



SAR Test Report

For

Applicant Name: FOXX Development Inc.
Address: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA
EUT Name: Smart Phone
Brand Name: FOXXD
Model Number: A55AM

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: BTF240531R01101
Test Standards: FCC 47 CFR§2.1093 IEC/IEEE 62209-1528: 2020
IEEE C95.1-2019 KDB447498 D04 KDB865664 D01
KDB865664 D02 KDB941225 D01 KDB941225 D05
KDB248227 D01 KDB941225 D06 KDB648474 D04
KDB690783 D01
FCC ID: 2AQRM-A55AM

Test Conclusion: Pass
Test Date: 2024-06-05 to 2024-06-14
Date of Issue: 2024-06-15

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Date: 2024-06-15
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Approved By: Ryan.CJ
Ryan.CJ / EMC Manager
Date: 2024-06-15



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2024-06-15	Original
<i>Note:</i>	<i>Once the revision has been made, then previous versions reports are invalid.</i>	

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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
FCC Registration Number	518915
Designation Number	CN1330

1.3 Laboratory Condition

Ambient Temperature:	21°C to 25°C
Ambient Relative Humidity:	48% to 59%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Product Information

2.1 Application Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.2 Manufacturer Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.3 Factory Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.4 General Description of Equipment under Test (EUT)

EUT Name	Smart Phone
Under Test Model Name	A55AM
Sample No.	BTFSN240531014/4 E1-E4

2.5 Equipment under Test Ancillary Equipment

Ancillary Equipment 1	Rechargeable Battery	
	Capacity	2000mAh
	Rated Voltage	3.7V

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EGPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/12/25/26/66/71 TDD LTE Band 41 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40) BT (EDR+BLE)
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 12	TX: 698 ~ 716 MHz	RX: 728 ~ 746 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26 part 90	TX: 814.7 ~ 823.3 MHz	RX: 859.7 ~ 868.3 MHz
	LTE Band 26 part 22	TX: 824.7 ~ 848.3 MHz	RX: 869.7 ~ 893.3 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2200 MHz
	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	LTE Band 41	2496 ~ 2690 MHz	
	802.11b/g/n(HT20/40)	2412 ~ 2462 MHz 2422 ~ 2452 MHz	
802.11a /802.11n(HT20/40) /802.11ac(VHT20/40)	5150 ~ 5250 MHz 5725 ~ 5850 MHz		
Bluetooth	2402 ~ 2480 MHz		
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna BT: PIFA Antenna		
Hotspot Function	Support		
Power Reduction	Not Support		
Exposure Category	General Population/Uncontrolled exposure		
EUT Stage	Portable Device		
Product	Type		
	<input type="checkbox"/> Production unit	<input checked="" type="checkbox"/> Identical prototype	

3. Summary of Test Results

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	IEC/IEEE 62209-1528: 2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
3	IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
4	KDB447498 D04	Interim General RF Exposure Guidance v01
5	KDB865664 D01	SAR measurement 100MHz to 6GHz v01r04
6	KDB865664 D02	RF Exposure Reporting v01r02
7	KDB941225 D01	3G SAR Procedures v03r01
8	KDB941225 D05	SAR for LTE Devices v02r05
9	KDB248227 D01	802.11 Wi-Fi SAR v02r02
10	KDB941225 D06	Hotspot Mode v02r01
11	KDB648474 D04	Handset SAR v01r03
12	KDB690783 D01	SAR Listings on Grant v01r03

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

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

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

The maximum results of Specific Absorption Rate (SAR) found during test as follows:

<Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
Head 1-g SAR (0 mm Gap)	GSM 850	0.440	PCE	0.777
	GSM 1900	0.059		
	WCDMA Band II	0.362		
	WCDMA Band IV	0.768		
	WCDMA Band V	0.397		
	LTE Band 2	0.439		
	LTE Band 4	0.131		
	LTE Band 5	0.320		
	LTE Band 12	0.349		
	LTE Band 25	0.392		
	LTE Band 26 part 90	0.190		
	LTE Band 26 part 22	0.243		
	LTE Band 41	0.069		
	LTE Band 66	0.777		
	LTE Band 71	0.243		
	WLAN 2.4 GHz	0.371		
WLAN 5.2 GHz	0.760	NII		
WLAN 5.8 GHz	0.499	DSS		
Bluetooth	0.055			
Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
Hotspot(Body) 1-g SAR (10 mm Gap)	GSM 850	0.737	PCE	1.183
	GSM 1900	0.185		
	WCDMA Band II	0.491		
	WCDMA Band IV	1.183		
	WCDMA Band V	0.320		
	LTE Band 2	0.408		
	LTE Band 4	1.013		
	LTE Band 5	0.334		
	LTE Band 12	0.325		
	LTE Band 25	0.384		
	LTE Band 26 part 90	0.173		
	LTE Band 26 part 22	0.220		
	LTE Band 41	0.365		
	LTE Band 66	1.012		
	LTE Band 71	0.252		
	WLAN 2.4 GHz	0.198		
WLAN 5.2 GHz	0.186	NII		
WLAN 5.8 GHz	0.192			

This device is in compliance with Specific Absorption Rate(SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC47 CFR part 2(2.1093) and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEC/IEEE 62209-1528: 2020.

<Highest Reported Simultaneous SAR>

Exposure Position	Simultaneous Configuration	Highest Reported Simultaneous Transmission SAR (W/kg)	Limit (W/kg)	Verdict
Head 1-g SAR (0 mm Gap)	LTE Band 66 + 5G WIFI	1.537	1.6	Pass
Hotspot(Body) 1-g SAR (10 mm Gap)	WCDMA Band IV + 2.4G WIFI	1.355	1.6	Pass

3.4 Test Uncertainty

3.4.1 Measurement uncertainty evaluation for SAR test

Measurement uncertainty evaluation for SAR test (300MHz to 6GHz)

Uncertainty Component	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10 g Ui (+-%)	Vi veff
Measurement System								
Probe calibration	5.8	N	1	1	1	5.80	5.80	∞
Axial Isotropy	3.5	R	√3	√0.5	√0.5	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	√3	√0.5	√0.5	2.41	2.41	∞
Boundary effect	1.0	R	√3	1	1	0.58	0.58	∞
Linearity	4.7	R	√3	1	1	2.71	2.71	∞
System detection limits	1.0	R	√3	1	1	0.58	0.58	∞
Modulation response	3.0	R	√3	1	1	1.73	1.73	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	√3	1	1	0.00	0.00	∞
Integration Time	1.4	R	√3	1	1	0.81	0.81	∞
RF ambient Conditions - Noise	3.0	R	√3	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	3.0	R	√3	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	1.4	R	√3	1	1	0.81	0.81	∞
Probe positioning with respect to Phantom Shell	1.4	R	√3	1	1	0.81	0.81	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.3	R	√3	1	1	1.33	1.33	∞
Test sample Related								
Test sample positioning	2.6	N	1	1	1	2.60	2.60	11
Device Holder Uncertainty	3.0	N	1	1	1	3.00	3.00	7
Output power Variation - SAR drift measurement	5.0	R	√3	1	1	2.89	2.89	∞
SAR scaling	2.0	R	√3	1	1	1.15	1.15	∞
Phantom and Tissue Parameters								
Phantom Shell Uncertainty - Shape, Thickness and Permittivity	4	R	√3	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviation in permittivity and conductivity	2.0	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity measurement	4.0	N	1	0.78	0.71	3.12	2.84	5
Liquid permittivity measurement	5.0	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity - Temperature Uncertainty	2.5	R	√3	0.78	0.71	1.13	1.02	∞
Liquid permittivity - Temperature Uncertainty	2.5	R	√3	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.47	10.34	
Expanded Uncertainty (95% Confidence interval)		k				20.95	20.69	

* This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.4.2 Measurement uncertainty evaluation for system check

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10 g)	1g Ui (+- %)	10 g Ui (+- %)	Vi veff
Measurement System								
Probe calibration	5.8	N	1	1	1	5.80	5.80	∞
Axial Isotropy	3.5	R	√3	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	√3	0	0	0.00	0.00	∞
Boundary effect	1	R	√3	1	1	0.58	0.58	∞
Linearity	4.7	R	√3	1	1	2.71	2.71	∞
System detection limits	1	R	√3	1	1	0.58	0.58	∞
Modulation response	0	N	√3	0	0	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	√3	0	0	0.00	0.00	∞
Integration Time	1.4	R	√3	0	0	0.00	0.00	∞
RF ambient Conditions - Noise	3	R	√3	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	3	R	√3	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	1.4	R	√3	1	1	0.81	0.81	∞
Probe positioning with respect to Phantom Shell	1.4	R	√3	1	1	0.81	0.81	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.3	R	√3	1	1	1.33	1.33	∞
Dipole								
Deviation of experimental source from numerical source	5	N	1	1	1	5.00	5.00	∞
Input Power and SAR drift measurement	0.5	R	√3	1	1	0.29	0.29	∞
Dipole Axis to Liquid Dist.	2.0	R	√3	1	1	1.15	1.15	∞
Phantom and Tissue Parameters								
Phantom Shell Uncertainty - Shape, Thickness and Permittivity	4	R	√3	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviation in permittivity and conductivity	2.0	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity measurement	4	N	1	0.78	0.71	3.12	2.84	5
Liquid permittivity measurement	5.0	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity - Temperature Uncertainty	2.5	R	√3	0.78	0.71	1.13	1.02	∞
Liquid permittivity - Temperature Uncertainty	2.5	R	√3	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.16	10.03	
Expanded Uncertainty (95% Confidence interval)		k				20.32	20.06	

4. Measurement System

4.1 Specific Absorption Rate (SAR) Definition

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

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

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

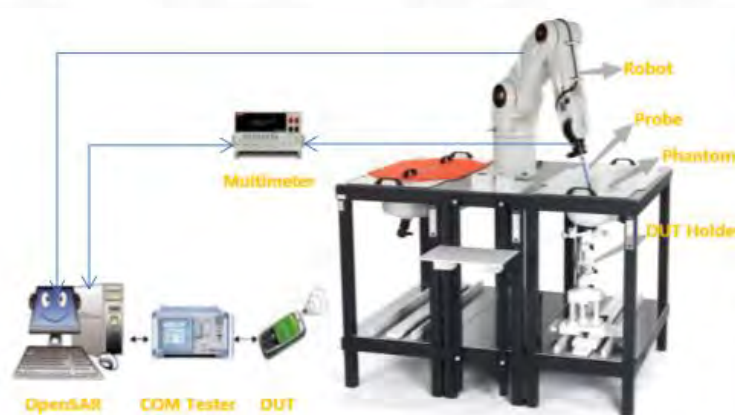
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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

4.2 MVG SAR System

4.2.1 SAR system diagram



4.2.2 Robot



- A standard high precision 6-axis robot (Denso) with teaches pendant with Scanning System
- It must be able to scan all the volume of the phantom to evaluate the tridimensional distribution of SAR.
 - Must be able to set the probe orthogonal of the surface of the phantom ($\pm 30^\circ$).
 - Detects stresses on the probe and stop itself if necessary to keep the integrity of the probe.

4.2.3 E-Field Probe

For the measurements, the Specific Dosimetric SSE2 E-Field Probe with following specifications is used:

- Dynamic range: 0.01-100 W/kg
- Tip diameter: 2mm for SSE2
- Distance between probe tip and sensor centre: 1mm for SSE2
- Distance between sensor centre and the inner phantom surface: 2mm for $f \geq 4\text{GHz}$.
- Probe linearity: $< 0.25\text{dB}$.
- Axial Isotropy: $< 0.25\text{dB}$.
- Spherical Isotropy: $< 0.50\text{dB}$.
- Calibration range: 150 to 6000 MHz for head & body simulating liquid
- Angle between probe axis (evaluation axis) and surface normal line: less than 20° .



4.2.4 Phantoms

SAM Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The probe scanning of the E-Field is done in the 2 halves of the normalized head. The normalized shape of the phantom corresponds to the dimensions of 90% of an adult head size. It enables the dosimetric evaluation of left and right-hand phone usage and includes an additional flat phantom part for the simplified body performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



SAM Phantom

The thickness of the phantom amounts to $2\text{ mm} \pm 0.2\text{ mm}$. The materials for the phantom do not affect the radiation of the device under test (DUT) : $\epsilon_r' < 5$
The head is filled with tissue simulating liquid. The hand do not have to be modeled.

TWIN SAM phantom			
	Mechanical	Electrical	
Overall thickness	$2 \pm 0.2\text{ mm}$ (except ear area)	Relative permittivity	3.4
Dimensions	1000 mm(L) x 500 mm(W) x 200 mm(H)	Loss tangent	0.02
Maximum volume	27 L		
Material	Fiberglass based		

ELLIPTICAL Phantom

The phantom is for Body performance check filled with tissue-equivalent liquid to a depth of at least 150 mm, whose shell material is resistant to damage or reaction with tissue-equivalent liquid chemicals.

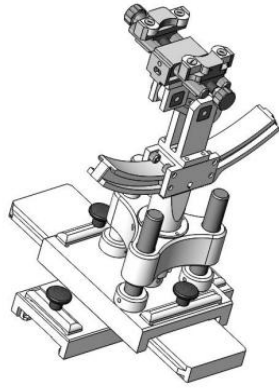


ELLI Phantom

The shape of the phantom is an ellipse with length $600\text{mm} \pm 5\text{mm}$ and width $400\text{mm} \pm 5\text{mm}$. The phantom shell is made of low-loss and low-permittivity material, having loss tangent $\tan \delta \leq 0.05$ and relative permittivity:
 $\epsilon_r' \leq 5$ for $f \leq 3\text{ GHz}$
 $3 \leq \epsilon_r' \leq 5$ for $f > 3\text{ GHz}$
 The thickness of the bottom-wall of the flat phantom is 2.0 mm with a tolerance of $\pm 0.2\text{ mm}$.

Technical & mechanical characteristics	
Shell thickness	$2\text{ mm} \pm 0.2\text{ mm}$
Filling volume	25 L
Dimensions	600 mm x 400 mm x 200mm
Permittivity	4.4
Loss tangent	0.017

4.2.5 Device Holder



System Material	Permittivity	Loss tangent
Delrin	3.7	0.005

(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
PMMA	2.9	0.028

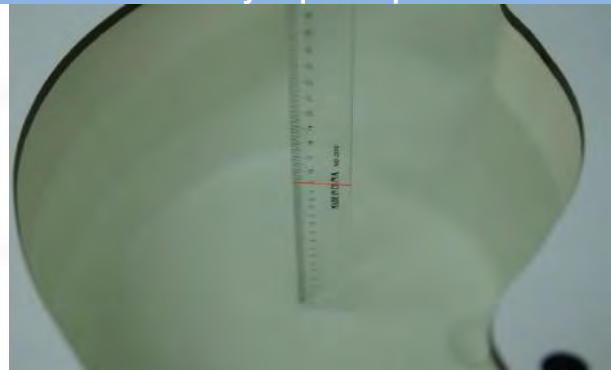
4.2.6 Simulating Liquid

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

Head Liquid Depth



Body Liquid Depth



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

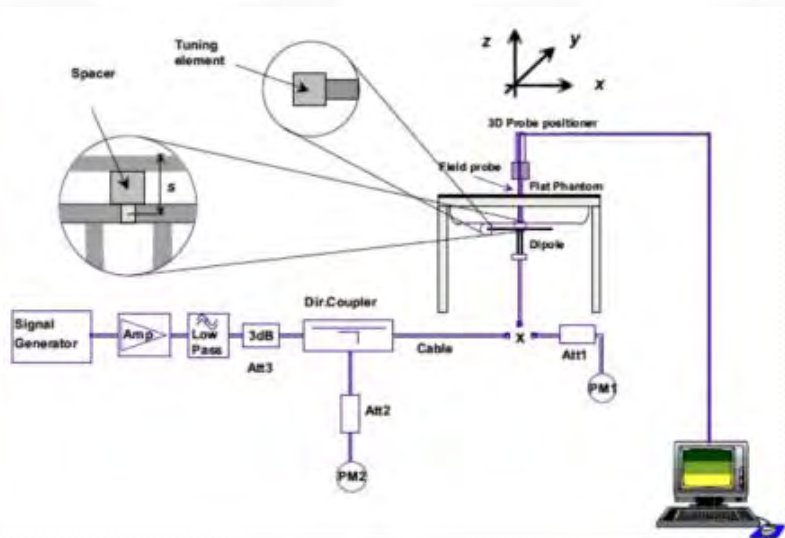
Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	78.60	21.40			/		5.30	49.00
5800	78.50	21.40			0.1		6.00	48.20

5. System Verification

5.1 Purpose of System Check

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

5.2 System Check Setup



6. TEST POSITION CONFIGURATIONS

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

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEC IEEE 62209-1528:2020 using the SAM phantom illustrated as below.

6.1.1 Definition of the cheek position

The cheek position is established using steps a) to j) as follows.

- (a) Configure the DUT for voice operation, if necessary. For example, for a DUT with a flip.a)swivel, or slide cover piece, open the cover if this is consistent with voice operation. If theDUT can also be used with the cover closed, both configurations shall be tested.
- (b) Define two imaginary lines on the DUT, the vertical centreline and the horizontal linerelative to the DUT in vertical orientation as shown in Figure 15.
- (c) The vertical centreline passes through two points on the front side of the DUT: themidpoint of the width w of the DUT at the level of the acoustic output (Point A inFigure 15), and the midpoint of the width w_p at the bottom of the DUT (Point B). Thehorizontal line is perpendicular to the vertical centerline, and passes through the centre ofthe acoustic output (Figure 15). The two lines intersect at Point A. Note that for manyDUTs, Point A coincides with the centre of the acoustic output. However, the acousticoutput could be located elsewhere on the horizontal line. Also note that the verticacentreline is not necessarily parallel to the front face of the DUT, especially for clamshellDUTs,DUTs with flip cover pieces, and other irregularly shaped DUTs.
- (d) Position the DUT close to the surface of the phantom such that Point A is on the (virtualextension of the line passing through points RE (right-ear ear reference point) and LEleft-ear ear reference point) on the phantom (see Figure 16a) and Figure 16b)). The planedetermined by the vertical centreline and the horizontal line of the DUT shall be parallel tothe sagittal plane of the phantom.
- (e) Translate the DUT towards the phantom along the line passing through RE and LE untilthe DUT touches the ear (see Figure 16c)).
- (f) Rotate the DUT around the (virtual) LE-RE Line until the DUT vertical centreline is in thef)reference plane(see Figure 16d)).
- (g) Rotate the DUT around its vertical centreline until the plane established by the DUTgvertical centreline and horizontal line is parallel to the N-F line (see Annex G), and thentranslate the DUT towards the phantom along the LE-RE line until DUT Point A touchesthe ear at the ERP (ear reference point) (see Figure 16e))
- (h) While keeping Point A on the line passing through RE and LE and maintaining the DUT incontact with the pinna, rotate the DUT about the N-F line until any point on the DUT is incontact with a phantom point below the pinna (cheek) (see Figure 16f)). The physicaangles of rotation shall be documented.
- (i) While keeping DUT Point A in contact with the ERP rotate the DUT around a lineperpendicular to the plane established by the DUT vertical centreline and horizontal lineand passing through DUT Point A, until the DUT vertical centreline is in the referenceplane(see Figure 16g)).

- (j) Verify that the cheek position is correct as follows:
- 1) the N-F line is in the plane established by the DUT vertical centreline and horizontal line;
 - 2) DUT Point A touches the pinna at the ERP
 - 3) the DUT vertical centreline is in the reference plane.

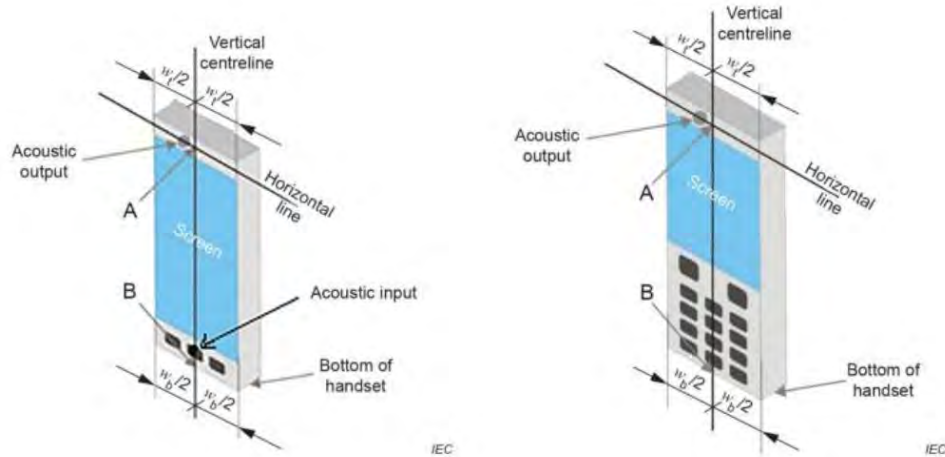
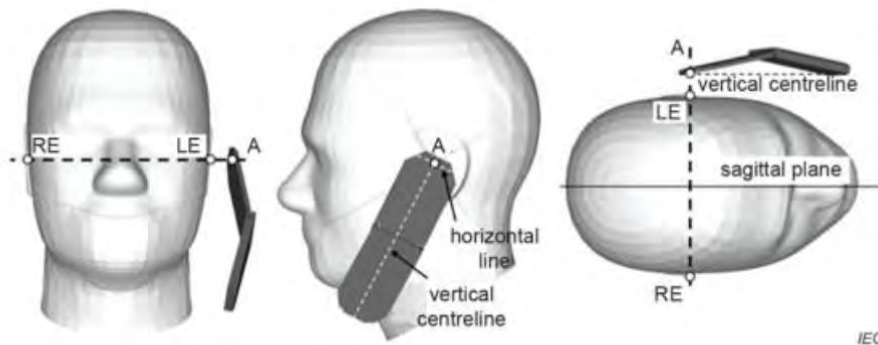


Figure 15 - Vertical and horizontal reference lines and reference points A and B on two example device types: a full touch-screen smart phone (left) and a DUT with a keypad (right)

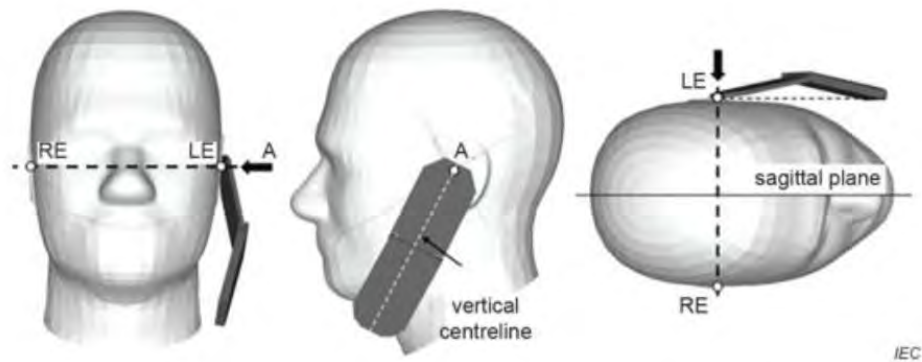


NOTE The reference points for the right-ear ear reference point (RE), left-ear ear reference point (LE), and mouth (M), which establish the reference plane for DUT positioning, are indicated. This device position shall be maintained for the sagittal phantom test set-up shown in Figure G.4.

a) Phone position 1 – cheek position

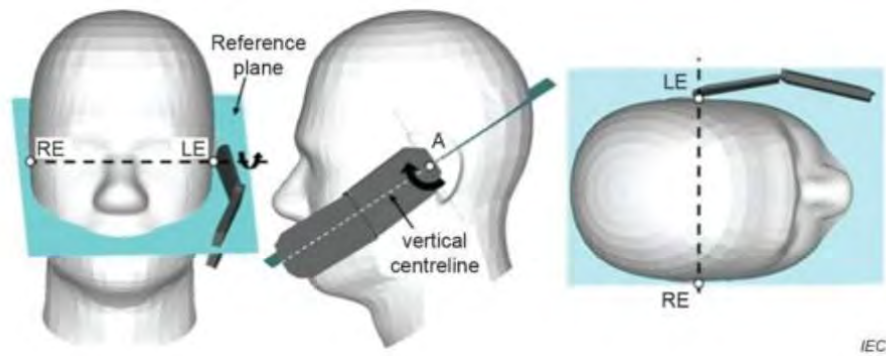


b) One possible DUT position against the head after applying 7.2.4.2.2 c)



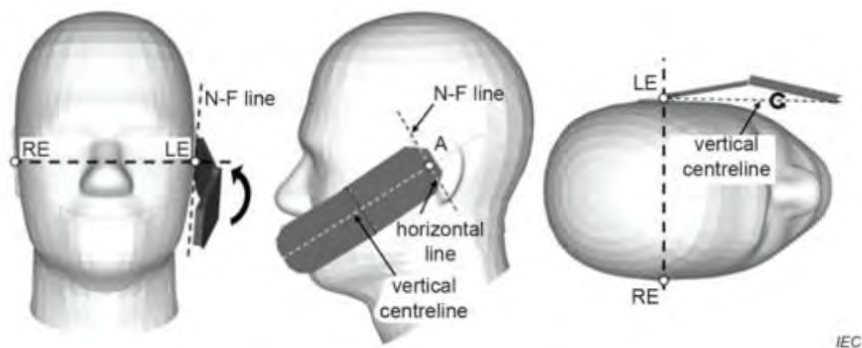
NOTE The black arrows show the direction of translation of the DUT for 7.2.4.2.2 d).

c) DUT position after applying 7.2.4.2.2 d)



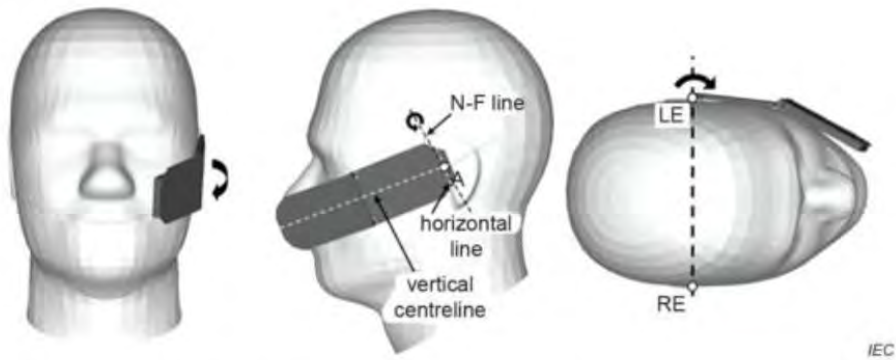
NOTE The curved black arrows show the direction of rotation of the DUT for 7.2.4.2.2 e).

d) DUT position after applying 7.2.4.2.2 e)



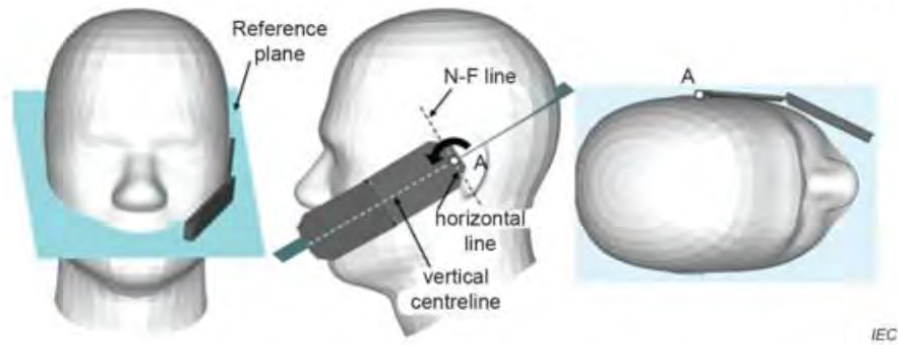
NOTE The curved black arrows show the direction of rotation of the DUT for 7.2.4.2.2 f).

e) DUT position after applying 7.2.4.2.2 f)



NOTE The curved black arrows show the direction of rotation of the DUT for 7.2.4.2.2 g)

f) DUT position after applying 7.2.4.2.2 g)



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NOTE The curved black arrows show the direction of rotation of the DUT for 7.2.4.2.2 h).

g) DUT position after applying 7.2.4.2.2 h)

Figure 16 – Cheek position of the DUT on the left side of SAM where the device position shall be maintained for the phantom test set-up

6.1.2 Definition of the tilt position

The tilt position is established using steps a) through d) as follows.

- (a) Repeat steps a) through j) of 7.2.4.2.2 to place the DUT in the cheek position a) (see Figure 16).
- (b) While maintaining the orientation of the DUT, move the DUT away from the pinna along b) the line passing through RE and LE far enough to allow a rotation of the DUT away from the cheek by 15°.
- (c) Rotate the DUT around the horizontal line by 15° (see Figure 17).
- (d) While maintaining the orientation of the DUT, move the DUT towards the phantom on a line passing through RE and LE until any part of the DUT touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g. an extended antenna in contact with the back of the head phantom, the angle of the DUT shall be reduced. In this case, the tilt position is obtained if any part of the DUT is in contact with the pinna and a second point on the DUT is in contact with the phantom, e.g. the antenna in contact with the back of the head.



Key

- M Mouth reference point
- LE Left-ear ear reference point
- RE Right-ear ear reference point

This device position shall be maintained for the phantom test set-up.

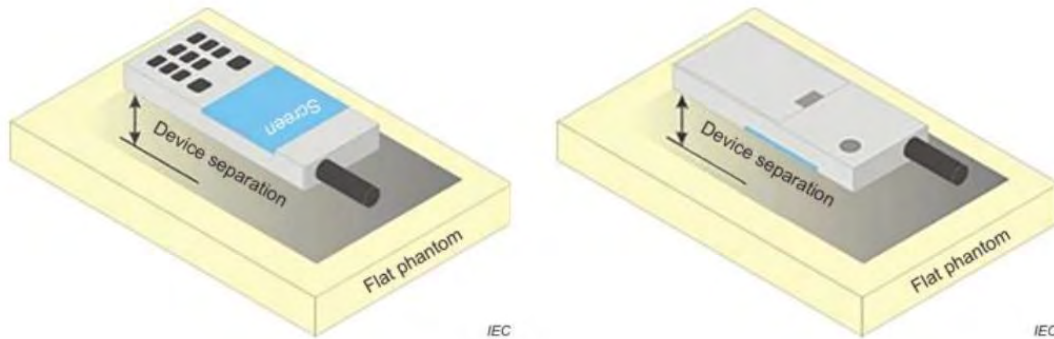
Figure 17 – Tilt position of the DUT on the left side of SAM

6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

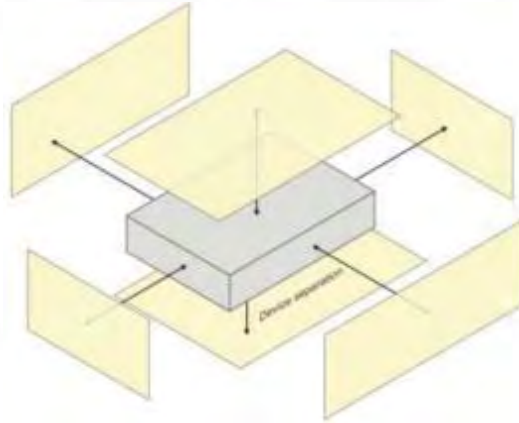
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

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



6.3 Hotspot Mode Exposure Position Conditions

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



6.4 Product Specific 10g Exposure Consideration

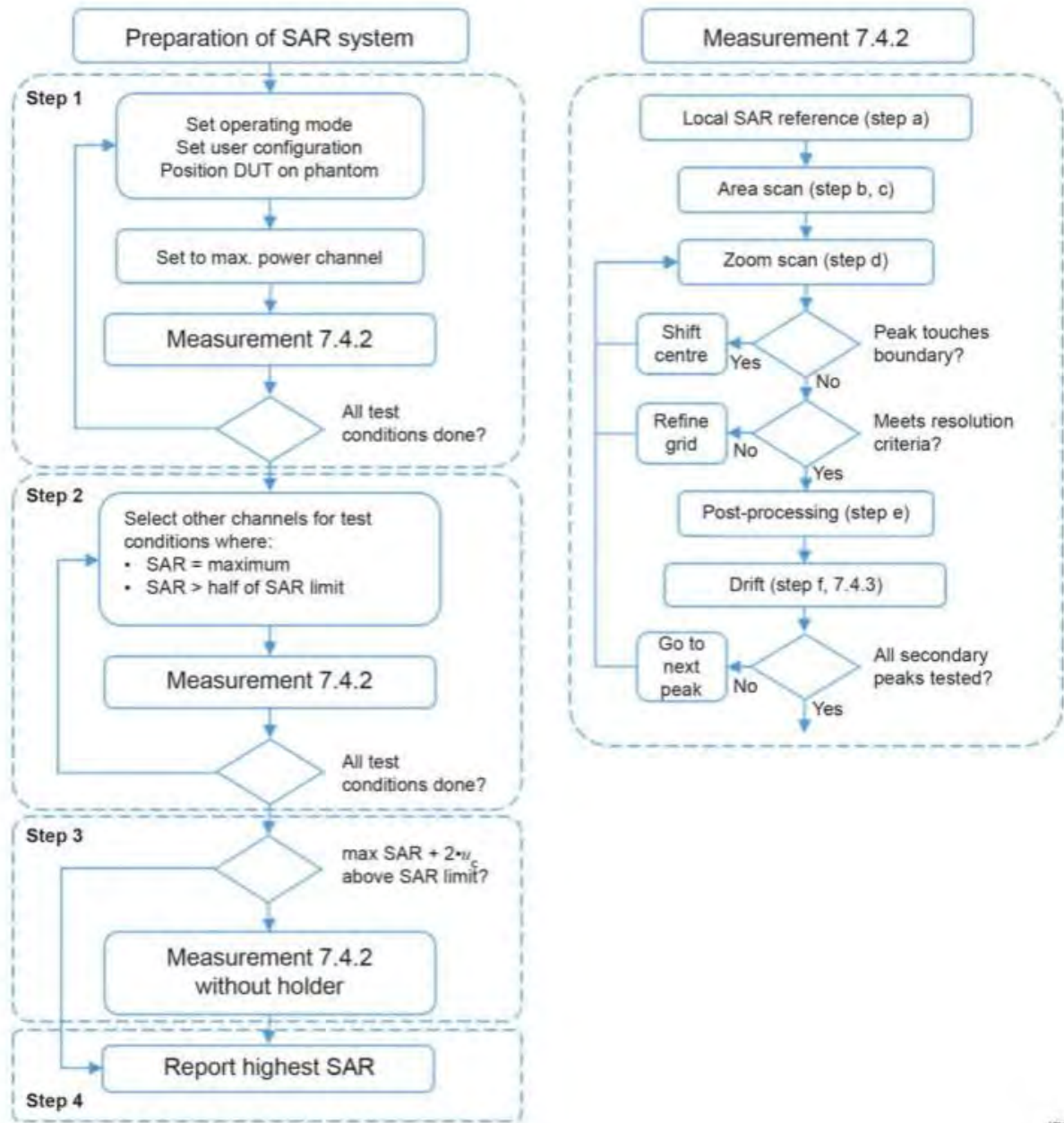
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

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

7. Measurement Procedure

7.1 Measurement Process Diagram

Body SAR



IEC

7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEC/IEEE 62209-1528: 2020.

Table 3 – Area scan parameters

Parameter	DUT transmit frequency being tested	
	$f \leq 3$ GHz	3 GHz < $f \leq 10$ GHz
Maximum distance between the measured points (geometric centre of the sensors) and the inner phantom surface (z_{M1} in Figure 20 in mm)	5 ± 1	$\delta \ln(2)/2 \pm 0,5^a$
Maximum spacing between adjacent measured points in mm (see O.8.3.1) ^b	20, or half of the corresponding zoom scan length, whichever is smaller	$60/f$, or half of the corresponding zoom scan length, whichever is smaller
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20) ^c	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Tolerance in the probe angle	1°	1°

^a δ is the penetration depth for a plane-wave incident normally on a planar half-space.
^b See Clause O.8 on how Δx and Δy may be selected for individual area scan requirements.
^c The probe angle relative to the phantom surface normal is restricted due to the degradation in the measurement accuracy in fields with steep spatial gradients. The measurement accuracy decreases with increasing probe angle and increasing frequency. This is the reason for the tighter probe angle restriction at frequencies above 3 GHz.

Table 4 – Zoom scan parameters

Parameter	DUT transmit frequency being tested	
	$f \leq 3$ GHz	3 GHz < $f \leq 10$ GHz
Maximum distance between the closest measured points and the phantom surface (z_{M1} in Figure 20 and Table 3, in mm)	5	$\delta \ln(2)/2^a$
Maximum angle between the probe axis and the phantom surface normal (α in Figure 20)	5° (flat phantom only) 30° (other phantoms)	5° (flat phantom only) 20° (other phantoms)
Maximum spacing between measured points in the x - and y -directions (Δx and Δy , in mm)	8	$24/f^b$
For uniform grids: Maximum spacing between measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	5	$10/(f-1)$
For graded grids: Maximum spacing between the two closest measured points in the direction normal to the phantom shell (Δz_1 in Figure 20, in mm)	4	$12/f$
For graded grids: Maximum incremental increase in the spacing between measured points in the direction normal to the phantom shell ($R_z = \Delta z_2/\Delta z_1$ in Figure 20)	1,5	1,5
Minimum edge length of the zoom scan volume in the x - and y -directions (L_z in O.8.3.2, in mm)	30	22
Minimum edge length of the zoom scan volume in the direction normal to the phantom shell (L_n in O.8.3.2 in mm)	30	22
Tolerance in the probe angle	1°	1°

^a δ is the penetration depth for a plane-wave incident normally on a planar half-space.
^b This is the maximum spacing allowed, which might not work for all circumstances.

7.3 Measurement Procedure

The following steps are used for each test position

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

7.4 Area & Zoom Scan Procedure

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

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

8. Conducted RF Output Power

8.1 GSM

Mode: GSM850		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH128	CH190	CH251		CH128	CH190	CH251
			824.2MHz	836.6MHz	848.8MHz		824.2MHz	836.6MHz	848.8MHz
GSM		34.00	33.77	32.44	30.48	-9.03	24.74	23.41	21.45
GPRS (GMSK)	1Tx slot	34.00	33.87	32.55	30.60	-9.03	24.84	23.52	21.57
	2Tx slots	33.50	33.19	31.94	30.02	-6.02	27.17	25.92	24.00
	3Tx slots	31.50	31.48	30.34	28.45	-4.26	27.22	26.08	24.19
	4Tx slots	30.50	30.34	29.25	27.37	-3.01	27.33	26.24	24.36
EGPRS (8PSK)	1Tx slot	28.00	27.95	27.03	25.44	-9.03	18.92	18.00	16.41
	2Tx slots	27.00	26.98	26.11	24.44	-6.02	20.96	20.09	18.42
	3Tx slots	25.00	24.84	23.97	22.22	-4.26	20.58	19.71	17.96
	4Tx slots	24.50	23.88	24.03	21.06	-3.01	20.87	21.02	18.05
Mode: GSM1900		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH512	CH661	CH810		CH512	CH661	CH810
			1850.2MHz	1880.0MHz	1909.8MHz		1850.2MHz	1880.0MHz	1909.8MHz
GSM		27.00	23.82	24.06	26.83	-9.03	14.79	15.03	17.80
GPRS (GMSK)	1Tx slot	27.00	23.85	24.05	26.82	-9.03	14.82	15.02	17.79
	2Tx slots	26.50	23.15	23.39	26.13	-6.02	17.13	17.37	20.11
	3Tx slots	24.50	21.47	21.71	24.46	-4.26	17.21	17.45	20.20
	4Tx slots	23.50	20.40	20.63	23.37	-3.01	17.39	17.62	20.36
EGPRS (8PSK)	1Tx slot	25.00	21.87	22.60	24.97	-9.03	12.84	13.57	15.94
	2Tx slots	24.50	21.02	21.75	24.33	-6.02	15.00	15.73	18.31
	3Tx slots	23.00	19.35	20.06	22.66	-4.26	15.09	15.80	18.40
	4Tx slots	22.00	18.19	19.02	21.60	-3.01	15.18	16.01	18.59
Note: 1) Division Factors To average the power, the division factor is as follows: 1Tx-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB 2Tx-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB 3Tx-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB 4Tx-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB									

8.2 WCDMA

Mode		Maximum Tune-up(dBm)	WCDMA Band II		
			Conducted Power (dBm)		
			CH9262	CH9400	CH9538
RMC 12.2K		21.00	20.75	20.42	20.49
HSDPA	Subtest-1	19.00	18.64	18.27	18.31
	Subtest-2	19.00	18.56	18.29	18.32
	Subtest-3	19.00	18.60	18.28	18.31
	Subtest-4	19.00	18.57	18.27	18.30
HSUPA	Subtest-1	16.50	16.49	15.91	16.20
	Subtest-2	16.50	16.28	16.14	15.68
	Subtest-3	16.50	16.23	15.66	16.19
	Subtest-4	16.50	16.24	15.91	16.21
	Subtest-5	17.00	16.52	16.15	16.02
Mode		Maximum Tune-up(dBm)	WCDMA Band IV		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
RMC 12.2K		25.50	23.91	25.27	25.07
HSDPA	Subtest-1	23.50	21.80	23.08	22.81
	Subtest-2	23.50	21.73	23.06	22.81
	Subtest-3	23.50	21.80	23.10	22.79
	Subtest-4	23.50	21.78	23.07	22.78
HSUPA	Subtest-1	21.00	19.84	20.96	20.76
	Subtest-2	21.00	19.65	20.95	20.24
	Subtest-3	20.50	19.31	20.43	20.23
	Subtest-4	21.00	19.62	20.96	20.76
	Subtest-5	20.50	19.32	20.49	20.24
Mode		Maximum Tune-up(dBm)	WCDMA Band V		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
RMC 12.2K		24.00	23.64	22.52	21.28
HSDPA	Subtest-1	21.50	21.46	20.32	19.03
	Subtest-2	21.50	21.43	20.32	19.01
	Subtest-3	21.50	21.46	20.34	19.02
	Subtest-4	21.50	21.47	20.33	19.00
HSUPA	Subtest-1	19.50	19.42	18.26	17.01
	Subtest-2	19.50	19.22	18.08	16.51
	Subtest-3	19.50	19.17	17.74	16.53
	Subtest-4	19.50	19.23	18.25	17.02
	Subtest-5	19.50	19.18	18.08	16.77
Per KDB 941225 D01, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/2$ dB higher than the primary mode (RMC12.2kbps) 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.					

8.3 LTE

Band 2

LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
1.4MHz	QPSK	1	0	20.50	20.36	19.89	20.05
			2	21.00	20.50	20.03	20.04
			5	20.50	20.38	19.91	19.95
		3	0	20.50	20.46	20.00	19.99
			2	20.50	20.48	20.00	20.06
			3	20.50	20.48	19.97	20.03
	16QAM	6	0	19.50	19.43	18.95	19.03
			0	19.50	19.39	19.05	18.94
			2	19.50	19.47	19.15	18.98
		1	5	19.50	19.40	19.03	18.82
			0	20.00	19.56	18.99	18.90
			2	20.00	19.55	19.05	18.96
3	3	20.00	19.53	18.99	18.80		
	6	0	18.50	18.39	17.99	17.81	
					18615	18900	19185
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	1851.5MHz	1880.0MHz	1908.5MHz
3MHz	QPSK	1	0	20.50	20.49	19.52	19.55
			7	21.00	20.59	19.65	19.62
			14	20.50	20.43	19.46	19.53
		8	0	19.50	19.42	18.61	18.55
			4	19.50	19.42	18.59	18.64
			7	19.50	19.42	18.55	18.60
	15	0	19.50	19.34	18.58	18.58	
	16QAM	1	0	19.50	19.12	18.75	19.10
			7	19.50	19.11	18.86	19.22
			14	19.50	18.94	18.68	19.05
		8	0	18.50	18.03	17.54	17.64
			4	18.50	18.04	17.59	17.74
			7	18.00	17.99	17.52	17.72
		15	0	18.00	17.99	17.53	17.62
						18625	18900
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	1852.5MHz	1880.0MHz
5MHz	QPSK	1	0	20.00	19.89	19.53	19.56
			13	20.00	19.96	19.58	19.70
			24	20.00	19.80	19.47	19.60
		12	0	19.00	18.92	18.59	18.60
			6	19.00	18.96	18.66	18.63
			13	19.00	18.95	18.60	18.64
	25	0	19.00	18.94	18.59	18.61	
	16QAM	1	0	19.00	18.97	18.74	18.40
			13	19.50	19.05	18.83	18.47
			24	19.00	18.94	18.73	18.40
		12	0	18.00	17.91	17.63	17.60
			6	18.00	17.97	17.63	17.65
			13	18.00	17.90	17.57	17.63
		25	0	18.00	17.97	17.55	17.64

LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)					
Bandwidth	Modulation	RB allocation	RB offset		18650	18900	19150			
					1855.0MHz	1880.0MHz	1905.0MHz			
10MHz	QPSK	1	0	20.00	19.94	19.57	19.43			
			25	20.50	20.04	19.76	19.70			
			49	20.00	19.77	19.53	19.56			
		25	0	19.00	18.95	18.67	18.70			
			13	19.00	18.93	18.67	18.64			
			25	19.00	18.89	18.68	18.72			
	50	0	19.00	18.90	18.61	18.68				
		16QAM	1	0	19.50	18.96	18.76	19.06		
				25	19.50	19.06	18.90	19.31		
	49			19.50	18.80	18.72	19.14			
	25	16QAM	25	0	18.00	18.00	17.65	17.75		
				13	18.00	17.98	17.68	17.67		
				25	18.00	17.98	17.65	17.76		
	50	16QAM	50	0	18.00	17.91	17.62	17.75		
				Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18675	18900
1857.5MHz									1880.0MHz	1902.5MHz
15MHz	QPSK	1	0	20.00	19.80	19.52	19.33			
			38	20.50	19.80	19.59	20.01			
			74	20.00	19.67	19.41	19.98			
		36	0	19.50	18.93	18.66	19.02			
			18	19.50	18.88	18.64	19.01			
			39	19.50	18.82	18.63	19.05			
	75	0	19.50	18.86	18.70	19.15				
		16QAM	1	0	19.50	19.22	18.72	19.47		
				38	20.00	19.19	18.81	19.68		
	74			20.00	19.03	18.64	19.65			
	36	16QAM	36	0	18.50	17.87	17.66	18.20		
				18	18.50	17.85	17.65	18.21		
				39	18.50	17.80	17.65	18.22		
	75	16QAM	75	0	18.50	17.84	17.65	18.21		
				Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18700	18900
1860.0MHz									1880.0MHz	1900.0MHz
20MHz	QPSK	1	0	20.50	20.24	19.98	19.84			
			50	21.00	20.50	20.35	20.22			
			99	20.50	20.04	19.82	19.94			
		50	0	19.50	19.39	19.28	19.17			
			25	19.50	19.36	19.19	19.11			
			50	19.50	19.34	19.16	19.11			
	100	0	19.50	19.39	19.24	19.14				
		16QAM	1	0	20.00	19.51	19.52	19.01		
				50	20.00	19.71	19.87	19.44		
	99			19.50	19.30	19.36	19.09			
	50	16QAM	50	0	18.50	18.41	18.35	18.27		
				25	18.50	18.35	18.23	18.12		
				50	18.50	18.39	18.25	18.15		
	100	16QAM	100	0	18.50	18.42	18.27	18.16		

Band 4

LTE-FDD Band 4				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		19957	20175	20393	
					1710.7MHz	1732.5MHz	1754.3MHz	
1.4MHz	QPSK	1	0	25.00	23.56	24.64	24.01	
			2	25.00	23.69	24.51	24.11	
			5	24.50	23.60	24.37	23.98	
		3	0	24.50	23.49	24.43	24.16	
			2	25.00	23.54	24.50	24.18	
			3	24.50	23.53	24.47	24.10	
	16QAM	6	0	23.50	22.60	23.44	23.12	
			1	0	23.50	22.26	23.42	23.23
				2	24.00	22.40	23.54	23.35
		5		23.50	22.36	23.46	23.22	
		3	0	24.00	22.55	23.58	23.16	
			2	24.00	22.65	23.60	23.20	
3	24.00		22.66	23.60	23.19			
6	0	22.50	21.44	22.39	22.15			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175	20385	
					1711.5MHz	1732.5MHz	1753.5MHz	
3MHz	QPSK	1	0	24.50	23.02	24.27	24.04	
			7	24.50	23.25	24.47	24.15	
			14	24.50	23.21	24.31	23.96	
		8	0	23.50	22.03	23.40	23.11	
			4	23.50	22.12	23.43	23.10	
			7	23.50	22.15	23.41	23.05	
	15	0	23.50	22.04	23.33	23.08		
	16QAM	1	0	24.00	21.88	23.51	23.63	
			7	24.00	22.14	23.66	23.76	
			14	24.00	22.12	23.52	23.57	
		8	0	22.50	21.02	22.35	22.27	
			4	22.50	21.14	22.40	22.27	
			7	22.50	21.14	22.37	22.22	
		15	0	22.50	21.02	22.37	22.17	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19976	20175
1712.5MHz							1732.5MHz	1752.5MHz
5MHz	QPSK	1	0	24.50	22.79	24.16	23.92	
			13	24.50	23.20	24.30	24.00	
			24	24.50	23.25	24.15	23.80	
		12	0	23.50	22.01	23.23	23.03	
			6	23.50	22.13	23.36	23.06	
			13	23.50	22.20	23.35	22.96	
	25	0	23.50	22.12	23.33	23.03		
	16QAM	1	0	24.00	21.79	23.50	22.83	
			13	24.00	22.22	23.59	22.89	
			24	23.50	22.34	23.44	22.72	
		12	0	22.50	20.93	22.29	22.06	
			6	22.50	21.11	22.40	22.07	
			13	22.50	21.17	22.43	21.99	
		25	0	22.50	21.11	22.31	22.04	

Band 5

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
1.4MHz	QPSK	1	0	23.00	22.91	21.45	19.88
			2	23.00	22.97	21.46	19.93
			5	23.00	22.81	21.28	19.76
		3	0	23.00	22.89	21.42	19.93
			2	23.00	22.88	21.40	19.87
			3	23.00	22.84	21.36	19.85
	6	0	22.00	21.86	20.36	18.92	
	16QAM	1	0	22.00	21.82	20.35	19.02
			2	22.00	21.88	20.39	19.07
			5	22.00	21.73	20.27	18.90
		3	0	22.00	21.95	20.46	18.90
			2	22.00	21.93	20.42	18.89
			3	22.00	21.84	20.37	18.80
	6	0	21.00	20.81	19.31	17.92	
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	23.00	22.97	21.46	20.11
			7	23.00	22.90	21.44	20.09
			14	23.00	22.62	21.15	19.76
		8	0	22.00	21.80	20.41	19.04
			4	22.00	21.72	20.36	18.97
			7	22.00	21.63	20.26	18.84
	15	0	22.00	21.68	20.32	18.94	
	16QAM	1	0	22.00	21.89	20.62	19.64
			7	22.00	21.89	20.57	19.63
			14	22.00	21.51	20.28	19.28
		8	0	21.00	20.85	19.39	18.20
			4	21.00	20.76	19.36	18.16
			7	21.00	20.69	19.24	18.03
		15	0	21.00	20.74	19.30	18.02

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
5MHz	QPSK	1	0	23.00	22.79	21.49	20.29
			13	23.00	22.62	21.34	20.15
			24	22.50	22.22	20.97	19.73
		12	0	22.00	21.63	20.41	19.26
			6	22.00	21.60	20.36	19.14
			13	21.50	21.40	20.15	18.84
	25	0	22.00	21.54	20.32	19.05	
	16QAM	1	0	22.00	21.82	20.73	19.13
			13	22.00	21.63	20.56	19.02
			24	21.50	21.28	20.20	18.58
		12	0	21.00	20.67	19.52	18.25
			6	21.00	20.57	19.43	18.21
			13	20.50	20.40	19.24	17.87
		25	0	21.00	20.55	19.32	18.09

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600	
					829.0MHz	836.5MHz	844.0MHz	
10MHz	QPSK	1	0	23.00	22.83	21.83	20.93	
			25	22.50	22.45	21.45	20.53	
			49	22.00	21.73	20.71	19.77	
		25	0	22.00	21.52	20.66	19.75	
			13	21.50	21.27	20.37	19.43	
			25	21.50	21.03	20.13	19.07	
	50	0	21.50	21.27	20.34	19.45		
		16QAM	1	0	22.00	21.75	20.98	20.43
				25	21.50	21.40	20.57	20.06
	49			21.00	20.66	19.87	19.35	
	25	16QAM	25	0	21.00	20.58	19.66	18.82
				13	20.50	20.35	19.39	18.49
				25	20.50	20.10	19.11	18.17
			50	0	20.50	20.29	19.39	18.48

Band 12

LTE-FDD Band 12				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		23017	23095	23173	
					699.7MHz	707.5MHz	715.3MHz	
1.4MHz	QPSK	1	0	22.00	21.96	21.89	21.32	
			2	22.50	22.04	22.01	21.43	
			5	22.00	21.92	21.90	21.33	
		3	0	22.00	21.96	21.84	21.31	
			2	22.00	21.98	21.93	21.35	
			3	22.00	21.92	21.85	21.30	
	6	0	21.50	21.02	20.94	20.42		
		16QAM	1	0	21.00	20.83	20.78	20.39
				2	21.00	20.92	20.88	20.48
	5			21.00	20.80	20.78	20.35	
	3		0	21.50	21.05	20.86	20.24	
			2	21.50	21.09	20.85	20.23	
			3	21.50	21.04	20.62	20.22	
	6	0	20.00	19.91	19.76	19.32		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095	23165	
					700.5MHz	707.5MHz	714.5MHz	
3MHz	QPSK	1	0	21.50	21.43	21.39	21.30	
			7	22.00	21.56	21.51	21.50	
			14	21.50	21.39	21.34	21.33	
		8	0	20.50	20.38	20.35	20.35	
			4	20.50	20.42	20.36	20.39	
			7	20.50	20.35	20.32	20.31	
	15	0	20.50	20.33	20.29	20.29		
		16QAM	1	0	21.00	20.80	20.32	20.41
				7	21.00	20.95	20.44	20.56
	14			21.00	20.79	20.24	20.37	
	8		0	19.50	19.45	19.31	19.26	
			4	19.50	19.49	19.35	19.26	
			7	19.50	19.45	19.28	19.20	
	15	0	19.50	19.33	19.26	19.17		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155	
					701.5MHz	707.5MHz	713.5MHz	
5MHz	QPSK	1	0	21.50	21.32	21.22	21.22	
			13	21.50	21.44	21.37	21.38	
			24	21.50	21.28	21.19	21.23	
		12	0	20.50	20.34	20.27	20.27	
			6	20.50	20.38	20.30	20.31	
			13	20.50	20.36	20.25	20.21	
	25	0	20.50	20.37	20.24	20.25		
		16QAM	1	0	20.50	20.31	20.41	20.00
				13	20.50	20.46	20.47	20.15
	24			20.50	20.29	20.36	19.97	
	12		0	19.50	19.25	19.24	19.22	
			6	19.50	19.33	19.30	19.27	
			13	19.50	19.29	19.21	19.17	
	25	0	19.50	19.32	19.18	19.23		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23060	23095	23130
					704.0MHz	707.5MHz	711.0MHz	
10MHz	QPSK	1	0	21.50	21.40	21.29	21.31	
			25	22.00	21.53	21.50	21.46	
			49	21.50	21.38	21.29	21.34	
		25	0	20.50	20.35	20.29	20.36	
			13	20.50	20.35	20.34	20.35	
			25	20.50	20.38	20.26	20.33	
	50	0	20.50	20.36	20.27	20.32		
		16QAM	1	0	21.00	20.28	20.39	20.70
				25	21.00	20.50	20.55	20.91
	49			21.00	20.21	20.38	20.66	
	25		0	19.50	19.37	19.24	19.35	
			13	19.50	19.36	19.27	19.30	
			25	19.50	19.41	19.25	19.30	
	50	0	19.50	19.32	19.24	19.30		

Band 25

LTE-FDD Band 25				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		26047	26365	26683	
					1850.7MHz	1882.5MHz	1914.3MHz	
1.4MHz	QPSK	1	0	20.50	20.46	19.45	19.56	
			2	20.50	20.11	19.58	19.63	
			5	20.00	19.90	19.47	19.55	
		3	0	20.00	19.99	19.53	19.63	
			2	20.50	20.01	19.60	19.65	
			3	20.50	20.02	19.54	19.62	
	6	0	19.50	19.02	18.59	18.66		
		16QAM	1	0	19.00	18.97	18.67	18.58
				2	19.50	19.05	18.77	18.68
	5			19.00	19.00	18.67	18.54	
	3		0	19.50	19.14	18.59	18.86	
			2	19.50	19.14	18.63	18.94	
			3	19.50	19.10	18.64	18.86	
	6	0	18.00	17.94	17.58	17.66		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26055	26365	26675	
					1851.5MHz	1882.5MHz	1913.5MHz	
3MHz	QPSK	1	0	20.00	19.94	19.52	19.63	
			7	20.50	20.08	19.63	19.74	
			14	20.00	19.86	19.43	19.63	
		8	0	19.00	18.99	18.54	18.69	
			4	19.50	19.01	18.58	18.68	
			7	19.00	18.95	18.55	18.62	
	15	0	19.00	18.95	18.56	18.64		
	16QAM	1	0	19.50	19.16	19.13	18.68	
			7	19.50	19.27	19.26	18.76	
			14	19.50	19.05	19.05	18.62	
		8	0	18.00	17.96	17.70	17.71	
			4	18.00	17.96	17.73	17.73	
			7	18.00	17.90	17.69	17.65	
		15	0	18.00	17.91	17.60	17.69	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26065	26365
1852.5MHz							1882.5MHz	1912.5MHz
5MHz	QPSK	1	0	20.00	19.92	19.54	19.54	
			13	20.00	19.93	19.60	19.69	
			24	20.00	19.80	19.49	19.55	
		12	0	19.00	18.90	18.59	18.74	
			6	19.00	18.95	18.65	18.69	
			13	19.00	18.95	18.60	18.53	
	25	0	19.00	18.95	18.61	18.66		
	16QAM	1	0	19.50	19.03	18.81	18.40	
			13	19.50	19.04	18.92	18.61	
			24	19.00	18.90	18.78	18.47	
		12	0	18.00	17.91	17.60	17.72	
			6	18.00	17.98	17.68	17.72	
			13	18.00	17.95	17.64	17.59	
		25	0	18.00	17.96	17.59	17.66	

LTE-FDD Band 25				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26090	26365	26640
				1855.0MHz	1882.5MHz	1910.0MHz	
10MHz	QPSK	1	0	20.00	19.97	19.58	19.50
			25	20.50	20.10	19.74	19.81
			49	20.00	19.80	19.53	19.59
		25	0	19.00	18.99	18.65	18.68
			13	19.00	18.96	18.71	18.71
			25	19.00	18.92	18.67	18.53
	50	0	19.00	18.98	18.67	18.60	
	16QAM	1	0	19.50	18.99	18.76	19.12
			25	19.50	19.10	18.93	19.33
			49	19.50	18.83	18.74	19.18
		25	0	18.50	18.05	17.66	17.72
			13	18.50	18.03	17.73	17.72
			25	18.50	18.00	17.68	17.57
		50	0	18.50	18.04	17.68	17.62

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26115	26365	26615
					1857.5MHz	1882.5MHz	1907.5MHz
15MHz	QPSK	1	0	20.00	19.85	19.54	19.38
			38	20.00	19.85	19.61	19.57
			74	20.00	19.64	19.49	19.55
		36	0	19.00	18.92	18.67	18.64
			18	19.00	18.95	18.69	18.65
			39	19.00	18.85	18.68	18.63
	75	0	19.00	18.91	18.69	18.64	
	16QAM	1	0	19.50	19.24	18.73	18.95
			38	19.50	19.27	18.81	19.18
			74	19.50	19.07	18.67	19.15
		36	0	18.00	17.91	17.70	17.68
			18	18.00	17.90	17.67	17.70
			39	18.00	17.83	17.66	17.63
		75	0	18.00	17.84	17.67	17.64
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26140	26365
	1860.0MHz					1882.5MHz	1905.0MHz
20MHz	QPSK	1	0	20.00	19.66	19.44	19.21
			50	20.00	19.92	19.76	19.71
			99	19.50	19.39	19.33	19.42
		50	0	19.00	18.86	18.66	18.71
			25	19.00	18.86	18.66	18.67
			50	19.00	18.84	18.71	18.60
	100	0	19.00	18.87	18.72	18.68	
	16QAM	1	0	19.50	19.27	18.66	18.53
			50	20.00	19.50	18.95	19.07
			99	19.50	19.04	18.55	18.73
		50	0	18.00	17.84	17.73	17.71
			25	18.00	17.88	17.69	17.61
			50	18.00	17.78	17.68	17.61
		100	0	18.00	17.79	17.76	17.67

Band 26 Part90

LTE-FDD Band 26 Part90				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26697	26740	26783
				814.7MHz	819.0MHz	823.3MHz	
1.4MHz	QPSK	1	0	23.00	22.79	22.24	22.34
			2	23.00	22.89	22.36	22.36
			5	22.50	22.37	22.24	22.27
		3	0	22.50	22.36	22.37	22.36
			2	22.50	22.34	22.37	22.42
			3	22.50	22.31	22.36	22.38
	6	0	21.50	21.34	21.33	21.30	
	16QAM	1	0	21.50	21.42	21.27	21.29
			2	22.00	21.34	21.30	21.56
			5	21.50	21.20	21.27	21.49
		3	0	22.00	21.44	21.52	21.35
			2	21.50	21.35	21.47	21.48
			3	22.00	21.36	21.57	21.58
		6	0	20.50	20.32	20.39	20.39

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26705	26740	26775
					815.5MHz	819.0MHz	822.5MHz
3MHz	QPSK	1	0	22.50	22.40	22.30	22.31
			7	22.50	22.48	22.49	22.26
			14	22.50	22.29	22.30	22.16
		8	0	21.50	21.31	21.34	21.31
			4	21.50	21.35	21.36	21.36
			7	21.50	21.34	21.29	21.33
	15	0	21.50	21.28	21.34	21.33	
	16QAM	1	0	22.00	21.86	21.33	21.45
			7	22.50	21.62	22.03	21.49
			14	22.00	21.31	21.47	21.90
		8	0	20.50	20.47	20.44	20.35
			4	21.00	20.34	20.56	20.47
			7	21.00	20.41	20.32	20.55
		15	0	20.50	20.37	20.41	20.36

LTE-FDD Band 26 Part90				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		26715	26740	26765	
					816.5MHz	819.0MHz	821.5MHz	
5MHz	QPSK	1	0	22.50	22.13	22.12	22.15	
			13	22.50	22.27	22.27	22.26	
			24	22.50	22.18	22.16	21.95	
		12	0	21.50	21.12	21.27	21.23	
			6	21.50	21.21	21.24	21.26	
			13	21.50	21.09	21.08	21.15	
	25	0	21.50	21.16	21.25	21.20		
	16QAM	1	0	21.50	21.18	21.35	21.00	
			13	22.00	21.09	21.39	21.54	
			24	21.50	21.42	21.02	21.32	
		12	0	20.50	20.15	20.35	20.32	
			6	20.50	20.27	20.29	20.36	
			13	20.50	20.16	20.16	20.23	
		25	0	20.50	20.18	20.27	20.29	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26740	
						819.0MHz		
10MHz	QPSK	1	0	24.00	23.98			
			25	24.00	23.77			
			49	23.50	23.15			
		25	0	23.00	22.86			
			13	23.00	22.71			
			25	22.50	22.35			
	50	0	23.00	22.64				
	16QAM	1	0	23.50	23.11			
			25	23.00	22.79			
			49	23.00	22.65			
		25	0	22.00	21.86			
			13	22.00	21.79			
			25	21.50	21.42			
		50	0	22.00	21.64			

Band 26 Part22

LTE-FDD Band 26 Part22				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		26797	26915	27033	
					824.7MHz	836.5MHz	848.3MHz	
1.4MHz	QPSK	1	0	23.00	22.92	22.38	22.44	
			2	23.00	22.47	22.44	22.60	
			5	22.50	22.39	22.40	21.99	
		3	0	23.00	22.44	22.44	22.65	
			2	23.00	22.46	22.47	22.71	
			3	23.00	22.38	22.54	22.54	
	6	0	22.00	21.41	21.48	21.61		
	16QAM	1	0	22.00	21.36	21.52	21.60	
			2	22.00	21.57	21.65	21.68	
			5	22.00	21.45	21.57	21.62	
		3	0	22.00	21.45	21.55	21.82	
			2	22.00	21.68	21.50	21.66	
3			22.00	21.43	21.55	21.65		
6	0	21.00	20.33	20.54	20.67			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26805	26915	27025	
					825.5MHz	836.5MHz	847.5MHz	
3MHz	QPSK	1	0	23.00	22.44	22.49	22.57	
			7	23.00	22.62	22.60	21.97	
			14	22.50	22.42	22.49	21.44	
		8	0	22.00	21.42	21.44	21.64	
			4	22.00	21.47	21.50	21.62	
			7	22.00	21.44	21.44	21.57	
	15	0	22.00	21.44	21.48	21.61		
	16QAM	1	0	22.50	21.44	21.60	22.09	
			7	22.50	22.10	21.61	21.79	
			14	22.00	21.56	21.98	21.26	
		8	0	21.00	20.50	20.48	20.77	
			4	21.00	20.67	20.60	20.61	
			7	21.00	20.44	20.64	20.62	
		15	0	21.00	20.52	20.48	20.67	
		LTE-FDD Band 26 Part22				Maximum Tune-up(dBm)	Conducted Power(dBm)	
Bandwidth		Modulation	RB allocation	RB offset	26815		26915	27015
	826.5MHz				836.5MHz		846.5MHz	
5MHz	QPSK	1	0	22.50	22.24	22.30	22.40	
			13	22.50	22.38	22.42	21.89	
			24	22.50	22.21	22.27	21.55	
		12	0	22.00	21.22	21.43	21.52	
			6	22.00	21.33	21.42	21.50	
			13	21.50	21.38	21.21	21.36	
	25	0	22.00	21.32	21.36	21.50		
	16QAM	1	0	21.50	21.48	21.13	21.44	
			13	22.00	21.46	21.63	21.39	
			24	22.00	21.07	21.41	21.59	
		12	0	21.00	20.33	20.49	20.54	
			6	21.00	20.38	20.50	20.58	
			13	20.50	20.42	20.27	20.39	
		25	0	21.00	20.36	20.42	20.50	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26840	26915	26990
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	23.00	23.00	22.23	21.44
			25	23.00	22.79	21.96	21.18
			49	22.50	22.09	21.27	20.45
		25	0	22.00	21.89	20.98	20.27
			13	22.00	21.63	20.87	20.02
			25	21.50	21.49	20.44	19.59
	50	0	22.00	21.67	20.73	19.95	
	16QAM	1	0	22.50	22.14	21.75	20.40
			25	22.00	21.90	21.06	20.08
			49	21.50	21.21	20.27	19.46
		25	0	21.00	20.93	20.03	19.39
			13	21.00	20.69	19.90	19.11
			25	20.50	20.49	19.51	18.63
		50	0	21.00	20.71	19.77	18.99
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26865	26915
	831.5MHz					836.5MHz	841.5MHz
15MHz	QPSK	1	0	23.00	22.80	22.22	21.73
			38	22.50	22.31	21.68	21.19
			74	21.50	21.39	20.81	20.28
		36	0	22.00	21.51	20.99	20.72
			18	21.50	21.30	20.77	20.30
			39	21.00	20.91	20.26	19.71
	75	0	21.50	21.23	20.68	20.31	
	16QAM	1	0	22.50	22.19	21.31	21.25
			38	22.00	21.62	20.86	20.80
			74	21.00	20.73	20.02	19.85
		36	0	21.00	20.58	20.03	19.81
			18	20.50	20.34	19.84	19.35
			39	20.00	19.91	19.37	18.75
		75	0	20.50	20.20	19.69	19.36

Band 41

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		39675	40620	41565
				2498.5MHz	2593.0MHz	2687.5MHz	
5MHz	QPSK	1	0	20.00	19.03	17.99	19.90
			13	20.50	19.07	18.18	20.08
			24	20.50	18.54	18.02	20.23
		12	0	19.50	18.14	17.29	19.31
			6	19.50	17.87	17.37	19.01
			13	19.50	17.74	17.34	19.37
	25	0	19.50	17.81	17.37	19.06	
	16QAM	1	0	19.50	18.12	17.01	19.03
			13	19.50	18.20	17.25	19.21
			24	19.50	17.99	17.07	19.05
		12	0	18.00	17.07	16.38	17.93
			6	18.00	16.83	16.12	17.98
			13	18.50	17.02	16.08	18.31
		25	0	18.00	16.80	16.30	17.98

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39700	40620	41540
					2501.0MHz	2593.0MHz	2685.0MHz
10MHz	QPSK	1	0	20.00	19.12	18.08	19.87
			25	21.00	19.24	18.27	20.60
			49	20.00	18.88	18.03	19.96
		25	0	19.50	18.10	17.10	19.06
			13	19.50	18.09	17.14	19.05
			25	19.50	17.74	17.36	19.39
	50	0	19.50	17.74	17.13	19.04	
	16QAM	1	0	19.00	17.90	17.07	18.92
			25	19.50	17.97	17.34	19.39
			49	19.50	17.45	17.26	19.20
		25	0	18.50	16.74	16.40	18.33
			13	18.50	16.73	16.15	18.32
25			18.50	16.98	16.11	18.33	
50	0	18.50	17.00	16.10	18.37		

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		39725	40620	41515		
				2503.5MHz	2593.0MHz	2682.5MHz			
15MHz	QPSK	1	0	20.50	18.60	17.98	20.13		
			38	20.50	18.94	18.42	20.32		
			74	20.50	18.39	18.00	20.21		
		36	0	19.50	18.00	17.29	19.30		
			18	19.00	17.94	17.09	18.97		
			39	19.50	17.61	17.35	19.34		
	75	0	19.00	18.00	17.37	18.99			
	16QAM	1	0	19.00	17.79	16.85	18.89		
			38	19.50	17.56	17.01	19.32		
			74	19.50	17.67	17.01	19.25		
		36	0	18.00	16.97	16.32	17.96		
			18	18.50	17.00	16.09	18.30		
39			18.50	16.85	16.10	18.30			
75	0	18.50	16.94	16.31	18.31				
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39750	40620	41490		
20MHz	QPSK	1	0	20.00	18.51	18.04	19.86		
			50	20.50	18.74	18.23	20.34		
			99	20.50	18.33	17.78	20.07		
		50	0	19.50	17.90	17.05	19.30		
			25	19.50	17.62	17.13	19.30		
			50	19.50	17.80	17.09	19.29		
		100	0	19.00	17.88	17.08	18.95		
		16QAM	1	0	19.00	17.90	16.91	18.59	
				50	19.00	17.75	17.40	18.79	
	99			19.00	17.35	17.16	18.91		
	50		0	18.00	16.84	16.09	17.94		
			25	18.00	16.61	16.11	17.97		
			50	18.00	16.56	16.31	17.94		
	100		0	18.00	16.57	16.10	17.94		
	Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	2506.0MHz	2593.0MHz	2680.0MHz

Band 66

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		131979	132322	132665	
					1710.7MHz	1745.0MHz	1779.3MHz	
1.4MHz	QPSK	1	0	24.50	22.78	24.20	23.17	
			2	24.50	22.96	24.36	23.31	
			5	24.50	22.90	24.19	23.08	
		3	0	24.50	22.82	24.28	23.25	
			2	24.50	22.92	24.32	23.27	
			3	24.50	22.90	24.30	23.23	
	16QAM	6	0	23.50	21.96	23.34	22.21	
			1	0	23.50	21.79	23.13	22.44
				2	23.50	22.01	23.32	22.63
		5		23.50	21.91	23.14	22.38	
		3	0	23.50	21.73	23.13	22.28	
			2	23.50	21.83	23.11	22.25	
3	23.50		21.83	23.10	22.22			
6	0	22.50	20.81	22.35	21.27			
					131987	132322	132657	
					1711.5MHz	1745.0MHz	1778.5MHz	
3MHz	QPSK	1	0	24.50	22.81	24.30	23.19	
			7	25.00	23.27	24.56	23.41	
			14	24.50	23.11	24.27	23.10	
		8	0	23.50	21.98	23.38	22.27	
			4	23.50	22.13	23.37	22.24	
			7	23.50	22.13	23.32	22.19	
	16QAM	15	0	23.50	21.97	23.30	22.22	
			1	0	23.50	21.89	23.22	22.47
				7	23.50	22.24	23.42	22.63
		14		23.50	22.16	23.16	22.26	
		8	0	22.50	20.91	22.37	21.23	
			4	22.50	21.03	22.37	21.23	
7	22.50		21.09	22.32	21.18			
15	0	22.50	20.89	22.21	21.16			
					131997	132322	132647	
					1712.5MHz	1745.0MHz	1777.5MHz	
5MHz	QPSK	1	0	24.50	22.69	24.11	23.11	
			13	24.50	23.13	24.20	23.13	
			24	24.50	23.19	24.01	22.93	
		12	0	23.50	21.91	23.17	22.14	
			6	23.50	22.12	23.19	22.17	
			13	23.50	22.19	23.09	22.03	
	16QAM	25	0	23.50	22.08	23.17	22.15	
			1	0	23.50	21.80	23.22	22.19
				13	23.50	22.23	23.31	22.27
		24		23.50	22.34	23.15	22.02	
		12	0	22.50	20.93	22.26	21.09	
			6	22.50	21.14	22.26	21.19	
13	22.50		21.19	22.12	21.07			
25	0	22.50	21.03	22.21	21.13			

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132022	132322	132622	
					1715.0MHz	1745.0MHz	1775.0MHz	
10MHz	QPSK	1	0	24.50	22.84	24.23	23.39	
			25	24.50	23.53	24.30	23.37	
			49	24.50	23.75	24.11	23.05	
		25	0	23.50	22.25	23.37	22.47	
			13	23.50	22.47	23.28	22.38	
			25	23.50	22.70	23.20	22.31	
	50	0	23.50	22.50	23.28	22.38		
		16QAM	1	0	23.50	21.89	23.17	22.63
				25	23.50	22.64	23.26	22.59
	49			23.50	22.93	23.01	22.30	
	16QAM	25	0	22.50	21.25	22.39	21.44	
			13	22.50	21.49	22.31	21.37	
			25	22.50	21.74	22.20	21.29	
		50	0	22.50	21.51	22.26	21.41	

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		132047	132322	132597	
					1717.5MHz	1745.0MHz	1772.5MHz	
15MHz	QPSK	1	0	24.50	22.84	24.19	23.53	
			38	24.50	23.66	24.22	23.32	
			74	24.50	24.00	24.01	22.97	
		36	0	23.50	22.38	23.40	22.49	
			18	23.50	22.73	23.34	22.42	
			39	23.50	23.07	23.18	22.31	
	75	0	23.50	22.75	23.36	22.41		
		16QAM	1	0	23.50	21.99	23.13	22.77
				38	23.50	22.90	23.14	22.62
	74			23.50	23.26	22.91	22.28	
	36		0	22.50	21.38	22.29	21.49	
			18	22.50	21.73	22.28	21.44	
			39	22.50	22.06	22.14	21.29	
	75	0	22.50	21.74	22.28	21.36		
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322
						1720.0MHz	1745.0MHz	1770.0MHz
20MHz	QPSK	1	0	24.00	22.78	23.92	23.54	
			50	24.50	24.03	24.20	23.62	
			99	24.50	24.04	23.60	22.90	
		50	0	23.50	22.46	23.31	22.60	
			25	23.50	22.91	23.26	22.53	
			50	23.50	23.31	23.06	22.35	
	100	0	23.50	22.93	23.21	22.45		
		16QAM	1	0	23.50	21.69	23.14	22.70
				50	23.50	23.07	23.36	22.81
	99			23.50	23.16	22.85	22.04	
	50		0	22.50	21.48	22.38	21.57	
			25	22.50	21.94	22.32	21.54	
			50	22.50	22.33	22.14	21.38	
	100	0	22.50	21.94	22.22	21.44		

Band 71

LTE-FDD Band 71				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		133147	133297	133447	
					665.5MHz	680.5MHz	695.5MHz	
5MHz	QPSK	1	0	22.00	21.98	21.87	21.74	
			13	22.50	22.16	22.05	21.93	
			24	22.50	22.04	21.89	21.80	
		12	0	21.00	20.98	20.95	20.83	
			6	21.50	21.06	20.95	20.86	
			13	21.00	20.99	20.91	20.80	
		25	0	21.50	21.02	20.98	20.82	
		16QAM	1	0	21.50	21.12	21.02	20.89
				13	21.50	21.33	21.17	21.03
	24			21.50	21.18	20.99	20.94	
	12		0	20.00	19.94	19.87	19.80	
			6	20.50	20.04	19.90	19.84	
			13	20.50	20.01	19.87	19.79	
	25	0	20.00	20.00	19.90	19.77		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133172	133297	133422
					668.0MHz	680.5MHz	693.0MHz	
10MHz	QPSK	1	0	22.00	21.98	21.98	21.87	
			25	22.50	22.22	22.18	21.97	
			49	22.50	22.06	22.00	21.92	
		25	0	21.50	21.10	21.05	20.94	
			13	21.50	21.07	20.95	20.86	
			25	21.50	21.22	21.01	20.82	
		50	0	21.50	21.12	20.99	20.89	
		16QAM	1	0	21.50	21.09	20.92	20.97
				25	21.50	21.31	21.01	21.01
	49			21.50	21.20	20.98	21.05	
	25		0	20.50	20.08	20.02	19.93	
			13	20.50	20.00	19.96	19.83	
			25	20.50	20.13	20.00	19.82	
	50	0	20.50	20.01	19.95	19.79		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133197	133297	133397
					670.5MHz	680.5MHz	690.5MHz	
15MHz	QPSK	1	0	22.00	21.95	21.96	21.81	
			38	22.50	22.05	22.07	21.87	
			74	22.00	21.87	21.90	21.85	
		36	0	21.50	20.98	21.04	20.87	
			18	21.50	21.03	21.01	20.90	
			39	21.50	21.04	21.03	20.84	
		75	0	21.50	21.02	21.06	20.87	
		16QAM	1	0	21.50	21.28	20.89	20.97
				38	21.50	21.44	21.01	21.00
	74			21.50	21.31	20.89	20.98	
	36		0	20.00	19.96	19.99	19.84	
			18	20.00	19.94	19.92	19.86	
			39	20.00	19.99	19.98	19.84	
	75	0	20.00	19.92	19.97	19.82		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133222	133322	133372
					673.0MHz	683.0MHz	688.0MHz
20MHz	QPSK	1	0	22.00	21.78	21.75	21.68
			50	22.50	22.20	22.13	21.96
			99	22.00	21.80	21.70	21.60
		50	0	21.50	20.74	21.08	20.71
			25	21.00	20.94	20.95	20.85
			50	21.00	20.86	21.00	20.72
	100	0	21.00	20.79	20.98	20.78	
	16QAM	1	0	21.50	20.89	20.90	21.01
			50	21.50	21.27	21.27	21.34
			99	21.00	20.91	20.84	20.99
		50	0	20.00	19.71	19.93	19.74
			25	20.00	19.89	19.91	19.79
			50	20.00	19.78	19.99	19.71
		100	0	20.50	19.73	20.01	19.72

8.4 Wi-Fi

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
2.4g Wifi (2.4~2.4835)	802.11b	1	2412	14.93	15.00	No
		6	2437	14.68	15.00	No
		11	2462	15.08	15.50	Yes
	802.11g	1	2412	15.85	16.00	No
		6	2437	17.76	18.00	No
		11	2462	18.17	18.50	Yes
	802.11n(HT20)	1	2412	15.85	16.00	No
		6	2437	17.90	18.00	No
		11	2462	18.12	18.50	No
	802.11n(HT40)	3	2422	17.91	18.00	No
		6	2437	17.68	18.00	No
		2452	17.95	18.00	No	

Note: SAR is not required for the following 2.4 GHz OFDM conditions as the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2W/kg$.

Band (GHz)	Mode	Channel	Freq. (MHz)	Average power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-1 (5.150~5.250)	802.11a	36	5180	11.58	12.00	No
		40	5200	11.56	12.00	No
		48	5240	11.59	12.00	No
	802.11n(HT20)	36	5180	11.66	12.00	No
		40	5200	11.43	11.50	No
		48	5240	11.34	11.50	No
	802.11ac(VHT20)	36	5180	11.72	12.00	No
		40	5200	11.81	12.00	No
		48	5240	11.62	12.00	No
	802.11n(HT40)	38	5190	12.24	12.50	Yes
		46	5230	11.68	12.00	No
	802.11ac(VHT40)	38	5190	12.14	12.50	No
		46	5230	11.98	12.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Average power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-3 (5.725~5.850)	802.11a	149	5745	10.67	11.00	No
		157	5785	10.34	10.50	No
		165	5825	10.15	10.50	No
	802.11n(HT20)	149	5745	10.12	10.50	No
		157	5785	9.91	10.00	No
		165	5825	9.90	10.00	No
	802.11ac(VHT20)	149	5745	10.43	10.50	No
		157	5785	10.05	10.50	No
		165	5825	9.82	10.00	No
	802.11n(HT40)	151	5755	10.95	11.00	No
		159	5795	10.43	10.50	No
	802.11ac(VHT40)	151	5755	11.03	11.50	Yes
159		5795	10.60	11.00	No	

8.5 Bluetooth

EDR	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	5.50	4.67	5.04	5.33
	π/4QPSK	5.00	4.16	4.49	4.70
	8DPSK	4.50	4.00	4.29	4.48

BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	20	39
			2402MHz	2440MHz	2480MHz
	1Mbps	-1.50	-2.00	-1.64	-1.55
	2Mbps	-1.00	-1.96	-1.54	-1.47

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Exclusion thresholds for 1-g SAR(mW)	RF exposure evaluation required
78	2480	5.50	3.55	0	2.72	Yes
78	2480	5.50	3.55	10	10.17	No

Note

- Per KDB 447498 D04 Interim General RF Exposure Guidance v01, the 1-g SAR test exclusion thresholds for 300 MHz to 6 GHz at *test separation distances* ≤ 40 cm are determined by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (B.2)$$

where

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (B.1)$$

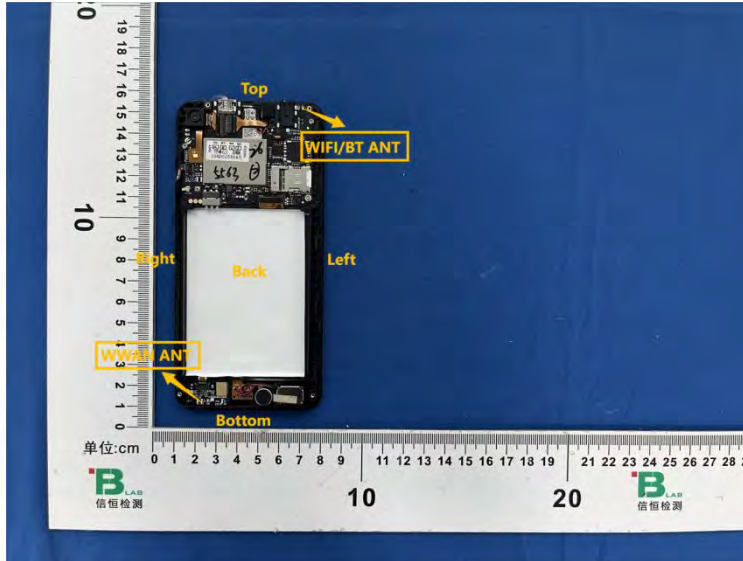
$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

- *When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine estimated SAR.
- Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

9. Test Exclusion Consideration

Antenna information:



WWAN Main Antenna	GSM/WCDMA/LTE TX/RX
WLAN/BT Antenna	WLAN/BT TX/RX
Note: 1. KDB 447498 D04v01, particular DUT edges were not required to be evaluated for SAR if the antenna-to-edge distance is greater than 2.5cm. 2. Per KDB648474 D04, 10-g extremity SAR is not required when Body-Worn mode 1-g reported SAR < 1.2W/Kg.	

Distance of The Antenna to the EUT surface and edge (mm)						
Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
WWAN	<25	<25	59	<25	142	<25
BT/Wifi	<25	<25	<25	59	<25	142
Positions for SAR tests: Hotspot mode						
Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
WWAN	Yes	Yes	No	Yes	No	Yes
BT/Wifi	Yes	Yes	Yes	No	Yes	No

9.1 SAR Test Exclusion Consideration Table

Per KDB 447498 requires when the standalone SAR test exclusion of section 4.3.1 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following format 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.

0.4 W/Kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm

Mode	Channel	Frequency (GHz)	Max tune-up power (dBm)	Max. Power (mW)	Exposure Position	Body-worn
					Test Dist.(mm)	10
BT	78	2480	5.50	3.55	Estimated SAR(W/kg)	0.075

10. Test Result

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GSM 850 (voice)	Left Cheek	128	824.2	3.540	0.411	100.00	1.000	33.77	34.00	1.054	0.433	/
	Left Tilt	128	824.2	0.630	0.223	100.00	1.000	33.77	34.00	1.054	0.235	/
	Right Cheek	128	824.2	-3.090	0.417	100.00	1.000	33.77	34.00	1.054	0.440	1#
	Right Tilt	128	824.2	-2.170	0.231	100.00	1.000	33.77	34.00	1.054	0.243	/
Body(10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GSM 850 (voice)	Front	128	824.2	3.710	0.333	100.00	1.000	33.77	34.00	1.054	0.351	/
	Back	128	824.2	-2.500	0.312	100.00	1.000	33.77	34.00	1.054	0.329	/
	Right	128	824.2	-2.180	0.251	100.00	1.000	33.77	34.00	1.054	0.265	/
	Bottom	128	824.2	2.090	0.284	100.00	1.000	33.77	34.00	1.054	0.299	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GPRS 850+4slots	Front	128	824.2	1.230	0.668	100.00	1.000	30.34	30.50	1.038	0.693	/
	Back	128	824.2	-2.630	0.710	100.00	1.000	30.34	30.50	1.038	0.737	2#
	Right	128	824.2	-1.040	0.613	100.00	1.000	30.34	30.50	1.038	0.636	/
	Bottom	128	824.2	2.530	0.642	100.00	1.000	30.34	30.50	1.038	0.666	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GSM 1900 (voice)	Left Cheek	810	1909.8	-1.050	0.052	100.00	1.000	26.83	27.00	1.040	0.054	/
	Left Tilt	810	1909.8	-0.320	0.023	100.00	1.000	26.83	27.00	1.040	0.024	/
	Right Cheek	810	1909.8	-2.770	0.057	100.00	1.000	26.83	27.00	1.040	0.059	3#
	Right Tilt	810	1909.8	1.750	0.027	100.00	1.000	26.83	27.00	1.040	0.028	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GSM 1900 (voice)	Front	810	1909.8	0.680	0.119	100.00	1.000	26.83	27.00	1.040	0.124	/
	Back	810	1909.8	3.220	0.131	100.00	1.000	26.83	27.00	1.040	0.136	/
	Right	810	1909.8	-2.650	0.102	100.00	1.000	26.83	27.00	1.040	0.106	/
	Bottom	810	1909.8	-2.090	0.163	100.00	1.000	26.83	27.00	1.040	0.170	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GPRS 1900+4slots	Front	810	1909.8	2.140	0.125	100.00	1.000	23.37	23.50	1.030	0.129	/
	Back	810	1909.8	-1.320	0.156	100.00	1.000	23.37	23.50	1.030	0.161	/
	Right	810	1909.8	2.530	0.114	100.00	1.000	23.37	23.50	1.030	0.117	/
	Bottom	810	1909.8	-3.140	0.180	100.00	1.000	23.37	23.50	1.030	0.185	4#

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 2 (RMC*)	Left Cheek	9262	1852.4	1.970	0.337	100.00	1.000	20.75	21.00	1.059	0.357	/
	Left Tilt	9262	1852.4	1.190	0.166	100.00	1.000	20.75	21.00	1.059	0.176	/
	Right Cheek	9262	1852.4	-3.030	0.342	100.00	1.000	20.75	21.00	1.059	0.362	5#
	Right Tilt	9262	1852.4	-1.690	0.174	100.00	1.000	20.75	21.00	1.059	0.184	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 2 (RMC*)	Front	9262	1852.4	-3.210	0.445	100.00	1.000	20.75	21.00	1.059	0.471	/
	Back	9262	1852.4	0.910	0.382	100.00	1.000	20.75	21.00	1.059	0.405	/
	Right	9262	1852.4	-1.690	0.380	100.00	1.000	20.75	21.00	1.059	0.402	/
	Bottom	9262	1852.4	-3.640	0.464	100.00	1.000	20.75	21.00	1.059	0.491	6#

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 4 (RMC*)	Left Cheek	1413	1732.6	0.520	0.722	100.00	1.000	25.27	25.50	1.054	0.761	/
	Left Tilt	1413	1732.6	-2.050	0.360	100.00	1.000	25.27	25.50	1.054	0.379	/
	Right Cheek	1413	1732.6	-1.110	0.729	100.00	1.000	25.27	25.50	1.054	0.768	7#
	Right Tilt	1413	1732.6	0.790	0.367	100.00	1.000	25.27	25.50	1.054	0.387	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 4 (RMC*)	Front	1413	1732.6	0.560	1.032	100.00	1.000	25.27	25.50	1.054	1.088	/
	Back	1413	1732.6	4.020	1.098	100.00	1.000	25.27	25.50	1.054	1.157	/
	Right	1413	1732.6	-3.380	1.009	100.00	1.000	25.27	25.50	1.054	1.063	/
	Bottom	1312	1712.4	1.650	0.989	100.00	1.000	23.91	24.00	1.021	1.010	/
	Bottom	1413	1732.6	-3.830	1.122	100.00	1.000	25.27	25.50	1.054	1.183	8#
	Bottom-repeat	1413	1732.6	0.970	1.108	100.00	1.000	25.27	25.50	1.054	1.168	/
	Bottom	1513	1752.6	2.110	1.089	100.00	1.000	25.07	25.50	1.104	1.202	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 5 (RMC*)	Left Cheek	4132	826.4	3.030	0.362	100.00	1.000	23.64	24.00	1.086	0.393	/
	Left Tilt	4132	826.4	-1.420	0.143	100.00	1.000	23.64	24.00	1.086	0.155	/
	Right Cheek	4132	826.4	-3.370	0.366	100.00	1.000	23.64	24.00	1.086	0.397	9#
	Right Tilt	4132	826.4	-2.570	0.149	100.00	1.000	23.64	24.00	1.086	0.162	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 5 (RMC*)	Front	4132	826.4	-1.010	0.275	100.00	1.000	23.64	24.00	1.086	0.299	/
	Back	4132	826.4	-4.270	0.295	100.00	1.000	23.64	24.00	1.086	0.320	10#
	Right	4132	826.4	1.950	0.138	100.00	1.000	23.64	24.00	1.086	0.150	/
	Bottom	4132	826.4	-2.330	0.121	100.00	1.000	23.64	24.00	1.086	0.131	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 2 (BW: 20MHz)	1RB	Left Cheek	18700	1860.0	1.280	0.384	100.00	1.000	20.50	21.00	1.122	0.431	/
		Left Tilt	18700	1860.0	1.460	0.216	100.00	1.000	20.50	21.00	1.122	0.242	/
		Right Cheek	18700	1860.0	-2.740	0.391	100.00	1.000	20.50	21.00	1.122	0.439	11#
		Right Tilt	18700	1860.0	-0.460	0.221	100.00	1.000	20.50	21.00	1.122	0.248	/
	50%RB	Left Cheek	18700	1860.0	2.590	0.367	100.00	1.000	19.39	19.50	1.026	0.377	/
		Left Tilt	18700	1860.0	-2.720	0.203	100.00	1.000	19.39	19.50	1.026	0.208	/
		Right Cheek	18700	1860.0	-2.250	0.375	100.00	1.000	19.39	19.50	1.026	0.385	/
		Right Tilt	18700	1860.0	0.600	0.211	100.00	1.000	19.39	19.50	1.026	0.216	/
Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 2 (BW: 20MHz)	1RB	Front	18700	1860.0	-1.960	0.317	100.00	1.000	20.50	21.00	1.122	0.356	/
		Back	18700	1860.0	-3.370	0.338	100.00	1.000	20.50	21.00	1.122	0.379	/
		Right	18700	1860.0	2.030	0.286	100.00	1.000	20.50	21.00	1.122	0.321	/
		Bottom	18700	1860.0	-1.620	0.364	100.00	1.000	20.50	21.00	1.122	0.408	12#
	50%RB	Front	18700	1860.0	-2.600	0.283	100.00	1.000	19.39	19.50	1.026	0.290	/
		Back	18700	1860.0	-2.620	0.309	100.00	1.000	19.39	19.50	1.026	0.317	/
		Right	18700	1860.0	-1.290	0.254	100.00	1.000	19.39	19.50	1.026	0.261	/
		Bottom	18700	1860.0	1.550	0.343	100.00	1.000	19.39	19.50	1.026	0.352	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 4	1RB	Left Cheek	20175	1732.5	-2.810	0.121	100.00	1.000	24.33	24.50	1.040	0.126	/

(BW: 20MHz)	50%RB	Left Tilt	20175	1732.5	0.810	0.058	100.00	1.000	24.33	24.50	1.040	0.060	/
		Right Cheek	20175	1732.5	-1.260	0.126	100.00	1.000	24.33	24.50	1.040	0.131	13#
		Right Tilt	20175	1732.5	0.110	0.064	100.00	1.000	24.33	24.50	1.040	0.067	/
	50%RB	Left Cheek	20175	1732.5	-3.050	0.103	100.00	1.000	23.29	23.50	1.050	0.108	/
		Left Tilt	20175	1732.5	1.830	0.053	100.00	1.000	23.29	23.50	1.050	0.056	/
		Right Cheek	20175	1732.5	-0.800	0.110	100.00	1.000	23.29	23.50	1.050	0.116	/
		Right Tilt	20175	1732.5	1.400	0.059	100.00	1.000	23.29	23.50	1.050	0.062	/

Body(hotspot open, 10mm Gap)

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 4 (BW: 20MHz)	1RB	Front	20175	1732.5	-0.270	0.885	100.00	1.000	24.33	24.50	1.040	0.920	/
		Back	20175	1732.5	0.430	0.925	100.00	1.000	24.33	24.50	1.040	0.962	/
		Right	20175	1732.5	-3.170	0.842	100.00	1.000	24.33	24.50	1.040	0.876	/
		Bottom	20050	1720.0	1.550	0.953	100.00	1.000	23.93	24.00	1.016	0.968	/
		Bottom	20175	1732.5	-3.560	0.974	100.00	1.000	24.33	24.50	1.040	1.013	14#
		Bottom-repeat	20175	1732.5	2.780	0.968	100.00	1.000	24.33	24.50	1.040	1.007	/
		Bottom	20300	1745.0	-0.830	0.961	100.00	1.000	24.26	24.50	1.057	1.016	/
	50%RB	Front	20175	1732.5	2.610	0.850	100.00	1.000	23.29	23.50	1.050	0.893	/
		Back	20175	1732.5	-1.640	0.897	100.00	1.000	23.29	23.50	1.050	0.942	/
		Right	20175	1732.5	-1.360	0.814	100.00	1.000	23.29	23.50	1.050	0.855	/
		Bottom	20175	1732.5	4.440	0.945	100.00	1.000	23.29	23.50	1.050	0.992	/

Head(0mm gap)

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Left Cheek	20450	829.0	3.280	0.301	100.00	1.000	22.83	23.00	1.040	0.313	/
		Left Tilt	20450	829.0	3.510	0.148	100.00	1.000	22.83	23.00	1.040	0.154	/
		Right Cheek	20450	829.0	-4.030	0.308	100.00	1.000	22.83	23.00	1.040	0.320	15#
		Right Tilt	20450	829.0	-1.950	0.154	100.00	1.000	22.83	23.00	1.040	0.160	/
	50%RB	Left Cheek	20450	829.0	-2.700	0.282	100.00	1.000	21.52	22.00	1.117	0.315	/
		Left Tilt	20450	829.0	-2.740	0.133	100.00	1.000	21.52	22.00	1.117	0.149	/
		Right Cheek	20450	829.0	-0.650	0.286	100.00	1.000	21.52	22.00	1.117	0.319	/
		Right Tilt	20450	829.0	0.260	0.141	100.00	1.000	21.52	22.00	1.117	0.157	/

Body(hotspot open, 10mm Gap)

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Front	20450	829.0	-3.430	0.302	100.00	1.000	22.83	23.00	1.040	0.314	/
		Back	20450	829.0	-1.240	0.321	100.00	1.000	22.83	23.00	1.040	0.334	16#
		Right	20450	829.0	2.880	0.254	100.00	1.000	22.83	23.00	1.040	0.264	/
		Bottom	20450	829.0	-2.130	0.278	100.00	1.000	22.83	23.00	1.040	0.289	/
	50%RB	Front	20450	829.0	2.700	0.281	100.00	1.000	21.52	22.00	1.117	0.314	/
		Back	20450	829.0	3.810	0.303	100.00	1.000	21.52	22.00	1.117	0.338	/
		Right	20450	829.0	0.860	0.230	100.00	1.000	21.52	22.00	1.117	0.257	/
		Bottom	20450	829.0	-1.660	0.249	100.00	1.000	21.52	22.00	1.117	0.278	/

Head(0mm gap)

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 12 (BW: 10MHz)	1RB	Left Cheek	23060	704.0	-1.880	0.305	100.00	1.000	21.53	22.00	1.114	0.340	/
		Left Tilt	23060	704.0	0.940	0.157	100.00	1.000	21.53	22.00	1.114	0.175	/
		Right Cheek	23060	704.0	-2.880	0.313	100.00	1.000	21.53	22.00	1.114	0.349	17#
		Right Tilt	23060	704.0	-2.450	0.163	100.00	1.000	21.53	22.00	1.114	0.182	/
	50%RB	Left Cheek	23060	704.0	2.470	0.289	100.00	1.000	20.38	20.50	1.028	0.297	/
		Left Tilt	23060	704.0	1.130	0.140	100.00	1.000	20.38	20.50	1.028	0.144	/
		Right Cheek	23060	704.0	-1.300	0.295	100.00	1.000	20.38	20.50	1.028	0.303	/
		Right Tilt	23060	704.0	0.400	0.146	100.00	1.000	20.38	20.50	1.028	0.150	/

Body(hotspot open, 10mm Gap)

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 12	1RB	Front	23060	704.0	-3.270	0.264	100.00	1.000	21.53	22.00	1.114	0.294	/

(BW: 10MHz)		Back	23060	704.0	-0.930	0.292	100.00	1.000	21.53	22.00	1.114	0.325	18#
		Right	23060	704.0	-1.970	0.208	100.00	1.000	21.53	22.00	1.114	0.232	/
		Bottom	23060	704.0	1.670	0.236	100.00	1.000	21.53	22.00	1.114	0.263	/
	50%RB	Front	23060	704.0	0.720	0.238	100.00	1.000	20.38	20.50	1.028	0.245	/
		Back	23060	704.0	-1.880	0.268	100.00	1.000	20.38	20.50	1.028	0.276	/
		Right	23060	704.0	1.900	0.181	100.00	1.000	20.38	20.50	1.028	0.186	/
		Bottom	23060	704.0	-1.780	0.212	100.00	1.000	20.38	20.50	1.028	0.218	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 25 (BW: 20MHz)	1RB	Left Cheek	26140	1860.0	0.500	0.377	100.00	1.000	19.92	20.00	1.019	0.384	/
		Left Tilt	26140	1860.0	-1.200	0.172	100.00	1.000	19.92	20.00	1.019	0.175	/
		Right Cheek	26140	1860.0	-2.550	0.385	100.00	1.000	19.92	20.00	1.019	0.392	19#
		Right Tilt	26140	1860.0	1.610	0.178	100.00	1.000	19.92	20.00	1.019	0.181	/
	50%RB	Left Cheek	26140	1860.0	-1.670	0.354	100.00	1.000	18.86	19.00	1.033	0.366	/
		Left Tilt	26140	1860.0	2.770	0.162	100.00	1.000	18.86	19.00	1.033	0.167	/
		Right Cheek	26140	1860.0	-3.150	0.361	100.00	1.000	18.86	19.00	1.033	0.373	/
		Right Tilt	26140	1860.0	-1.380	0.167	100.00	1.000	18.86	19.00	1.033	0.173	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 25 (BW: 20MHz)	1RB	Front	26140	1860.0	0.920	0.308	100.00	1.000	19.92	20.00	1.019	0.314	/
		Back	26140	1860.0	-2.520	0.339	100.00	1.000	19.92	20.00	1.019	0.345	/
		Right	26140	1860.0	-0.930	0.276	100.00	1.000	19.92	20.00	1.019	0.281	/
		Bottom	26140	1860.0	4.700	0.377	100.00	1.000	19.92	20.00	1.019	0.384	20#
	50%RB	Front	26140	1860.0	-3.710	0.289	100.00	1.000	18.86	19.00	1.033	0.299	/
		Back	26140	1860.0	-2.180	0.318	100.00	1.000	18.86	19.00	1.033	0.328	/
		Right	26140	1860.0	-4.380	0.252	100.00	1.000	18.86	19.00	1.033	0.260	/
		Bottom	26140	1860.0	-2.970	0.350	100.00	1.000	18.86	19.00	1.033	0.362	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 26 part 90 (BW:10MHz)	1RB	Left Cheek	26740	819.0	-4.400	0.183	100.00	1.000	23.98	24.00	1.005	0.184	/
		Left Tilt	26740	819.0	1.840	0.092	100.00	1.000	23.98	24.00	1.005	0.092	/
		Right Cheek	26740	819.0	0.010	0.189	100.00	1.000	23.98	24.00	1.005	0.190	21#
		Right Tilt	26740	819.0	0.950	0.098	100.00	1.000	23.98	24.00	1.005	0.098	/
	50%RB	Left Cheek	26740	819.0	-3.960	0.168	100.00	1.000	22.86	23.00	1.033	0.174	/
		Left Tilt	26740	819.0	-0.250	0.081	100.00	1.000	22.86	23.00	1.033	0.084	/
		Right Cheek	26740	819.0	-1.460	0.175	100.00	1.000	22.86	23.00	1.033	0.181	/
		Right Tilt	26740	819.0	-0.350	0.087	100.00	1.000	22.86	23.00	1.033	0.090	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 26 part 90 (BW: 10MHz)	1RB	Front	26740	819.0	2.160	0.148	100.00	1.000	23.98	24.00	1.005	0.149	/
		Back	26740	819.0	-0.110	0.172	100.00	1.000	23.98	24.00	1.005	0.173	22#
		Right	26740	819.0	0.680	0.102	100.00	1.000	23.98	24.00	1.005	0.103	/
		Bottom	26740	819.0	0.270	0.127	100.00	1.000	23.98	24.00	1.005	0.128	/
	50%RB	Front	26740	819.0	-4.850	0.129	100.00	1.000	22.86	23.00	1.033	0.133	/
		Back	26740	819.0	0.320	0.156	100.00	1.000	22.86	23.00	1.033	0.161	/
		Right	26740	819.0	-1.880	0.086	100.00	1.000	22.86	23.00	1.033	0.089	/
		Bottom	26740	819.0	2.060	0.101	100.00	1.000	22.86	23.00	1.033	0.104	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 26 part 22 (BW:15MHz)	1RB	Left Cheek	26865	831.5	-0.380	0.226	100.00	1.000	22.80	23.00	1.047	0.237	/
		Left Tilt	26865	831.5	2.750	0.130	100.00	1.000	22.80	23.00	1.047	0.136	/
		Right Cheek	26865	831.5	2.940	0.232	100.00	1.000	22.80	23.00	1.047	0.243	23#

	50%RB	Right Tilt	26865	831.5	3.030	0.135	100.00	1.000	22.80	23.00	1.047	0.141	/
		Left Cheek	26865	831.5	0.340	0.211	100.00	1.000	21.51	22.00	1.119	0.236	/
		Left Tilt	26865	831.5	-2.660	0.121	100.00	1.000	21.51	22.00	1.119	0.135	/
		Right Cheek	26865	831.5	2.700	0.219	100.00	1.000	21.51	22.00	1.119	0.245	/
		Right Tilt	26865	831.5	-2.900	0.128	100.00	1.000	21.51	22.00	1.119	0.143	/
Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 26 part 22 (BW:15MHz)	1RB	Front	26865	831.5	0.980	0.189	100.00	1.000	22.80	23.00	1.047	0.198	/
		Back	26865	831.5	-1.610	0.210	100.00	1.000	22.80	23.00	1.047	0.220	24#
		Right	26865	831.5	1.710	0.135	100.00	1.000	22.80	23.00	1.047	0.141	/
		Bottom	26865	831.5	-4.570	0.167	100.00	1.000	22.80	23.00	1.047	0.175	/
	50%RB	Front	26865	831.5	2.240	0.165	100.00	1.000	21.51	22.00	1.119	0.185	/
		Back	26865	831.5	-2.690	0.197	100.00	1.000	21.51	22.00	1.119	0.220	/
		Right	26865	831.5	4.350	0.116	100.00	1.000	21.51	22.00	1.119	0.130	/
		Bottom	26865	831.5	-1.190	0.145	100.00	1.000	21.51	22.00	1.119	0.162	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 41 (BW: 20MHz)	1RB	Left Cheek	41490	2680.0	-1.800	0.062	100.00	1.000	20.34	20.50	1.038	0.064	/
		Left Tilt	41490	2680.0	1.280	0.030	100.00	1.000	20.34	20.50	1.038	0.031	/
		Right Cheek	41490	2680.0	-2.270	0.066	100.00	1.000	20.34	20.50	1.038	0.069	25#
		Right Tilt	41490	2680.0	-1.710	0.035	100.00	1.000	20.34	20.50	1.038	0.036	/
	50%RB	Left Cheek	41490	2680.0	1.620	0.050	100.00	1.000	19.30	19.50	1.047	0.052	/
		Left Tilt	41490	2680.0	-4.150	0.021	100.00	1.000	19.30	19.50	1.047	0.022	/
		Right Cheek	41490	2680.0	-1.500	0.057	100.00	1.000	19.30	19.50	1.047	0.060	/
		Right Tilt	41490	2680.0	-3.170	0.027	100.00	1.000	19.30	19.50	1.047	0.028	/
Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 41 (BW: 20MHz)	1RB	Front	41490	2680.0	-2.900	0.293	100.00	1.000	20.34	20.50	1.038	0.304	/
		Back	41490	2680.0	-0.740	0.324	100.00	1.000	20.34	20.50	1.038	0.336	/
		Right	41490	2680.0	2.710	0.246	100.00	1.000	20.34	20.50	1.038	0.255	/
		Bottom	41490	2680.0	-2.370	0.352	100.00	1.000	20.34	20.50	1.038	0.365	26#
	50%RB	Front	41490	2680.0	-3.590	0.276	100.00	1.000	19.30	19.50	1.047	0.289	/
		Back	41490	2680.0	0.220	0.298	100.00	1.000	19.30	19.50	1.047	0.312	/
		Right	41490	2680.0	-1.090	0.218	100.00	1.000	19.30	19.50	1.047	0.228	/
		Bottom	41490	2680.0	-3.720	0.323	100.00	1.000	19.30	19.50	1.047	0.338	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 66 (BW: 20MHz)	1RB	Left Cheek	132322	1745.0	1.520	0.719	100.00	1.000	24.20	24.50	1.072	0.771	/
		Left Tilt	132322	1745.0	1.170	0.361	100.00	1.000	24.20	24.50	1.072	0.387	/
		Right Cheek	132322	1745.0	-3.410	0.725	100.00	1.000	24.20	24.50	1.072	0.777	27#
		Right Tilt	132322	1745.0	-0.250	0.368	100.00	1.000	24.20	24.50	1.072	0.394	/
	50%RB	Left Cheek	132322	1745.0	1.320	0.687	100.00	1.000	23.31	23.50	1.045	0.718	/
		Left Tilt	132322	1745.0	0.290	0.348	100.00	1.000	23.31	23.50	1.045	0.364	/
		Right Cheek	132322	1745.0	2.410	0.703	100.00	1.000	23.31	23.50	1.045	0.735	/
		Right Tilt	132322	1745.0	-1.370	0.355	100.00	1.000	23.31	23.50	1.045	0.371	/
Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 66 (BW: 20MHz)	1RB	Front	132322	1745.0	-4.140	0.892	100.00	1.000	24.20	24.50	1.072	0.956	/
		Back	132322	1745.0	-0.960	0.918	100.00	1.000	24.20	24.50	1.072	0.984	/
		Right	132322	1745.0	1.370	0.841	100.00	1.000	24.20	24.50	1.072	0.902	/
		Bottom	132072	1720.0	2.440	0.903	100.00	1.000	24.03	24.50	1.114	1.006	/
		Bottom	132322	1745.0	-0.850	0.944	100.00	1.000	24.20	24.50	1.072	1.012	28#

	50%RB	Bottom-repeat	132322	1745.0	1.560	0.937	100.00	1.000	24.20	24.50	1.072	1.004	/
		Bottom	132572	1770.0	4.120	0.910	100.00	1.000	23.62	24.00	1.091	0.993	/
		Front	132322	1745.0	-2.220	0.971	100.00	1.000	23.31	23.50	1.045	1.015	/
		Back	132322	1745.0	-3.320	0.900	100.00	1.000	23.31	23.50	1.045	0.941	/
		Right	132322	1745.0	3.020	0.816	100.00	1.000	23.31	23.50	1.045	0.853	/
		Bottom	132322	1745.0	-0.220	0.920	100.00	1.000	23.31	23.50	1.045	0.961	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 71 (BW: 20MHz)	1RB	Left Cheek	133222	673.0	-1.500	0.223	100.00	1.000	22.20	22.50	1.072	0.239	/
		Left Tilt	133222	673.0	3.320	0.112	100.00	1.000	22.20	22.50	1.072	0.120	/
		Right Cheek	133222	673.0	4.370	0.227	100.00	1.000	22.20	22.50	1.072	0.243	29#
		Right Tilt	133222	673.0	2.180	0.118	100.00	1.000	22.20	22.50	1.072	0.126	/
	50%RB	Left Cheek	133222	673.0	2.830	0.201	100.00	1.000	20.94	21.00	1.014	0.204	/
		Left Tilt	133222	673.0	-4.180	0.102	100.00	1.000	20.94	21.00	1.014	0.103	/
		Right Cheek	133222	673.0	0.270	0.206	100.00	1.000	20.94	21.00	1.014	0.209	/
		Right Tilt	133222	673.0	-2.050	0.107	100.00	1.000	20.94	21.00	1.014	0.108	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 71 (BW: 20MHz)	1RB	Front	133222	673.0	2.120	0.216	100.00	1.000	22.20	22.50	1.072	0.232	/
		Back	133222	673.0	-2.580	0.235	100.00	1.000	22.20	22.50	1.072	0.252	30#
		Right	133222	673.0	-0.930	0.172	100.00	1.000	22.20	22.50	1.072	0.184	/
		Bottom	133222	673.0	2.300	0.197	100.00	1.000	22.20	22.50	1.072	0.211	/
	50%RB	Front	133222	673.0	-3.740	0.201	100.00	1.000	20.94	21.00	1.014	0.204	/
		Back	133222	673.0	3.650	0.210	100.00	1.000	20.94	21.00	1.014	0.213	/
		Right	133222	673.0	-1.630	0.153	100.00	1.000	20.94	21.00	1.014	0.155	/
		Bottom	133222	673.0	0.350	0.175	100.00	1.000	20.94	21.00	1.014	0.177	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
2.4g (2.4~2.4835) 802.11b	Left Cheek	11	2462	-2.130	0.332	99.55	0.02	15.08	15.50	1.102	0.366	/
	Left Tilt	11	2462	3.690	0.166	99.55	0.02	15.08	15.50	1.102	0.183	/
	Right Cheek	11	2462	-3.500	0.337	99.55	0.02	15.08	15.50	1.102	0.371	31#
	Right Tilt	11	2462	2.480	0.172	99.55	0.02	15.08	15.50	1.102	0.190	/

Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
2.4g (2.4~2.4835) 802.11b	Front	11	2462	2.680	0.162	99.55	0.02	15.08	15.50	1.102	0.179	/
	Back	11	2462	3.030	0.180	99.55	0.02	15.08	15.50	1.102	0.198	32#
	Left	11	2462	-2.320	0.110	99.55	0.02	15.08	15.50	1.102	0.121	/
	Top	11	2462	0.740	0.139	99.55	0.02	15.08	15.50	1.102	0.153	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
2.4g (2.4~2.4835) 802.11g	Left Cheek	11	2462	-2.460	0.310	97.48	0.11	18.17	18.50	1.079	0.334	/
	Left Tilt	11	2462	2.720	0.148	97.48	0.11	18.17	18.50	1.079	0.160	/
	Right Cheek	11	2462	-1.660	0.315	97.48	0.11	18.17	18.50	1.079	0.340	/
	Right Tilt	11	2462	1.870	0.153	97.48	0.11	18.17	18.50	1.079	0.165	/

Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
2.4g (2.4~2.4835) 802.11g	Front	11	2462	3.240	0.141	97.48	0.11	18.17	18.50	1.079	0.152	/
	Back	11	2462	-2.050	0.160	97.48	0.11	18.17	18.50	1.079	0.173	/
	Left	11	2462	-1.730	0.102	97.48	0.11	18.17	18.50	1.079	0.110	/
	Top	11	2462	0.190	0.123	97.48	0.11	18.17	18.50	1.079	0.133	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
U-NII-1 (5.150~5.250) 802.11n(HT40)	Left Cheek	38	5190	-1.320	0.712	97.55	0.11	12.24	12.50	1.062	0.756	/
	Left Tilt	38	5190	2.550	0.361	97.55	0.11	12.24	12.50	1.062	0.383	/
	Right Cheek	38	5190	2.030	0.716	97.55	0.11	12.24	12.50	1.062	0.760	33#
	Right Tilt	38	5190	2.340	0.366	97.55	0.11	12.24	12.50	1.062	0.389	/

Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
U-NII-1 (5.150~5.250) 802.11n(HT40)	Front	38	5190	-1.570	0.142	97.55	0.11	12.24	12.50	1.062	0.151	/
	Back	38	5190	3.180	0.175	97.55	0.11	12.24	12.50	1.062	0.186	34#
	Left	38	5190	-2.100	0.104	97.55	0.11	12.24	12.50	1.062	0.110	/
	Top	38	5190	1.930	0.128	97.55	0.11	12.24	12.50	1.062	0.136	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
U-NII-3 (5.725~5.850) 802.11ac(VHT40)	Left Cheek	151	5755	0.060	0.442	94.88	0.23	11.03	11.50	1.114	0.492	/
	Left Tilt	151	5755	1.890	0.228	94.88	0.23	11.03	11.50	1.114	0.254	/
	Right Cheek	151	5755	-3.600	0.448	94.88	0.23	11.03	11.50	1.114	0.499	35#
	Right Tilt	151	5755	0.980	0.234	94.88	0.23	11.03	11.50	1.114	0.261	/

Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
U-NII-3 (5.725~5.850) 802.11ac(VHT40)	Front	151	5755	-0.500	0.158	94.88	0.23	11.03	11.50	1.114	0.176	/
	Back	151	5755	-1.890	0.172	94.88	0.23	11.03	11.50	1.114	0.192	36#
	Left	151	5755	-3.070	0.116	94.88	0.23	11.03	11.50	1.114	0.129	/
	Top	151	5755	1.530	0.135	94.88	0.23	11.03	11.50	1.114	0.150	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Bluetooth	Left Cheek	78	2480.0	-0.250	0.048	100.00	1.000	5.33	5.50	1.040	0.050	/
	Left Tilt	78	2480.0	-3.810	0.022	100.00	1.000	5.33	5.50	1.040	0.023	/
	Right Cheek	78	2480.0	3.000	0.053	100.00	1.000	5.33	5.50	1.040	0.055	37#
	Right Tilt	78	2480.0	1.940	0.026	100.00	1.000	5.33	5.50	1.040	0.027	/

- Note:**
- The maximum SAR Value of each test band is marked bold.
 - SAR plot is provided only for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
 - Per KDB 447498 D04 v01, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8W/kg$, other channels SAR testing is not necessary.
 - Per KDB 447498 D04 v01, head/body-worn use is evaluated with the device positioned at 0mm/ 10 mm from a head/flat phantom respectively filled with head tissue-equivalent medium.
 - Per KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.
 - Per KDB 447498 D04 v01, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor= $10^{(tune-up\ limit\ power(dBm) - Ave.power\ power(dBm))/10}$, where tune-up limit is the maximum rated power among all production units.
Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor.

11. SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Note: For 1g SAR, the highest measured 1g SAR is $1.122 > 0.80$ W/kg, repeated measurement is as below.

Mode	Position	Ch.	Freq. (MHz)	1g Meas SAR (W/kg)	the ratio of largest to smallest SAR for the original and first repeated measurements
WCDMA Band 4	Bottom	1413	1732.6	1.122	1.013
	Bottom-repeated	1413	1732.6	1.108	
LTE Band 4 (BW: 20MHz)	Bottom	20175	1732.5	0.974	1.006
	Bottom-repeated	20175	1732.5	0.968	
LTE Band 66 (BW: 20MHz)	Bottom	132322	1745.0	0.944	1.007
	Bottom-repeated	132322	1745.0	0.937	

According to the above ratio result, we don't need to perform a second repeated measurement for these bands.

12. Simultaneous Transmission

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

12.1 Simultaneous Transmission Mode Considerations

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. The device has 2 Tx antennas, WWAN main antenna, Wifi/BT antenna supports 2.4G/5G Wi-Fi and BT. The 2 antennas can always transmit simultaneously. The work mode combination is showed as below table.

Application Simultaneous Transmission information:

NO.	Configuration	Head	Body-worn
1	WWAN+WIFI(2.4g)	Yes	Yes
2	WWAN+WIFI(5g)	Yes	Yes
3	WWAN+BT	Yes	Yes

12.2 Sum SAR of Simultaneous Transmission

Head

Band	Channel Type	Test Position	Scaled				Σ SAR (W/kg) WWAN + WIFI 2.4G	Σ SAR (W/kg) WWAN + WIFI 5G	Σ SAR (W/kg) WWAN + BT	SPLSR	Remark
			WWAN	WIFI 2.4G	WIFI 5G	Bluetooth					
LTE Band 66	1RB	Left Cheek	0.771	0.366	0.756	0.050	1.137	1.527	0.821	N/A	N/A
		Left Tilt	0.387	0.183	0.383	0.023	0.570	0.770	0.410	N/A	N/A
		Right Cheek	0.777	0.371	0.760	0.055	1.148	1.537	0.832	N/A	N/A
		Right Tilt	0.394	0.190	0.389	0.027	0.584	0.783	0.421	N/A	N/A
	50%RB	Left Cheek	0.718	0.366	0.756	0.050	1.084	1.474	0.768	N/A	N/A
		Left Tilt	0.364	0.183	0.383	0.023	0.547	0.747	0.387	N/A	N/A
		Right Cheek	0.735	0.371	0.760	0.055	1.106	1.495	0.790	N/A	N/A
		Right Tilt	0.371	0.190	0.389	0.027	0.561	0.760	0.398	N/A	N/A

Hotspot(body-worn)

Band	Test Position	Scaled				Σ SAR (W/kg) WWAN + WIFI 2.4G	WIFI 5G	Σ SAR (W/kg) WWAN + BT	SPLSR	Remark
		WWAN	WIFI 2.4G	WIFI 5G	Bluetooth					
WCDMA Band IV	Front	1.088	0.179	0.176	0.075	1.267	1.264	1.163	N/A	N/A
	Back	1.157	0.198	0.192	0.075	1.355	1.349	1.232	N/A	N/A
	Left	/	0.121	0.129	0.075	0.121	0.129	0.075	N/A	N/A
	Right	1.063	/	/	/	1.063	1.063	1.063	N/A	N/A
	Top	/	0.153	0.150	0.075	0.153	0.150	0.075	N/A	N/A
	Bottom	1.183	/	/	/	1.183	1.183	1.183	N/A	N/A

13. Test Equipment List

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
E-Field Probe	MVG	SSE2	04/22 EPG0365	2024/02/06	2025/02/05
6 1/2 Digital Multimeter	Keithley	DMM6500	4527164	2023/11/16	2024/11/15
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	161997	2023/11/16	2024/11/15
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2023/11/16	2024/11/15
E-Series Avg. Power Sensor	KEYSIGHT	E9300A	MY55050017	2024/03/20	2025/03/19
EPM Series Power Meter	KEYSIGHT	E4418B	MY41293435	2024/03/20	2025/03/19
10dB Attenuator	MIDWEST MICROWAVE	263-10dB	/	2024/03/20	2025/03/19
Coupler	MERRIMAC	CWM-10R-10.8G	LOT-83391	2024/03/20	2025/03/19
750MHz Validation Dipole	MVG	SID750	07/22 DIP 0G750-655	2023/02/06	2025/02/05
835MHz Validation Dipole	MVG	SID835	07/22 DIP 0G835-656	2023/02/06	2025/02/05
1800MHz Validation Dipole	MVG	SID1800	07/22 DIP 1G800-657	2023/02/06	2025/02/05
1900MHz Validation Dipole	MVG	SID1900	07/22 DIP 1G900-658	2023/02/06	2025/02/05
2450MHz Validation Dipole	MVG	SID2450	07/22 DIP 2G450-662	2023/02/06	2025/02/05
2600MHz Validation Dipole	MVG	SID2600	07/22 DIP 2G600-663	2023/02/06	2025/02/05
5200MHz-5800MHz Validation Dipole	MVG	SID5000	07/22 DIP5G000-670	2023/02/06	2025/02/05
LIMESAR Dielectric Probe	MVG	SCLMP	06/22 OCPG88	/	/
ENA Series Network Analyzer	Agilent	E5071B	MY42301221	2023/11/16	2024/11/15
Thermometer	Riters	DT-232	21A11	2024/03/20	2025/03/19
Antenna network emulator	MVG	ANTA 74	07/22 ANTA 74	/	/
SAM Phantom	MVG	SAM	07/22 SAM149	/	/
Mobile Phone Positioning System	MVG	MSH 118	07/22 MSH 118	/	/
Mechanical Calibration Kit	PNA	/	/	/	/
Open SAR test software	MVG	/	V5.3.5	/	/

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

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

ANNEX A Simulating Liquid Verification Result

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

Dielectric performance of tissue simulating liquid									
Frequency (MHz)	ϵ_r		σ (s/m)		Delta (ϵ_r)	Delta (σ)	Limit	Temp (°C)	Date
	Target	Measured	Target	Measured					
750	41.90	41.80	0.89	0.86	0.24%	3.37%	±5%	21.0	5/6/2024
835	41.50	41.41	0.90	0.87	0.22%	3.33%	±5%	21.0	6/6/2024
1800	40.00	39.91	1.40	1.37	0.23%	2.14%	±5%	21.0	7/6/2024
1900	40.00	39.88	1.40	1.41	0.30%	-0.71%	±5%	21.0	11/6/2024
2450	39.20	39.08	1.80	1.81	0.31%	-0.56%	±5%	21.0	12/6/2024
2600	39.00	38.88	1.96	1.97	0.31%	-0.51%	±5%	21.0	13/6/2024
5200	36.00	35.88	4.66	4.70	0.33%	-0.86%	±5%	21.0	14/6/2024
5800	35.30	35.18	5.27	5.31	0.34%	-0.76%	±5%	21.0	14/6/2024

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

ANNEX B System Check Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 % (for 10 g).

Frequency (MHz)	Input Power (mW)	10g SAR (W/Kg)	1g SAR (W/Kg)	10g SAR 1W input power normalized (W/Kg)	1g SAR 1W input power normalized (W/Kg)	10g SAR Standard target (1W) (W/Kg)	1g SAR Standard target (1W) (W/Kg)	1g SAR Deviation	10g SAR Deviation
750	16	0.092	0.138	5.75	8.63	5.55	8.49	3.60%	1.59%
835	16	0.106	0.163	6.63	10.19	6.17	9.79	7.37%	4.06%
1800	16	0.312	0.588	19.50	36.75	20.61	39.33	-5.39%	-6.56%
1900	16	0.322	0.630	20.13	39.38	20.70	40.97	-2.78%	-3.89%
2450	16	0.352	0.793	22.00	49.56	23.86	54.4	-7.80%	-8.89%
2600	16	0.421	0.866	26.31	54.13	24.48	57.14	7.49%	-5.28%
5200	13	0.288	1.019	22.15	78.38	21.29	73.88	4.06%	6.10%
5800	13	0.277	0.981	21.31	75.46	21.5	74.21	-0.89%	1.69%

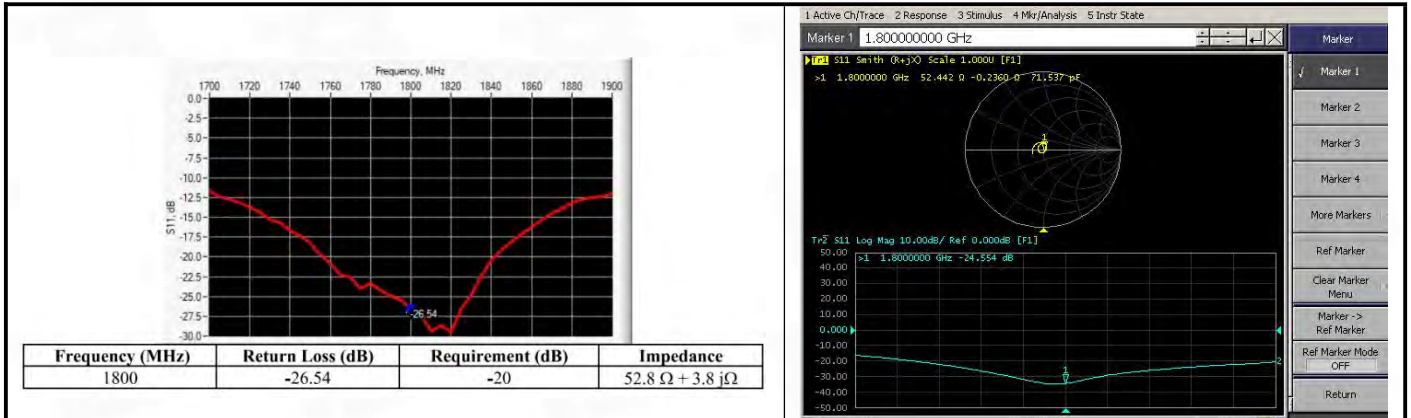
ANNEX C SAR Dipole Calibrations

Justification for Extended SAR Dipole Calibrations

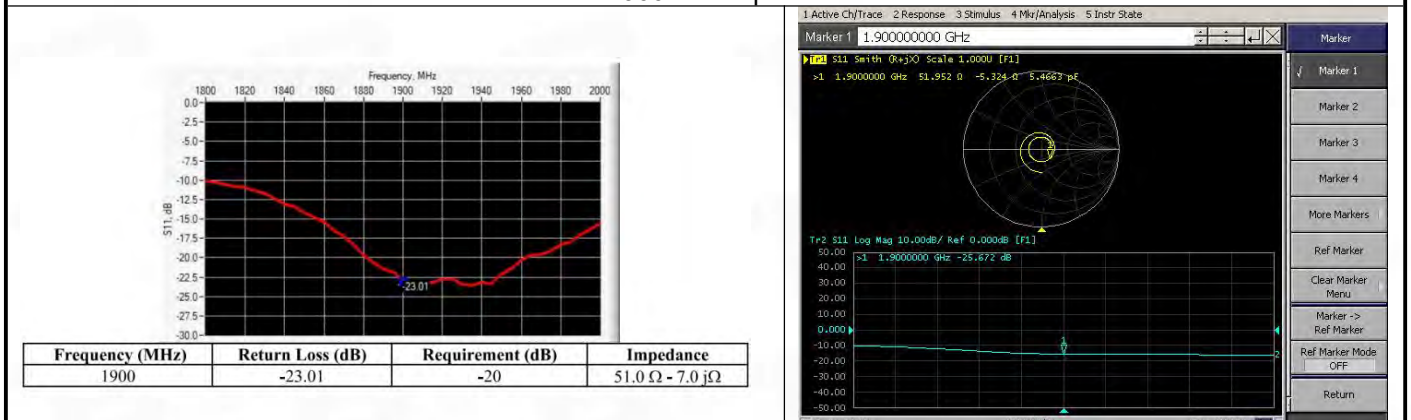
Referring to KDB 865664D01V01r04, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration) and in impedance (within 5 ohm of prior calibration). the annual calibration is not necessary and the calibration interval can be extended. While calibration intervals not exceed 3 years.

Frequency (MHz)	Return loss(dB)		Impedance(Ω)				error range (%)		Results (P/F)	Date of Measurement
	measurement	target	measurement		target		Return loss($\pm 20\%$)	Impedance($\pm 5 \Omega$)		
			real part	imaginary part	real part	imaginary part				
CW750	-20.92	-25.44	55.89	1.5	55.2	-1.2	-17.77%	3.4	P	2/5/2024
CW835	-29.88	-26.27	52.8	-1.7	52.5	-4.2	13.74%	2.8	P	2/5/2024
CW1800	-24.55	-26.54	52.4	-0.2	52.8	+3.8	-7.50%	4.4	P	2/5/2024
CW1900	-25.67	-23.01	51.9	-5.3	51.0	-7.0	11.56%	2.6	P	2/5/2024
CW2450	-24.37	-21.23	48.3	5.7	49.4	+8.6	14.79%	4.0	P	2/5/2024
CW2600	-20.56	-23.05	57.3	5.7	54.3	+5.5	-10.80%	3.2	P	2/5/2024
CW5200	-21.14	-20.29	58.4	-4.5	58.76	-4.43	4.19%	0.43	P	2/5/2024
CW5800	-28.88	-28.48	50.8	0.1	50.12	-3.76	1.40%	4.34	P	2/5/2024

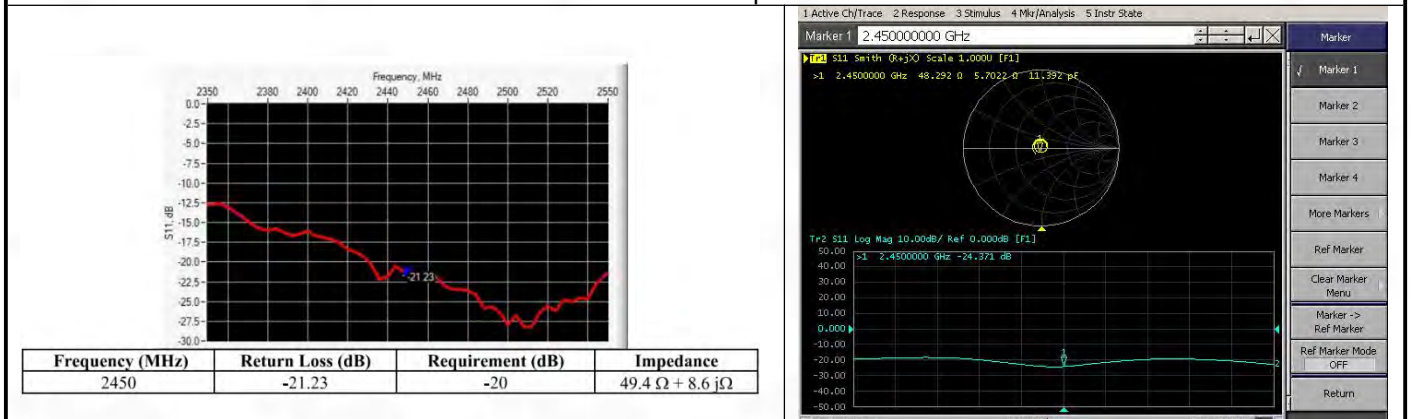
Dipole calibration report data	Self-examination data								
750MHz Dipole									
<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Return Loss (dB)</th> <th>Requirement (dB)</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>750</td> <td>-25.44</td> <td>-20</td> <td>55.2 Ω - 1.2 jΩ</td> </tr> </tbody> </table>	Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance	750	-25.44	-20	55.2 Ω - 1.2 j Ω	
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance						
750	-25.44	-20	55.2 Ω - 1.2 j Ω						
835MHz Dipole									
<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>Return Loss (dB)</th> <th>Requirement (dB)</th> <th>Impedance</th> </tr> </thead> <tbody> <tr> <td>835</td> <td>-26.27</td> <td>-20</td> <td>52.5 Ω - 4.2 jΩ</td> </tr> </tbody> </table>	Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance	835	-26.27	-20	52.5 Ω - 4.2 j Ω	
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance						
835	-26.27	-20	52.5 Ω - 4.2 j Ω						
1800MHz Dipole									



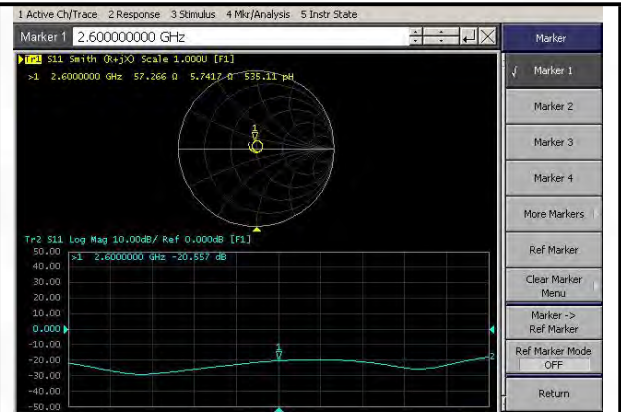
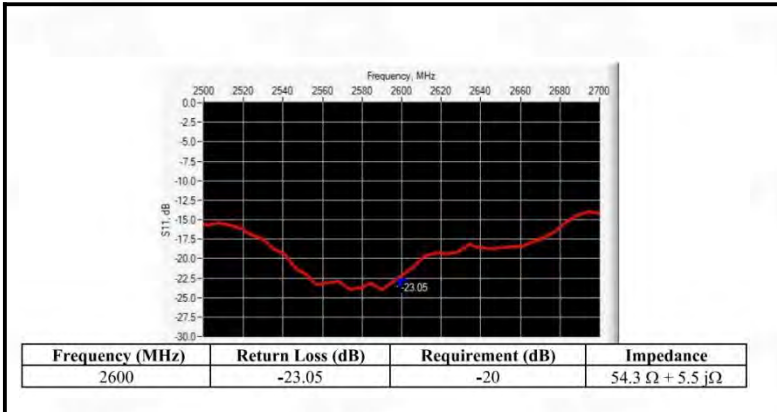
1900MHz Dipole



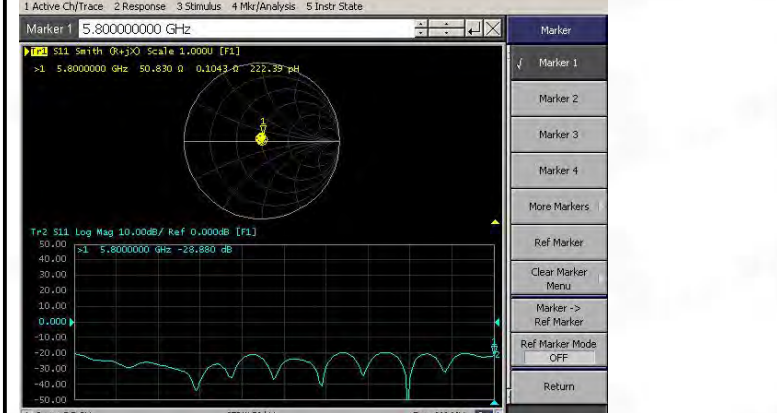
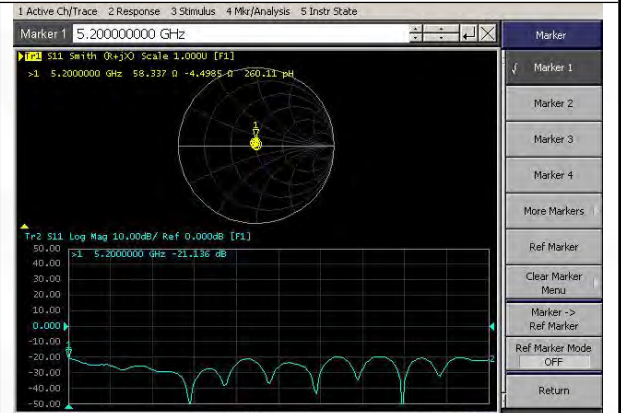
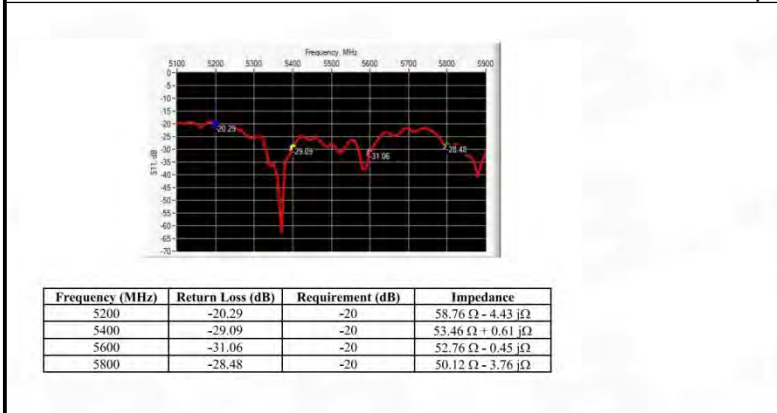
2450MHz Dipole



2600MHz Dipole



5000MHz Dipole



System Performance Check Data (750 MHz)

System check at 750 MHz

Date of measurement: 5/6/2024

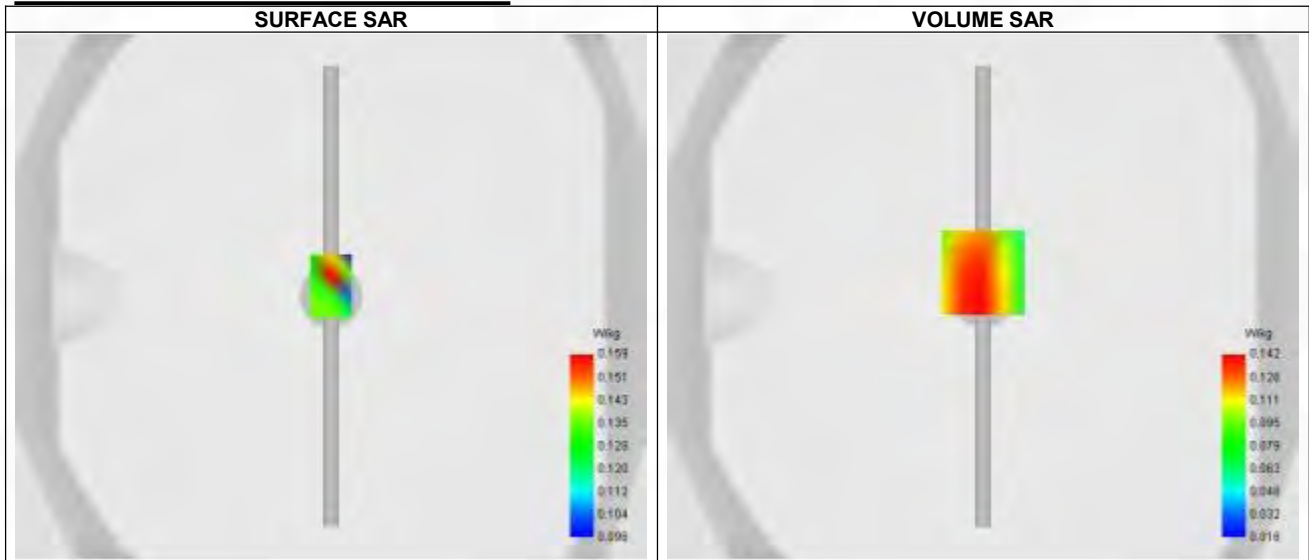
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.65
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	750.000
Relative permittivity (real part)	41.800
Relative permittivity (imaginary part)	21.460
Conductivity (S/m)	0.860

C. SAR Surface and Volume



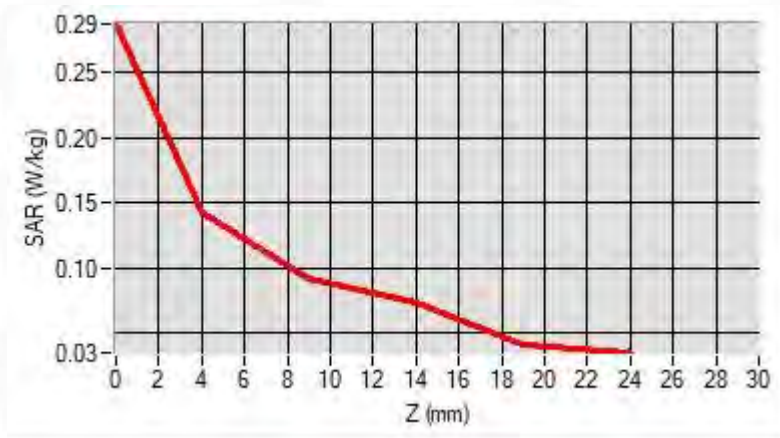
Maximum location: X=0.00, Y=9.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

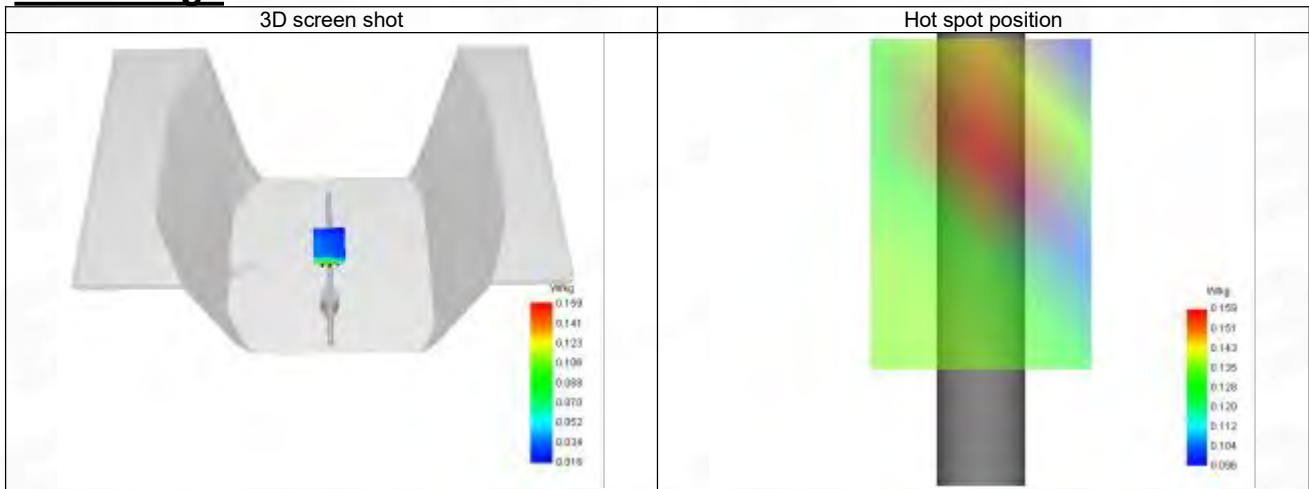
SAR 10g (W/Kg)	0.092
SAR 1g (W/Kg)	0.138
Variation (%)	-2.190
Horizontal validation criteria: minimum distance (mm)	9.285
Vertical validation criteria: SAR ratio M2/M1 (%)	64.79%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.287	0.142	0.092	0.073	0.042



F. 3D Image



System Performance Check Data (835 MHz)

System check at 835 MHz

Date of measurement: 6/6/2024

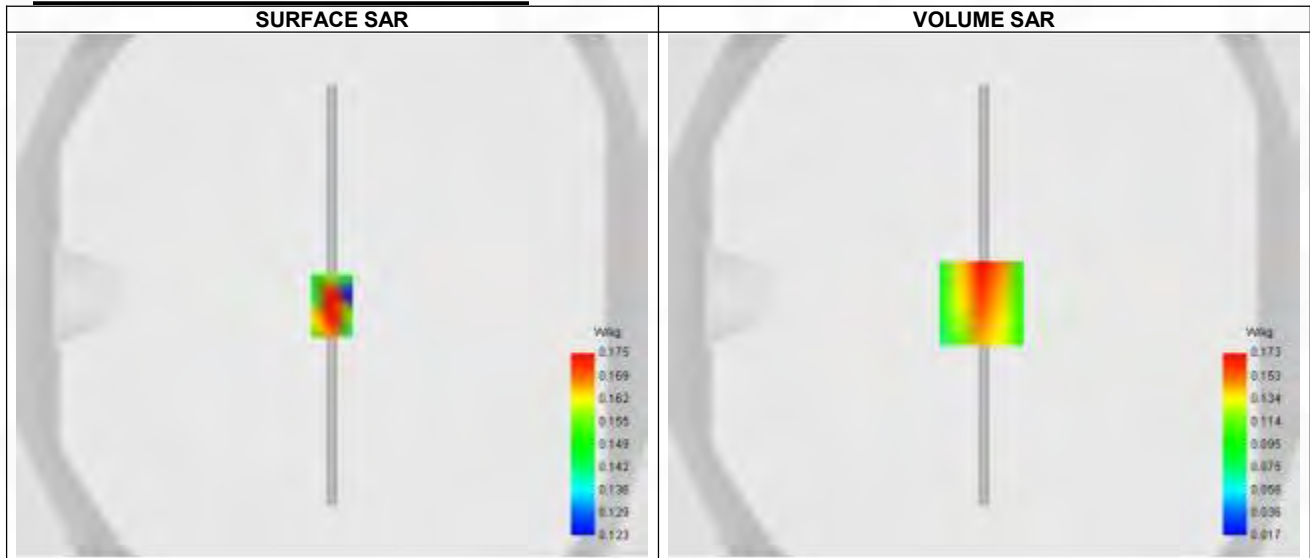
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	835.000
Relative permittivity (real part)	41.410
Relative permittivity (imaginary part)	19.490
Conductivity (S/m)	0.870

C. SAR Surface and Volume



Maximum location: X=-1.00, Y=-3.00 ; SAR Peak: 0.26 W/kg

D. SAR 1g & 10g

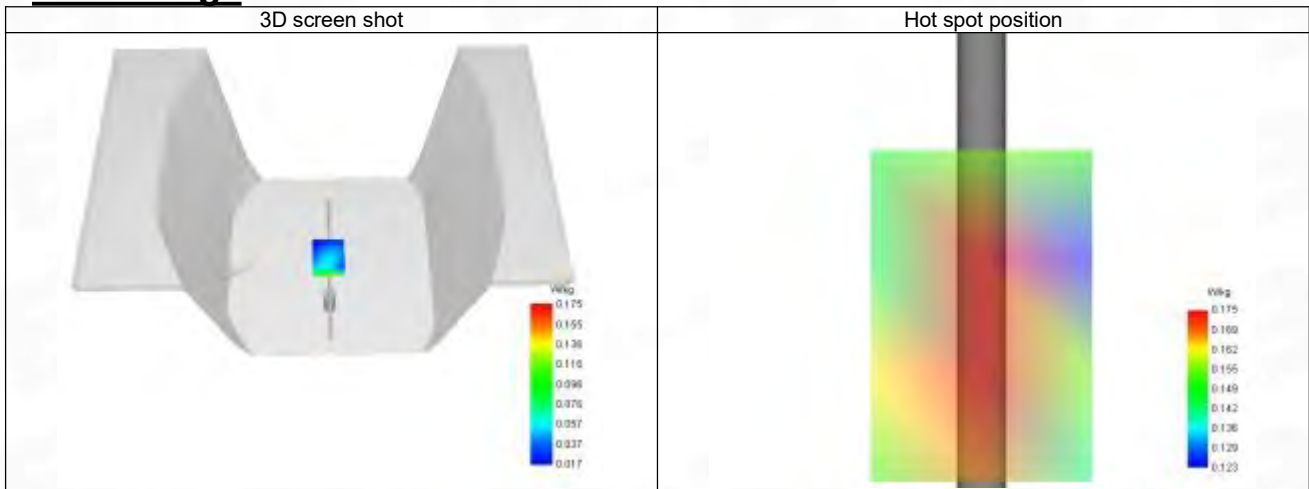
SAR 10g (W/Kg)	0.106
SAR 1g (W/Kg)	0.163
Variation (%)	-3.390
Horizontal validation criteria: minimum distance (mm)	8.487
Vertical validation criteria: SAR ratio M2/M1 (%)	66.47%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.059	0.173	0.115	0.061	0.072



F. 3D Image



System Performance Check Data (1800 MHz)

System check at 1800 MHz

Date of measurement: 7/6/2024

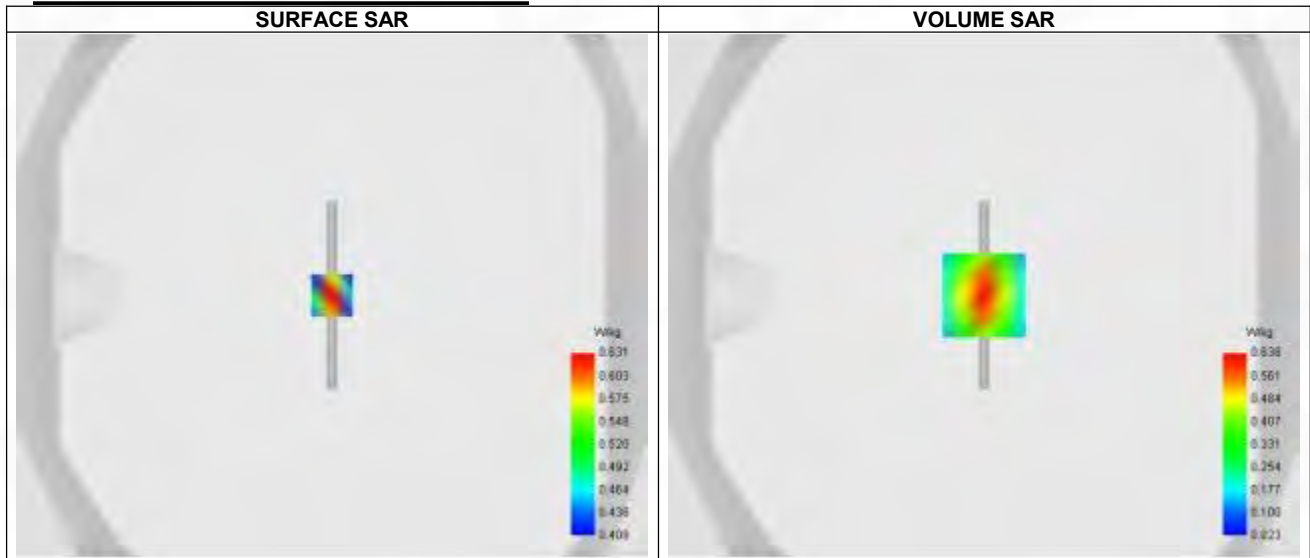
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.96
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	1800.000
Relative permittivity (real part)	39.910
Relative permittivity (imaginary part)	14.090
Conductivity (S/m)	1.370

C. SAR Surface and Volume



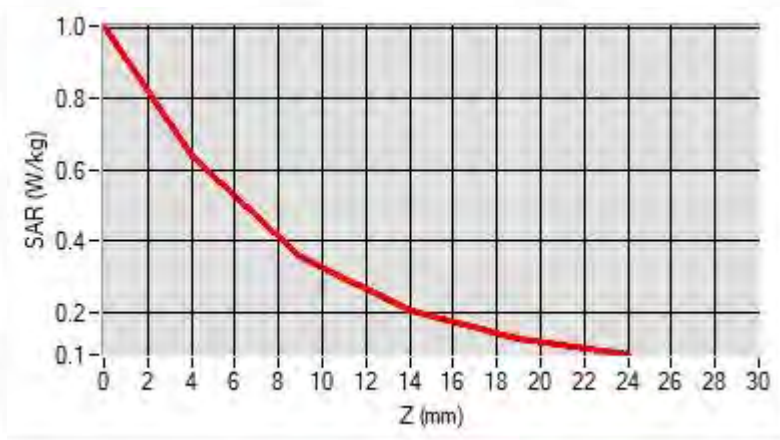
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.00 W/kg

D. SAR 1g & 10g

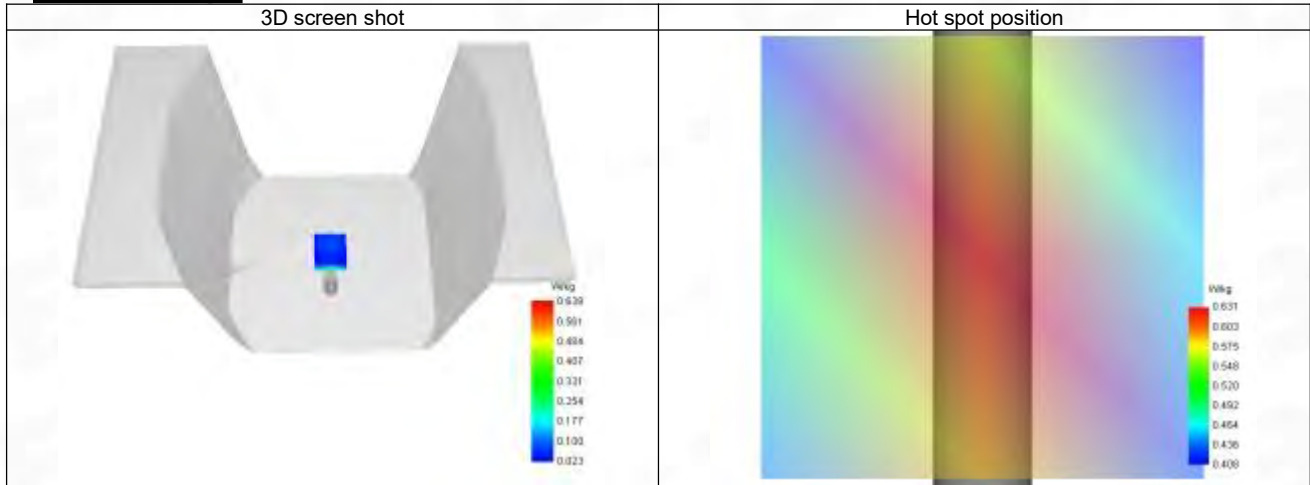
SAR 10g (W/Kg)	0.312
SAR 1g (W/Kg)	0.588
Variation (%)	-0.250
Horizontal validation criteria: minimum distance (mm)	8.698
Vertical validation criteria: SAR ratio M2/M1 (%)	55.80%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.003	0.638	0.356	0.204	0.127



F. 3D Image



System Performance Check Data (1900 MHz)

System check at 1900 MHz

Date of measurement: 43/4/2024

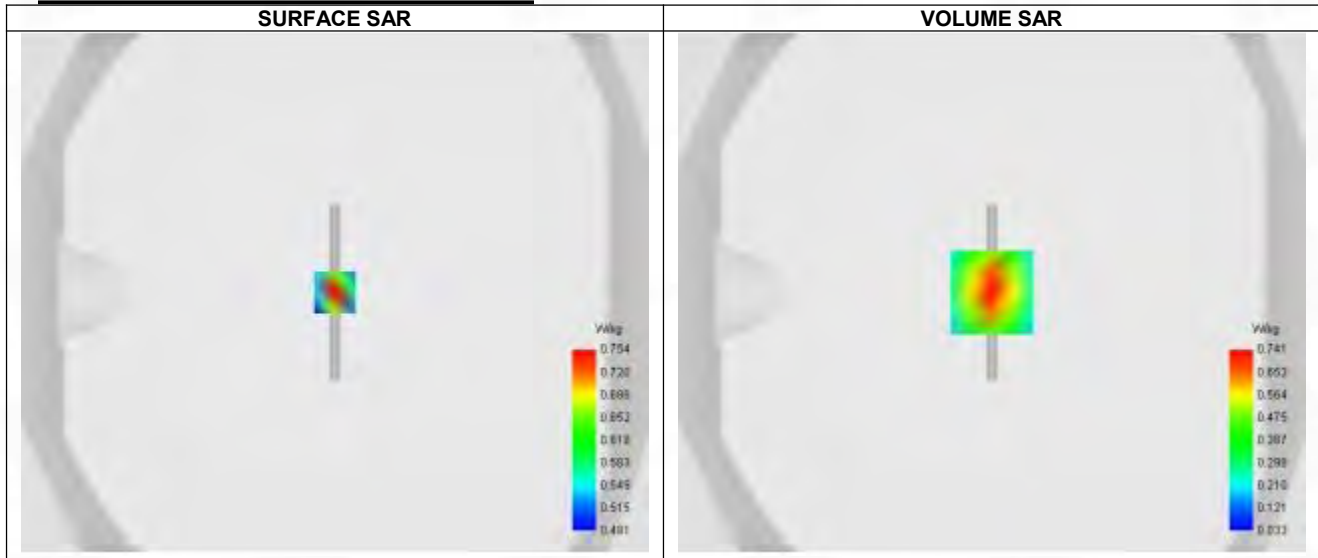
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.24
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	1900.000
Relative permittivity (real part)	39.880
Relative permittivity (imaginary part)	13.380
Conductivity (S/m)	1.410

C. SAR Surface and Volume



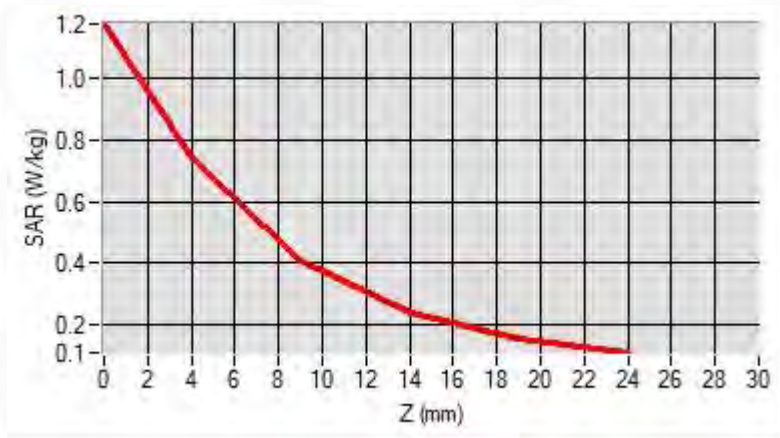
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.18 W/kg

D. SAR 1g & 10g

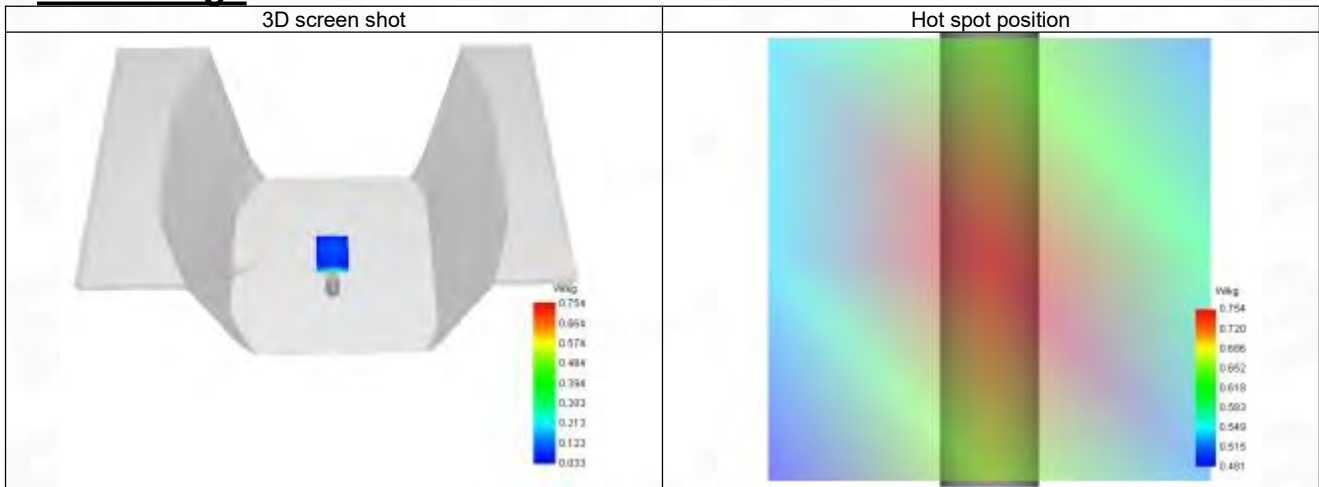
SAR 10g (W/Kg)	0.322
SAR 1g (W/Kg)	0.630
Variation (%)	-2.080
Horizontal validation criteria: minimum distance (mm)	8.699
Vertical validation criteria: SAR ratio M2/M1 (%)	52.96%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.201	0.759	0.402	0.239	0.156



F. 3D Image



System Performance Check Data (2450 MHz)

System check at 2450 MHz

Date of measurement: 12/6/2024

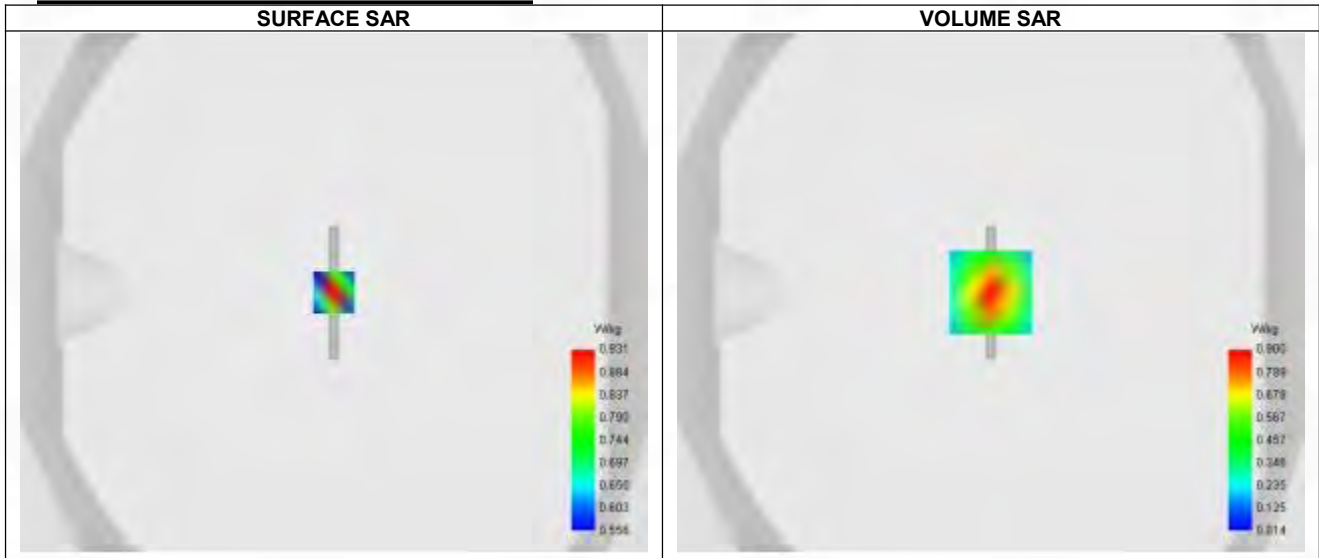
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.36
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=5mm dy=5mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	2450.000
Relative permittivity (real part)	39.080
Relative permittivity (imaginary part)	13.340
Conductivity (S/m)	1.810

C. SAR Surface and Volume



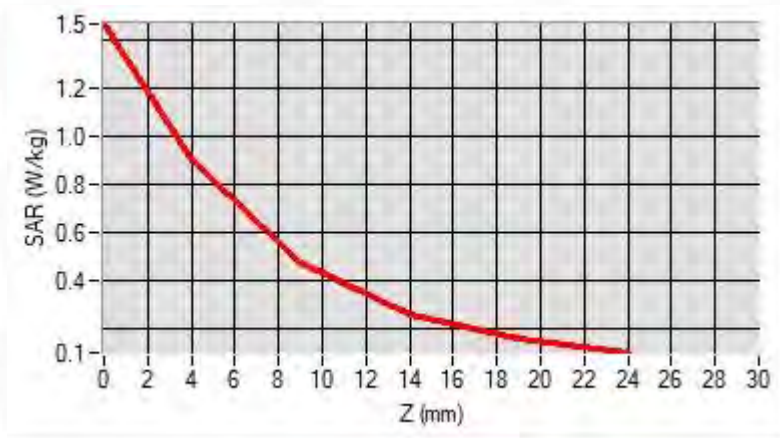
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.47 W/kg

D. SAR 1g & 10g

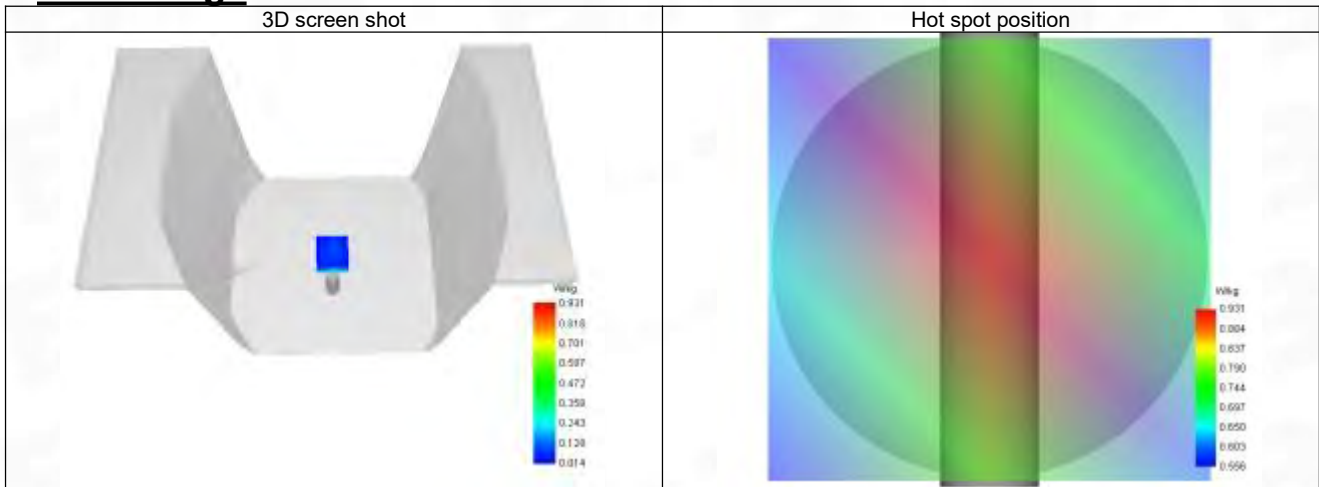
SAR 10g (W/Kg)	0.352
SAR 1g (W/Kg)	0.793
Variation (%)	-2.570
Horizontal validation criteria: minimum distance (mm)	9.787
Vertical validation criteria: SAR ratio M2/M1 (%)	53.00%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.466	0.900	0.477	0.261	0.158



F. 3D Image



System Performance Check Data (2600 MHz)

System check at 2600 MHz

Date of measurement: 13/6/2024

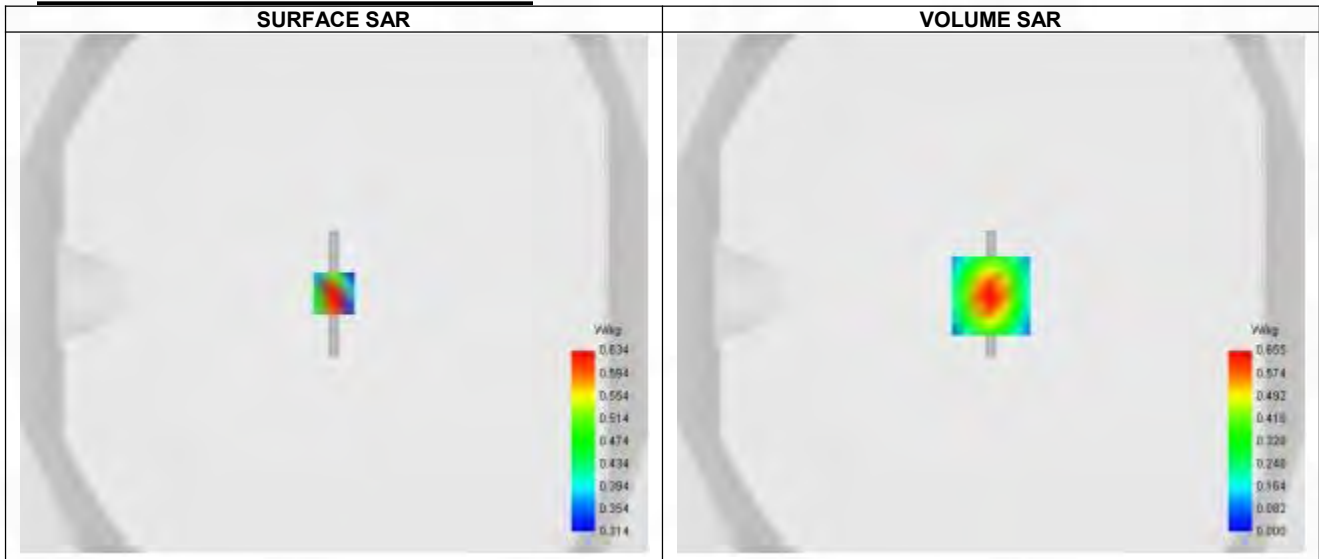
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.40
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=5mm dy=5mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	2600.000
Relative permittivity (real part)	38.880
Relative permittivity (imaginary part)	12.690
Conductivity (S/m)	1.970

C. SAR Surface and Volume



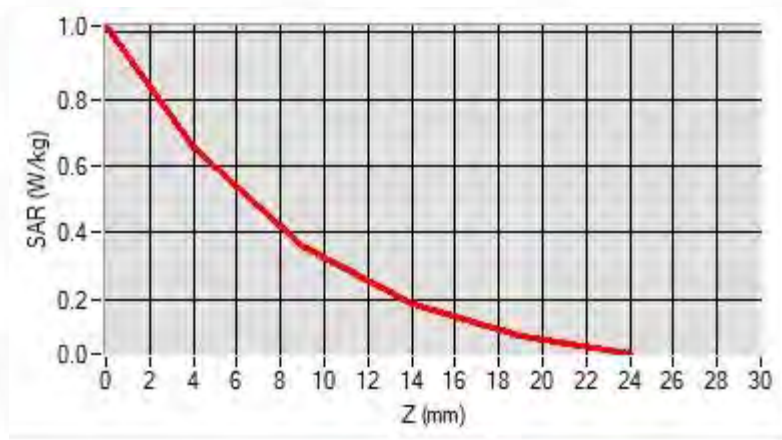
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 1.02 W/kg

D. SAR 1g & 10g

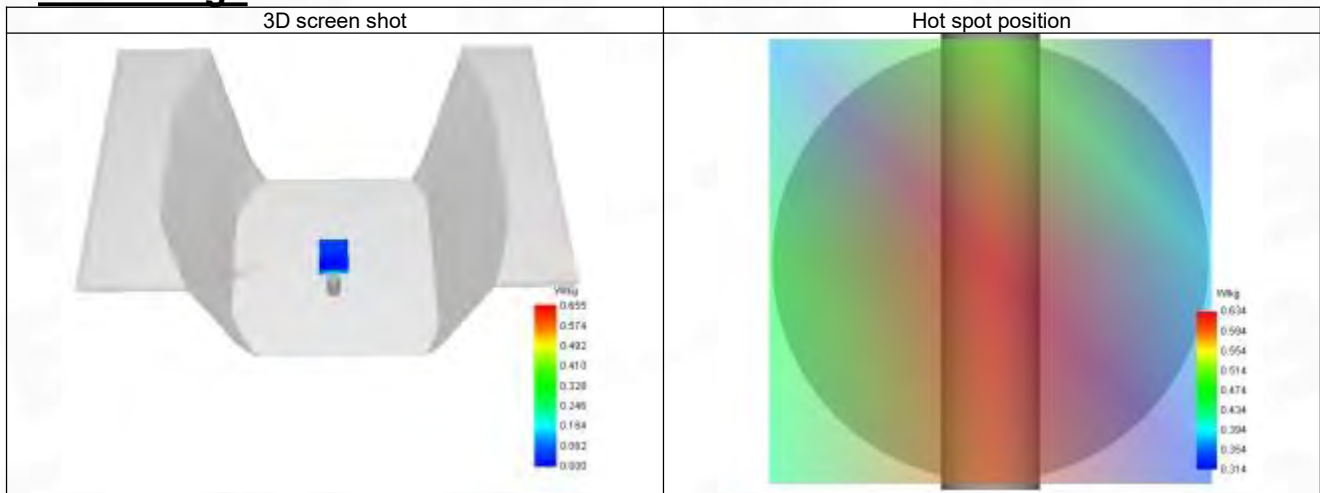
SAR 10g (W/Kg)	0.421
SAR 1g (W/Kg)	0.866
Variation (%)	2.980
Horizontal validation criteria: minimum distance (mm)	9.362
Vertical validation criteria: SAR ratio M2/M1 (%)	54.81%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.020	0.655	0.359	0.187	0.091



F. 3D Image



System Performance Check Data (5200 MHz)

System check at 5200 MHz

Date of measurement: 14/6/2024

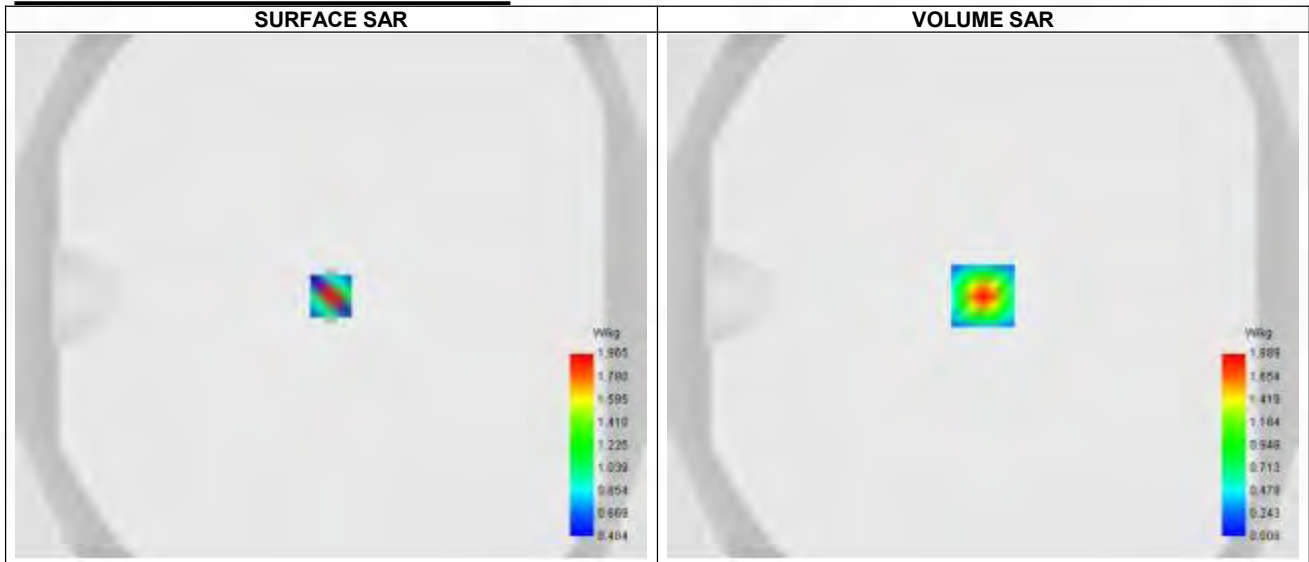
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.24
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x12, dx=4mm dy=4mm dz=2mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	5200.000
Relative permittivity (real part)	35.880
Relative permittivity (imaginary part)	16.250
Conductivity (S/m)	4.700

C. SAR Surface and Volume



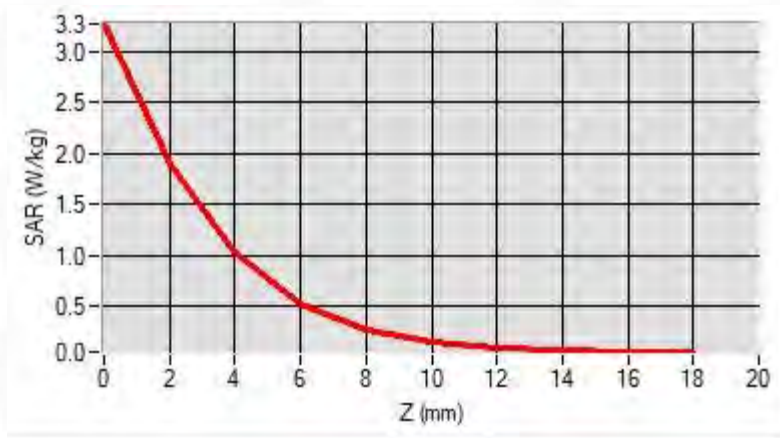
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 3.38 W/kg

D. SAR 1g & 10g

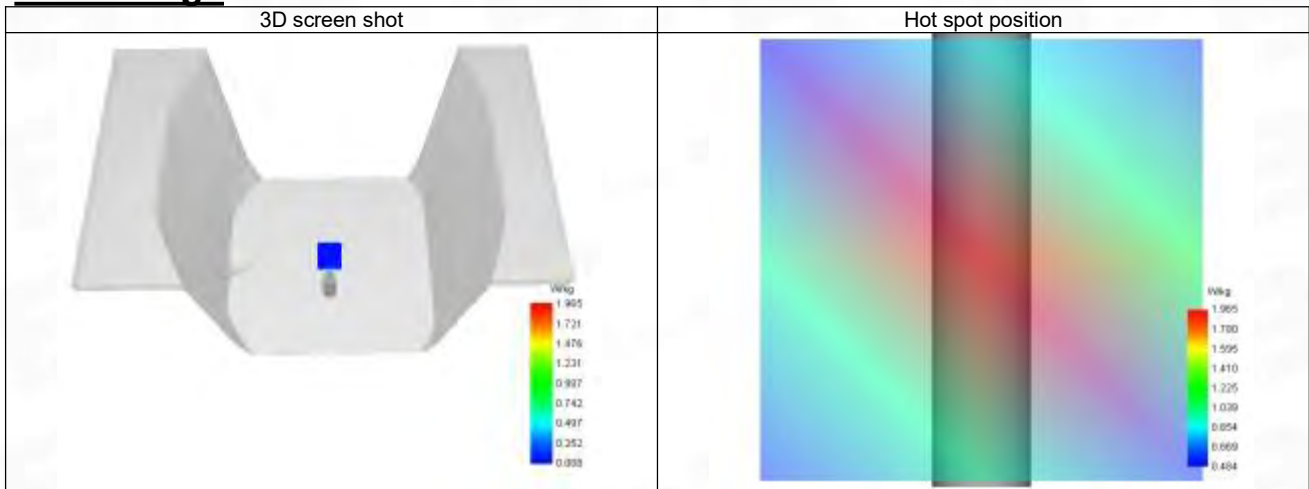
SAR 10g (W/Kg)	0.288
SAR 1g (W/Kg)	1.019
Variation (%)	-3.400
Horizontal validation criteria: minimum distance (mm)	6.287
Vertical validation criteria: SAR ratio M2/M1 (%)	54.05%

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)	3.268	1.889	1.021	0.523	0.266	0.142	0.085	0.060	0.052



F. 3D Image



System Performance Check Data (5800 MHz)

System check at 5800 MHz

Date of measurement: 14/6/2024

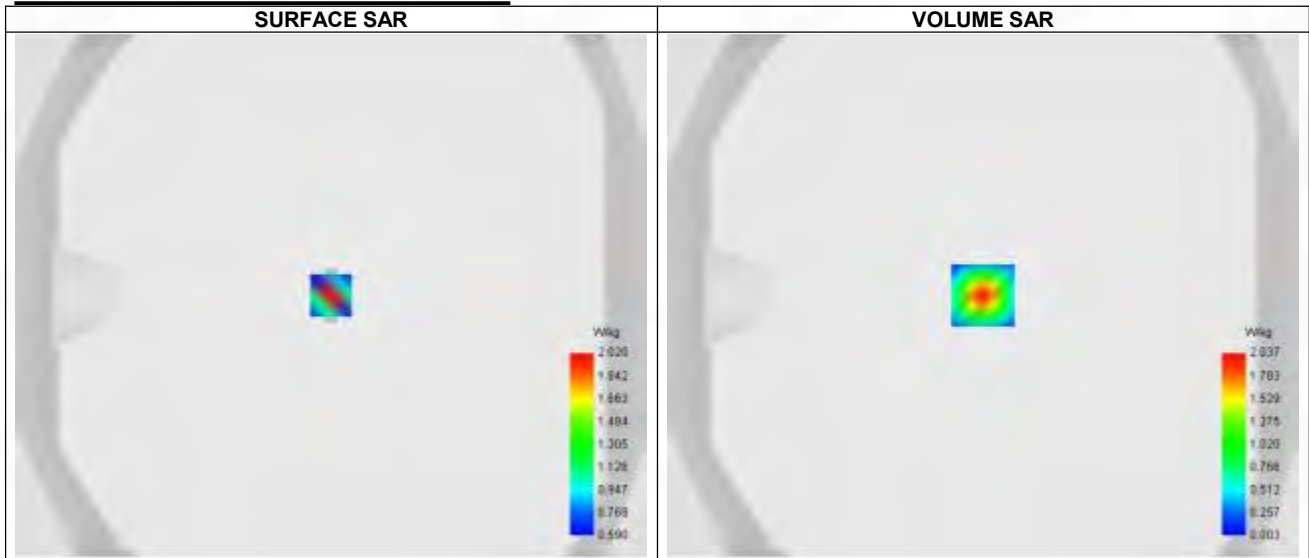
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.04
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x12, dx=4mm dy=4mm dz=2mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	5800.000
Relative permittivity (real part)	35.180
Relative permittivity (imaginary part)	16.480
Conductivity (S/m)	5.310

C. SAR Surface and Volume



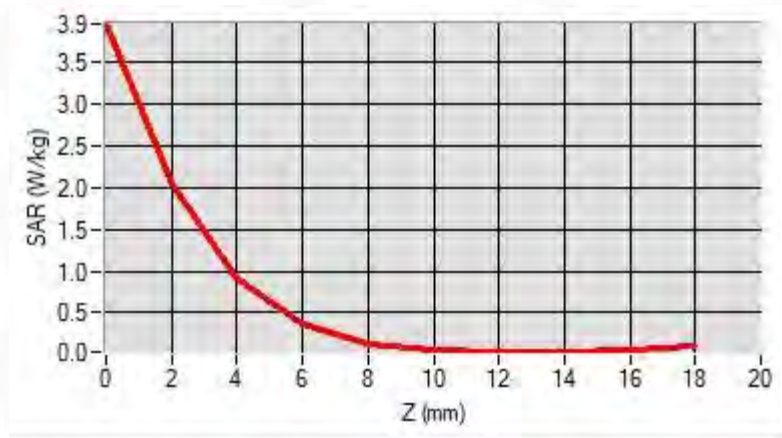
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 4.17 W/kg

D. SAR 1g & 10g

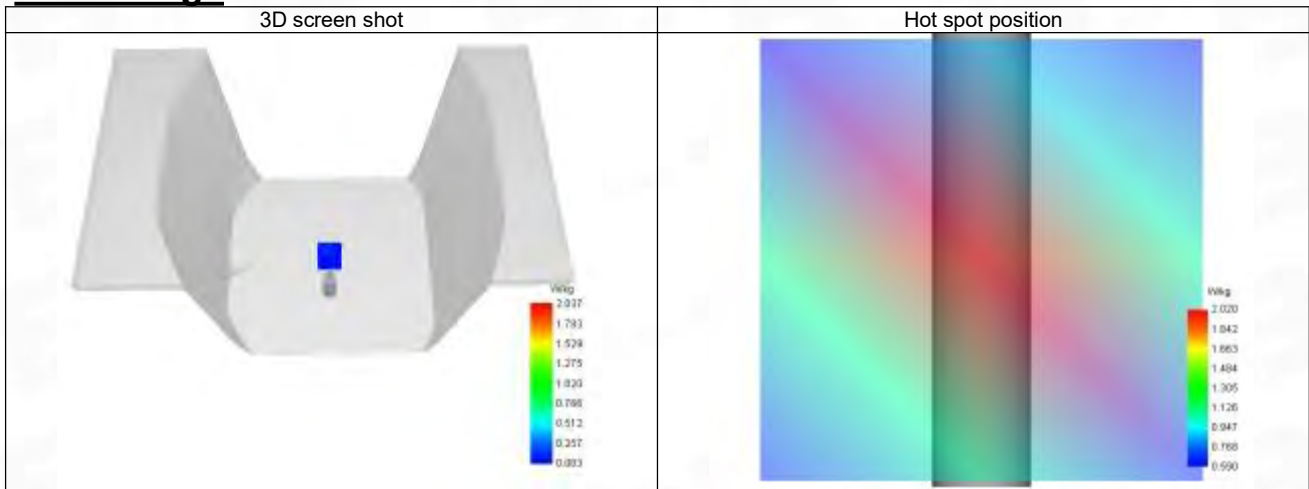
SAR 10g (W/Kg)	0.277
SAR 1g (W/Kg)	0.981
Variation (%)	0.490
Horizontal validation criteria: minimum distance (mm)	7.145
Vertical validation criteria: SAR ratio M2/M1 (%)	44.92%

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)	3.948	2.037	0.915	0.361	0.135	0.055	0.033	0.037	0.059



F. 3D Image



ANNEX D Test Data

1-Head with front position in dist. 0mm on Channel 128 in GSM850 voice

SAR Measurement at GSM850 (Cheek, Right)

Date of measurement: 6/6/2024

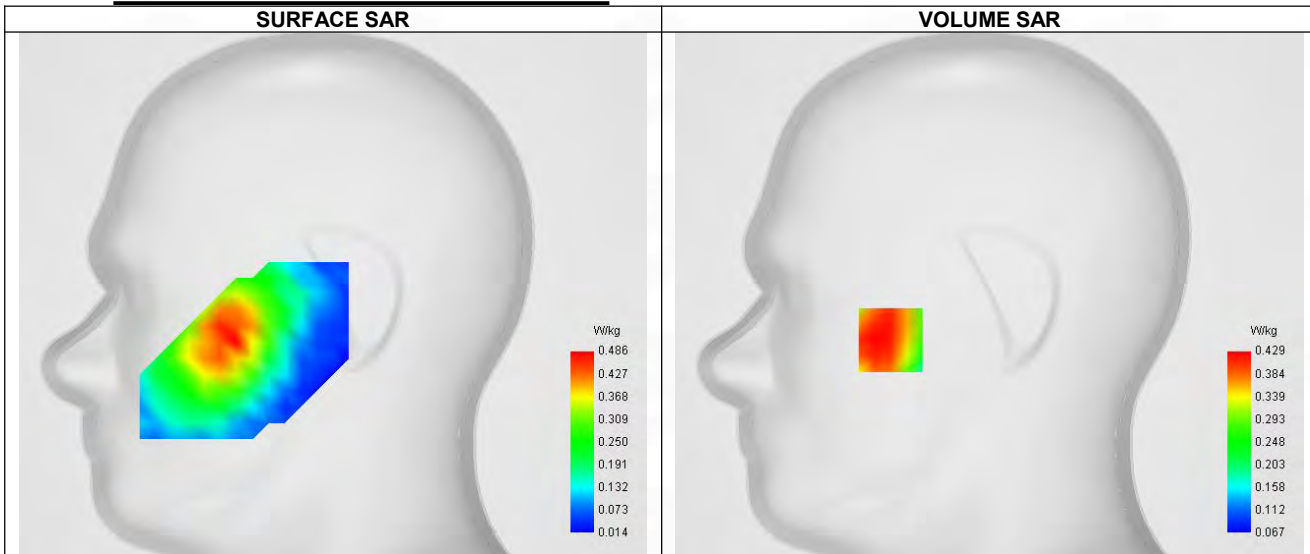
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Lower (128)
Signal	TDMA (GSM)
Modulation	GMSK

B. Permittivity

Frequency (MHz)	824.200
Relative permittivity (real part)	41.460
Relative permittivity (imaginary part)	19.740
Conductivity (S/m)	0.869

C. SAR Surface and Volume



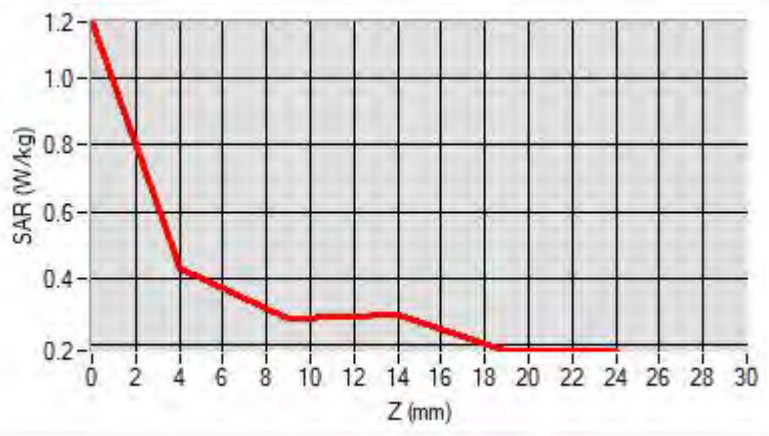
Maximum location: X=-49.00, Y=-23.00 ; SAR Peak: 0.51 W/kg

D. SAR 1g & 10g

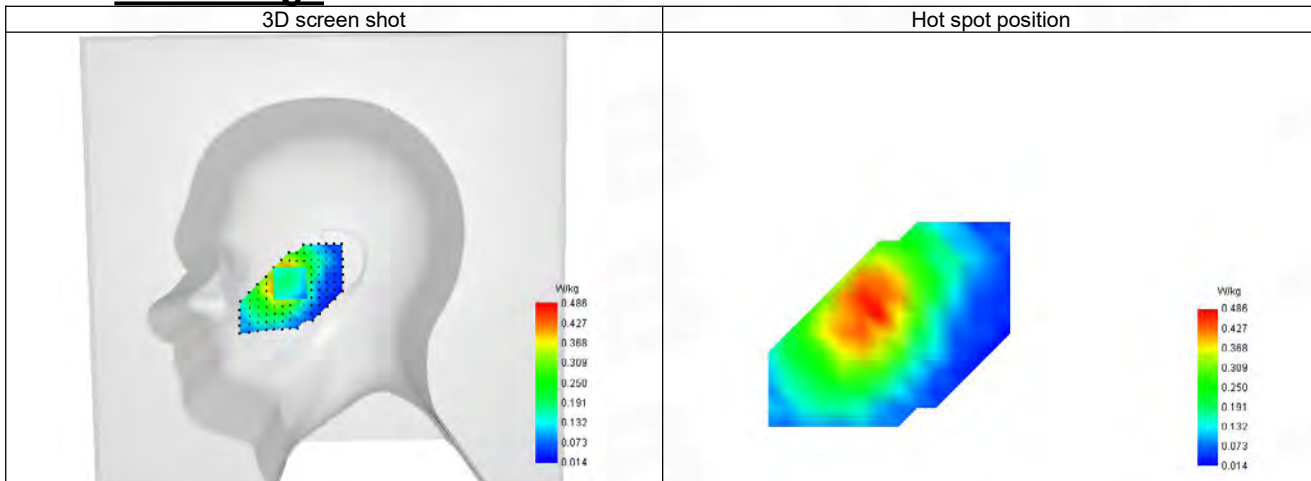
SAR 10g (W/Kg)	0.320
SAR 1g (W/Kg)	0.417
Variation (%)	-3.090
Horizontal validation criteria: minimum distance (mm)	8.567
Vertical validation criteria: SAR ratio M2/M1 (%)	65.50%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.169	0.429	0.281	0.291	0.184



F. 3D Image



2-Body with back position in dist. 10mm on Channel 128 in GPRS850+4slots

SAR Measurement at GPRS850 (Body, Validation Plane)

Date of measurement: 6/6/2024

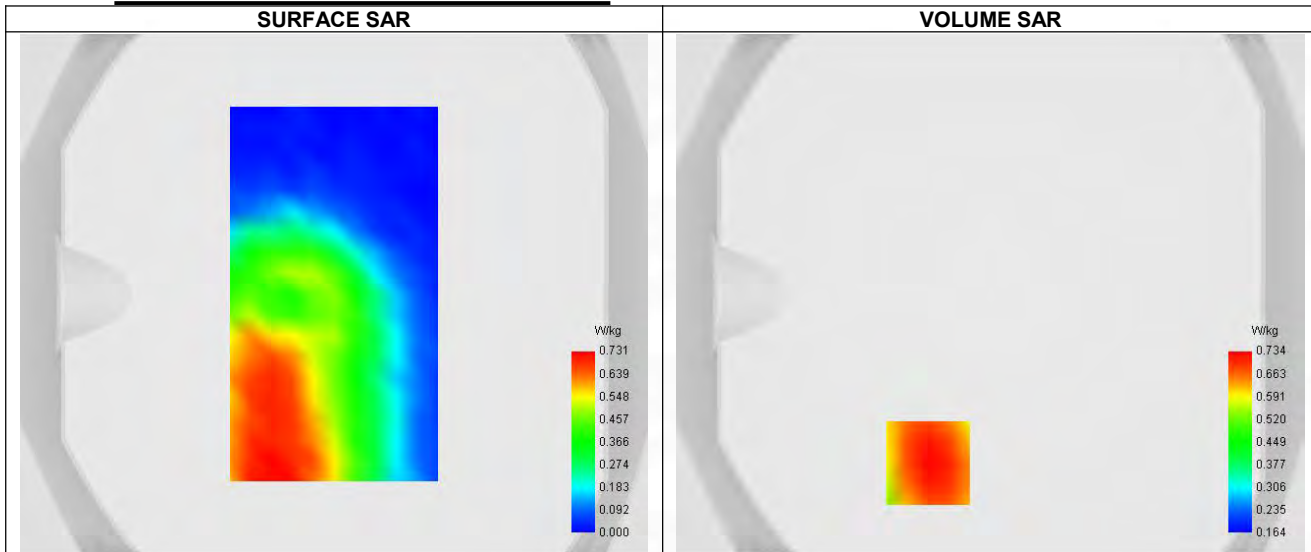
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Channels	Lower (128)
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	4

B. Permittivity

Frequency (MHz)	824.200
Relative permittivity (real part)	41.460
Relative permittivity (imaginary part)	19.740
Conductivity (S/m)	0.869

C. SAR Surface and Volume



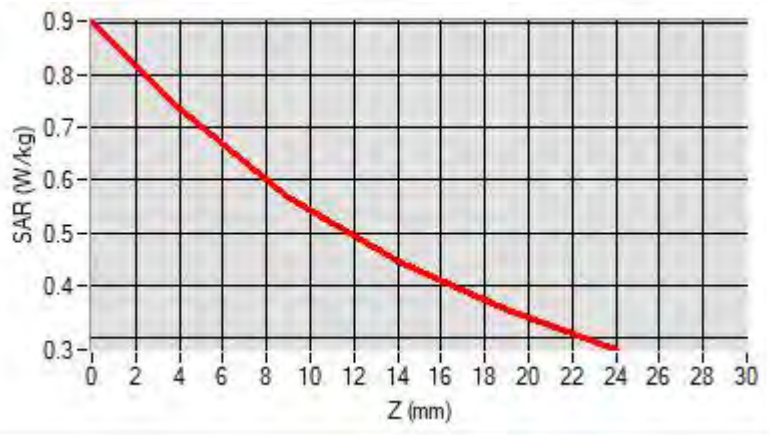
Maximum location: X=-24.00, Y=-65.00 ; SAR Peak: 0.91 W/kg

D. SAR 1g & 10g

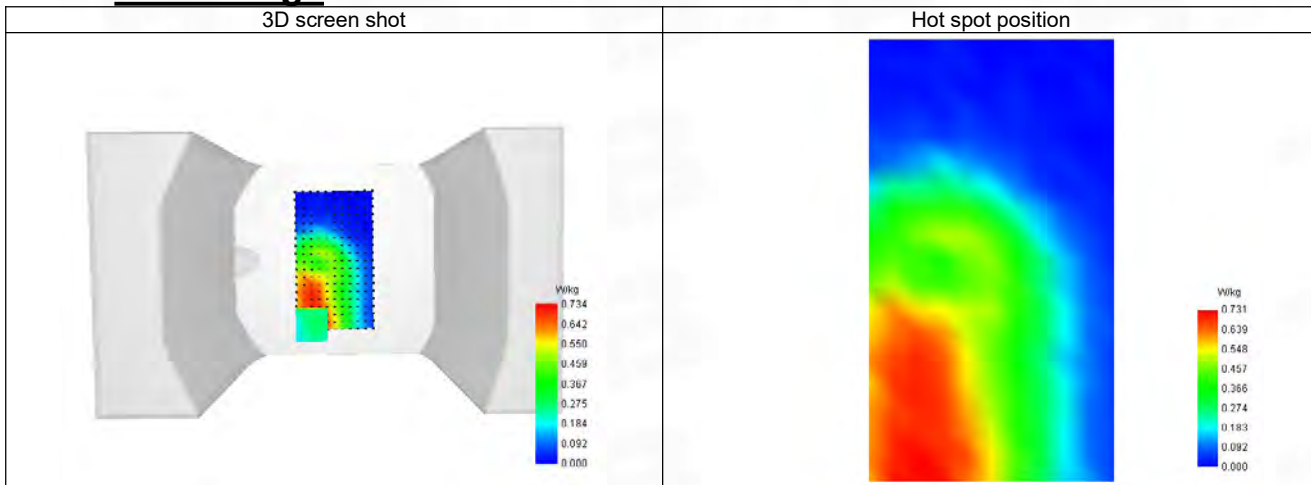
SAR 10g (W/Kg)	0.532
SAR 1g (W/Kg)	0.710
Variation (%)	-2.630
Horizontal validation criteria: minimum distance (mm)	9.514
Vertical validation criteria: SAR ratio M2/M1 (%)	69.21%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.903	0.734	0.508	0.445	0.353



F. 3D Image



3-Head with front position in dist. 0mm on Channel 810 in GSM1900 voice

SAR Measurement at GSM1900 (Cheek, Right)

Date of measurement: 11/6/2024

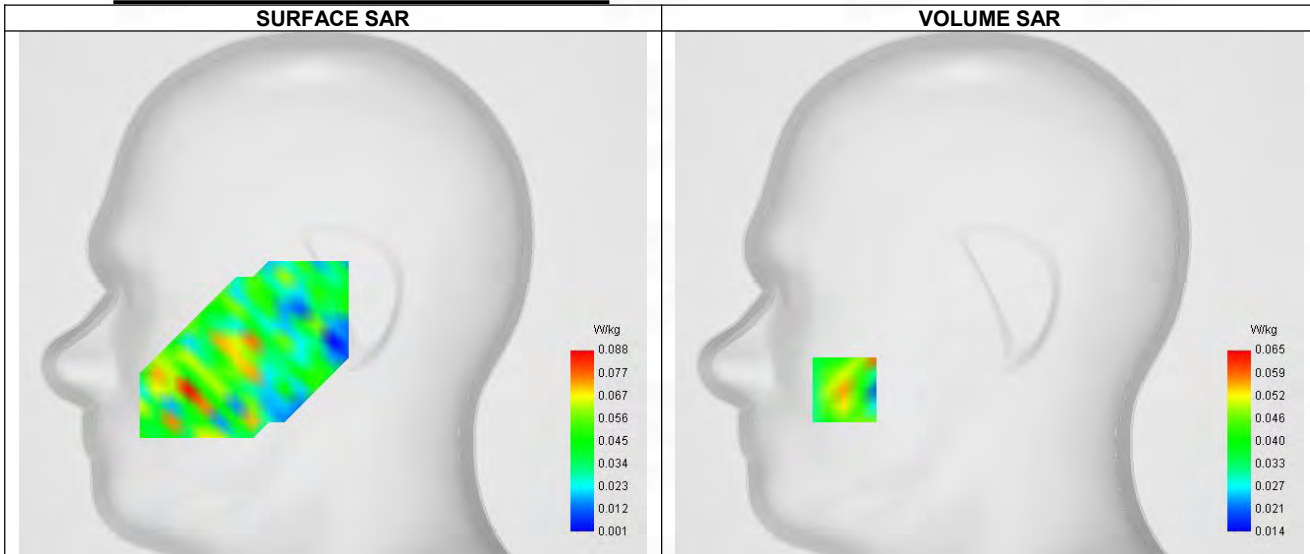
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.07
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Higher (810)
Signal	TDMA (GSM)
Modulation	GMSK

B. Permittivity

Frequency (MHz)	1909.800
Relative permittivity (real part)	39.866
Relative permittivity (imaginary part)	13.379
Conductivity (S/m)	1.417

C. SAR Surface and Volume



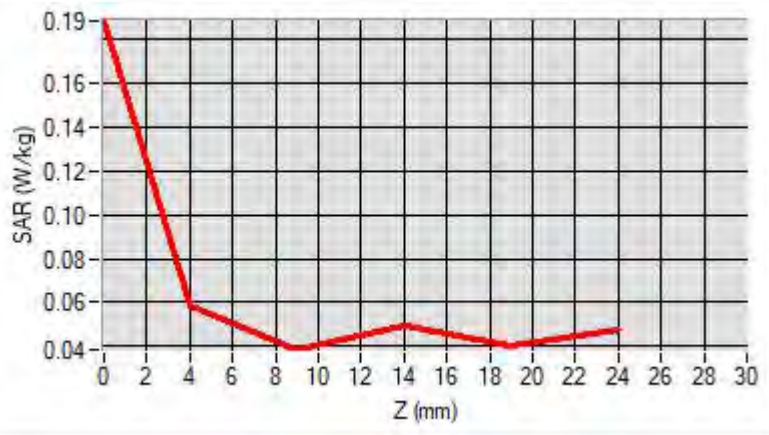
Maximum location: X=-72.00, Y=-48.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

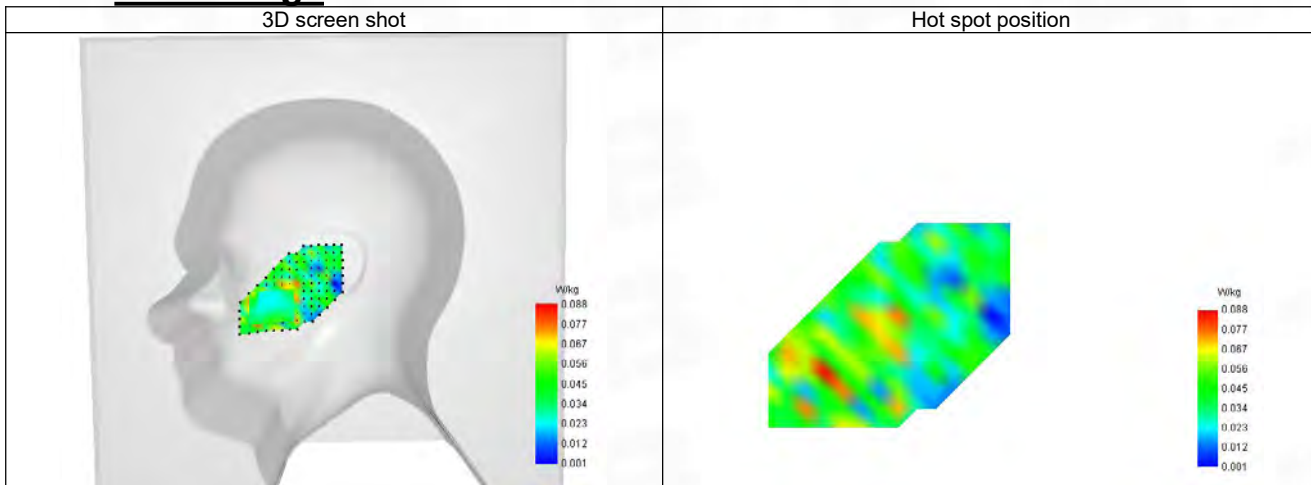
SAR 10g (W/Kg)	0.043
SAR 1g (W/Kg)	0.057
Variation (%)	-2.770
Horizontal validation criteria: minimum distance (mm)	8.636
Vertical validation criteria: SAR ratio M2/M1 (%)	66.10%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.188	0.059	0.039	0.050	0.041



F. 3D Image



4-Body with bottom position in dist. 10mm on Channel 810 in GPRS1900+4slots

SAR Measurement at GPRS1900 (Body, Validation Plane)

Date of measurement: 11/6/2024

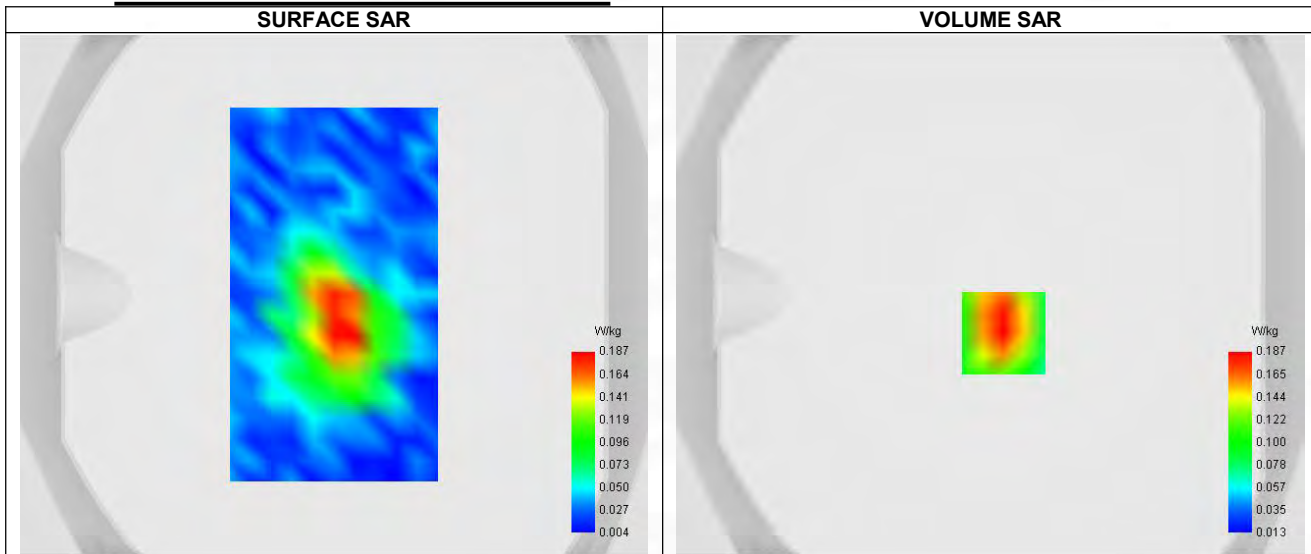
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.07
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Channels	Higher (810)
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	4

B. Permittivity

Frequency (MHz)	1909.800
Relative permittivity (real part)	39.866
Relative permittivity (Imaginary part)	13.379
Conductivity (S/m)	1.417

C. SAR Surface and Volume



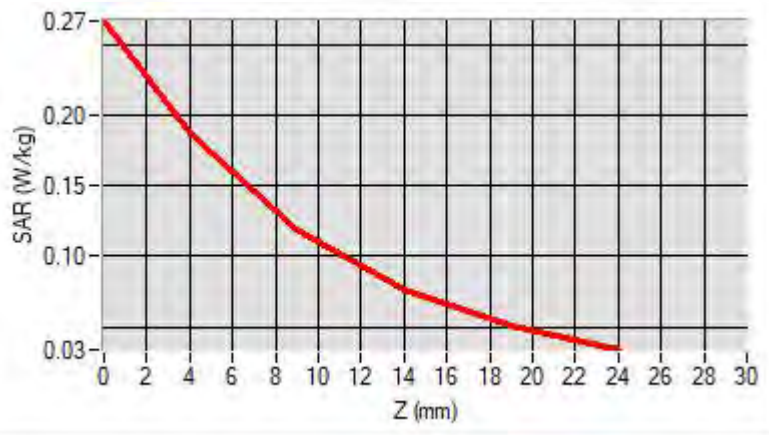
Maximum location: X=5.00, Y=-15.00 ; SAR Peak: 0.27 W/kg

D. SAR 1g & 10g

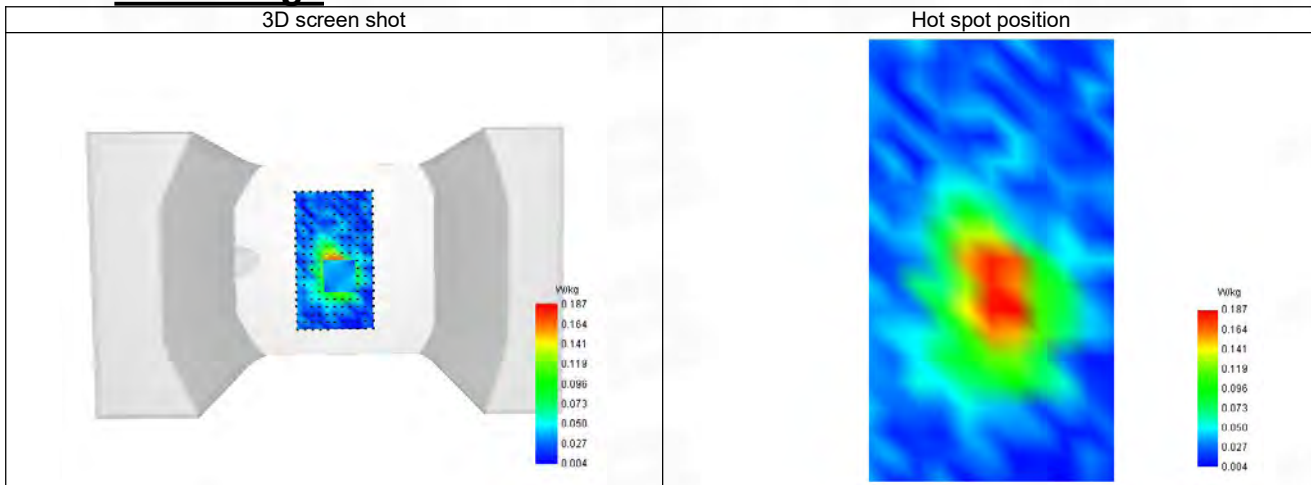
SAR 10g (W/Kg)	0.110
SAR 1g (W/Kg)	0.180
Variation (%)	-3.140
Horizontal validation criteria: minimum distance (mm)	8.715
Vertical validation criteria: SAR ratio M2/M1 (%)	63.64%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.267	0.187	0.119	0.077	0.051



F. 3D Image



5-Head with front position in dist. 0mm on Channel 9262 in WCDMA Band 2

SAR Measurement at Band 2 (1900) (Cheek, Right)

Date of measurement: 7/6/2024

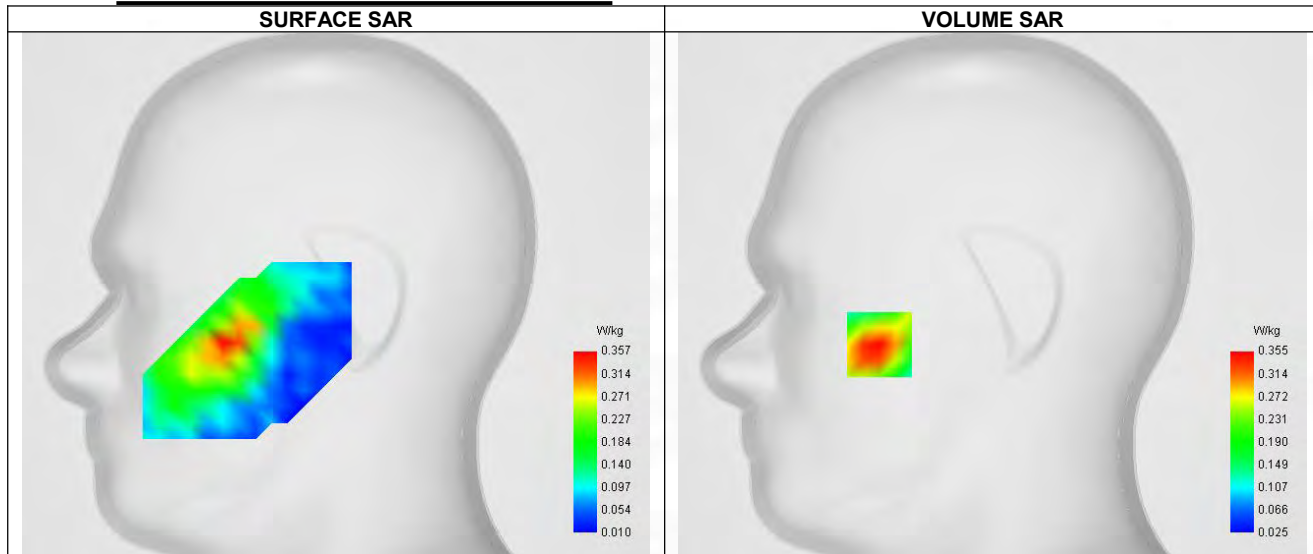
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.07
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	Band 2 (1900)
Channels	Lower (9262)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1852.400
Relative permittivity (real part)	39.894
Relative permittivity (imaginary part)	13.718
Conductivity (S/m)	1.391

C. SAR Surface and Volume



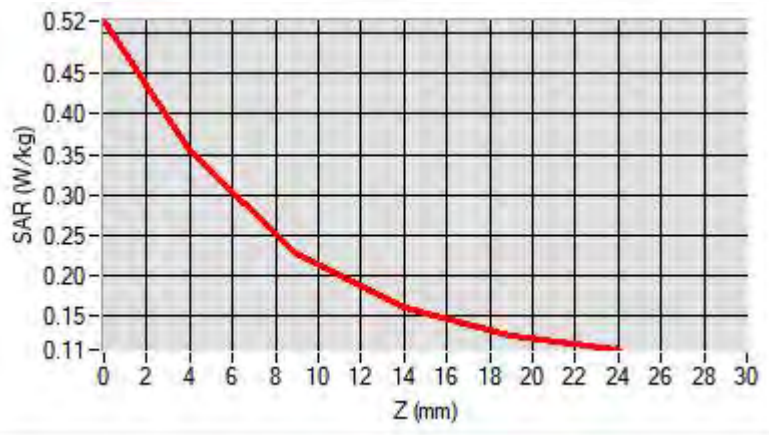
Maximum location: X=-56.00, Y=-25.00 ; SAR Peak: 0.53 W/kg

D. SAR 1g & 10g

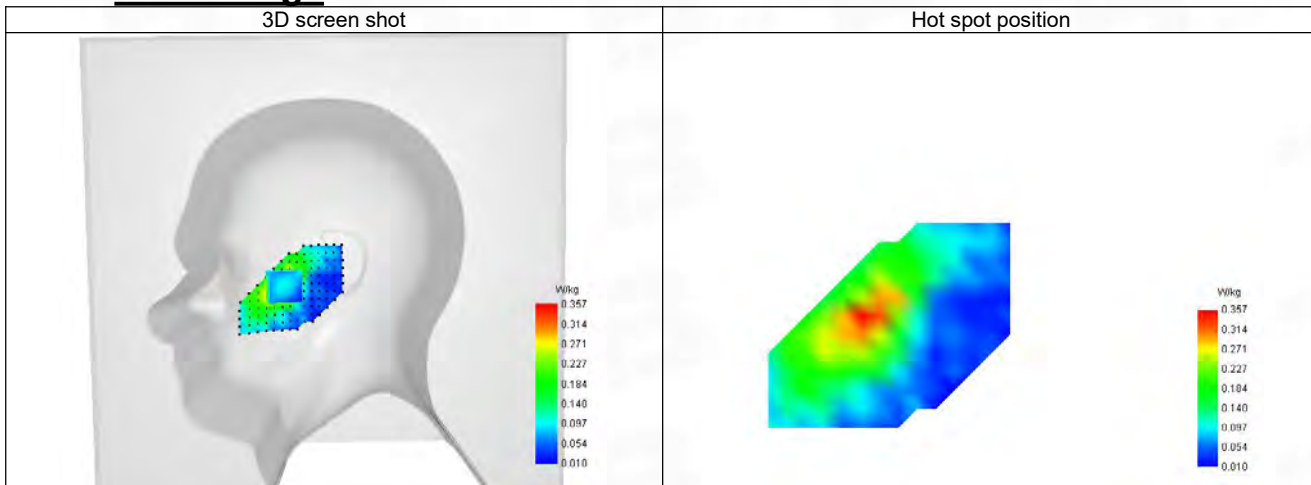
SAR 10g (W/Kg)	0.214
SAR 1g (W/Kg)	0.342
Variation (%)	-3.030
Horizontal validation criteria: minimum distance (mm)	8.265
Vertical validation criteria: SAR ratio M2/M1 (%)	63.94%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.516	0.355	0.227	0.158	0.125



F. 3D Image



6-Body with bottom position in dist. 10mm on Channel 9262 in WCDMA Band 2

SAR Measurement at Band 2 (1900) (Body, Validation Plane)

Date of measurement: 7/6/2024

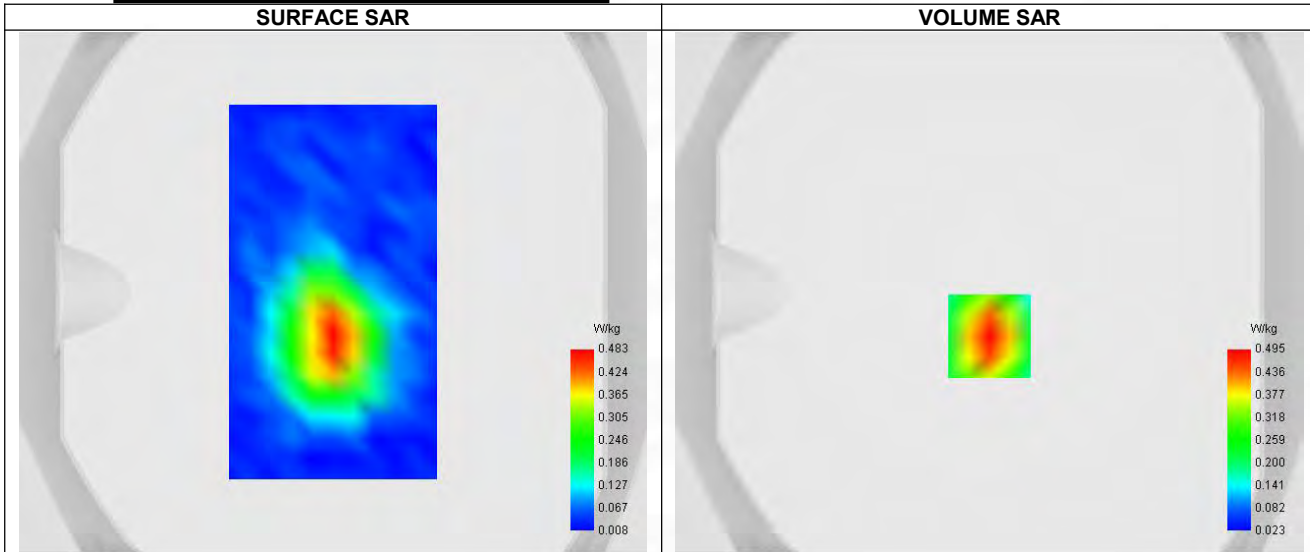
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.07
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 2 (1900)
Channels	Lower (9262)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1852.400
Relative permittivity (real part)	39.894
Relative permittivity (imaginary part)	13.718
Conductivity (S/m)	1.391

C. SAR Surface and Volume



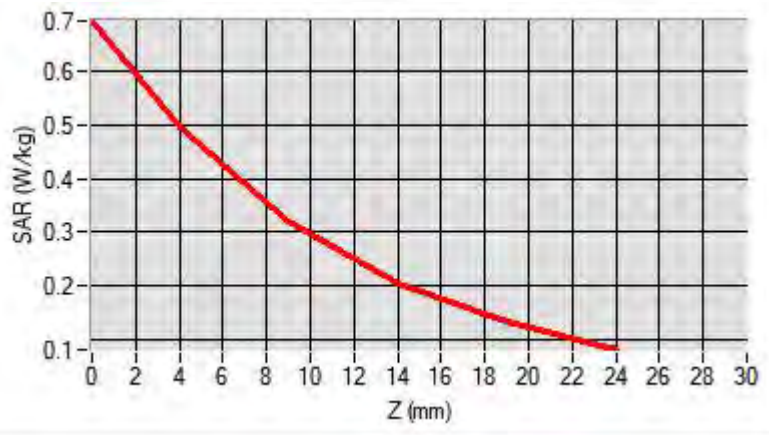
Maximum location: X=0.00, Y=-17.00 ; SAR Peak: 0.69 W/kg

D. SAR 1g & 10g

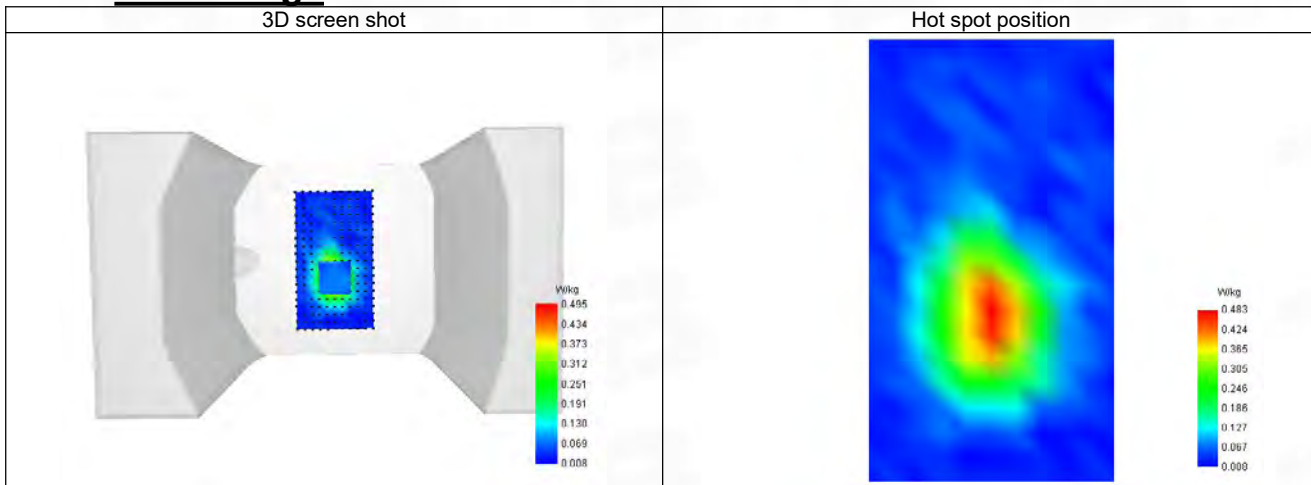
SAR 10g (W/Kg)	0.271
SAR 1g (W/Kg)	0.464
Variation (%)	-3.640
Horizontal validation criteria: minimum distance (mm)	9.625
Vertical validation criteria: SAR ratio M2/M1 (%)	64.65%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.694	0.495	0.320	0.205	0.132



F. 3D Image



7-Head with front position in dist. 0mm on Channel 1413 in WCDMA Band 4

SAR Measurement at Band 4 (1700) (Cheek, Right)

Date of measurement: 7/6/2024

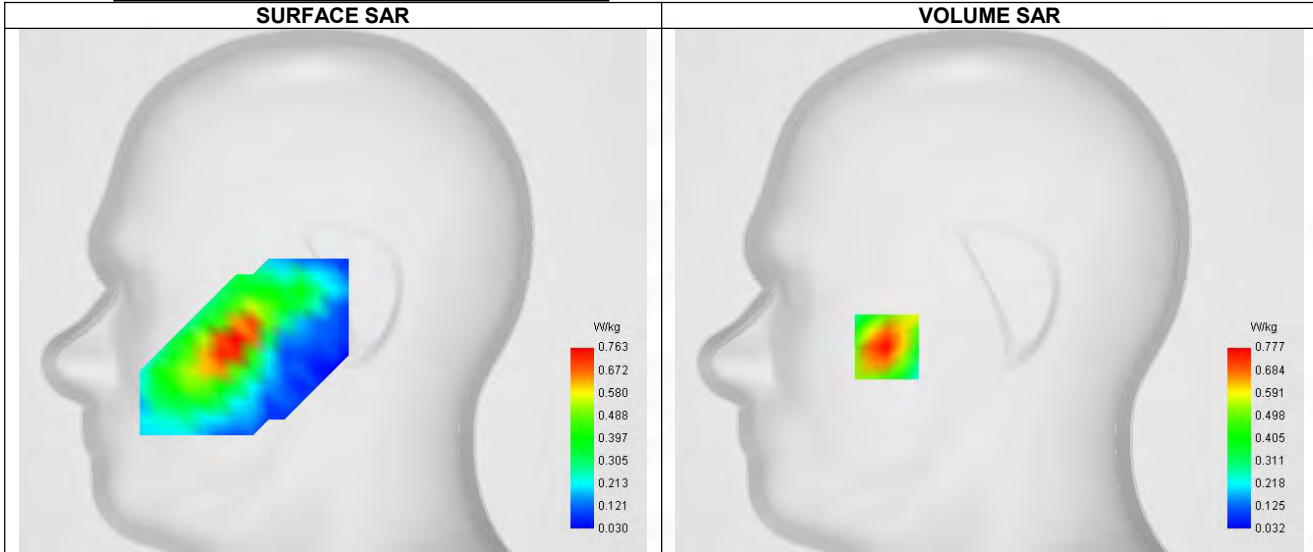
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	Band 4 (1700)
Channels	Middle (1413)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1732.600
Relative permittivity (real part)	40.015
Relative permittivity (imaginary part)	14.467
Conductivity (S/m)	1.335

C. SAR Surface and Volume



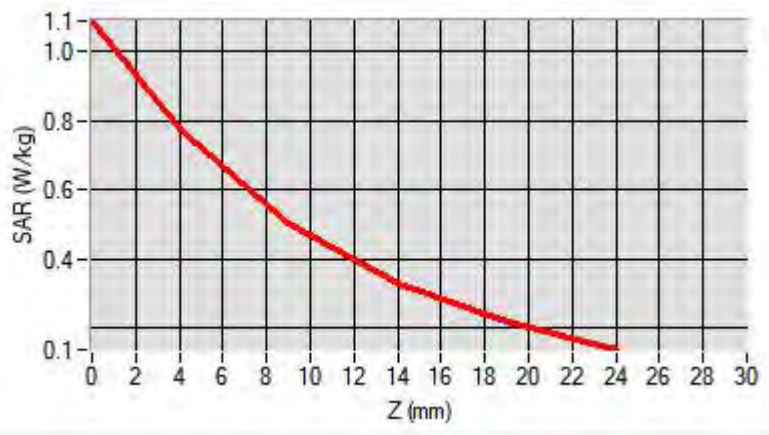
Maximum location: X=-51.00, Y=-28.00 ; SAR Peak: 1.09 W/kg

D. SAR 1g & 10g

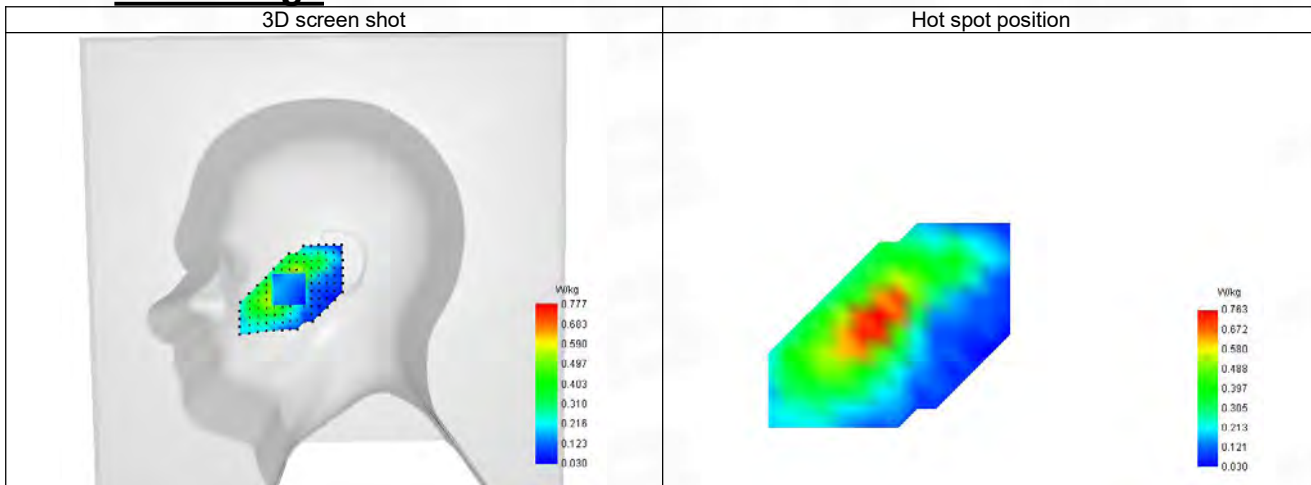
SAR 10g (W/Kg)	0.444
SAR 1g (W/Kg)	0.729
Variation (%)	-1.110
Horizontal validation criteria: minimum distance (mm)	9.514
Vertical validation criteria: SAR ratio M2/M1 (%)	64.99%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.087	0.777	0.505	0.329	0.217



F. 3D Image



8-Body with bottom position in dist. 10mm on Channel 1413 in WCDMA Band 4

SAR Measurement at Band 4 (1700) (Body, Validation Plane)

Date of measurement: 7/6/2024

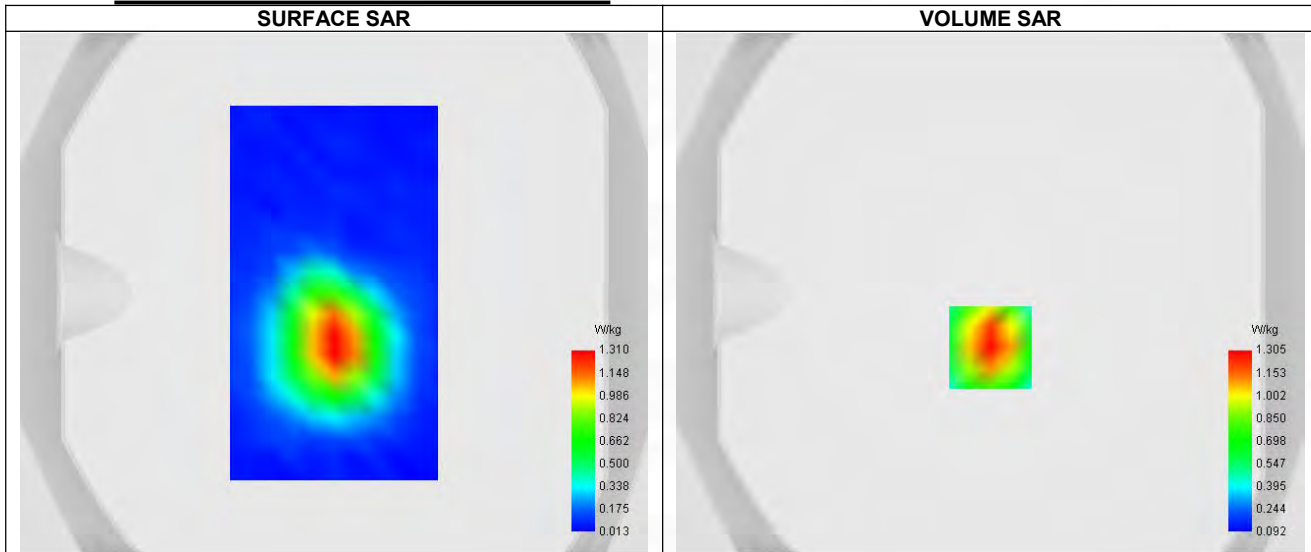
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 4 (1700)
Channels	Middle (1413)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1732.600
Relative permittivity (real part)	40.015
Relative permittivity (imaginary part)	14.467
Conductivity (S/m)	1.335

C. SAR Surface and Volume



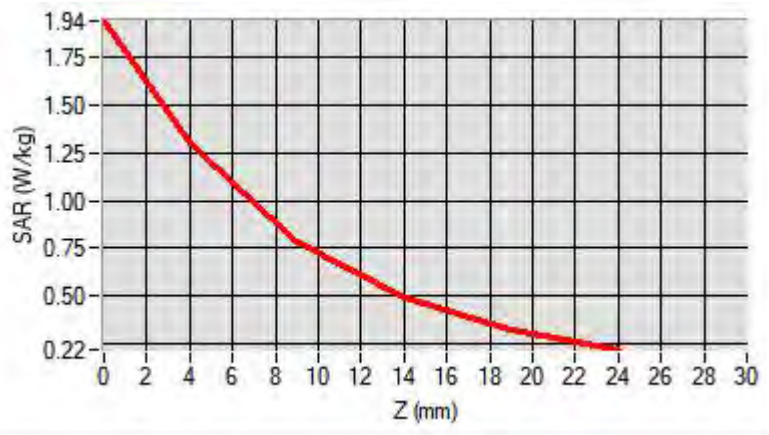
Maximum location: X=0.00, Y=-21.00 ; SAR Peak: 1.95 W/kg

D. SAR 1g & 10g

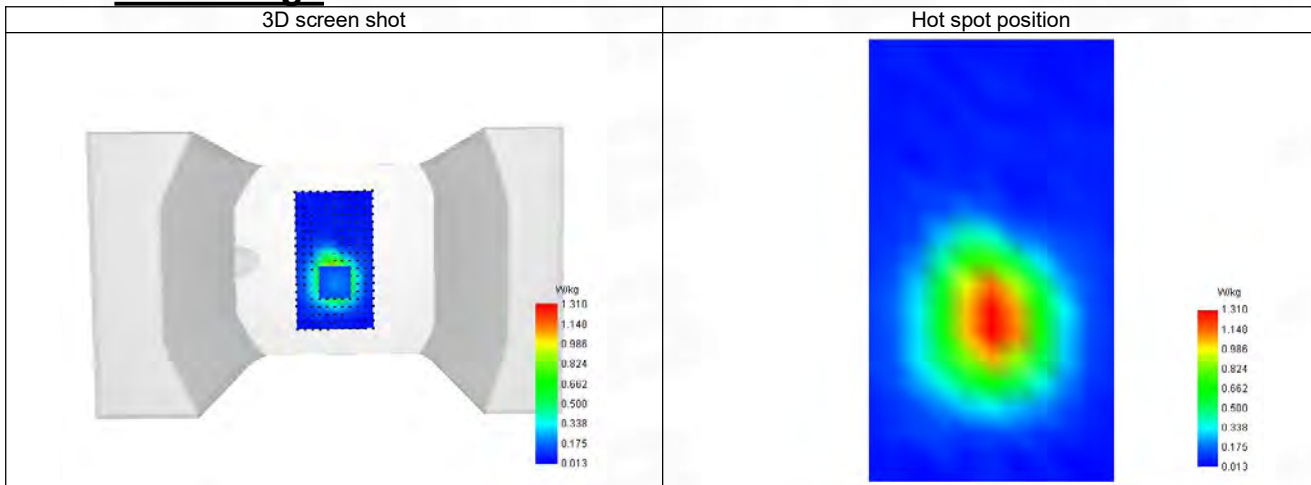
SAR 10g (W/Kg)	0.701
SAR 1g (W/Kg)	1.122
Variation (%)	-3.830
Horizontal validation criteria: minimum distance (mm)	8.669
Vertical validation criteria: SAR ratio M2/M1 (%)	60.31%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.944	1.305	0.787	0.489	0.324



F. 3D Image



9-Head with front position in dist. 0mm on Channel 4132 in WCDMA Band 5

SAR Measurement at Band 5 (850) (Cheek, Right)

Date of measurement: 6/6/2024

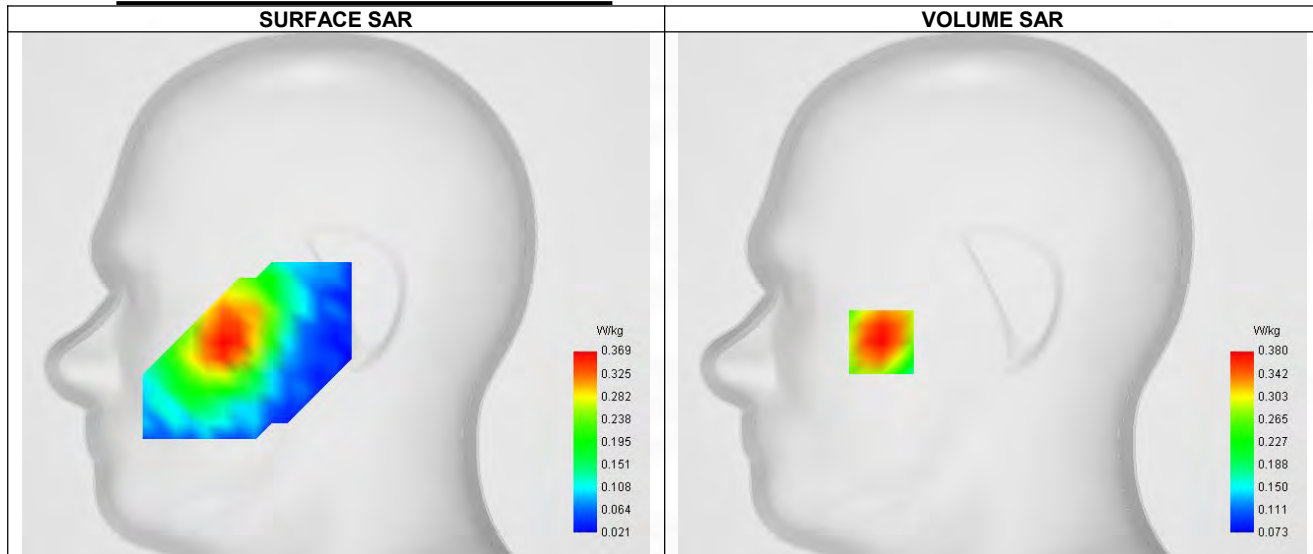
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	Band 5 (850)
Channels	Lower (4132)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	826.400
Relative permittivity (real part)	41.449
Relative permittivity (imaginary part)	19.689
Conductivity (S/m)	0.869

C. SAR Surface and Volume



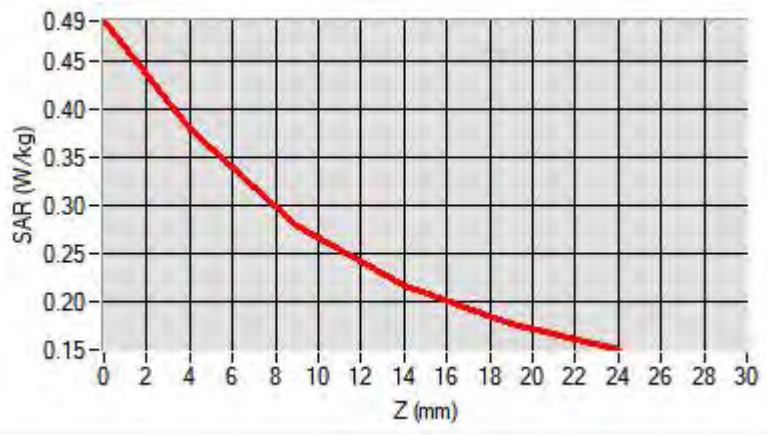
Maximum location: X=-55.00, Y=-24.00 ; SAR Peak: 0.49 W/kg

D. SAR 1g & 10g

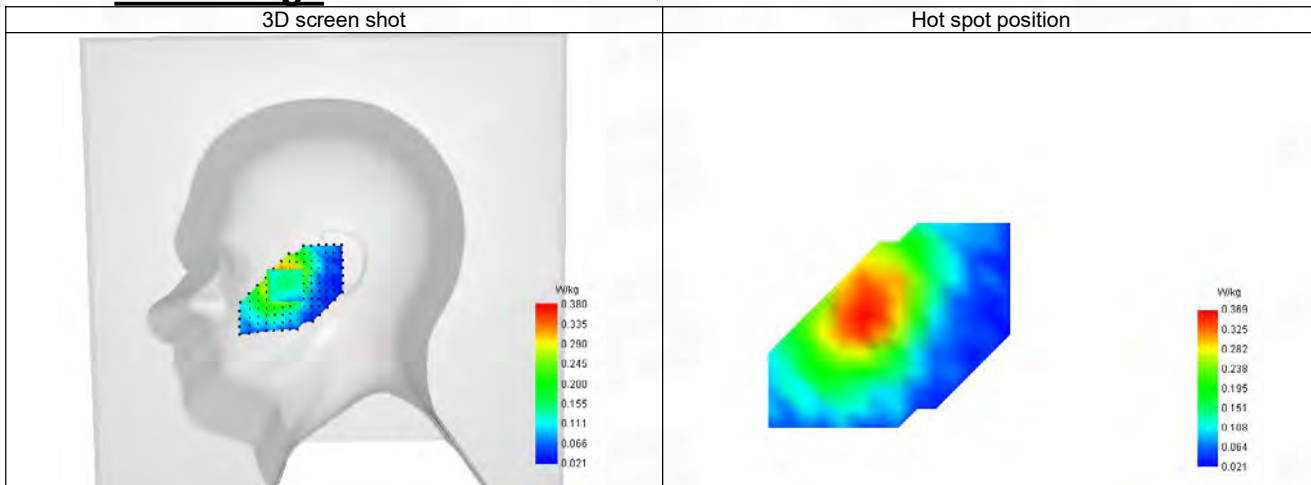
SAR 10g (W/Kg)	0.265
SAR 1g (W/Kg)	0.366
Variation (%)	-3.370
Horizontal validation criteria: minimum distance (mm)	8.474
Vertical validation criteria: SAR ratio M2/M1 (%)	65.79%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.493	0.380	0.250	0.217	0.178



F. 3D Image



10-Body with back position in dist. 10mm on Channel 4132 in WCDMA Band 5

SAR Measurement at Band 5 (850) (Body, Validation Plane)

Date of measurement: 6/6/2024

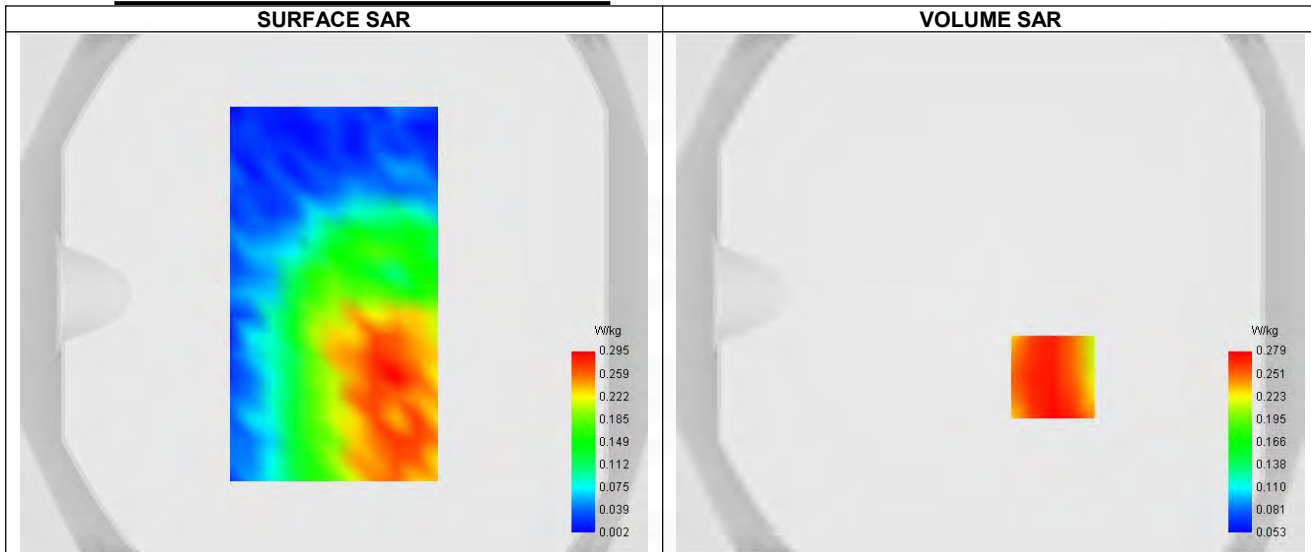
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 5 (850)
Channels	Lower (4132)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	826.400
Relative permittivity (real part)	41.423
Relative permittivity (imaginary part)	19.538
Conductivity (S/m)	0.866

C. SAR Surface and Volume



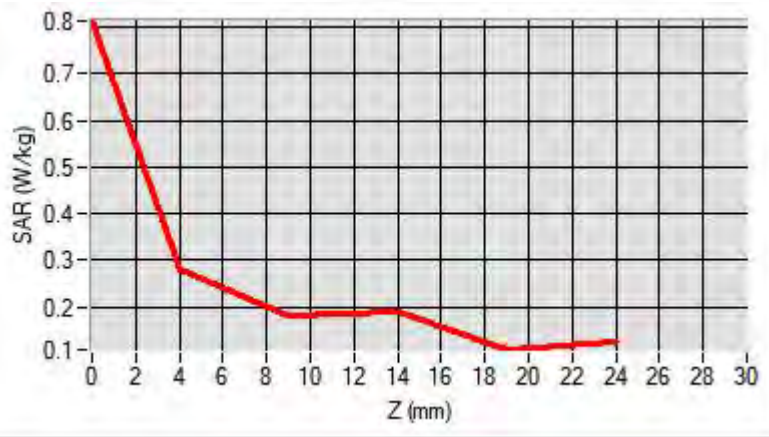
Maximum location: X=24.00, Y=-32.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

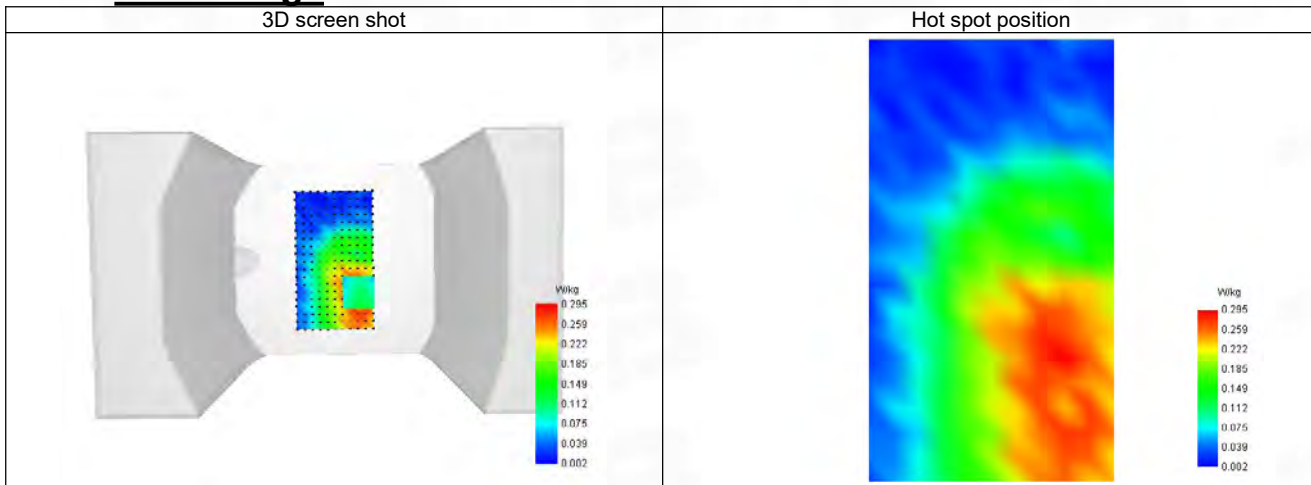
SAR 10g (W/Kg)	0.209
SAR 1g (W/Kg)	0.295
Variation (%)	-4.270
Horizontal validation criteria: minimum distance (mm)	8.214
Vertical validation criteria: SAR ratio M2/M1 (%)	64.87%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.813	0.279	0.181	0.189	0.108



F. 3D Image



11-Head with front position in dist. 0mm on Channel 18700 in LTE band 2

SAR Measurement at LTE band 2 (Cheek, Right)

Date of measurement: 11/6/2024

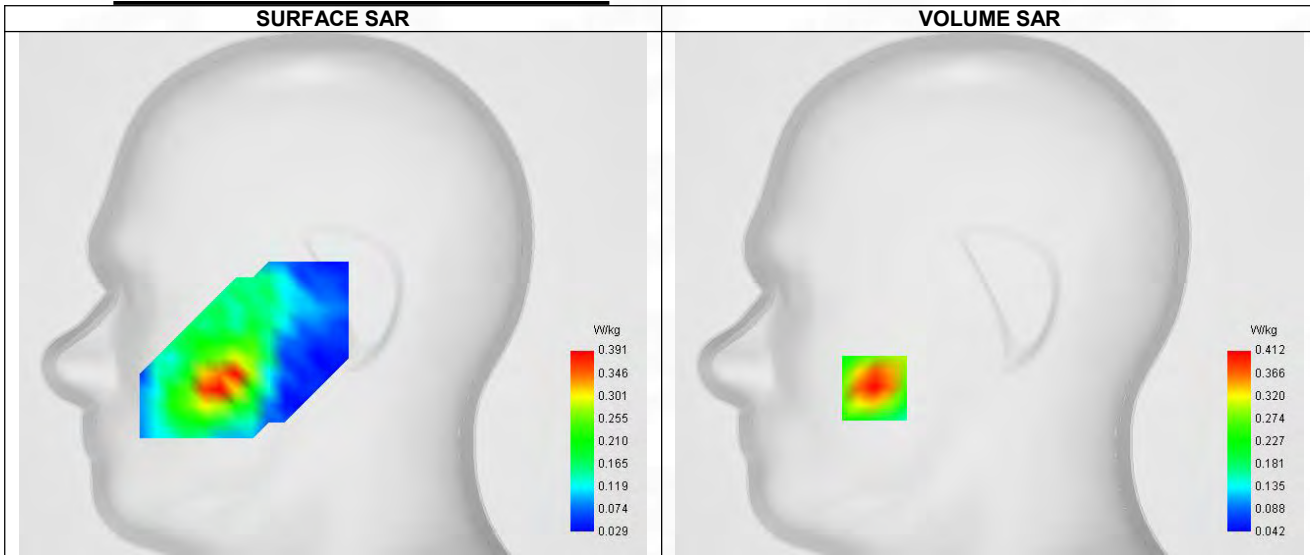
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.07
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 2
Channels	Lower (18700)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1860.090
Relative permittivity (real part)	39.892
Relative permittivity (imaginary part)	13.663
Conductivity (S/m)	1.394

C. SAR Surface and Volume



Maximum location: X=-57.00, Y=-47.00 ; SAR Peak: 0.60 W/kg

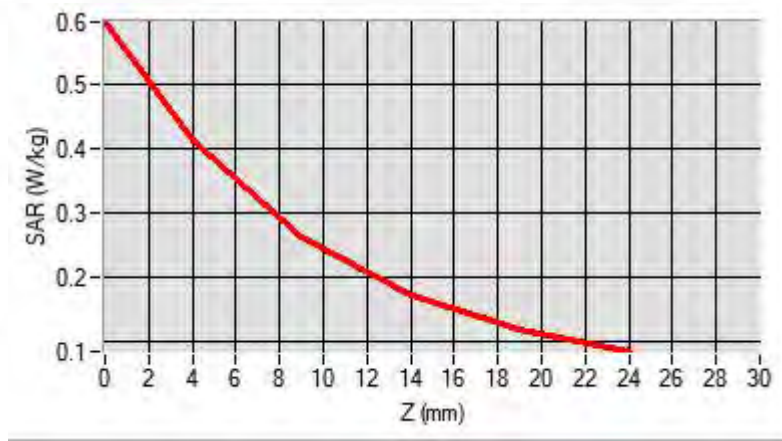
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.239
SAR 1g (W/Kg)	0.391
Variation (%)	-2.740
Horizontal validation criteria: minimum distance (mm)	8.869
Vertical validation criteria: SAR ratio M2/M1 (%)	63.35%

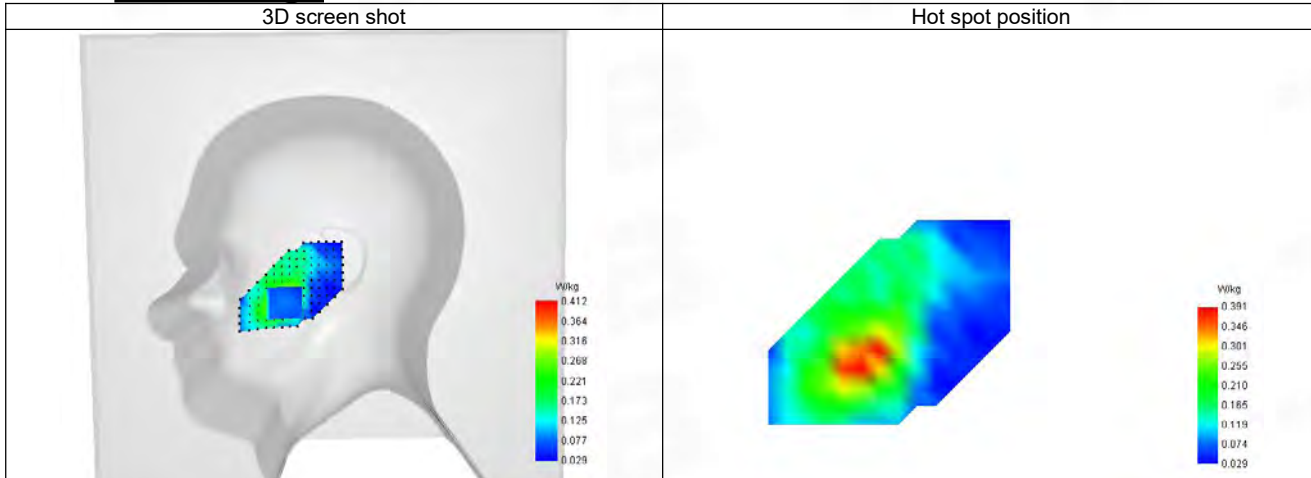
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	0.595	0.412	0.261	0.170	0.118
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F. 3D Image



12-Body with bottom position in dist. 10mm on Channel 18700 in LTE band 2

SAR Measurement at LTE band 2 (Body, Validation Plane)

Date of measurement: 11/6/2024

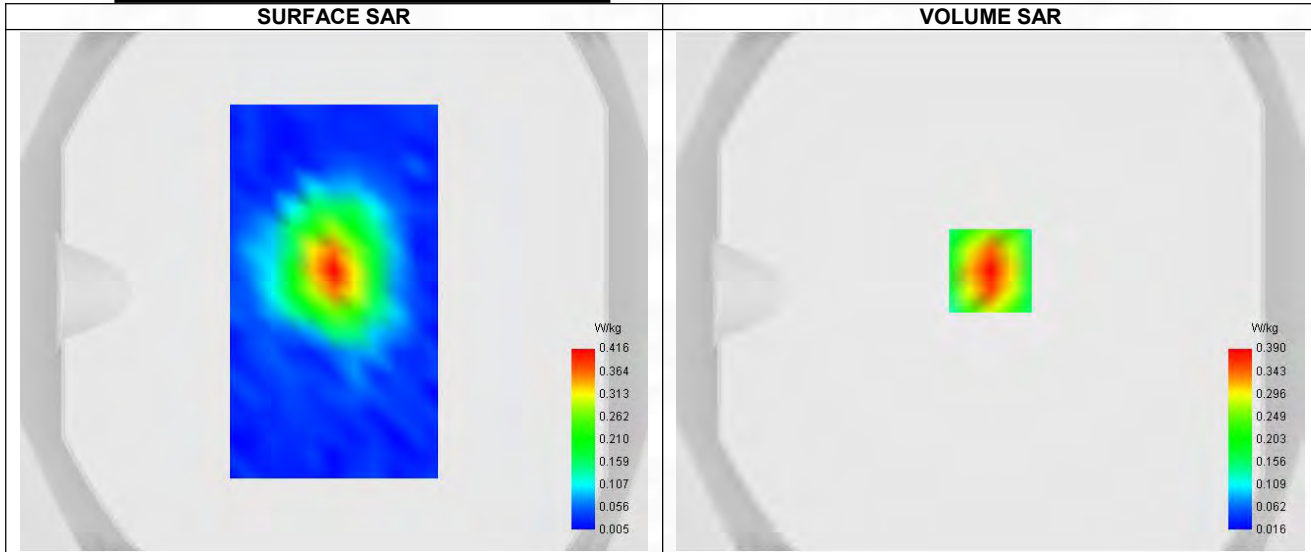
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.07
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels	Lower (18700)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1860.090
Relative permittivity (real part)	39.892
Relative permittivity (imaginary part)	13.663
Conductivity (S/m)	1.394

C. SAR Surface and Volume



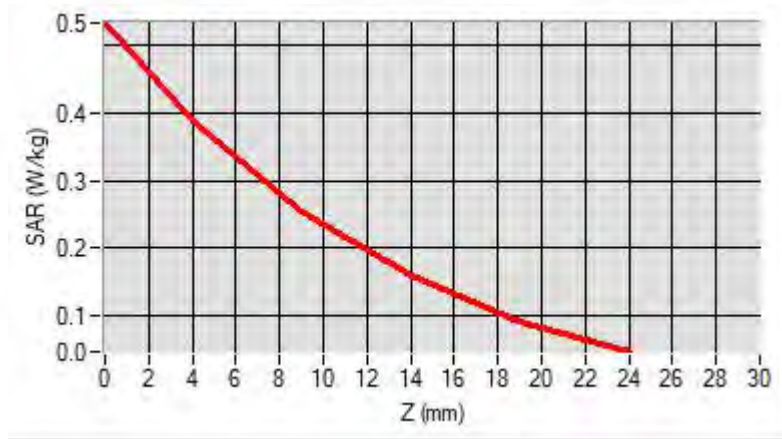
Maximum location: X=0.00, Y=8.00 ; SAR Peak: 0.54 W/kg

D. SAR 1g & 10g

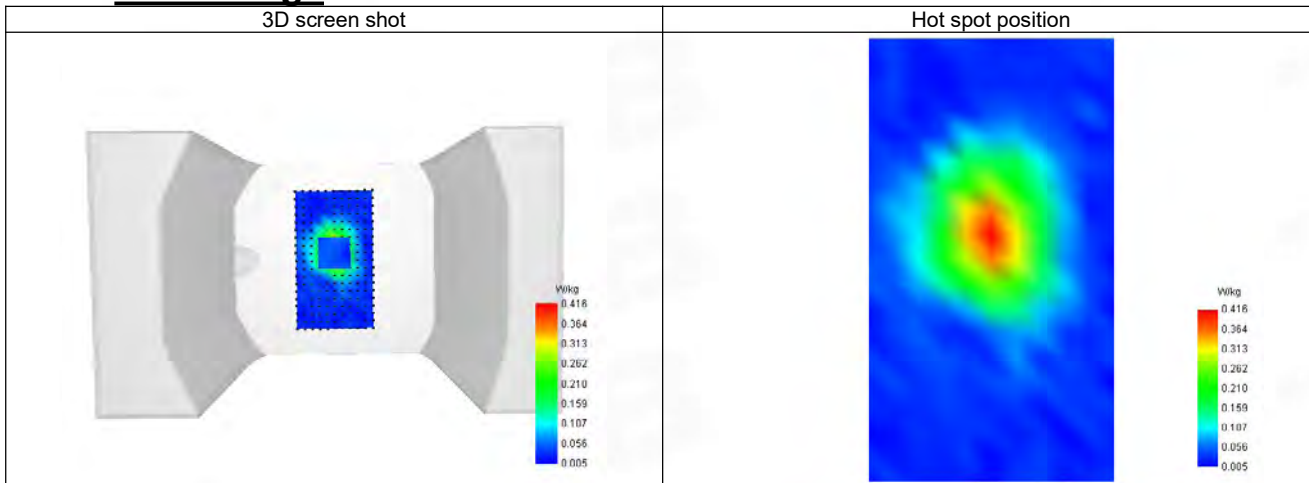
SAR 10g (W/Kg)	0.212
SAR 1g (W/Kg)	0.364
Variation (%)	-1.620
Horizontal validation criteria: minimum distance (mm)	8.696
Vertical validation criteria: SAR ratio M2/M1 (%)	65.38%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.533	0.390	0.255	0.159	0.093



F. 3D Image



13-Head with front position in dist. 0mm on Channel 20175 in LTE band 4

SAR Measurement at LTE band 4 (Cheek, Right)

Date of measurement: 7/6/2024

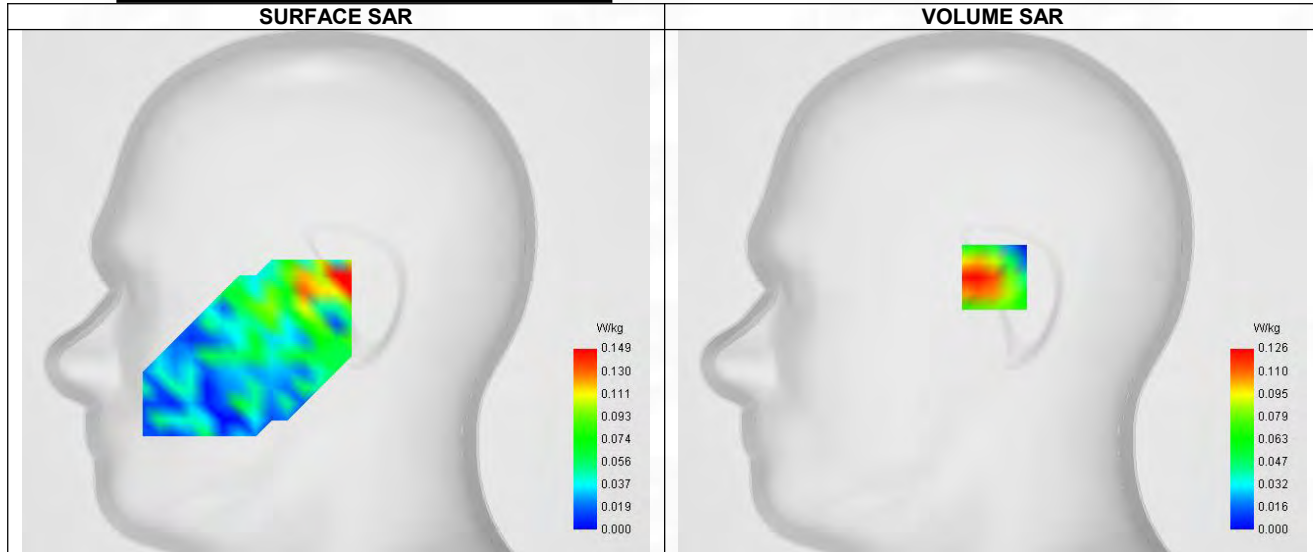
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 4
Channels	Middle (20175)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1732.590
Relative permittivity (real part)	40.015
Relative permittivity (imaginary part)	14.467
Conductivity (S/m)	1.335

C. SAR Surface and Volume

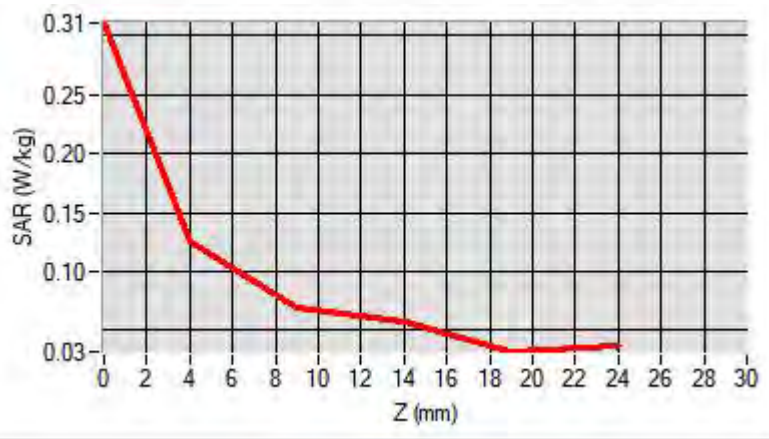


D. SAR 1g & 10g

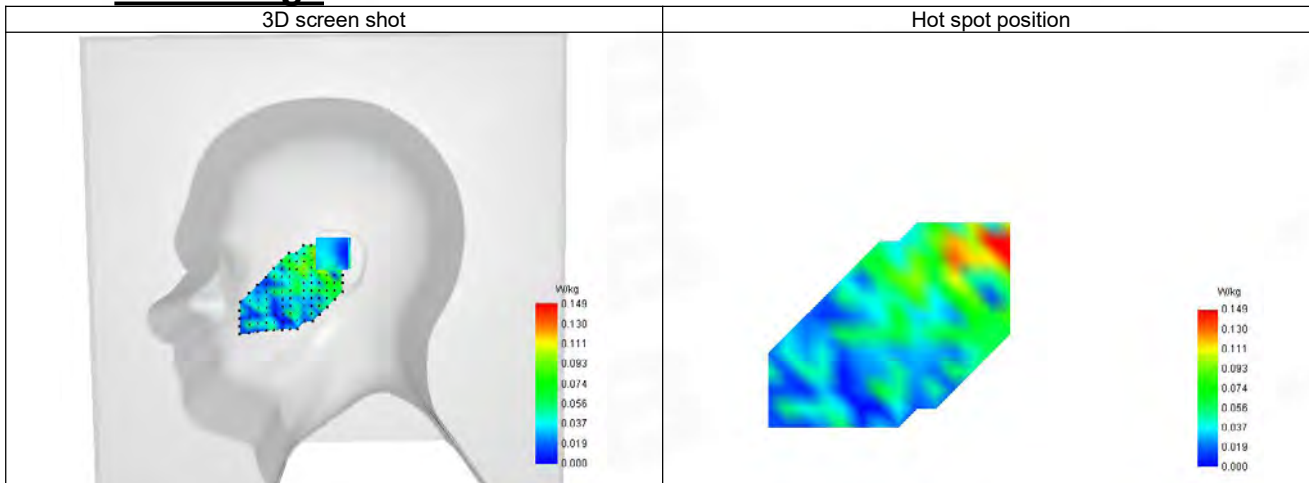
SAR 10g (W/Kg)	0.075
SAR 1g (W/Kg)	0.126
Variation (%)	-1.260
Horizontal validation criteria: minimum distance (mm)	9.325
Vertical validation criteria: SAR ratio M2/M1 (%)	55.56%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.311	0.126	0.070	0.058	0.032



F. 3D Image



14-Body with bottom position in dist. 10mm on Channel 20175 in LTE band 4

SAR Measurement at LTE band 4 (Body, Validation Plane)

Date of measurement: 7/6/2024

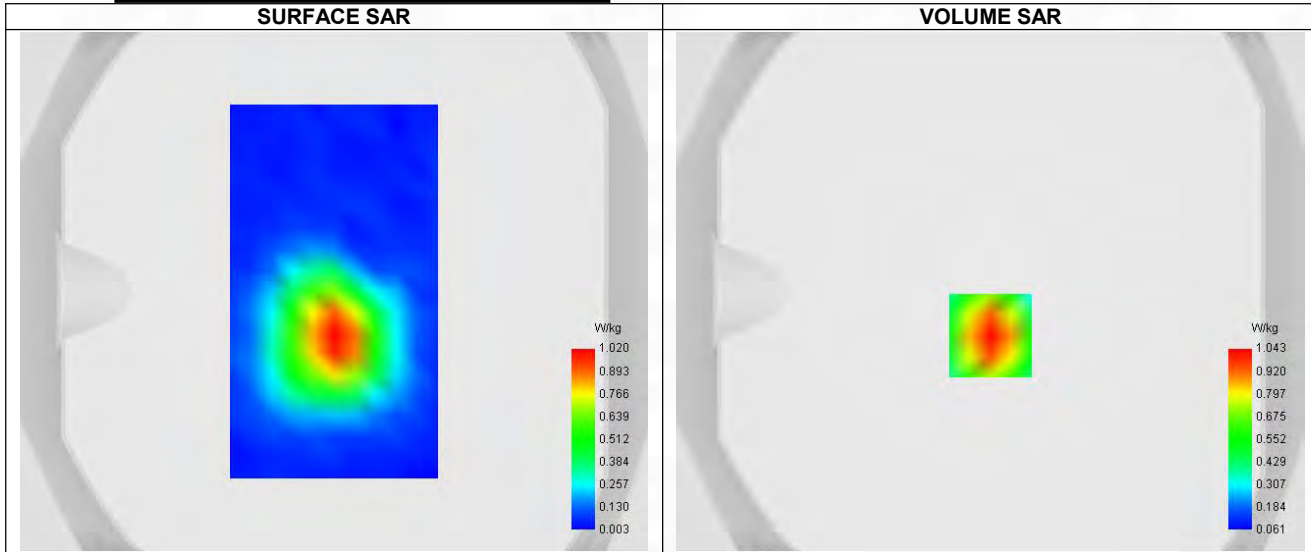
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Channels	Middle (20175)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1732.590
Relative permittivity (real part)	40.015
Relative permittivity (imaginary part)	14.467
Conductivity (S/m)	1.335

C. SAR Surface and Volume



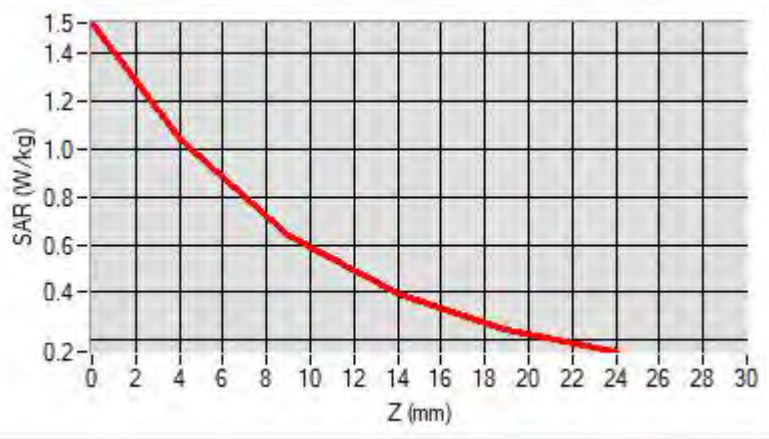
Maximum location: X=0.00, Y=-17.00 ; SAR Peak: 1.53 W/kg

D. SAR 1g & 10g

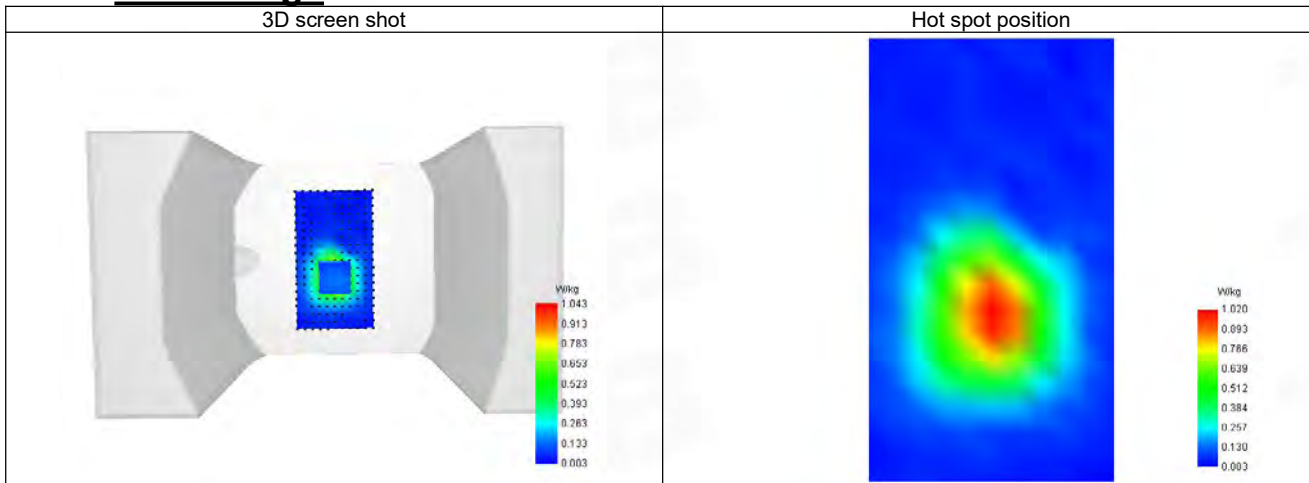
SAR 10g (W/Kg)	0.560
SAR 1g (W/Kg)	0.974
Variation (%)	-3.560
Horizontal validation criteria: minimum distance (mm)	8.824
Vertical validation criteria: SAR ratio M2/M1 (%)	61.07%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.528	1.043	0.637	0.391	0.246



F. 3D Image



15-Head with front position in dist. 0mm on Channel 20450 in LTE band 5

SAR Measurement at LTE band 5 (Cheek, Right)

Date of measurement: 6/6/2024

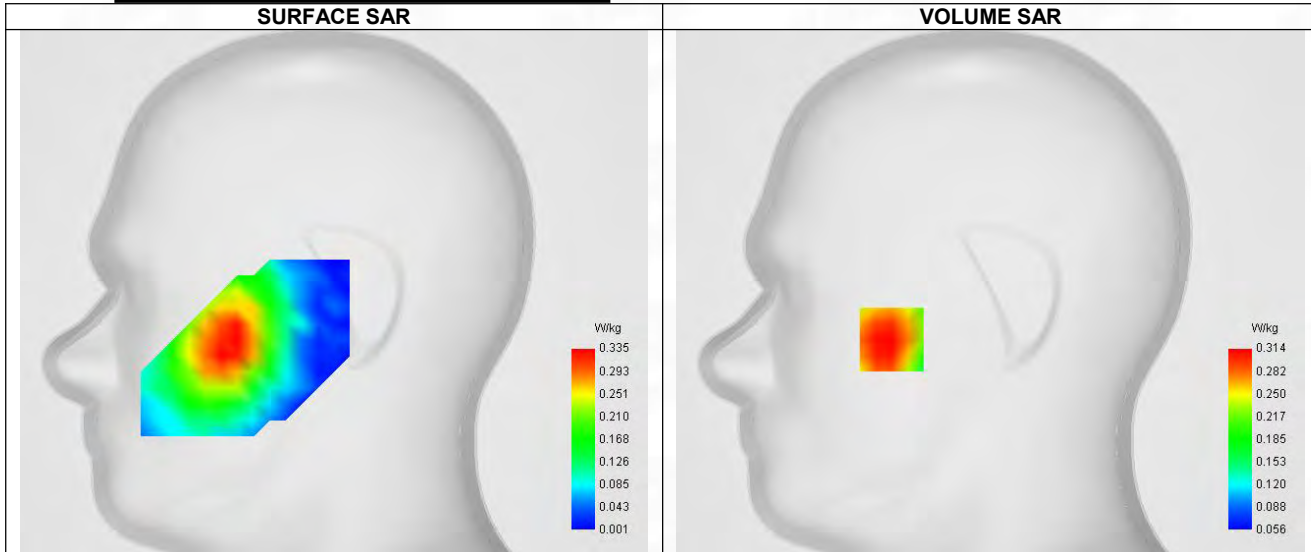
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 5
Channels	Lower (20450)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	824.590
Relative permittivity (real part)	41.458
Relative permittivity (imaginary part)	19.731
Conductivity (S/m)	0.869

C. SAR Surface and Volume



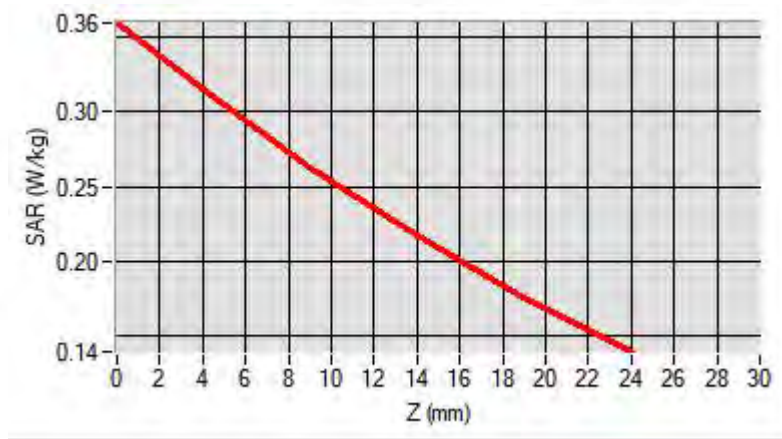
Maximum location: X=-49.00, Y=-24.00 ; SAR Peak: 0.37 W/kg

D. SAR 1g & 10g

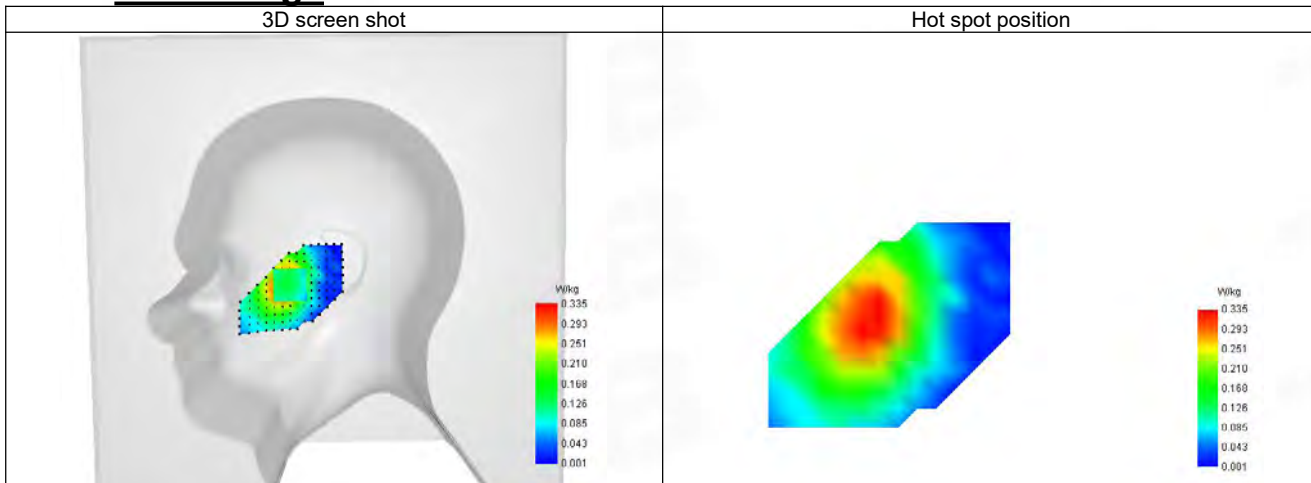
SAR 10g (W/Kg)	0.238
SAR 1g (W/Kg)	0.308
Variation (%)	-4.030
Horizontal validation criteria: minimum distance (mm)	9.514
Vertical validation criteria: SAR ratio M2/M1 (%)	77.39%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.359	0.314	0.243	0.207	0.176



F. 3D Image



16-Body with back position in dist. 10mm on Channel 20450 in LTE band 5

SAR Measurement at LTE band 5 (Body, Validation Plane)

Date of measurement: 6/6/2024

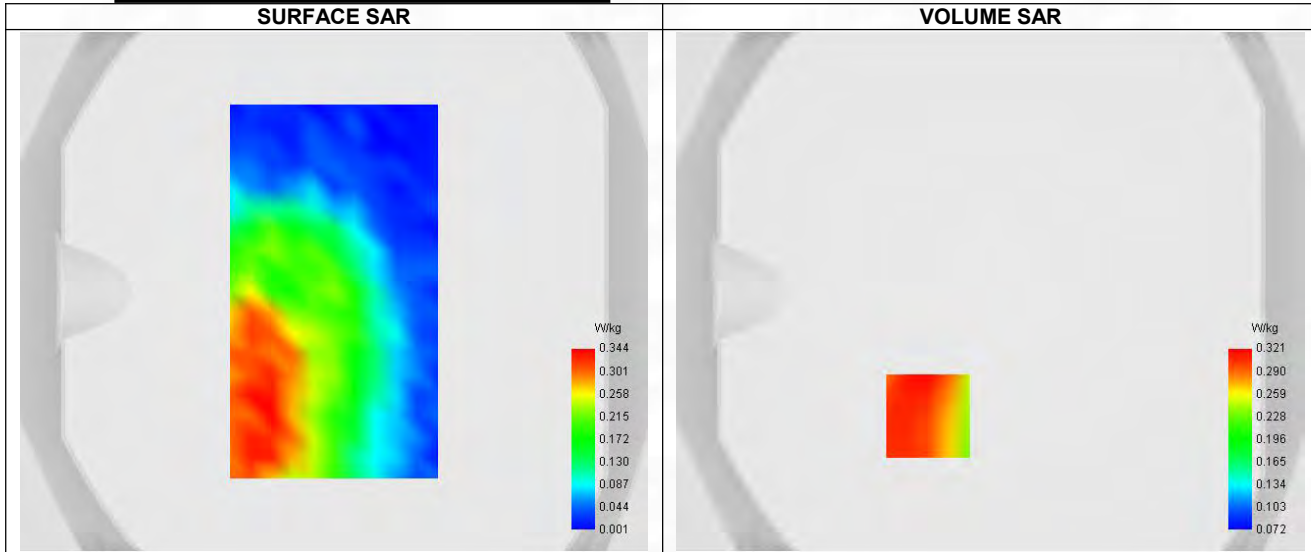
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels	Lower (20450)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	824.590
Relative permittivity (real part)	41.458
Relative permittivity (imaginary part)	19.731
Conductivity (S/m)	0.869

C. SAR Surface and Volume



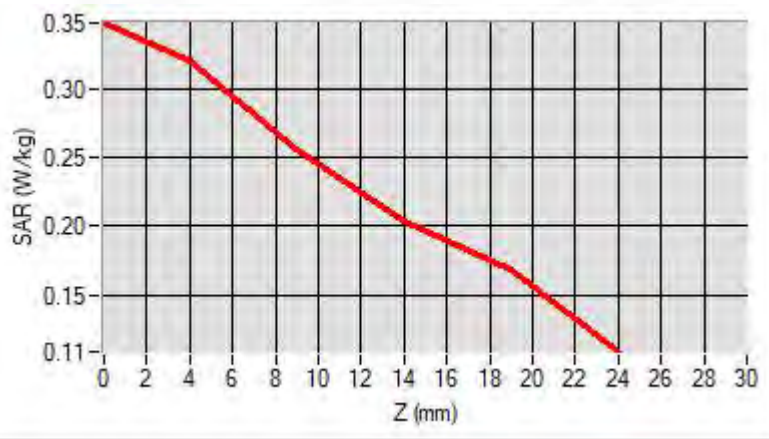
Maximum location: X=-24.00, Y=-48.00 ; SAR Peak: 0.40 W/kg

D. SAR 1g & 10g

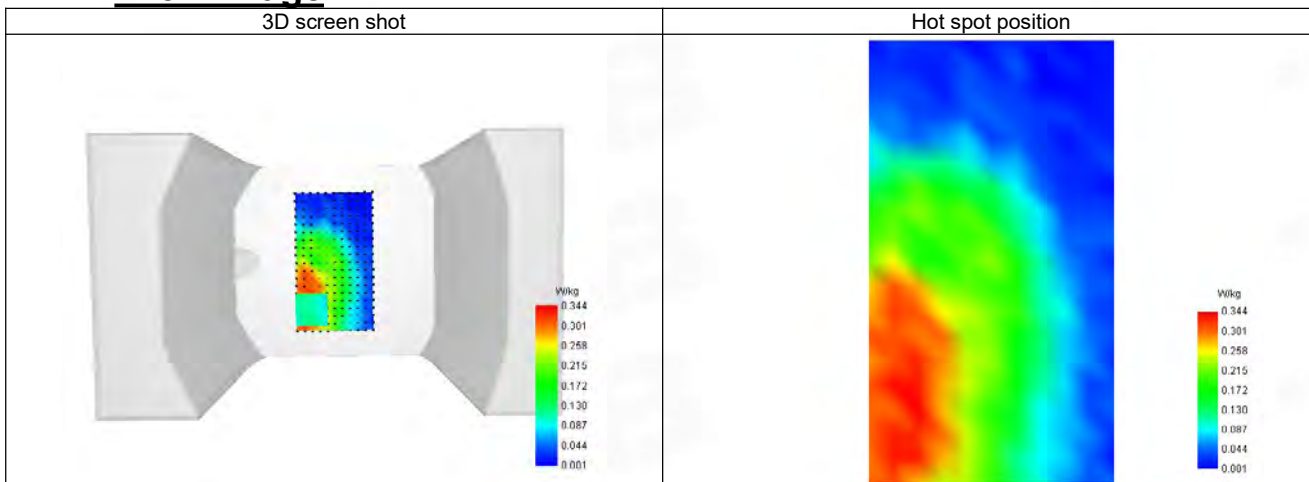
SAR 10g (W/Kg)	0.236
SAR 1g (W/Kg)	0.321
Variation (%)	-1.240
Horizontal validation criteria: minimum distance (mm)	9.787
Vertical validation criteria: SAR ratio M2/M1 (%)	67.29%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.348	0.321	0.216	0.204	0.169



F. 3D Image



17-Head with front position in dist. 0mm on Channel 23060 in LTE band 12

SAR Measurement at LTE band 12 (Cheek, Right)

Date of measurement: 5/6/2024

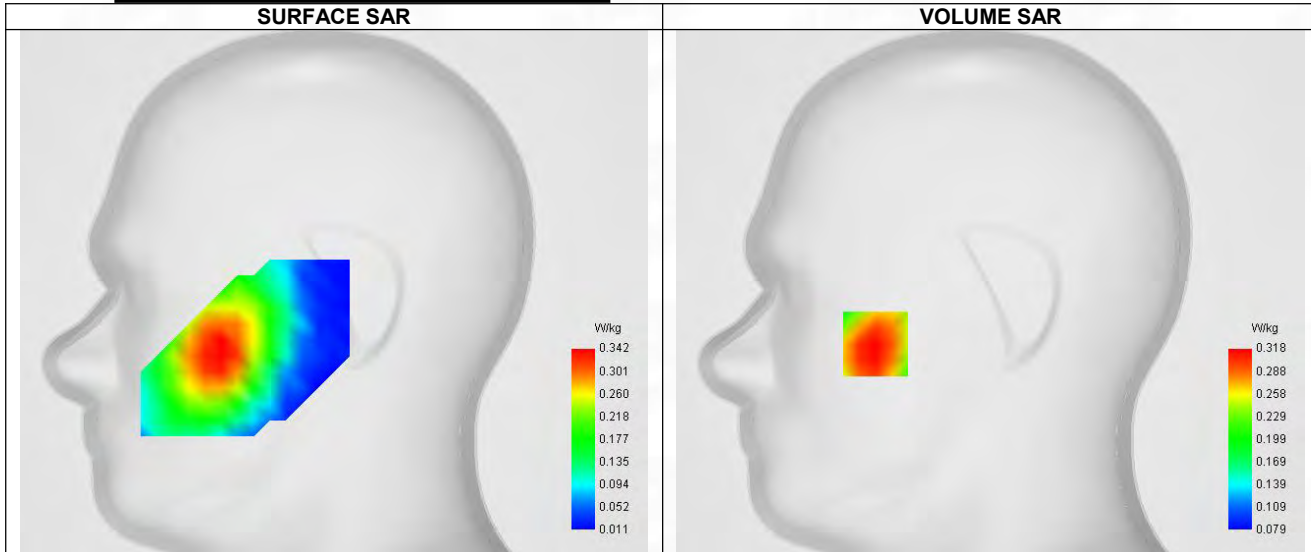
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.63
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 12
Channels	Lower (23060)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	704.090
Relative permittivity (real part)	42.011
Relative permittivity (imaginary part)	22.524
Conductivity (S/m)	0.855

C. SAR Surface and Volume



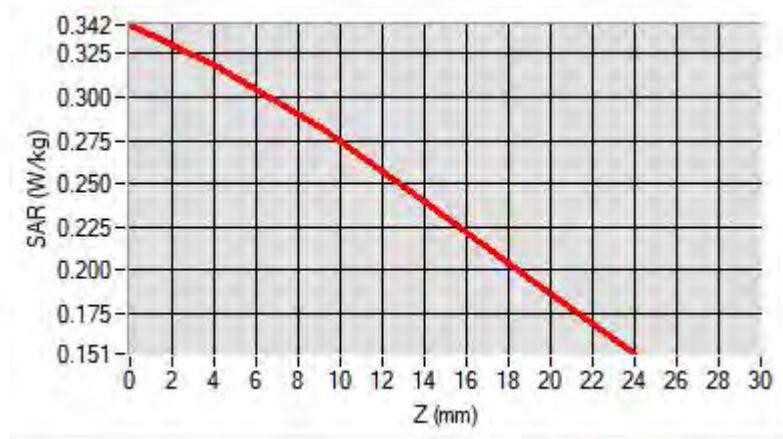
Maximum location: X=-57.00, Y=-26.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

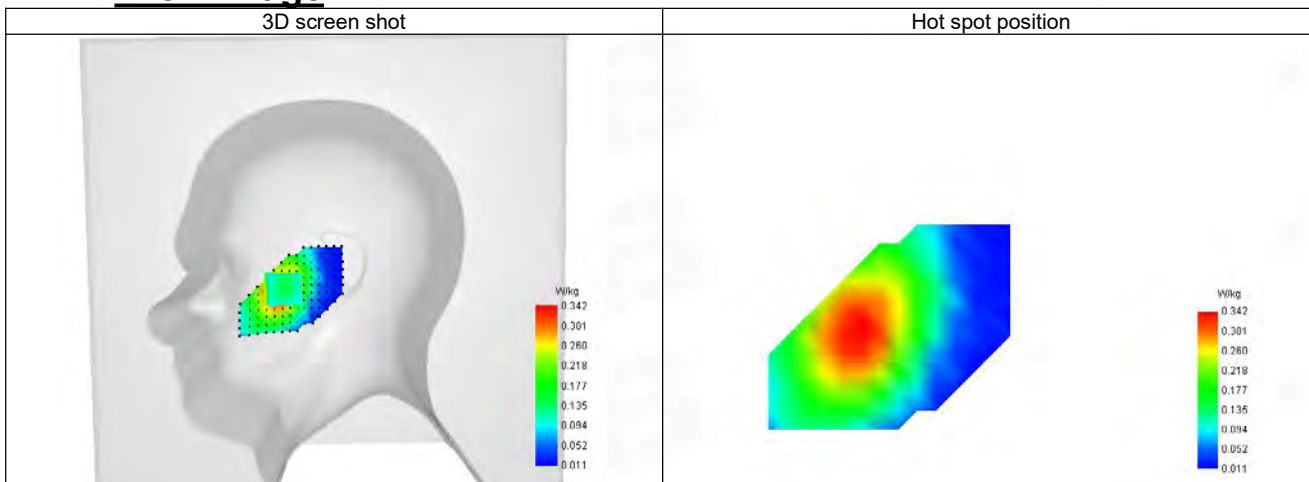
SAR 10g (W/Kg)	0.246
SAR 1g (W/Kg)	0.313
Variation (%)	-2.880
Horizontal validation criteria: minimum distance (mm)	8.715
Vertical validation criteria: SAR ratio M2/M1 (%)	69.81%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.342	0.318	0.222	0.200	0.195



F. 3D Image



18-Body with back position in dist. 10mm on Channel 23060 in LTE band 12

SAR Measurement at LTE band 12 (Body, Validation Plane)

Date of measurement: 5/6/2024

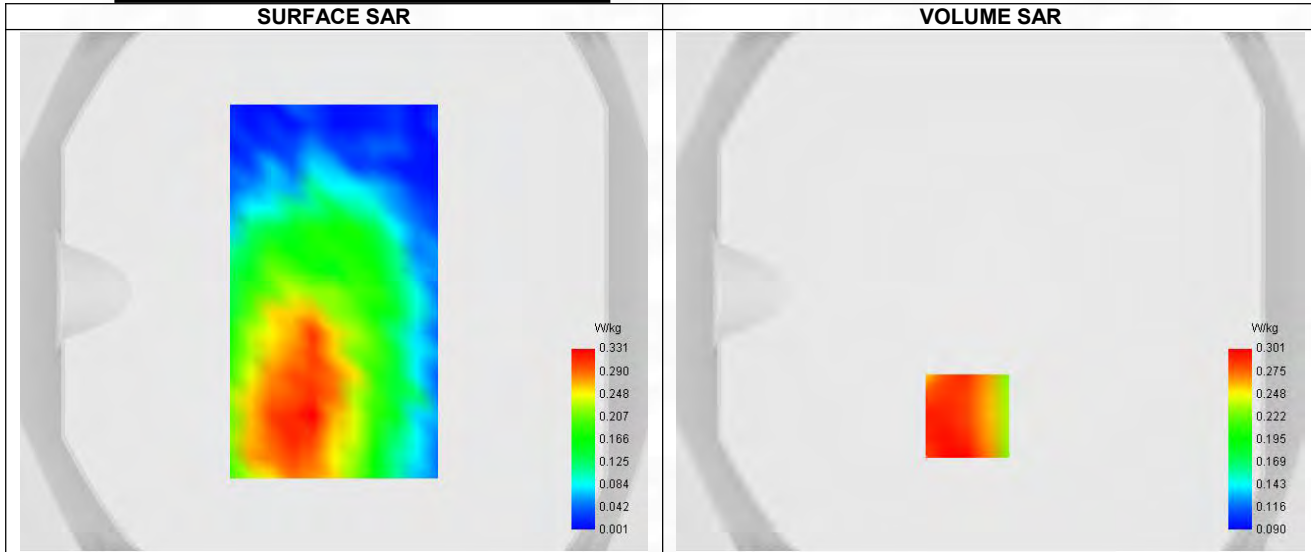
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.63
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Channels	Lower (23060)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	704.090
Relative permittivity (real part)	42.011
Relative permittivity (imaginary part)	22.524
Conductivity (S/m)	0.855

C. SAR Surface and Volume



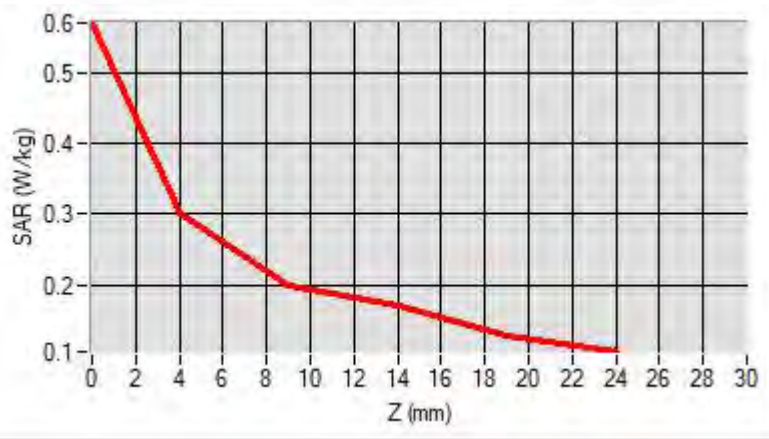
Maximum location: X=-9.00, Y=-48.00 ; SAR Peak: 0.39 W/kg

D. SAR 1g & 10g

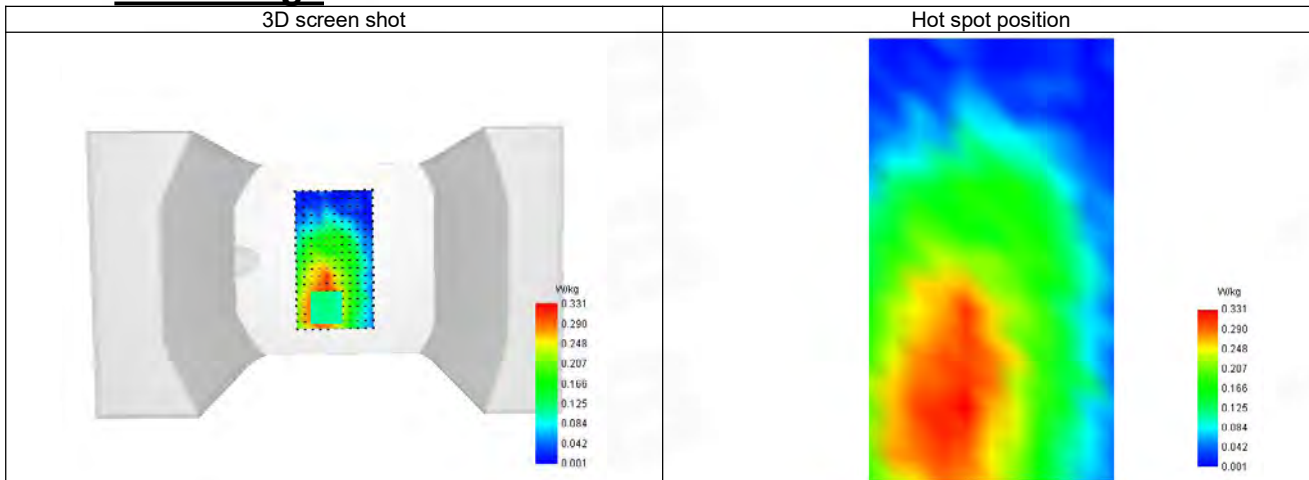
SAR 10g (W/Kg)	0.225
SAR 1g (W/Kg)	0.292
Variation (%)	-0.930
Horizontal validation criteria: minimum distance (mm)	8.742
Vertical validation criteria: SAR ratio M2/M1 (%)	66.11%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.570	0.301	0.199	0.170	0.127



F. 3D Image



19-Head with front position in dist. 0mm on Channel 26140 in LTE band 25

SAR Measurement at LTE band 25 (Cheek, Right)

Date of measurement: 11/6/2024

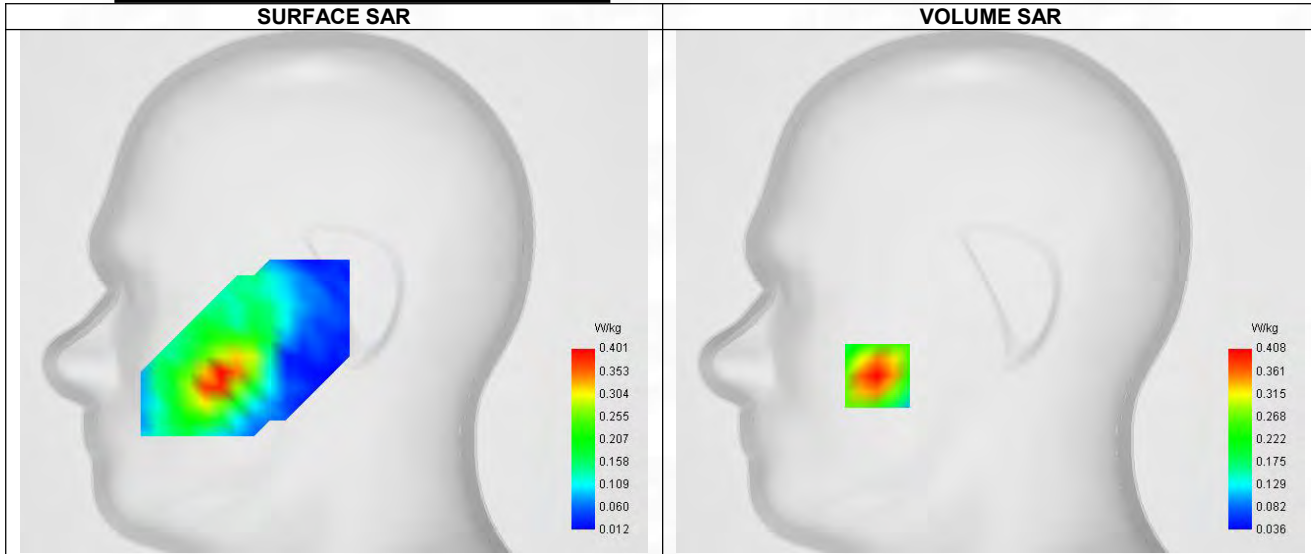
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.07
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 25
Channels	Lower (26140)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1860.090
Relative permittivity (real part)	39.892
Relative permittivity (imaginary part)	13.663
Conductivity (S/m)	1.394

C. SAR Surface and Volume



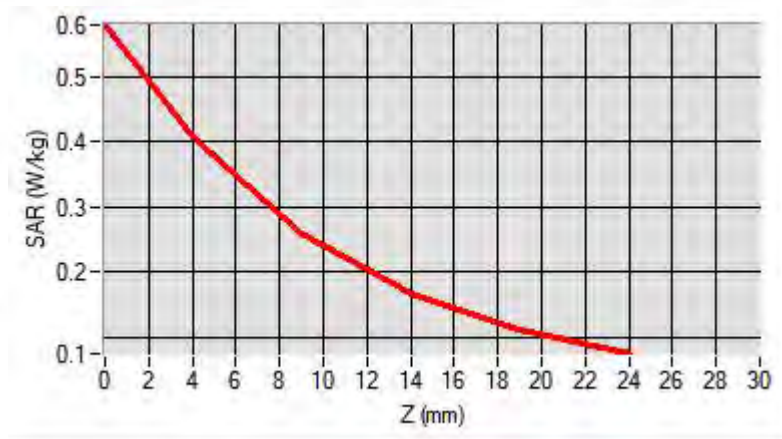
Maximum location: X=-56.00, Y=-42.00 ; SAR Peak: 0.58 W/kg

D. SAR 1g & 10g

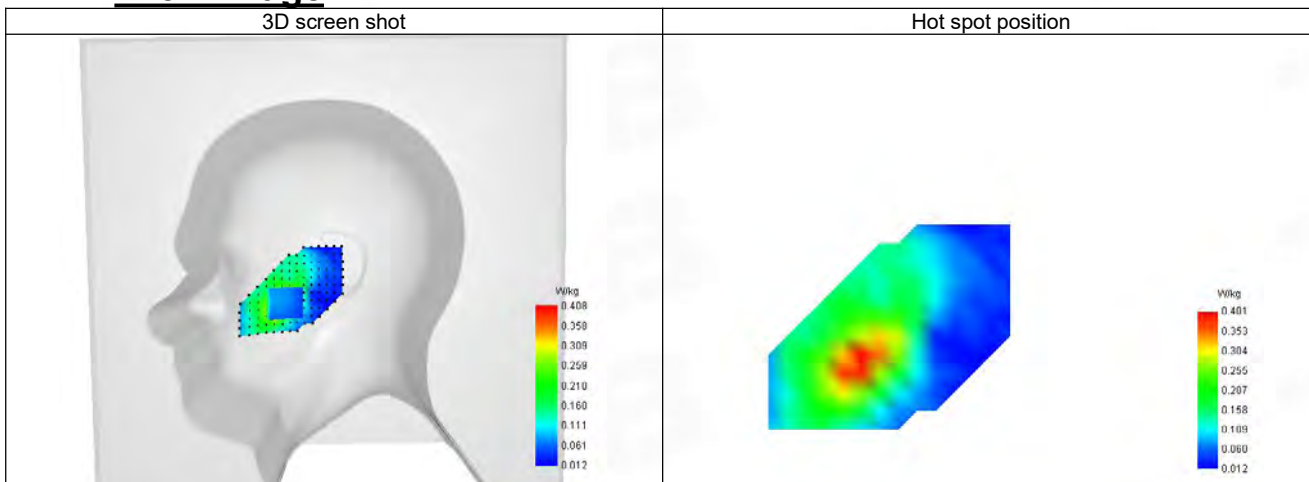
SAR 10g (W/Kg)	0.234
SAR 1g (W/Kg)	0.385
Variation (%)	-2.550
Horizontal validation criteria: minimum distance (mm)	9.568
Vertical validation criteria: SAR ratio M2/M1 (%)	63.79%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.580	0.408	0.261	0.169	0.113



F. 3D Image



20-Body with bottom position in dist. 10mm on Channel 26140 in LTE band 25
SAR Measurement at LTE band 25 (Body, Validation Plane)

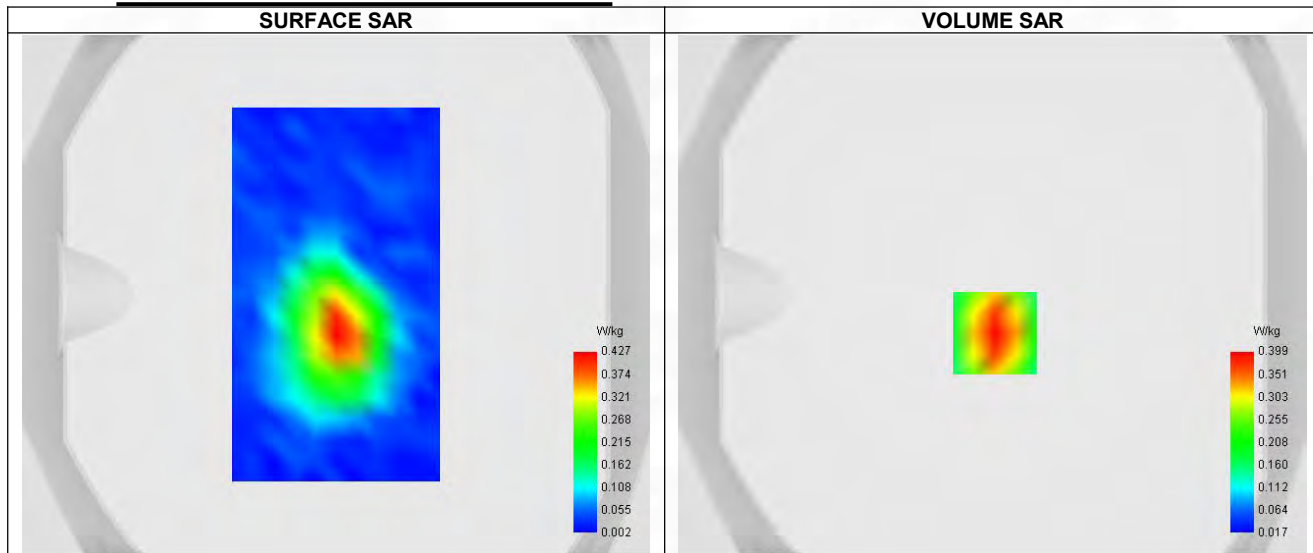
Date of measurement: 11/6/2024

A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.07
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 25
Channels	Lower (26140)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1860.090
Relative permittivity (real part)	39.892
Relative permittivity (imaginary part)	13.663
Conductivity (S/m)	1.394

C. SAR Surface and Volume


Maximum location: X=1.00, Y=-15.00 ; SAR Peak: 0.61 W/kg

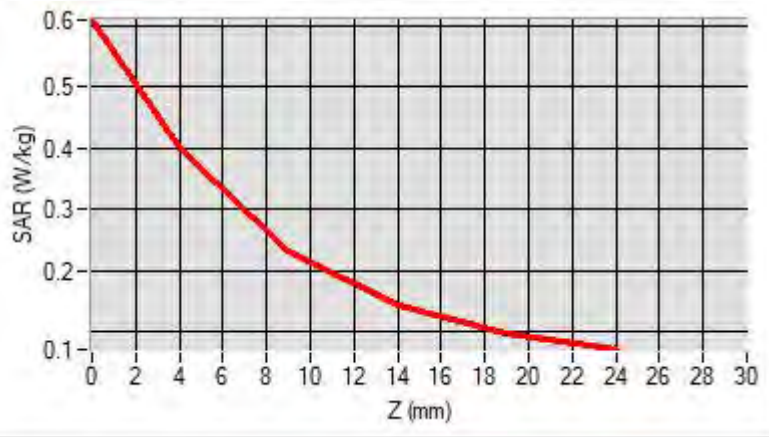
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.219
SAR 1g (W/Kg)	0.377
Variation (%)	4.700
Horizontal validation criteria: minimum distance (mm)	9.882
Vertical validation criteria: SAR ratio M2/M1 (%)	58.65%

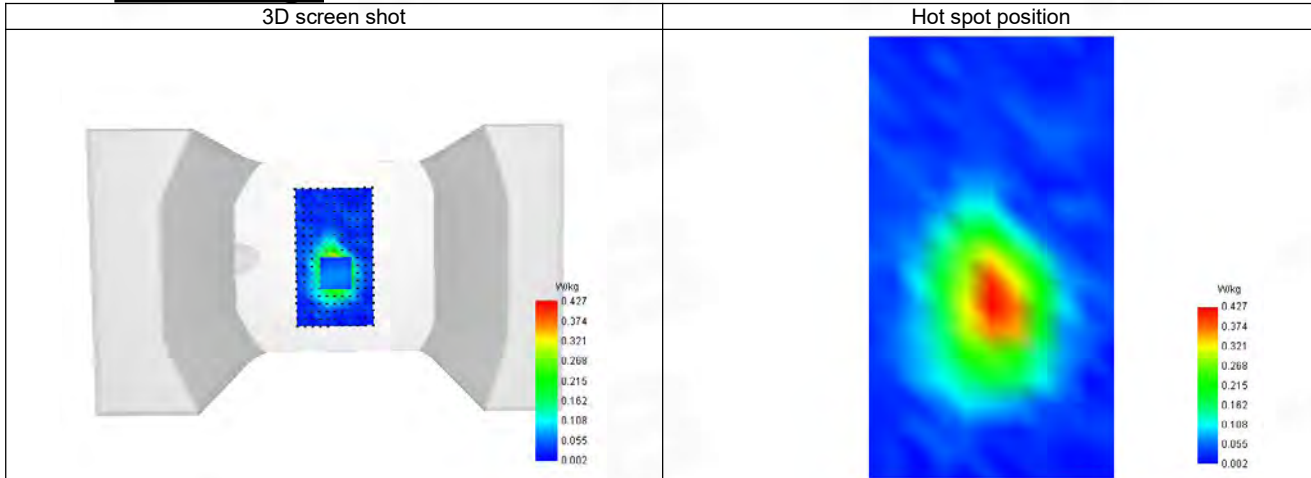
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	0.610	0.399	0.234	0.144	0.099
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F. 3D Image



21-Head with front position in dist. 0mm on Channel 26740 in LTE band 26 part 90

SAR Measurement at LTE band 26 (Cheek, Right)

Date of measurement: 6/6/2024

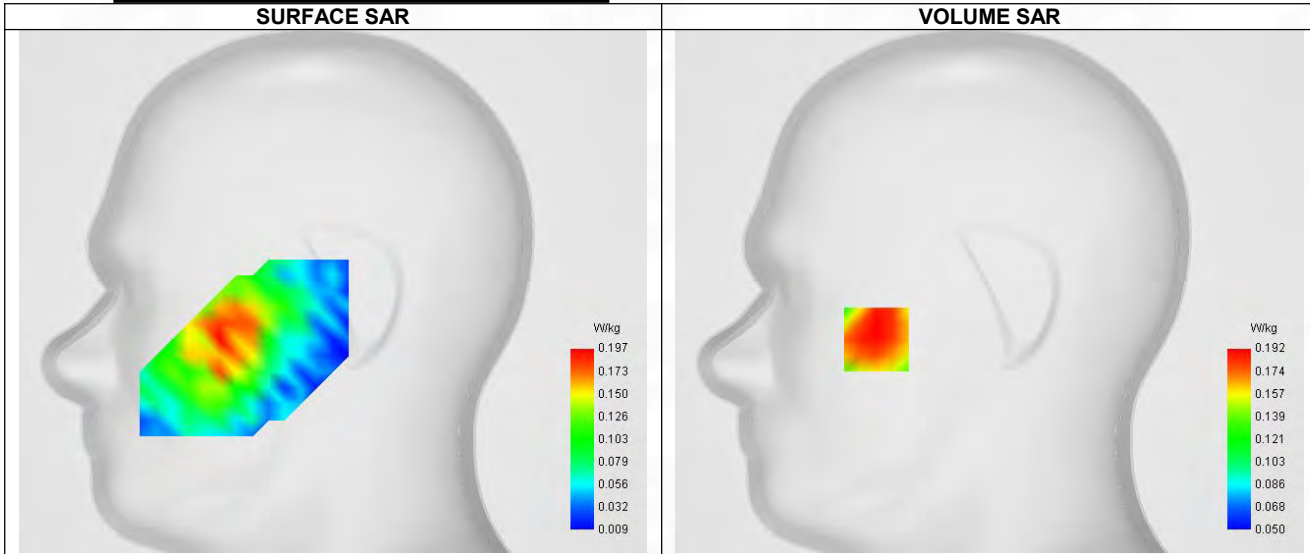
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 26
Channels	Middle (26740)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	814.590
Relative permittivity (real part)	41.504
Relative permittivity (imaginary part)	19.963
Conductivity (S/m)	0.868

C. SAR Surface and Volume



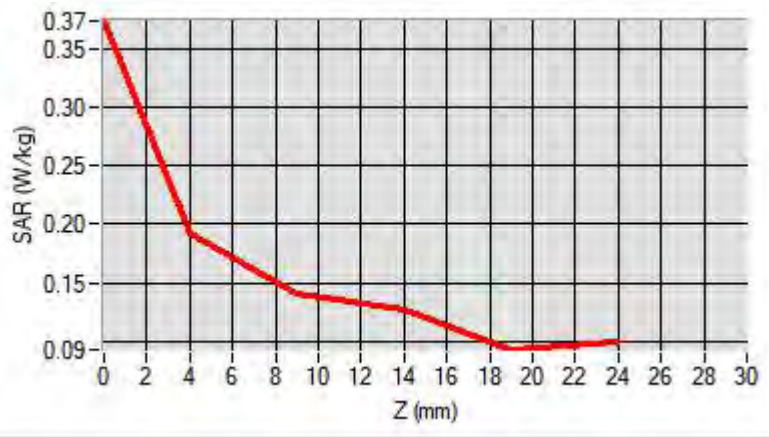
Maximum location: X=-56.00, Y=-24.00 ; SAR Peak: 0.25 W/kg

D. SAR 1g & 10g

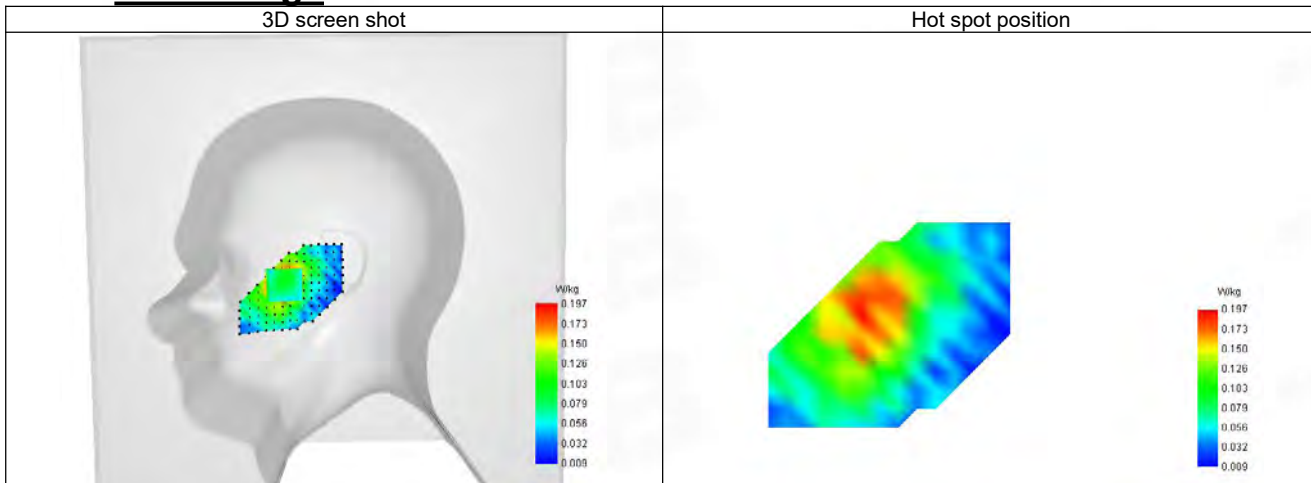
SAR 10g (W/Kg)	0.146
SAR 1g (W/Kg)	0.189
Variation (%)	0.010
Horizontal validation criteria: minimum distance (mm)	8.695
Vertical validation criteria: SAR ratio M2/M1 (%)	73.44%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.375	0.192	0.141	0.127	0.092



F. 3D Image



22-Body with back position in dist. 10mm on Channel 26740 in LTE band 26 part 90

SAR Measurement at LTE band 26 (Body, Validation Plane)

Date of measurement: 6/6/2024

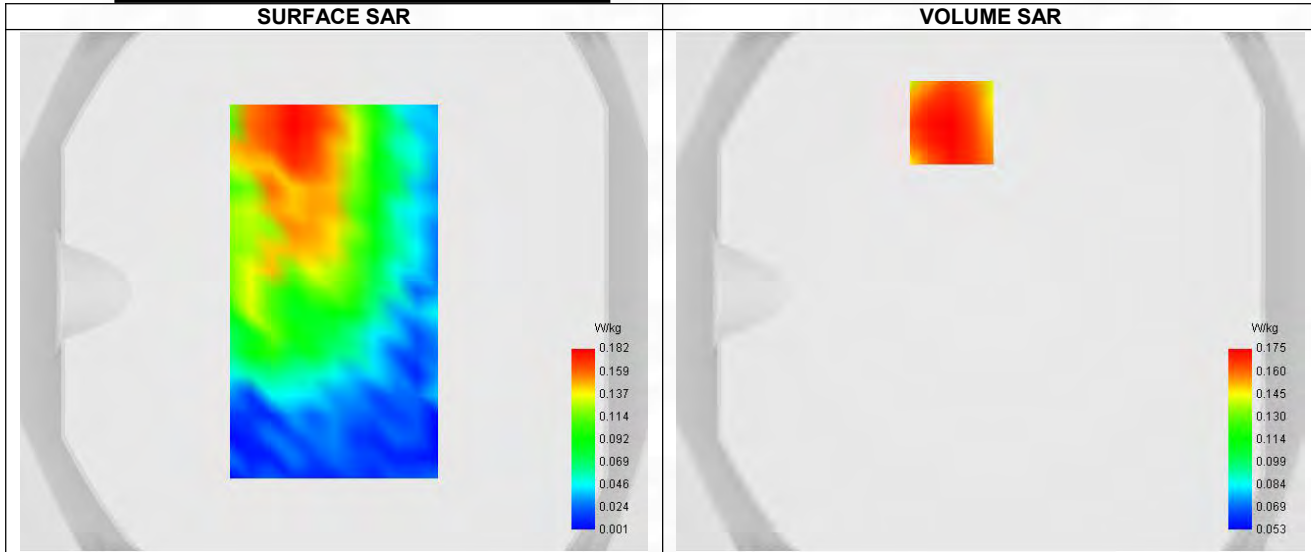
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26
Channels	Middle (26740)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	814.590
Relative permittivity (real part)	41.504
Relative permittivity (imaginary part)	19.963
Conductivity (S/m)	0.868

C. SAR Surface and Volume



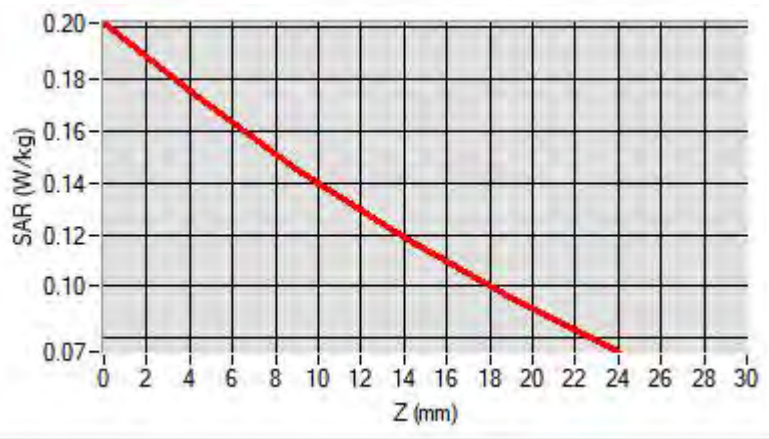
Maximum location: X=-15.00, Y=65.00 ; SAR Peak: 0.22 W/kg

D. SAR 1g & 10g

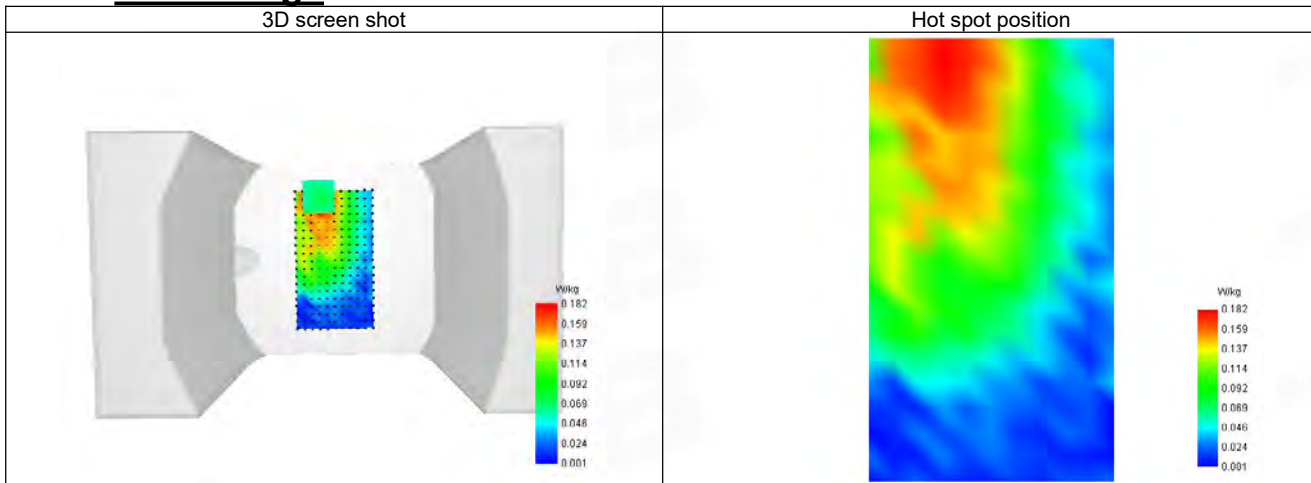
SAR 10g (W/Kg)	0.133
SAR 1g (W/Kg)	0.172
Variation (%)	-0.110
Horizontal validation criteria: minimum distance (mm)	10.365
Vertical validation criteria: SAR ratio M2/M1 (%)	72.00%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.202	0.175	0.126	0.119	0.096



F. 3D Image



23-Head with front position in dist. 0mm on Channel 26865 in LTE band 26 part 22

SAR Measurement at LTE band 26 (Cheek, Right)

Date of measurement: 6/6/2024

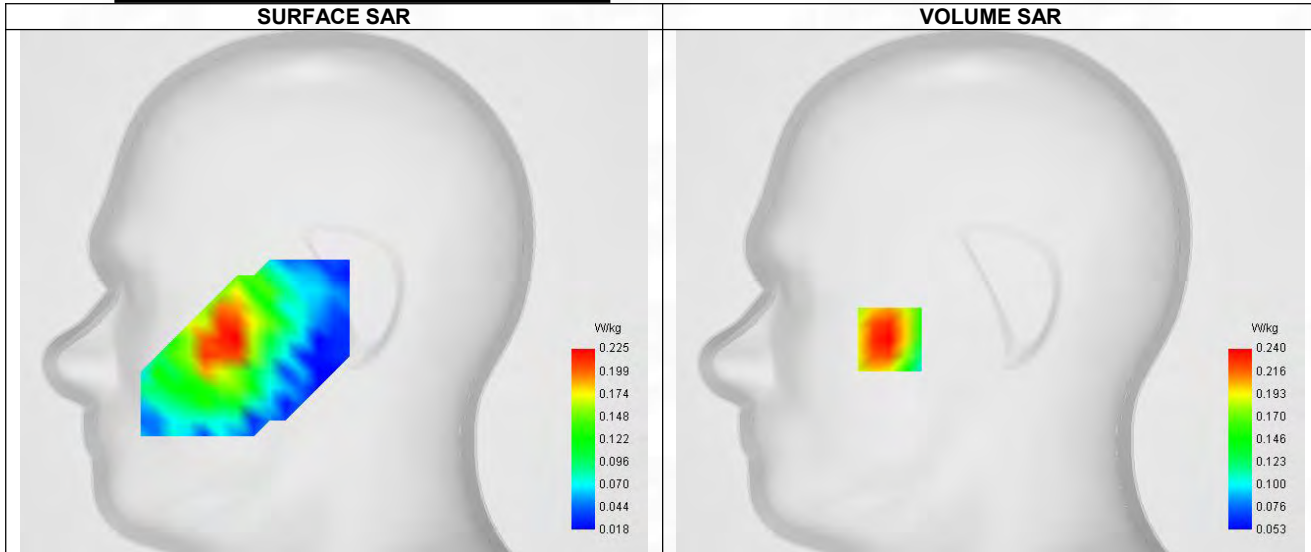
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 26
Channels	Lower (26865)
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	831.840
Relative permittivity (real part)	41.424
Relative permittivity (imaginary part)	19.563
Conductivity (S/m)	0.870

C. SAR Surface and Volume



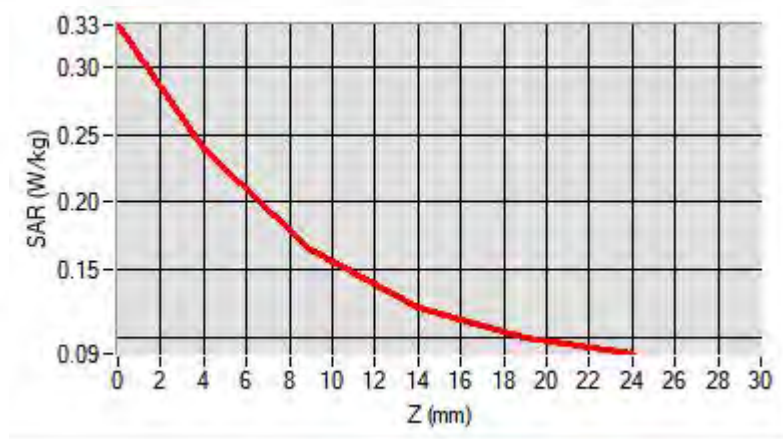
Maximum location: X=-50.00, Y=-24.00 ; SAR Peak: 0.34 W/kg

D. SAR 1g & 10g

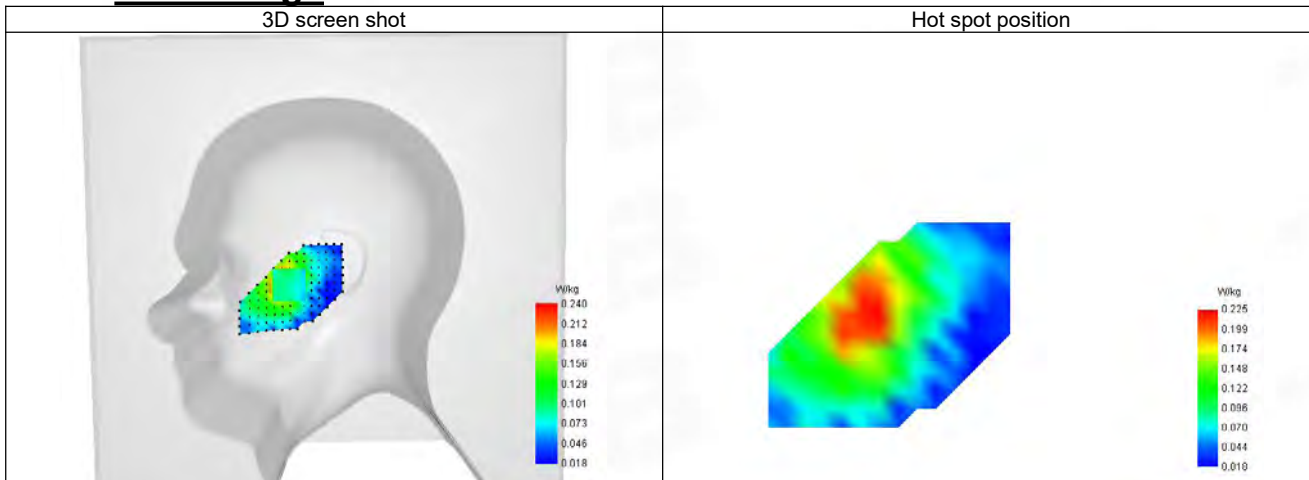
SAR 10g (W/Kg)	0.165
SAR 1g (W/Kg)	0.232
Variation (%)	2.940
Horizontal validation criteria: minimum distance (mm)	8.655
Vertical validation criteria: SAR ratio M2/M1 (%)	68.33%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.332	0.240	0.164	0.122	0.100



F. 3D Image



24-Body with back position in dist. 10mm on Channel 26865 in LTE band 26 part 22

SAR Measurement at LTE band 26 (Body, Validation Plane)

Date of measurement: 6/6/2024

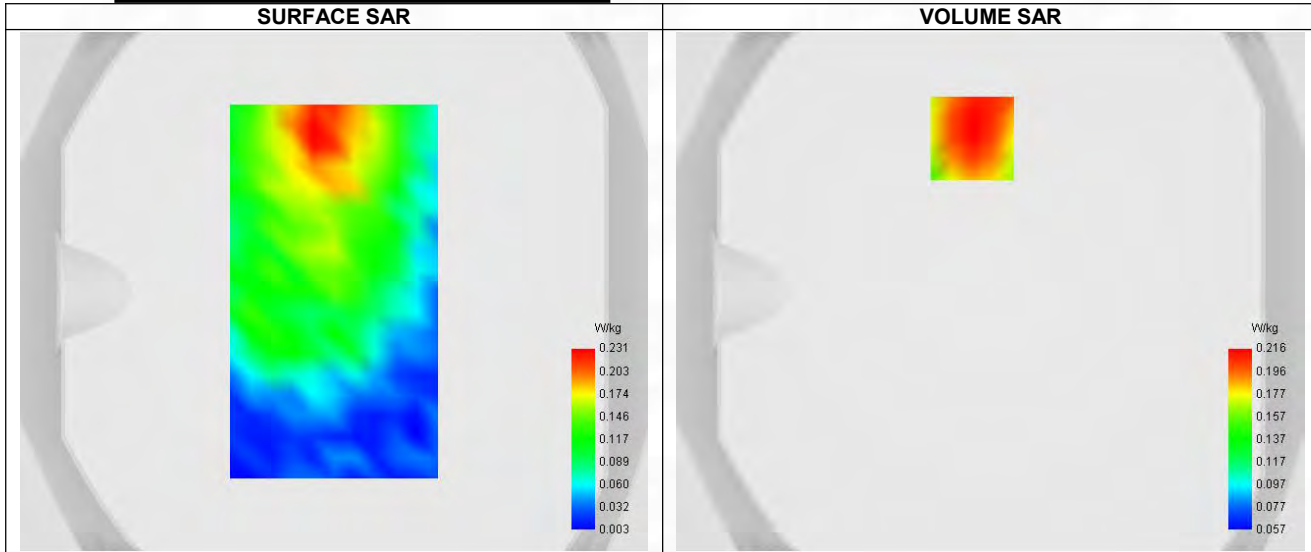
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26
Channels	Lower (26765)
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Frequency (MHz)	831.840
Relative permittivity (real part)	41.424
Relative permittivity (imaginary part)	19.563
Conductivity (S/m)	0.870

C. SAR Surface and Volume



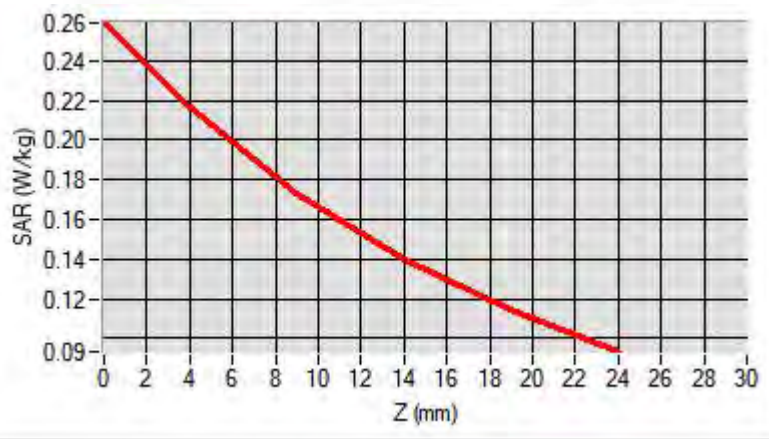
Maximum location: X=-7.00, Y=59.00 ; SAR Peak: 0.27 W/kg

D. SAR 1g & 10g

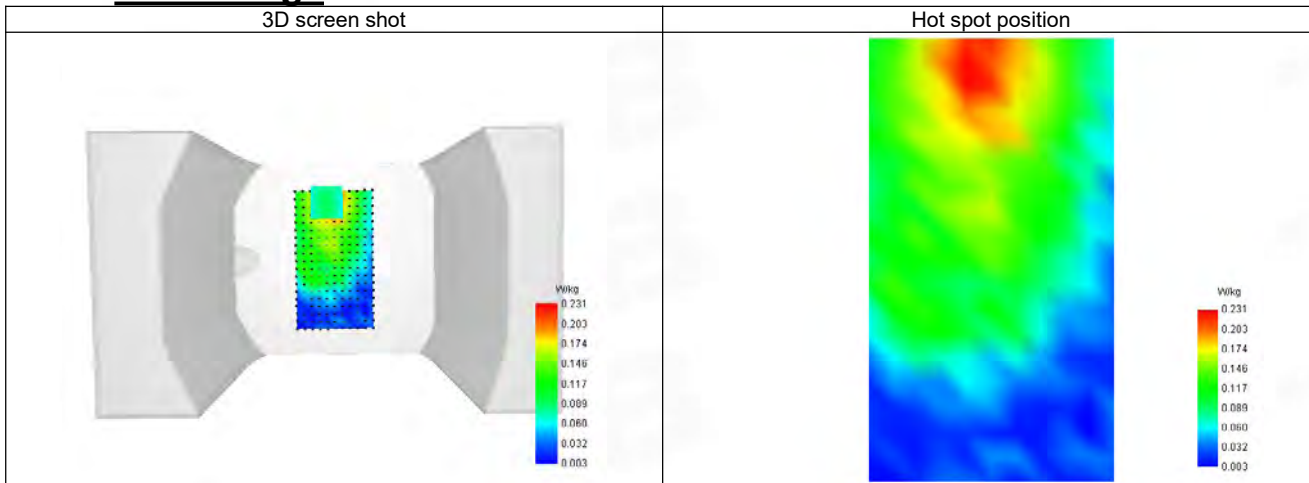
SAR 10g (W/Kg)	0.160
SAR 1g (W/Kg)	0.210
Variation (%)	-1.610
Horizontal validation criteria: minimum distance (mm)	8.903
Vertical validation criteria: SAR ratio M2/M1 (%)	66.20%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.259	0.216	0.143	0.130	0.114



F. 3D Image



25-Head with front position in dist. 0mm on Channel 41490 in LTE band 41

SAR Measurement at LTE band 41 (Cheek, Right)

Date of measurement: 13/6/2024

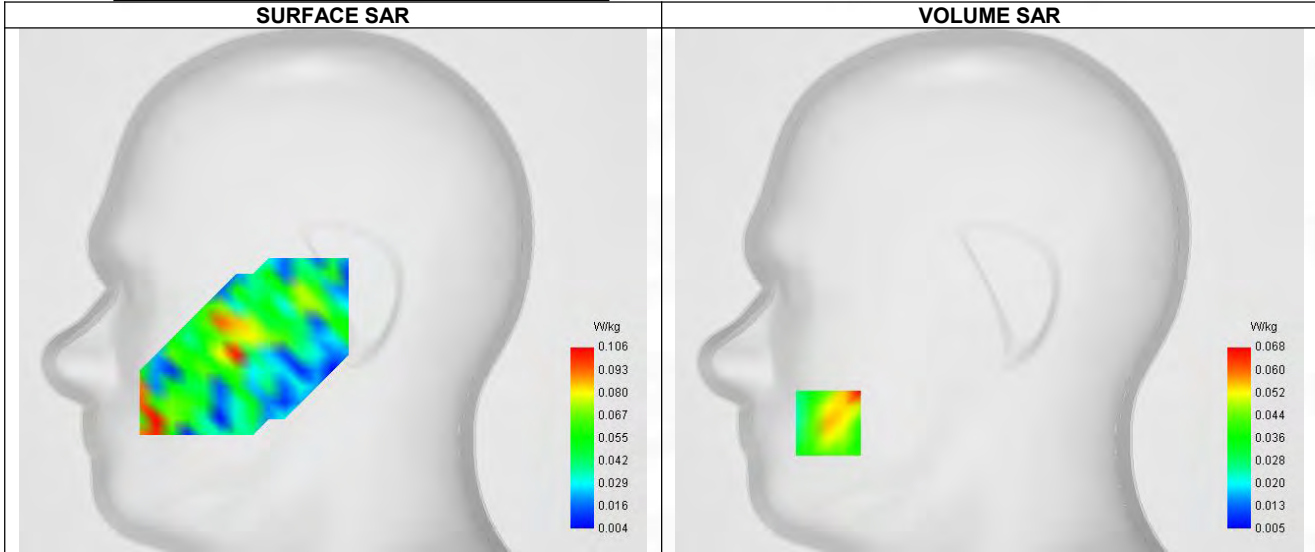
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.08
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 41
Channels	Higher (41490)
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

B. Permittivity

Frequency (MHz)	2680.090
Relative permittivity (real part)	38.788
Relative permittivity (imaginary part)	12.800
Conductivity (S/m)	2.054

C. SAR Surface and Volume



Maximum location: X=-80.00, Y=-66.00 ; SAR Peak: 0.13 W/kg

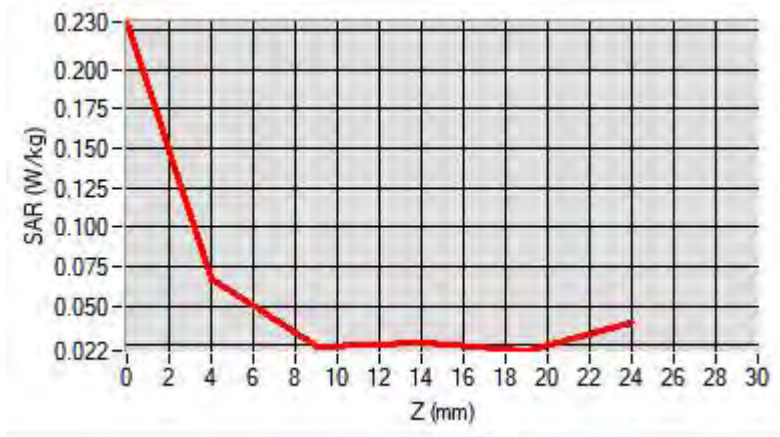
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.048
SAR 1g (W/Kg)	0.066
Variation (%)	-2.270
Horizontal validation criteria: minimum distance (mm)	9.544

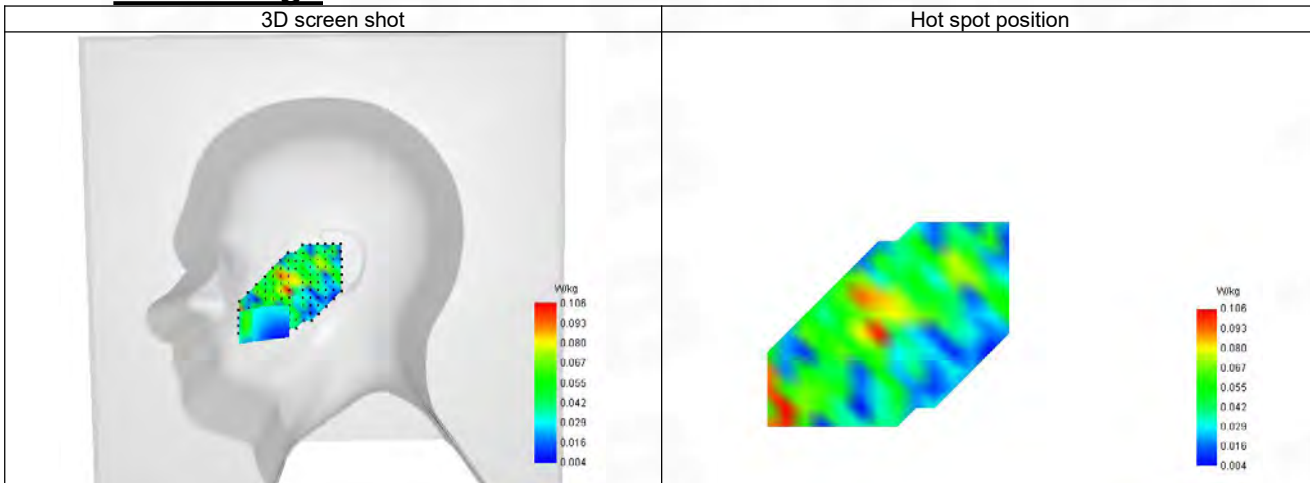
Vertical validation criteria: SAR ratio M2/M1 (%)	50.00%
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E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.230	0.068	0.034	0.027	0.022



F. 3D Image



26-Body with bottom position in dist. 10mm on Channel 41490 in LTE band 41

SAR Measurement at LTE band 41 (Body, Validation Plane)

Date of measurement: 13/6/2024

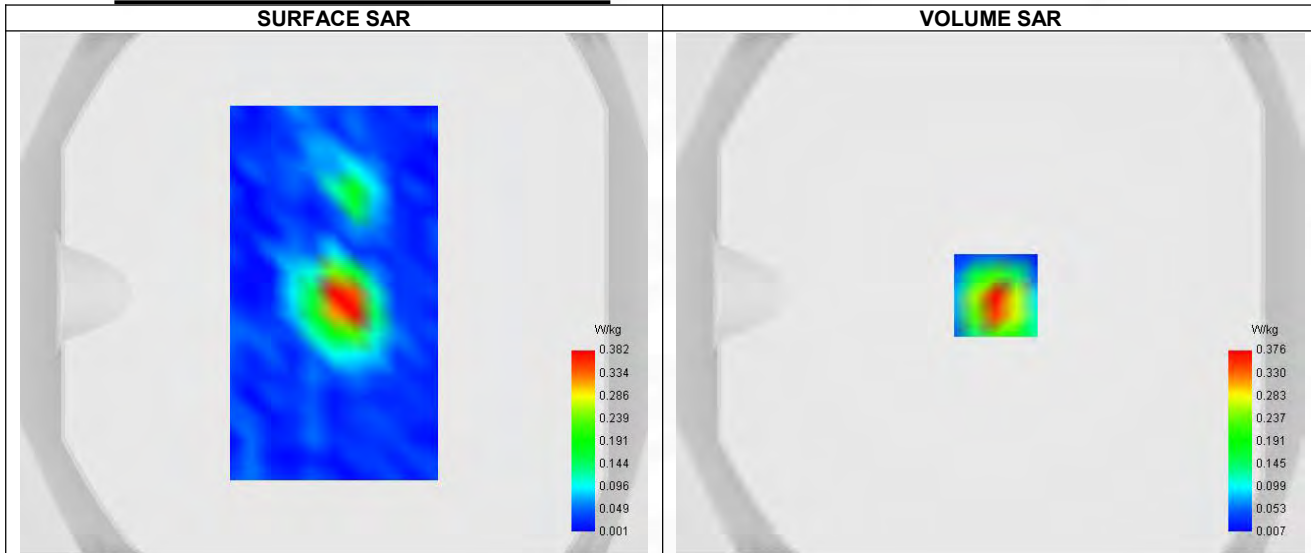
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.08
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Channels	Higher (41490)
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

B. Permittivity

Frequency (MHz)	2680.090
Relative permittivity (real part)	38.788
Relative permittivity (imaginary part)	12.800
Conductivity (S/m)	2.054

C. SAR Surface and Volume



Maximum location: X=2.00, Y=-1.00 ; SAR Peak: 0.67 W/kg

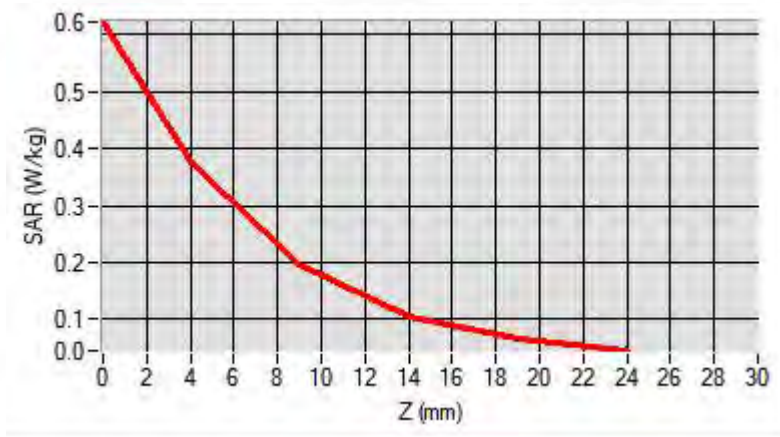
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.167
SAR 1g (W/Kg)	0.352
Variation (%)	-2.370
Horizontal validation criteria: minimum distance (mm)	9.065

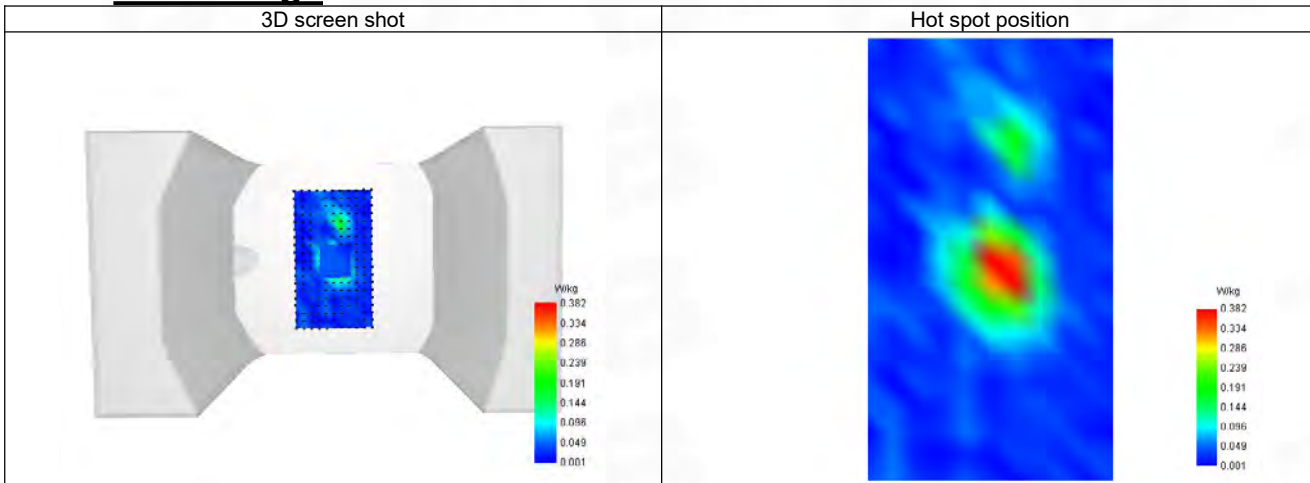
Vertical validation criteria: SAR ratio M2/M1 (%)	51.86%
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E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.622	0.376	0.195	0.106	0.066



F. 3D Image



27-Head with front position in dist. 0mm on Channel 132322 in LTE band 66

SAR Measurement at LTE band 66 (Cheek, Right)

Date of measurement: 7/6/2024

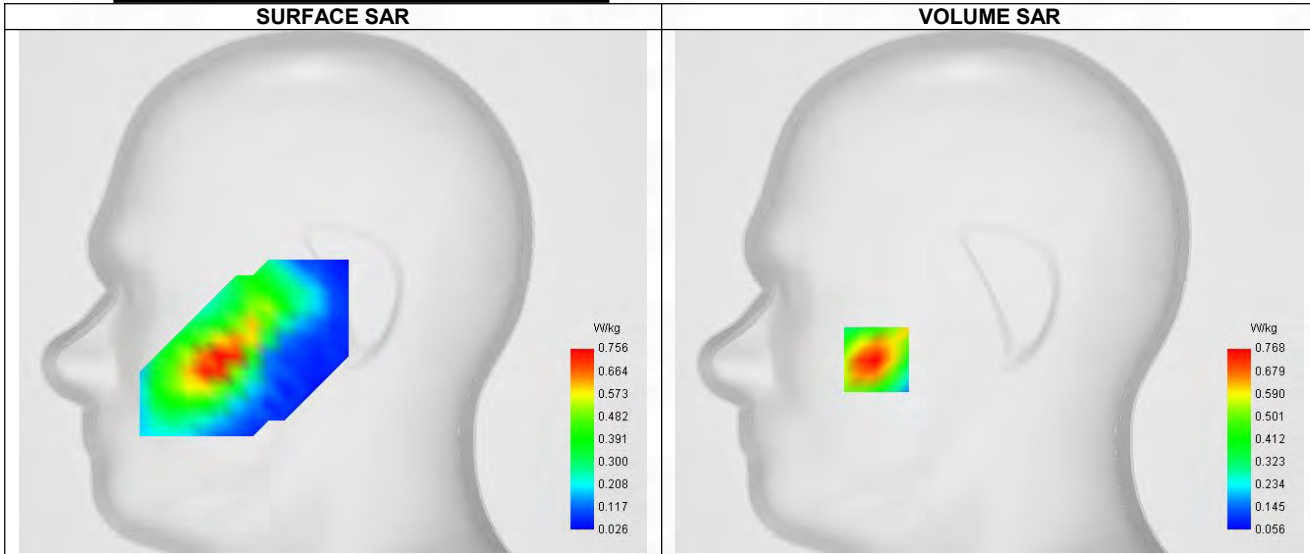
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 66
Channels	Middle (132322)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1745.090
Relative permittivity (real part)	39.995
Relative permittivity (imaginary part)	14.397
Conductivity (S/m)	1.342

C. SAR Surface and Volume



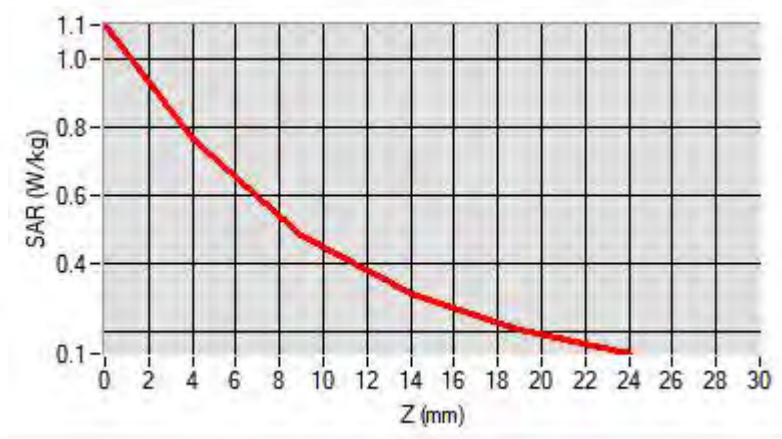
Maximum location: X=-56.00, Y=-34.00 ; SAR Peak: 1.10 W/kg

D. SAR 1g & 10g

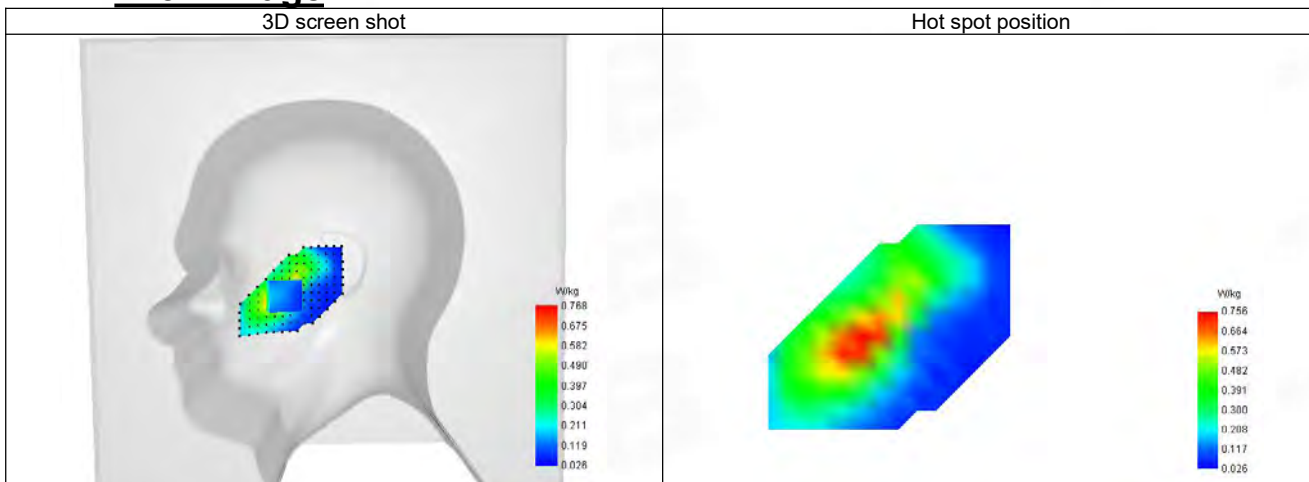
SAR 10g (W/Kg)	0.441
SAR 1g (W/Kg)	0.725
Variation (%)	-3.410
Horizontal validation criteria: minimum distance (mm)	9.587
Vertical validation criteria: SAR ratio M2/M1 (%)	63.15%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.102	0.768	0.485	0.311	0.206



F. 3D Image



28-Body with bottom position in dist. 10mm on Channel 132322 in LTE band 66

SAR Measurement at LTE band 66 (Body, Validation Plane)

Date of measurement: 7/6/2024

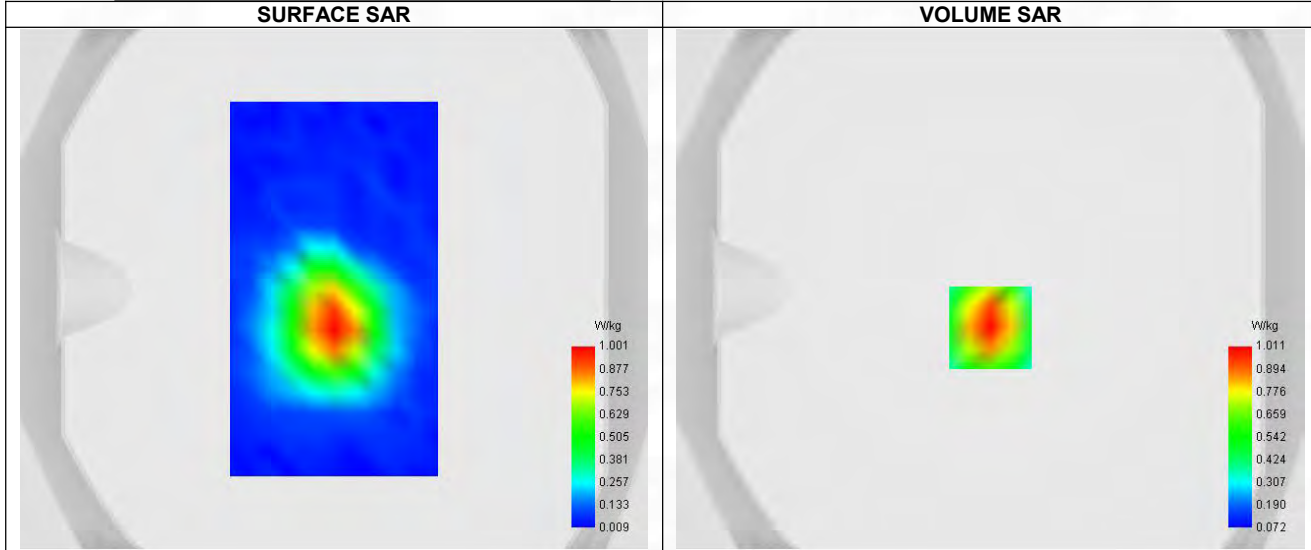
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 66
Channels	Middle (132322)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	1745.590
Relative permittivity (real part)	39.995
Relative permittivity (imaginary part)	14.397
Conductivity (S/m)	1.342

C. SAR Surface and Volume



Maximum location: X=0.00, Y=-15.00 ; SAR Peak: 1.53 W/kg

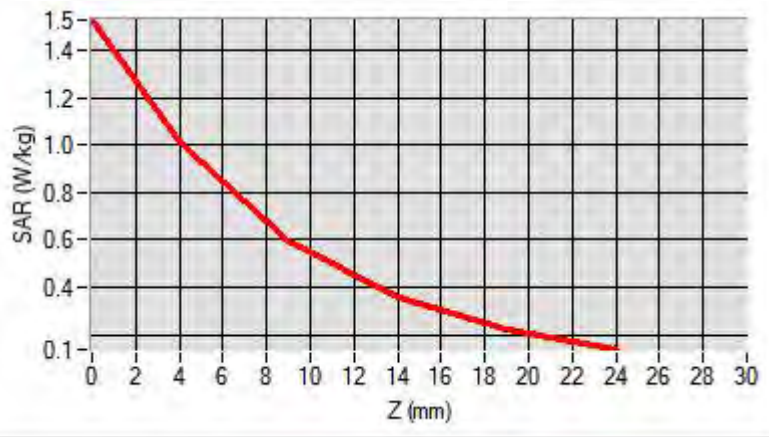
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.531
SAR 1g (W/Kg)	0.944
Variation (%)	-0.850
Horizontal validation criteria: minimum distance (mm)	8.474
Vertical validation criteria: SAR ratio M2/M1 (%)	58.75%

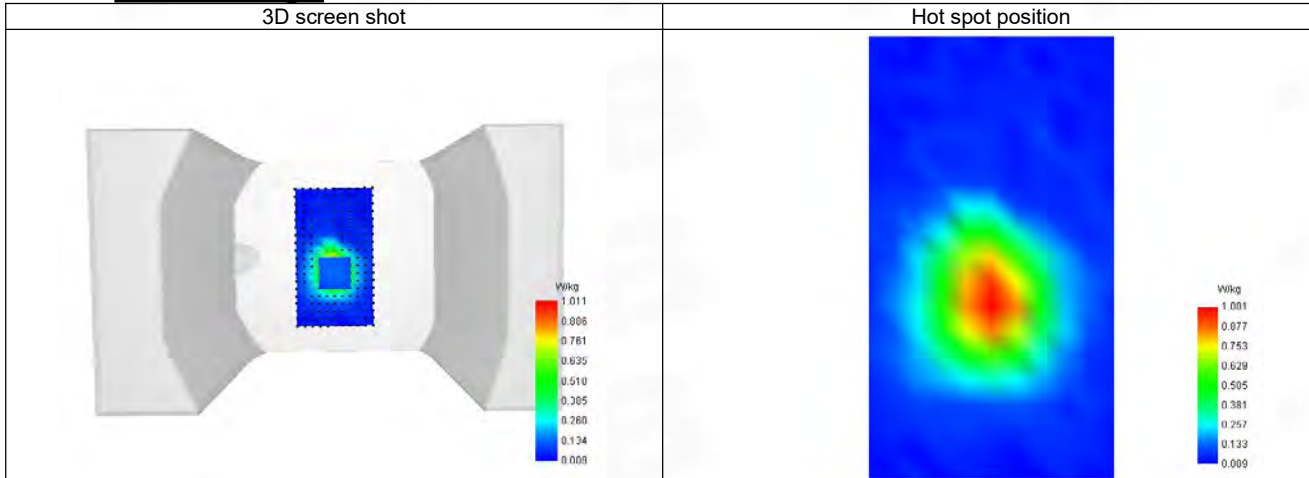
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	1.527	1.011	0.594	0.355	0.221
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F. 3D Image



29-Head with front position in dist. 0mm on Channel 133222 in LTE band 71

SAR Measurement at LTE band 71 (Cheek, Right)

Date of measurement: 5/6/2024

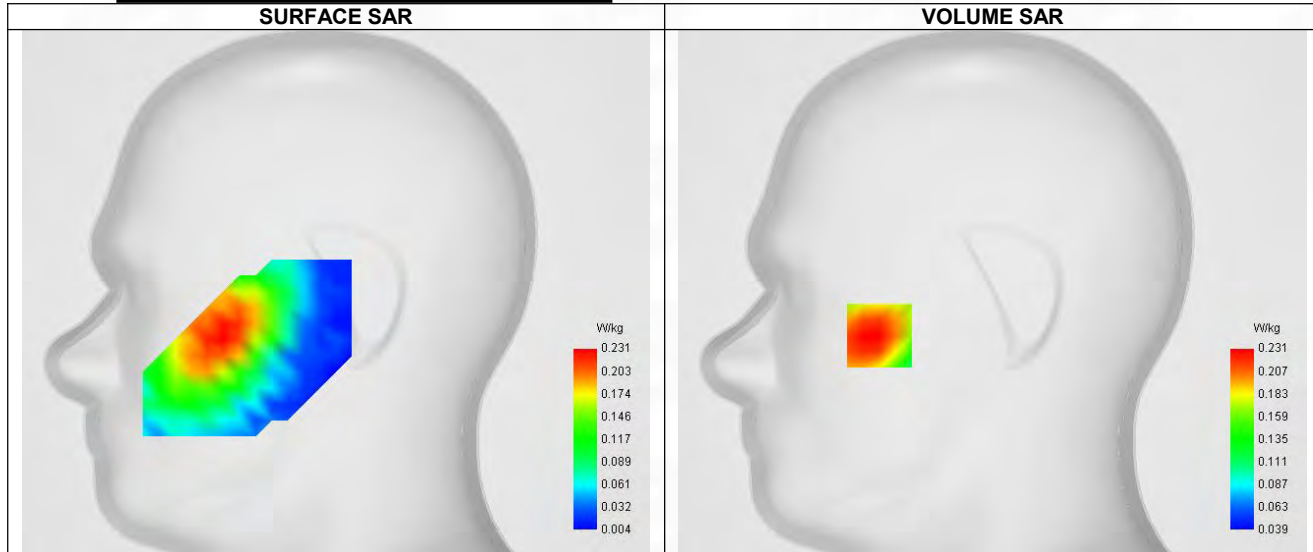
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.63
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 71
Channels	Lower (133222)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	673.090
Relative permittivity (real part)	42.153
Relative permittivity (imaginary part)	23.243
Conductivity (S/m)	0.851

C. SAR Surface and Volume



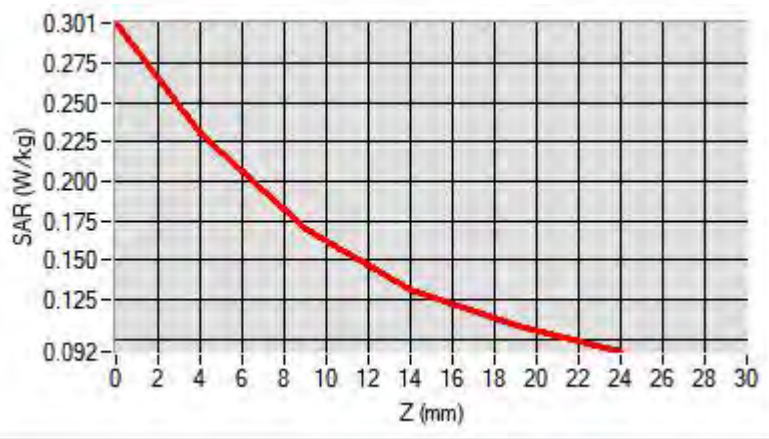
Maximum location: X=-56.00, Y=-22.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

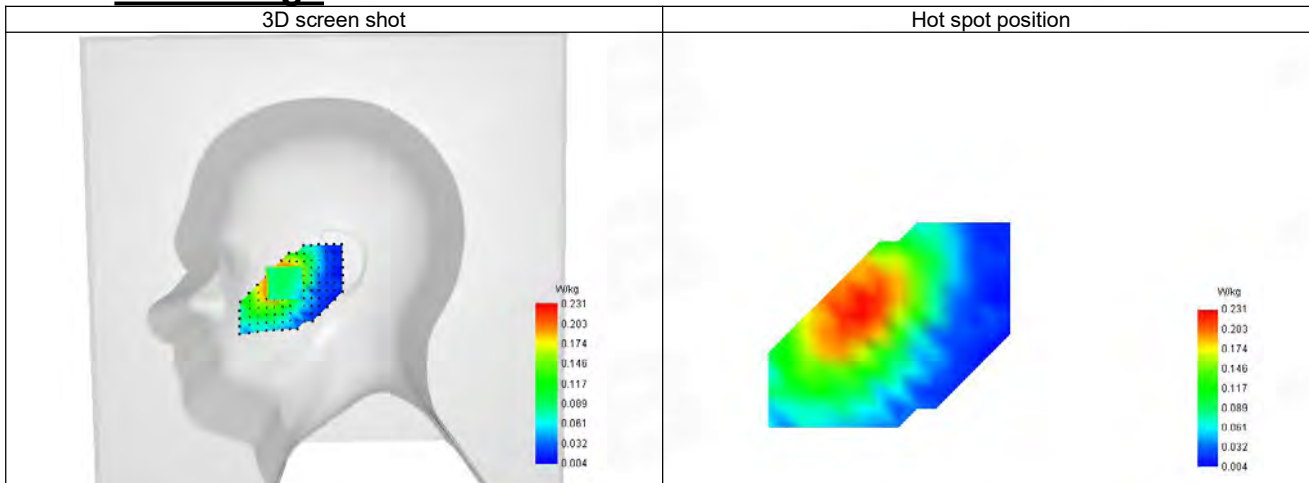
SAR 10g (W/Kg)	0.166
SAR 1g (W/Kg)	0.227
Variation (%)	4.370
Horizontal validation criteria: minimum distance (mm)	8.932
Vertical validation criteria: SAR ratio M2/M1 (%)	73.59%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.301	0.231	0.170	0.131	0.108



F. 3D Image



30-Body with back position in dist. 10mm on Channel 133222 in LTE band 71

SAR Measurement at LTE band 71 (Body, Validation Plane)

Date of measurement: 5/6/2024

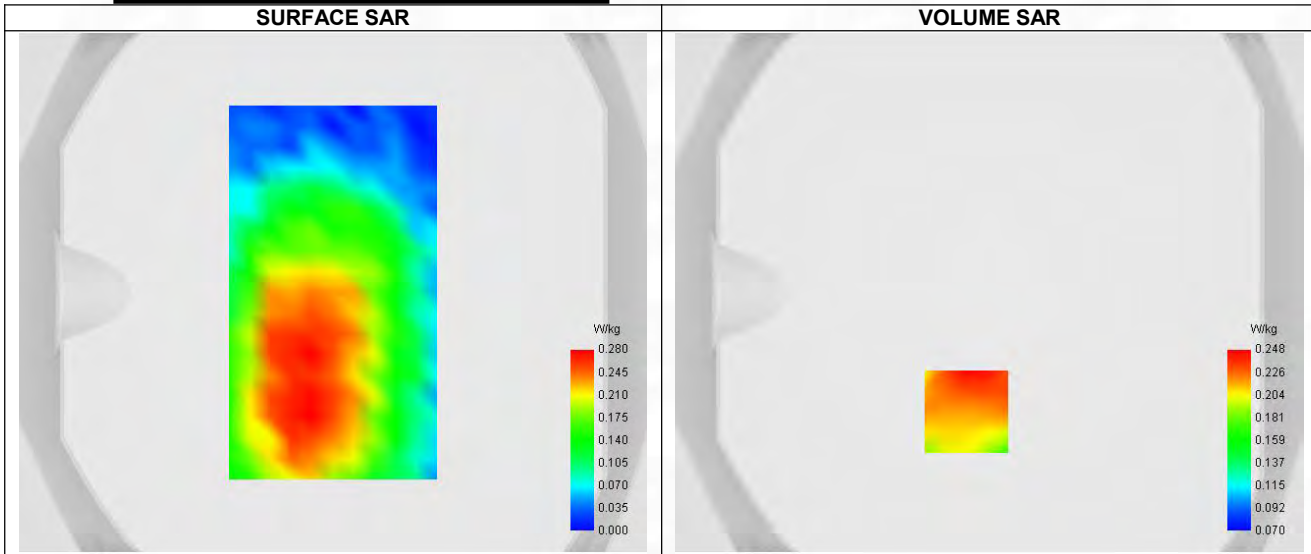
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.63
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 71
Channels	Lower (133222)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	673.090
Relative permittivity (real part)	42.153
Relative permittivity (imaginary part)	23.243
Conductivity (S/m)	0.851

C. SAR Surface and Volume



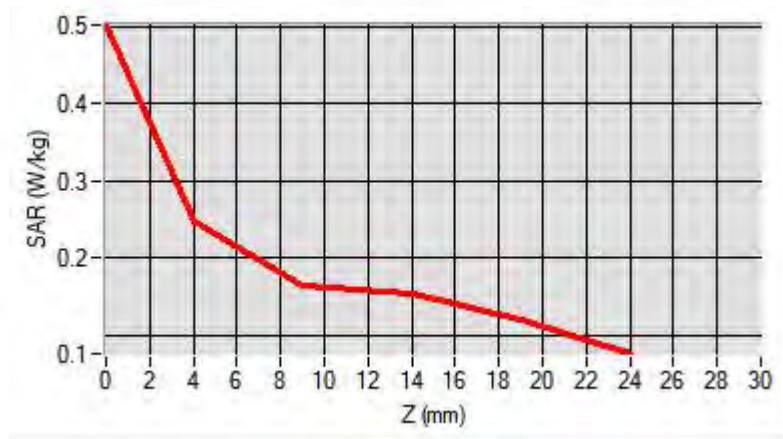
Maximum location: X=-9.00, Y=-46.00 ; SAR Peak: 0.31 W/kg

D. SAR 1g & 10g

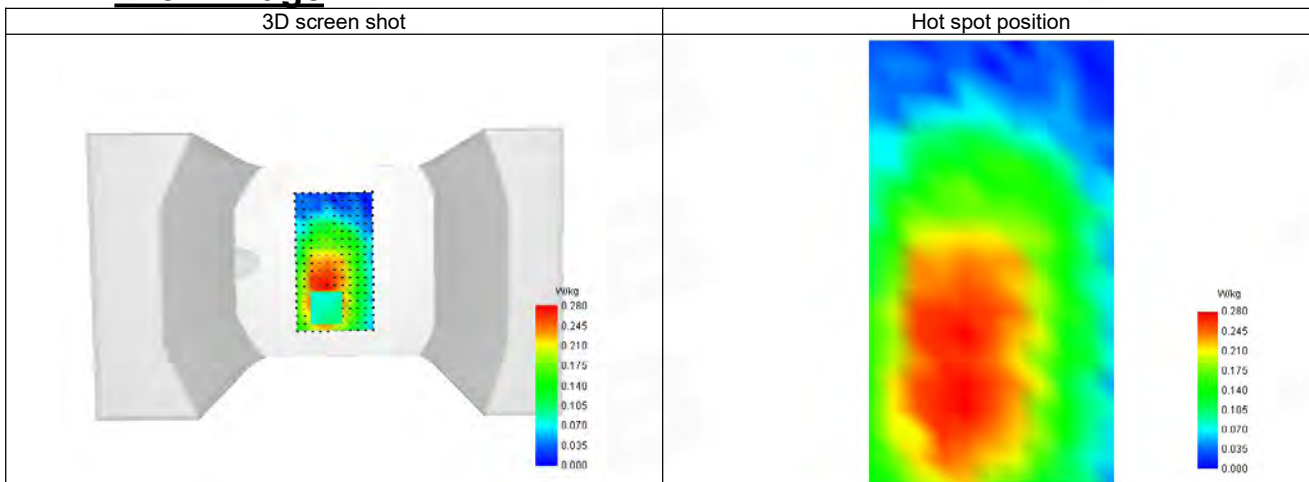
SAR 10g (W/Kg)	0.173
SAR 1g (W/Kg)	0.235
Variation (%)	-2.580
Horizontal validation criteria: minimum distance (mm)	11.269
Vertical validation criteria: SAR ratio M2/M1 (%)	66.53%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.502	0.248	0.165	0.154	0.120



F. 3D Image



31-Head with front position in dist. 0mm on Channel 11 in IEEE 802.11b ISM

SAR Measurement at IEEE 802.11b ISM (Cheek, Right)

Date of measurement: 12/6/2024

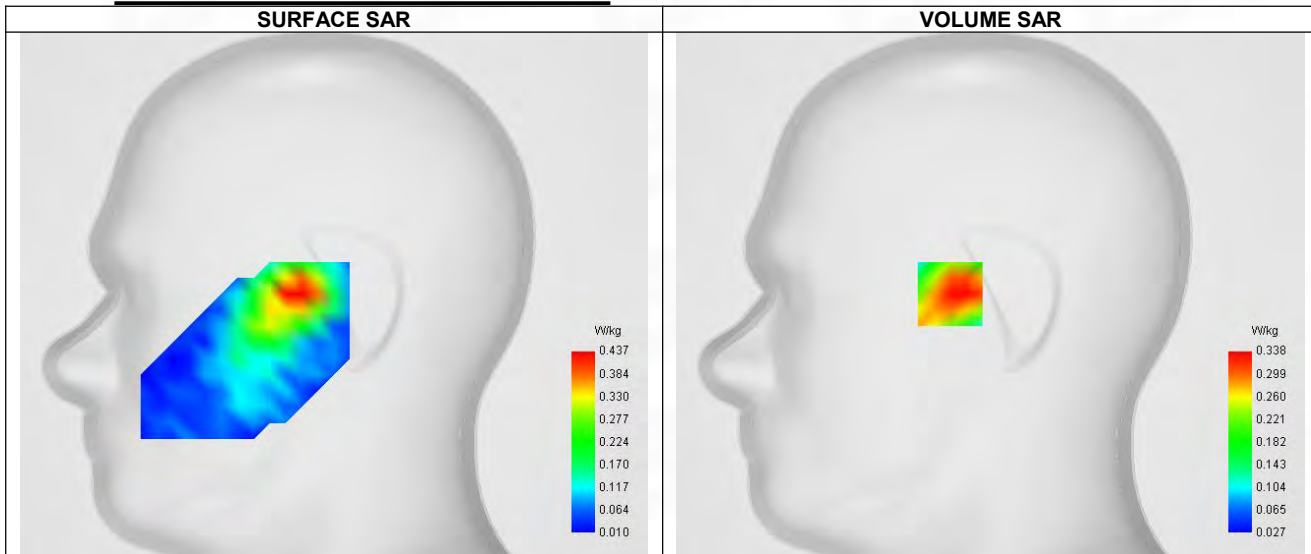
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.12
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Higher (11)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	2462.000
Relative permittivity (real part)	39.064
Relative permittivity (imaginary part)	13.288
Conductivity (S/m)	1.823

C. SAR Surface and Volume



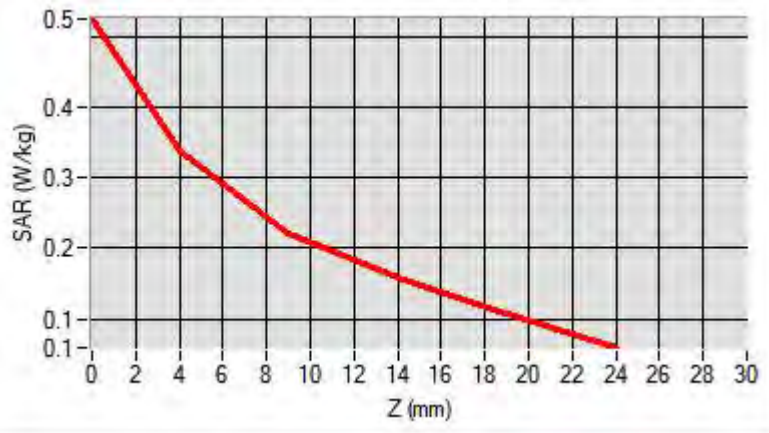
Maximum location: X=-20.00, Y=0.00 ; SAR Peak: 0.51 W/kg

D. SAR 1g & 10g

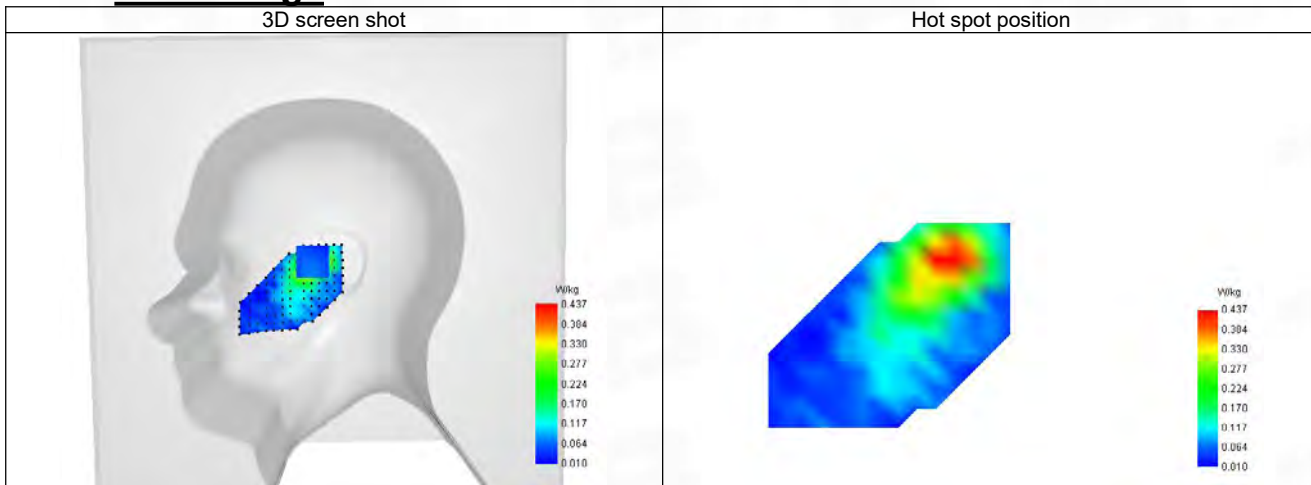
SAR 10g (W/Kg)	0.214
SAR 1g (W/Kg)	0.337
Variation (%)	-3.500
Horizontal validation criteria: minimum distance (mm)	8.714
Vertical validation criteria: SAR ratio M2/M1 (%)	65.09%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.524	0.338	0.220	0.158	0.107



F. 3D Image



32-Body with back position in dist. 10mm on Channel 11 in IEEE 802.11b ISM

SAR Measurement at IEEE 802.11b ISM (Body, Validation Plane)

Date of measurement: 12/6/2024

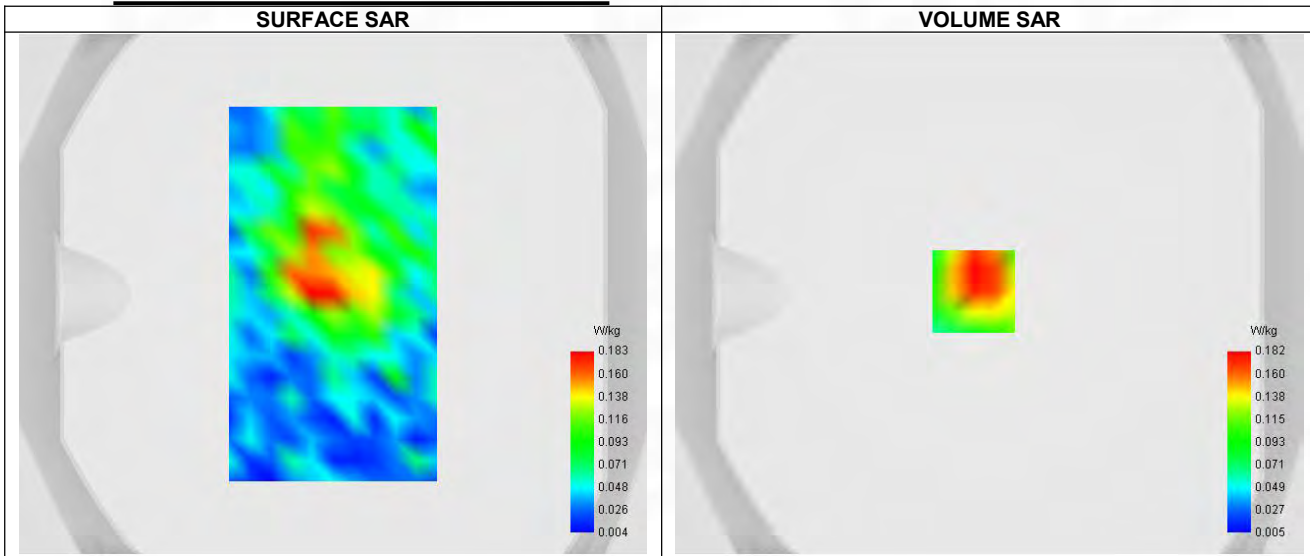
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.12
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Higher (11)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	2462.000
Relative permittivity (real part)	39.064
Relative permittivity (imaginary part)	13.288
Conductivity (S/m)	1.823

C. SAR Surface and Volume



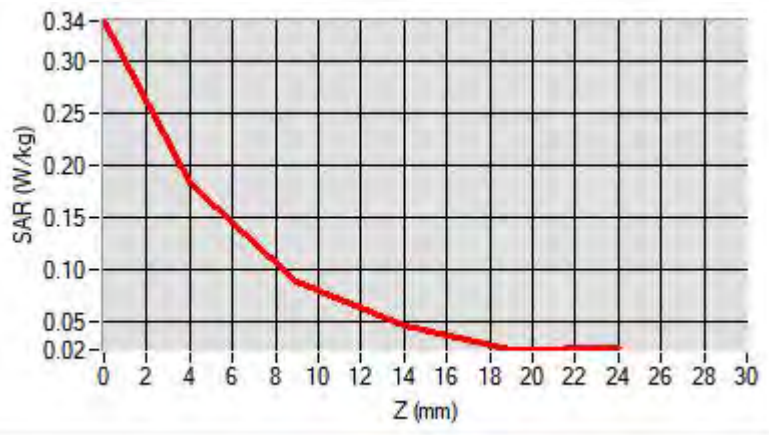
Maximum location: X=-6.00, Y=1.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

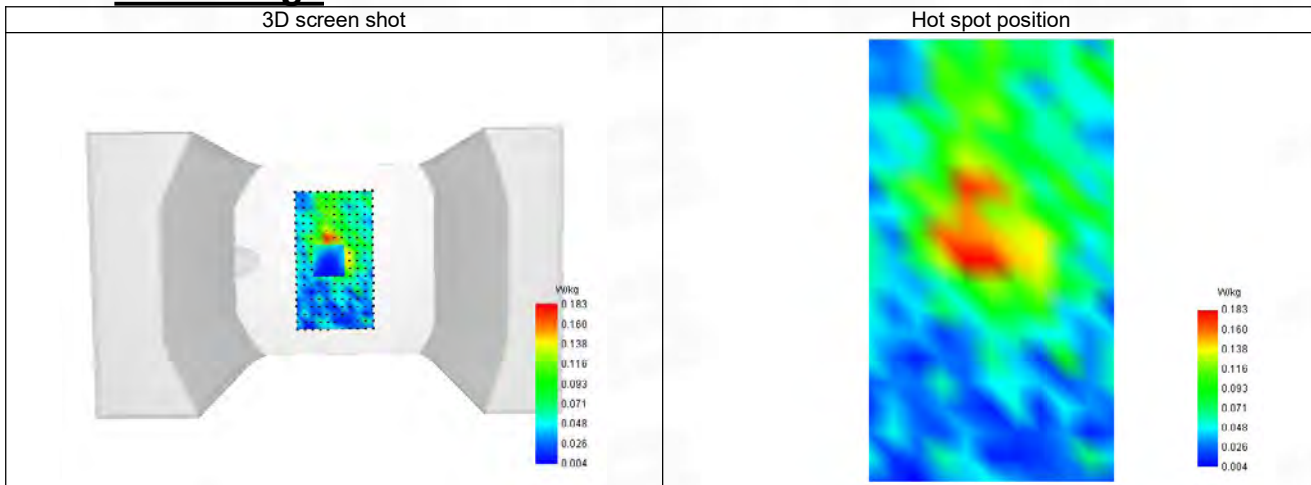
SAR 10g (W/Kg)	0.102
SAR 1g (W/Kg)	0.180
Variation (%)	3.030
Horizontal validation criteria: minimum distance (mm)	10.857
Vertical validation criteria: SAR ratio M2/M1 (%)	48.09%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.339	0.182	0.089	0.046	0.022



F. 3D Image



33-Head with front position in dist. 0mm on Channel 38 in IEEE 802.11n U-NII

SAR Measurement at IEEE 802.11n U-NII (Cheek, Right)

Date of measurement: 14/6/2024

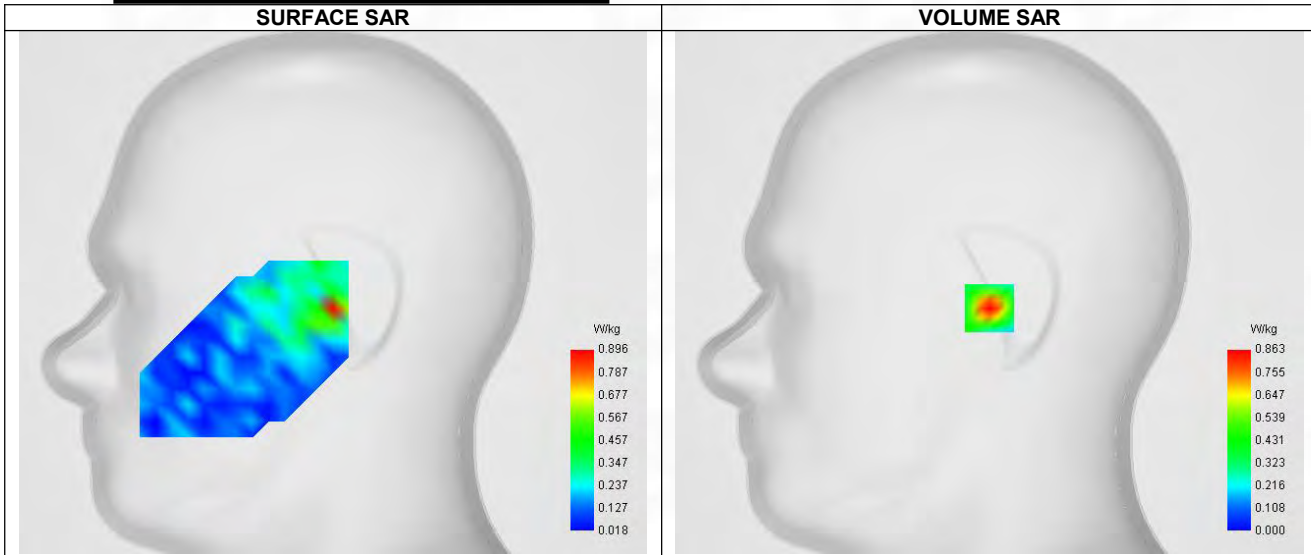
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x12, dx=4mm dy=4mm dz=2mm, Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11n U-NII
Channels	Lower (38)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5190.000
Relative permittivity (real part)	35.892
Relative permittivity (imaginary part)	16.236
Conductivity (S/m)	4.690

C. SAR Surface and Volume



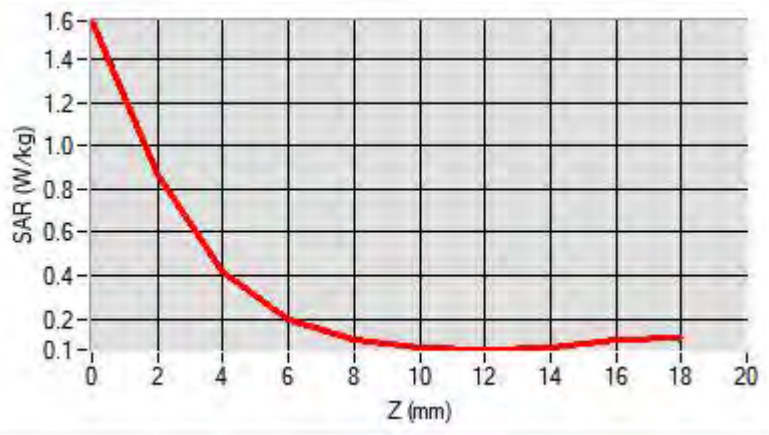
Maximum location: X=0.00, Y=-8.00 ; SAR Peak: 2.72 W/kg

D. SAR 1g & 10g

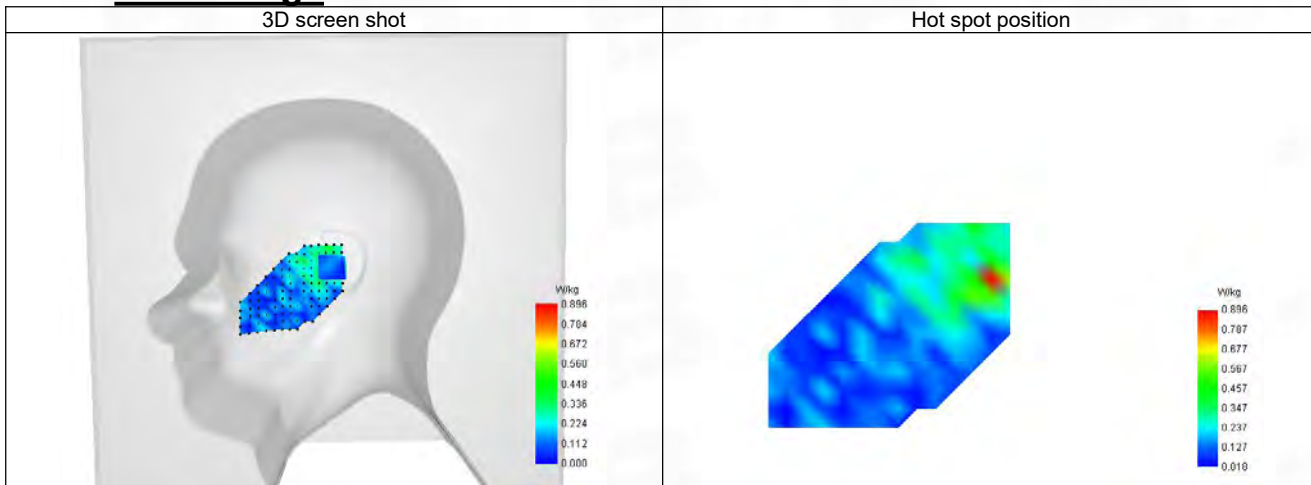
SAR 10g (W/Kg)	0.332
SAR 1g (W/Kg)	0.716
Variation (%)	2.030
Horizontal validation criteria: minimum distance (mm)	8.932
Vertical validation criteria: SAR ratio M2/M1 (%)	48.90%

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)	1.576	0.863	0.422	0.197	0.100	0.064	0.058	0.071	0.102



F. 3D Image



34-Body with back position in dist. 10mm on Channel 38 in IEEE 802.11n U-NII

SAR Measurement at IEEE 802.11n U-NII (Body, Validation Plane)

Date of measurement: 13/6/2024

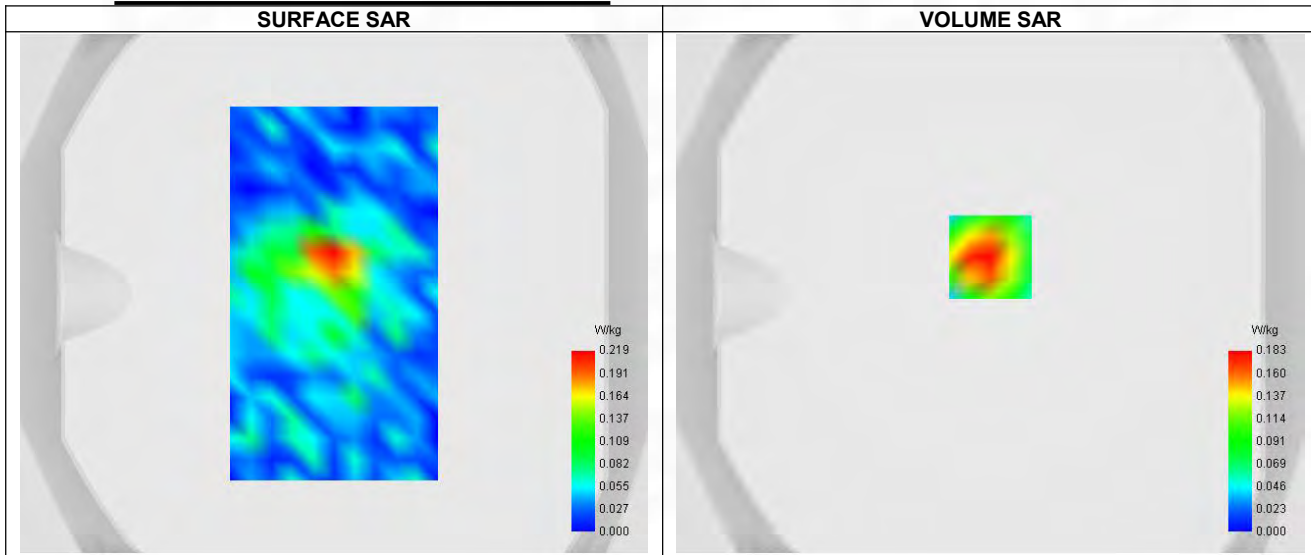
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x12, dx=4mm dy=4mm dz=2mm, Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11n U-NII
Channels	Lower (38)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5190.000
Relative permittivity (real part)	33.932
Relative permittivity (imaginary part)	16.287
Conductivity (S/m)	4.696

C. SAR Surface and Volume



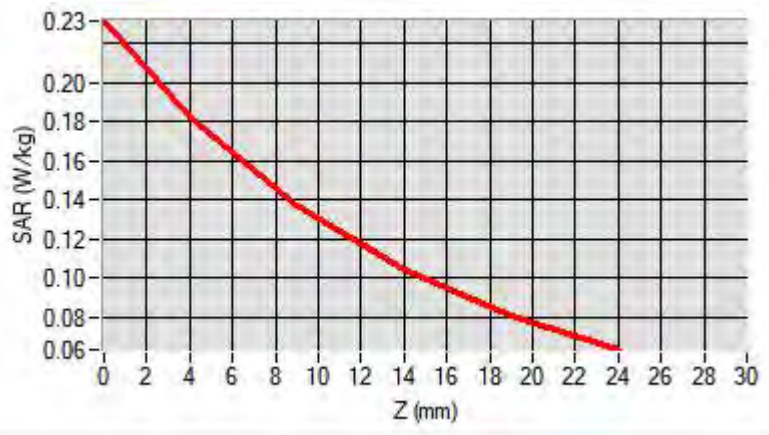
Maximum location: X=0.00, Y=14.00 ; SAR Peak: 0.24 W/kg

D. SAR 1g & 10g

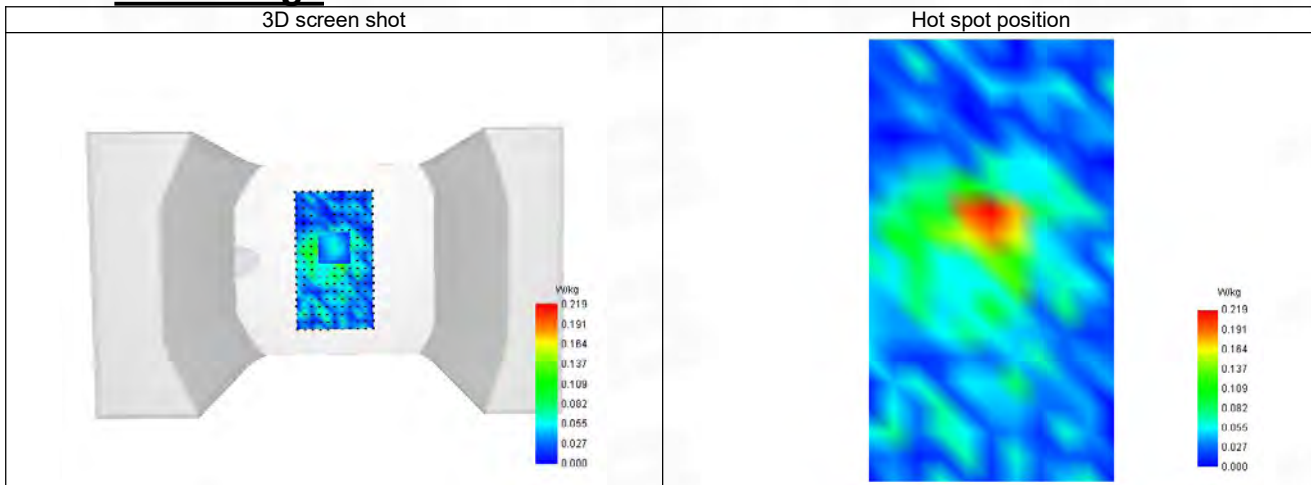
SAR 10g (W/Kg)	0.113
SAR 1g (W/Kg)	0.175
Variation (%)	3.180
Horizontal validation criteria: minimum distance (mm)	6.987
Vertical validation criteria: SAR ratio M2/M1 (%)	66.12%

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)	0.279	0.183	0.121	0.098	0.075	0.054	0.033	0.045	0.027



F. 3D Image



35-Head with front position in dist. 0mm on Channel 151 in IEEE 802.11ac U-NII

SAR Measurement at IEEE 802.11ac U-NII (Cheek, Right)

Date of measurement: 14/6/2024

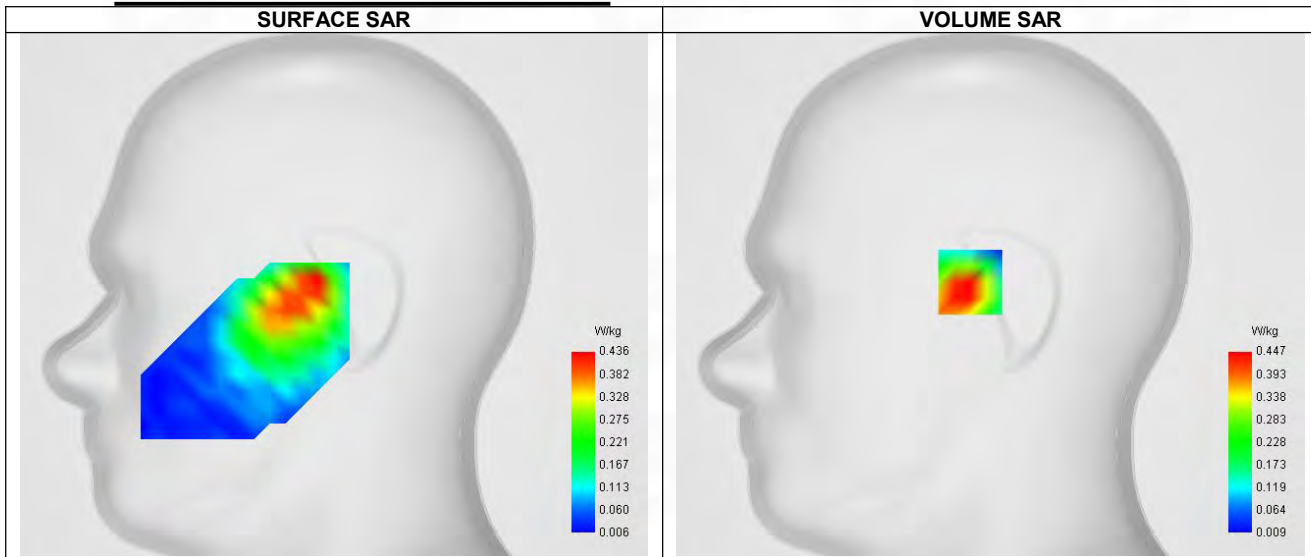
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x12, dx=4mm dy=4mm dz=2mm, Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11ac U-NII
Channels	Lower (151)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5755.000
Relative permittivity (real part)	35.225
Relative permittivity (imaginary part)	16.467
Conductivity (S/m)	5.265

C. SAR Surface and Volume



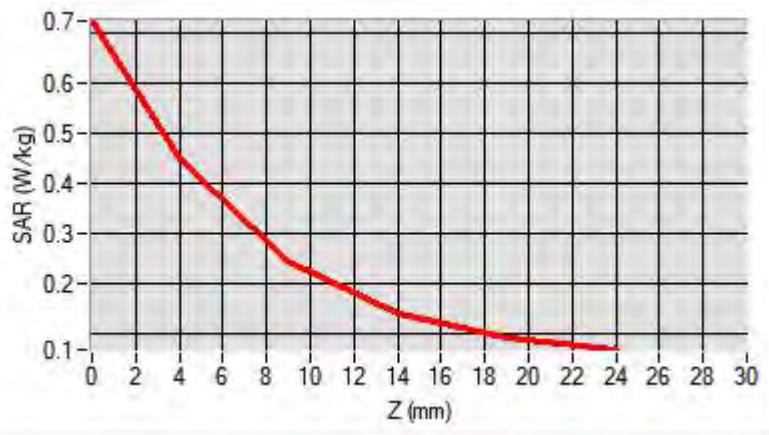
Maximum location: X=-10.00, Y=6.00 ; SAR Peak: 0.74 W/kg

D. SAR 1g & 10g

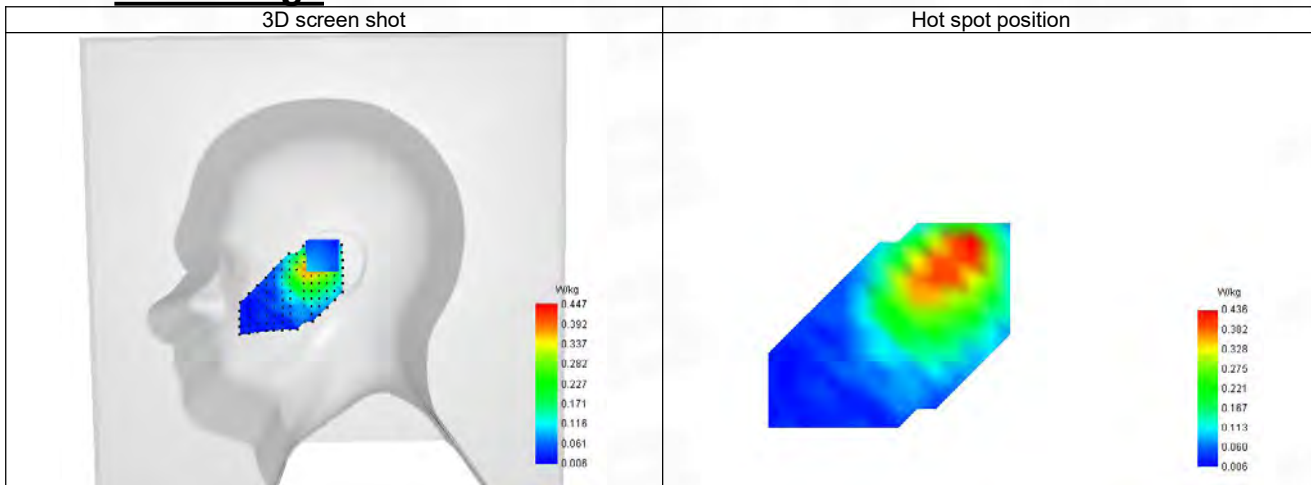
SAR 10g (W/Kg)	0.264
SAR 1g (W/Kg)	0.448
Variation (%)	-3.600
Horizontal validation criteria: minimum distance (mm)	7.365
Vertical validation criteria: SAR ratio M2/M1 (%)	69.35%

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)	0.540	0.447	0.310	0.278	0.195	0.163	0.115	0.100	0.089



F. 3D Image



36-Body with back position in dist. 10mm on Channel 151 in IEEE 802.11ac U-NII

SAR Measurement at IEEE 802.11ac U-NII (Body, Validation Plane)

Date of measurement: 14/6/2024

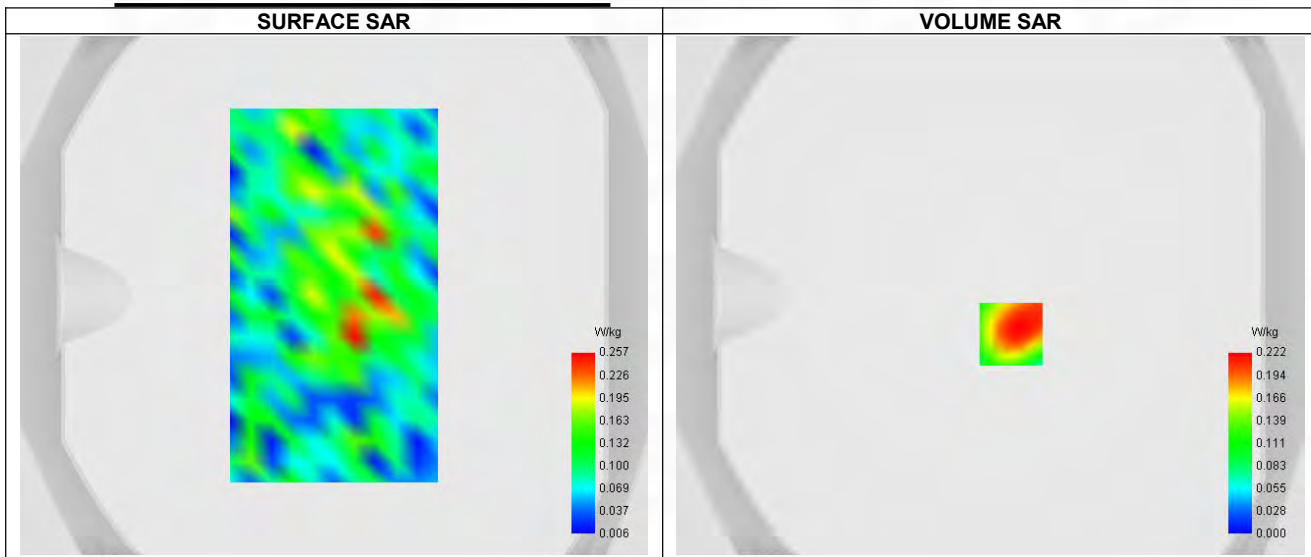
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x12, dx=4mm dy=4mm dz=2mm, Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11ac U-NII
Channels	Lower (151)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5755.000
Relative permittivity (real part)	35.225
Relative permittivity (imaginary part)	16.467
Conductivity (S/m)	5.265

C. SAR Surface and Volume



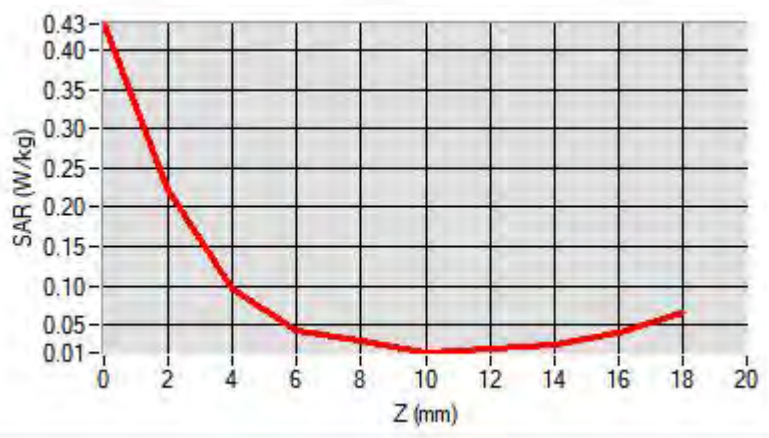
Maximum location: X=8.00, Y=-15.00 ; SAR Peak: 0.52 W/kg

D. SAR 1g & 10g

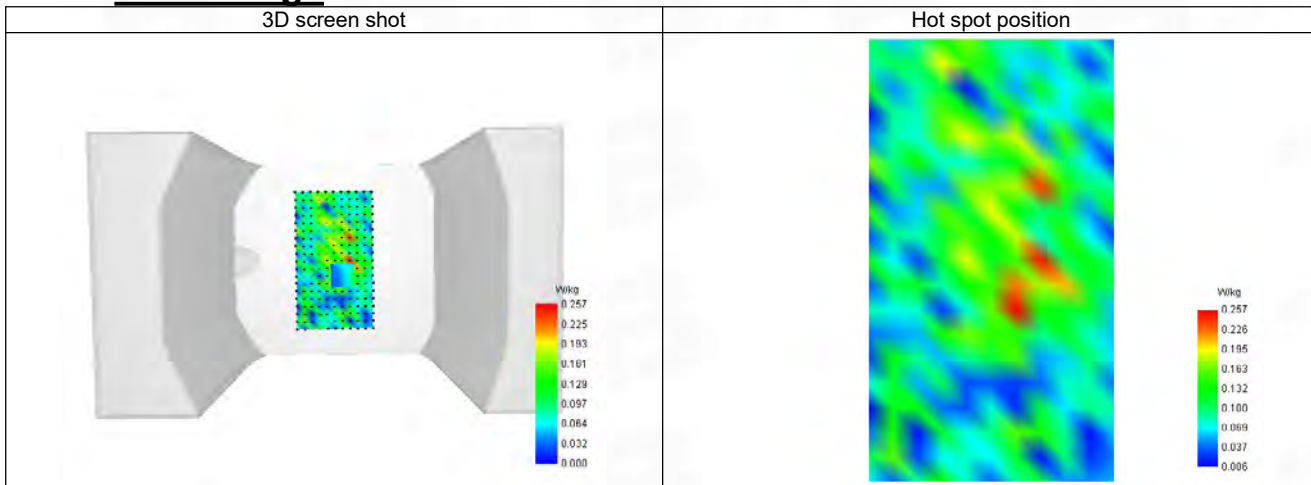
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.172
Variation (%)	-1.890
Horizontal validation criteria: minimum distance (mm)	6.487
Vertical validation criteria: SAR ratio M2/M1 (%)	44.14%

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)	0.434	0.222	0.098	0.043	0.030	0.015	0.019	0.025	0.041



F. 3D Image



37-Head with front position in dist. 0mm on Channel 78 in Bluetooth

SAR Measurement at Bluetooth (Cheek, Right)

Date of measurement: 12/6/2024

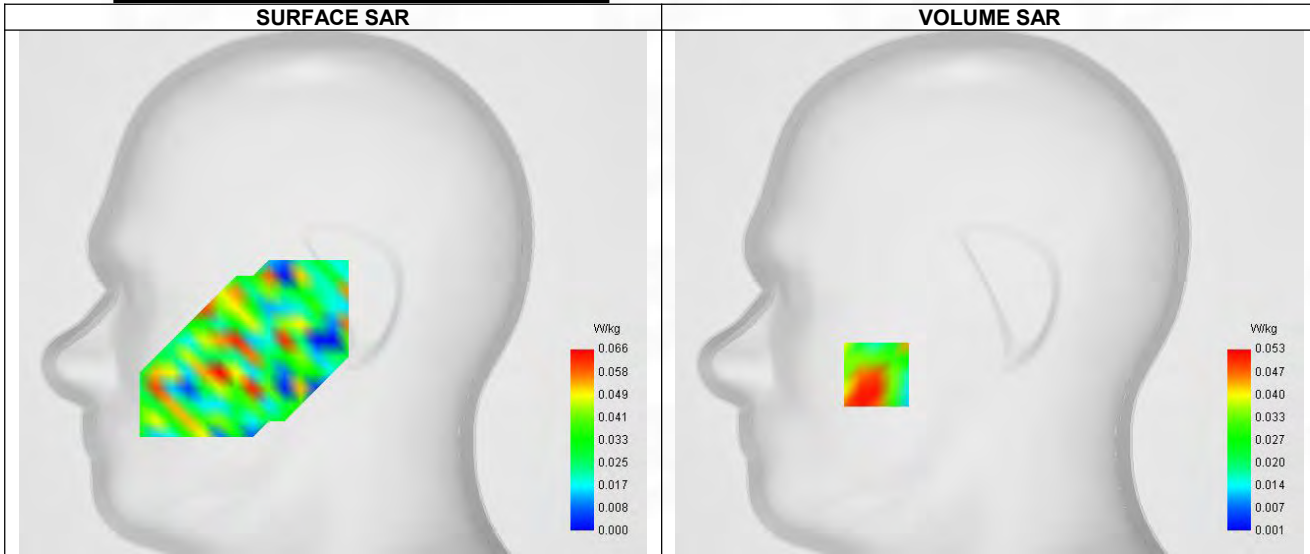
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	Bluetooth
Channels	Higher (78)
Signal	Bluetooth

B. Permittivity

Frequency (MHz)	2480.000
Relative permittivity (real part)	39.040
Relative permittivity (imaginary part)	13.210
Conductivity (S/m)	1.842

C. SAR Surface and Volume



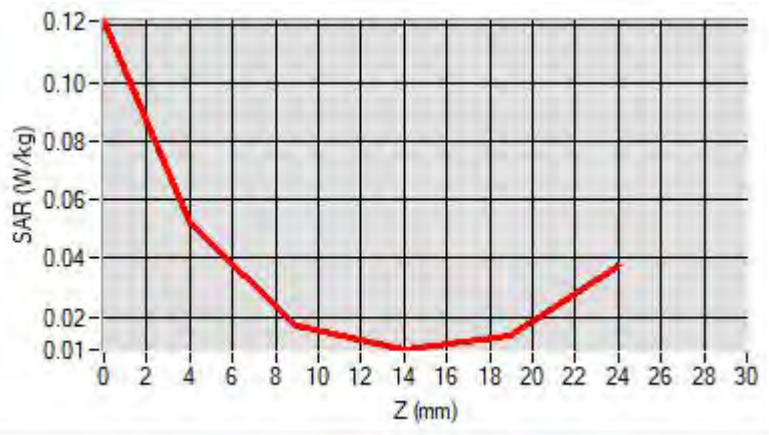
Maximum location: X=-56.00, Y=-41.00 ; SAR Peak: 0.12 W/kg

D. SAR 1g & 10g

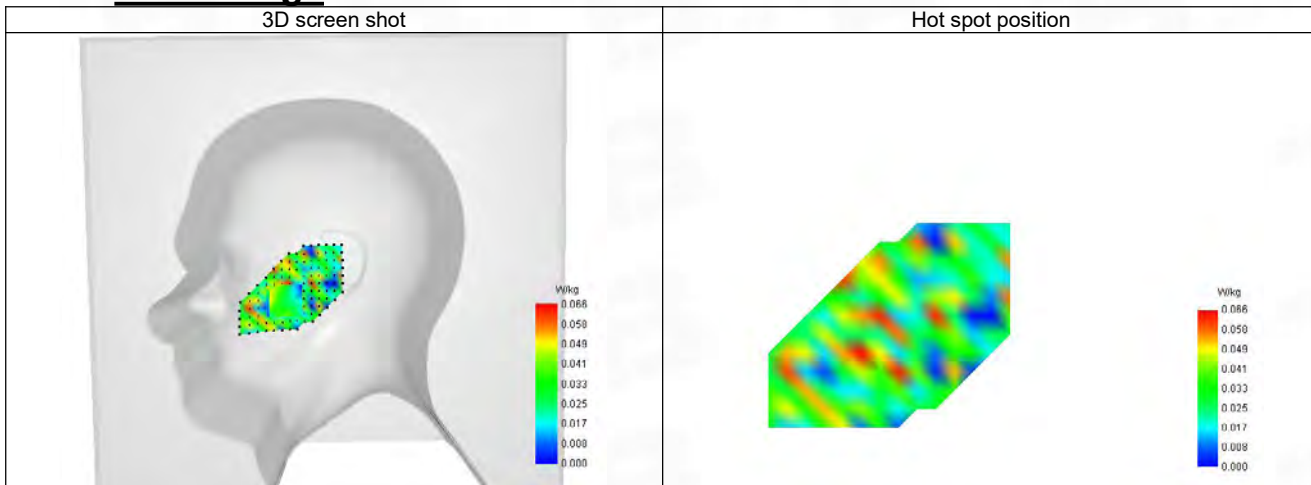
SAR 10g (W/Kg)	0.038
SAR 1g (W/Kg)	0.053
Variation (%)	3.000
Horizontal validation criteria: minimum distance (mm)	8.926
Vertical validation criteria: SAR ratio M2/M1 (%)	50.94%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.122	0.053	0.027	0.019	0.013

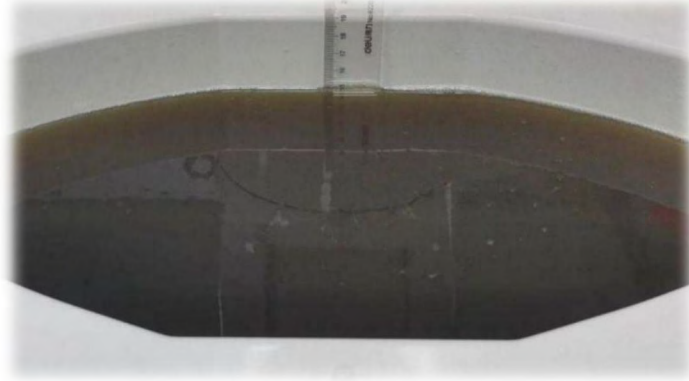


F. 3D Image



ANNEX E SAR Test Setup Photos

Reference Photo: simulation liquid depth 15cm



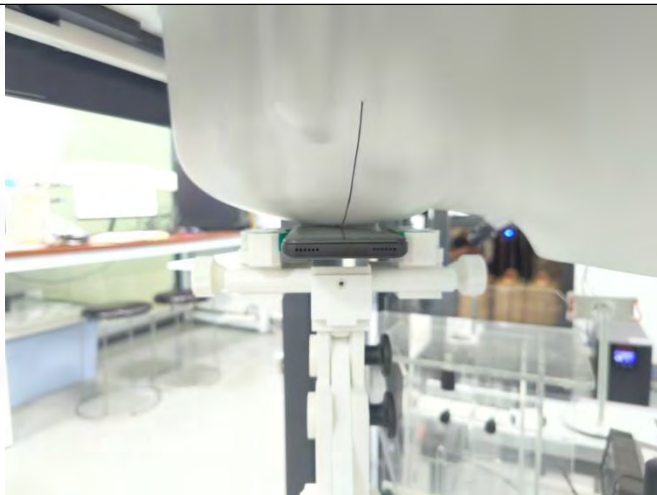
Reference Photos



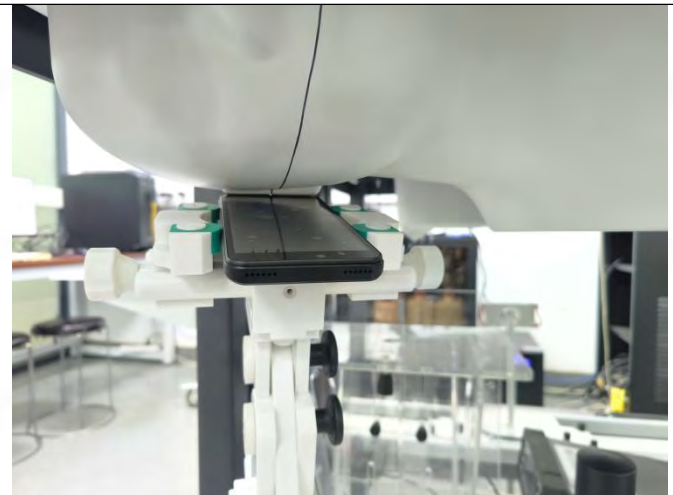
Left Head - Cheek



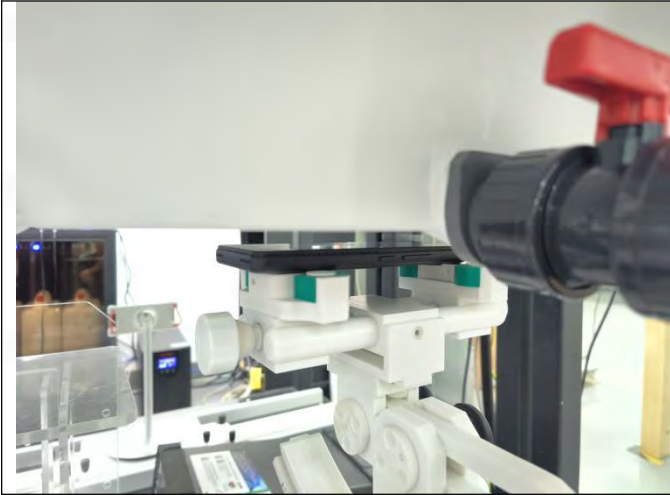
Left Head - Tilt



Right Head - Cheek



Right Head - Tilt



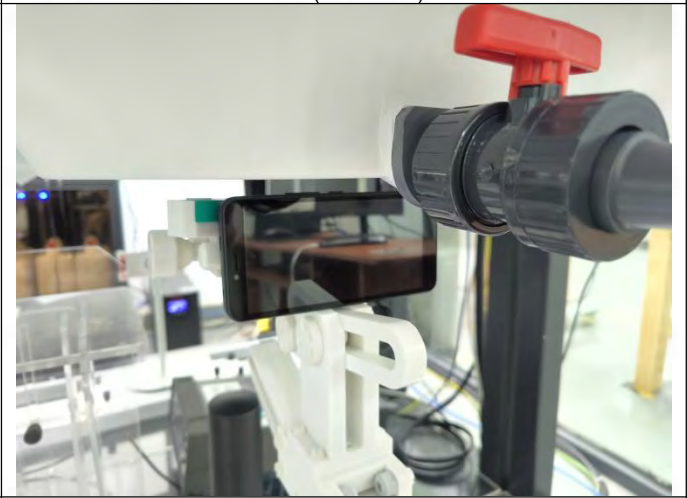
Front (dist. 10mm)



Back (dist. 10mm)



Left (dist. 10mm)



Right (dist. 10mm)



Top (dist. 10mm)



Bottom (dist. 10mm)

ANNEX F EUT External and Internal Photos

Please refer to RF Report.

ANNEX G Calibration Information

Please refer to the document "Calibration.pdf".



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