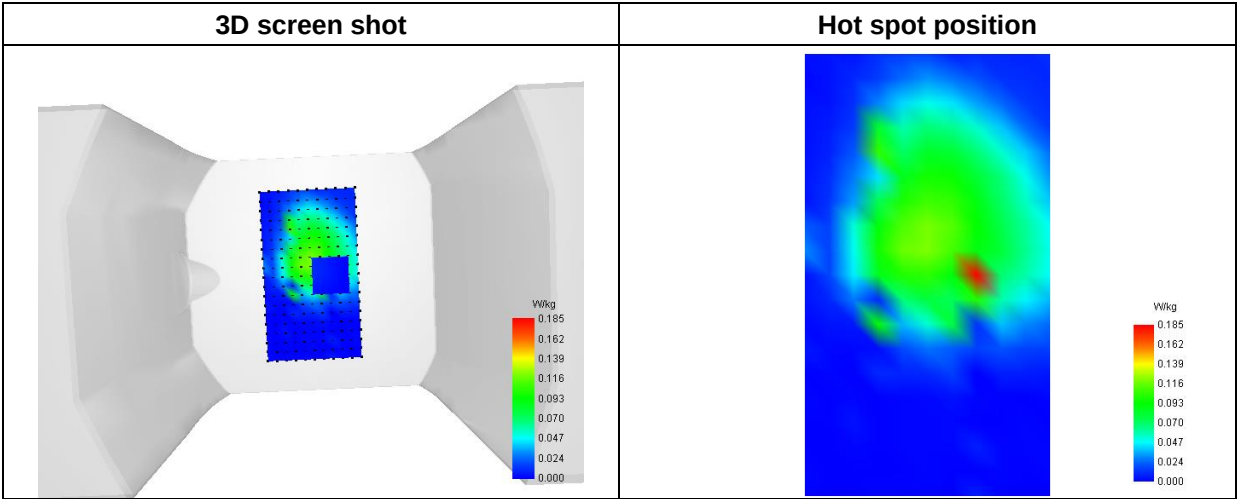
SAR 10g (W/Kg)	0.051008
SAR 1g (W/Kg)	0.108147

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.8393	0.1161	0.0170	0.0433	0.0032



F. 3D Image



MEASUREMENT 29/47

Type: Phone measurement (Complete)
Date of measurement: 2023-10-21
Measurement duration: 12 minutes 3 seconds

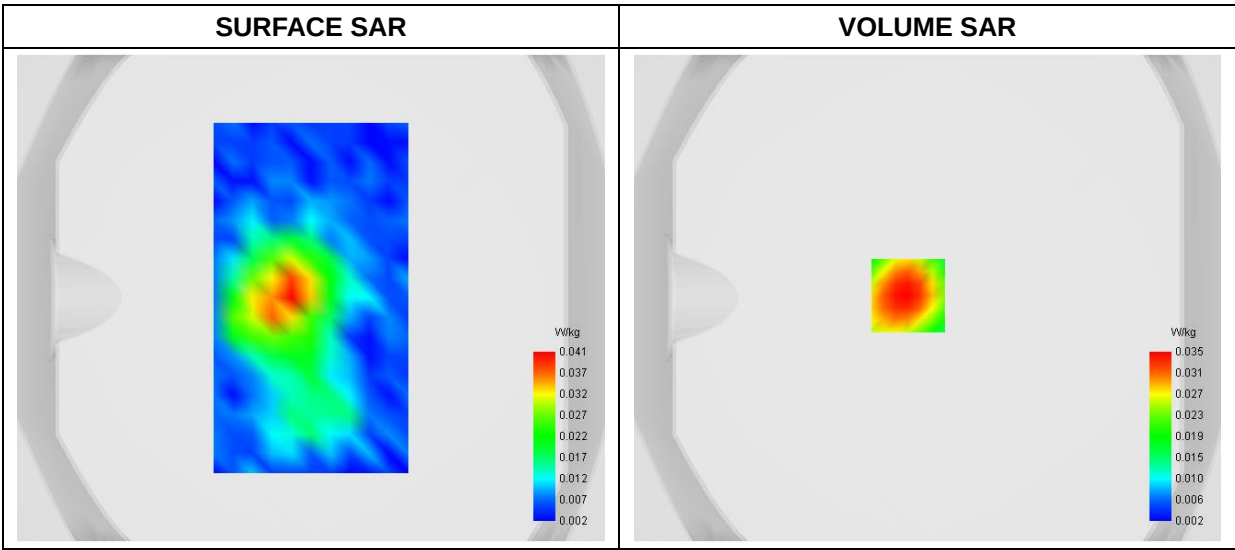
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 38
Channels	QPSK, 20MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2595.000000
Relative Permittivity (real part)	37.932666
Conductivity (S/m)	1.973182
Power Variation (%)	-1.015400
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

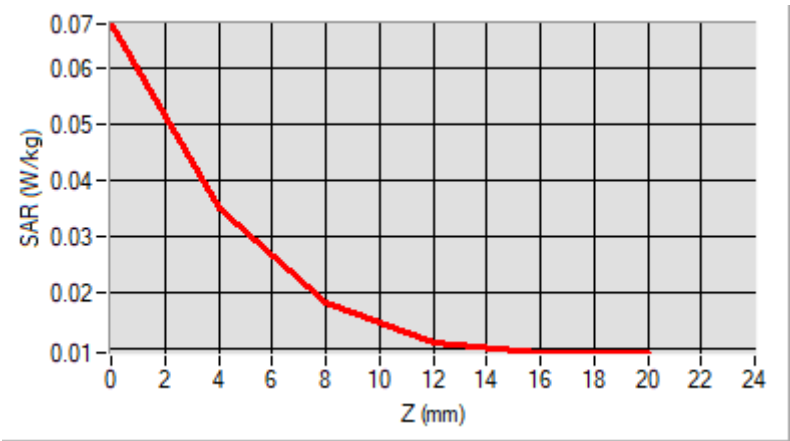


Maximum location: X=-8.00, Y=1.00
D. SAR 1g & 10g

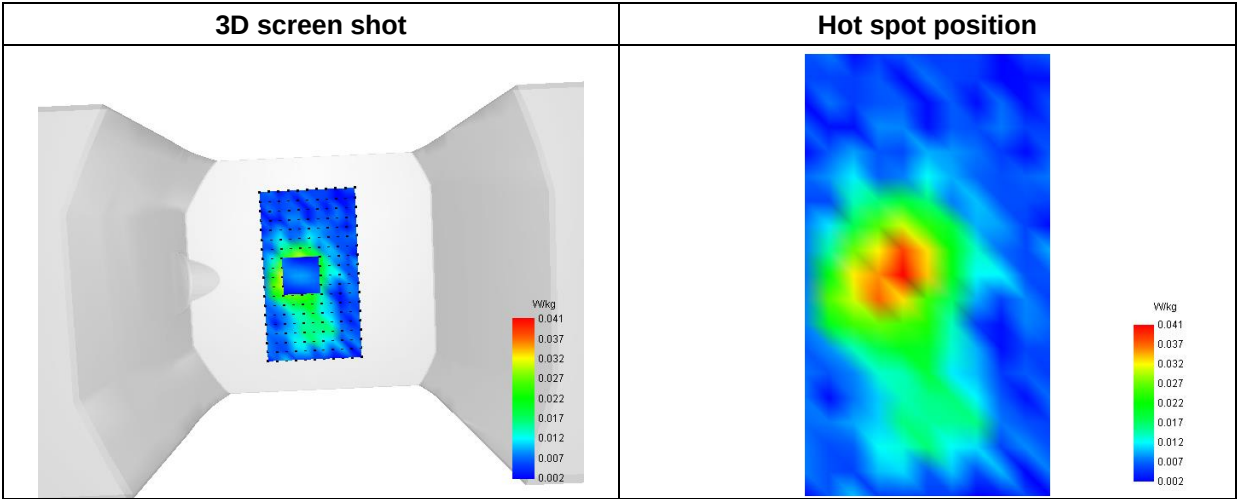
SAR 10g (W/Kg)	0.019382
SAR 1g (W/Kg)	0.034603

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0679	0.0351	0.0182	0.0112	0.0092



F. 3D Image



MEASUREMENT 30/48

Type: Phone measurement (Complete)
Date of measurement: 2023-09-13
Measurement duration: 12 minutes 3 seconds

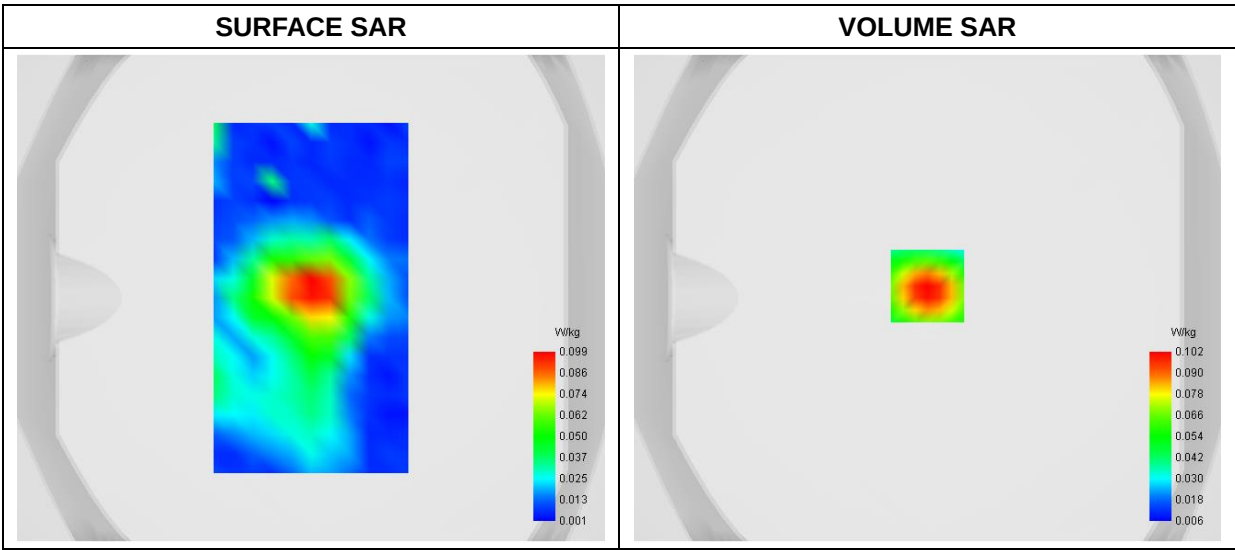
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 40(2305-2315MHz)
Channels	QPSK, 10MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2310.000000
Relative Permittivity (real part)	41.023668
Conductivity (S/m)	0.863696
Power Variation (%)	-1.374700
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

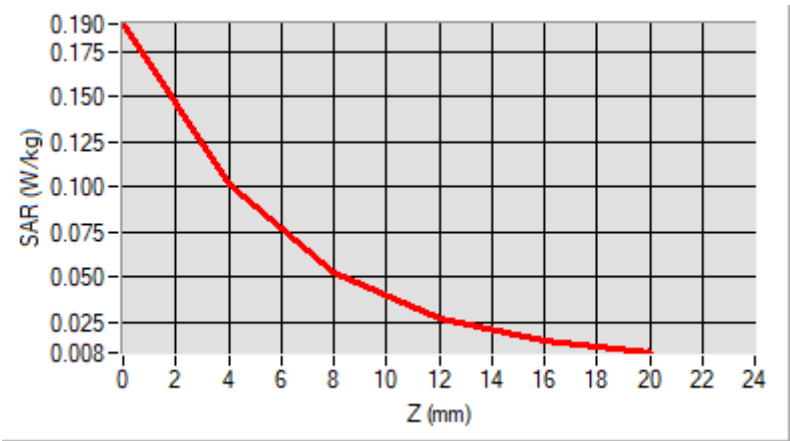


Maximum location: X=0.00, Y=5.00
D. SAR 1g & 10g

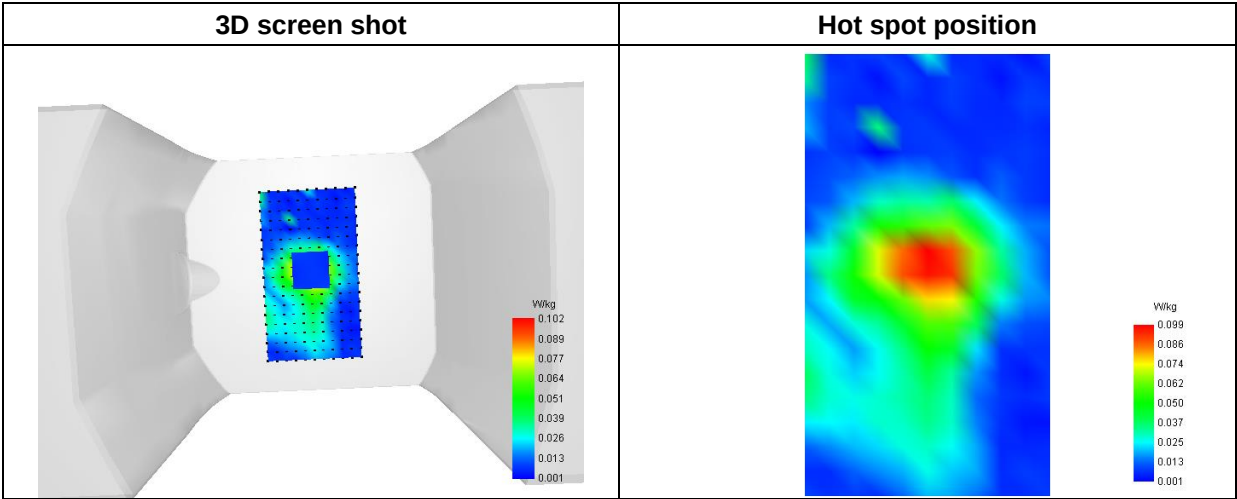
SAR 10g (W/Kg)	0.047216
SAR 1g (W/Kg)	0.095927

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1905	0.1019	0.0521	0.0267	0.0146



F. 3D Image



MEASUREMENT 31/49

Type: Phone measurement (Complete)
Date of measurement: 2023-09-13
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 40(2350-2360MHz)
Channels	QPSK, 10MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2355.000000
Relative Permittivity (real part)	39.173682
Conductivity (S/m)	1.633425
Power Variation (%)	0.354083
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

