



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: MIRO, FOXXD, AIRVOICE, FOXXD HTH
Model Number: C67

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: BTF240730R00601
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-C67

Test Conclusion: Pass
Test Date: 2024-08-09 to 2024-08-27
Date of Issue: 2024-08-28

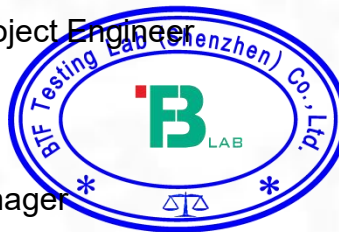
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Date: 2024-08-28

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Date: 2024-08-28



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2024-08-28	Original
<i>Note:</i>	<i>Once the revision has been made, then previous versions reports are invalid.</i>	

Table of Contents

1. Introduction	4
1.1 Identification of Testing Laboratory	4
1.2 Identification of the Responsible Testing Location	4
1.3 Laboratory Condition	4
1.4 Announcement	4
2. Product Information	5
2.1 Application Information	5
2.2 Manufacturer Information	5
2.3 Factory Information	5
2.4 General Description of Equipment under Test (EUT)	5
2.5 Equipment under Test Ancillary Equipment	5
2.6 Technical Information	5
3. Summary of Test Results	7
3.1 Test Standards	7
3.2 Device Category and SAR Limit	7
3.3 Test Result Summary	8
3.4 Test Uncertainty	9
4. Measurement System	11
4.1 Specific Absorption Rate (SAR) Definition	11
4.2 MVG SAR System	11
5. System Verification	16
5.1 Purpose of System Check	16
5.2 System Check Setup	16
6. TEST POSITION CONFIGURATIONS	17
6.1 Head Exposure Conditions	17
6.2 Body-worn Position Conditions	22
6.3 Hotspot Mode Exposure Position Conditions	23
6.4 Product Specific 10g Exposure Consideration	23
7. Measurement Procedure	24
7.1 Measurement Process Diagram	24
7.2 SAR Scan General Requirement	25
7.3 Measurement Procedure	26
7.4 Area & Zoom Scan Procedure	26
8. Conducted RF Output Power	27
8.1 GSM	27
8.2 WCDMA	28
8.3 LTE	29
8.4 Wi-Fi	48
8.5 Bluetooth	49
9. Test Exclusion Consideration	50
9.1 SAR Test Exclusion Consideration Table	50
10. Test Result	51
11. SAR Measurement Variability	59
12. Simultaneous Transmission	60
12.1 Simultaneous Transmission Mode Considerations	60
12.2 Sum SAR of Simultaneous Transmission	60
13. Test Equipment List	61
ANNEX A Simulating Liquid Verification Result	62
ANNEX B System Check Result	62
ANNEX C SAR Dipole Calibrations	63
ANNEX D Test Data	86
ANNEX E SAR Test Setup Photos	180
ANNEX F EUT External and Internal Photos	182
ANNEX G Calibration Information	182

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	C67
Sample No.	BTFSN240730013/5 E1-E5

2.5 Equipment under Test Ancillary Equipment

Ancillary Equipment 1	Rechargeable Battery	
	Capacity	4900mAh
	Nominal Voltage	3.87V

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 2/4/5/7/12/13/17/25/26/66/71 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(VHT20/40/80) Bluetooth (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 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 698 ~ 716 MHz	RX: 728 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26 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(VHT20/40/80)	U-NII-1: 5180 MHz ~ 5240 MHz, U-NII-2A: 5260 MHz ~ 5320 MHz, U-NII-2C: 5500 MHz ~ 5720 MHz, U-NII-3: 5745 MHz ~ 5825 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	0.117	PCE	0.796
	GSM 1900	0.216		
	WCDMA Band II	0.557		
	WCDMA Band IV	0.139		
	WCDMA Band V	0.279		
	LTE Band 2	0.796		
	LTE Band 4	0.561		
	LTE Band 5	0.132		
	LTE Band 7	0.205		
	LTE Band 12	0.109		
	LTE Band 13	0.145		
	LTE Band 17	0.221		
	LTE Band 25	0.787		
	LTE Band 26 part 90	0.274		
	LTE Band 26 part 22	0.303		
	LTE Band 41	0.594		
	LTE Band 66	0.777		
	LTE Band 71	0.195		
	WLAN 2.4 GHz	0.195		
	Bluetooth	0.156	DSS	
WLAN 5.2 GHz	0.232	NII		
WLAN 5.4 GHz	0.471			
WLAN 5.6 GHz	0.360			
WLAN 5.8 GHz	0.303			
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	0.216	PCE	0.792
	GSM 1900	0.446		
	WCDMA Band II	0.671		
	WCDMA Band IV	0.356		
	WCDMA Band V	0.279		
	LTE Band 2	0.721		
	LTE Band 4	0.355		
	LTE Band 5	0.337		
	LTE Band 7	0.586		
	LTE Band 12	0.287		
	LTE Band 13	0.133		
	LTE Band 17	0.287		
	LTE Band 25	0.792		
	LTE Band 26 part 90	0.331		
	LTE Band 26 part 22	0.240		
	LTE Band 41	0.384		
	LTE Band 66	0.255		
	LTE Band 71	0.287		
	WLAN 2.4 GHz	0.139		
	WLAN 5.2 GHz	0.134	NII	
WLAN 5.4 GHz	0.246			
WLAN 5.6 GHz	0.466			
WLAN 5.8 GHz	0.480			

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 2 + 5G WIFI	1.267	1.6	Pass
Hotspot(Body) 1-g SAR (10 mm Gap)	LTE Band 25 + 5G WIFI	1.272	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:

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

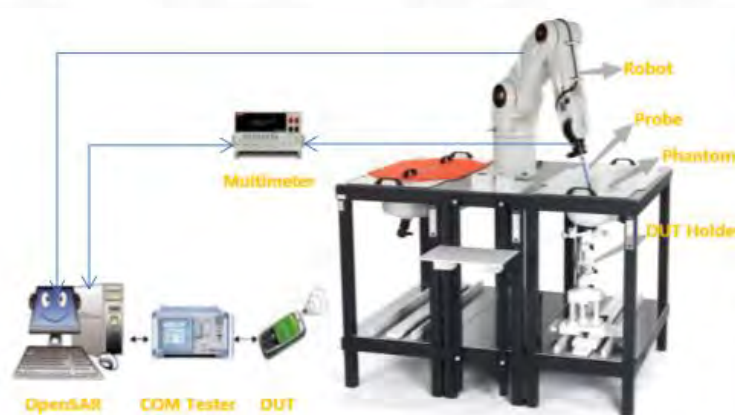
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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 mm±0.2 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±0.2 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.



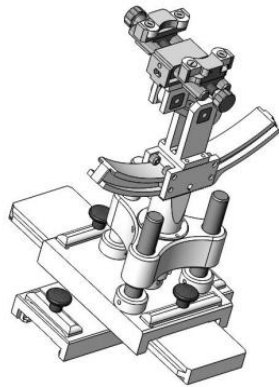
ELLI Phantom

The shape of the phantom is an ellipse with length 600mm±5mm and width 400mm±5mm. 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 $f \leq 3$ GHz
 $3 \leq \epsilon_r' \leq 5$ for $f > 3$ GHz
 The thickness of the bottom-wall of the flat phantom is 2.0 mm with a tolerance of ± 0.2 mm.

Technical & mechanical characteristics

Shell thickness	2 mm ± 0.2 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

System Material	Permittivity	Loss tangent
PMMA	2.9	0.028

(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°.)

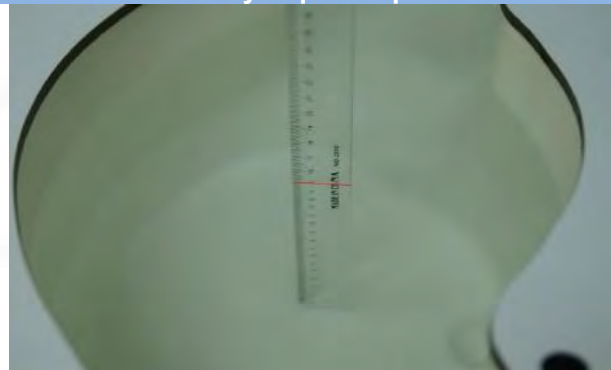
4.2.6 Simulating Liquid

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.

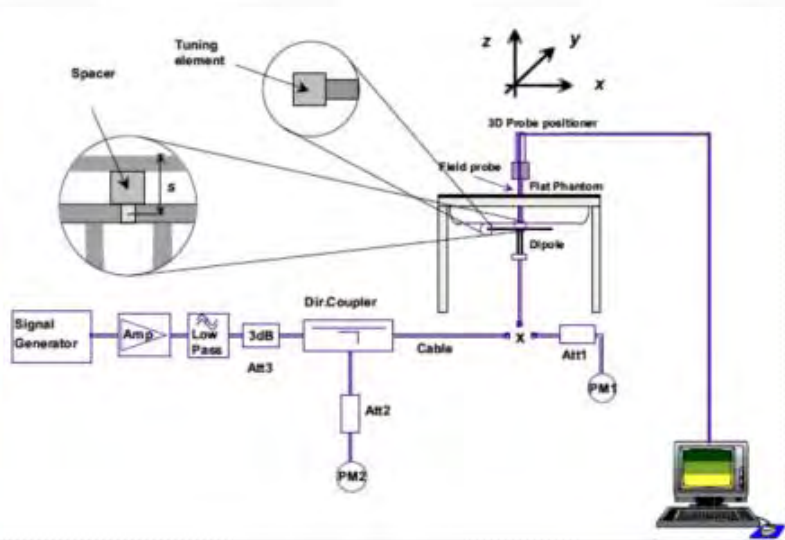
Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	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 the DUT 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 line, relative 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: the midpoint of the width w of the DUT at the level of the acoustic output (Point A in Figure 15), and the midpoint of the width w_t at the bottom of the DUT (Point B). The horizontal line is perpendicular to the vertical centerline, and passes through the centre of the acoustic output (Figure 15). The two lines intersect at Point A. Note that for many DUTs, Point A coincides with the centre of the acoustic output. However, the acoustic output could be located elsewhere on the horizontal line. Also note that the vertical centreline is not necessarily parallel to the front face of the DUT, especially for clamshell DUTs, 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 (virtual) extension of the line passing through points RE (right-ear ear reference point) and LE left-ear ear reference point) on the phantom (see Figure 16a) and Figure 16b)). The plane determined by the vertical centreline and the horizontal line of the DUT shall be parallel to the sagittal plane of the phantom.
- (e) Translate the DUT towards the phantom along the line passing through RE and LE until the DUT touches the ear (see Figure 16c)).
- (f) Rotate the DUT around the (virtual) LE-RE Line until the DUT vertical centreline is in the)reference plane(see Figure 16d)).
- (g) Rotate the DUT around its vertical centreline until the plane established by the DUT vertical centreline and horizontal line is parallel to the N-F line (see Annex G), and then translate the DUT towards the phantom along the LE-RE line until DUT Point A touches the 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 in contact with the pinna, rotate the DUT about the N-F line until any point on the DUT is in contact with a phantom point below the pinna (cheek) (see Figure 16f)). The physical angles of rotation shall be documented.
- (i) While keeping DUT Point A in contact with the ERP rotate the DUT around a line perpendicular to the plane established by the DUT vertical centreline and horizontal line and passing through DUT Point A, until the DUT vertical centreline is in the reference plane(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.

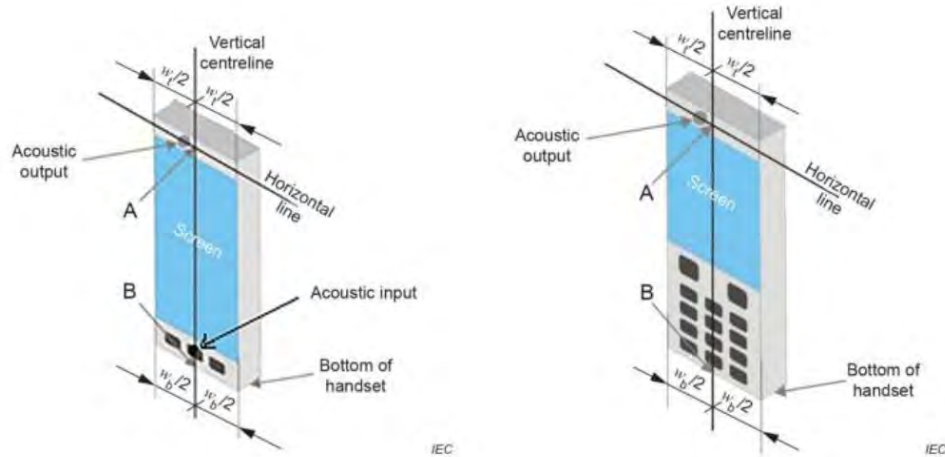
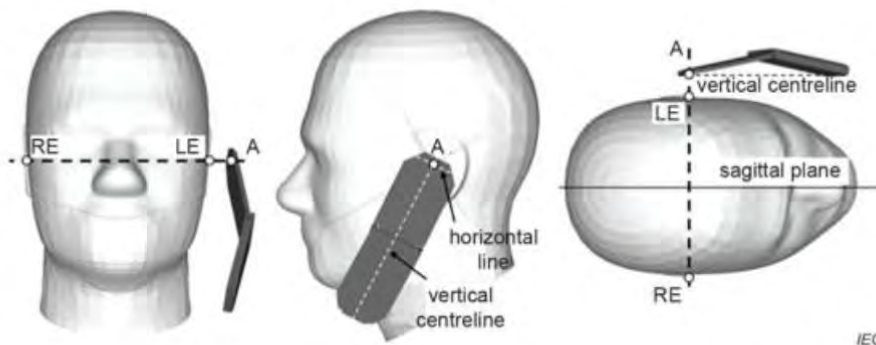


Figure 15 - Vertical and horizontal reference lines and reference points A and B on two example device types: a full touch-screen smart phone (left) and a DUT with a keypad (right)

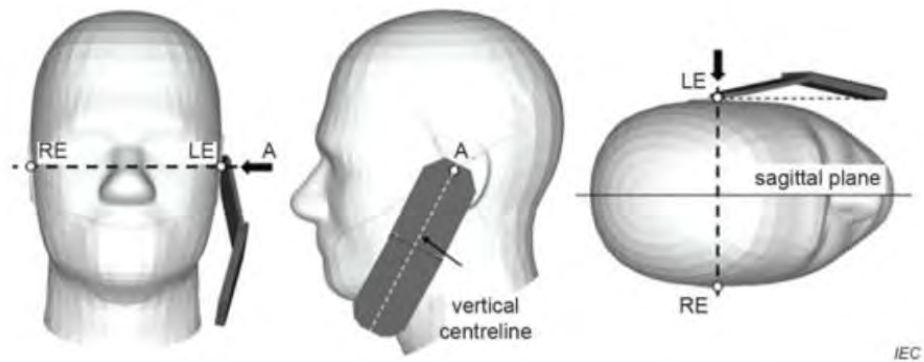


NOTE The reference points for the right-ear ear reference point (RE), left-ear ear reference point (LE), and mouth (M), which establish the reference plane for DUT positioning, are indicated. This device position shall be maintained for the sagittal phantom test set-up shown in Figure G.4.

a) Phone position 1 – cheek position

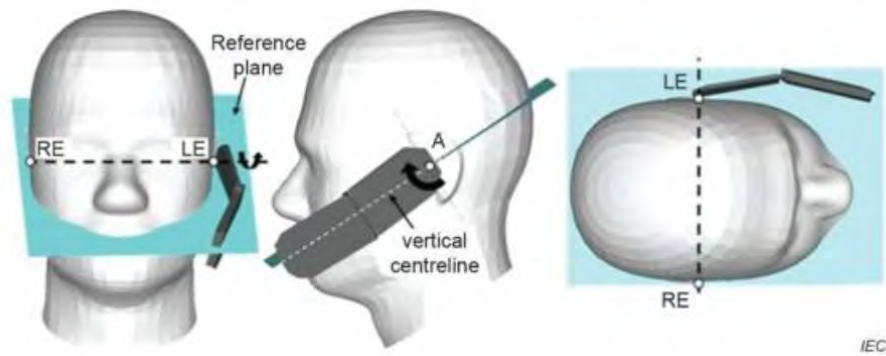


b) One possible DUT position against the head after applying 7.2.4.2.2 c)



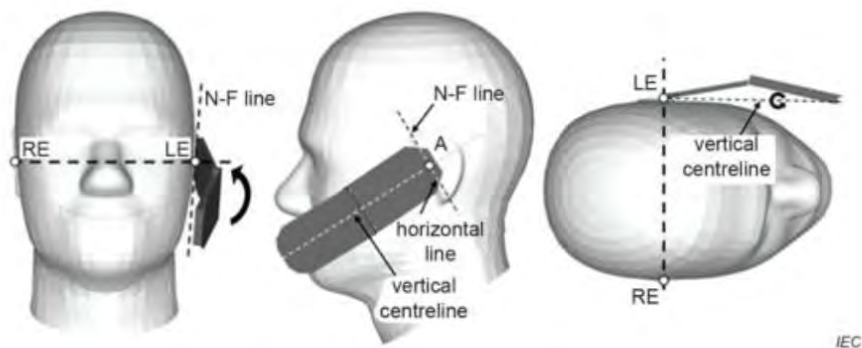
NOTE The black arrows show the direction of translation of the DUT for 7.2.4.2.2 d).

c) DUT position after applying 7.2.4.2.2 d)



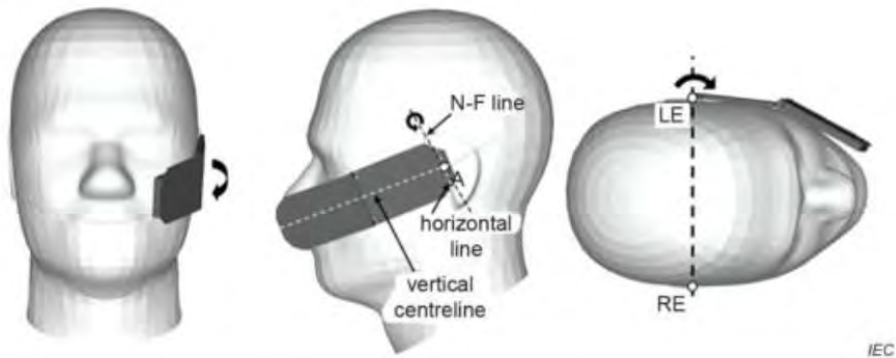
NOTE The curved black arrows show the direction of rotation of the DUT for 7.2.4.2.2 e).

d) DUT position after applying 7.2.4.2.2 e)



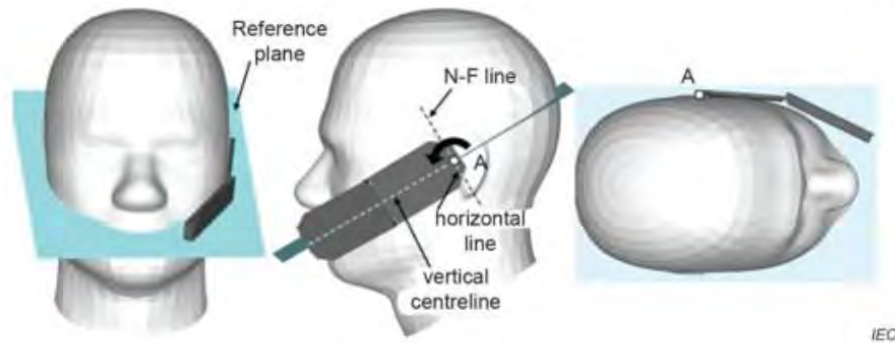
NOTE The curved black arrows show the direction of rotation of the DUT for 7.2.4.2.2 f).

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)(see Figure16).
- (b) While maintaining the orientation of the DUT, move the DUT away from the pinna along 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.

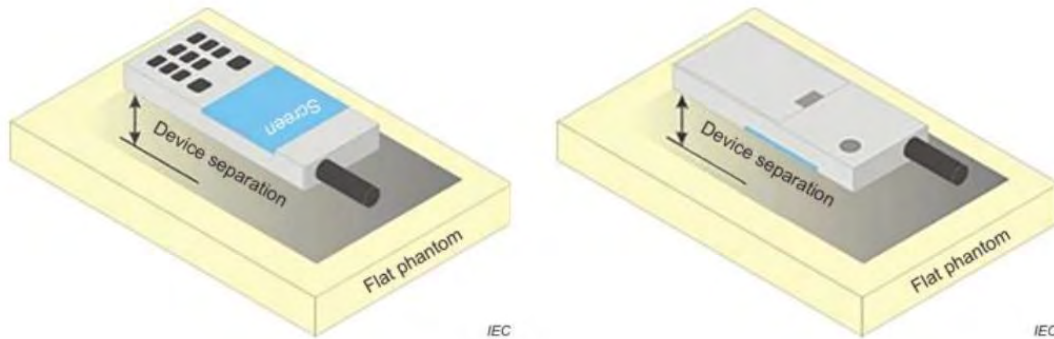
Figure 17 – Tilt position of the DUT on the left side of SAM

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.

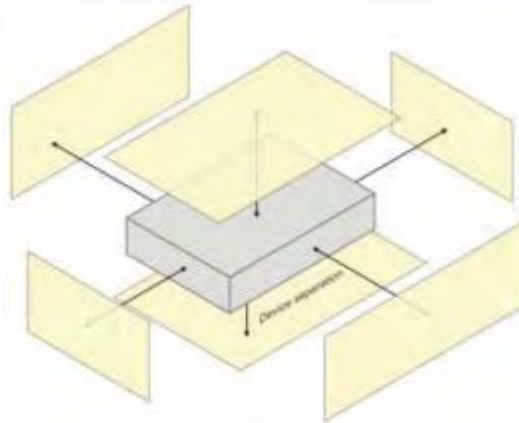
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

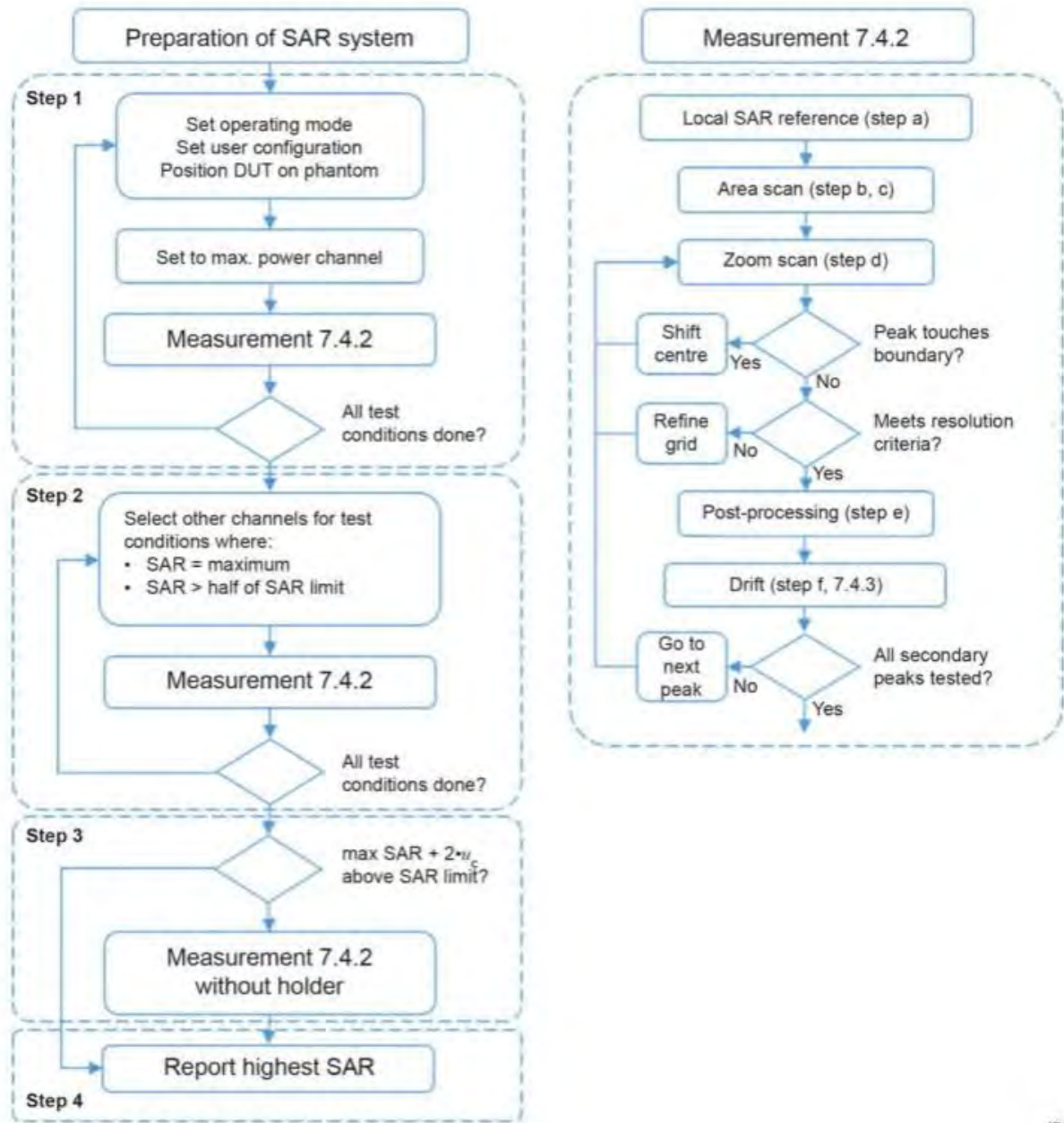
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed 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.

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		33.00	32.56	32.50	32.51	-9.03	23.53	23.47	23.48
GPRS (GMSK)	1Tx slot	33.00	32.57	32.50	32.49	-9.03	23.54	23.47	23.46
	2Tx slots	32.00	31.57	31.50	31.50	-6.02	25.55	25.48	25.48
	3Tx slots	30.00	29.52	29.44	29.43	-4.26	25.26	25.18	25.17
	4Tx slots	28.50	28.44	28.35	28.34	-3.01	25.43	25.34	25.33
EGPRS (8PSK)	1Tx slot	26.50	26.24	26.06	26.12	-9.03	17.21	17.03	17.09
	2Tx slots	25.50	24.91	24.98	25.03	-6.02	18.89	18.96	19.01
	3Tx slots	23.50	22.89	22.92	23.07	-4.26	18.63	18.66	18.81
	4Tx slots	22.00	21.85	21.80	21.84	-3.01	18.84	18.79	18.83
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		29.50	29.05	29.15	29.17	-9.03	20.02	20.12	20.14
GPRS (GMSK)	1Tx slot	29.50	29.05	29.10	29.08	-9.03	20.02	20.07	20.05
	2Tx slots	28.00	27.76	27.89	27.94	-6.02	21.74	21.87	21.92
	3Tx slots	26.00	25.42	25.60	25.67	-4.26	21.16	21.34	21.41
	4Tx slots	25.00	24.38	24.56	24.64	-3.01	21.37	21.55	21.63
EGPRS (8PSK)	1Tx slot	24.50	23.42	24.03	24.44	-9.03	14.39	15.00	15.41
	2Tx slots	24.00	22.76	23.25	23.77	-6.02	16.74	17.23	17.75
	3Tx slots	22.50	21.22	21.92	22.36	-4.26	16.96	17.66	18.10
	4Tx slots	21.50	20.27	20.94	21.46	-3.01	17.26	17.93	18.45

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		22.00	21.50	21.53	21.38
HSDPA	Subtest-1	19.50	19.24	19.25	19.05
	Subtest-2	19.50	19.24	19.29	19.07
	Subtest-3	19.50	19.25	19.25	19.08
	Subtest-4	19.50	19.26	19.26	19.05
HSUPA	Subtest-1	17.50	17.31	17.35	17.15
	Subtest-2	17.50	17.28	17.31	17.14
	Subtest-3	17.50	17.27	17.14	16.96
	Subtest-4	17.50	16.78	17.15	17.14
	Subtest-5	17.50	17.26	17.15	16.96
Mode		Maximum Tune-up(dBm)	WCDMA Band IV		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
RMC 12.2K		21.50	20.93	21.22	21.13
HSDPA	Subtest-1	19.00	18.67	18.94	18.84
	Subtest-2	19.00	18.70	18.96	18.83
	Subtest-3	19.00	18.67	18.95	18.85
	Subtest-4	19.00	18.65	18.97	18.87
HSUPA	Subtest-1	17.00	16.64	16.92	16.79
	Subtest-2	17.00	16.62	16.68	16.31
	Subtest-3	17.00	16.64	16.89	16.80
	Subtest-4	17.00	16.38	16.35	16.61
	Subtest-5	17.00	16.60	16.37	16.61
Mode		Maximum Tune-up(dBm)	WCDMA Band V		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
RMC 12.2K		21.50	21.18	21.29	21.17
HSDPA	Subtest-1	19.50	19.00	19.13	18.95
	Subtest-2	19.50	18.98	19.15	18.98
	Subtest-3	19.50	19.02	19.14	18.96
	Subtest-4	19.50	19.00	19.11	18.95
HSUPA	Subtest-1	17.50	16.98	17.13	17.00
	Subtest-2	17.00	16.51	16.66	16.99
	Subtest-3	17.00	16.99	16.58	16.77
	Subtest-4	17.50	16.49	17.12	16.51
	Subtest-5	17.00	17.00	16.61	16.98

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	22.00	21.93	21.83	21.69	
			2	22.50	22.02	21.93	21.77	
			5	22.00	21.93	21.79	21.66	
		3	0	22.50	22.01	21.92	21.69	
			2	22.50	22.02	21.94	21.76	
			3	22.00	21.95	21.90	21.73	
	16QAM	6	0	21.00	20.96	20.89	20.71	
			1	0	21.50	21.03	20.83	20.64
				2	21.50	21.14	20.89	20.77
		5		21.50	21.04	20.79	20.70	
		3	0	21.50	20.95	21.05	20.74	
			2	21.50	20.95	21.10	20.75	
3	21.50		20.94	21.03	20.71			
6	0	20.50	20.01	19.96	19.64			
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18615	18900	19185
						1851.5MHz	1880.0MHz	1908.5MHz
3MHz	QPSK	1	0	22.50	22.06	21.93	21.78	
			7	22.50	22.16	22.07	21.90	
			14	22.50	22.04	21.92	21.74	
		8	0	21.50	21.01	20.96	20.79	
			4	21.50	21.03	20.98	20.83	
			7	21.00	21.00	20.94	20.77	
	15	0	21.00	20.98	20.94	20.81		
	16QAM	1	0	21.50	21.02	21.11	21.31	
			7	21.50	21.14	21.23	21.41	
			14	21.50	20.99	21.10	21.23	
		8	0	20.50	20.12	20.00	20.03	
			4	20.50	20.14	20.02	20.04	
			7	20.50	20.09	19.97	19.99	
		15	0	20.50	20.08	19.95	19.91	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18625	18900
						1852.5MHz	1880.0MHz	1907.5MHz
5MHz	QPSK	1	0	22.00	21.88	21.82	21.64	
			13	22.00	22.00	21.92	21.78	
			24	22.00	21.84	21.84	21.64	
		12	0	21.00	20.87	20.89	20.75	
			6	21.00	20.97	20.94	20.80	
			13	21.00	20.91	20.92	20.72	
	25	0	21.00	20.89	20.92	20.71		
	16QAM	1	0	21.50	20.93	21.07	20.53	
			13	21.50	21.04	21.17	20.65	
			24	21.50	20.91	21.06	20.49	
		12	0	20.00	19.90	19.95	19.79	
			6	20.50	19.96	20.02	19.82	
			13	20.00	19.92	19.96	19.73	
		25	0	20.00	19.93	19.98	19.82	

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	22.00	21.93	21.88	21.74	
			25	22.50	22.16	22.07	21.98	
			49	22.00	21.91	21.85	21.67	
		25	0	21.00	20.91	20.94	20.86	
			13	21.50	20.98	21.01	20.85	
			25	21.00	20.92	20.95	20.80	
	16QAM	50	0	21.00	20.94	20.97	20.84	
			1	0	21.50	20.89	21.04	21.28
				25	21.50	21.10	21.26	21.48
		49		21.50	20.86	21.03	21.20	
		25	0	20.50	20.03	20.04	19.99	
			13	20.50	20.09	20.09	19.97	
			25	20.50	20.04	20.01	19.88	
			50	0	20.50	19.99	20.04	19.91
			15MHz	QPSK	1	0	22.00	21.68
38	22.00					21.95	21.92	21.79
74	22.00	21.76				21.69	21.52	
36	0	21.00	20.85		20.90	20.84		
	18	21.00	20.96		20.95	20.83		
	39	21.00	20.91		20.91	20.78		
16QAM	75	0	21.00		20.89	20.95	20.77	
		1	0		21.50	21.06	20.90	21.18
			38		21.50	21.27	21.09	21.38
	74		21.50	21.09	20.87	21.07		
	36	0	20.00	19.83	19.94	19.88		
		18	20.50	19.94	20.00	19.90		
39		20.00	19.88	19.92	19.79			
20MHz	QPSK	1	0	22.00	21.56	21.63	21.55	
			50	22.50	22.05	22.07	21.97	
			99	22.00	21.57	21.57	21.41	
50		0	21.00	20.86	20.90	20.88		
		25	21.00	20.92	20.95	20.84		
		50	21.00	20.86	20.83	20.75		
16QAM		100	0	21.00	20.87	20.88	20.84	
			1	0	21.50	21.09	20.82	20.81
				50	22.00	21.58	21.27	21.26
	99	21.50		21.12	20.77	20.68		
	50	0	20.00	19.90	19.95	19.93		
		25	20.00	19.95	19.98	19.89		
50		20.00	19.90	19.88	19.81			
20MHz	100	0	20.00	19.94	19.94	19.89		

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	21.50	21.15	21.13	21.10	
			2	21.50	21.23	21.20	21.23	
			5	21.50	21.10	21.06	21.08	
		3	0	21.50	21.27	21.27	21.16	
			2	21.50	21.24	21.30	21.20	
			3	21.50	21.18	21.23	21.20	
	16QAM	6	0	20.50	20.23	20.25	20.21	
			1	0	20.50	20.35	20.24	20.17
				2	20.50	20.49	20.32	20.32
		5		20.50	20.35	20.19	20.21	
		3	0	21.00	20.27	20.56	20.31	
			2	21.00	20.29	20.58	20.30	
3	21.00		20.34	20.57	20.30			
6	0	19.50	19.22	19.30	19.16			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175	20385	
					1711.5MHz	1732.5MHz	1753.5MHz	
3MHz	QPSK	1	0	21.28	21.28	21.25	21.23	
			7	21.40	21.40	21.39	21.32	
			14	21.27	21.27	21.22	21.18	
		8	0	20.28	20.28	20.33	20.30	
			4	20.34	20.34	20.33	20.32	
			7	20.27	20.27	20.29	20.27	
	15	0	20.26	20.26	20.33	20.29		
	16QAM	1	0	20.35	20.35	20.52	20.81	
			7	20.47	20.47	20.66	20.97	
			14	20.30	20.30	20.53	20.75	
		8	0	19.37	19.37	19.35	19.47	
			4	19.39	19.39	19.39	19.51	
			7	19.38	19.38	19.32	19.43	
		15	0	19.35	19.35	19.34	19.38	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19976	20175
						1712.5MHz	1732.5MHz	1752.5MHz
5MHz	QPSK	1	0	21.50	21.05	21.05	21.01	
			13	21.50	21.19	21.19	21.14	
			24	21.50	21.08	21.04	20.96	
		12	0	20.50	20.13	20.18	20.18	
			6	20.50	20.22	20.27	20.21	
			13	20.50	20.18	20.19	20.16	
	25	0	20.50	20.14	20.23	20.15		
	16QAM	1	0	20.50	20.17	20.47	19.94	
			13	21.00	20.36	20.55	20.06	
			24	20.50	20.24	20.40	19.90	
		12	0	19.50	19.12	19.25	19.12	
			6	19.50	19.21	19.33	19.21	
			13	19.50	19.17	19.24	19.16	
		25	0	19.50	19.19	19.25	19.21	

LTE-FDD Band 4				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20000	20175	20350
					1715.0MHz	1732.5MHz	1750.0MHz
10MHz	QPSK	1	0	21.50	21.09	21.09	21.02
			25	21.50	21.40	21.26	21.30
			49	21.50	21.14	21.05	21.01
		25	0	20.50	20.21	20.29	20.20
			13	20.50	20.31	20.31	20.26
			25	20.50	20.32	20.31	20.23
	16QAM	1	0	21.00	20.16	20.38	20.65
			25	21.00	20.47	20.60	20.89
			49	21.00	20.23	20.34	20.61
		25	0	19.50	19.32	19.36	19.28
			13	19.50	19.44	19.37	19.31
			25	19.50	19.42	19.36	19.29
50	0	19.50	19.33	19.36	19.24		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20025	20175	20325
					1717.5MHz	1732.5MHz	1747.5MHz
15MHz	QPSK	1	0	21.00	20.94	20.92	20.89
			38	21.50	21.19	21.13	21.11
			74	21.00	20.96	20.93	20.86
		36	0	20.50	20.14	20.10	20.14
			18	20.50	20.25	20.20	20.25
			39	20.50	20.21	20.20	20.19
	75	0	20.50	20.14	20.17	20.18	
	16QAM	1	0	21.00	20.40	20.15	20.55
			38	21.00	20.69	20.41	20.71
			74	21.00	20.50	20.20	20.51
		36	0	19.50	19.13	19.16	19.16
			18	19.50	19.26	19.25	19.22
39			19.50	19.15	19.22	19.21	
75	0	19.50	19.14	19.22	19.18		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175	20300
					1720.0MHz	1732.5MHz	1745.0MHz
20MHz	QPSK	1	0	21.00	20.78	20.84	20.81
			50	21.50	21.31	21.29	21.25
			99	21.00	20.84	20.81	20.72
		50	0	20.50	20.21	20.22	20.13
			25	20.50	20.25	20.25	20.18
			50	20.50	20.17	20.25	20.18
	100	0	20.50	20.25	20.26	20.16	
	16QAM	1	0	20.50	20.39	20.12	20.19
			50	21.00	20.93	20.62	20.60
			99	21.00	20.51	20.06	20.08
		50	0	19.50	19.26	19.27	19.14
			25	19.50	19.31	19.28	19.20
50			19.50	19.23	19.27	19.17	
100	0	19.50	19.28	19.26	19.20		

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	22.00	21.87	21.80	21.61	
			2	22.00	21.97	21.89	21.74	
			5	22.00	21.85	21.76	21.62	
		3	0	22.00	21.93	21.82	21.70	
			2	22.00	21.99	21.84	21.73	
			3	22.00	21.92	21.81	21.68	
	16QAM	6	0	21.00	20.92	20.75	20.72	
			1	0	21.00	20.96	20.75	20.71
				2	21.50	21.09	20.86	20.88
		5		21.00	20.93	20.78	20.72	
		3	0	21.00	20.84	20.85	20.58	
			2	21.00	20.88	20.84	20.62	
3	21.00		20.82	20.79	20.62			
6	0	20.00	19.96	19.75	19.75			
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20415	20525	20635
						825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	22.50	22.12	21.91	21.81	
			7	22.50	22.19	22.02	21.91	
			14	22.50	22.09	21.83	21.76	
		8	0	21.50	21.04	20.89	20.81	
			4	21.50	21.06	20.91	20.85	
			7	21.50	21.04	20.84	20.77	
	15	0	21.50	21.02	20.88	20.77		
	16QAM	1	0	21.50	21.06	21.05	21.22	
			7	21.50	21.17	21.15	21.33	
			14	21.50	21.00	20.99	21.21	
		8	0	20.50	20.11	19.90	19.96	
			4	20.50	20.14	19.95	20.00	
			7	20.50	20.08	19.87	19.96	
		15	0	20.50	20.08	19.87	19.87	

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	22.00	21.90	21.76	21.67	
			13	22.00	22.00	21.84	21.74	
			24	22.00	21.81	21.67	21.66	
		12	0	21.00	20.91	20.79	20.75	
			6	21.00	20.96	20.84	20.75	
			13	21.00	20.87	20.75	20.64	
		25	0	21.00	20.88	20.78	20.65	
		16QAM	1	0	21.00	20.94	20.97	20.55
				13	21.50	21.03	21.10	20.59
	24			21.00	20.88	20.93	20.47	
	12		0	20.00	19.88	19.85	19.71	
			6	20.00	19.94	19.90	19.77	
			13	20.00	19.86	19.80	19.63	
	25	0	20.00	19.92	19.81	19.72		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600	
					829.0MHz	836.5MHz	844.0MHz	
10MHz	QPSK	1	0	22.00	21.98	21.79	21.75	
			25	22.50	22.15	22.03	21.96	
			49	22.00	21.83	21.74	21.68	
		25	0	21.00	20.98	20.89	20.85	
			13	21.00	20.95	20.87	20.79	
			25	21.00	20.87	20.84	20.62	
	50	0	21.00	20.92	20.88	20.72		
		16QAM	1	0	21.50	20.90	20.92	21.28
				25	21.50	21.11	21.16	21.42
	49			21.50	20.80	20.91	21.13	
	16QAM	25	0	20.50	20.08	19.96	19.91	
			13	20.50	20.05	19.92	19.86	
			25	20.00	20.00	19.91	19.72	
		50	0	20.00	19.99	19.90	19.77	

Band 7

LTE-FDD Band 7				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		20775	21100	21425	
				2502.5MHz	2535.0MHz	2567.5MHz		
5MHz	QPSK	1	0	23.50	23.30	22.49	22.18	
			13	23.50	23.36	22.62	22.30	
			24	23.50	23.25	22.45	22.18	
		12	0	22.50	22.32	21.55	21.17	
			6	22.50	22.37	21.62	21.23	
			13	22.00	21.82	21.49	21.13	
	25	0	22.00	21.81	21.49	21.12		
		16QAM	1	0	22.00	21.97	21.28	21.18
				13	22.50	22.03	21.40	21.28
	24			22.00	21.89	21.26	21.17	
	12		0	21.00	20.78	20.51	20.12	
			6	21.00	20.89	20.58	20.16	
			13	21.00	20.79	20.47	20.08	
	25	0	21.00	20.80	20.53	20.13		
		10MHz	QPSK	1	0	23.50	23.41	22.62
25					23.50	23.13	22.55	22.54
49	23.00				22.90	22.41	22.28	
25	0			22.00	21.92	21.70	21.33	
	13			22.00	21.90	21.64	21.27	
	25			22.00	21.88	21.58	21.19	
50	0		22.00	21.90	21.64	21.24		
	16QAM		1	0	22.00	21.85	21.69	21.66
				25	22.50	22.03	21.91	21.84
49				22.00	21.78	21.62	21.59	
25			0	21.00	20.98	20.68	20.35	
			13	21.00	20.95	20.62	20.30	
			25	21.00	20.93	20.58	20.23	
50	0		21.00	20.91	20.62	20.25		

LTE-FDD Band 7				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		20825	21100	21375		
					2507.5MHz	2535.0MHz	2562.5MHz		
15MHz	QPSK	1	0	23.50	23.12	22.49	22.19		
			38	23.00	22.90	22.53	22.34		
			74	23.00	22.64	22.37	22.12		
		38	0	22.00	21.95	21.77	21.39		
			18	22.00	22.00	21.73	21.40		
			37	22.00	21.90	21.63	21.28		
		75	0	22.00	21.93	21.65	21.32		
			16QAM	1	0	22.00	21.96	21.56	21.56
					38	22.50	22.09	21.73	21.70
	74	22.00			21.85	21.49	21.43		
	38	38	0	21.00	20.85	20.66	20.34		
			18	21.00	20.88	20.62	20.31		
			37	21.00	20.79	20.52	20.18		
	75	0	21.00	20.85	20.61	20.28			
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20850	21100	21350
					2510.0MHz	2535.0MHz	2560.0MHz		
20MHz	QPSK	1	0	23.00	22.57	22.38	22.11		
			50	23.00	22.98	22.58	22.49		
			99	22.50	22.43	22.22	21.99		
		50	0	22.00	21.79	21.67	21.35		
			25	22.00	21.82	21.60	21.28		
			50	22.00	21.74	21.48	21.13		
		100	0	22.00	21.80	21.57	21.27		
			16QAM	1	0	22.00	21.96	21.45	21.32
					50	22.50	22.38	21.80	21.68
	99	22.00			21.85	21.30	21.10		
	50	50	0	21.00	20.77	20.65	20.35		
			25	21.00	20.79	20.57	20.25		
			50	21.00	20.69	20.48	20.12		
	100	0	21.00	20.79	20.55	20.26			

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	21.77	21.66	21.52	
			2	22.00	21.85	21.41	21.40	
			5	22.00	21.76	21.27	21.31	
		3	0	22.00	21.77	21.31	21.41	
			2	22.00	21.78	21.34	21.42	
			3	22.00	21.80	21.32	21.38	
	16QAM	6	0	21.00	20.82	20.37	20.46	
			1	0	21.00	20.73	20.44	20.35
				2	21.00	20.84	20.57	20.45
		5		21.00	20.80	20.44	20.35	
		3	0	21.00	20.58	20.32	20.62	
			2	21.00	20.43	20.36	20.65	
3	21.00		20.35	20.37	20.61			
6	0	19.50	19.32	19.40	19.47			

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095	23165	
					700.5MHz	707.5MHz	714.5MHz	
3MHz	QPSK	1	0	22.00	21.90	21.88	21.92	
			7	22.50	22.03	21.94	21.82	
			14	22.00	21.89	21.72	21.44	
		8	0	21.00	20.86	20.58	20.52	
			4	21.00	20.91	20.62	20.59	
			7	21.00	20.89	20.43	20.55	
	15	0	21.00	20.85	20.48	20.59		
	16QAM	1	0	21.50	20.85	20.71	21.01	
			7	21.50	20.98	20.87	21.19	
			14	21.50	20.66	20.60	21.03	
		8	0	20.00	19.85	19.49	19.65	
			4	20.00	19.75	19.65	19.78	
			7	20.00	19.88	19.59	19.85	
		15	0	20.00	19.83	19.62	19.89	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095
701.5MHz							707.5MHz	713.5MHz
5MHz	QPSK	1	0	22.00	21.71	21.72	21.75	
			13	22.00	21.85	21.83	21.86	
			24	22.00	21.72	21.74	21.62	
		12	0	21.00	20.68	20.85	20.52	
			6	21.00	20.87	20.88	20.77	
			13	21.00	20.82	20.81	20.67	
	25	0	21.00	20.75	20.82	20.76		
	16QAM	1	0	21.00	20.78	20.96	20.53	
			13	21.50	20.96	21.07	20.71	
			24	21.00	20.85	20.85	20.46	
		12	0	20.00	19.61	19.78	19.68	
			6	20.00	19.81	19.75	19.83	
			13	20.00	19.77	19.89	19.73	
		25	0	22.00	19.75	19.82	19.91	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23060	23095
704.0MHz							707.5MHz	711.0MHz
10MHz	QPSK	1	0	22.00	21.75	21.68	21.77	
			25	22.50	22.03	22.01	22.04	
			49	22.00	21.84	21.83	21.88	
		25	0	21.00	20.75	20.99	20.87	
			13	21.00	20.88	20.93	20.95	
			25	21.00	20.82	20.96	20.89	
	50	0	21.00	20.79	20.96	20.89		
	16QAM	1	0	21.50	20.72	20.88	21.30	
			25	21.50	21.03	21.21	21.43	
			49	21.50	20.84	21.03	21.13	
		25	0	20.00	19.77	19.99	19.65	
			13	20.00	19.95	19.96	19.95	
			25	20.00	19.89	19.99	19.87	
		50	0	20.00	19.79	19.94	19.87	

Band 13

LTE-FDD Band 13				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		23205	23230	23255	
					779.5MHz	782.0MHz	784.5MHz	
5MHz	QPSK	1	0	22.00	21.55	21.48	21.44	
			13	22.00	21.63	21.60	21.55	
			24	21.50	21.48	21.44	21.45	
		12	0	21.00	20.53	20.54	20.50	
			6	21.00	20.58	20.58	20.54	
			13	21.00	20.50	20.53	20.52	
	25	0	21.00	20.49	20.53	20.52		
	16QAM	1	0	21.00	20.71	20.34	20.55	
			13	21.00	20.89	20.46	20.62	
			24	21.00	20.73	20.31	20.54	
		12	0	20.00	19.57	19.59	19.48	
			6	20.00	19.66	19.61	19.54	
			13	20.00	19.58	19.53	19.53	
		25	0	20.00	19.53	19.60	19.61	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23230	
						782.0MHz		
10MHz	QPSK	1	0	22.00	21.55			
			25	22.00	21.75			
			49	22.00	21.54			
		25	0	21.00	20.65			
			13	21.00	20.64			
			25	21.00	20.65			
	50	0	21.00	20.66				
	16QAM	1	0	21.50	21.02			
			25	21.50	21.30			
			49	21.50	21.03			
		25	0	20.00	19.71			
			13	20.00	19.73			
			25	20.00	19.75			
		50	0	20.00	19.72			

Band 17

LTE-FDD Band 17				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23755	23790	23825
					706.5MHz	710MHz	713.5MHz
5MHz	QPSK	1	0	22.00	21.83	21.78	21.76
			13	22.00	21.94	21.90	21.94
			24	22.00	21.85	21.84	21.81
		12	0	21.00	20.97	20.82	20.90
			6	21.00	20.96	20.98	20.98
			13	21.00	20.89	20.92	20.85
	25	0	21.00	20.90	20.88	20.88	
	16QAM	1	0	21.50	20.66	20.91	21.07
			13	21.50	20.77	21.03	21.21
			24	21.50	20.70	20.94	21.08
		12	0	20.00	19.83	19.75	19.92
			6	20.50	19.89	19.93	20.00
			13	20.00	19.83	19.87	19.86
		25	0	20.00	19.91	19.88	19.87

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23780	23790	23800
					709MHz	710MHz	711MHz
10MHz	QPSK	1	0	22.00	21.82	21.80	21.77
			25	22.50	22.13	22.02	22.06
			49	22.00	21.91	21.87	21.89
		25	0	21.00	20.98	20.92	20.92
			13	21.50	21.01	20.97	20.99
			25	21.00	20.98	20.96	20.93
	50	0	21.00	20.95	20.93	20.88	
	16QAM	1	0	21.50	20.81	20.95	21.32
			25	22.00	21.04	21.27	21.63
			49	21.50	20.92	21.05	21.41
		25	0	20.50	20.03	19.90	19.93
			13	20.50	20.05	19.98	20.02
			25	20.50	20.08	19.98	19.95
		50	0	20.00	19.98	19.91	19.92

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	22.00	21.61	21.16	20.87	
			2	22.00	21.70	21.28	20.97	
			5	22.00	21.58	21.16	20.88	
		3	0	22.00	21.73	21.25	21.01	
			2	22.00	21.75	21.20	21.03	
			3	22.00	21.70	21.25	20.98	
	6	0	21.00	20.63	20.19	19.98		
	16QAM	1	0	21.00	20.61	20.16	20.06	
			2	20.50	20.39	20.28	20.18	
			5	20.50	20.17	20.21	20.08	
		3	0	20.50	20.40	20.28	19.99	
			2	21.00	20.52	20.30	20.02	
			3	20.50	20.43	20.29	20.01	
		6	0	19.50	19.24	19.20	19.10	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26055	26365
						1851.5MHz	1882.5MHz	1913.5MHz
3MHz	QPSK	1	0	22.00	21.67	21.35	21.09	
			7	21.50	21.48	21.49	21.26	
			14	21.50	21.33	21.32	21.04	
		8	0	20.50	20.38	20.38	20.13	
			4	20.50	20.38	20.40	20.15	
			7	20.50	20.35	20.34	20.11	
	15	0	20.50	20.35	20.34	20.14		
	16QAM	1	0	21.00	20.46	20.52	20.69	
			7	21.00	20.44	20.66	20.78	
			14	21.00	20.38	20.50	20.55	
		8	0	19.50	19.43	19.39	19.35	
			4	19.50	19.47	19.42	19.39	
			7	19.50	19.41	19.39	19.34	
		15	0	19.50	19.39	19.38	19.25	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26065	26365	26665
					1852.5MHz	1882.5MHz	1912.5MHz
5MHz	QPSK	1	0	21.50	21.20	21.25	21.06
			13	21.50	21.29	21.36	21.14
			24	21.50	21.19	21.22	20.95
		12	0	20.50	20.26	20.29	20.14
			6	20.50	20.34	20.36	20.13
			13	20.50	20.32	20.28	20.06
	25	0	20.50	20.26	20.30	20.06	
	16QAM	1	0	20.50	20.32	20.49	19.92
			13	21.00	20.48	20.61	20.02
			24	21.00	20.33	20.50	19.81
		12	0	19.50	19.25	19.40	19.18
			6	19.50	19.29	19.46	19.18
			13	19.50	19.27	19.39	19.07
		25	0	19.50	19.30	19.36	19.15

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	21.50	21.24	21.29	21.09	
			25	22.00	21.50	21.49	21.30	
			49	21.50	21.24	21.27	20.97	
		25	0	20.50	20.33	20.38	20.25	
			13	20.50	20.41	20.41	20.20	
			25	20.50	20.32	20.33	20.06	
	50	0	20.50	20.34	20.36	20.15		
	16QAM	1	0	21.00	20.29	20.42	20.69	
			25	21.00	20.55	20.69	20.86	
			49	21.00	20.30	20.44	20.51	
		25	0	19.50	19.40	19.47	19.35	
			13	19.50	19.47	19.48	19.31	
			25	19.50	19.44	19.41	19.18	
		50	0	19.50	19.37	19.43	19.21	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26115	26365
						1857.5MHz	1882.5MHz	1907.5MHz
15MHz	QPSK	1	0	21.06	21.06	21.16	20.98	
			38	21.30	21.30	21.36	21.16	
			74	21.09	21.09	21.13	20.83	
		36	0	20.26	20.26	20.37	20.18	
			18	20.34	20.34	20.39	20.19	
			39	20.28	20.28	20.33	20.06	
	75	0	20.28	20.28	20.34	20.15		
	16QAM	1	0	20.50	20.50	20.33	20.56	
			38	20.67	20.67	20.54	20.73	
			74	20.50	20.50	20.31	20.37	
		36	0	19.22	19.22	19.41	19.27	
			18	19.28	19.28	19.42	19.25	
			39	19.24	19.24	19.33	19.10	
		75	0	19.23	19.23	19.36	19.22	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26140	26365	26590
					1860.0MHz	1882.5MHz	1905.0MHz
20MHz	QPSK	1	0	21.50	20.95	21.02	20.28
			50	21.50	21.41	21.48	20.92
			99	21.50	20.96	20.97	21.38
		50	0	21.00	20.31	20.33	20.76
			25	20.50	20.35	20.35	20.22
			50	20.50	20.30	20.24	20.21
	100	0	21.50	20.27	21.02	20.04	
	16QAM	1	0	21.00	20.51	20.23	20.23
			50	21.50	21.03	20.70	20.70
			99	21.00	20.56	20.23	20.02
		50	0	19.50	19.26	19.40	19.29
			25	19.50	19.34	19.38	19.27
			50	19.50	19.30	19.30	19.13
		100	0	19.50	19.30	19.34	19.26

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	22.00	21.90	20.92	21.81
			2	22.50	22.03	20.82	21.86
			5	22.00	21.90	20.62	21.76
		3	0	22.00	21.93	21.96	21.77
			2	22.00	21.95	21.99	21.94
			3	22.50	22.04	21.93	21.85
	6	0	21.50	21.00	20.90	20.83	
	16QAM	1	0	21.00	20.93	20.94	20.77
			2	21.50	21.21	21.09	20.57
			5	21.00	20.97	20.87	20.25
		3	0	21.50	21.06	21.04	20.27
			2	21.50	21.03	20.88	20.36
			3	21.50	21.02	20.93	20.48
		6	0	21.50	21.00	20.01	19.93
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26705	26740
					815.5MHz	819.0MHz	822.5MHz
3MHz	QPSK	1	0	22.50	22.13	21.49	21.41
			7	22.50	22.16	21.62	21.60
			14	22.00	21.66	21.39	21.45
		8	0	21.00	20.51	20.45	20.42
			4	21.00	20.55	20.48	20.48
			7	21.00	20.50	20.43	20.44
	15	0	21.00	20.50	20.46	20.41	
	16QAM	1	0	21.50	21.02	20.50	20.62
			7	21.50	20.81	21.14	20.60
			14	21.00	20.49	20.58	20.91
		8	0	20.00	19.68	19.55	19.48
			4	20.00	19.57	19.69	19.60
			7	20.00	19.58	19.48	19.65
		15	0	20.00	19.58	19.54	19.44

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	22.00	21.88	21.33	21.32	
			13	22.00	21.55	21.44	21.42	
			24	21.50	21.34	21.30	21.27	
		12	0	20.50	20.43	20.34	20.34	
			6	20.50	20.48	20.44	20.41	
			13	20.50	20.43	20.38	20.34	
	25	0	20.50	20.43	20.39	20.32		
	16QAM	1	0	21.00	20.23	20.42	20.55	
			13	21.00	20.74	20.33	20.53	
			24	21.00	20.45	20.54	20.12	
		12	0	19.50	19.47	19.39	19.41	
			6	20.00	19.54	19.48	19.46	
			13	19.50	19.42	19.49	19.37	
		25	0	20.00	19.50	19.46	19.36	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26740	
10MHz		QPSK	1	0	22.00	21.85		
	25			22.50	22.07			
	49			22.00	21.84			
	25		0	21.00	20.95			
			13	21.00	20.94			
			25	21.00	20.92			
	50	0	21.00	20.94				
	16QAM	1	0	21.50	21.01			
			25	21.50	21.13			
			49	21.50	21.32			
		25	0	20.00	20.00			
			13	20.50	20.10			
			25	20.50	20.01			
		50	0	20.00	20.00			

Band 26 Part 22

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	22.00	21.85	20.72	21.57
			2	22.00	21.90	20.67	21.71
			5	22.00	21.75	21.68	21.51
		3	0	22.00	21.82	21.80	21.63
			2	22.00	21.85	21.76	21.64
			3	22.00	21.91	21.75	21.61
	6	0	21.00	20.89	20.68	20.57	
	16QAM	1	0	21.00	20.86	20.56	20.26
			2	21.00	20.91	20.71	20.30
			5	21.00	20.88	20.77	20.06
		3	0	21.00	20.93	20.74	20.23
			2	21.00	20.94	20.82	20.06
			3	21.00	20.92	20.88	20.65
		6	0	21.00	20.88	19.77	19.64

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26805	26915	27025
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	22.00	21.93	21.26	21.28
			7	22.50	22.09	21.39	21.33
			14	21.50	21.46	21.22	21.18
		8	0	21.00	20.68	20.23	20.25
			4	21.00	20.56	20.27	20.23
			7	20.50	20.40	20.21	20.19
	15	0	20.50	20.40	20.24	20.18	
	16QAM	1	0	21.00	20.43	20.43	20.70
			7	21.50	21.04	20.45	20.50
			14	21.00	20.50	20.75	20.17
		8	0	19.50	19.49	19.29	19.42
			4	20.00	19.63	19.41	19.26
			7	19.50	19.42	19.46	19.27
		15	0	19.50	19.46	19.28	19.28

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	21.50	21.48	21.12	21.03	
			13	21.50	21.38	21.24	21.20	
			24	21.50	21.22	21.10	21.04	
		12	0	20.50	20.28	20.21	20.16	
			6	20.50	20.38	20.24	20.20	
			13	20.50	20.23	20.14	20.05	
	25	0	20.50	20.29	20.19	20.08		
	16QAM	1	0	20.50	20.37	20.36	19.89	
			13	20.50	20.21	20.35	20.39	
			24	20.50	20.45	19.95	20.10	
		12	0	19.50	19.31	19.26	19.12	
			6	19.50	19.40	19.29	19.27	
			13	19.50	19.33	19.22	19.07	
		25	0	19.50	19.38	19.23	19.17	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26840	26915
						829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	22.00	21.79	21.71	21.66	
			25	22.00	21.97	21.91	21.87	
			49	22.00	21.67	21.60	21.64	
		25	0	21.00	20.84	20.80	20.66	
			13	21.00	20.82	20.76	20.72	
			25	21.00	20.77	20.70	20.55	
	50	0	21.00	20.78	20.77	20.60		
	16QAM	1	0	21.50	20.93	21.23	20.63	
			25	21.50	21.11	21.05	20.81	
			49	21.00	20.84	20.61	20.51	
		25	0	20.00	19.90	19.89	19.80	
			13	20.00	19.91	19.86	19.81	
			25	20.00	19.84	19.88	19.65	
		50	0	20.00	19.86	19.83	19.66	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26865	26915	26965	
					831.5MHz	836.5MHz	841.5MHz	
15MHz	QPSK	1	0	22.00	21.69	21.59	21.51	
			38	22.00	21.82	21.72	21.65	
			74	22.00	21.54	21.47	21.36	
		36	0	21.00	20.81	20.74	20.53	
			18	21.00	20.83	20.76	20.71	
			39	21.00	20.75	20.68	20.55	
		75	0	21.00	20.76	20.71	20.61	
		16QAM	1	0	21.50	20.98	20.62	21.02
				38	21.50	21.11	20.80	21.09
	74			21.00	20.87	20.49	20.74	
	36		0	20.00	19.79	19.63	19.67	
			18	20.00	19.79	19.77	19.68	
			39	20.00	19.82	19.73	19.61	
	75		0	20.00	19.76	19.78	19.67	

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	24.50	24.11	23.19	21.94		
			13	24.50	24.28	23.24	21.79		
			24	24.50	24.08	23.00	21.90		
		12	0	23.50	23.33	22.21	20.65		
			6	23.50	23.37	22.20	20.70		
			13	23.50	23.08	21.92	20.58		
		25	0	23.50	23.07	22.16	20.63		
		16QAM	1	0	23.50	23.22	22.11	20.54	
				13	23.50	23.38	22.06	20.83	
	24			23.00	22.95	22.09	20.49		
	12		0	22.50	22.22	21.11	19.54		
			6	22.00	21.98	20.96	19.69		
			13	22.00	21.91	21.02	19.48		
	25		0	22.50	22.21	20.90	19.80		
	Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39700	40620	41540
							2501.0MHz	2593.0MHz	2685.0MHz
	10MHz	QPSK	1	0	24.50	24.27	23.25	22.15	
				25	25.00	24.75	23.47	22.34	
49				25.00	24.50	23.29	21.55		
25			0	23.50	23.24	22.18	20.65		
			13	23.50	23.49	22.17	20.79		
			25	23.50	23.42	22.28	20.37		
50			0	23.50	23.16	22.30	20.63		
16QAM			1	0	23.50	23.48	22.01	20.44	
				25	23.50	23.08	22.28	20.60	
		49		23.50	23.13	21.87	20.28		
		25	0	22.50	22.14	21.11	19.61		
			13	22.50	22.39	21.06	19.52		
			25	22.50	22.32	21.20	19.32		
		50	0	22.50	22.07	21.22	19.46		

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	24.50	24.26	23.16	22.01
			38	24.50	24.38	23.08	22.06
			74	24.00	23.86	22.38	21.02
		36	0	23.00	22.98	22.08	20.45
			18	23.50	23.00	22.09	20.46
			39	23.00	22.90	21.99	20.58
	75	0	23.00	22.97	21.83	20.66	
	16QAM	1	0	22.50	22.44	21.53	20.29
			38	23.00	22.51	21.62	20.39
			74	22.50	22.23	21.48	20.06
		36	0	22.00	21.86	21.23	19.63
			18	22.00	21.58	21.04	19.67
			39	22.00	21.75	21.06	19.51
		75	0	22.00	21.83	21.23	19.53
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39750	40620
	2506.0MHz					2593.0MHz	2680.0MHz
20MHz	QPSK	1	0	24.00	23.83	22.82	22.05
			50	24.50	24.26	22.99	22.35
			99	24.50	24.13	22.26	21.22
		50	0	23.50	23.13	21.68	20.63
			25	23.50	23.30	21.66	20.75
			50	23.00	22.95	21.57	20.31
	100	0	23.50	23.15	21.88	20.40	
	16QAM	1	0	22.00	21.98	21.15	20.45
			50	23.00	22.82	21.45	21.02
			99	22.50	22.42	21.15	19.86
		50	0	22.00	21.60	20.87	19.75
			25	21.50	21.48	20.93	19.47
			50	22.00	21.68	20.80	19.20
		100	0	22.00	21.54	21.17	19.83

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	21.50	21.07	21.04	21.05	
			2	21.50	21.16	21.13	21.14	
			5	21.50	21.07	21.00	21.03	
		3	0	21.50	21.18	21.17	21.15	
			2	21.50	21.17	21.21	21.03	
			3	21.50	21.14	21.18	20.86	
		6	0	20.50	20.15	20.21	20.12	
		16QAM	1	0	20.50	20.31	20.16	20.03
				2	20.50	20.41	20.30	20.19
	5			20.50	20.34	20.19	20.07	
	3		0	20.50	20.20	20.46	20.14	
			2	20.50	20.26	20.49	20.17	
			3	20.50	20.26	20.37	20.17	
	6		0	19.50	19.18	19.26	19.09	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131987	132322	132657	
					1711.5MHz	1745.0MHz	1778.5MHz	
3MHz	QPSK	1	0	21.50	21.28	21.24	21.15	
			7	21.50	21.39	21.38	21.06	
			14	21.50	21.27	21.07	20.85	
		8	0	20.50	20.28	20.30	20.24	
			4	20.50	20.31	20.29	20.28	
			7	20.50	20.30	20.26	20.22	
	15	0	20.50	20.26	20.29	20.24		
	16QAM	1	0	21.00	20.34	20.30	20.58	
			7	21.00	20.48	20.42	20.62	
			14	20.50	20.37	20.11	20.49	
		8	0	19.50	19.39	19.17	19.20	
			4	19.50	19.40	19.27	19.40	
			7	19.50	19.39	19.32	19.37	
		15	0	19.50	19.39	19.29	19.31	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131997	132322
1712.5MHz							1745.0MHz	1777.5MHz
5MHz	QPSK	1	0	21.50	21.06	21.02	20.93	
			13	21.50	21.15	21.16	21.05	
			24	21.50	21.02	21.00	20.94	
		12	0	20.50	20.10	20.12	20.11	
			6	20.50	20.20	20.25	20.13	
			13	20.50	20.14	20.19	20.04	
	25	0	20.50	20.14	20.15	20.04		
	16QAM	1	0	20.50	20.18	20.42	19.82	
			13	20.50	20.33	20.48	20.01	
			24	20.50	20.16	20.33	19.85	
		12	0	19.50	19.14	19.20	19.07	
			6	19.50	19.22	19.29	19.12	
			13	19.50	19.18	19.19	19.03	
		25	0	19.50	19.19	19.18	19.10	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132022	132322
1715.0MHz							1745.0MHz	1775.0MHz
10MHz	QPSK	1	0	21.50	21.14	21.13	21.02	
			25	21.50	21.37	21.32	21.22	
			49	21.50	21.19	21.05	20.96	
		25	0	20.50	20.27	20.24	20.17	
			13	20.50	20.31	20.31	20.16	
			25	20.50	20.29	20.28	20.12	
	50	0	20.50	20.29	20.26	20.17		
	16QAM	1	0	21.00	20.20	20.38	20.57	
			25	21.00	20.44	20.56	20.82	
			49	21.00	20.27	20.31	20.60	
		25	0	19.50	19.32	19.27	19.22	
			13	19.50	19.46	19.33	19.23	
			25	19.50	19.43	19.29	19.18	
		50	0	19.50	19.35	19.31	19.21	

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	21.00	20.97	20.96	20.89
			38	21.50	21.19	21.13	21.02
			74	21.50	21.01	20.92	20.86
		36	0	20.50	20.18	20.18	20.13
			18	20.50	20.25	20.22	20.14
			39	20.50	20.22	20.19	20.10
	75	0	20.50	20.20	20.16	20.11	
	16QAM	1	0	20.50	20.45	20.23	20.43
			38	21.00	20.73	20.39	20.62
			74	21.00	20.57	20.15	20.44
		36	0	19.50	19.11	19.19	19.13
			18	19.50	19.24	19.21	19.13
			39	19.50	19.21	19.23	19.10
		75	0	19.50	19.19	19.20	19.08
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322
					1720.0MHz	1745.0MHz	1770.0MHz
20MHz	QPSK	1	0	21.00	20.81	20.89	20.74
			50	21.50	21.35	21.28	21.14
			99	21.00	20.88	20.81	20.72
		50	0	20.50	20.23	20.16	20.14
			25	20.50	20.26	20.23	20.07
			50	20.50	20.21	20.19	19.98
	100	0	20.50	20.25	20.18	20.05	
	16QAM	1	0	20.50	20.49	20.17	20.04
			50	21.50	21.02	20.51	20.50
			99	21.00	20.56	20.04	20.06
		50	0	19.50	19.26	19.19	19.13
			25	19.50	19.35	19.22	19.08
			50	19.50	19.25	19.23	19.03
		100	0	19.50	19.28	19.23	19.12

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	21.97	21.83	21.87
			13	22.50	22.01	21.93	22.00
			24	22.00	21.86	21.80	21.87
		12	0	21.00	20.65	20.87	20.93
			6	21.00	20.98	20.95	20.99
			13	21.00	20.94	20.88	21.00
	25	0	21.00	20.82	20.90	20.91	
	16QAM	1	0	21.50	20.95	21.08	20.74
			13	21.50	21.05	21.20	20.89
			24	21.50	20.97	21.06	20.71
		12	0	20.00	19.56	19.81	19.86
			6	20.00	19.82	19.95	19.95
			13	20.00	19.87	19.89	19.87
		25	0	20.00	19.83	19.86	19.92

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	21.92	21.83	21.88	
			25	22.50	22.18	22.12	22.18	
			49	22.00	21.94	21.87	21.93	
		25	0	21.50	20.72	20.95	21.08	
			13	21.50	21.03	21.03	21.13	
			25	21.50	20.96	20.99	21.01	
		50	0	21.50	20.86	21.00	21.04	
		16QAM	1	0	21.50	20.91	21.03	21.44
				25	22.00	21.17	21.33	21.80
	49			22.00	20.92	21.09	21.57	
	25		0	20.50	19.76	19.95	20.11	
			13	20.50	20.06	20.05	20.14	
			25	20.50	20.00	20.00	20.05	
	50	0	20.50	19.82	20.01	20.06		
	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	21.73	21.66	21.61	
			38	22.00	21.92	21.88	21.88	
			74	22.00	21.78	21.77	21.78	
		36	0	21.00	20.82	20.89	20.92	
			18	21.50	20.98	20.97	21.04	
			39	21.50	20.98	20.96	21.02	
		75	0	21.00	20.90	20.91	20.99	
		16QAM	1	0	21.50	21.07	20.83	21.19
				38	22.00	21.30	21.08	21.55
	74			21.50	21.13	20.93	21.38	
	36		0	20.00	19.71	19.83	19.97	
			18	20.50	19.92	19.92	20.05	
			39	20.50	19.91	19.80	20.06	
	75	0	20.50	19.83	19.79	20.03		
	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	21.62	21.55	21.60	
			50	22.50	22.08	22.12	22.14	
			99	22.00	21.64	21.72	21.72	
		50	0	21.00	20.76	20.82	20.88	
			25	21.00	20.91	20.97	20.97	
			50	21.50	21.03	20.83	20.97	
		100	0	21.00	20.87	20.84	20.93	
		16QAM	1	0	21.50	20.84	21.11	20.80
				50	22.00	21.35	21.64	21.32
	99			21.50	20.91	21.28	20.99	
	50		0	20.00	19.76	19.79	19.89	
			25	20.00	19.88	19.93	19.99	
			50	20.00	19.98	19.81	19.94	
	100	0	20.00	19.87	19.80	19.93		

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	15.36	15.50	No
		6	2437	15.78	16.00	Yes
		11	2462	15.68	16.00	No
	802.11g	1	2412	15.06	15.50	No
		6	2437	15.99	16.00	No
		11	2462	15.76	16.00	No
	802.11n(HT20)	1	2412	14.98	15.00	No
		6	2437	15.92	16.00	No
		11	2462	15.03	15.50	No
	802.11n(HT40)	3	2422	15.35	15.50	No
		6	2437	14.94	15.00	No
		9	2452	15.80	16.00	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	11.69	12.00	No
		40	5200	11.83	12.00	No
		48	5240	12.36	12.50	Yes
	802.11n(HT20)	36	5180	11.60	12.00	No
		40	5200	11.53	12.00	No
		48	5240	12.10	12.50	No
	802.11n(HT40)	38	5190	11.72	12.00	No
		46	5230	11.94	12.00	No
	802.11ac(VHT20)	36	5180	11.48	11.50	No
		40	5200	11.54	12.00	No
		48	5240	12.11	12.50	No
	802.11ac(VHT40)	38	5190	11.55	12.00	No
46		5230	12.06	12.50	No	
802.11ac(VHT80)	42	5210	11.66	12.00	No	

Band (GHz)	Mode	Channel	Freq. (MHz)	EIRP(dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-2a (5.250~5.350)	802.11a	52	5260	12.41	12.50	Yes
		56	5280	12.24	12.50	No
		64	5320	12.14	12.50	No
	802.11n(HT20)	52	5260	12.08	12.50	No
		56	5280	11.96	12.00	No
		64	5320	11.90	12.00	No
	802.11ac(VHT20)	52	5260	11.98	12.00	No
		56	5300	12.05	12.50	No
		64	5320	11.71	12.00	No
	802.11n(HT40)	54	5270	11.99	12.00	No
		62	5310	11.93	12.00	No
	802.11ac(VHT40)	54	5270	12.01	12.50	No
		62	5310	11.93	12.00	No
	802.11ac(VHT80)	58	5290	11.83	12.00	No

Band (GHz)	Mode	Channel	Freq. (MHz)	EIRP(dBm)	Maximum Tune-up(dBm)	SAR Test Require.
U-NII-2c (5.470~5.725)	802.11a	100	5500	10.49	10.50	No
		120	5600	9.31	9.50	No
		140	5700	10.72	11.00	Yes
	802.11n(HT20)	100	5500	10.16	10.50	No
		120	5580	9.11	9.50	No
		140	5700	10.57	11.00	No
	802.11ac(VHT20)	100	5500	10.27	10.50	No
		120	5580	9.13	9.50	No

		140	5700	10.53	11.00	No
	802.11n(HT40)	102	5510	9.79	10.00	No
		118	5590	9.08	9.50	No
		134	5670	10.31	10.50	No
		102	5510	9.89	10.00	No
	802.11ac(VHT40)	118	5590	9.13	9.50	No
		134	5670	10.42	10.50	No
		106	5530	9.44	9.50	No
	802.11ac(VHT80)	122	5610	9.67	10.00	No
Band (GHz)		Mode	Channel	Freq. (MHz)	EIRP(dBm)	Maximum Tune-up(dBm)
U-NII-3 (5.725~5.850)	802.11a	149	5745	10.58	11.00	No
		157	5785	10.87	11.00	Yes
		165	5825	10.68	11.00	No
	802.11n(HT20)	149	5745	10.41	10.50	No
		157	5785	10.51	11.00	No
		165	5825	10.62	11.00	No
	802.11ac(VHT20)	149	5745	10.41	10.50	No
		157	5785	10.62	11.00	No
		165	5825	10.45	10.50	No
	802.11n(HT40)	151	5755	10.31	10.50	No
		159	5795	10.65	11.00	No
	802.11ac(VHT40)	151	5755	10.37	10.50	No
		159	5795	10.66	11.00	No
	802.11ac(VHT80)	155	5775	10.47	10.50	No

8.5 Bluetooth

EDR	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	6.00	5.41	5.82	4.69
	π/4QPSK	5.50	4.75	5.18	4.68
	8DPSK	5.50	4.79	5.17	4.66
BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	20	39
			2402MHz	2440MHz	2480MHz
	1Mbps	5.50	4.97	5.19	5.25
	1Mbps	5.50	5.13	5.37	5.43

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
0	2.402	6.00	3.98	0	2.72	Yes
0	2.402	6.00	3.98	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:

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

where

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

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

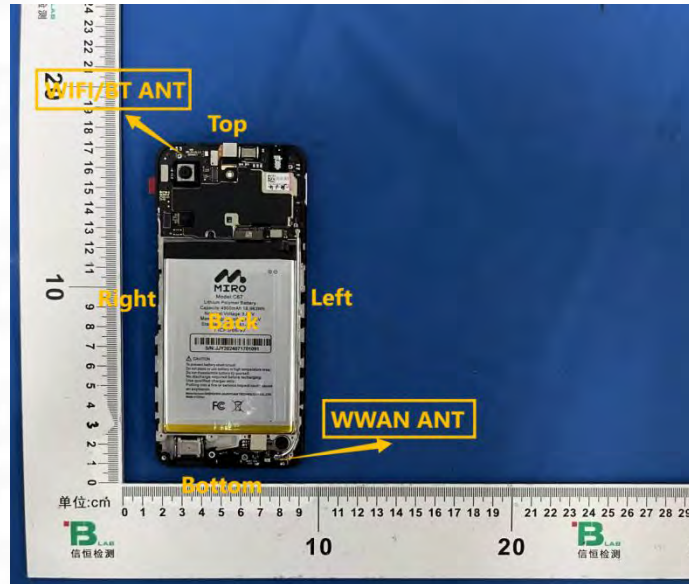
and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1).

*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	<25	60	158	<25
BT/Wifi	<25	<25	61	<25	<25	161
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	Yes	No	No	Yes
BT/Wifi	Yes	Yes	No	Yes	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	Head	Body-worn
					Test Dist.(mm)	0	10
BT	0	2.402	6.00	3.98	Estimated SAR(W/kg)	/	0.082

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	1.640	0.101	100.00	1.000	32.56	33.00	1.107	0.112	/
	Left Tilt	128	824.2	-0.530	0.053	100.00	1.000	32.56	33.00	1.107	0.059	/
	Right Cheek	128	824.2	-2.590	0.106	100.00	1.000	32.56	33.00	1.107	0.117	1#
	Right Tilt	128	824.2	3.120	0.060	100.00	1.000	32.56	33.00	1.107	0.066	/
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	-3.340	0.158	100.00	1.000	32.56	33.00	1.107	0.175	/
	Back	128	824.2	4.510	0.180	100.00	1.000	32.56	33.00	1.107	0.199	/
	Left	128	824.2	0.900	0.101	100.00	1.000	32.56	33.00	1.107	0.112	/
	Bottom	128	824.2	-0.790	0.127	100.00	1.000	32.56	33.00	1.107	0.141	/
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+2slots	Front	128	824.2	-0.640	0.173	100.00	1.000	31.57	32.00	1.104	0.191	/
	Back	128	824.2	3.560	0.196	100.00	1.000	31.57	32.00	1.104	0.216	2#
	Left	128	824.2	2.800	0.110	100.00	1.000	31.57	32.00	1.104	0.121	/
	Bottom	128	824.2	-3.100	0.138	100.00	1.000	31.57	32.00	1.104	0.152	/

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	3.010	0.104	100.00	1.000	29.17	29.50	1.079	0.112	/
	Left Tilt	810	1909.8	-0.690	0.052	100.00	1.000	29.17	29.50	1.079	0.056	/
	Right Cheek	810	1909.8	2.590	0.109	100.00	1.000	29.17	29.50	1.079	0.118	3#
	Right Tilt	810	1909.8	1.810	0.057	100.00	1.000	29.17	29.50	1.079	0.062	/
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	1.370	0.403	100.00	1.000	29.17	29.50	1.079	0.435	/
	Back	810	1909.8	1.690	0.421	100.00	1.000	29.17	29.50	1.079	0.454	/
	Left	810	1909.8	0.590	0.352	100.00	1.000	29.17	29.50	1.079	0.380	/
	Bottom	810	1909.8	-4.460	0.374	100.00	1.000	29.17	29.50	1.079	0.404	/
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+2slots	Front	810	1909.8	-3.800	0.422	100.00	1.000	27.94	28.00	1.014	0.428	/
	Back	810	1909.8	-1.770	0.440	100.00	1.000	27.94	28.00	1.014	0.446	4#
	Left	810	1909.8	-3.740	0.332	100.00	1.000	27.94	28.00	1.014	0.337	/
	Bottom	810	1909.8	-0.840	0.351	100.00	1.000	27.94	28.00	1.014	0.356	/

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	9400	1880.0	2.220	0.492	100.00	1.000	21.53	22.00	1.114	0.548	/
	Left Tilt	9400	1880.0	-1.830	0.257	100.00	1.000	21.53	22.00	1.114	0.286	/
	Right Cheek	9400	1880.0	4.030	0.500	100.00	1.000	21.53	22.00	1.114	0.557	5#
	Right Tilt	9400	1880.0	2.920	0.264	100.00	1.000	21.53	22.00	1.114	0.294	/
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	9400	1880.0	2.150	0.573	100.00	1.000	21.53	22.00	1.114	0.638	/
	Back	9400	1880.0	0.820	0.602	100.00	1.000	21.53	22.00	1.114	0.671	6#
	Left	9400	1880.0	1.470	0.503	100.00	1.000	21.53	22.00	1.114	0.560	/
	Bottom	9400	1880.0	1.510	0.539	100.00	1.000	21.53	22.00	1.114	0.600	/

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	2.880	0.123	100.00	1.000	21.22	21.50	1.067	0.131	/
	Left Tilt	1413	1732.6	3.670	0.062	100.00	1.000	21.22	21.50	1.067	0.066	/
	Right Cheek	1413	1732.6	1.700	0.130	100.00	1.000	21.22	21.50	1.067	0.139	7#
	Right Tilt	1413	1732.6	-0.840	0.068	100.00	1.000	21.22	21.50	1.067	0.073	/

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	2.130	0.308	100.00	1.000	21.22	21.50	1.067	0.329	/
	Back	1413	1732.6	-2.600	0.334	100.00	1.000	21.22	21.50	1.067	0.356	8#
	Left	1413	1732.6	-0.020	0.255	100.00	1.000	21.22	21.50	1.067	0.272	/
	Bottom	1413	1732.6	-2.560	0.281	100.00	1.000	21.22	21.50	1.067	0.300	/

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	4183	836.6	3.650	0.262	100.00	1.000	21.29	21.50	1.050	0.275	/
	Left Tilt	4183	836.6	-2.560	0.132	100.00	1.000	21.29	21.50	1.050	0.139	/
	Right Cheek	4183	836.6	4.850	0.266	100.00	1.000	21.29	21.50	1.050	0.279	9#
	Right Tilt	4183	836.6	0.450	0.137	100.00	1.000	21.29	21.50	1.050	0.144	/

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	4183	836.6	2.660	0.205	100.00	1.000	21.29	21.50	1.050	0.215	/
	Back	4183	836.6	-1.630	0.229	100.00	1.000	21.29	21.50	1.050	0.240	10#
	Left	4183	836.6	-2.860	0.156	100.00	1.000	21.29	21.50	1.050	0.164	/
	Bottom	4183	836.6	-1.100	0.182	100.00	1.000	21.29	21.50	1.050	0.191	/

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	18900	1880.0	2.890	0.715	100.00	1.000	22.07	22.50	1.104	0.789	/
		Left Tilt	18900	1880.0	-0.700	0.354	100.00	1.000	22.07	22.50	1.104	0.391	/
		Right Cheek	18900	1880.0	-3.920	0.721	100.00	1.000	22.07	22.50	1.104	0.796	11#
		Right Tilt	18900	1880.0	-0.630	0.362	100.00	1.000	22.07	22.50	1.104	0.400	/
	50%RB	Left Cheek	18900	1880.0	-2.940	0.693	100.00	1.000	20.95	21.00	1.012	0.701	/
		Left Tilt	18900	1880.0	-0.270	0.334	100.00	1.000	20.95	21.00	1.012	0.338	/
		Right Cheek	18900	1880.0	3.080	0.702	100.00	1.000	20.95	21.00	1.012	0.710	/
		Right Tilt	18900	1880.0	-2.070	0.340	100.00	1.000	20.95	21.00	1.012	0.344	/

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	18900	1880.0	-1.480	0.631	100.00	1.000	22.07	22.50	1.104	0.697	/
		Back	18900	1880.0	4.610	0.653	100.00	1.000	22.07	22.50	1.104	0.721	12#
		Left	18900	1880.0	-3.740	0.551	100.00	1.000	22.07	22.50	1.104	0.608	/
		Bottom	18900	1880.0	3.110	0.604	100.00	1.000	22.07	22.50	1.104	0.667	/
	50%RB	Front	18900	1880.0	-3.040	0.610	100.00	1.000	20.95	21.00	1.012	0.617	/
		Back	18900	1880.0	-0.370	0.632	100.00	1.000	20.95	21.00	1.012	0.640	/
		Left	18900	1880.0	-4.430	0.530	100.00	1.000	20.95	21.00	1.012	0.536	/
		Bottom	18900	1880.0	0.970	0.572	100.00	1.000	20.95	21.00	1.012	0.579	/

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 (BW: 20MHz)	1RB	Left Cheek	20050	1720.0	1.790	0.532	100.00	1.000	21.31	21.50	1.045	0.556	/
		Left Tilt	20050	1720.0	4.380	0.261	100.00	1.000	21.31	21.50	1.045	0.273	/
		Right Cheek	20050	1720.0	2.340	0.537	100.00	1.000	21.31	21.50	1.045	0.561	13#
		Right Tilt	20050	1720.0	-1.120	0.266	100.00	1.000	21.31	21.50	1.045	0.278	/

	50%RB	Left Cheek	20050	1720.0	3.530	0.509	100.00	1.000	20.25	20.50	1.059	0.539	/
		Left Tilt	20050	1720.0	-2.950	0.237	100.00	1.000	20.25	20.50	1.059	0.251	/
		Right Cheek	20050	1720.0	-1.060	0.515	100.00	1.000	20.25	20.50	1.059	0.545	/
		Right Tilt	20050	1720.0	-1.850	0.243	100.00	1.000	20.25	20.50	1.059	0.257	/
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	3.880	0.318	100.00	1.000	21.31	21.50	1.045	0.332	/
		Back	20175	1732.5	-3.130	0.340	100.00	1.000	21.31	21.50	1.045	0.355	14#
		Left	20175	1732.5	2.150	0.253	100.00	1.000	21.31	21.50	1.045	0.264	/
		Bottom	20300	1745.0	3.020	0.284	100.00	1.000	21.31	21.50	1.045	0.297	/
	50%RB	Front	20175	1732.5	-3.100	0.294	100.00	1.000	20.25	20.50	1.059	0.311	/
		Back	20175	1732.5	3.120	0.321	100.00	1.000	20.25	20.50	1.059	0.340	/
		Left	20175	1732.5	-1.400	0.237	100.00	1.000	20.25	20.50	1.059	0.251	/
		Bottom	20175	1732.5	-4.650	0.261	100.00	1.000	20.25	20.50	1.059	0.276	/

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	0.890	0.118	100.00	1.000	22.15	22.50	1.084	0.128	/
		Left Tilt	20450	829.0	-2.850	0.060	100.00	1.000	22.15	22.50	1.084	0.065	/
		Right Cheek	20450	829.0	-3.830	0.122	100.00	1.000	22.15	22.50	1.084	0.132	15#
		Right Tilt	20450	829.0	1.590	0.065	100.00	1.000	22.15	22.50	1.084	0.070	/
	50%RB	Left Cheek	20450	829.0	3.600	0.099	100.00	1.000	20.98	21.00	1.005	0.099	/
		Left Tilt	20450	829.0	-2.790	0.053	100.00	1.000	20.98	21.00	1.005	0.053	/
		Right Cheek	20450	829.0	2.190	0.104	100.00	1.000	20.98	21.00	1.005	0.105	/
		Right Tilt	20450	829.0	-0.900	0.058	100.00	1.000	20.98	21.00	1.005	0.058	/
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	-4.330	0.278	100.00	1.000	22.15	22.50	1.084	0.301	/
		Back	20450	829.0	-2.560	0.311	100.00	1.000	22.15	22.50	1.084	0.337	16#
		Left	20450	829.0	-3.360	0.218	100.00	1.000	22.15	22.50	1.084	0.236	/
		Bottom	20450	829.0	0.750	0.244	100.00	1.000	22.15	22.50	1.084	0.264	/
	50%RB	Front	20450	829.0	-3.130	0.261	100.00	1.000	20.98	21.00	1.005	0.262	/
		Back	20450	829.0	2.030	0.289	100.00	1.000	20.98	21.00	1.005	0.290	/
		Left	20450	829.0	0.140	0.194	100.00	1.000	20.98	21.00	1.005	0.195	/
		Bottom	20450	829.0	-3.100	0.228	100.00	1.000	20.98	21.00	1.005	0.229	/

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 7 (BW: 20MHz)	1RB	Left Cheek	20850	2510.0	-3.070	0.196	100.00	1.000	22.98	23.00	1.005	0.197	/
		Left Tilt	20850	2510.0	2.970	0.100	100.00	1.000	22.98	23.00	1.005	0.101	/
		Right Cheek	20850	2510.0	-0.350	0.204	100.00	1.000	22.98	23.00	1.005	0.205	17#
		Right Tilt	20850	2510.0	-0.070	0.106	100.00	1.000	22.98	23.00	1.005	0.107	/
	50%RB	Left Cheek	20850	2510.0	-1.230	0.179	100.00	1.000	21.82	22.00	1.042	0.187	/
		Left Tilt	20850	2510.0	-0.010	0.083	100.00	1.000	21.82	22.00	1.042	0.086	/
		Right Cheek	20850	2510.0	-0.200	0.185	100.00	1.000	21.82	22.00	1.042	0.193	/
		Right Tilt	20850	2510.0	-3.960	0.091	100.00	1.000	21.82	22.00	1.042	0.095	/
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 7 (BW: 20MHz)	1RB	Front	20850	2510.0	-3.440	0.551	100.00	1.000	22.98	23.00	1.005	0.554	/
		Back	20850	2510.0	2.290	0.583	100.00	1.000	22.98	23.00	1.005	0.586	18#
		Left	20850	2510.0	-2.100	0.473	100.00	1.000	22.98	23.00	1.005	0.475	/
		Bottom	20850	2510.0	-0.480	0.519	100.00	1.000	22.98	23.00	1.005	0.522	/
	50%RB	Front	20850	2510.0	-1.780	0.536	100.00	1.000	21.82	22.00	1.042	0.559	/
		Back	20850	2510.0	-1.030	0.564	100.00	1.000	21.82	22.00	1.042	0.588	/
		Left	20850	2510.0	-0.370	0.454	100.00	1.000	21.82	22.00	1.042	0.473	/
		Bottom	20850	2510.0	-4.390	0.497	100.00	1.000	21.82	22.00	1.042	0.518	/

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	23130	711.0	3.120	0.094	100.00	1.000	22.04	22.50	1.112	0.105	/
		Left Tilt	23130	711.0	-1.490	0.043	100.00	1.000	22.04	22.50	1.112	0.048	/
		Right Cheek	23130	711.0	-3.360	0.098	100.00	1.000	22.04	22.50	1.112	0.109	19#
		Right Tilt	23130	711.0	1.520	0.049	100.00	1.000	22.04	22.50	1.112	0.054	/
	50%RB	Left Cheek	23130	711.0	-3.150	0.077	100.00	1.000	20.95	21.00	1.012	0.078	/
		Left Tilt	23130	711.0	-1.260	0.036	100.00	1.000	20.95	21.00	1.012	0.036	/
		Right Cheek	23130	711.0	0.940	0.081	100.00	1.000	20.95	21.00	1.012	0.082	/
		Right Tilt	23130	711.0	0.740	0.041	100.00	1.000	20.95	21.00	1.012	0.041	/

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 (BW: 10MHz)	1RB	Front	23130	711.0	1.430	0.224	100.00	1.000	22.04	22.50	1.112	0.249	/
		Back	23130	711.0	1.510	0.258	100.00	1.000	22.04	22.50	1.112	0.287	20#
		Left	23130	711.0	2.310	0.175	100.00	1.000	22.04	22.50	1.112	0.195	/
		Bottom	23130	711.0	-0.620	0.202	100.00	1.000	22.04	22.50	1.112	0.225	/
	50%RB	Front	23130	711.0	-3.750	0.201	100.00	1.000	20.95	21.00	1.012	0.203	/
		Back	23130	711.0	2.830	0.231	100.00	1.000	20.95	21.00	1.012	0.234	/
		Left	23130	711.0	1.250	0.154	100.00	1.000	20.95	21.00	1.012	0.156	/
		Bottom	23130	711.0	-1.680	0.183	100.00	1.000	20.95	21.00	1.012	0.185	/

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 13 (BW: 10MHz)	1RB	Left Cheek	23230	782.0	3.820	0.132	100.00	1.000	21.75	22.00	1.059	0.140	/
		Left Tilt	23230	782.0	3.160	0.066	100.00	1.000	21.75	22.00	1.059	0.070	/
		Right Cheek	23230	782.0	2.670	0.137	100.00	1.000	21.75	22.00	1.059	0.145	21#
		Right Tilt	23230	782.0	-0.750	0.071	100.00	1.000	21.75	22.00	1.059	0.075	/
	50%RB	Left Cheek	23230	782.0	1.560	0.119	100.00	1.000	20.65	21.00	1.084	0.129	/
		Left Tilt	23230	782.0	-1.660	0.056	100.00	1.000	20.65	21.00	1.084	0.061	/
		Right Cheek	23230	782.0	3.010	0.124	100.00	1.000	20.65	21.00	1.084	0.134	/
		Right Tilt	23230	782.0	-2.080	0.061	100.00	1.000	20.65	21.00	1.084	0.066	/

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 13 (BW: 10MHz)	1RB	Front	23230	782.0	-0.650	0.112	100.00	1.000	21.75	22.00	1.059	0.119	/
		Back	23230	782.0	-2.270	0.126	100.00	1.000	21.75	22.00	1.059	0.133	22#
		Left	23230	782.0	0.960	0.077	100.00	1.000	21.75	22.00	1.059	0.082	/
		Bottom	23230	782.0	3.740	0.090	100.00	1.000	21.75	22.00	1.059	0.095	/
	50%RB	Front	23230	782.0	1.670	0.094	100.00	1.000	20.65	21.00	1.084	0.102	/
		Back	23230	782.0	2.470	0.106	100.00	1.000	20.65	21.00	1.084	0.115	/
		Left	23230	782.0	-4.230	0.061	100.00	1.000	20.65	21.00	1.084	0.066	/
		Bottom	23230	782.0	-2.600	0.072	100.00	1.000	20.65	21.00	1.084	0.078	/

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 17 (BW:10MHz)	1RB	Left Cheek	23780	709.0	2.170	0.197	100.00	1.000	22.13	22.50	1.089	0.215	/
		Left Tilt	23780	709.0	-1.090	0.102	100.00	1.000	22.13	22.50	1.089	0.111	/
		Right Cheek	23780	709.0	4.840	0.203	100.00	1.000	22.13	22.50	1.089	0.221	23#
		Right Tilt	23780	709.0	1.640	0.108	100.00	1.000	22.13	22.50	1.089	0.118	/
	50%RB	Left Cheek	23780	709.0	-0.080	0.176	100.00	1.000	21.01	21.50	1.119	0.197	/
		Left Tilt	23780	709.0	-2.520	0.087	100.00	1.000	21.01	21.50	1.119	0.097	/
		Right Cheek	23780	709.0	2.080	0.181	100.00	1.000	21.01	21.50	1.119	0.203	/
		Right Tilt	23780	709.0	3.680	0.092	100.00	1.000	21.01	21.50	1.119	0.103	/

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 17 (BW: 10MHz)	1RB	Front	23780	709.0	1.770	0.235	100.00	1.000	22.13	22.50	1.089	0.256	/
		Back	23780	709.0	-1.470	0.264	100.00	1.000	22.13	22.50	1.089	0.287	24#

	50%RB	Left	23780	709.0	2.980	0.177	100.00	1.000	22.13	22.50	1.089	0.193	/
		Bottom	23780	709.0	-0.830	0.207	100.00	1.000	22.13	22.50	1.089	0.225	/
		Front	23780	709.0	-3.490	0.210	100.00	1.000	21.01	21.50	1.119	0.235	/
		Back	23780	709.0	-0.220	0.241	100.00	1.000	21.01	21.50	1.119	0.270	/
		Left	23780	709.0	-1.610	0.158	100.00	1.000	21.01	21.50	1.119	0.177	/
		Bottom	23780	709.0	2.620	0.188	100.00	1.000	21.01	21.50	1.119	0.210	/

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	26365	1882.5	1.430	0.776	100.00	1.000	21.48	21.50	1.005	0.780	/
		Left Tilt	26365	1882.5	0.030	0.462	100.00	1.000	21.48	21.50	1.005	0.464	/
		Right Cheek	26365	1882.5	-3.090	0.783	100.00	1.000	21.48	21.50	1.005	0.787	25#
		Right Tilt	26365	1882.5	0.820	0.468	100.00	1.000	21.48	21.50	1.005	0.470	/
	50%RB	Left Cheek	26365	1882.5	-1.180	0.760	100.00	1.000	20.35	20.50	1.035	0.787	/
		Left Tilt	26365	1882.5	-4.560	0.443	100.00	1.000	20.35	20.50	1.035	0.459	/
		Right Cheek	26365	1882.5	1.740	0.765	100.00	1.000	20.35	20.50	1.035	0.792	/
		Right Tilt	26365	1882.5	2.820	0.449	100.00	1.000	20.35	20.50	1.035	0.465	/

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	26365	1882.5	1.400	0.759	100.00	1.000	21.48	21.50	1.005	0.763	/
		Back	26365	1882.5	-2.830	0.788	100.00	1.000	21.48	21.50	1.005	0.792	26#
		Left	26365	1882.5	2.400	0.691	100.00	1.000	21.48	21.50	1.005	0.694	/
		Bottom	26365	1882.5	-1.240	0.726	100.00	1.000	21.48	21.50	1.005	0.730	/
	50%RB	Front	26365	1882.5	-4.040	0.748	100.00	1.000	20.35	20.50	1.035	0.774	/
		Back	26365	1882.5	-1.240	0.764	100.00	1.000	20.35	20.50	1.035	0.791	/
		Left	26365	1882.5	-1.780	0.675	100.00	1.000	20.35	20.50	1.035	0.699	/
		Bottom	26365	1882.5	2.190	0.705	100.00	1.000	20.35	20.50	1.035	0.730	/

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	4.050	0.243	100.00	1.000	22.07	22.50	1.104	0.268	/
		Left Tilt	26740	819.0	-0.740	0.123	100.00	1.000	22.07	22.50	1.104	0.136	/
		Right Cheek	26740	819.0	2.630	0.248	100.00	1.000	22.07	22.50	1.104	0.274	27#
		Right Tilt	26740	819.0	1.590	0.128	100.00	1.000	22.07	22.50	1.104	0.141	/
	50%RB	Left Cheek	26740	819.0	0.530	0.229	100.00	1.000	20.95	21.00	1.012	0.232	/
		Left Tilt	26740	819.0	0.210	0.108	100.00	1.000	20.95	21.00	1.012	0.109	/
		Right Cheek	26740	819.0	0.240	0.235	100.00	1.000	20.95	21.00	1.012	0.238	/
		Right Tilt	26740	819.0	-1.620	0.113	100.00	1.000	20.95	21.00	1.012	0.114	/

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	3.390	0.264	100.00	1.000	22.07	22.50	1.104	0.291	/
		Back	26740	819.0	-4.960	0.300	100.00	1.000	22.07	22.50	1.104	0.331	28#
		Left	26740	819.0	-3.620	0.208	100.00	1.000	22.07	22.50	1.104	0.230	/
		Bottom	26740	819.0	2.970	0.230	100.00	1.000	22.07	22.50	1.104	0.254	/
	50%RB	Front	26740	819.0	1.160	0.246	100.00	1.000	20.95	21.00	1.012	0.249	/
		Back	26740	819.0	-3.790	0.285	100.00	1.000	20.95	21.00	1.012	0.288	/
		Left	26740	819.0	-1.330	0.189	100.00	1.000	20.95	21.00	1.012	0.191	/
		Bottom	26740	819.0	2.210	0.213	100.00	1.000	20.95	21.00	1.012	0.216	/

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	3.980	0.285	100.00	1.000	21.82	22.00	1.042	0.297	/
		Left Tilt	26865	831.5	2.560	0.151	100.00	1.000	21.82	22.00	1.042	0.157	/
		Right Cheek	26865	831.5	3.390	0.291	100.00	1.000	21.82	22.00	1.042	0.303	29#
		Right Tilt	26865	831.5	-3.010	0.156	100.00	1.000	21.82	22.00	1.042	0.163	/
	50%RB	Left Cheek	26865	831.5	0.490	0.268	100.00	1.000	20.83	21.00	1.040	0.279	/

		Left Tilt	26865	831.5	-1.150	0.132	100.00	1.000	20.83	21.00	1.040	0.137	/
		Right Cheek	26865	831.5	0.120	0.273	100.00	1.000	20.83	21.00	1.040	0.284	/
		Right Tilt	26865	831.5	-2.180	0.138	100.00	1.000	20.83	21.00	1.040	0.144	/

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	0.750	0.215	100.00	1.000	21.82	22.00	1.042	0.224	/
		Back	26865	831.5	2.510	0.230	100.00	1.000	21.82	22.00	1.042	0.240	30#
		Left	26865	831.5	-1.710	0.172	100.00	1.000	21.82	22.00	1.042	0.179	/
		Bottom	26865	831.5	2.380	0.189	100.00	1.000	21.82	22.00	1.042	0.197	/
	50%RB	Front	26865	831.5	-4.260	0.197	100.00	1.000	20.83	21.00	1.040	0.205	/
		Back	26865	831.5	0.050	0.218	100.00	1.000	20.83	21.00	1.040	0.227	/
		Left	26865	831.5	1.280	0.168	100.00	1.000	20.83	21.00	1.040	0.175	/
		Bottom	26865	831.5	-2.710	0.179	100.00	1.000	20.83	21.00	1.040	0.186	/

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	39750	2506.0	4.230	0.557	100.00	1.000	24.26	24.50	1.057	0.589	/
		Left Tilt	39750	2506.0	-1.220	0.240	100.00	1.000	24.26	24.50	1.057	0.254	/
		Right Cheek	39750	2506.0	2.530	0.562	100.00	1.000	24.26	24.50	1.057	0.594	31#
		Right Tilt	39750	2506.0	3.340	0.245	100.00	1.000	24.26	24.50	1.057	0.259	/
	50%RB	Left Cheek	39750	2506.0	-0.200	0.530	100.00	1.000	23.30	23.50	1.047	0.555	/
		Left Tilt	39750	2506.0	-2.190	0.222	100.00	1.000	23.30	23.50	1.047	0.232	/
		Right Cheek	39750	2506.0	2.350	0.535	100.00	1.000	23.30	23.50	1.047	0.560	/
		Right Tilt	39750	2506.0	0.900	0.227	100.00	1.000	23.30	23.50	1.047	0.238	/

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	39750	2506.0	1.530	0.337	100.00	1.000	24.26	24.50	1.057	0.356	/
		Back	39750	2506.0	-4.860	0.363	100.00	1.000	24.26	24.50	1.057	0.384	32#
		Left	39750	2506.0	2.160	0.271	100.00	1.000	24.26	24.50	1.057	0.286	/
		Bottom	39750	2506.0	3.050	0.304	100.00	1.000	24.26	24.50	1.057	0.321	/
	50%RB	Front	39750	2506.0	-4.210	0.321	100.00	1.000	23.30	23.50	1.047	0.336	/
		Back	39750	2506.0	-1.540	0.349	100.00	1.000	23.30	23.50	1.047	0.365	/
		Left	39750	2506.0	0.410	0.256	100.00	1.000	23.30	23.50	1.047	0.268	/
		Bottom	39750	2506.0	1.000	0.296	100.00	1.000	23.30	23.50	1.047	0.310	/

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	132072	1720.0	0.660	0.745	100.00	1.000	21.35	21.50	1.035	0.771	/
		Left Tilt	132072	1720.0	-0.850	0.377	100.00	1.000	21.35	21.50	1.035	0.390	/
		Right Cheek	132072	1720.0	0.400	0.751	100.00	1.000	21.35	21.50	1.035	0.777	33#
		Right Tilt	132072	1720.0	3.880	0.382	100.00	1.000	21.35	21.50	1.035	0.395	/
	50%RB	Left Cheek	132072	1720.0	-1.470	0.726	100.00	1.000	20.26	20.50	1.057	0.767	/
		Left Tilt	132072	1720.0	0.510	0.361	100.00	1.000	20.26	20.50	1.057	0.382	/
		Right Cheek	132072	1720.0	-2.480	0.734	100.00	1.000	20.26	20.50	1.057	0.776	/
		Right Tilt	132072	1720.0	-3.760	0.367	100.00	1.000	20.26	20.50	1.057	0.388	/

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	132072	1720.0	1.670	0.218	100.00	1.000	21.35	21.50	1.035	0.226	/
		Back	132072	1720.0	-3.770	0.246	100.00	1.000	21.35	21.50	1.035	0.255	34#
		Left	132072	1720.0	-2.440	0.164	100.00	1.000	21.35	21.50	1.035	0.170	/
		Bottom	132072	1720.0	0.760	0.192	100.00	1.000	21.35	21.50	1.035	0.199	/
	50%RB	Front	132072	1720.0	2.710	0.202	100.00	1.000	20.26	20.50	1.057	0.214	/
		Back	132072	1720.0	-2.400	0.223	100.00	1.000	20.26	20.50	1.057	0.236	/
		Left	132072	1720.0	-3.440	0.151	100.00	1.000	20.26	20.50	1.057	0.160	/
		Bottom	132072	1720.0	-1.390	0.178	100.00	1.000	20.26	20.50	1.057	0.188	/

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	133372	688.0	3.210	0.173	100.00	1.000	22.14	22.50	1.086	0.188	/
		Left Tilt	133372	688.0	-1.810	0.087	100.00	1.000	22.14	22.50	1.086	0.094	/
		Right Cheek	133372	688.0	-2.610	0.180	100.00	1.000	22.14	22.50	1.086	0.195	35#
		Right Tilt	133372	688.0	-2.510	0.091	100.00	1.000	22.14	22.50	1.086	0.099	/
	50%RB	Left Cheek	133372	688.0	1.310	0.166	100.00	1.000	20.97	21.00	1.007	0.167	/
		Left Tilt	133372	688.0	1.100	0.071	100.00	1.000	20.97	21.00	1.007	0.071	/
		Right Cheek	133372	688.0	-0.740	0.171	100.00	1.000	20.97	21.00	1.007	0.172	/
		Right Tilt	133372	688.0	-2.340	0.076	100.00	1.000	20.97	21.00	1.007	0.077	/

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	133372	688.0	-2.490	0.231	100.00	1.000	22.14	22.50	1.086	0.251	/
		Back	133372	688.0	-1.840	0.264	100.00	1.000	22.14	22.50	1.086	0.287	36#
		Left	133372	688.0	0.370	0.176	100.00	1.000	22.14	22.50	1.086	0.191	/
		Bottom	133372	688.0	-1.890	0.206	100.00	1.000	22.14	22.50	1.086	0.224	/
	50%RB	Front	133372	688.0	3.710	0.216	100.00	1.000	20.97	21.00	1.007	0.218	/
		Back	133372	688.0	-2.240	0.241	100.00	1.000	20.97	21.00	1.007	0.243	/
		Left	133372	688.0	-0.730	0.157	100.00	1.000	20.97	21.00	1.007	0.158	/
		Bottom	133372	688.0	2.320	0.189	100.00	1.000	20.97	21.00	1.007	0.190	/

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	6	2437	-2.130	0.180	100.00	1.000	15.78	16.00	1.052	0.189	/
	Left Tilt	6	2437	3.690	0.087	100.00	1.000	15.78	16.00	1.052	0.092	/
	Right Cheek	6	2437	-2.600	0.185	100.00	1.000	15.78	16.00	1.052	0.195	37#
	Right Tilt	6	2437	2.480	0.093	100.00	1.000	15.78	16.00	1.052	0.098	/

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	6	2437	3.210	0.114	100.00	1.000	15.78	16.00	1.052	0.120	/
	Back	6	2437	3.570	0.132	100.00	1.000	15.78	16.00	1.052	0.139	38#
	Right	6	2437	1.370	0.081	100.00	1.000	15.78	16.00	1.052	0.085	/
	Top	6	2437	-0.260	0.092	100.00	1.000	15.78	16.00	1.052	0.097	/

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) 802.11a	Left Cheek	48	5240	-2.710	0.220	100.00	1.000	12.36	12.50	1.033	0.227	/
	Left Tilt	48	5240	3.280	0.127	100.00	1.000	12.36	12.50	1.033	0.131	/
	Right Cheek	48	5240	2.210	0.225	100.00	1.000	12.36	12.50	1.033	0.232	39#
	Right Tilt	48	5240	1.460	0.131	100.00	1.000	12.36	12.50	1.033	0.135	/

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) 802.11a	Front	48	5240	0.650	0.111	100.00	1.000	12.36	12.50	1.033	0.115	/
	Back	48	5240	-2.650	0.130	100.00	1.000	12.36	12.50	1.033	0.134	40#
	Right	48	5240	1.800	0.076	100.00	1.000	12.36	12.50	1.033	0.079	/
	Top	48	5240	2.190	0.089	100.00	1.000	12.36	12.50	1.033	0.092	/

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-2a (5.250~5.350) 802.11a	Left Cheek	52	5260	4.290	0.455	100.00	1.000	12.41	12.50	1.021	0.465	/
	Left Tilt	52	5260	-0.630	0.236	100.00	1.000	12.41	12.50	1.021	0.241	/
	Right Cheek	52	5260	-2.820	0.461	100.00	1.000	12.41	12.50	1.021	0.471	41#
	Right Tilt	52	5260	1.550	0.241	100.00	1.000	12.41	12.50	1.021	0.246	/

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-2a (5.250~5.350) 802.11a	Front	52	5260	0.280	0.218	100.00	1.000	12.41	12.50	1.021	0.223	/
	Back	52	5260	-4.250	0.241	100.00	1.000	12.41	12.50	1.021	0.246	42#

	Right	52	5260	1.220	0.157	100.00	1.000	12.41	12.50	1.021	0.160	/
	Top	52	5260	1.780	0.186	100.00	1.000	12.41	12.50	1.021	0.190	/

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-2c (5.470~5.725) 802.11a	Left Cheek	140	5700	3.740	0.332	100.00	1.000	10.72	11.00	1.067	0.354	/
	Left Tilt	140	5700	-1.650	0.161	100.00	1.000	10.72	11.00	1.067	0.172	/
	Right Cheek	140	5700	2.030	0.337	100.00	1.000	10.72	11.00	1.067	0.360	43#
	Right Tilt	140	5700	1.120	0.166	100.00	1.000	10.72	11.00	1.067	0.177	/

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-2c (5.470~5.725) 802.11a	Front	140	5700	3.160	0.414	100.00	1.000	10.72	11.00	1.067	0.442	/
	Back	140	5700	-2.840	0.437	100.00	1.000	10.72	11.00	1.067	0.466	44#
	Right	140	5700	2.600	0.353	100.00	1.000	10.72	11.00	1.067	0.377	/
	Top	140	5700	0.100	0.381	100.00	1.000	10.72	11.00	1.067	0.407	/

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) 802.11a	Left Cheek	157	5785	3.720	0.288	100.00	1.000	10.87	11.00	1.030	0.297	/
	Left Tilt	157	5785	-2.640	0.152	100.00	1.000	10.87	11.00	1.030	0.157	/
	Right Cheek	157	5785	1.730	0.294	100.00	1.000	10.87	11.00	1.030	0.303	45#
	Right Tilt	157	5785	-0.450	0.157	100.00	1.000	10.87	11.00	1.030	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.
U-NII-3 (5.725~5.850) 802.11a	Front	157	5785	3.310	0.431	100.00	1.000	10.87	11.00	1.030	0.444	/
	Back	157	5785	-2.950	0.466	100.00	1.000	10.87	11.00	1.030	0.480	46#
	Right	157	5785	1.170	0.364	100.00	1.000	10.87	11.00	1.030	0.375	/
	Top	157	5785	-0.620	0.402	100.00	1.000	10.87	11.00	1.030	0.414	/

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	39	2441	-2.060	0.143	100.00	1.000	5.82	6.00	1.042	0.147	/
	Left Tilt	39	2441	3.670	0.070	100.00	1.000	5.82	6.00	1.042	0.072	/
	Right Cheek	39	2441	2.940	0.151	100.00	1.000	5.82	6.00	1.042	0.156	47#
	Right Tilt	39	2441	1.520	0.075	100.00	1.000	5.82	6.00	1.042	0.077	/

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 ≤ 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 $0.788 < 0.80$ W/kg, repeated measurement is not require.

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 41	1RB	Left Cheek	0.789	0.189	0.465	0.147	0.978	1.254	0.936	N/A	N/A
		Left Tilt	0.391	0.092	0.241	0.072	0.483	0.632	0.463	N/A	N/A
		Right Cheek	0.796	0.195	0.471	0.156	0.991	1.267	0.952	N/A	N/A
		Right Tilt	0.400	0.098	0.246	0.077	0.498	0.646	0.477	N/A	N/A
	50%RB	Left Cheek	0.701	0.189	0.465	0.147	0.89	1.166	0.848	N/A	N/A
		Left Tilt	0.338	0.092	0.241	0.072	0.43	0.579	0.41	N/A	N/A
		Right Cheek	0.71	0.195	0.471	0.156	0.905	1.181	0.866	N/A	N/A
		Right Tilt	0.344	0.098	0.246	0.077	0.442	0.59	0.421	N/A	N/A

Hotspot(body-worn)

Band	Channel Type	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					
LTE Band 66	1RB	Front	0.763	0.120	0.444	0.082	0.883	1.207	0.845	N/A	N/A
		Back	0.792	0.139	0.480	0.082	0.931	1.272	0.874	N/A	N/A
		Left	0.694	/	/	/	0.694	0.694	0.694	N/A	N/A
		Right	/	0.085	0.375	0.082	0.085	0.375	0.082	N/A	N/A
		Top	/	0.097	0.414	0.082	0.097	0.414	0.082	N/A	N/A
		Bottom	0.730	/	/	/	0.730	0.730	0.730	N/A	N/A
		50%RB	Front	0.774	0.120	0.444	0.082	0.894	1.218	0.856	N/A
	Back		0.791	0.139	0.480	0.082	0.93	1.271	0.873	N/A	N/A
	Left		0.699	/	/	/	0.699	0.699	0.699	N/A	N/A
	Right		/	0.085	0.375	0.082	0.085	0.375	0.082	N/A	N/A
	Top		/	0.097	0.414	0.082	0.097	0.414	0.082	N/A	N/A
	Bottom		0.730	/	/	/	0.730	0.730	0.730	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	2024/02/02	2025/02/01
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	/	/	2023/11/16	2024/11/15
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%	20.5	9/8/2024
835	41.50	41.41	0.90	0.87	0.22%	3.33%	±5%	20.5	14/8/2024
1800	40.00	39.91	1.40	1.37	0.23%	2.14%	±5%	20.5	16/8/2024
1900	40.00	39.88	1.40	1.41	0.30%	-0.71%	±5%	20.5	20/8/2024
2450	39.20	39.08	1.80	1.81	0.31%	-0.56%	±5%	20.5	22/8/2024
2600	39.00	38.88	1.96	1.97	0.31%	-0.51%	±5%	20.5	23/8/2024
5200	36.00	35.88	4.66	4.70	0.33%	-0.86%	±5%	20.5	26/8/2024
5400	35.80	35.68	4.86	4.90	-0.34%	0.82%	±5%	20.5	26/8/2024
5600	35.50	35.38	5.07	5.11	-0.34%	0.79%	±5%	20.5	27/8/2024
5800	35.30	35.18	5.27	5.31	0.34%	-0.76%	±5%	20.5	27/8/2024

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	20.7	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%
5400	13	0.299	1.051	23.00	80.85	23.23	81.47	-0.99%	-0.77%
5600	13	0.304	1.084	23.38	83.38	22.64	78.71	3.29%	5.94%
5800	13	0.277	0.981	21.31	75.46	21.5	74.21	-0.89%	1.69%

ANNEX C SAR Dipole Calibrations

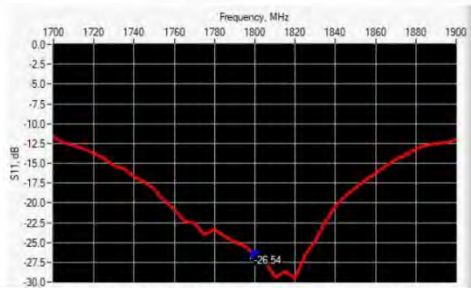
Justification for Extended SAR Dipole Calibrations

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.

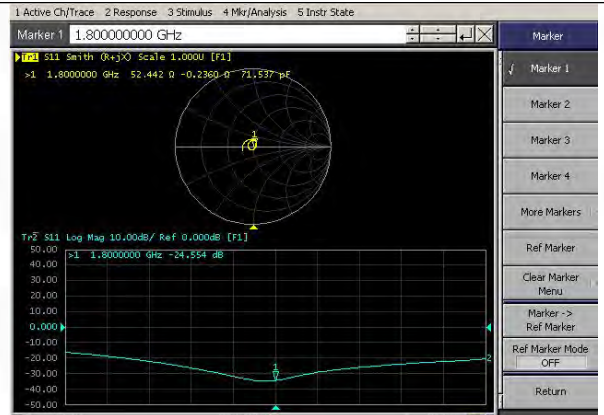
Frequency (MHz)	Return loss(dB)		Impedance(Ω)				error range (%)		Results (P/F)	Date of Measurement
	measurement	target	measurement		target		Return loss($\pm 20\%$)	Impedance($\pm 5 \Omega$)		
			real part	imaginary part	real part	imaginary part				
CW750	-20.92	-25.44	55.89	1.5	55.2	-1.2	-17.77%	3.4	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
CW5400	-27.63	-29.09	57.5	1.2	53.46	+0.61	-5.02%	4.63	P	2/5/2024
CW5600	-33.45	-31.06	51.7	0.7	52.76	-0.45	7.69%	2.21	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						

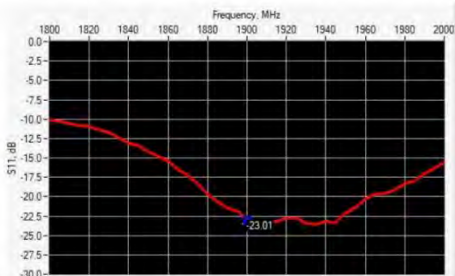
1800MHz Dipole



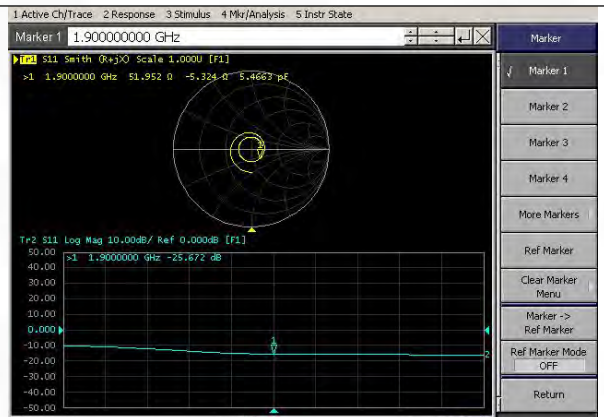
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
1800	-26.54	-20	52.8 Ω + 3.8 jΩ



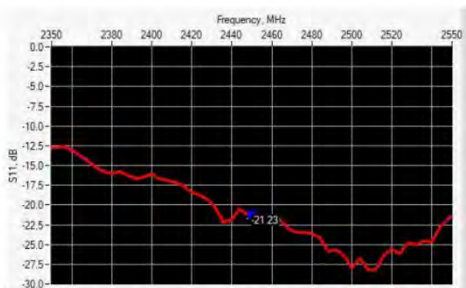
1900MHz Dipole



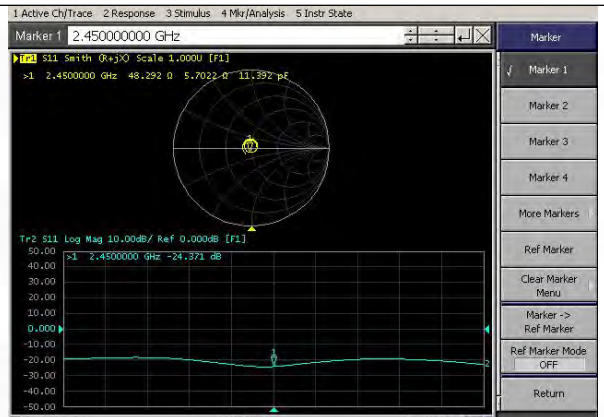
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
1900	-23.01	-20	51.0 Ω - 7.0 jΩ



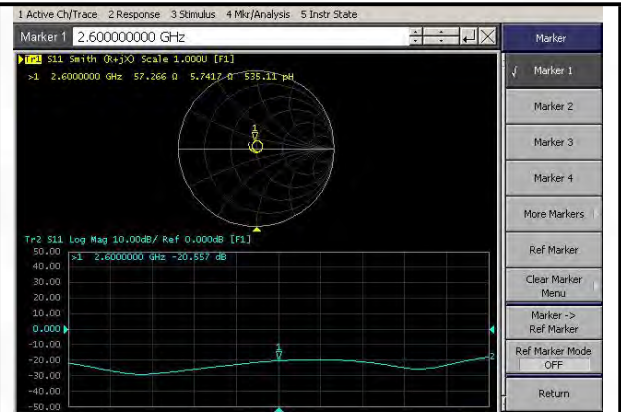
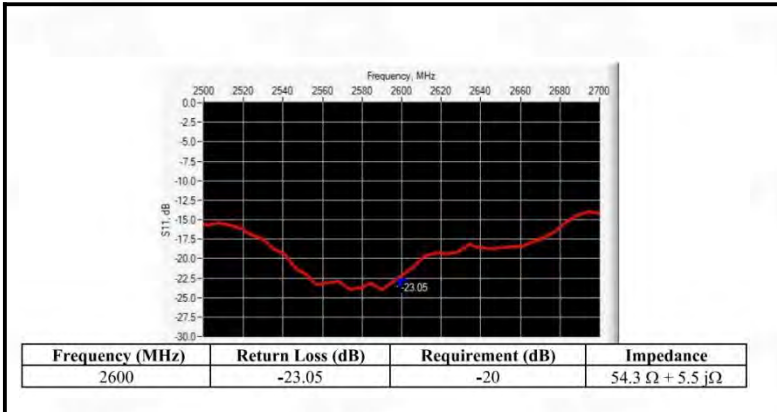
2450MHz Dipole



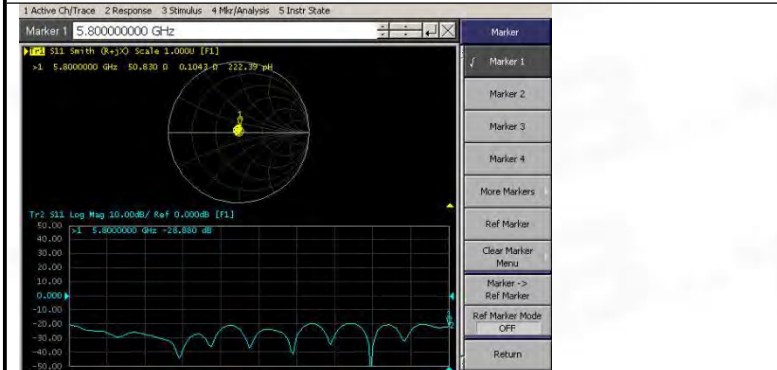
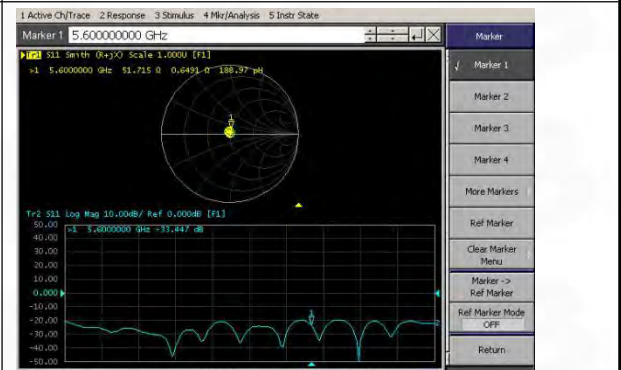
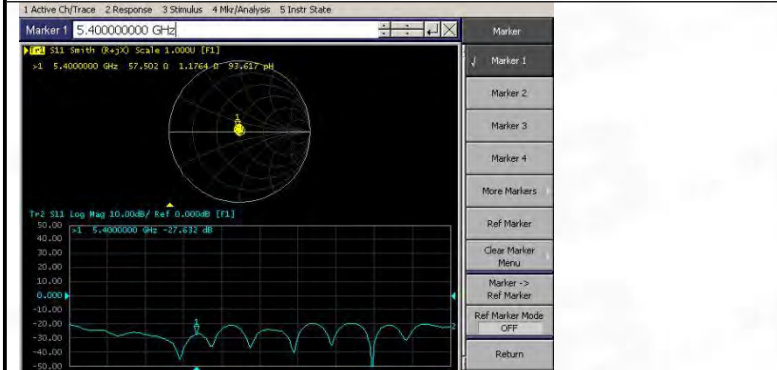
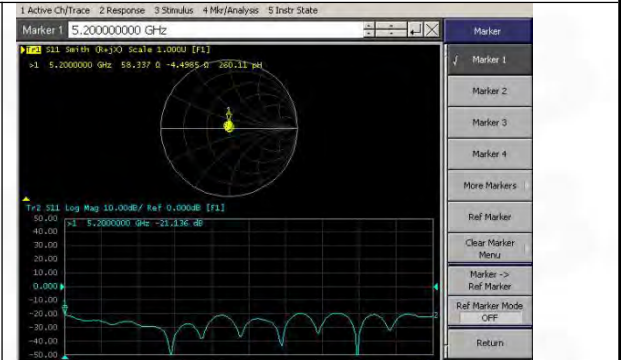
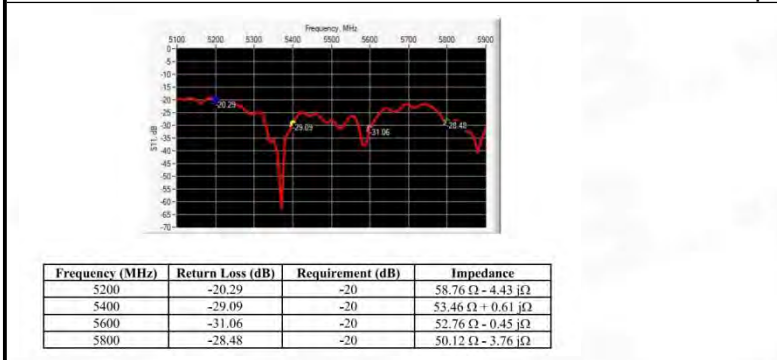
Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
2450	-21.23	-20	49.4 Ω + 8.6 jΩ



2600MHz Dipole



5000MHz Dipole



System Performance Check Data (750 MHz)

System check at 750 MHz

Date of measurement: 9/8/2024

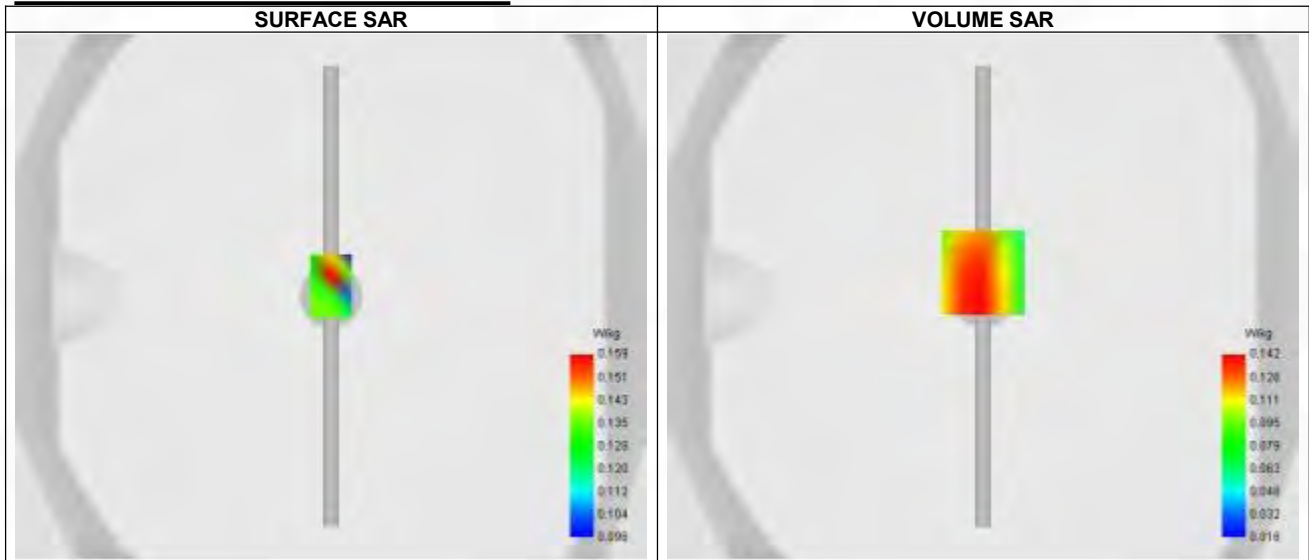
A. Experimental conditions.

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



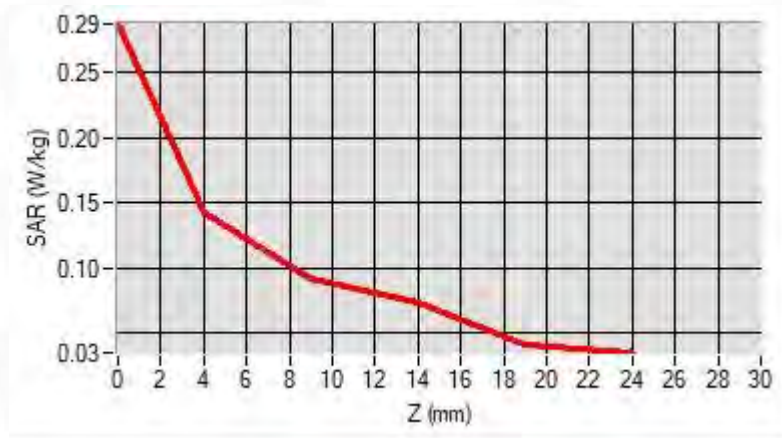
Maximum location: X=0.00, Y=9.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

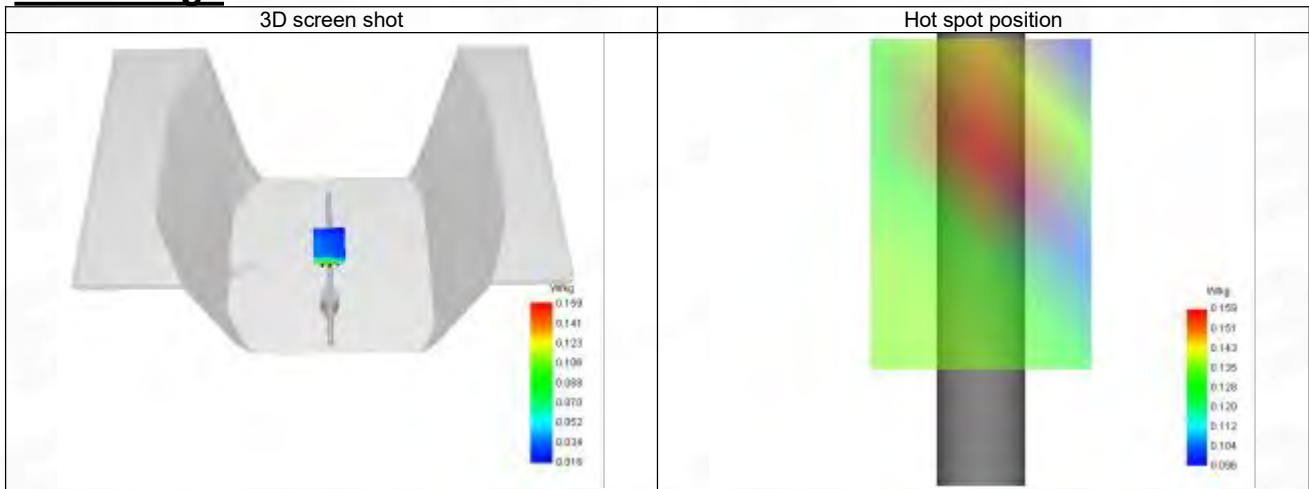
SAR 10g (W/Kg)	0.092
SAR 1g (W/Kg)	0.138
Variation (%)	-2.190
Horizontal validation criteria: minimum distance (mm)	8.578
Vertical validation criteria: SAR ratio M2/M1 (%)	64.79%

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: 14/8/2024

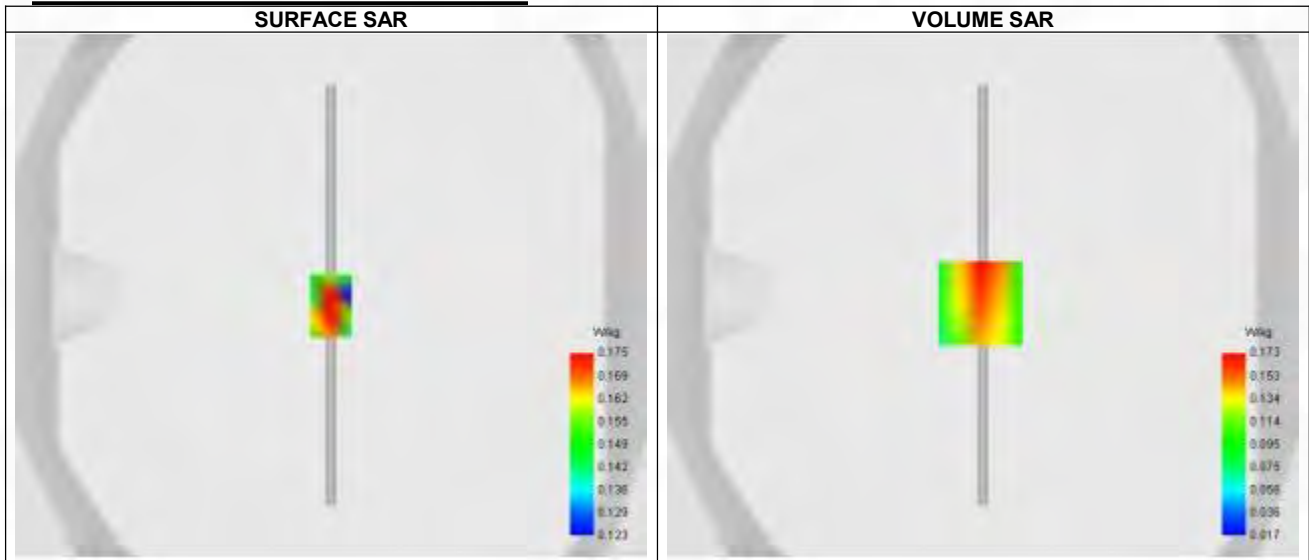
A. Experimental conditions.

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

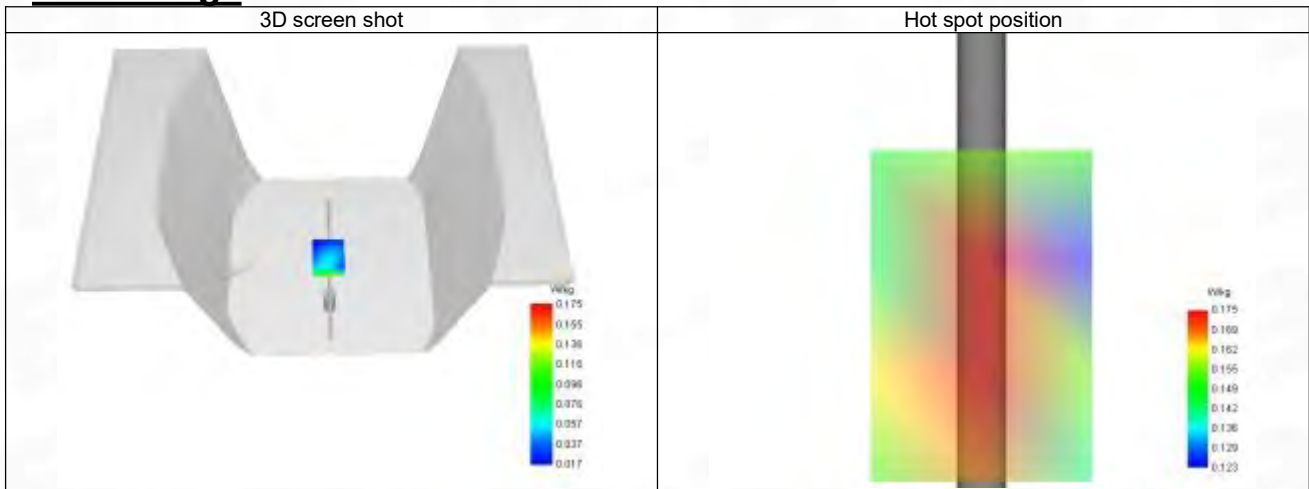
SAR 10g (W/Kg)	0.106
SAR 1g (W/Kg)	0.163
Variation (%)	-3.390
Horizontal validation criteria: minimum distance (mm)	8.961
Vertical validation criteria: SAR ratio M2/M1 (%)	66.47%

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: 16/8/2024

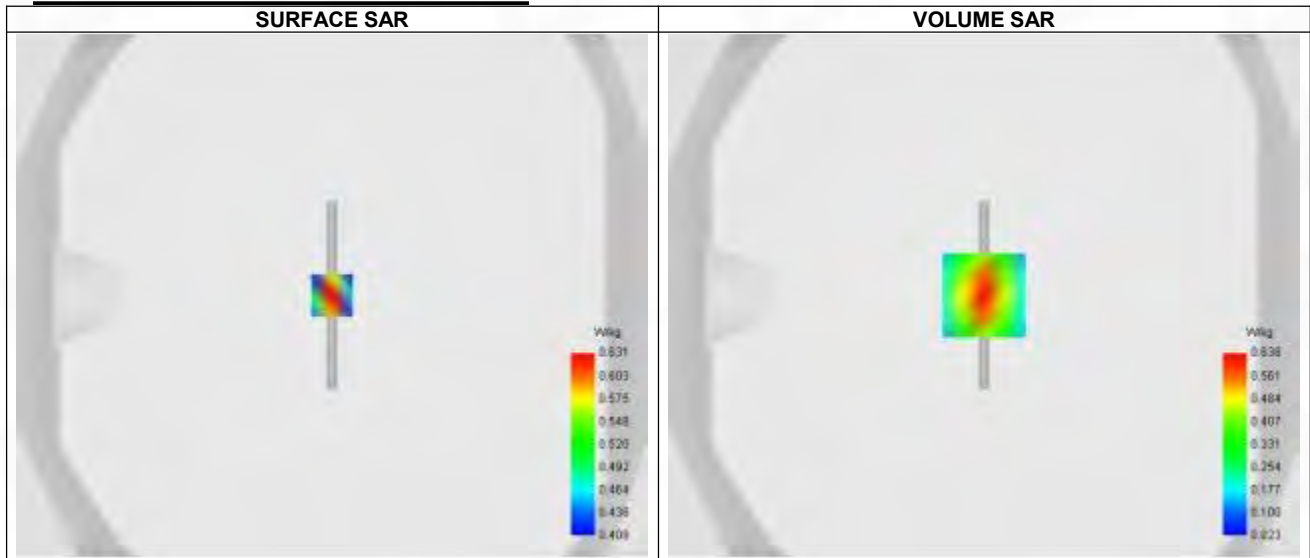
A. Experimental conditions.

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



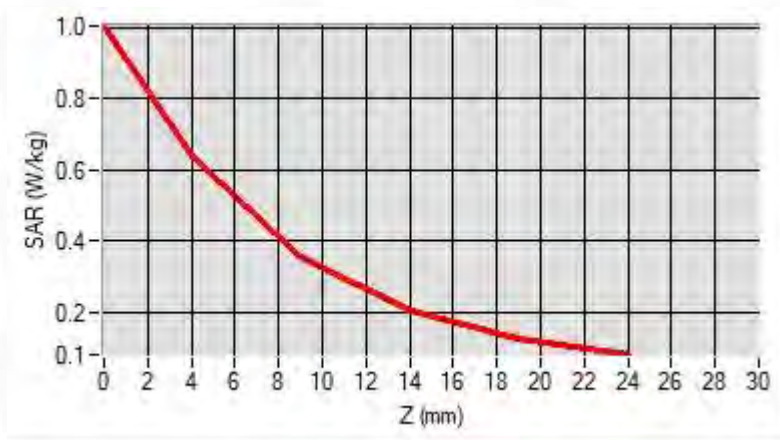
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.00 W/kg

D. SAR 1g & 10g

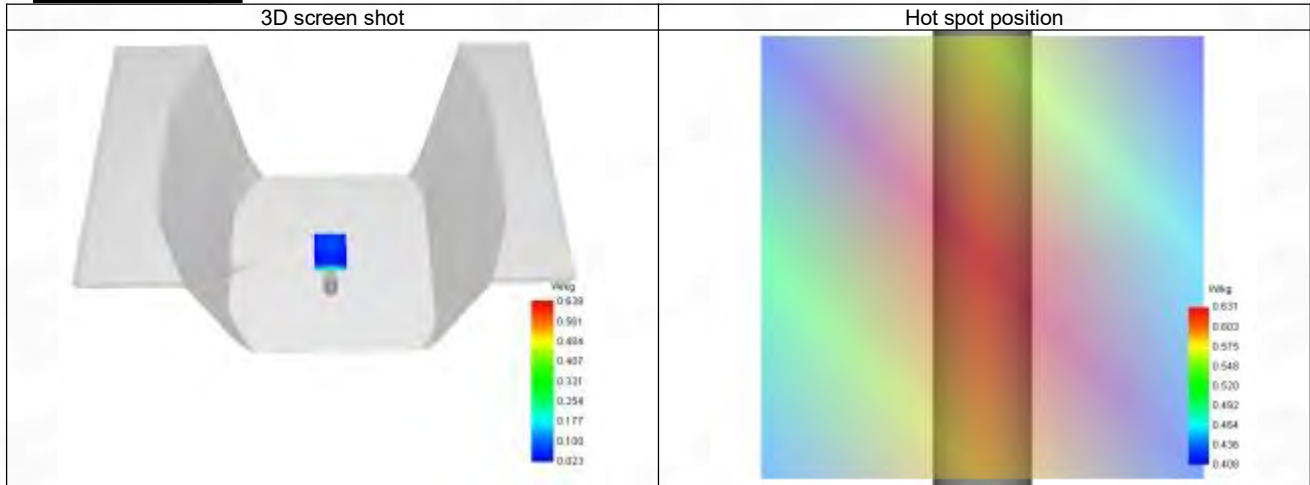
SAR 10g (W/Kg)	0.312
SAR 1g (W/Kg)	0.588
Variation (%)	-0.250
Horizontal validation criteria: minimum distance (mm)	9.145
Vertical validation criteria: SAR ratio M2/M1 (%)	55.80%

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: 20/8/2024

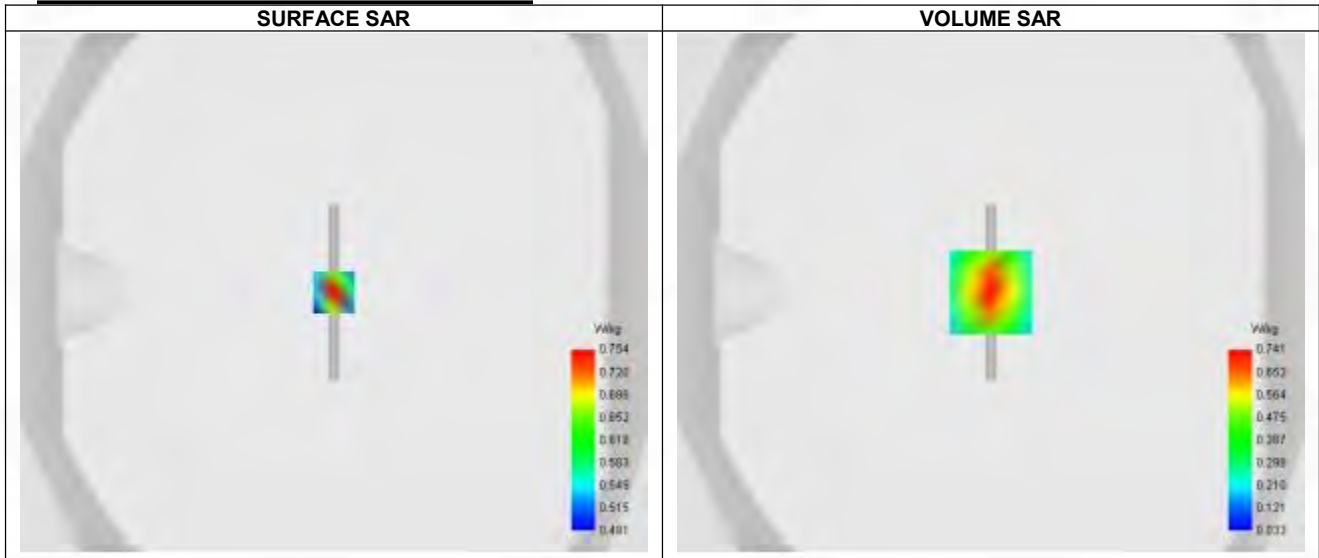
A. Experimental conditions.

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



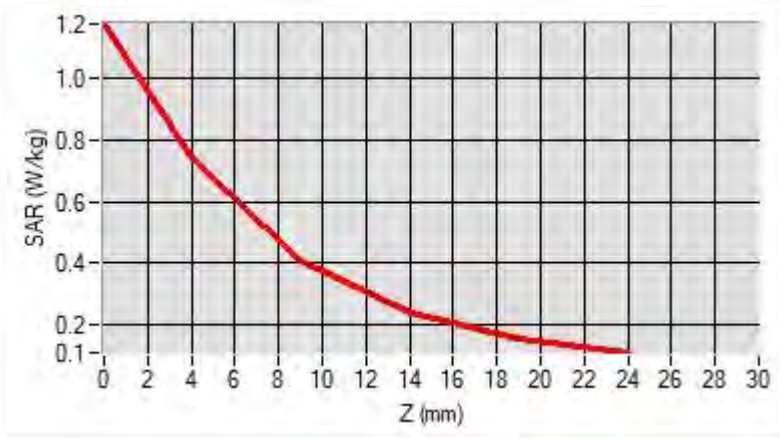
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.18 W/kg

D. SAR 1g & 10g

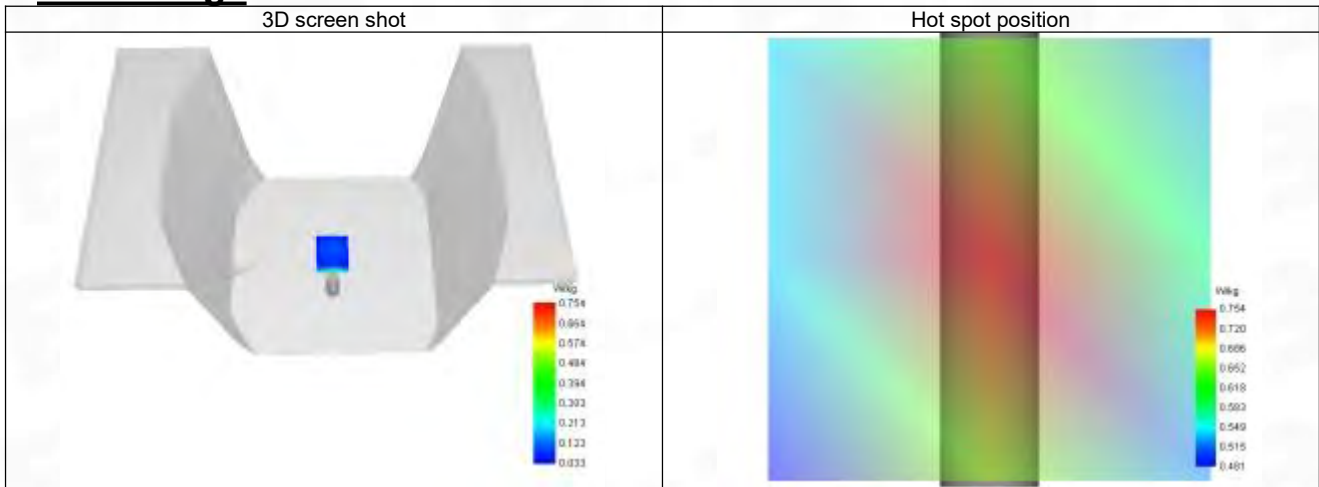
SAR 10g (W/Kg)	0.322
SAR 1g (W/Kg)	0.630
Variation (%)	-2.080
Horizontal validation criteria: minimum distance (mm)	9.256
Vertical validation criteria: SAR ratio M2/M1 (%)	52.96%

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: 22/8/2024

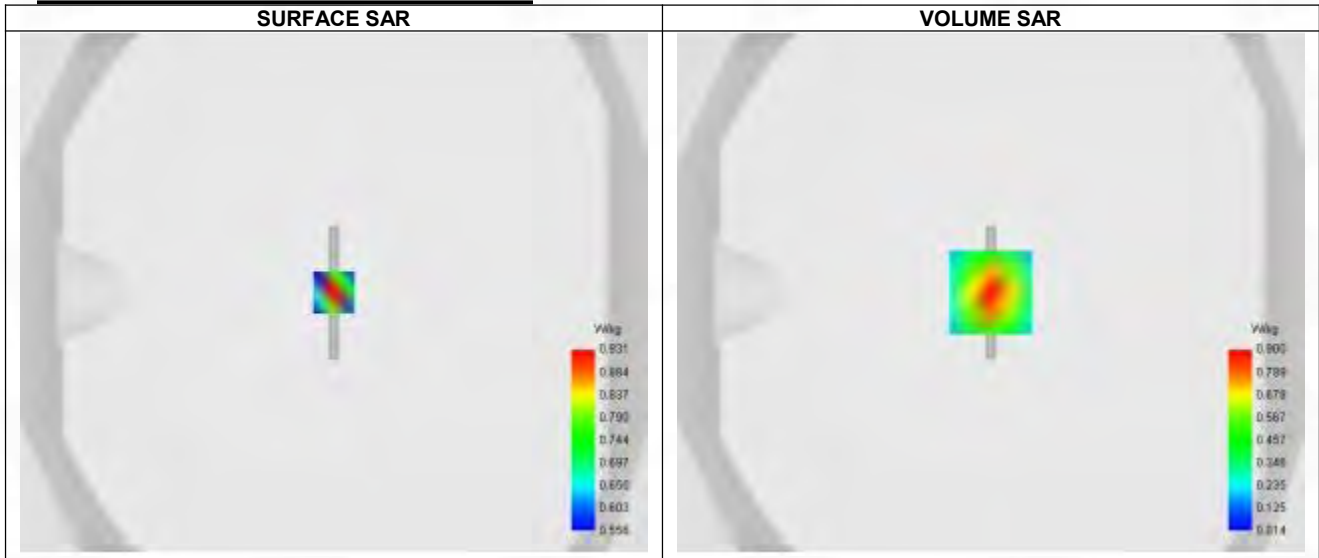
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.36
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm 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



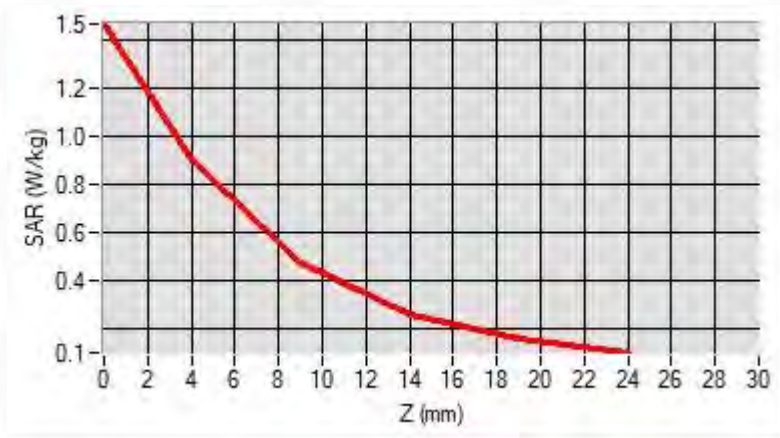
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.47 W/kg

D. SAR 1g & 10g

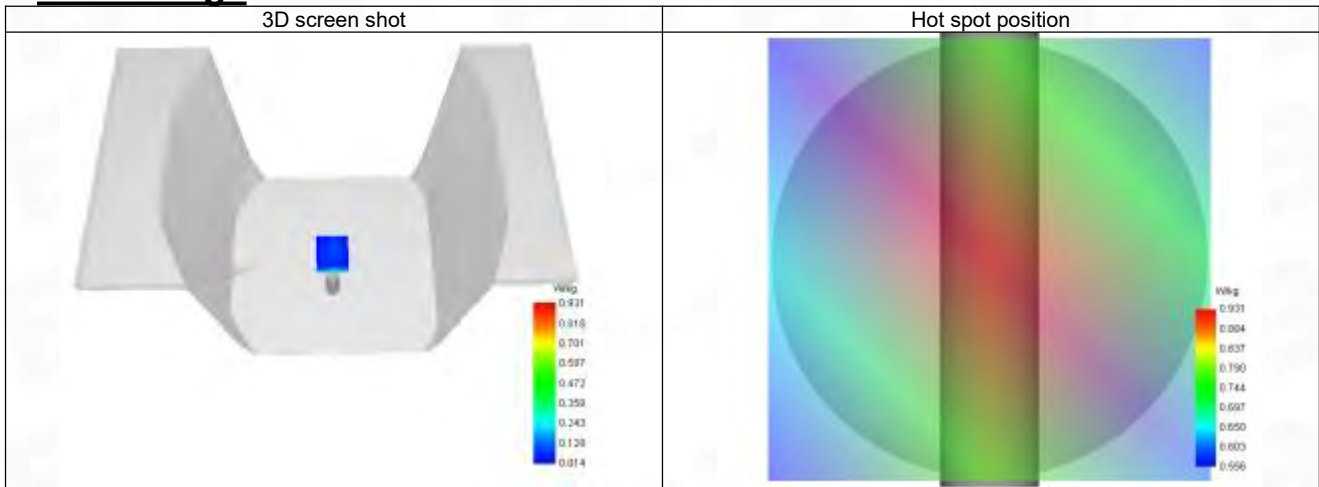
SAR 10g (W/Kg)	0.352
SAR 1g (W/Kg)	0.793
Variation (%)	-2.570
Horizontal validation criteria: minimum distance (mm)	8.626
Vertical validation criteria: SAR ratio M2/M1 (%)	53.00%

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: 23/8/2024

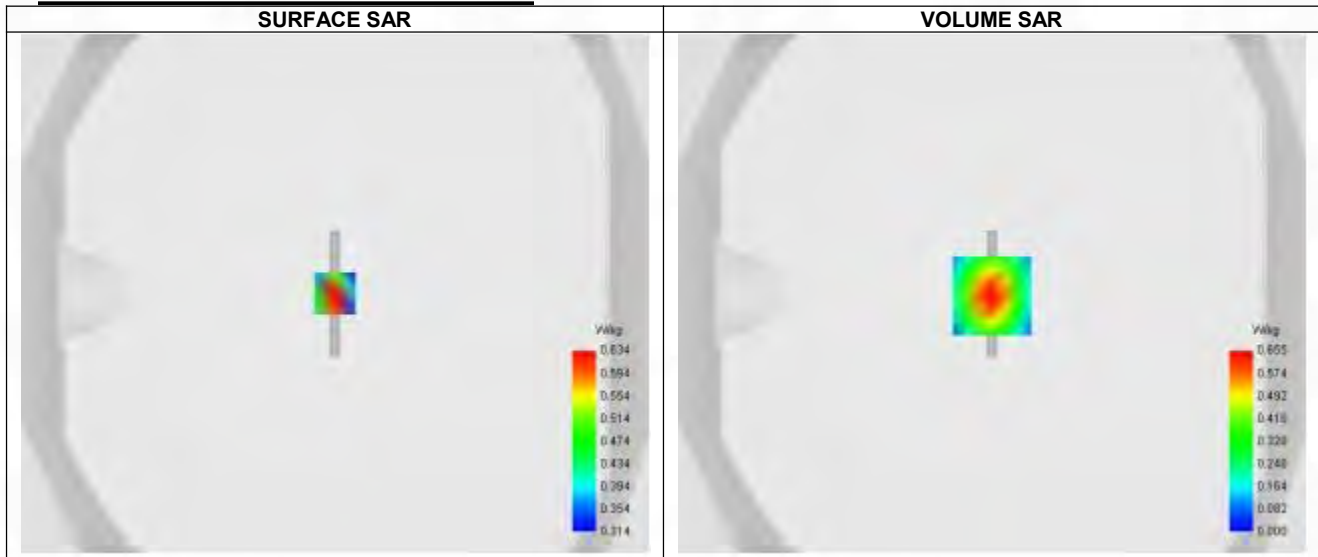
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.40
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm 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



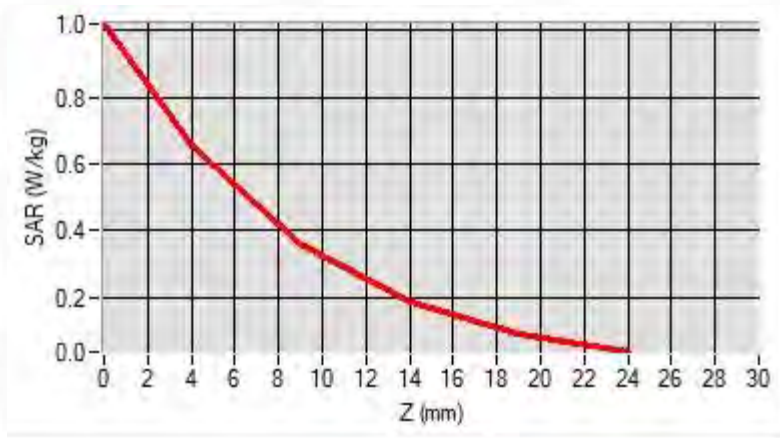
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 1.02 W/kg

D. SAR 1g & 10g

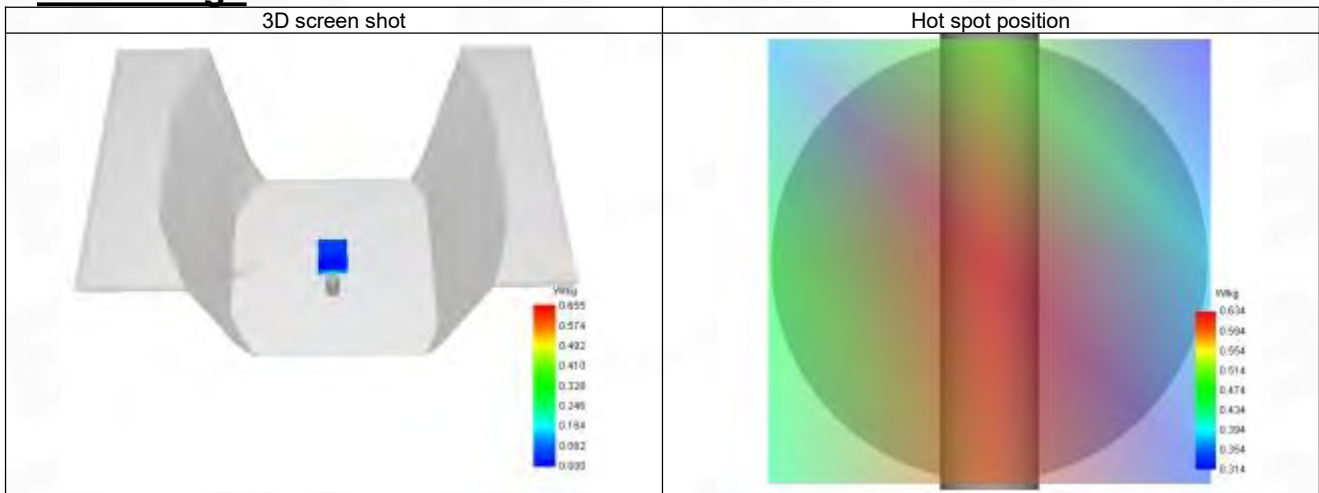
SAR 10g (W/Kg)	0.421
SAR 1g (W/Kg)	0.866
Variation (%)	2.980
Horizontal validation criteria: minimum distance (mm)	8.947
Vertical validation criteria: SAR ratio M2/M1 (%)	54.81%

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: 26/8/2024

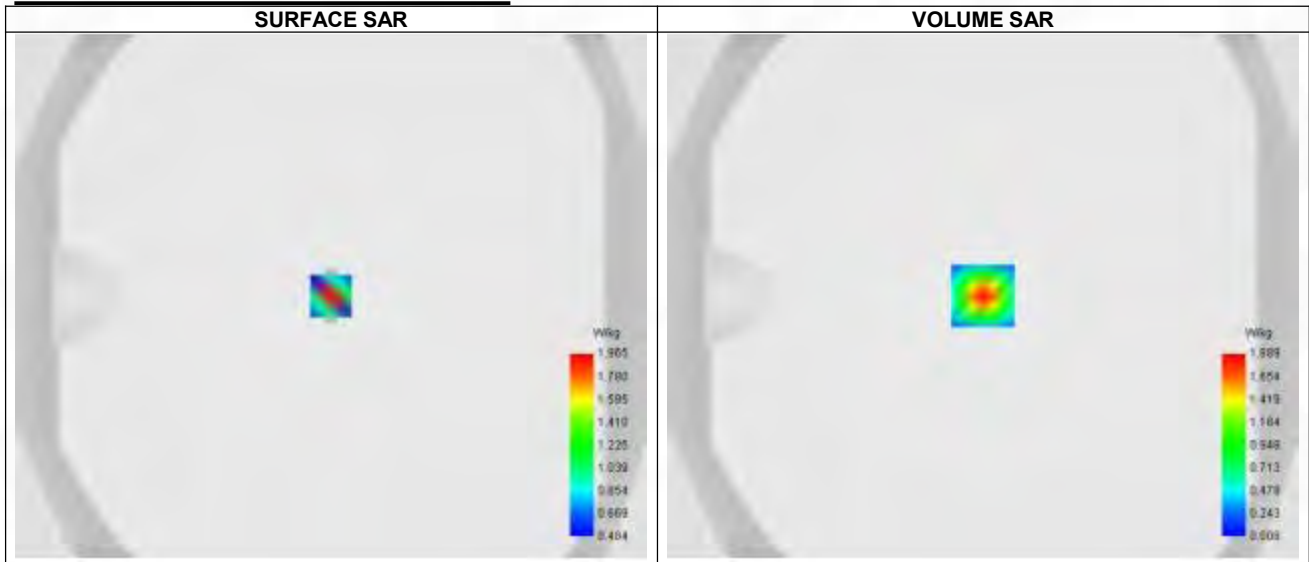
A. Experimental conditions.

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



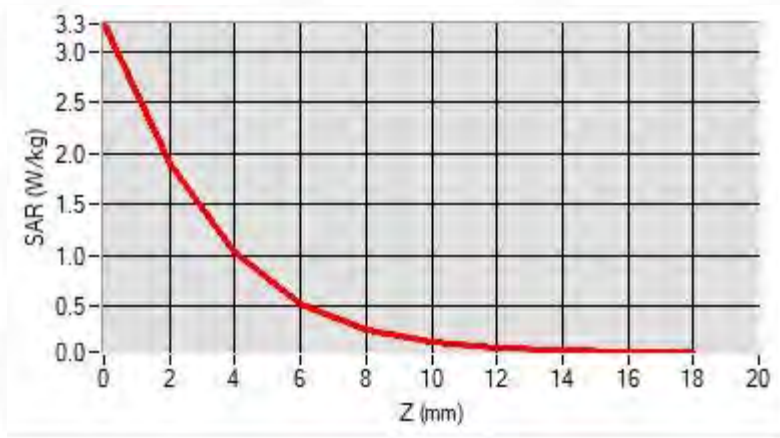
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 3.38 W/kg

D. SAR 1g & 10g

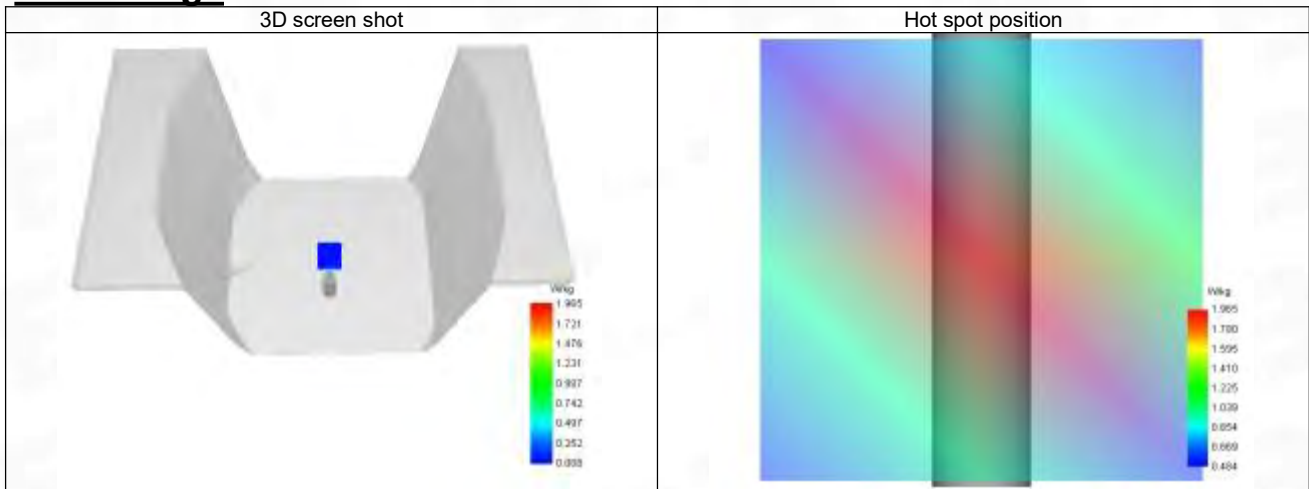
SAR 10g (W/Kg)	0.288
SAR 1g (W/Kg)	1.019
Variation (%)	-3.400
Horizontal validation criteria: minimum distance (mm)	6.287
Vertical validation criteria: SAR ratio M2/M1 (%)	54.05%

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 (5400 MHz)

System check at 5400 MHz

Date of measurement: 26/8/2024

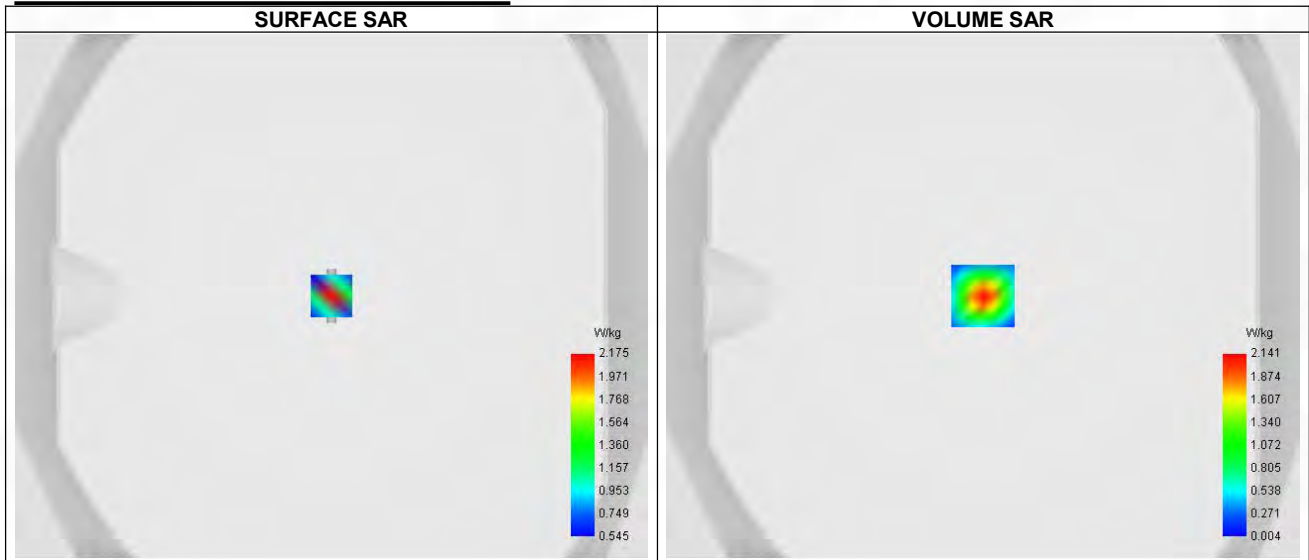
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.12
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	CW5400
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	5400.000
Relative permittivity (real part)	35.680
Relative permittivity (imaginary part)	16.320
Conductivity (S/m)	4.900

C. SAR Surface and Volume



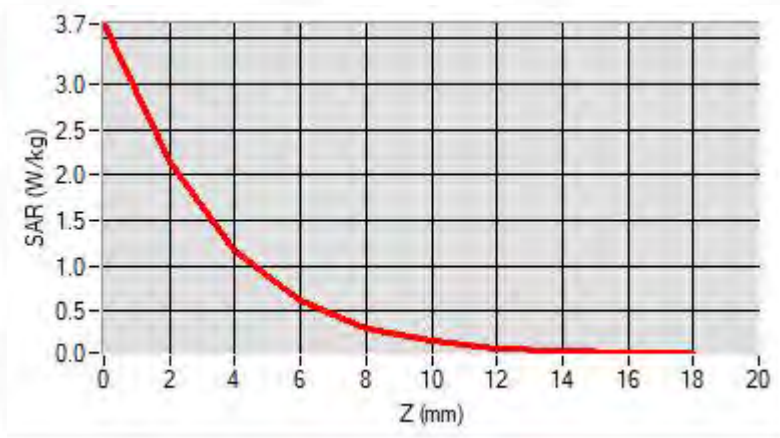
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 3.78 W/kg

D. SAR 1g & 10g

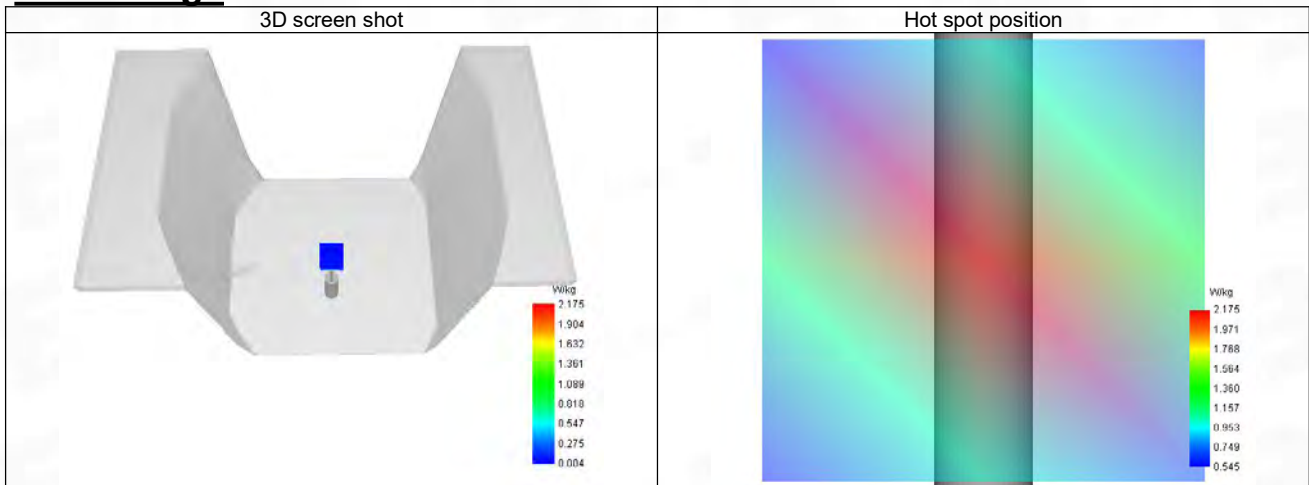
SAR 10g (W/Kg)	0.299
SAR 1g (W/Kg)	1.051
Variation (%)	-4.610
Horizontal validation criteria: minimum distance (mm)	6.274
Vertical validation criteria: SAR ratio M2/M1 (%)	54.97%

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)	3.660	2.141	1.177	0.614	0.317	0.169	0.098	0.065	0.050



F. 3D Image



System Performance Check Data (5600 MHz)

System check at 5600 MHz

Date of measurement: 27/8/2024

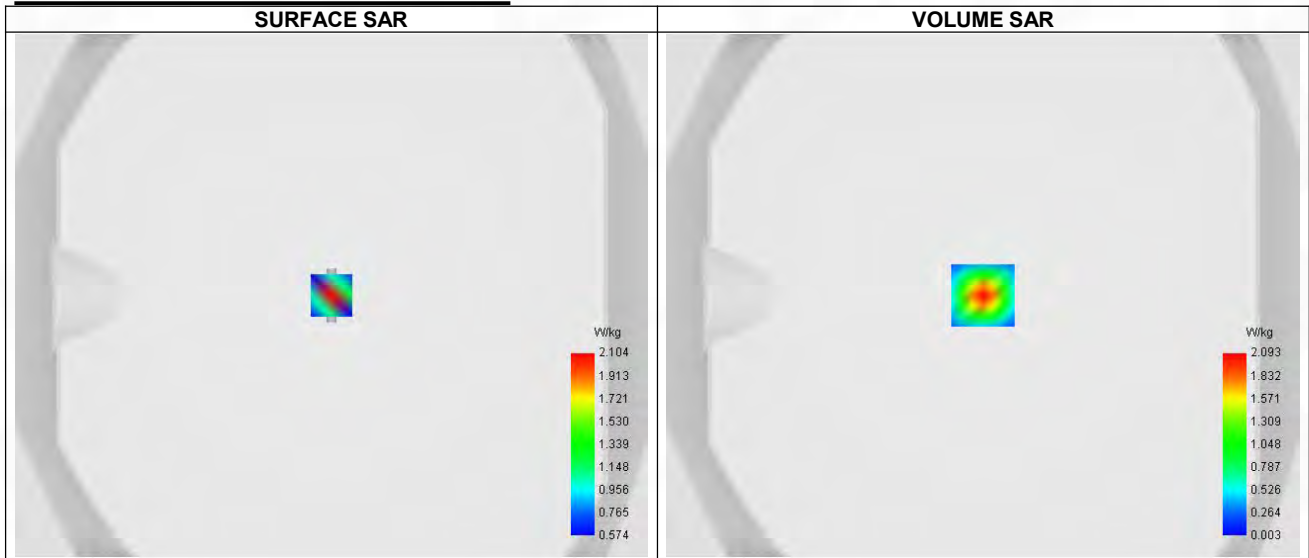
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.18
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	CW5600
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	5600.000
Relative permittivity (real part)	35.380
Relative permittivity (imaginary part)	16.420
Conductivity (S/m)	5.110

C. SAR Surface and Volume



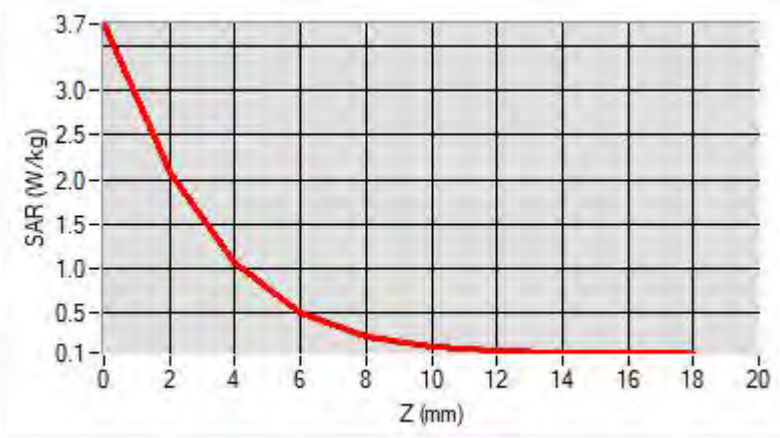
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 3.90 W/kg

D. SAR 1g & 10g

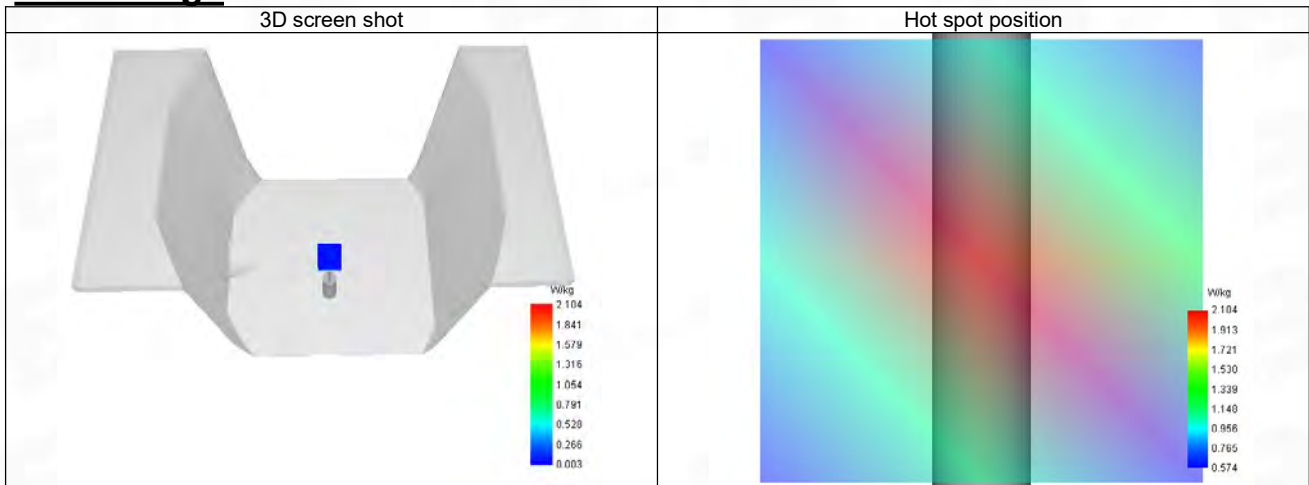
SAR 10g (W/Kg)	0.304
SAR 1g (W/Kg)	1.084
Variation (%)	-0.190
Horizontal validation criteria: minimum distance (mm)	7.214
Vertical validation criteria: SAR ratio M2/M1 (%)	51.31%

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)	3.748	2.093	1.074	0.514	0.243	0.122	0.072	0.056	0.056



F. 3D Image



System Performance Check Data (5800 MHz)

System check at 5800 MHz

Date of measurement: 27/8/2024

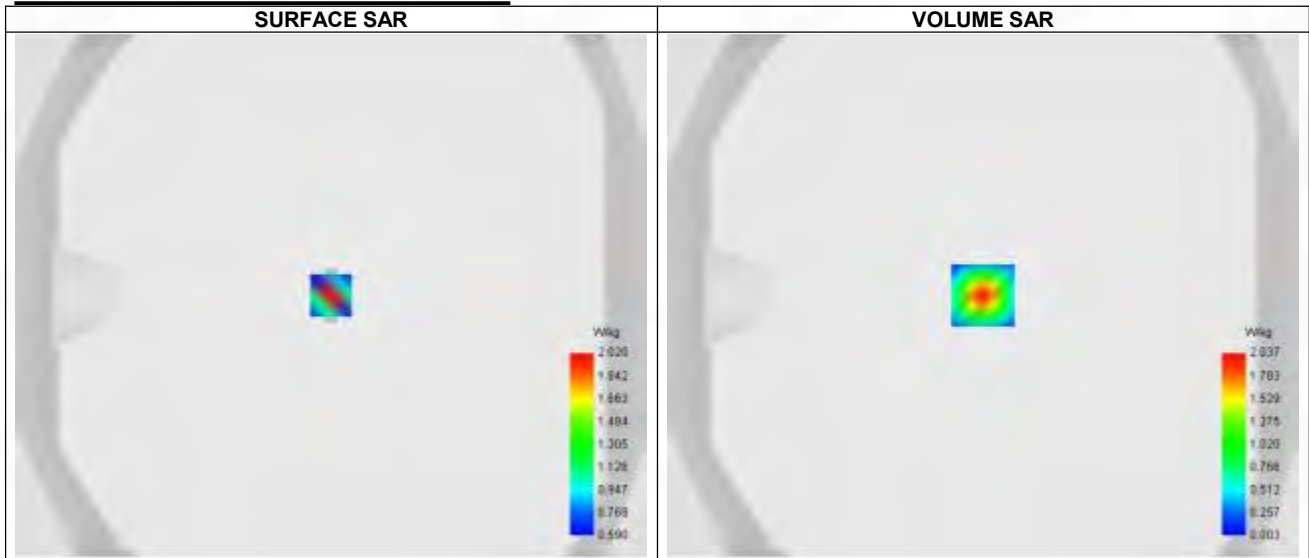
A. Experimental conditions.

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



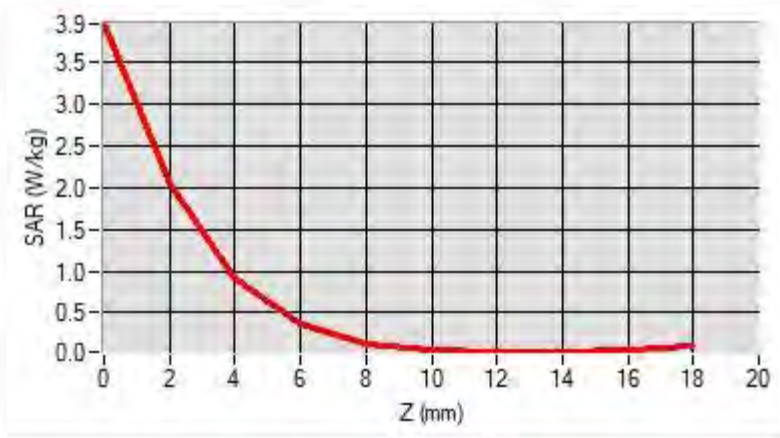
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 4.17 W/kg

D. SAR 1g & 10g

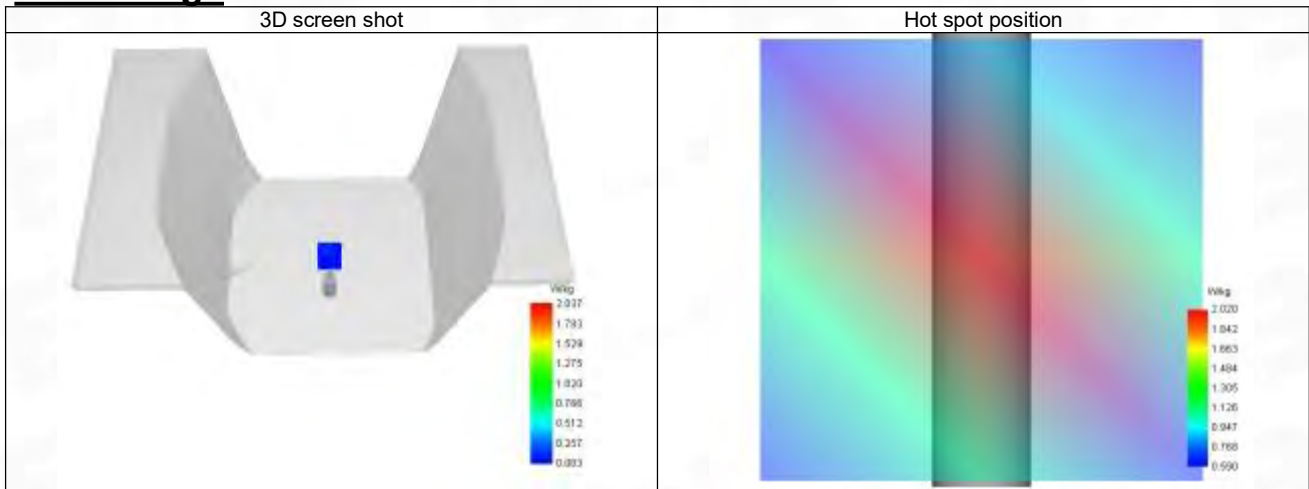
SAR 10g (W/Kg)	0.277
SAR 1g (W/Kg)	0.981
Variation (%)	0.490
Horizontal validation criteria: minimum distance (mm)	7.145
Vertical validation criteria: SAR ratio M2/M1 (%)	44.92%

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: 14/8/2024

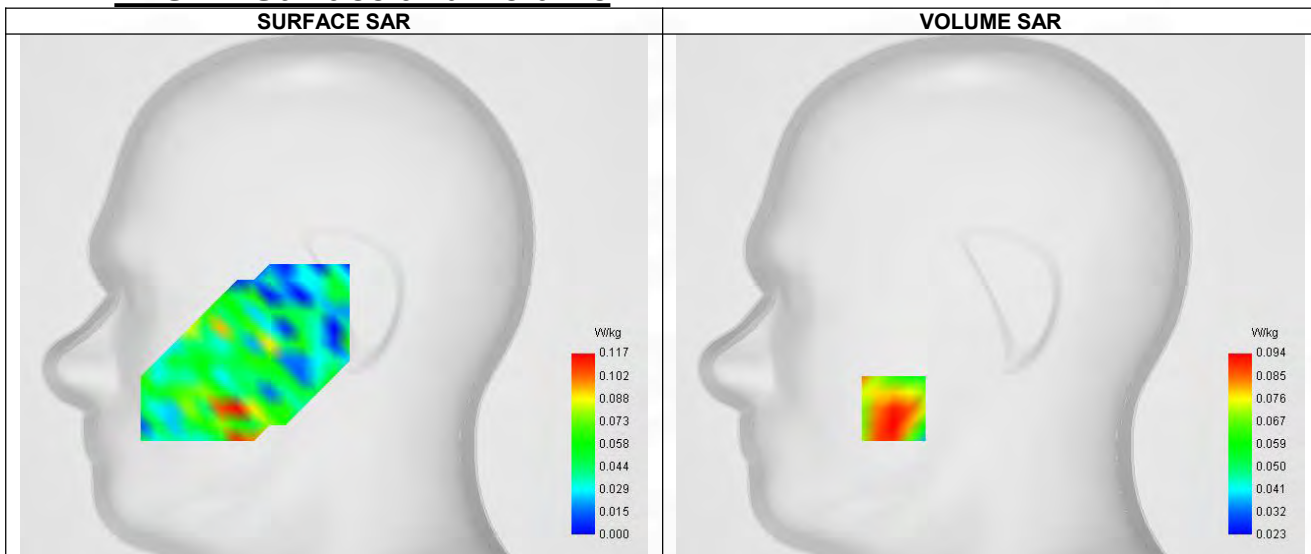
A. Experimental conditions.

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



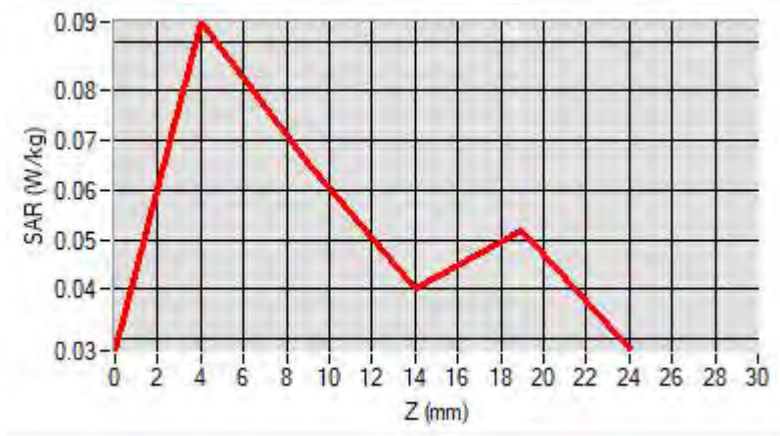
Maximum location: X=-48.00, Y=-56.00 ; SAR Peak: 0.16 W/kg

D. SAR 1g & 10g

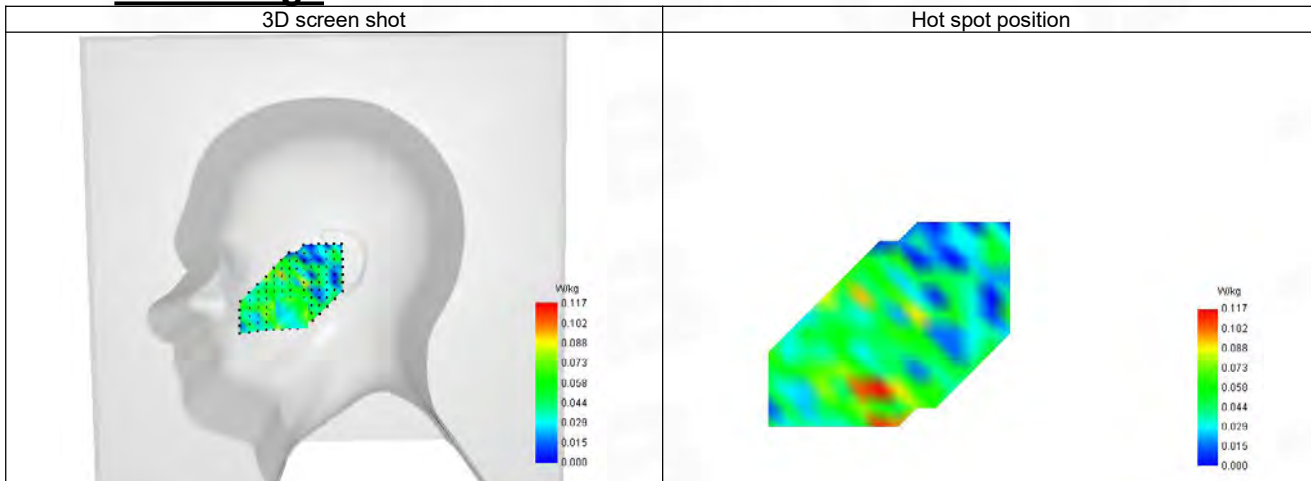
SAR 10g (W/Kg)	0.068
SAR 1g (W/Kg)	0.106
Variation (%)	-2.590
Horizontal validation criteria: minimum distance (mm)	8.644
Vertical validation criteria: SAR ratio M2/M1 (%)	70.21%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.028	0.094	0.066	0.040	0.052



F. 3D Image



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

SAR Measurement at GPRS850 (Body, Validation Plane)

Date of measurement: 14/8/2024

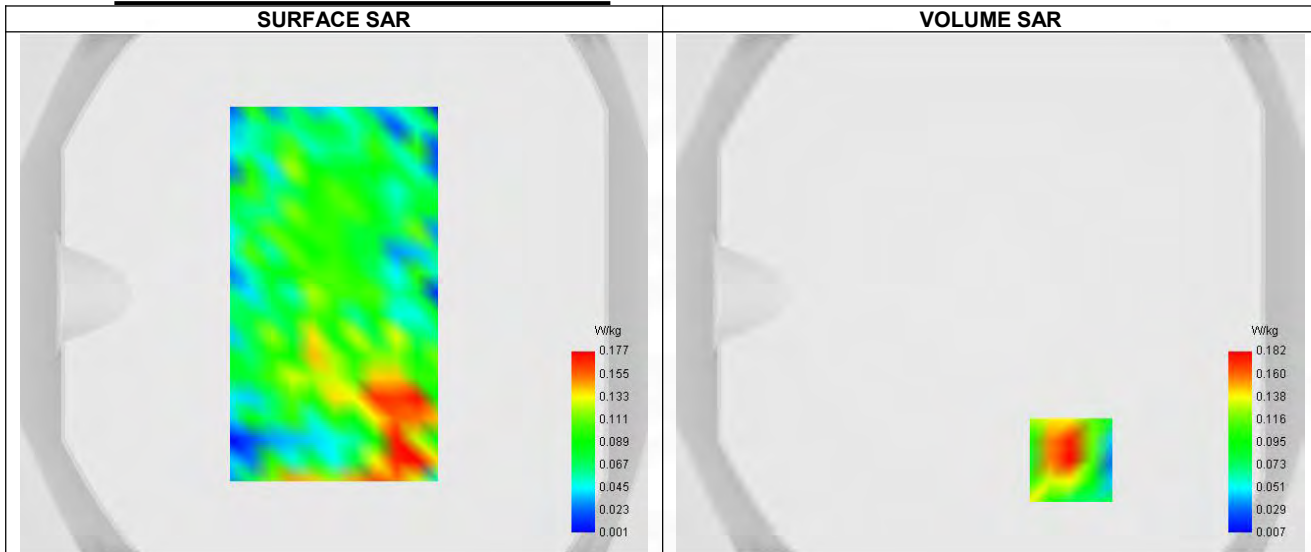
A. Experimental conditions.

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	2

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



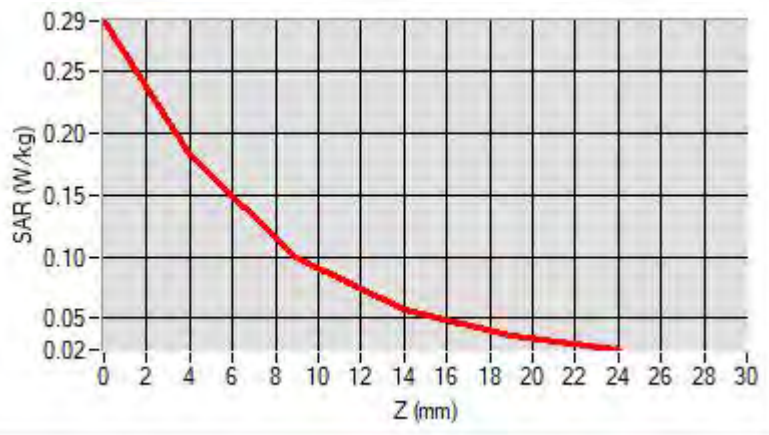
Maximum location: X=31.00, Y=-64.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

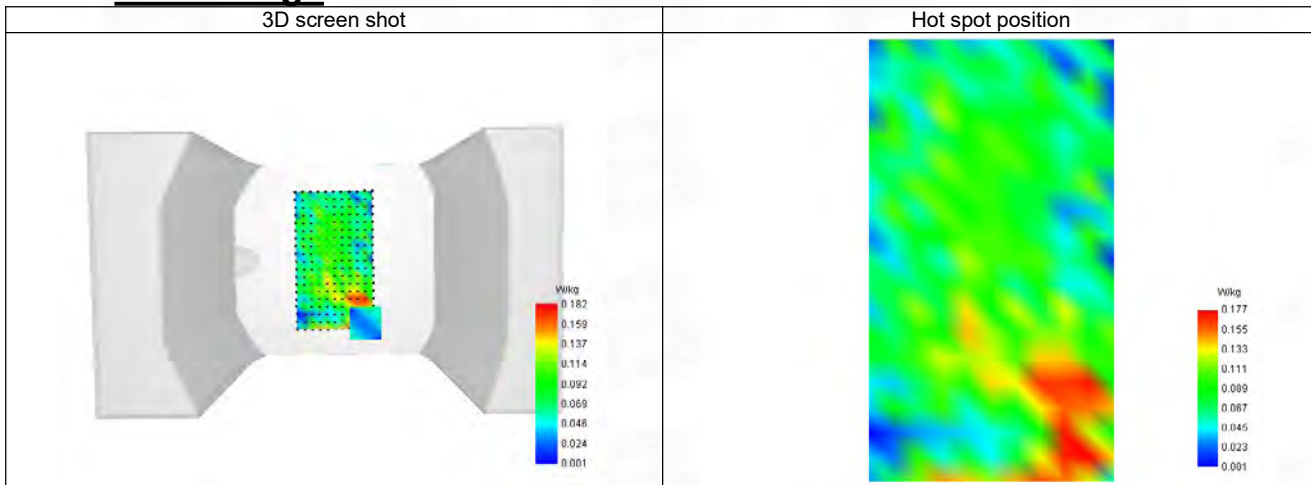
SAR 10g (W/Kg)	0.113
SAR 1g (W/Kg)	0.196
Variation (%)	3.560
Horizontal validation criteria: minimum distance (mm)	8.656
Vertical validation criteria: SAR ratio M2/M1 (%)	54.95%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.290	0.182	0.100	0.057	0.037



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: 20/8/2024

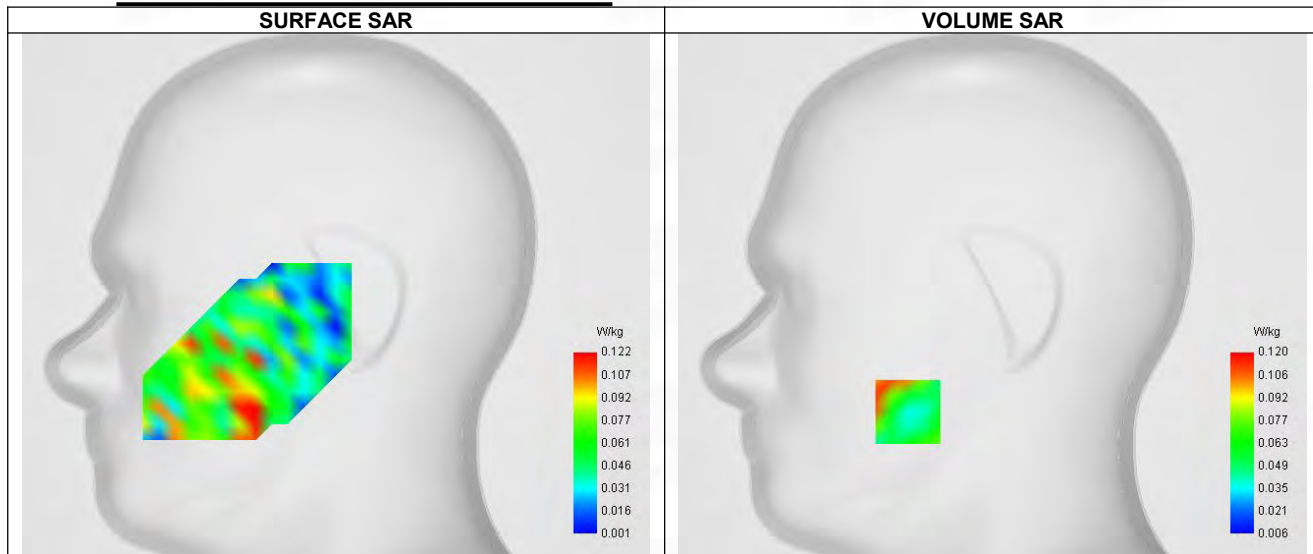
A. Experimental conditions.

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	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



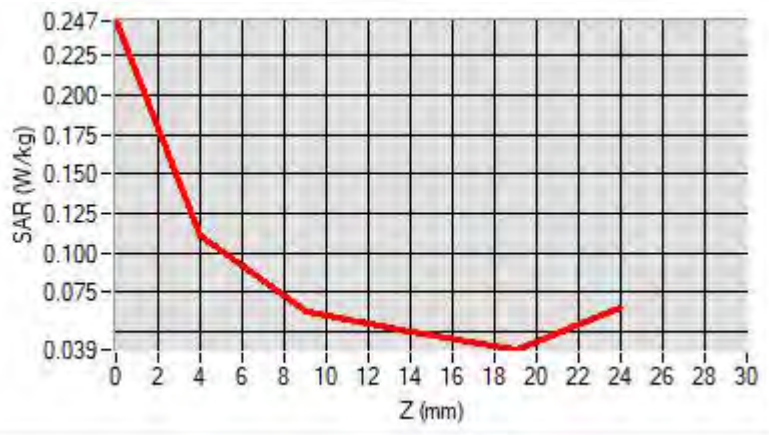
Maximum location: X=-42.00, Y=-58.00 ; SAR Peak: 0.21 W/kg

D. SAR 1g & 10g

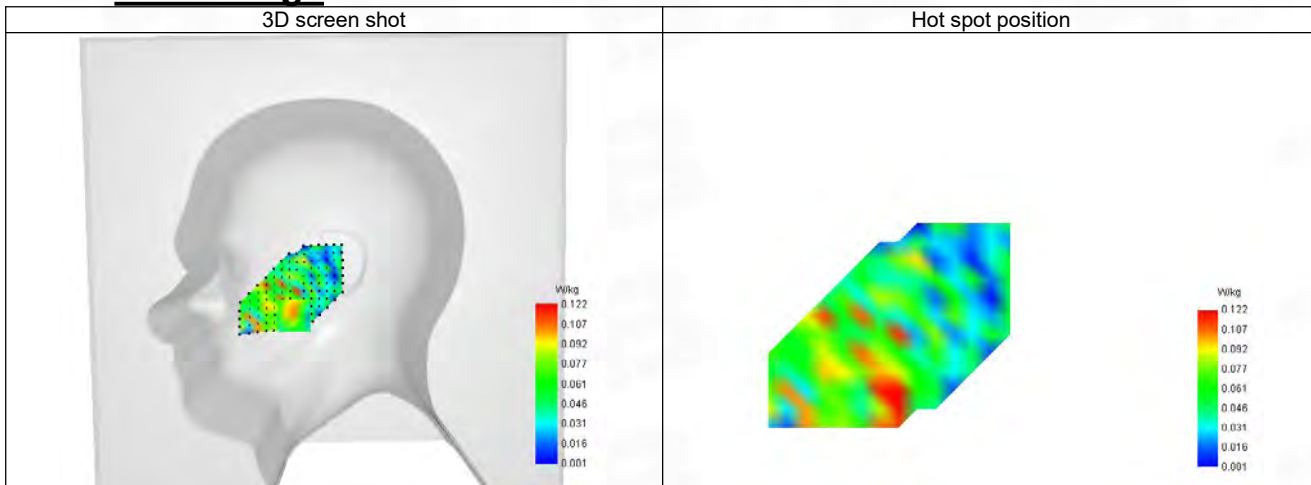
SAR 10g (W/Kg)	0.092
SAR 1g (W/Kg)	0.109
Variation (%)	2.590
Horizontal validation criteria: minimum distance (mm)	9.543
Vertical validation criteria: SAR ratio M2/M1 (%)	56.76%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.247	0.111	0.063	0.051	0.039



F. 3D Image



4-Body with back position in dist. 10mm on Channel 810 in GPRS1900+2slots

SAR Measurement at GPRS1900 (Body, Validation Plane)

Date of measurement: 20/8/2024

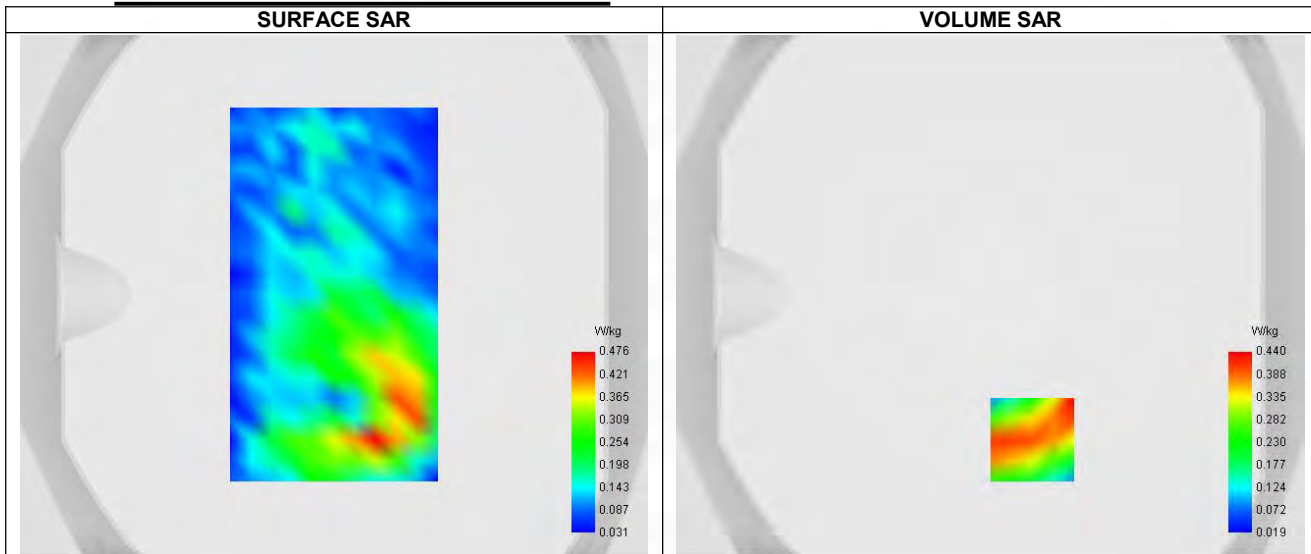
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.24
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	GPRS1900
Channels	Higher (810)
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	2

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



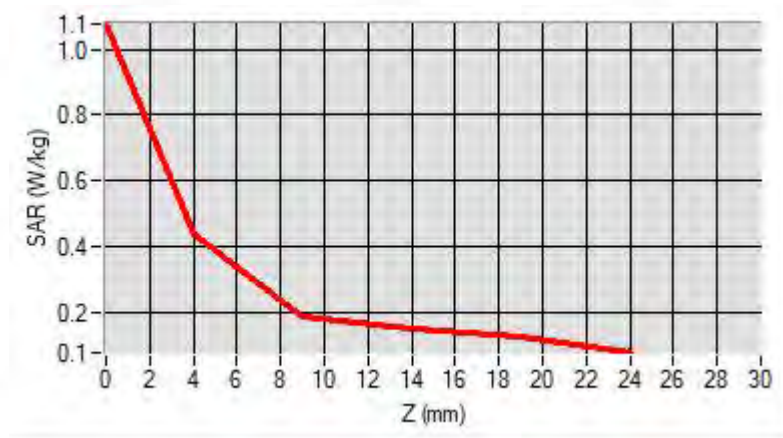
Maximum location: X=16.00, Y=-56.00 ; SAR Peak: 0.75 W/kg

D. SAR 1g & 10g

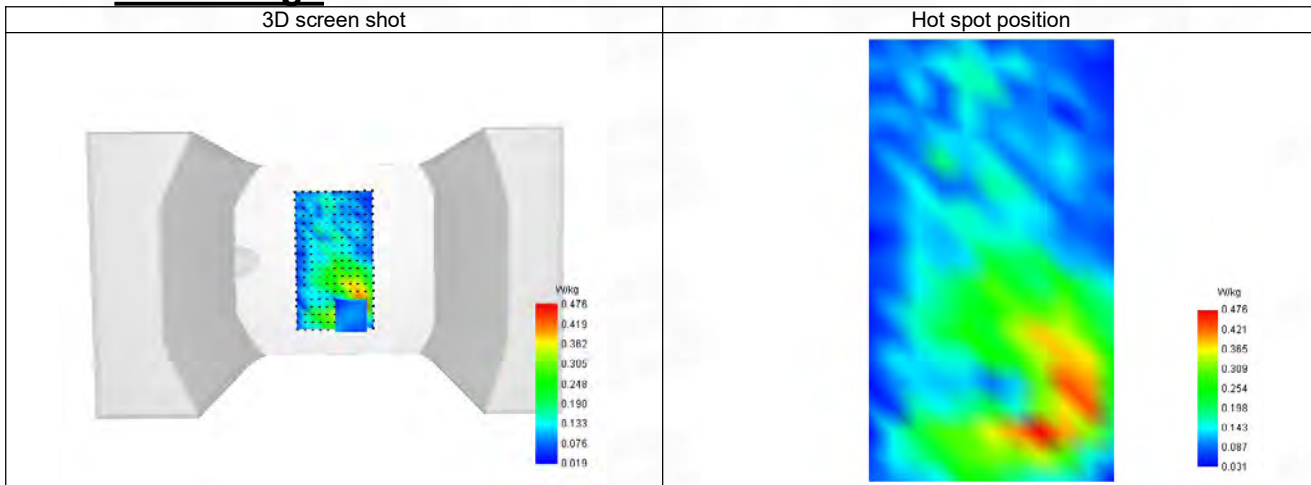
SAR 10g (W/Kg)	0.248
SAR 1g (W/Kg)	0.440
Variation (%)	-1.770
Horizontal validation criteria: minimum distance (mm)	9.565
Vertical validation criteria: SAR ratio M2/M1 (%)	42.50%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.076	0.440	0.187	0.155	0.127



F. 3D Image



5-Head with front position in dist. 0mm on Channel 9400 in WCDMA Band 2

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

Date of measurement: 20/8/2024

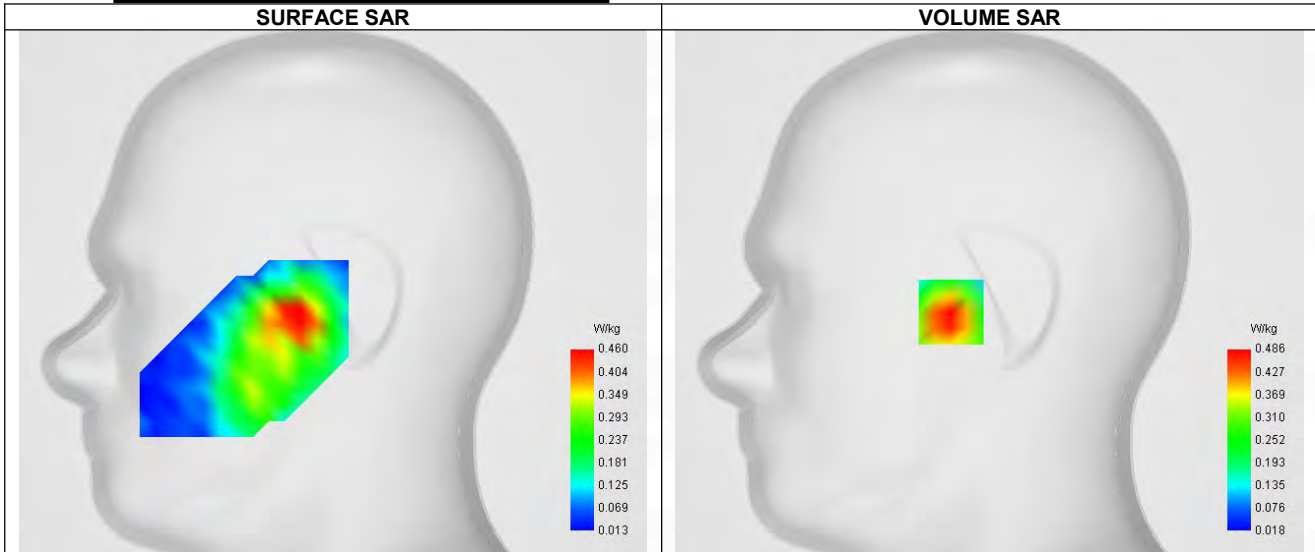
A. Experimental conditions.

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	Right head
Device Position	Cheek
Band	Band 2 (1900)
Channels	Middle (9400)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1880.000
Relative permittivity (real part)	39.886
Relative permittivity (imaginary part)	13.522
Conductivity (S/m)	1.402

C. SAR Surface and Volume



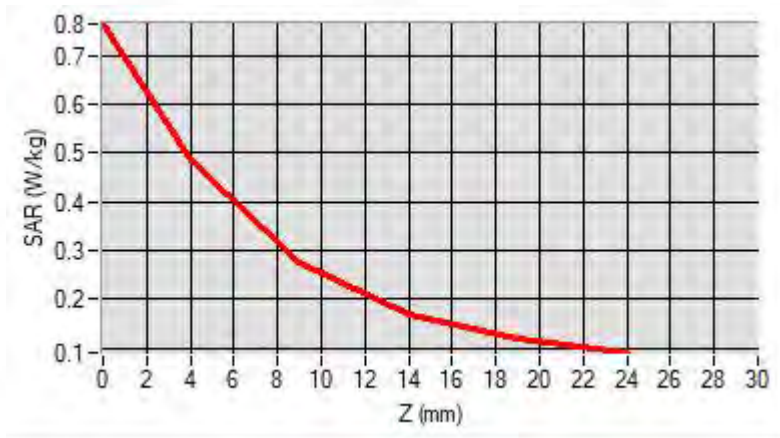
Maximum location: X=-19.00, Y=-10.00 ; SAR Peak: 0.77 W/kg

D. SAR 1g & 10g

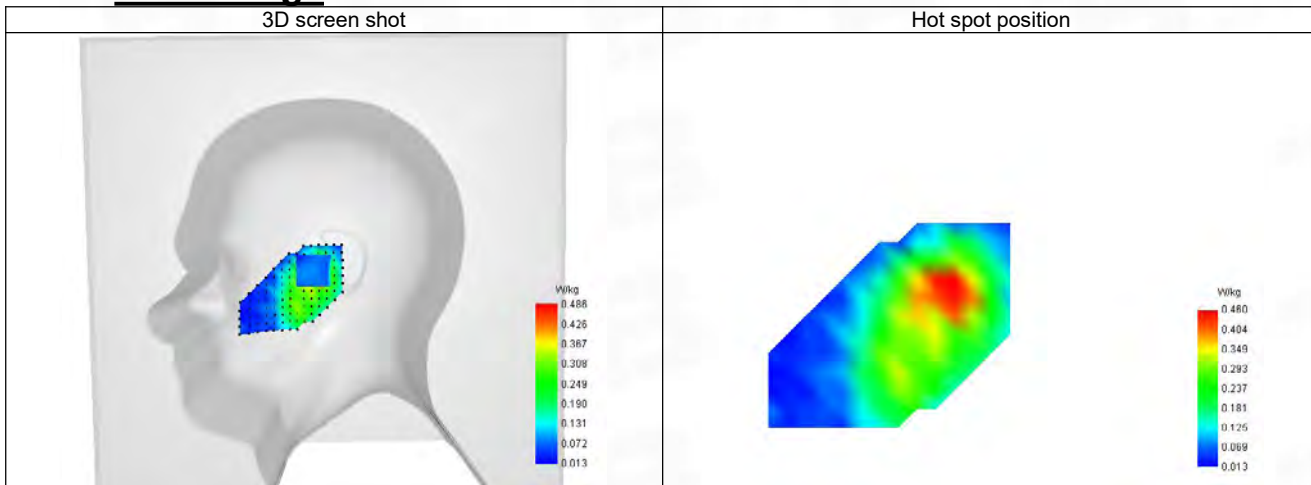
SAR 10g (W/Kg)	0.285
SAR 1g (W/Kg)	0.500
Variation (%)	4.030
Horizontal validation criteria: minimum distance (mm)	9.478
Vertical validation criteria: SAR ratio M2/M1 (%)	56.58%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.765	0.486	0.275	0.167	0.117



F. 3D Image



6-Body with back position in dist. 10mm on Channel 9400 in WCDMA Band 2

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

Date of measurement: 20/8/2024

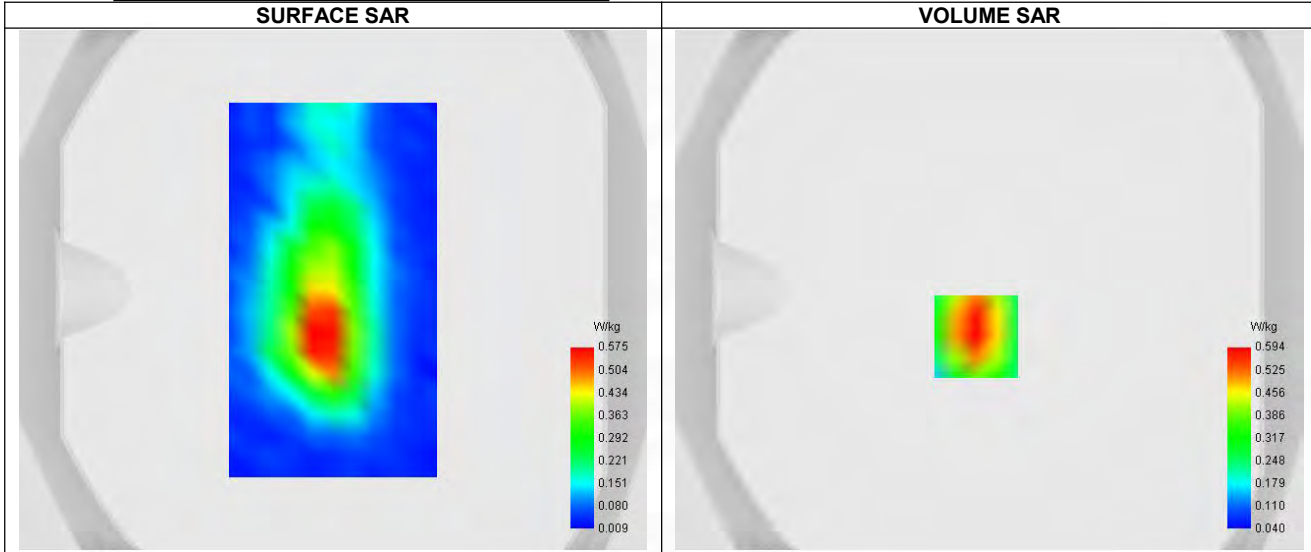
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	Body
Band	Band 2 (1900)
Channels	Middle (9400)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1880.000
Relative permittivity (real part)	39.886
Relative permittivity (imaginary part)	13.522
Conductivity (S/m)	1.402

C. SAR Surface and Volume

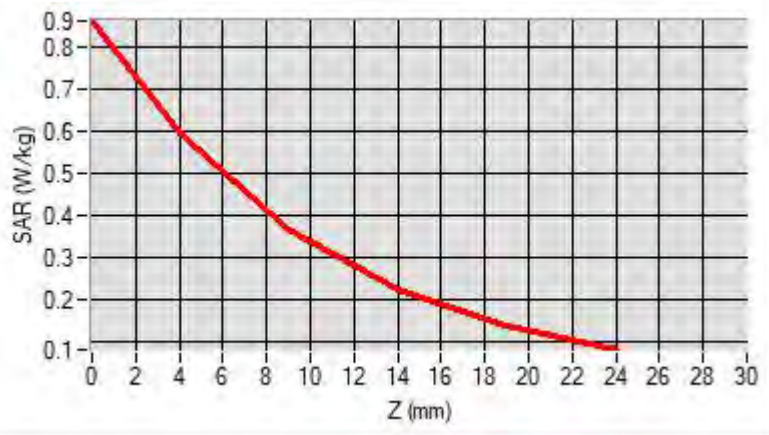


D. SAR 1g & 10g

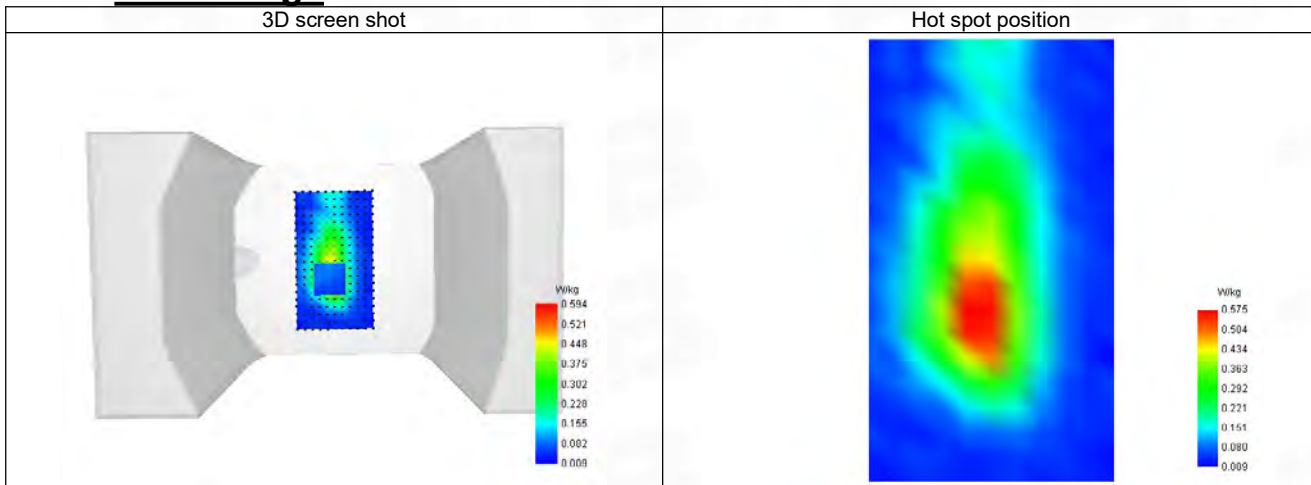
SAR 10g (W/Kg)	0.342
SAR 1g (W/Kg)	0.602
Variation (%)	0.820
Horizontal validation criteria: minimum distance (mm)	9.533
Vertical validation criteria: SAR ratio M2/M1 (%)	61.45%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.863	0.594	0.365	0.224	0.138



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: 16/8/2024

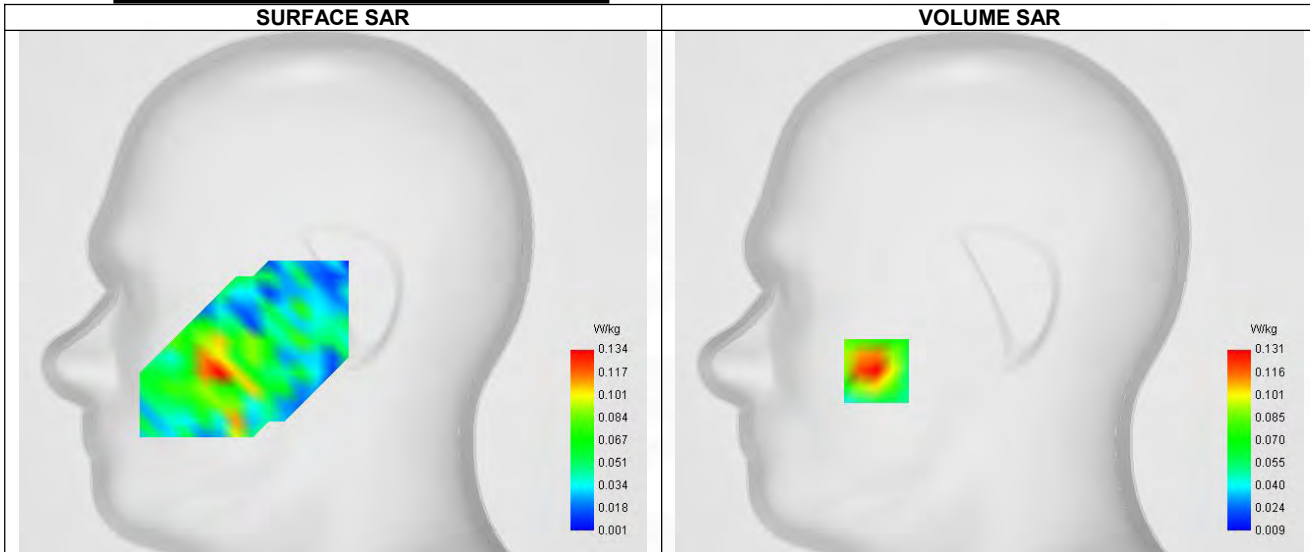
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.96
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



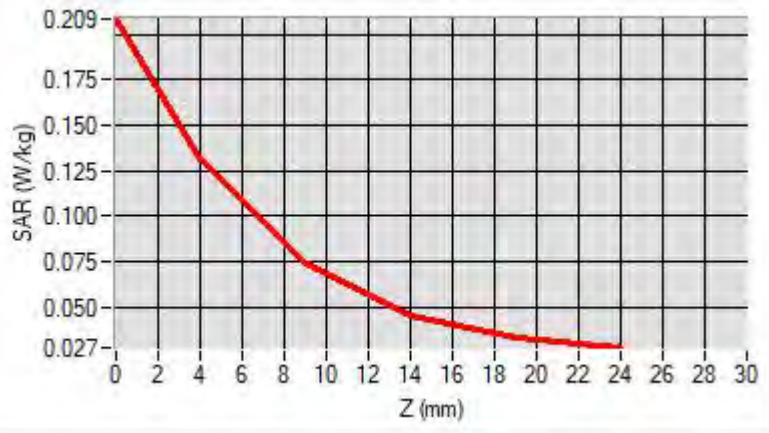
Maximum location: X=-56.00, Y=-39.00 ; SAR Peak: 0.21 W/kg

D. SAR 1g & 10g

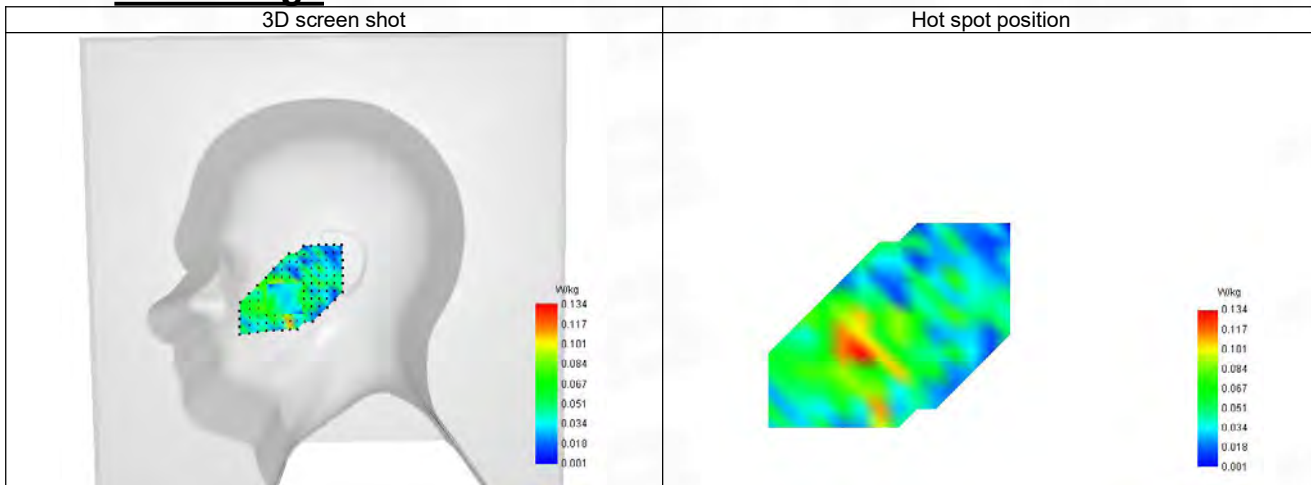
SAR 10g (W/Kg)	0.080
SAR 1g (W/Kg)	0.130
Variation (%)	1.700
Horizontal validation criteria: minimum distance (mm)	9.688
Vertical validation criteria: SAR ratio M2/M1 (%)	56.49%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.209	0.131	0.074	0.045	0.033



F. 3D Image



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

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

Date of measurement: 16/8/2024

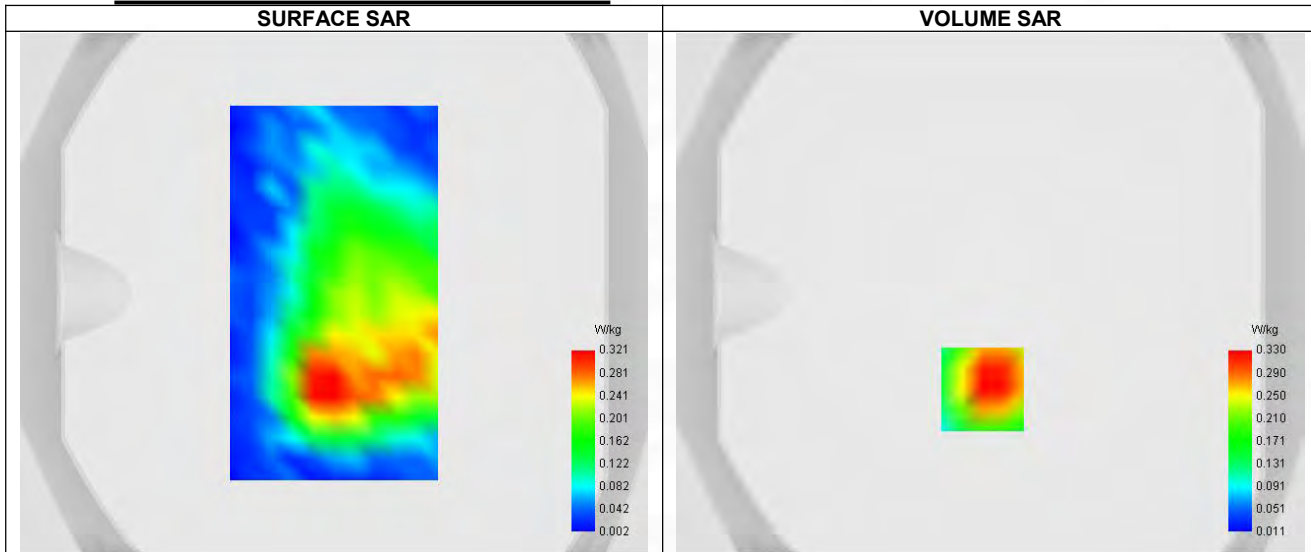
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	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



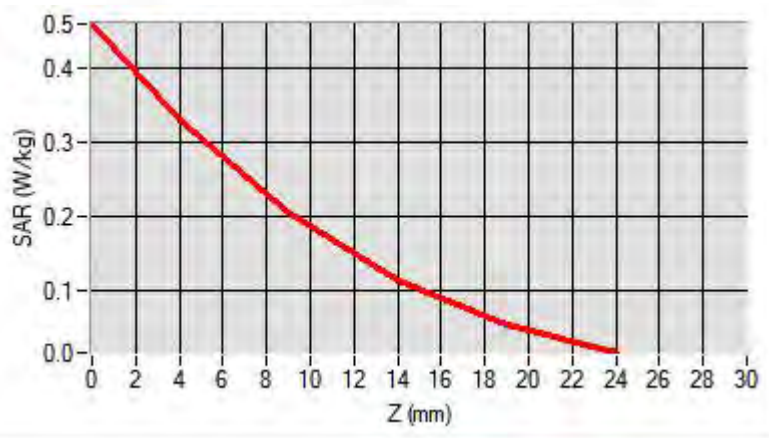
Maximum location: X=-3.00, Y=-37.00 ; SAR Peak: 0.49 W/kg

D. SAR 1g & 10g

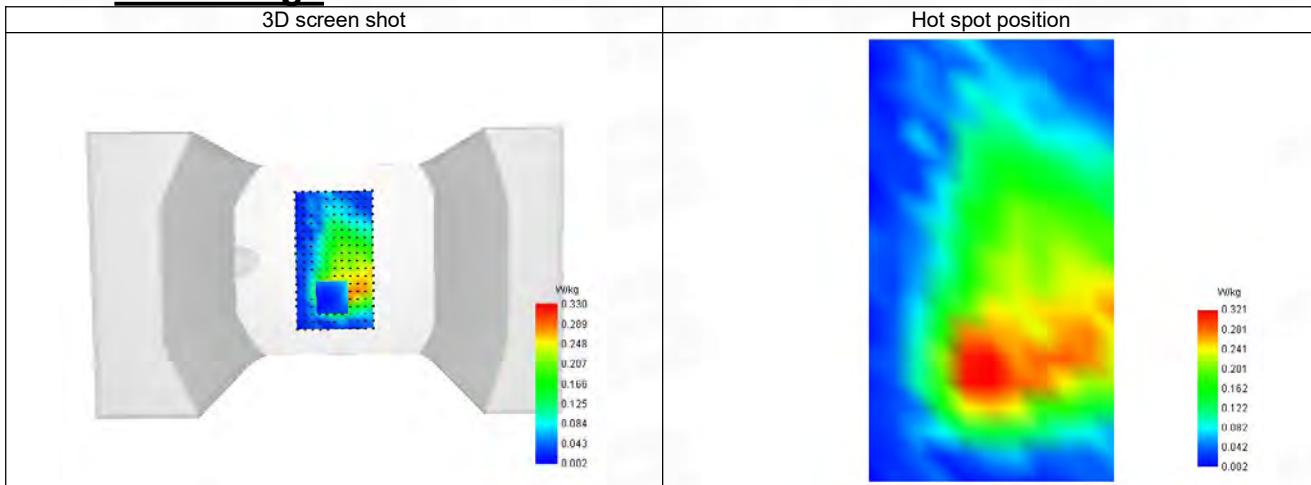
SAR 10g (W/Kg)	0.195
SAR 1g (W/Kg)	0.334
Variation (%)	-2.600
Horizontal validation criteria: minimum distance (mm)	8.562
Vertical validation criteria: SAR ratio M2/M1 (%)	62.12%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.459	0.330	0.205	0.114	0.053



F. 3D Image



9-Head with front position in dist. 0mm on Channel 4183 in WCDMA Band 5

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

Date of measurement: 14/8/2024

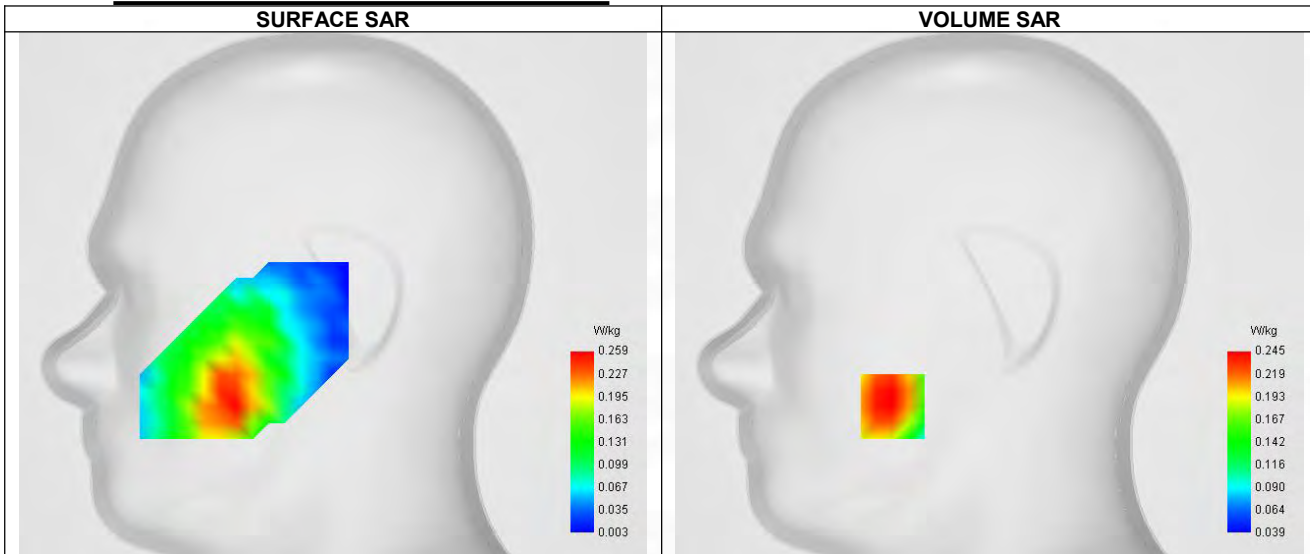
A. Experimental conditions.

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	Middle (4183)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	836.600
Relative permittivity (real part)	41.408
Relative permittivity (imaginary part)	19.481
Conductivity (S/m)	0.871

C. SAR Surface and Volume



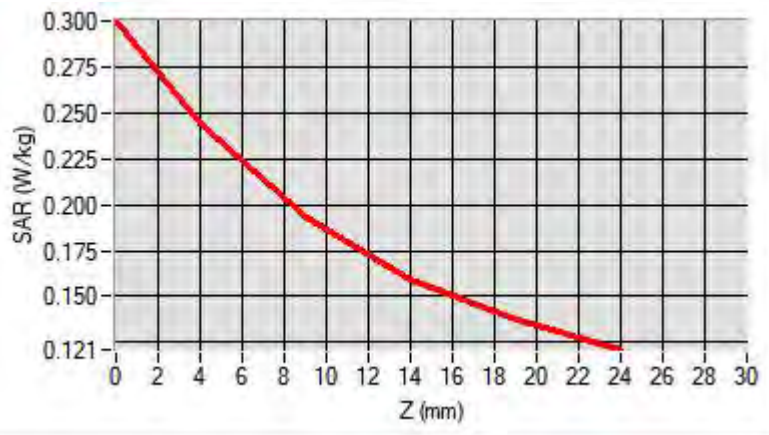
Maximum location: X=-48.00, Y=-56.00 ; SAR Peak: 0.31 W/kg

D. SAR 1g & 10g

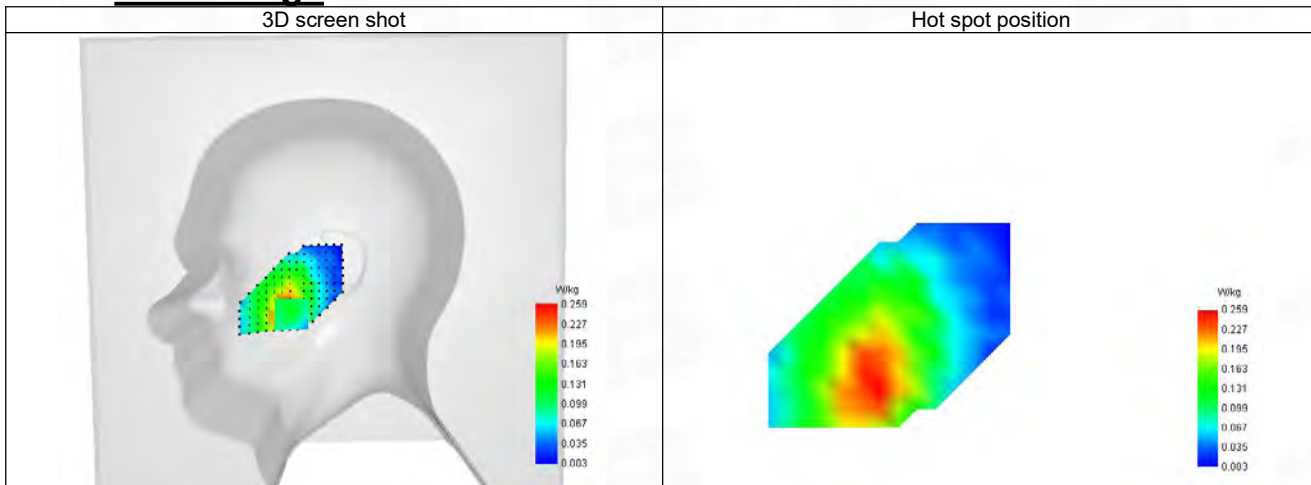
SAR 10g (W/Kg)	0.201
SAR 1g (W/Kg)	0.266
Variation (%)	4.850
Horizontal validation criteria: minimum distance (mm)	8.477
Vertical validation criteria: SAR ratio M2/M1 (%)	62.45%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.300	0.245	0.153	0.129	0.107



F. 3D Image



10-Body with back position in dist. 10mm on Channel 4183 in WCDMA Band 5

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

Date of measurement: 14/8/2024

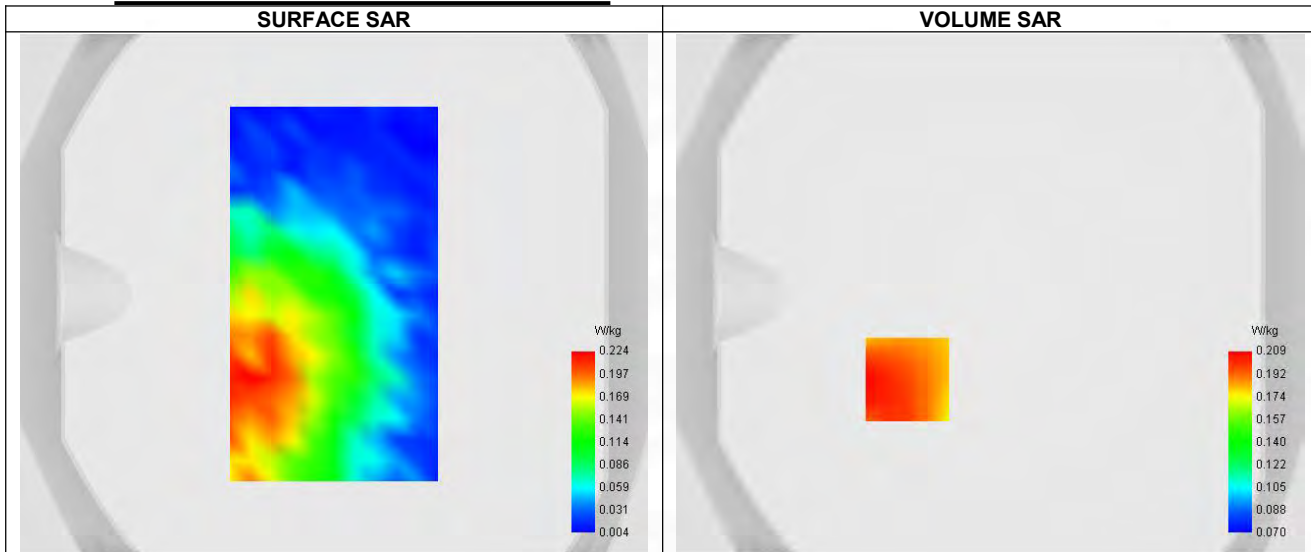
A. Experimental conditions.

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	Middle (4183)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	836.600
Relative permittivity (real part)	41.408
Relative permittivity (imaginary part)	19.481
Conductivity (S/m)	0.871

C. SAR Surface and Volume



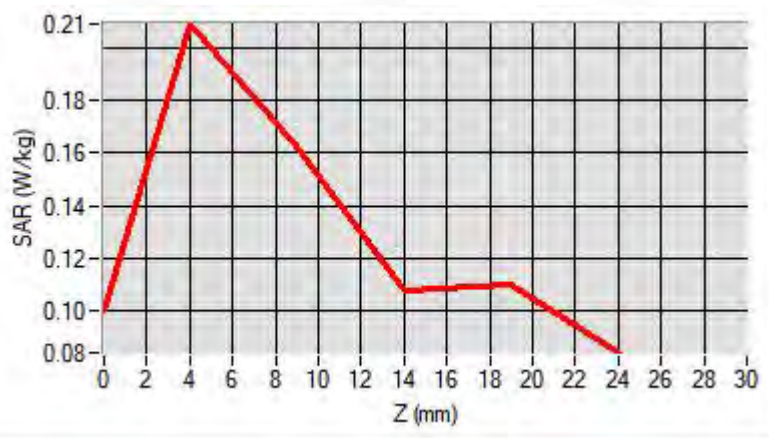
Maximum location: X=-32.00, Y=-33.00 ; SAR Peak: 0.29 W/kg

D. SAR 1g & 10g

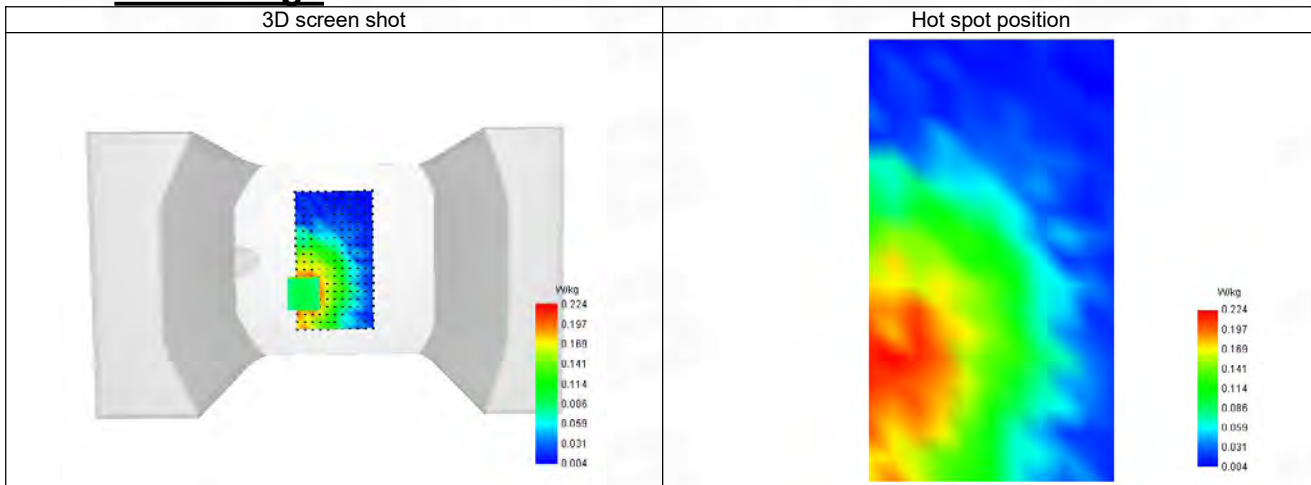
SAR 10g (W/Kg)	0.178
SAR 1g (W/Kg)	0.229
Variation (%)	-1.630
Horizontal validation criteria: minimum distance (mm)	8.214
Vertical validation criteria: SAR ratio M2/M1 (%)	63.64%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.100	0.209	0.133	0.108	0.080



F. 3D Image



11-Head with front position in dist. 0mm on Channel 18900 in LTE band 2

SAR Measurement at LTE band 2 (Cheek, Right)

Date of measurement: 19/8/2024

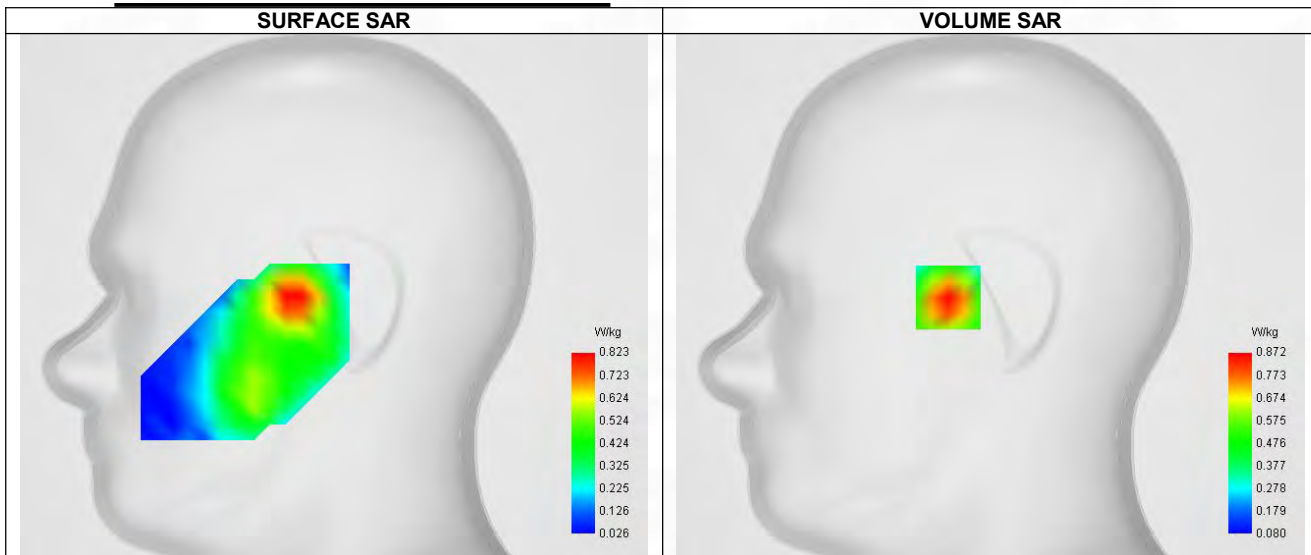
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.24
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 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=-21.00, Y=-1.00 ; SAR Peak: 1.19 W/kg

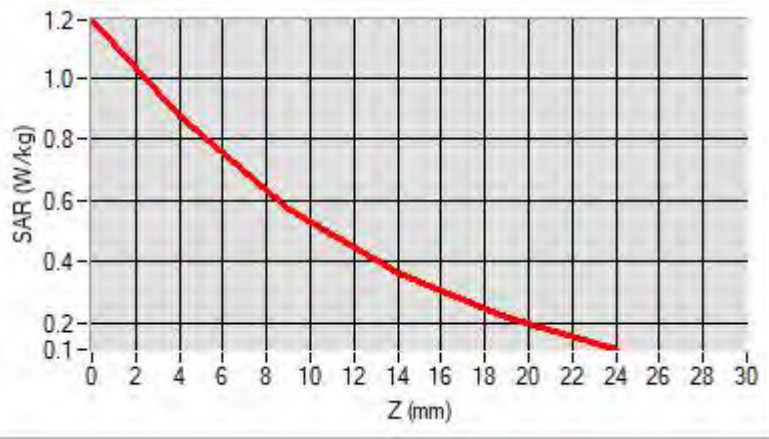
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.407
SAR 1g (W/Kg)	0.721
Variation (%)	-3.920
Horizontal validation criteria: minimum distance (mm)	8.977
Vertical validation criteria: SAR ratio M2/M1 (%)	65.94%

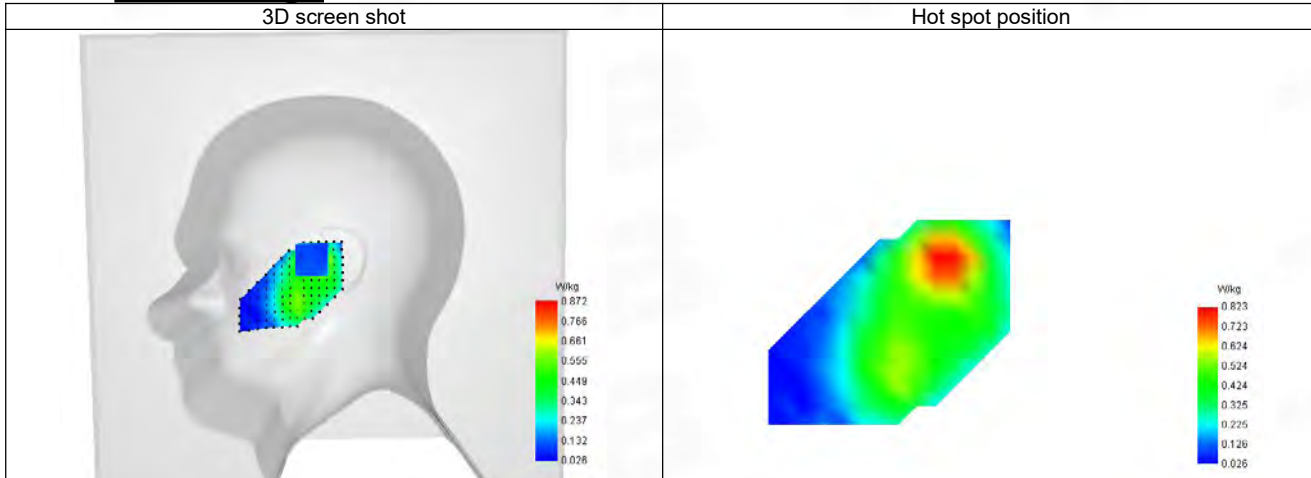
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	1.188	0.872	0.575	0.364	0.218
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F. 3D Image



12-Body with back position in dist. 10mm on Channel 18900 in LTE band 2

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

Date of measurement: 19/8/2024

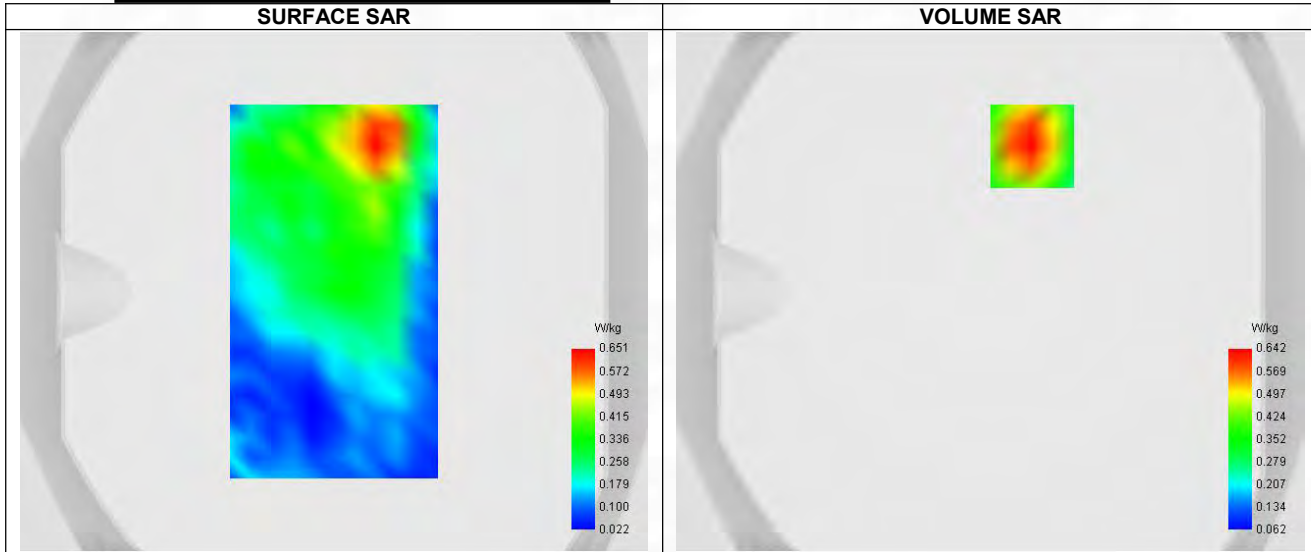
A. Experimental conditions.

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	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



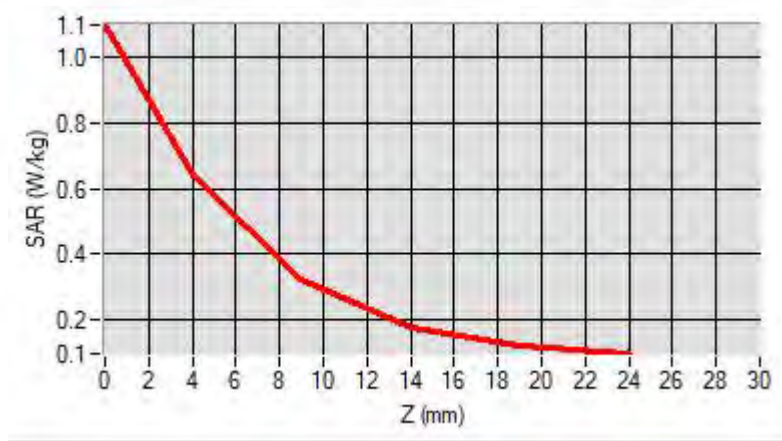
Maximum location: X=16.00, Y=56.00 ; SAR Peak: 1.11 W/kg

D. SAR 1g & 10g

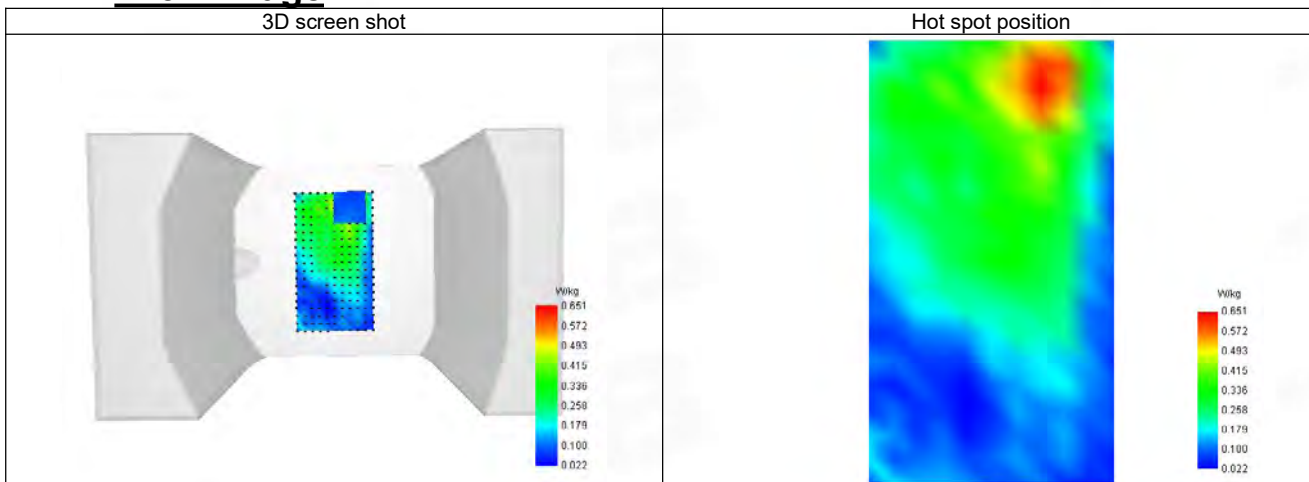
SAR 10g (W/Kg)	0.366
SAR 1g (W/Kg)	0.653
Variation (%)	4.610
Horizontal validation criteria: minimum distance (mm)	8.610
Vertical validation criteria: SAR ratio M2/M1 (%)	49.84%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.101	0.642	0.320	0.174	0.118



F. 3D Image



13-Head with front position in dist. 0mm on Channel 20050 in LTE band 4

SAR Measurement at LTE band 4 (Cheek, Right)

Date of measurement: 16/8/2024

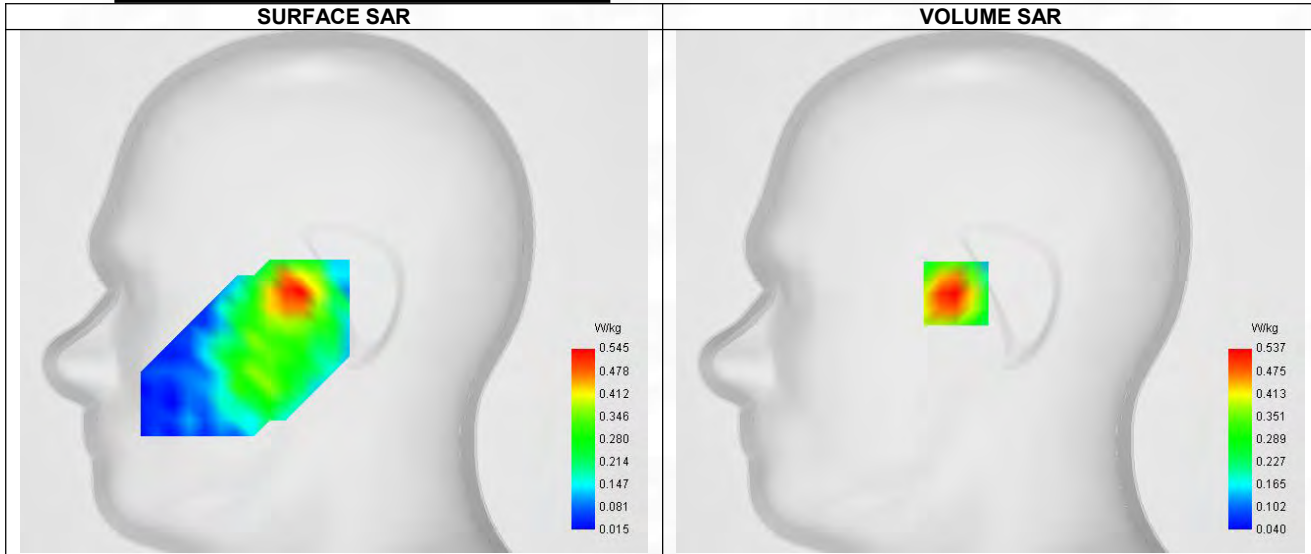
A. Experimental conditions.

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	Right head
Device Position	Cheek
Band	LTE band 4
Channels	Lower (20050)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1720.090
Relative permittivity (real part)	40.034
Relative permittivity (imaginary part)	14.537
Conductivity (S/m)	1.329

C. SAR Surface and Volume



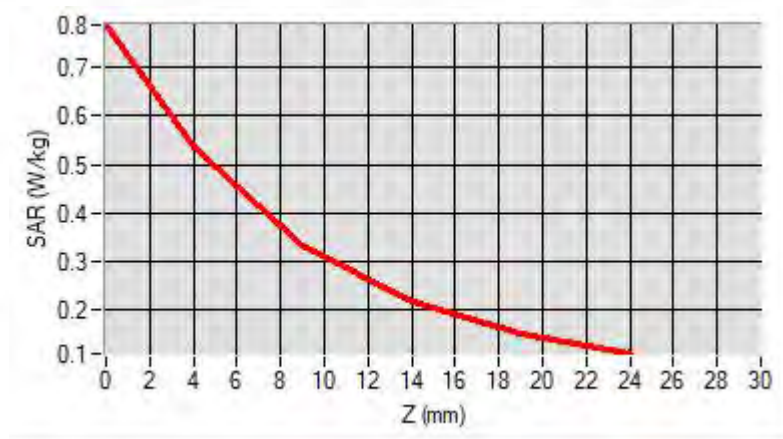
Maximum location: X=-17.00, Y=-1.00 ; SAR Peak: 0.81 W/kg

D. SAR 1g & 10g

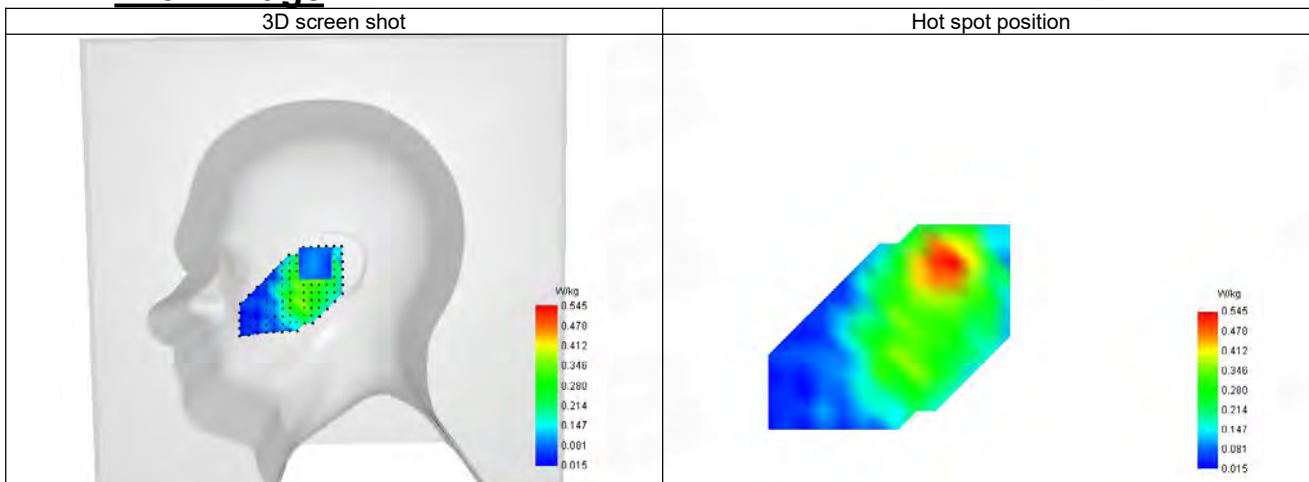
SAR 10g (W/Kg)	0.317
SAR 1g (W/Kg)	0.537
Variation (%)	2.340
Horizontal validation criteria: minimum distance (mm)	8.642
Vertical validation criteria: SAR ratio M2/M1 (%)	62.20%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.788	0.537	0.334	0.216	0.152



F. 3D Image



14-Body with back position in dist. 10mm on Channel 20050 in LTE band 4

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

Date of measurement: 16/8/2024

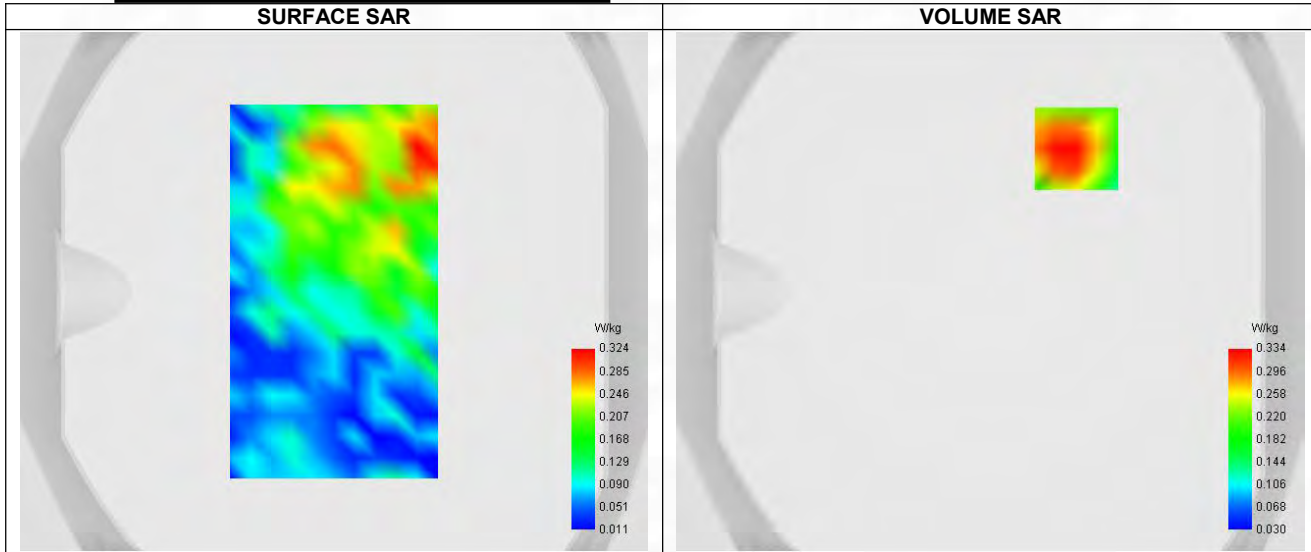
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.96
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 4
Channels	Lower (20050)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1720.090
Relative permittivity (real part)	40.034
Relative permittivity (imaginary part)	14.537
Conductivity (S/m)	1.329

C. SAR Surface and Volume



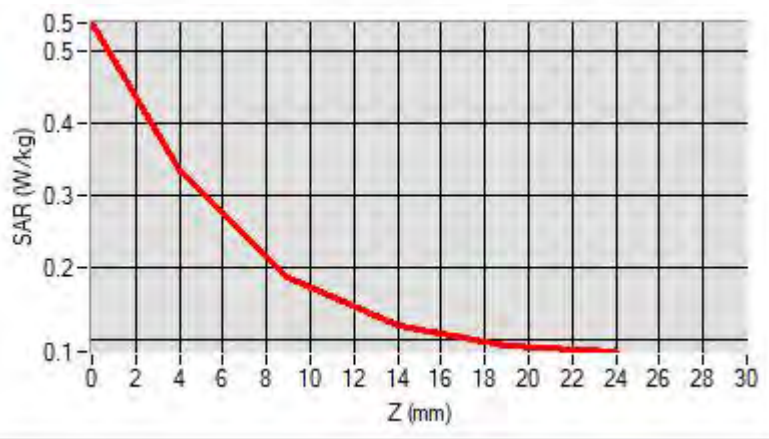
Maximum location: X=33.00, Y=55.00 ; SAR Peak: 0.56 W/kg

D. SAR 1g & 10g

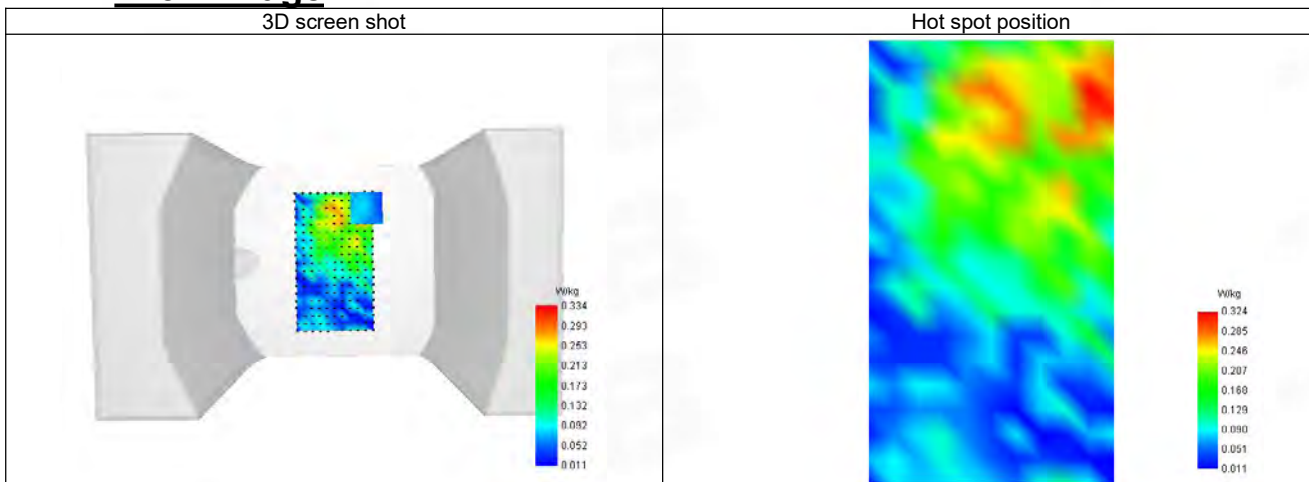
SAR 10g (W/Kg)	0.203
SAR 1g (W/Kg)	0.340
Variation (%)	-3.130
Horizontal validation criteria: minimum distance (mm)	8.365
Vertical validation criteria: SAR ratio M2/M1 (%)	55.69%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.538	0.334	0.186	0.117	0.091



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: 15/8/2024

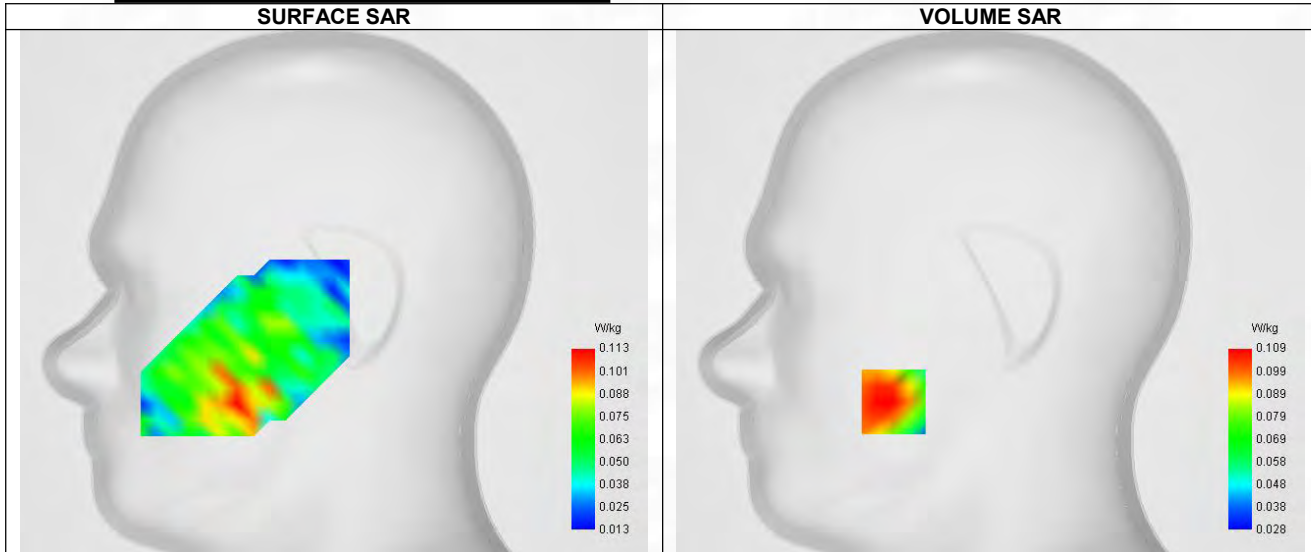
A. Experimental conditions.

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	25
RB size	1

B. Permittivity

Frequency (MHz)	829.090
Relative permittivity (real part)	41.437
Relative permittivity (imaginary part)	19.627
Conductivity (S/m)	0.869

C. SAR Surface and Volume



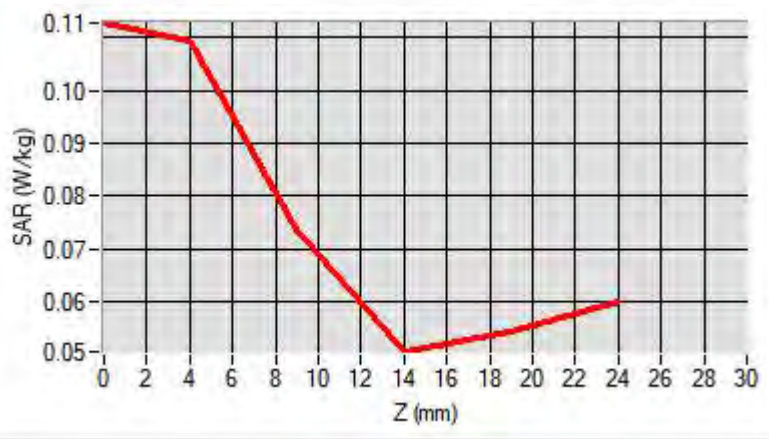
Maximum location: X=-48.00, Y=-55.00 ; SAR Peak: 0.18 W/kg

D. SAR 1g & 10g

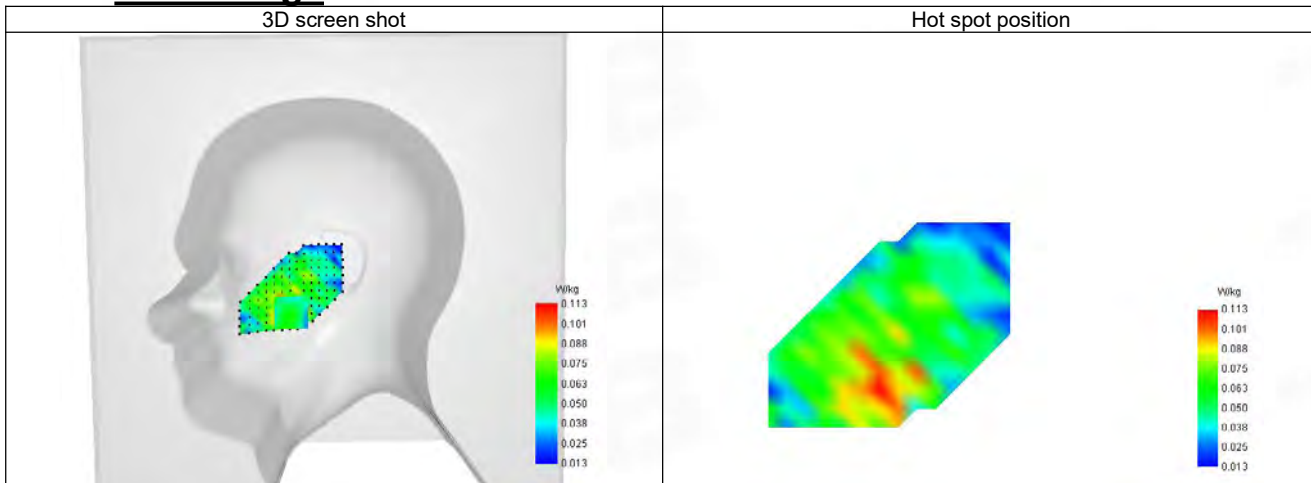
SAR 10g (W/Kg)	0.086
SAR 1g (W/Kg)	0.122
Variation (%)	-3.830
Horizontal validation criteria: minimum distance (mm)	9.374
Vertical validation criteria: SAR ratio M2/M1 (%)	67.89%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.113	0.109	0.074	0.051	0.054



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: 15/8/2024

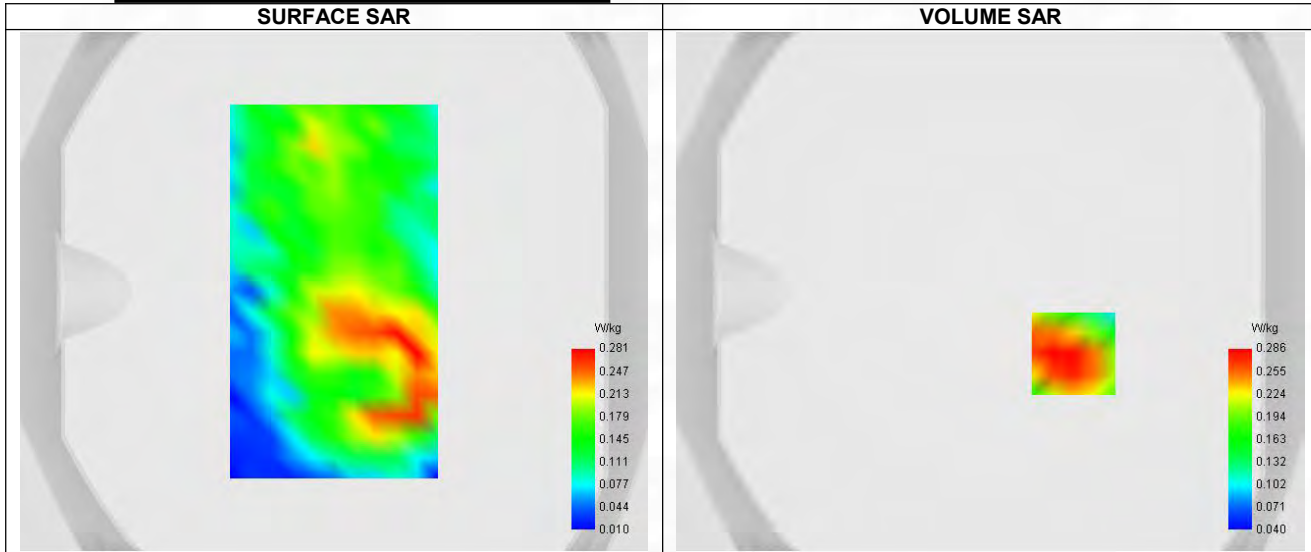
A. Experimental conditions.

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	25
RB size	1

B. Permittivity

Frequency (MHz)	829.090
Relative permittivity (real part)	41.437
Relative permittivity (imaginary part)	19.627
Conductivity (S/m)	0.869

C. SAR Surface and Volume



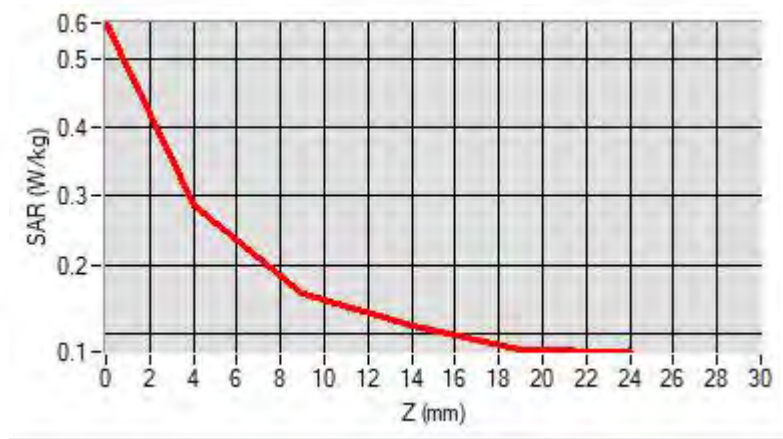
Maximum location: X=32.00, Y=-24.00 ; SAR Peak: 0.46 W/kg

D. SAR 1g & 10g

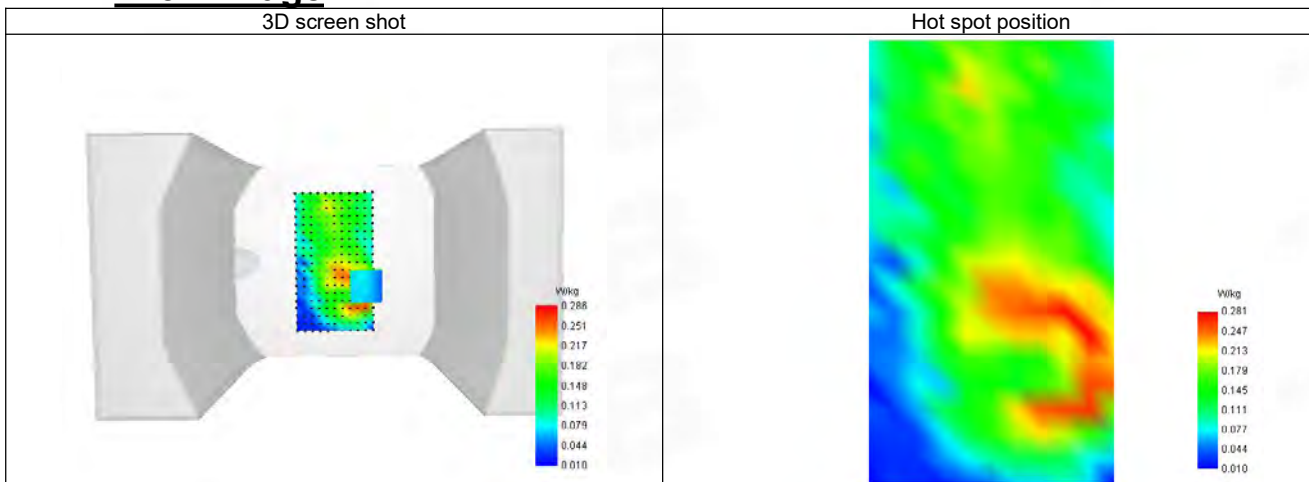
SAR 10g (W/Kg)	0.197
SAR 1g (W/Kg)	0.311
Variation (%)	-2.560
Horizontal validation criteria: minimum distance (mm)	8.326
Vertical validation criteria: SAR ratio M2/M1 (%)	55.24%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.552	0.286	0.158	0.112	0.077



F. 3D Image



17-Head with front position in dist. 0mm on Channel 20850 in LTE band 7

SAR Measurement at LTE band 7 (Cheek, Right)

Date of measurement: 23/8/2024

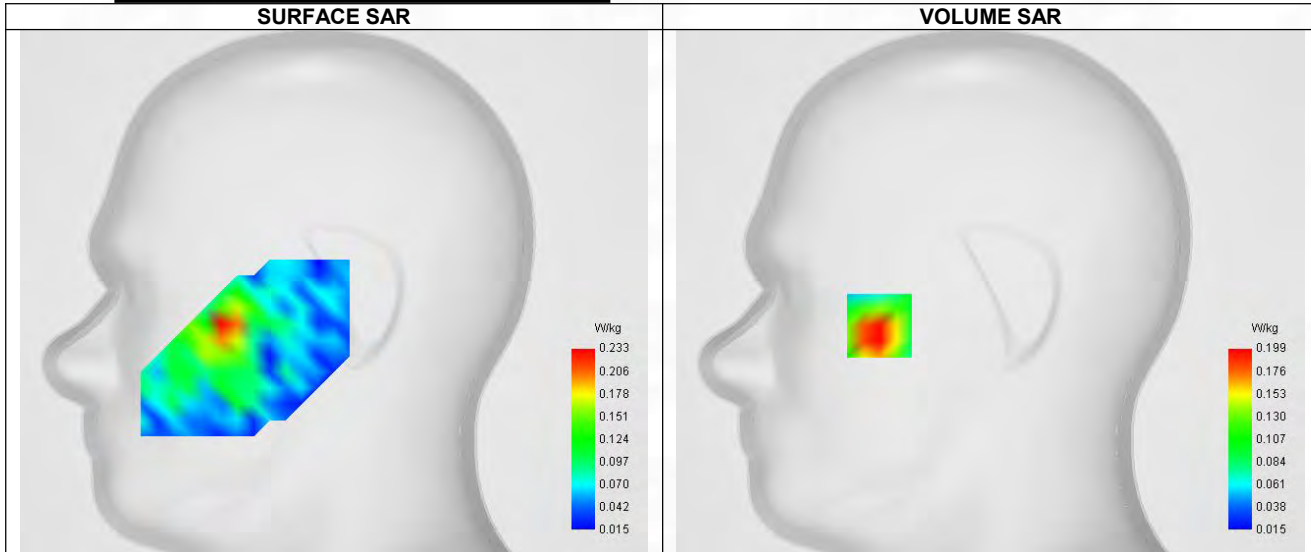
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.40
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 7
Channels	Lower (20850)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	2510.090
Relative permittivity (real part)	39.000
Relative permittivity (imaginary part)	13.080
Conductivity (S/m)	1.874

C. SAR Surface and Volume



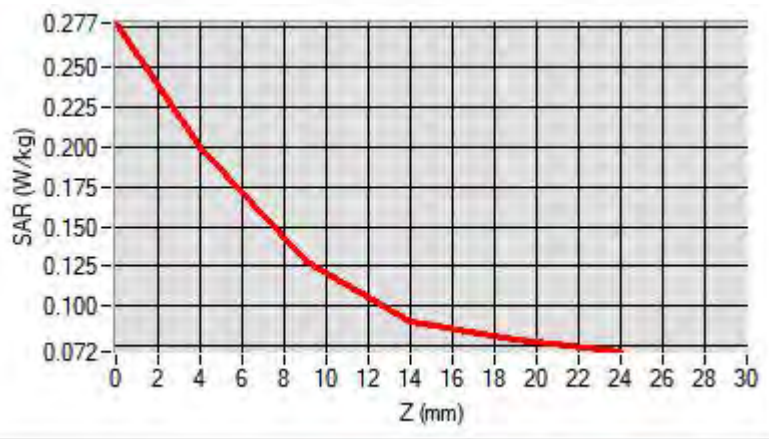
Maximum location: X=-55.00, Y=-17.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

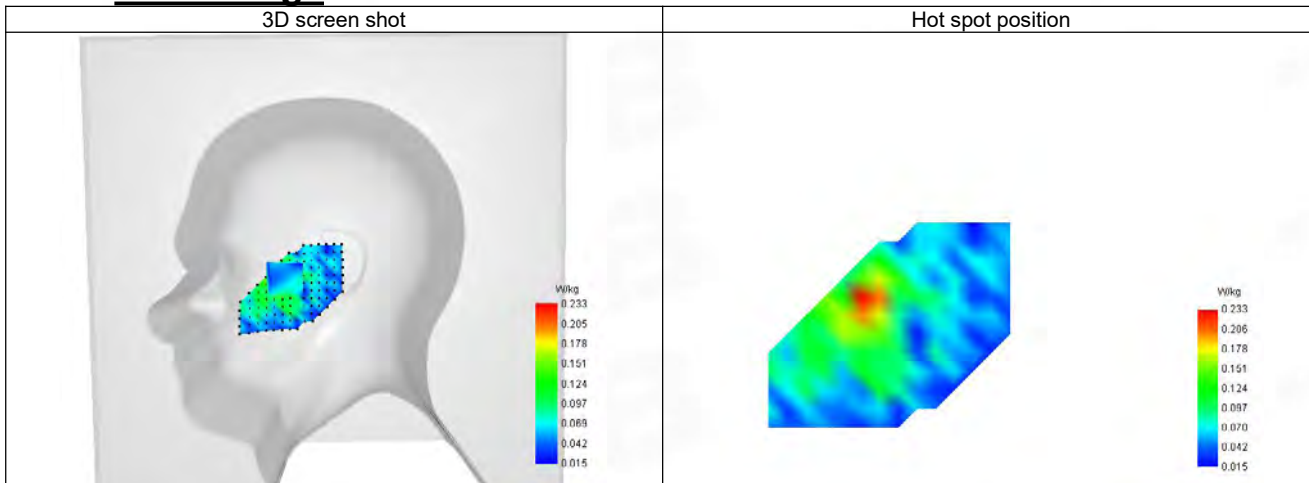
SAR 10g (W/Kg)	0.128
SAR 1g (W/Kg)	0.204
Variation (%)	-0.350
Horizontal validation criteria: minimum distance (mm)	8.956
Vertical validation criteria: SAR ratio M2/M1 (%)	64.32%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.277	0.199	0.128	0.091	0.079



F. 3D Image



18-Body with back position in dist. 10mm on Channel 20850 in LTE band 7

SAR Measurement at LTE band 7 (Body, Validation Plane)

Date of measurement: 23/8/2024

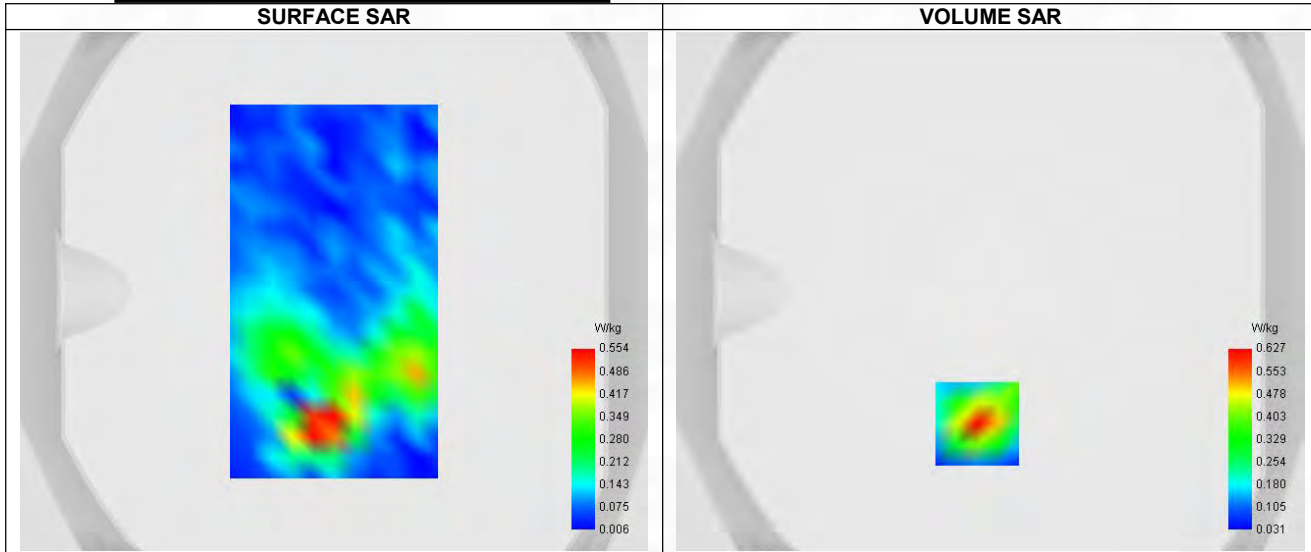
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.40
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels	Lower (20850)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	2510.090
Relative permittivity (real part)	39.000
Relative permittivity (imaginary part)	13.080
Conductivity (S/m)	1.874

C. SAR Surface and Volume



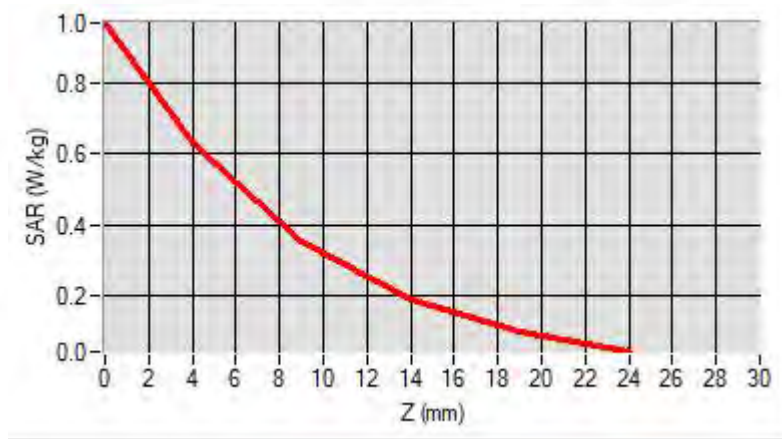
Maximum location: X=-5.00, Y=-51.00 ; SAR Peak: 0.98 W/kg

D. SAR 1g & 10g

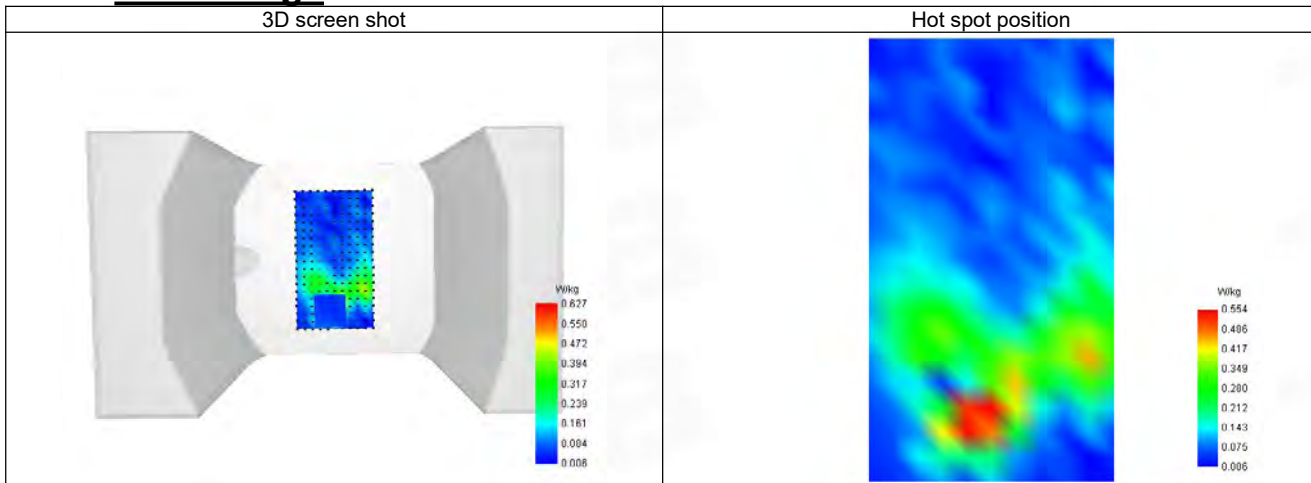
SAR 10g (W/Kg)	0.288
SAR 1g (W/Kg)	0.583
Variation (%)	2.290
Horizontal validation criteria: minimum distance (mm)	9.674
Vertical validation criteria: SAR ratio M2/M1 (%)	55.82%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.966	0.627	0.350	0.188	0.096



F. 3D Image



19-Head with front position in dist. 0mm on Channel 23130 in LTE band 12

SAR Measurement at LTE band 12 (Cheek, Right)

Date of measurement: 9/8/2024

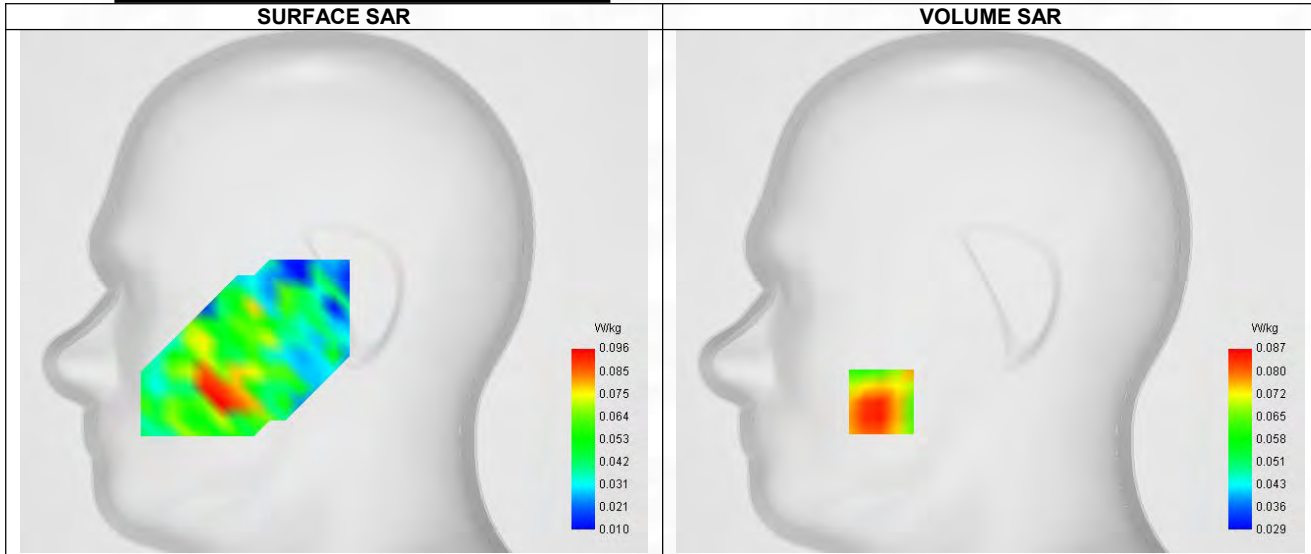
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.65
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	Higher (23130)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	711.090
Relative permittivity (real part)	41.979
Relative permittivity (imaginary part)	22.362
Conductivity (S/m)	0.855

C. SAR Surface and Volume



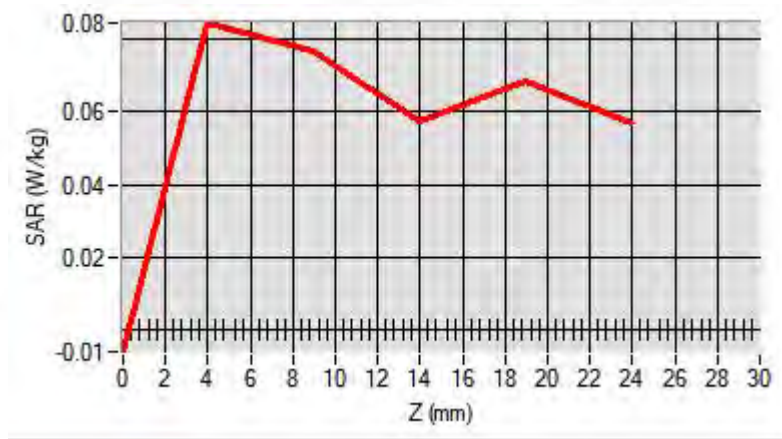
Maximum location: X=-54.00, Y=-55.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

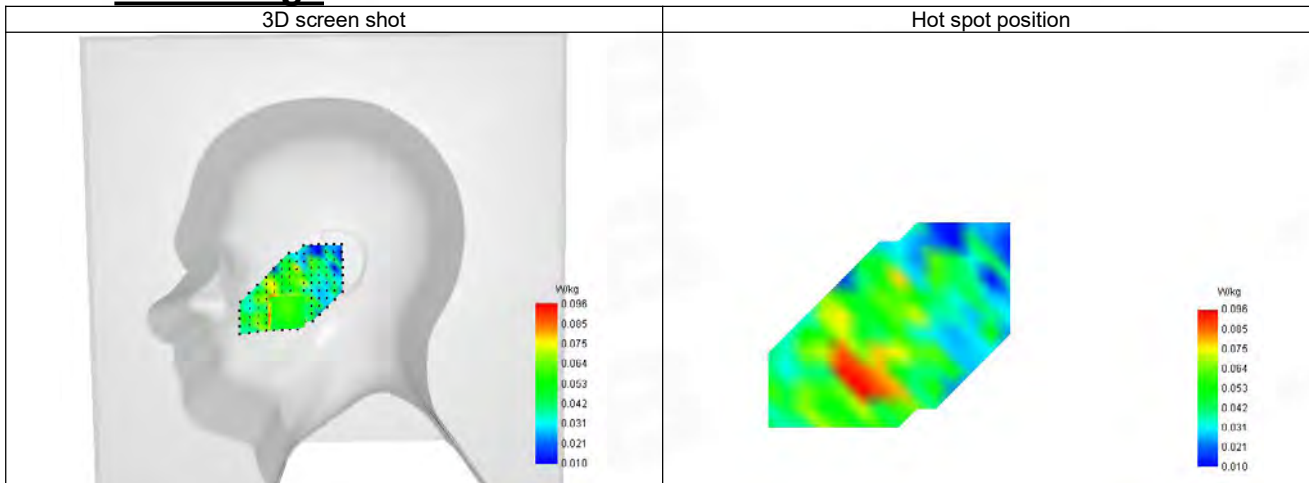
SAR 10g (W/Kg)	0.051
SAR 1g (W/Kg)	0.098
Variation (%)	-3.360
Horizontal validation criteria: minimum distance (mm)	8.597
Vertical validation criteria: SAR ratio M2/M1 (%)	55.95%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	-0.006	0.084	0.047	0.058	0.069



F. 3D Image



20-Body with back position in dist. 10mm on Channel 23130 in LTE band 12

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

Date of measurement: 9/8/2024

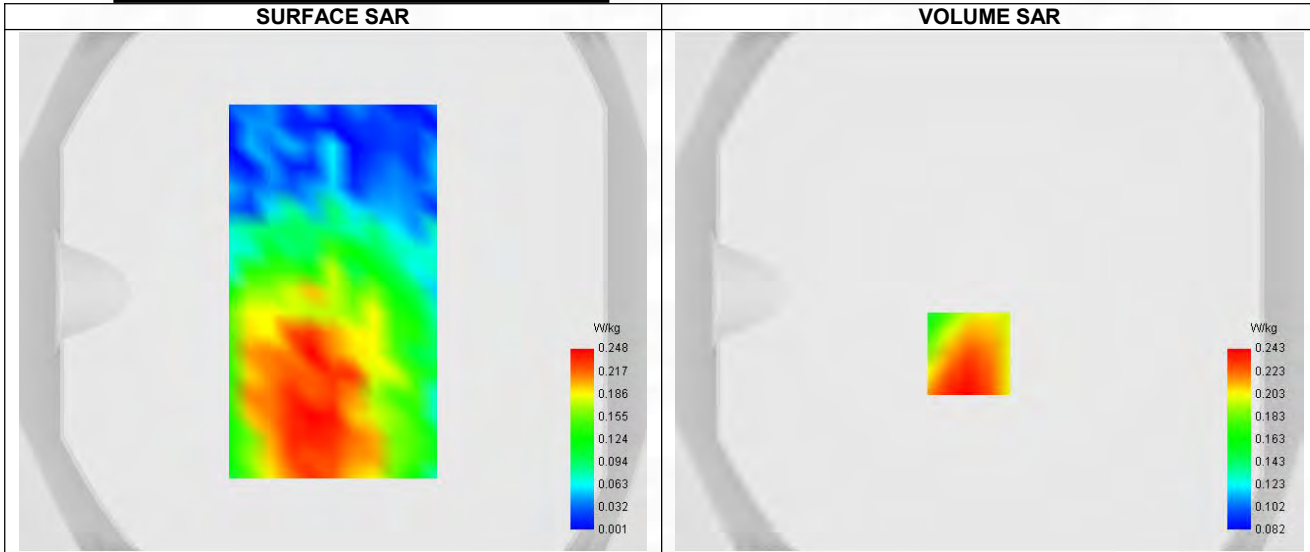
A. Experimental conditions.

Probe	SN 04/22 EPG0365
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	Body
Band	LTE band 12
Channels	Higher (23130)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	711.090
Relative permittivity (real part)	41.979
Relative permittivity (imaginary part)	22.362
Conductivity (S/m)	0.855

C. SAR Surface and Volume



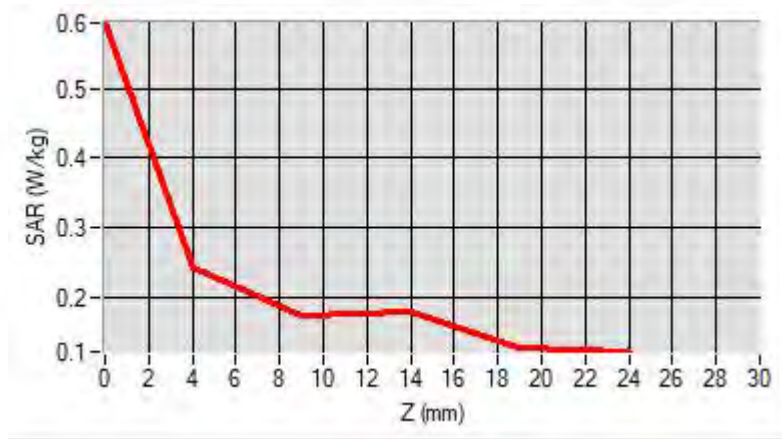
Maximum location: X=-8.00, Y=-24.00 ; SAR Peak: 0.28 W/kg

D. SAR 1g & 10g

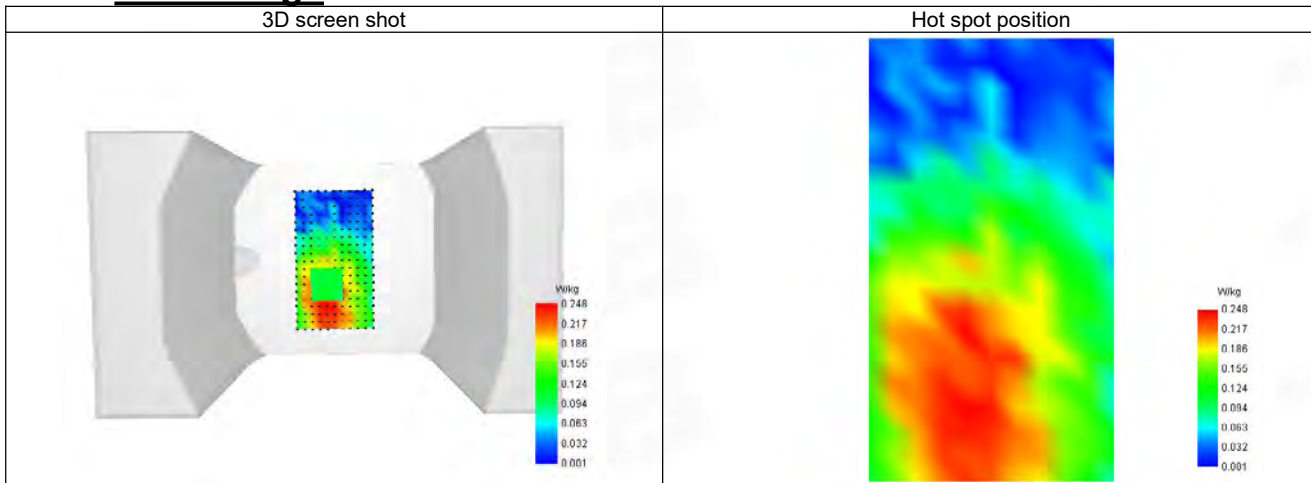
SAR 10g (W/Kg)	0.207
SAR 1g (W/Kg)	0.258
Variation (%)	1.510
Horizontal validation criteria: minimum distance (mm)	8.155
Vertical validation criteria: SAR ratio M2/M1 (%)	62.96%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.595	0.243	0.153	0.128	0.106



F. 3D Image



21-Head with front position in dist. 0mm on Channel 23230 in LTE band 13

SAR Measurement at LTE band 13 (Cheek, Right)

Date of measurement: 9/8/2024

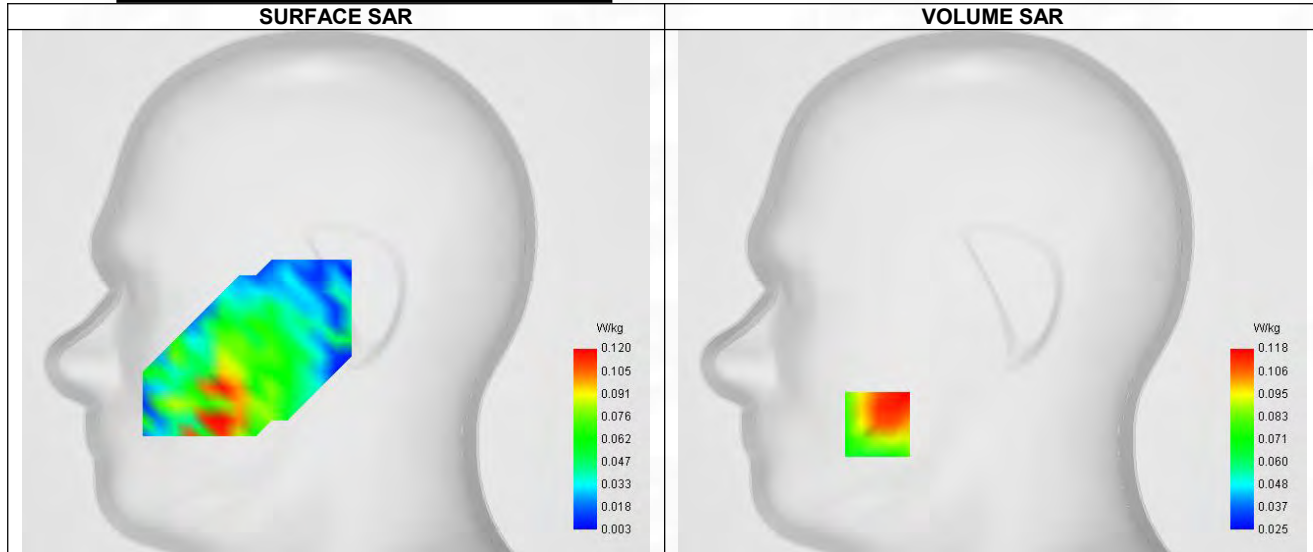
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.65
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 13
Channels	Middle (23230)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	782.090
Relative permittivity (real part)	41.653
Relative permittivity (imaginary part)	20.716
Conductivity (S/m)	0.864

C. SAR Surface and Volume



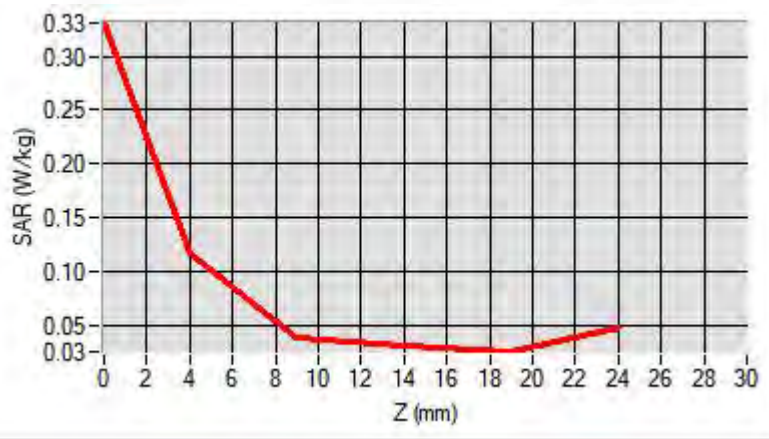
Maximum location: X=-57.00, Y=-66.00 ; SAR Peak: 0.23 W/kg

D. SAR 1g & 10g

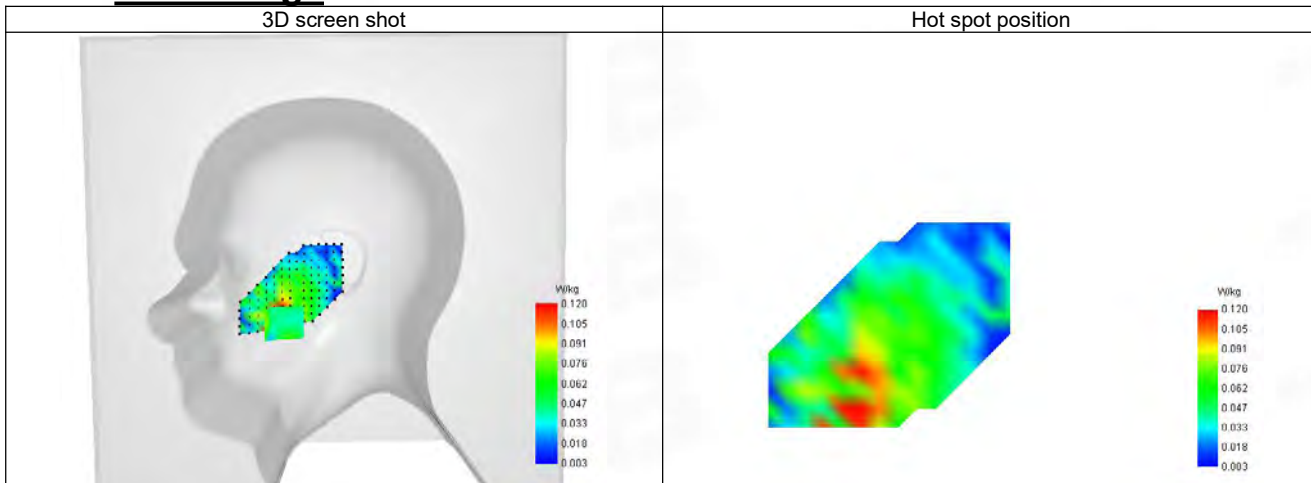
SAR 10g (W/Kg)	0.086
SAR 1g (W/Kg)	0.137
Variation (%)	2.670
Horizontal validation criteria: minimum distance (mm)	9.322
Vertical validation criteria: SAR ratio M2/M1 (%)	58.47%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.331	0.118	0.069	0.031	0.025



F. 3D Image



22-Body with back position in dist. 10mm on Channel 23230 in LTE band 13

SAR Measurement at LTE band 13 (Body, Validation Plane)

Date of measurement: 9/8/2024

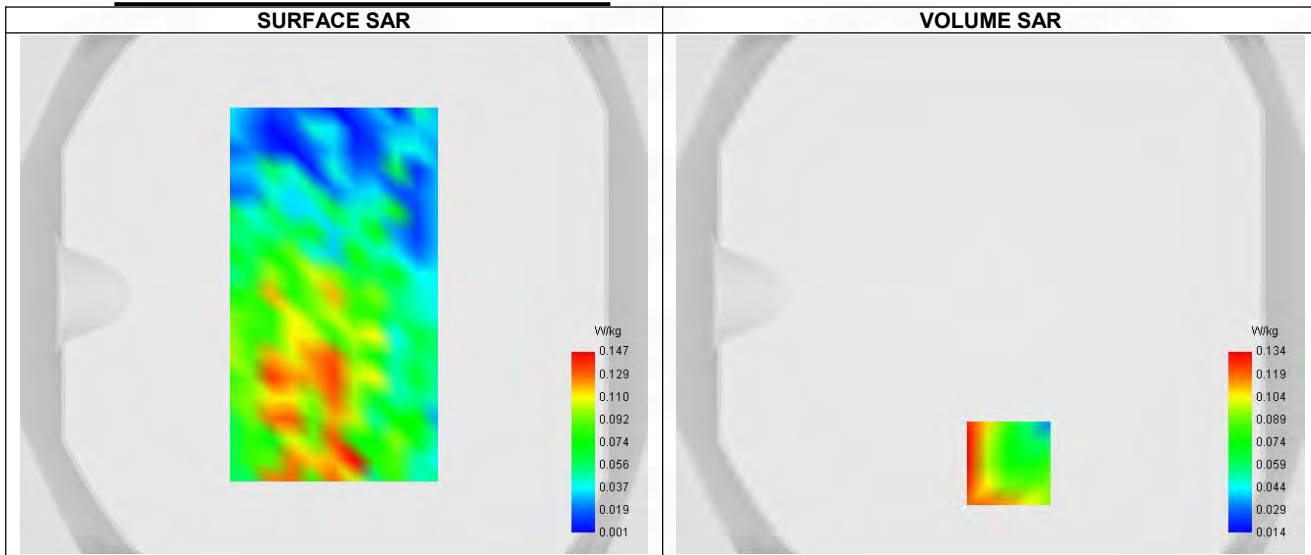
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.65
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 13
Channels	Middle (23230)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	782.090
Relative permittivity (real part)	41.653
Relative permittivity (imaginary part)	20.716
Conductivity (S/m)	0.864

C. SAR Surface and Volume



Maximum location: X=7.00, Y=-65.00 ; SAR Peak: 0.21 W/kg

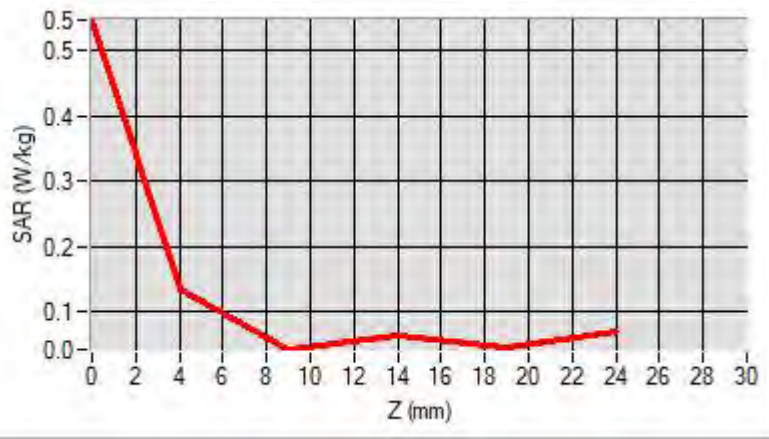
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.083
SAR 1g (W/Kg)	0.126
Variation (%)	-2.270
Horizontal validation criteria: minimum distance (mm)	9.344
Vertical validation criteria: SAR ratio M2/M1 (%)	46.27%

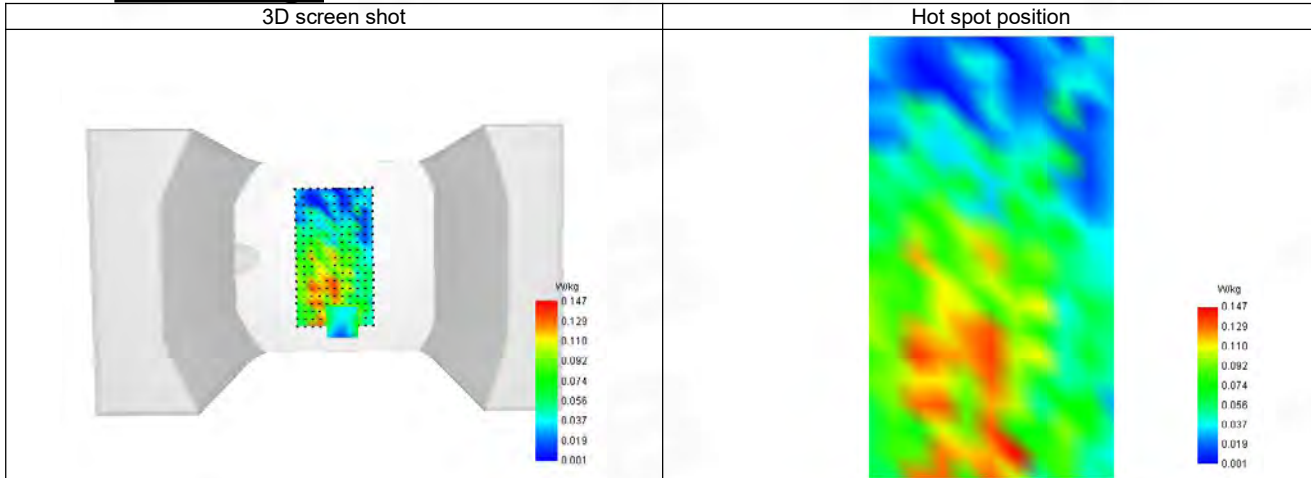
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	0.547	0.134	0.062	0.045	0.036
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F. 3D Image



23-Head with front position in dist. 0mm on Channel 23780 in LTE band 17

SAR Measurement at LTE band 17 (Cheek, Right)

Date of measurement: 12/8/2024

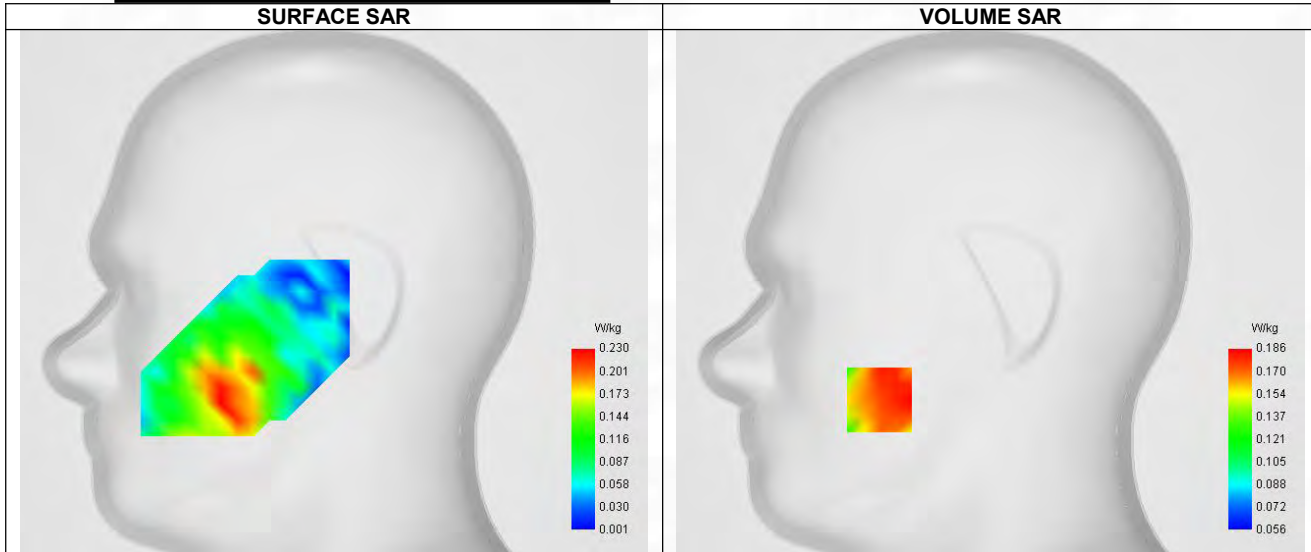
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.65
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 17
Channels	Lower (23780)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	709.090
Relative permittivity (real part)	41.988
Relative permittivity (imaginary part)	22.408
Conductivity (S/m)	0.855

C. SAR Surface and Volume



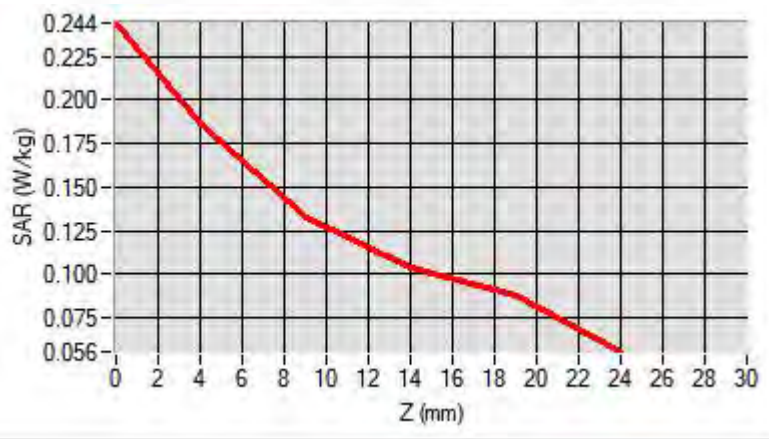
Maximum location: X=-55.00, Y=-54.00 ; SAR Peak: 0.23 W/kg

D. SAR 1g & 10g

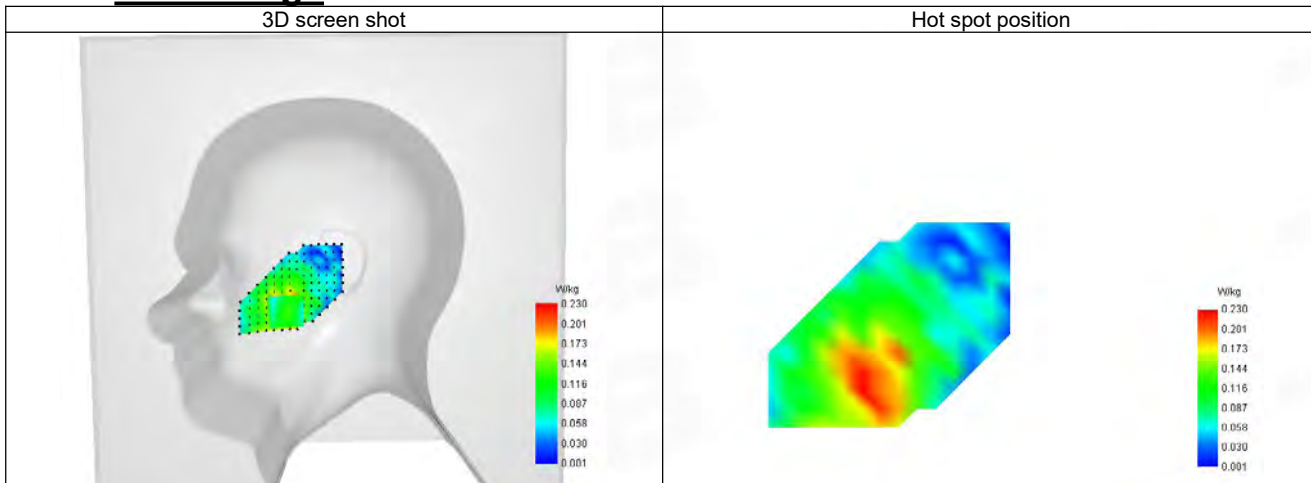
SAR 10g (W/Kg)	0.170
SAR 1g (W/Kg)	0.203
Variation (%)	4.840
Horizontal validation criteria: minimum distance (mm)	10.678
Vertical validation criteria: SAR ratio M2/M1 (%)	71.51%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.244	0.186	0.133	0.104	0.088



F. 3D Image



24-Body with back position in dist. 10mm on Channel 23780 in LTE band 17

SAR Measurement at LTE band 17 (Body, Validation Plane)

Date of measurement: 12/8/2024

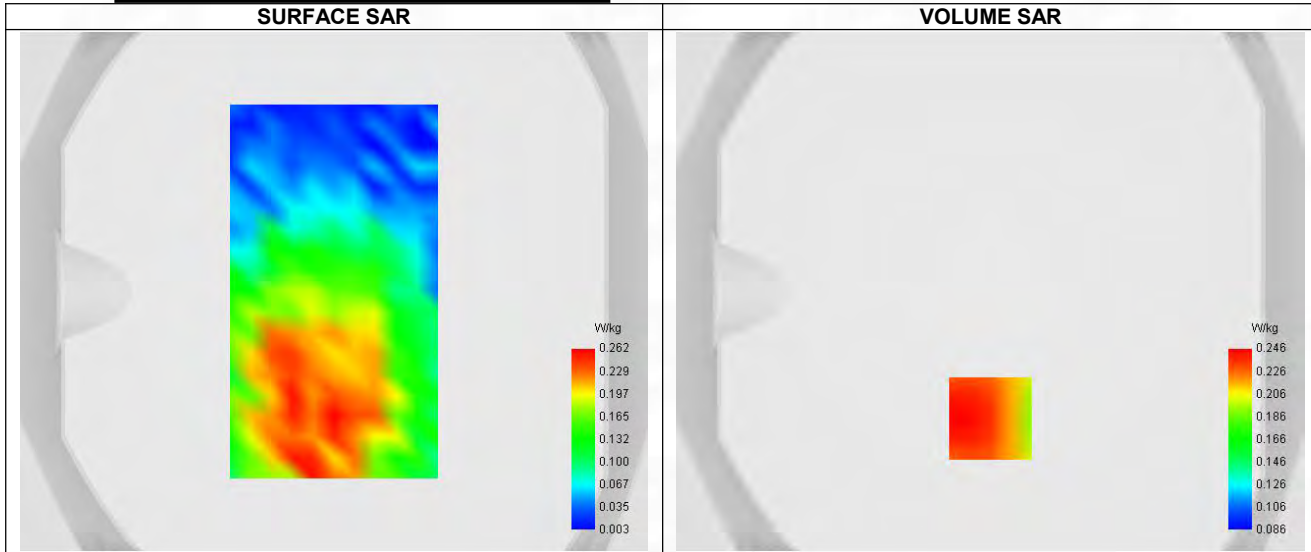
A. Experimental conditions.

Probe	SN 04/22 EPG0365
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	Body
Band	LTE band 17
Channels	Lower (23780)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	709.090
Relative permittivity (real part)	41.988
Relative permittivity (imaginary part)	22.408
Conductivity (S/m)	0.855

C. SAR Surface and Volume



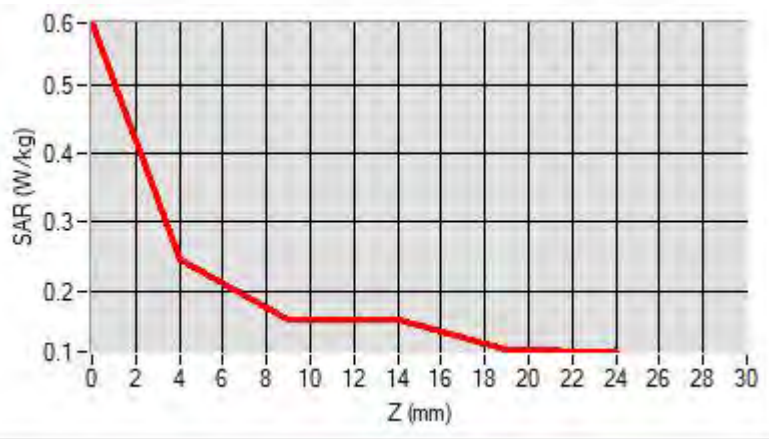
Maximum location: X=0.00, Y=-49.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

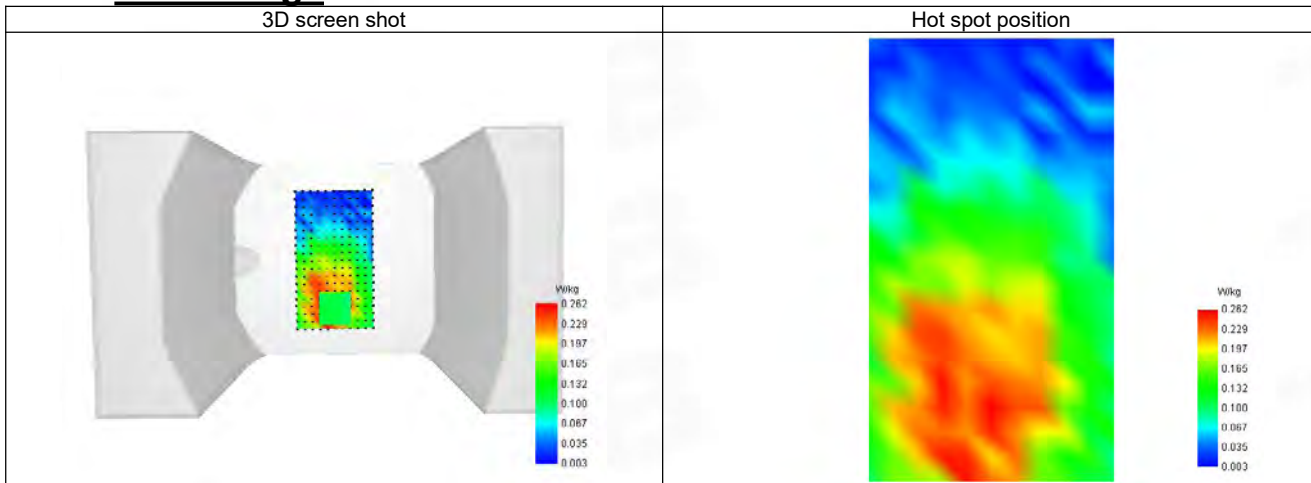
SAR 10g (W/Kg)	0.207
SAR 1g (W/Kg)	0.264
Variation (%)	-1.470
Horizontal validation criteria: minimum distance (mm)	8.747
Vertical validation criteria: SAR ratio M2/M1 (%)	65.04%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.590	0.246	0.160	0.157	0.115



F. 3D Image



25-Head with front position in dist. 0mm on Channel 26365 in LTE band 25

SAR Measurement at LTE band 25 (Cheek, Right)

Date of measurement: 19/8/2024

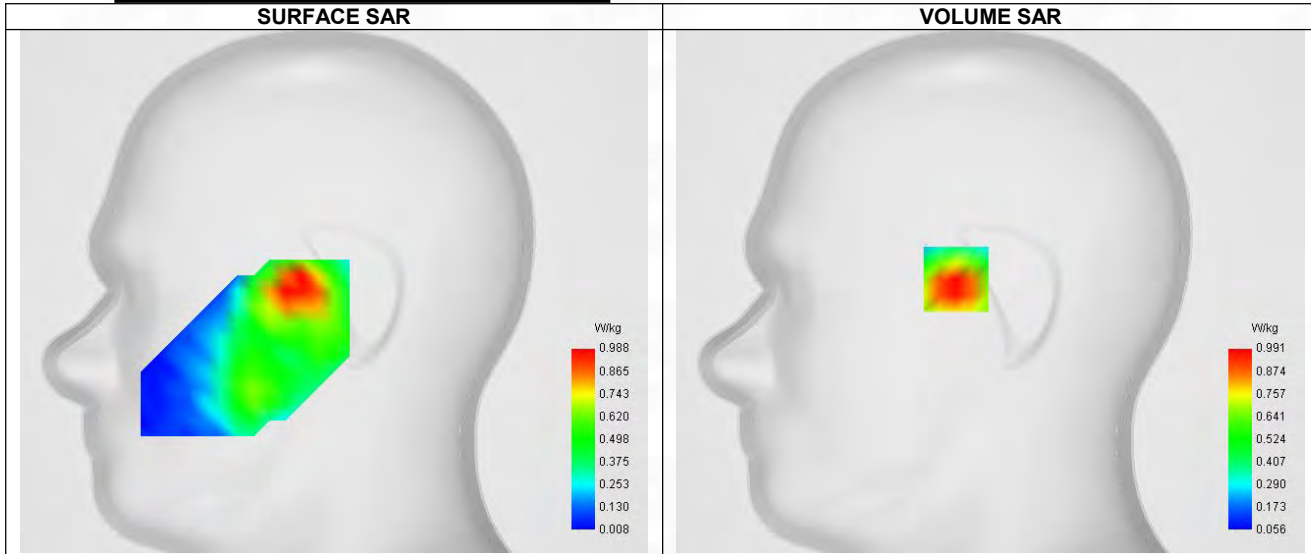
A. Experimental conditions.

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	Right head
Device Position	Cheek
Band	LTE band 25
Channels	Middle (26365)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1882.590
Relative permittivity (real part)	39.885
Relative permittivity (imaginary part)	13.504
Conductivity (S/m)	1.403

C. SAR Surface and Volume



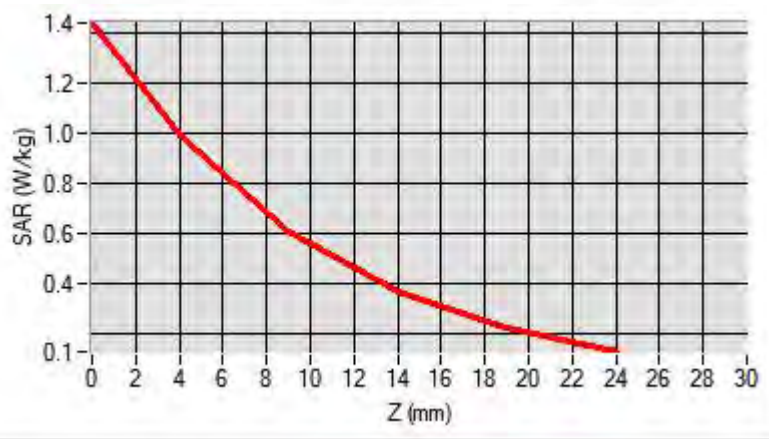
Maximum location: X=-17.00, Y=6.00 ; SAR Peak: 1.46 W/kg

D. SAR 1g & 10g

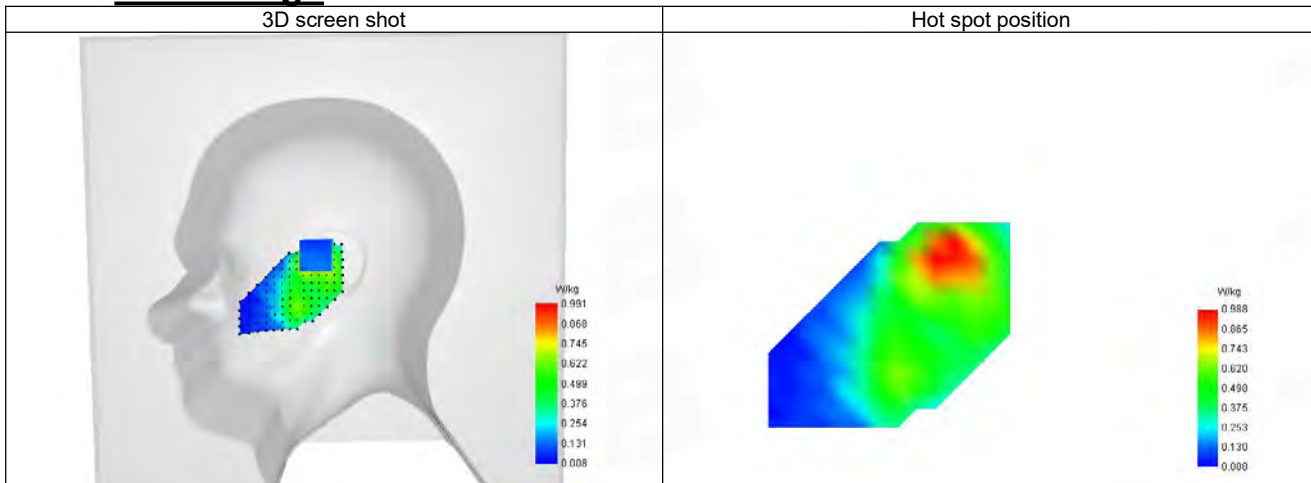
SAR 10g (W/Kg)	0.493
SAR 1g (W/Kg)	0.783
Variation (%)	-3.090
Horizontal validation criteria: minimum distance (mm)	9.312
Vertical validation criteria: SAR ratio M2/M1 (%)	61.55%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.438	0.991	0.610	0.372	0.226



F. 3D Image



26-Body with back position in dist. 10mm on Channel 26365 in LTE band 25

SAR Measurement at LTE band 25 (Body, Validation Plane)

Date of measurement: 19/8/2024

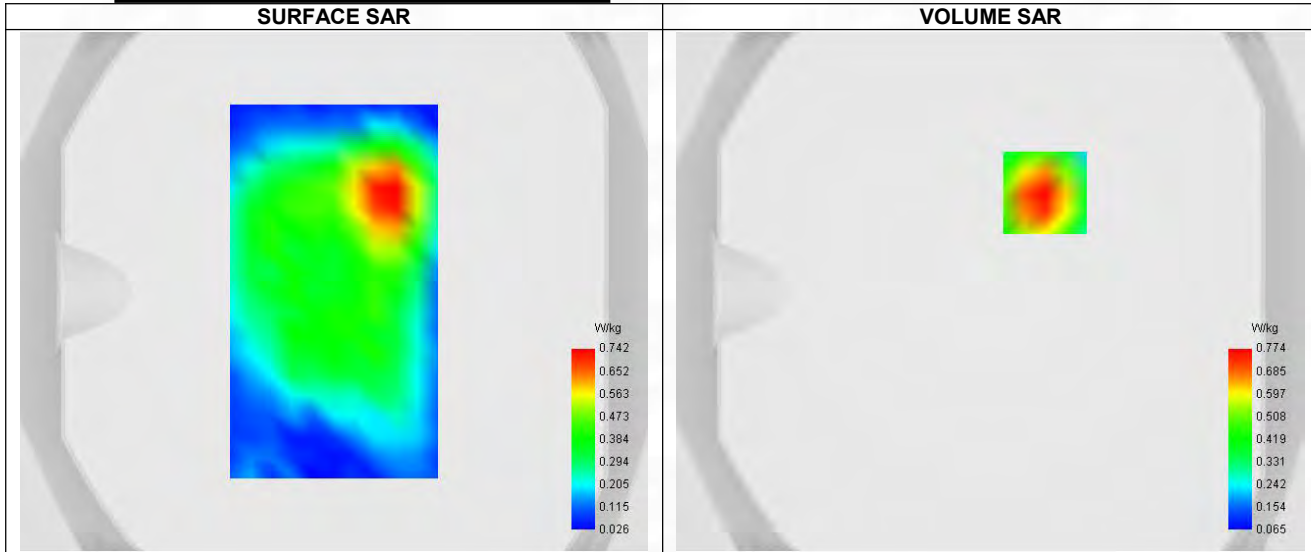
A. Experimental conditions.

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	Body
Band	LTE band 25
Channels	Middle (26365)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1882.590
Relative permittivity (real part)	39.885
Relative permittivity (imaginary part)	13.504
Conductivity (S/m)	1.403

C. SAR Surface and Volume



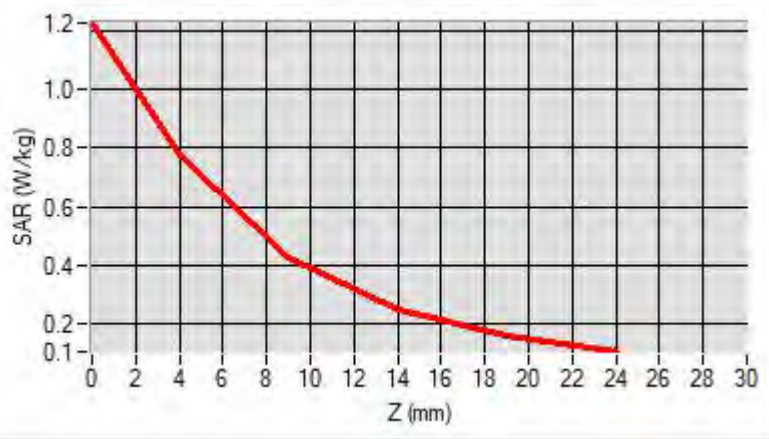
Maximum location: X=21.00, Y=38.00 ; SAR Peak: 1.23 W/kg

D. SAR 1g & 10g

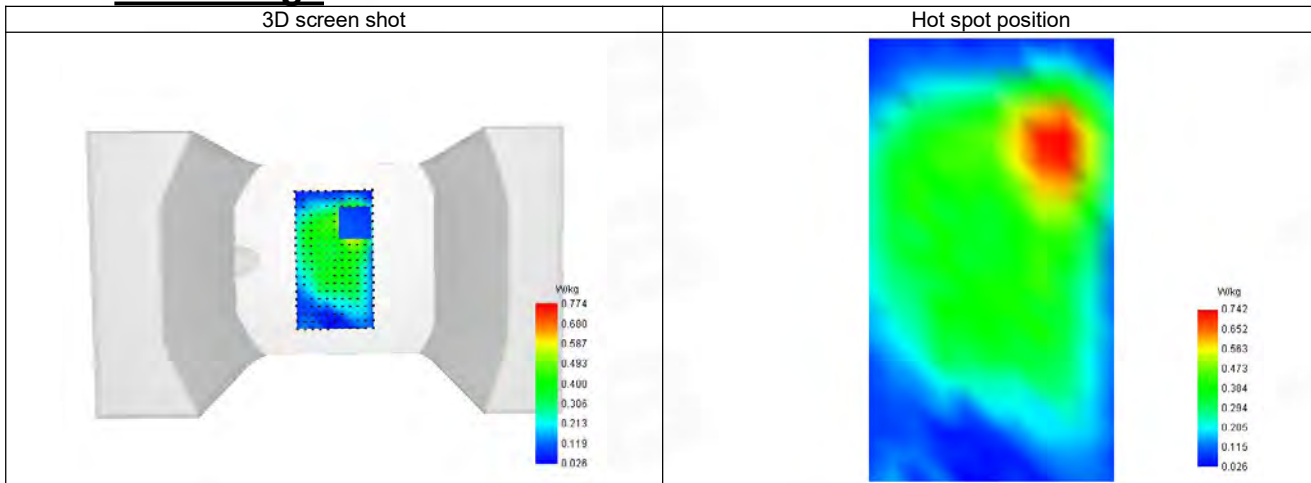
SAR 10g (W/Kg)	0.436
SAR 1g (W/Kg)	0.788
Variation (%)	-2.830
Horizontal validation criteria: minimum distance (mm)	8.699
Vertical validation criteria: SAR ratio M2/M1 (%)	55.30%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.227	0.774	0.428	0.245	0.155



F. 3D Image



27-Head with front position in dist. 0mm on Channel 26740 in LTE band 26 part90

SAR Measurement at LTE band 26 (Cheek, Right)

Date of measurement: 15/8/2024

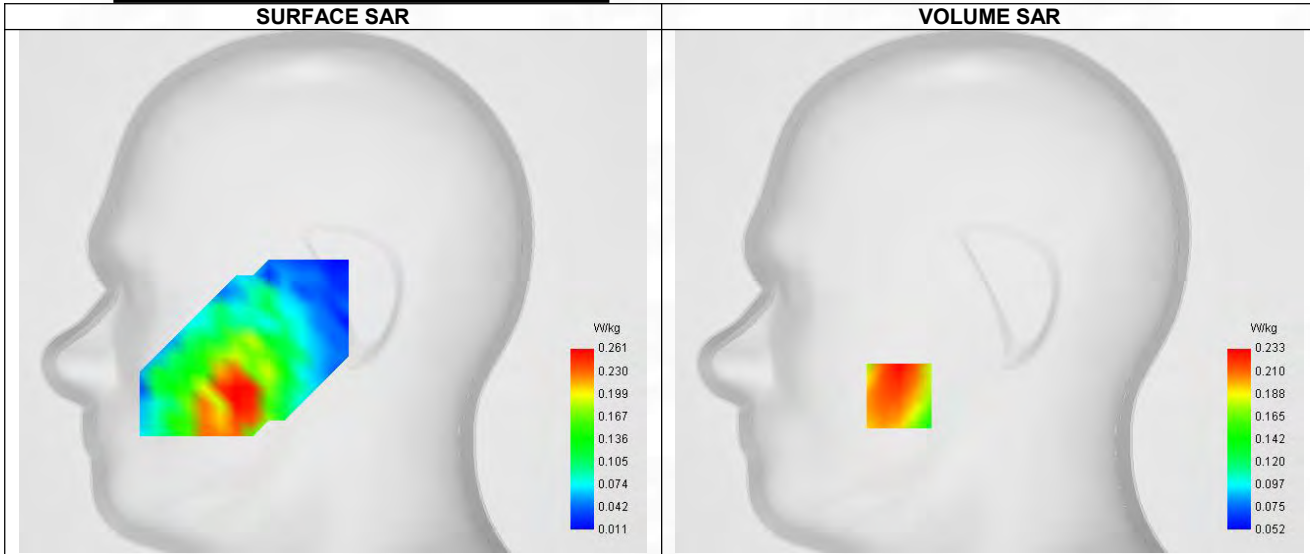
A. Experimental conditions.

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	LTE band 26
Channels	Middle (26740)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	819.090
Relative permittivity (real part)	41.483
Relative permittivity (imaginary part)	19.859
Conductivity (S/m)	0.868

C. SAR Surface and Volume



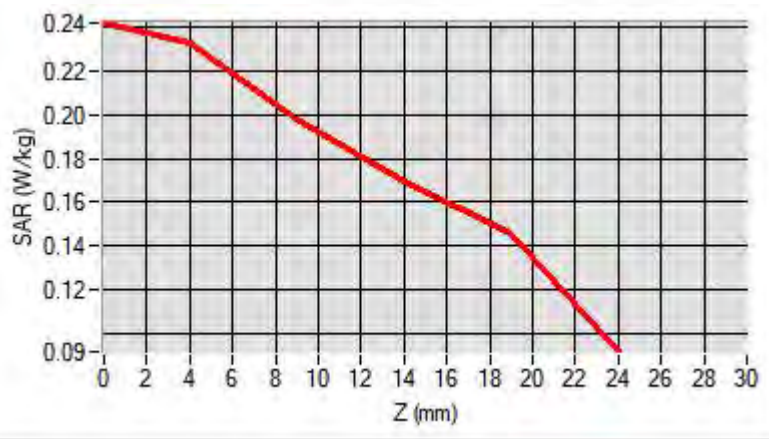
Maximum location: X=-45.00, Y=-52.00 ; SAR Peak: 0.26 W/kg

D. SAR 1g & 10g

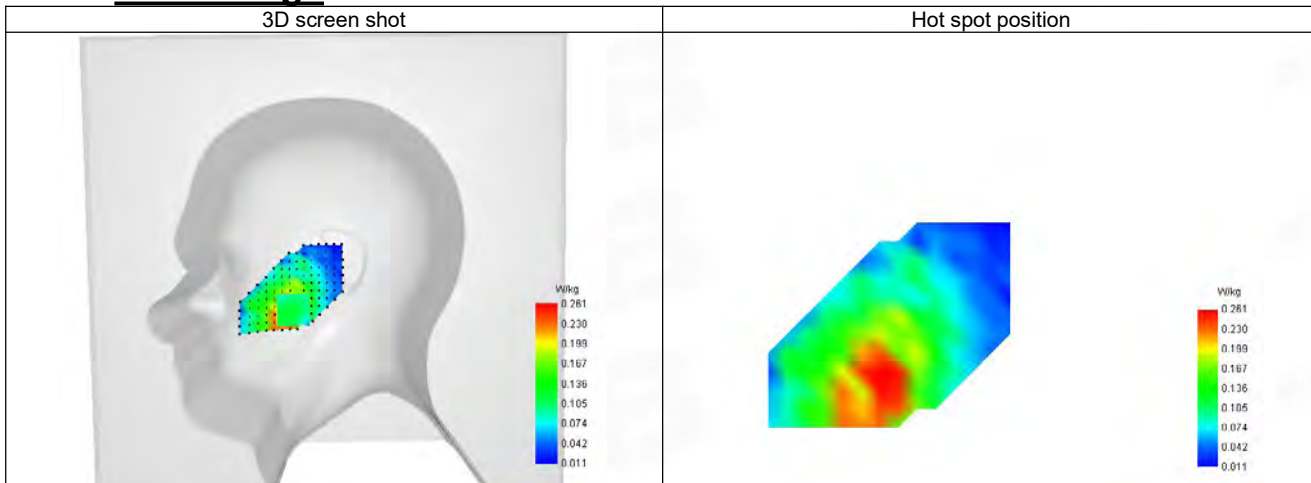
SAR 10g (W/Kg)	0.198
SAR 1g (W/Kg)	0.248
Variation (%)	2.630
Horizontal validation criteria: minimum distance (mm)	9.612
Vertical validation criteria: SAR ratio M2/M1 (%)	59.23%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.242	0.233	0.138	0.109	0.075



F. 3D Image



28-Body with back position in dist. 10mm on Channel 26740 in LTE band 26 part90

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

Date of measurement: 15/8/2024

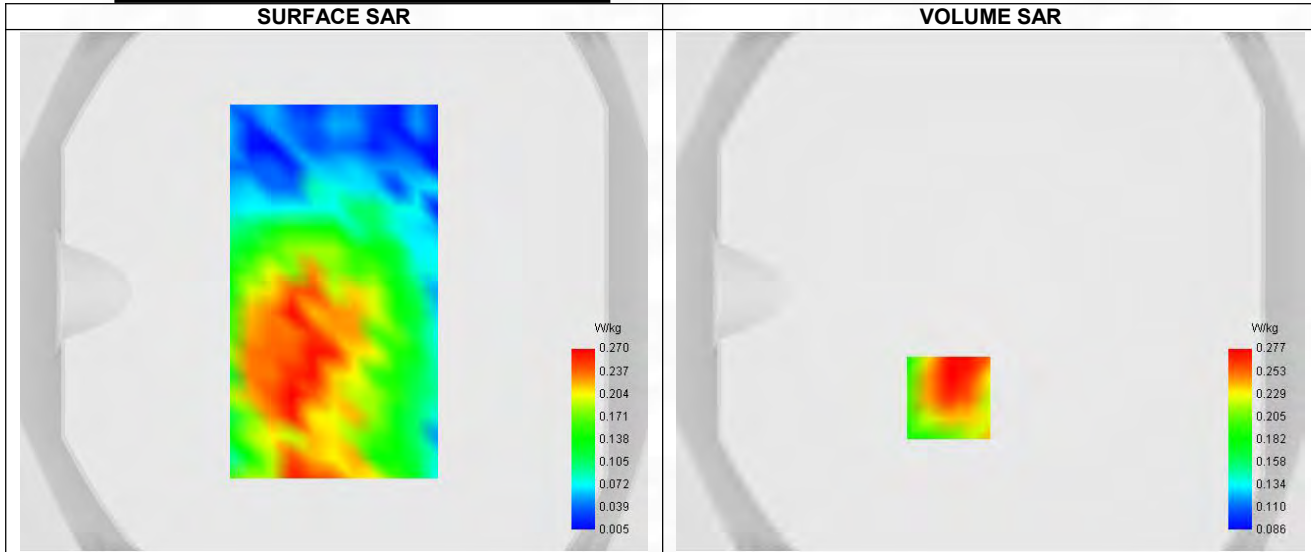
A. Experimental conditions.

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	25
RB size	1

B. Permittivity

Frequency (MHz)	819.090
Relative permittivity (real part)	41.483
Relative permittivity (imaginary part)	19.859
Conductivity (S/m)	0.868

C. SAR Surface and Volume



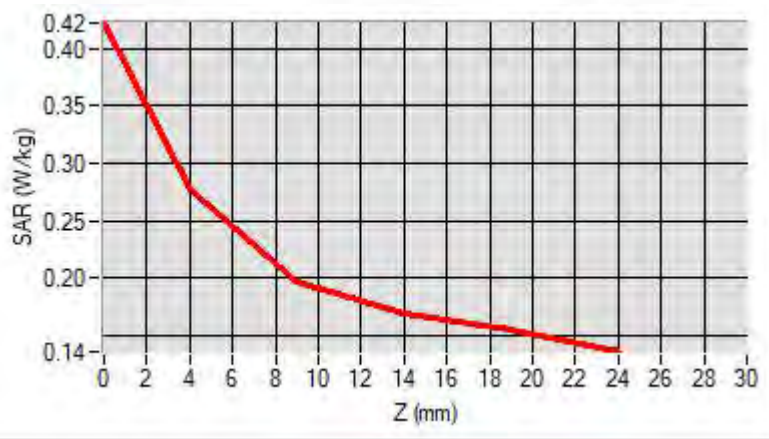
Maximum location: X=-16.00, Y=-41.00 ; SAR Peak: 0.36 W/kg

D. SAR 1g & 10g

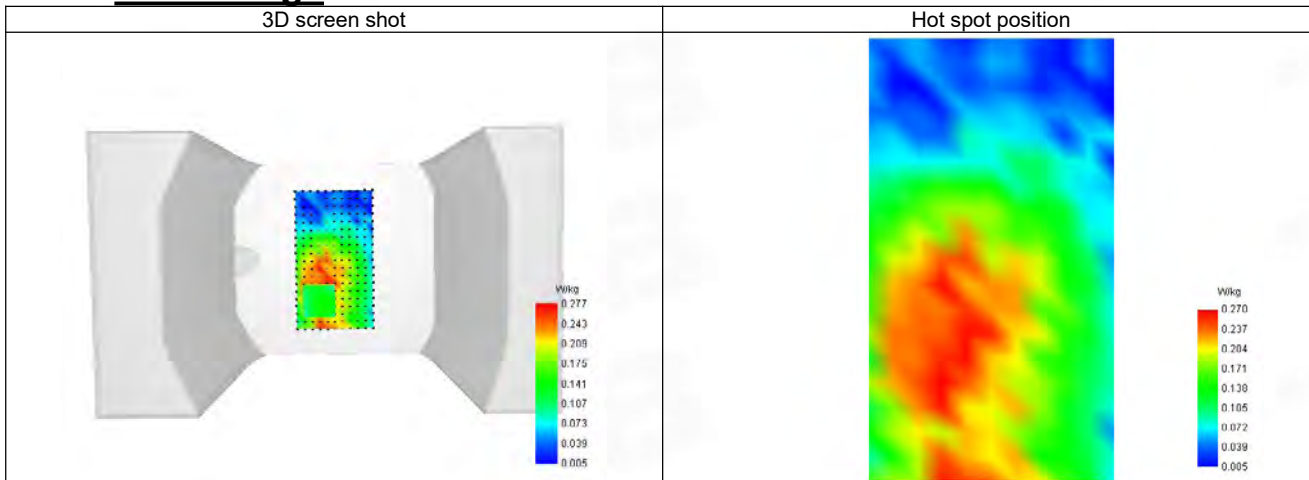
SAR 10g (W/Kg)	0.225
SAR 1g (W/Kg)	0.300
Variation (%)	-4.960
Horizontal validation criteria: minimum distance (mm)	9.477
Vertical validation criteria: SAR ratio M2/M1 (%)	71.12%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.422	0.277	0.197	0.170	0.155



F. 3D Image



29-Head with front position in dist. 0mm on Channel 26865 in LTE band 26 part22

SAR Measurement at LTE band 26 (Cheek, Right)

Date of measurement: 14/8/2024

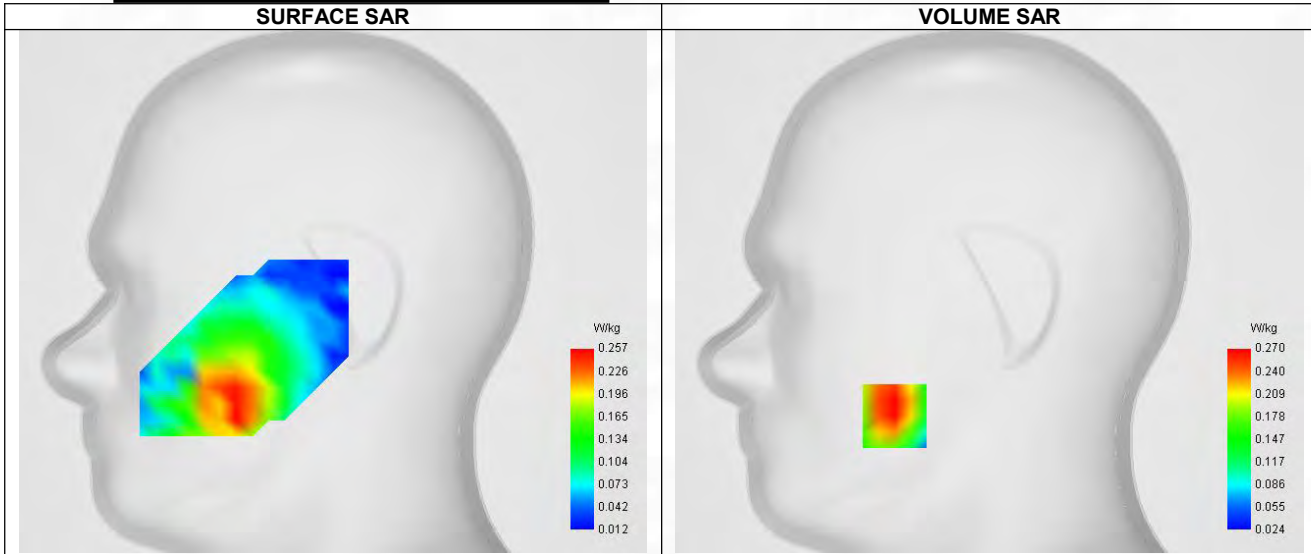
A. Experimental conditions.

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	38
RB size	1

B. Permittivity

Frequency (MHz)	831.680
Relative permittivity (real part)	41.425
Relative permittivity (imaginary part)	19.567
Conductivity (S/m)	0.870

C. SAR Surface and Volume



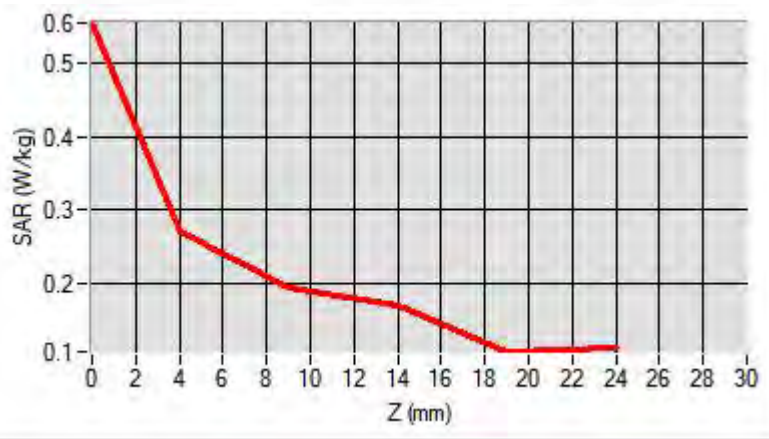
Maximum location: X=-47.00, Y=-62.00 ; SAR Peak: 0.33 W/kg

D. SAR 1g & 10g

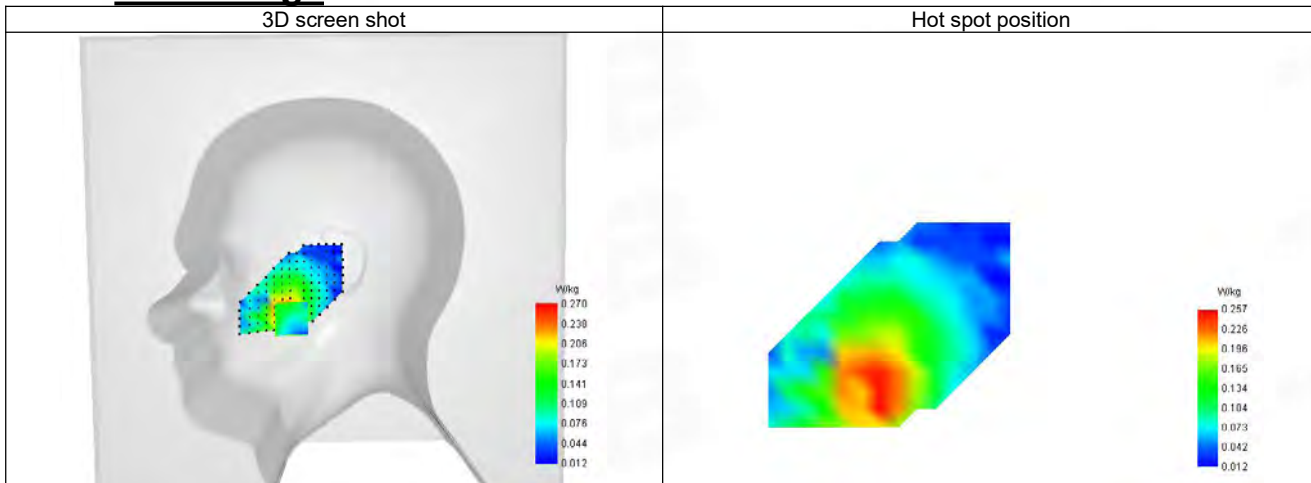
SAR 10g (W/Kg)	0.211
SAR 1g (W/Kg)	0.291
Variation (%)	3.390
Horizontal validation criteria: minimum distance (mm)	11.587
Vertical validation criteria: SAR ratio M2/M1 (%)	64.81%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.555	0.270	0.175	0.140	0.107



F. 3D Image



30-Body with back position in dist. 10mm on Channel 26865 in LTE band 26 part22

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

Date of measurement: 14/8/2024

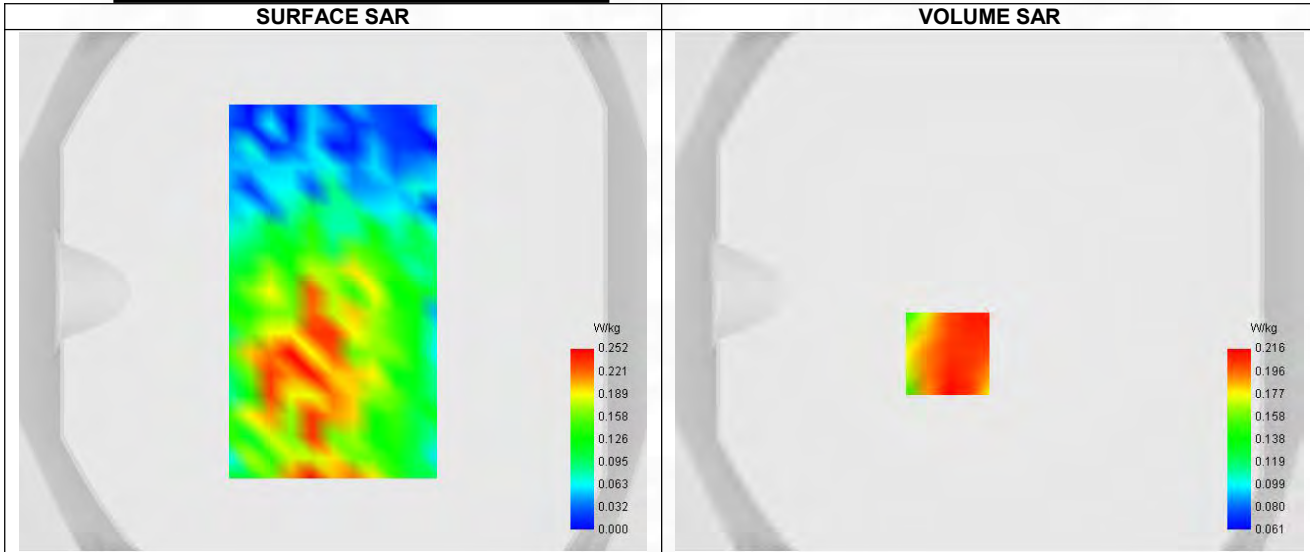
A. Experimental conditions.

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	Lower (26865)
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	38
RB size	1

B. Permittivity

Frequency (MHz)	831.680
Relative permittivity (real part)	41.425
Relative permittivity (imaginary part)	19.567
Conductivity (S/m)	0.870

C. SAR Surface and Volume



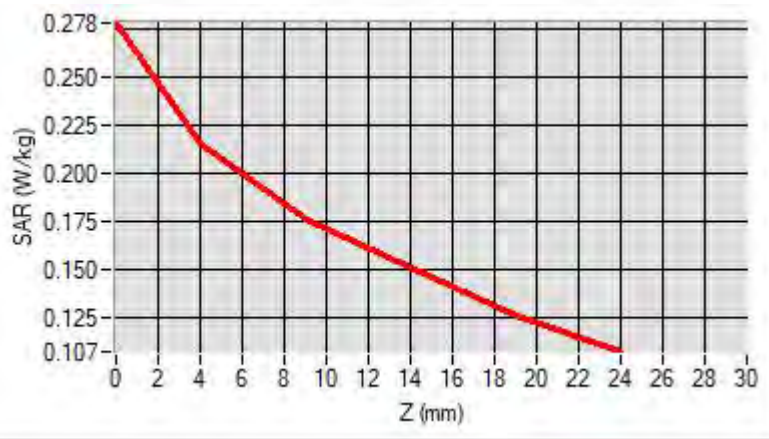
Maximum location: X=-16.00, Y=-24.00 ; SAR Peak: 0.25 W/kg

D. SAR 1g & 10g

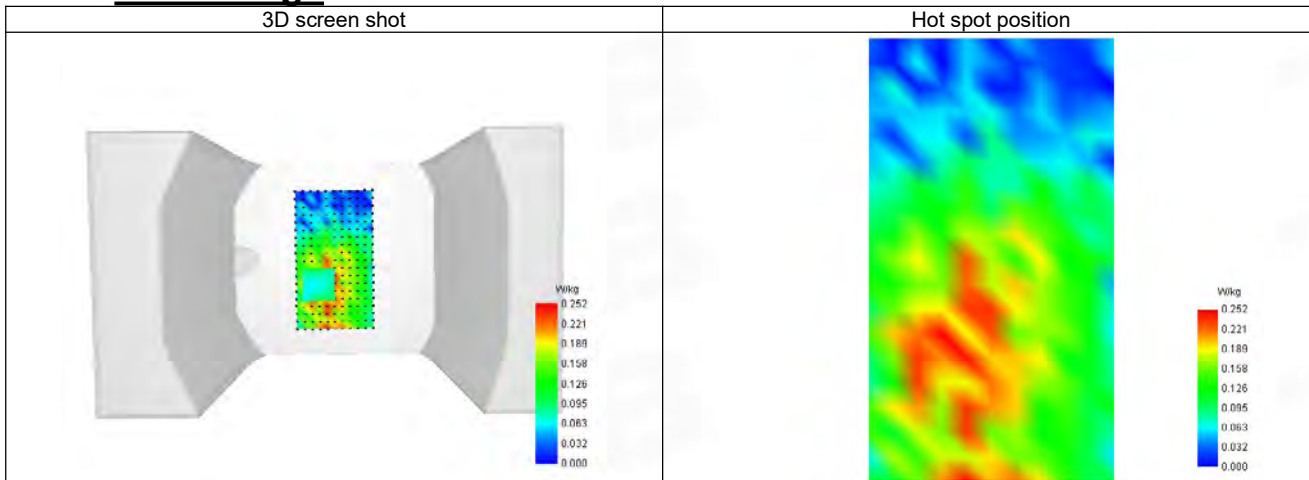
SAR 10g (W/Kg)	0.179
SAR 1g (W/Kg)	0.230
Variation (%)	2.510
Horizontal validation criteria: minimum distance (mm)	9.756
Vertical validation criteria: SAR ratio M2/M1 (%)	72.22%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.278	0.216	0.156	0.130	0.106



F. 3D Image



31-Head with front position in dist. 0mm on Channel 39750 in LTE band 41

SAR Measurement at LTE band 41 (Cheek, Right)

Date of measurement: 23/8/2024

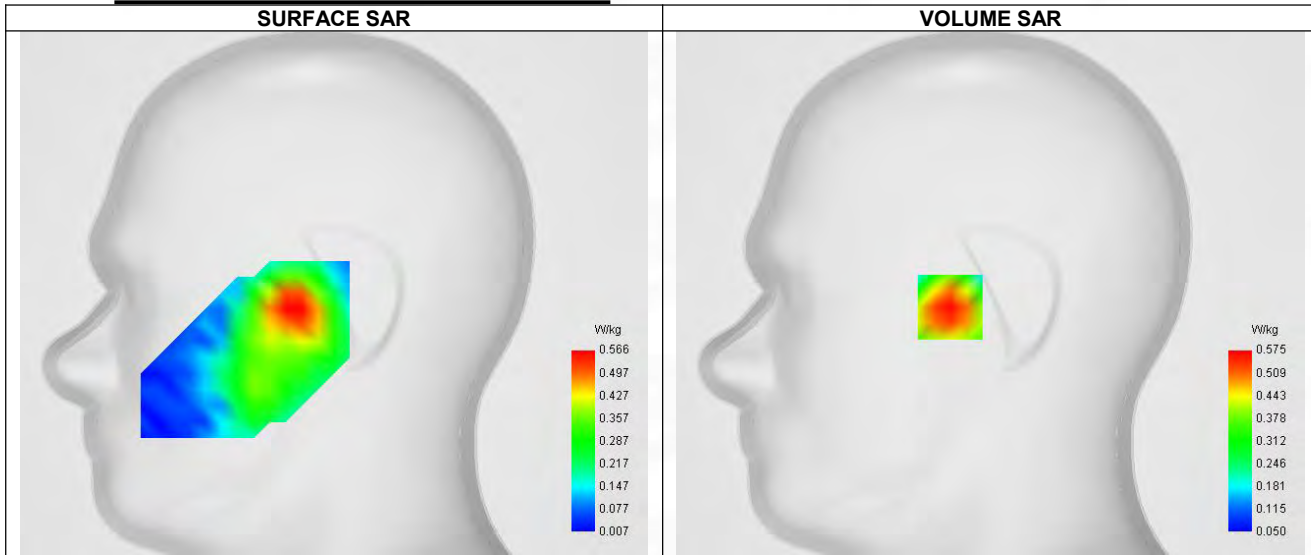
A. Experimental conditions.

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	LTE band 41
Channels	Lower (39750)
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)	2506.090
Relative permittivity (real part)	39.005
Relative permittivity (imaginary part)	13.097
Conductivity (S/m)	1.870

C. SAR Surface and Volume



Maximum location: X=-20.00, Y=-7.00 ; SAR Peak: 0.75 W/kg

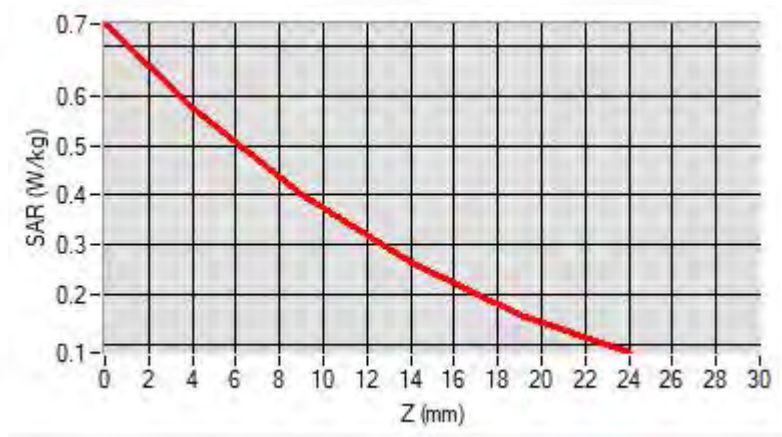
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.347
SAR 1g (W/Kg)	0.562
Variation (%)	2.530
Horizontal validation criteria: minimum distance (mm)	10.465

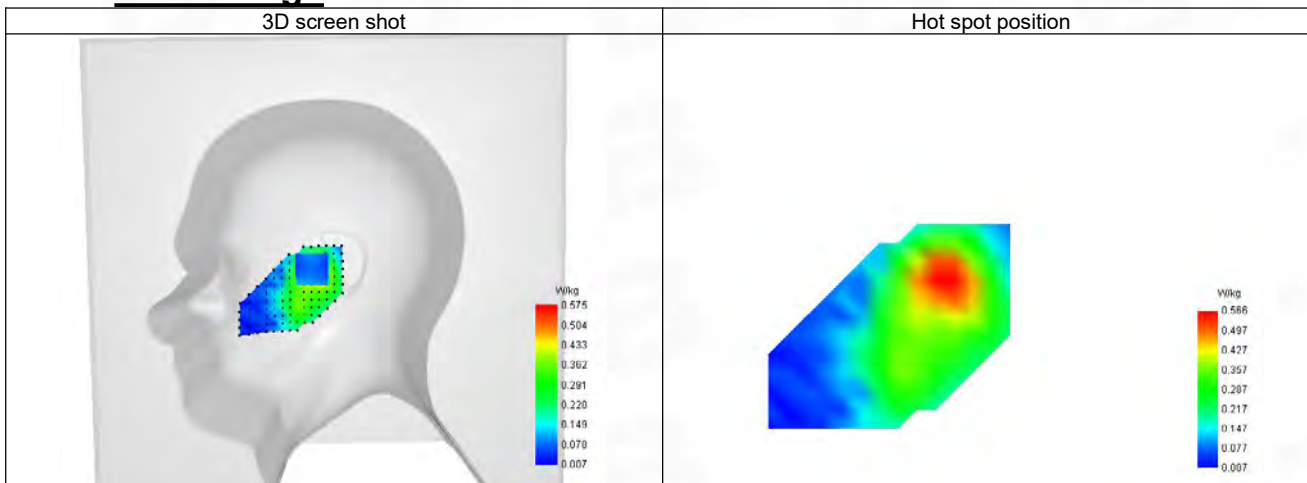
Vertical validation criteria: SAR ratio M2/M1 (%)	69.74%
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E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.744	0.575	0.401	0.264	0.160



F. 3D Image



32-Body with back position in dist. 10mm on Channel 39750 in LTE band 41

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

Date of measurement: 23/8/2024

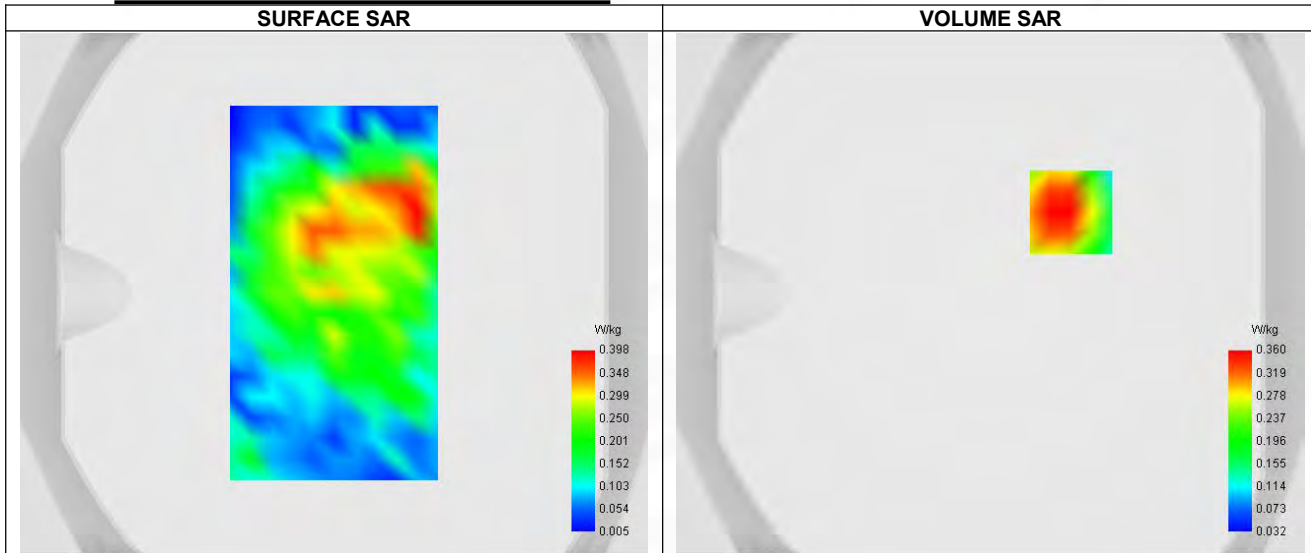
A. Experimental conditions.

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	Validation plane
Device Position	Body
Band	LTE band 41
Channels	Lower (39750)
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)	2506.090
Relative permittivity (real part)	39.005
Relative permittivity (imaginary part)	13.097
Conductivity (S/m)	1.870

C. SAR Surface and Volume



Maximum location: X=31.00, Y=31.00 ; SAR Peak: 0.58 W/kg

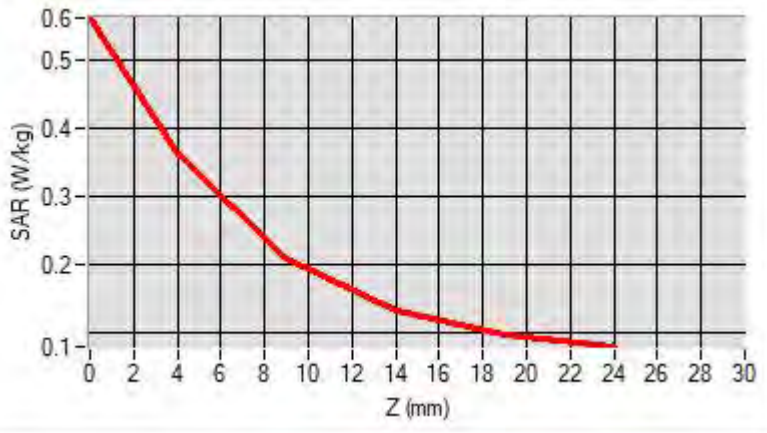
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.220
SAR 1g (W/Kg)	0.363
Variation (%)	-4.860
Horizontal validation criteria: minimum distance (mm)	11.366

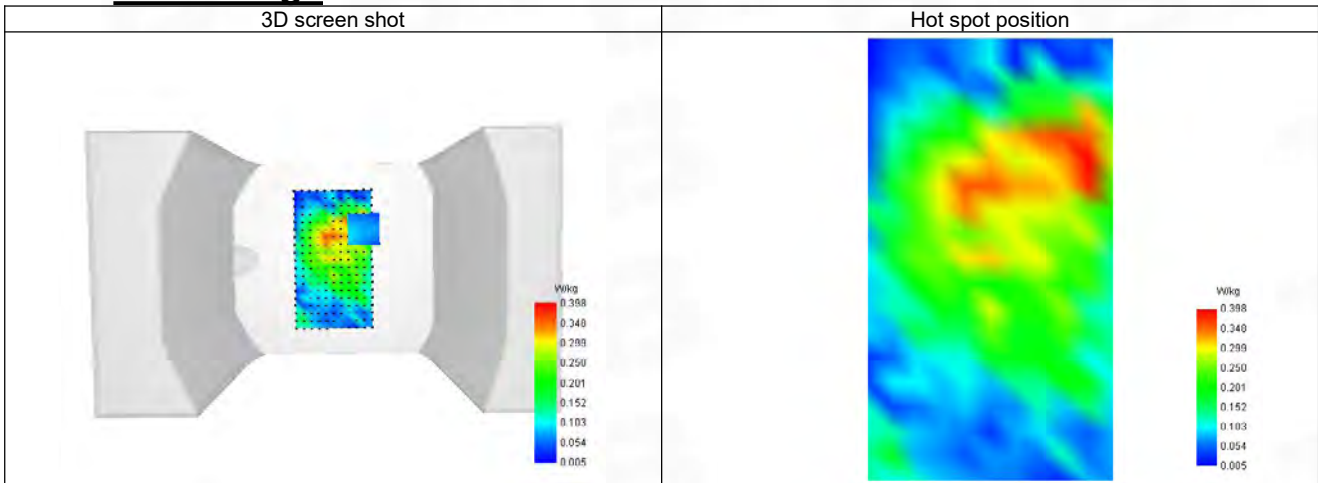
Vertical validation criteria: SAR ratio M2/M1 (%)	57.78%
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E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.561	0.360	0.208	0.132	0.097



F. 3D Image



33-Head with front position in dist. 0mm on Channel 132072 in LTE band 66

SAR Measurement at LTE band 66 (Cheek, Right)

Date of measurement: 16/8/2024

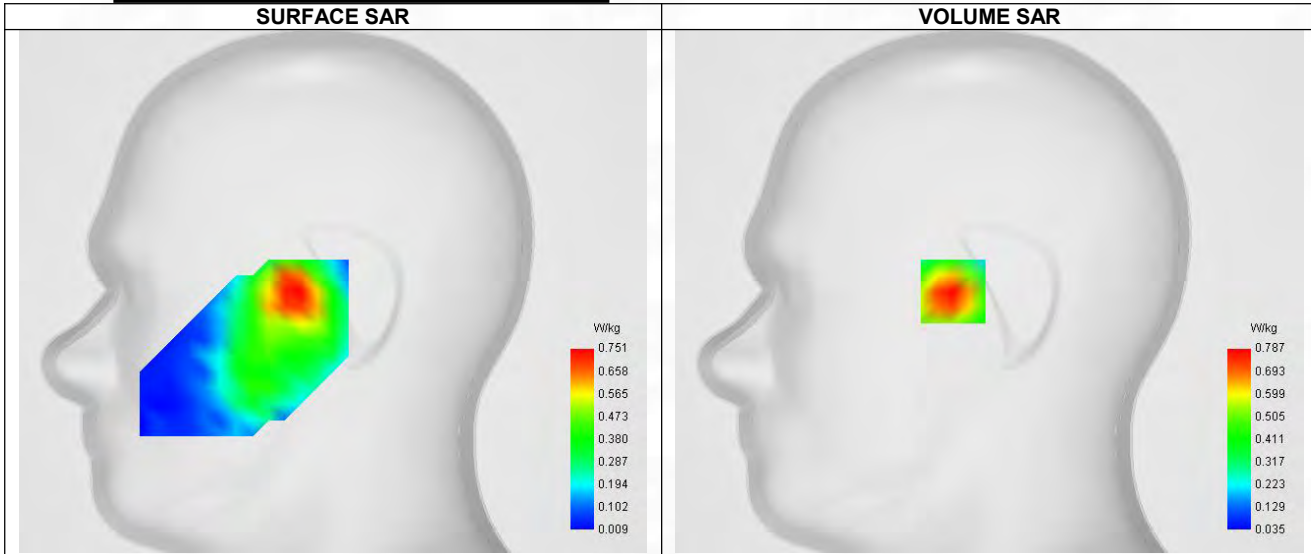
A. Experimental conditions.

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	Right head
Device Position	Cheek
Band	LTE band 66
Channels	Lower (132072)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1720.090
Relative permittivity (real part)	40.034
Relative permittivity (imaginary part)	14.537
Conductivity (S/m)	1.329

C. SAR Surface and Volume



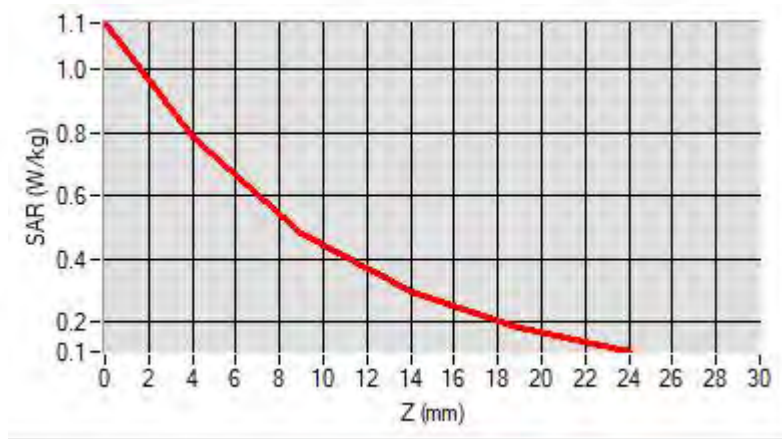
Maximum location: X=-18.00, Y=0.00 ; SAR Peak: 1.18 W/kg

D. SAR 1g & 10g

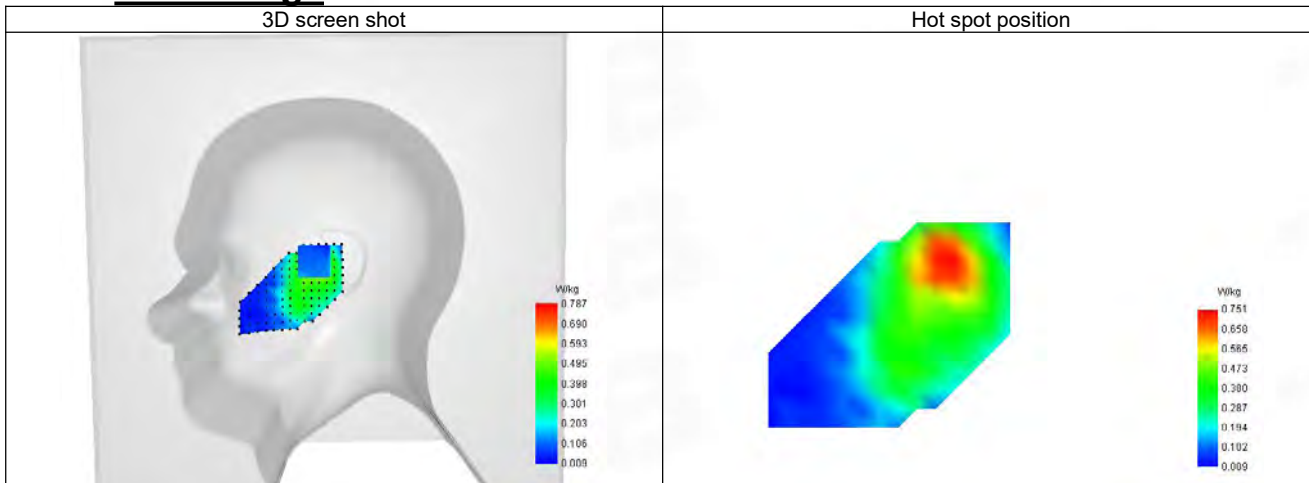
SAR 10g (W/Kg)	0.416
SAR 1g (W/Kg)	0.751
Variation (%)	0.400
Horizontal validation criteria: minimum distance (mm)	10.256
Vertical validation criteria: SAR ratio M2/M1 (%)	61.25%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.147	0.787	0.482	0.294	0.181



F. 3D Image



34-Body with back position in dist. 10mm on Channel 132072 in LTE band 66

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

Date of measurement: 15/8/2024

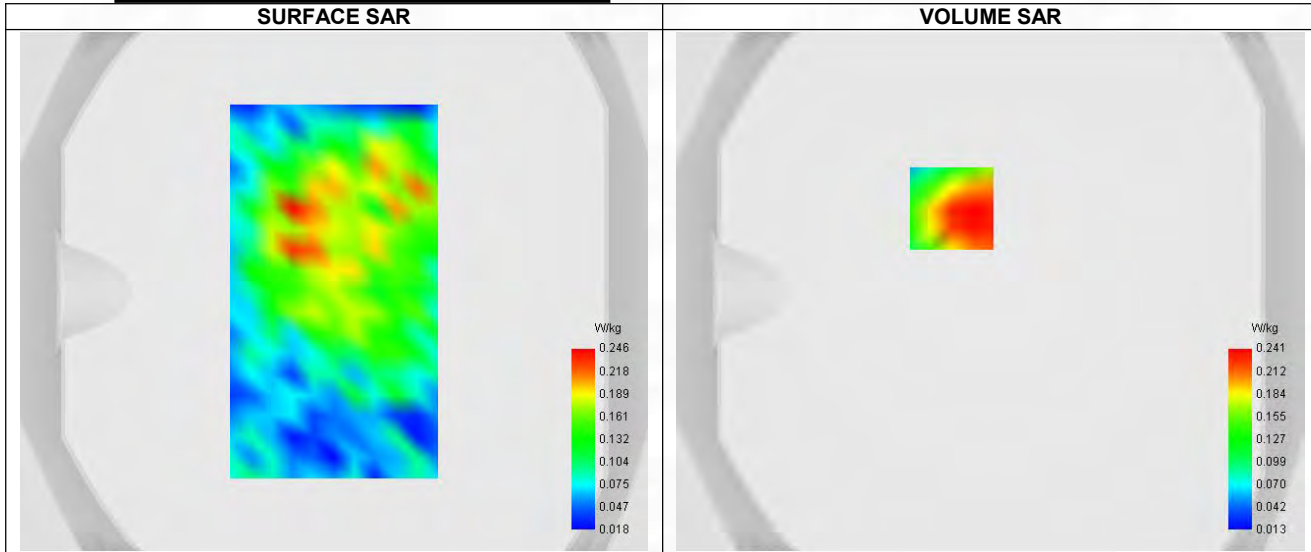
A. Experimental conditions.

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	Body
Band	LTE band 66
Channels	Lower (132072)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1720.090
Relative permittivity (real part)	40.034
Relative permittivity (imaginary part)	14.537
Conductivity (S/m)	1.329

C. SAR Surface and Volume

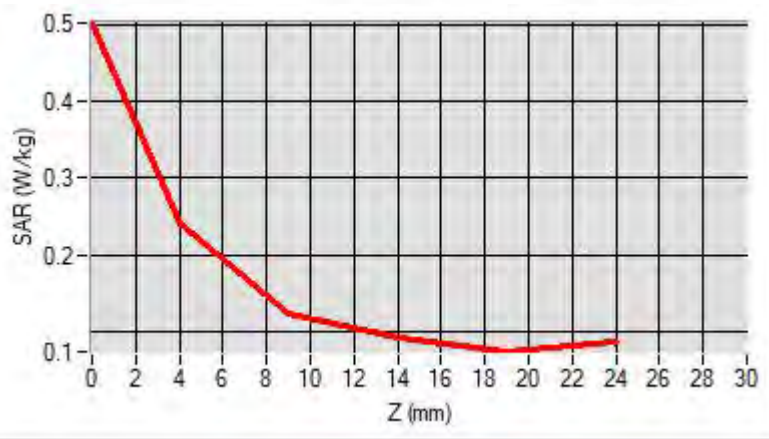


D. SAR 1g & 10g

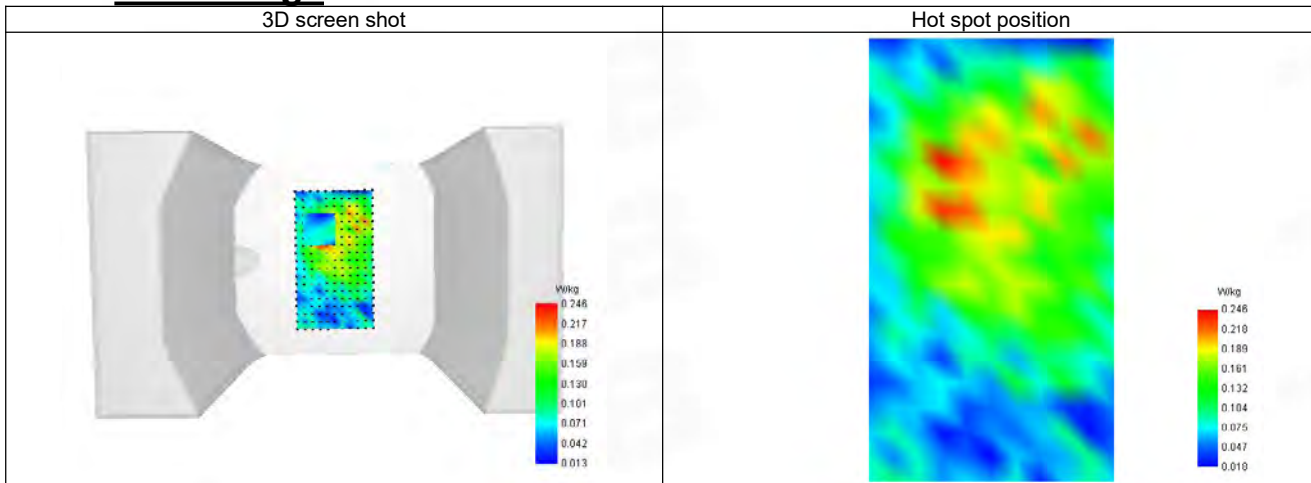
SAR 10g (W/Kg)	0.151
SAR 1g (W/Kg)	0.246
Variation (%)	-3.770
Horizontal validation criteria: minimum distance (mm)	9.651
Vertical validation criteria: SAR ratio M2/M1 (%)	51.04%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.502	0.241	0.123	0.091	0.073



F. 3D Image



35-Head with front position in dist. 0mm on Channel 133372 in LTE band 71

SAR Measurement at LTE band 71 (Cheek, Right)

Date of measurement: 12/8/2024

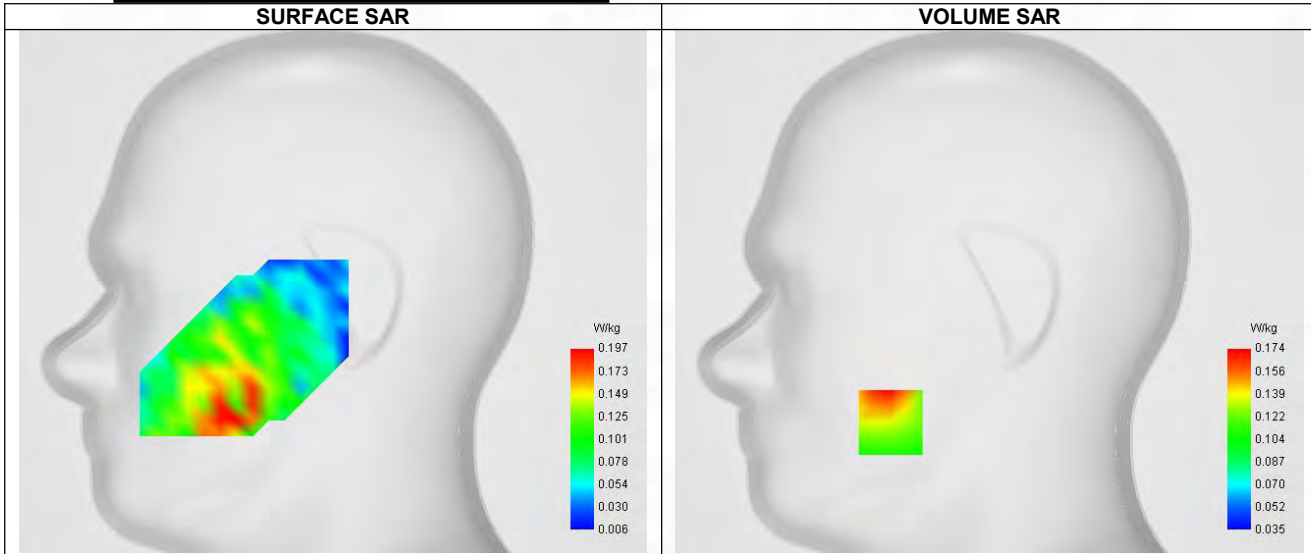
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.65
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	Higher (133372)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	688.090
Relative permittivity (real part)	42.084
Relative permittivity (imaginary part)	22.895
Conductivity (S/m)	0.853

C. SAR Surface and Volume



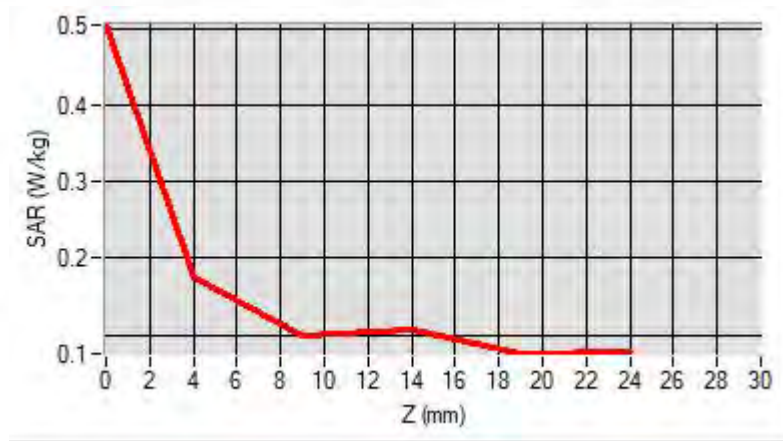
Maximum location: X=-49.00, Y=-65.00 ; SAR Peak: 0.22 W/kg

D. SAR 1g & 10g

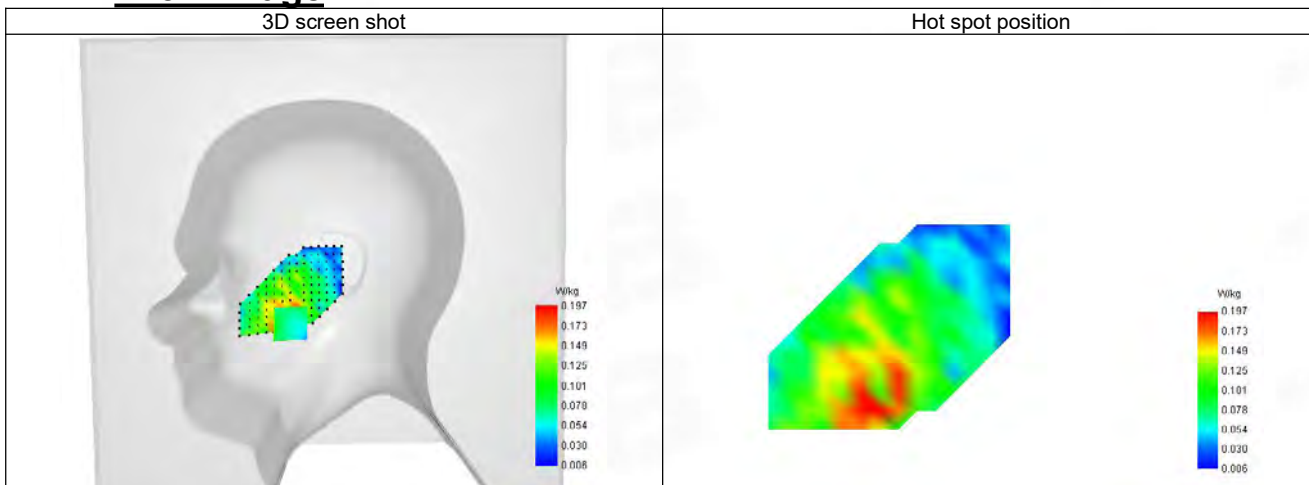
SAR 10g (W/Kg)	0.143
SAR 1g (W/Kg)	0.180
Variation (%)	-2.610
Horizontal validation criteria: minimum distance (mm)	11.478
Vertical validation criteria: SAR ratio M2/M1 (%)	56.90%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.505	0.174	0.099	0.108	0.075



F. 3D Image



36-Body with back position in dist. 10mm on Channel 133372 in LTE band 71

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

Date of measurement: 12/8/2024

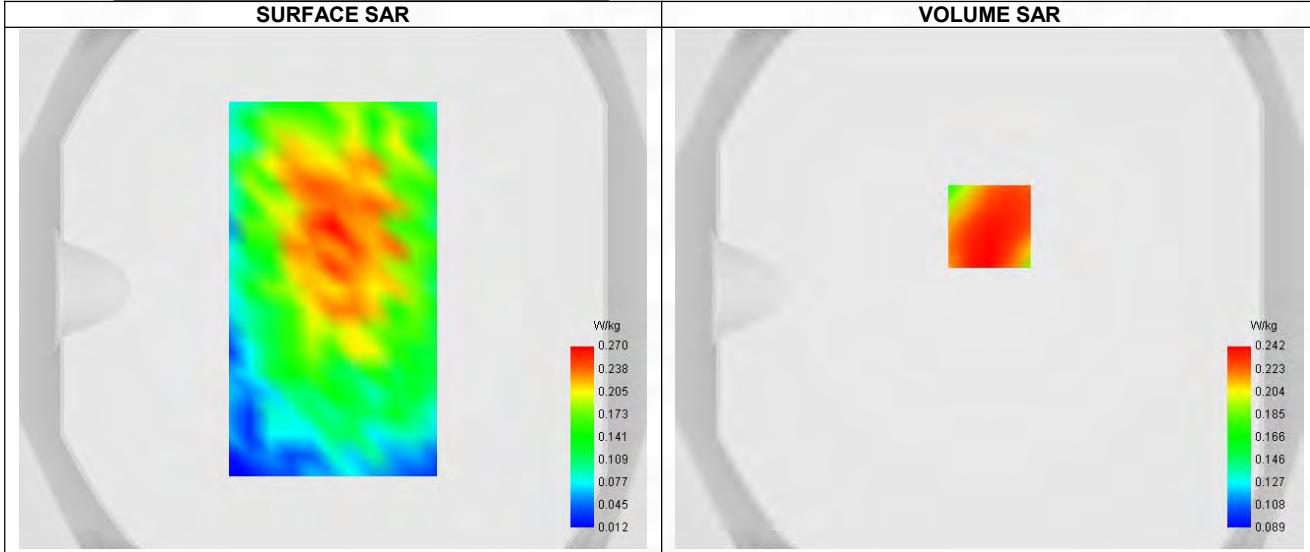
A. Experimental conditions.

Probe	SN 04/22 EPG0365
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	Body
Band	LTE band 71
Channels	Higher (133372)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	688.090
Relative permittivity (real part)	42.084
Relative permittivity (imaginary part)	22.895
Conductivity (S/m)	0.853

C. SAR Surface and Volume



Maximum location: X=0.00, Y=24.00 ; SAR Peak: 0.31 W/kg

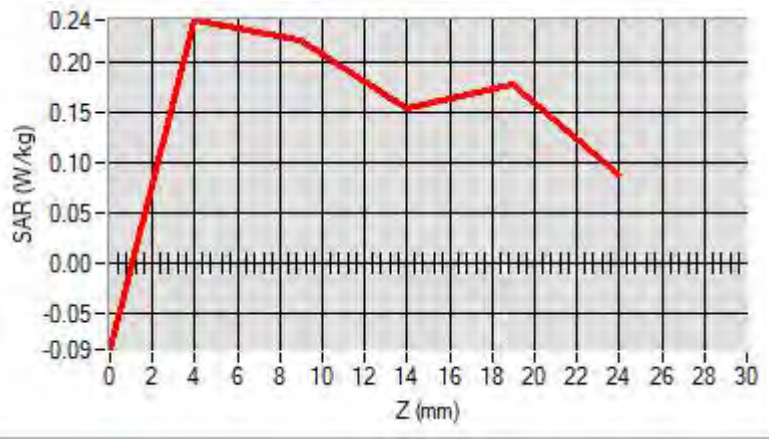
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.211
SAR 1g (W/Kg)	0.264
Variation (%)	-1.840
Horizontal validation criteria: minimum distance (mm)	9.565
Vertical validation criteria: SAR ratio M2/M1 (%)	75.21%

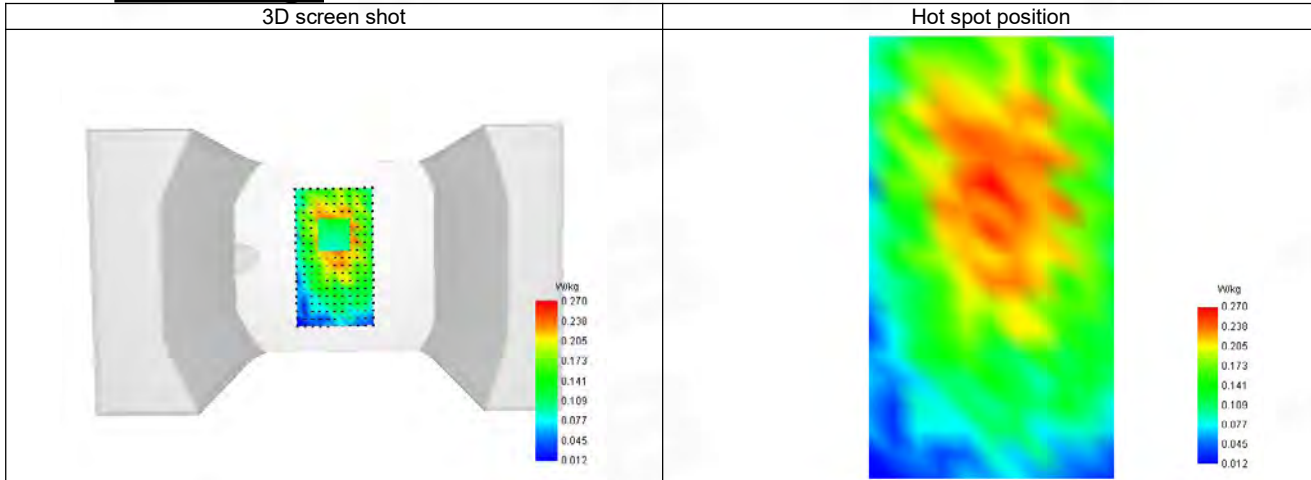
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	-0.086	0.242	0.182	0.155	0.179
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F. 3D Image



37-Head with front position in dist. 0mm on Channel 6 in IEEE 802.11b ISM

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

Date of measurement: 22/8/2024

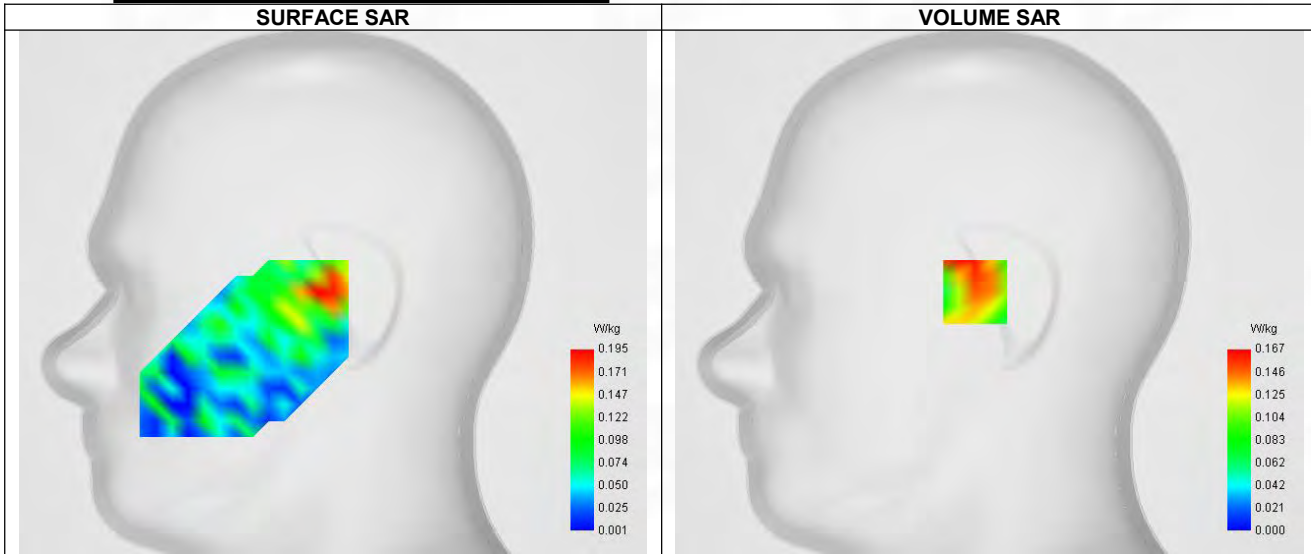
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.36
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Middle (6)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	2437.000
Relative permittivity (real part)	39.099
Relative permittivity (imaginary part)	13.341
Conductivity (S/m)	1.801

C. SAR Surface and Volume



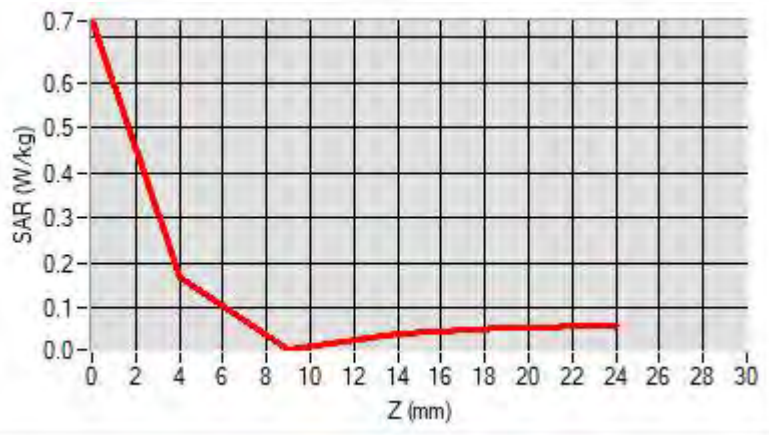
Maximum location: X=-7.00, Y=0.00 ; SAR Peak: 0.39 W/kg

D. SAR 1g & 10g

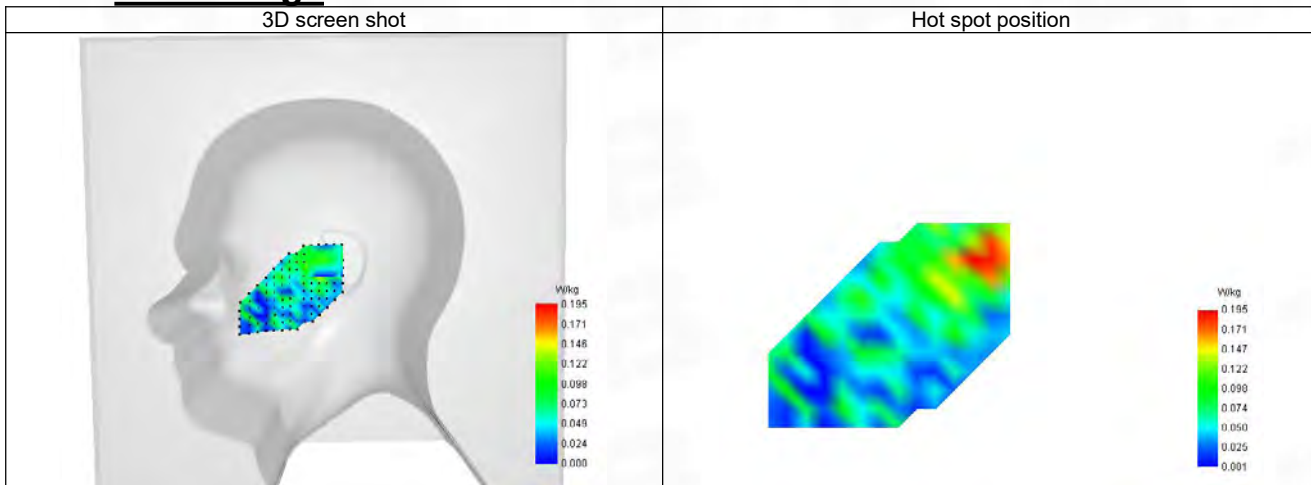
SAR 10g (W/Kg)	0.127
SAR 1g (W/Kg)	0.185
Variation (%)	-2.600
Horizontal validation criteria: minimum distance (mm)	8.235
Vertical validation criteria: SAR ratio M2/M1 (%)	52.10%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.337	0.167	0.087	0.044	0.056



F. 3D Image



38-Body with back position in dist. 10mm on Channel 6 in IEEE 802.11b ISM

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

Date of measurement: 22/8/2024

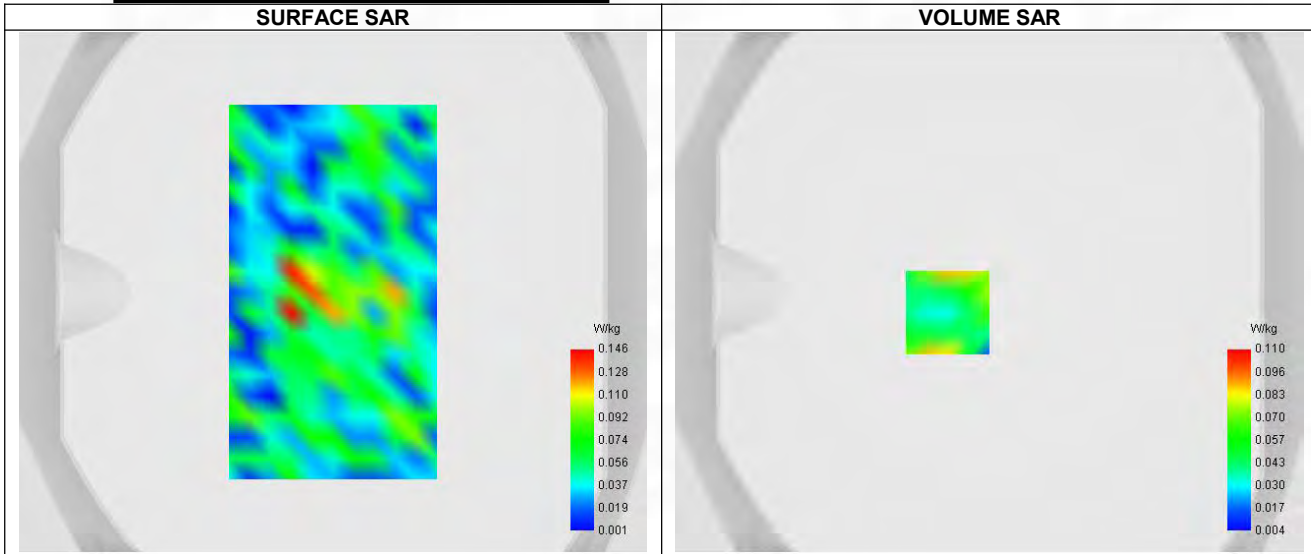
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.36
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Middle (6)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	2437.000
Relative permittivity (real part)	39.099
Relative permittivity (imaginary part)	13.341
Conductivity (S/m)	1.801

C. SAR Surface and Volume



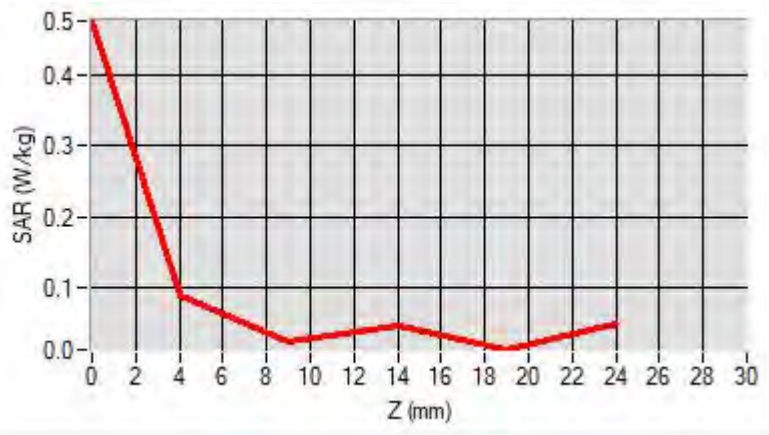
Maximum location: X=-16.00, Y=-8.00 ; SAR Peak: 0.25 W/kg

D. SAR 1g & 10g

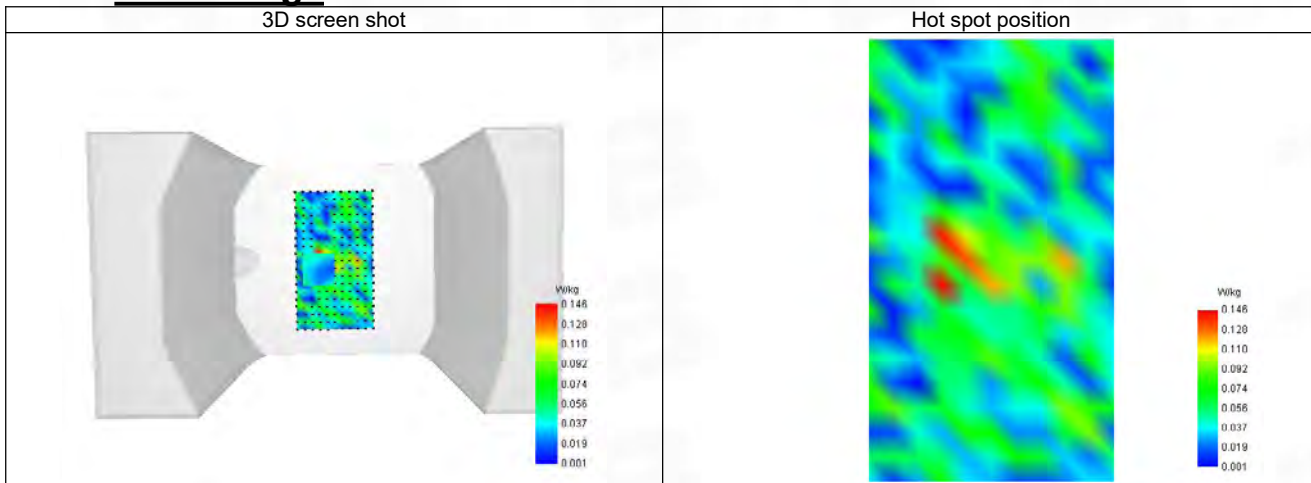
SAR 10g (W/Kg)	0.060
SAR 1g (W/Kg)	0.132
Variation (%)	3.570
Horizontal validation criteria: minimum distance (mm)	8.650
Vertical validation criteria: SAR ratio M2/M1 (%)	56.36%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.476	0.110	0.062	0.045	0.012



F. 3D Image



39-Head with front position in dist. 0mm on Channel 48 in IEEE 802.11a U-NII

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

Date of measurement: 26/8/2024

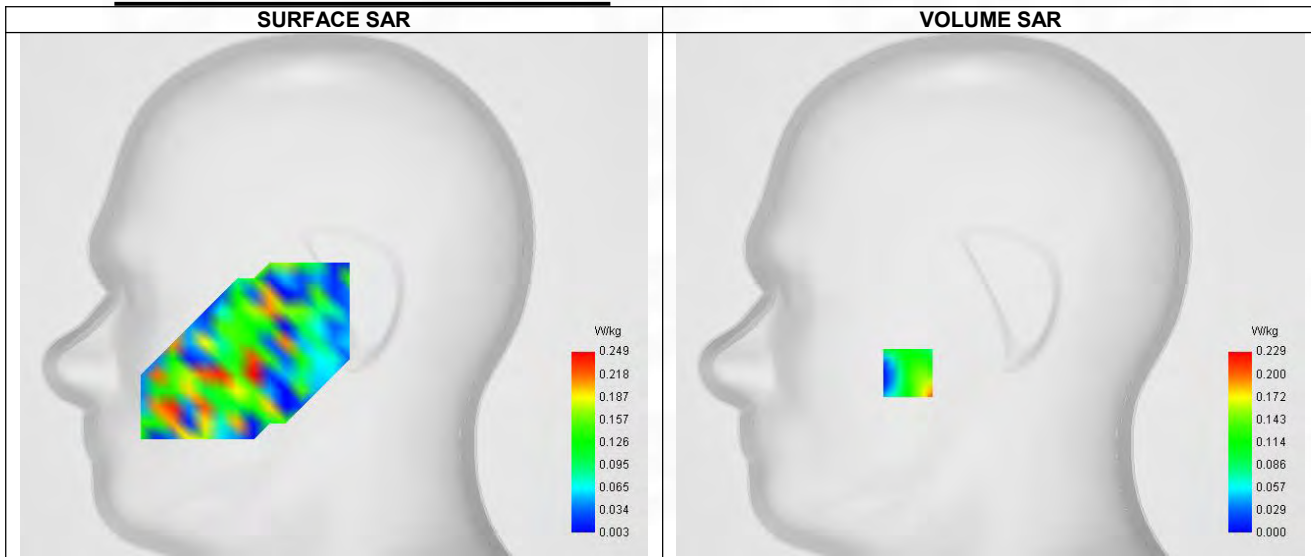
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.24
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 802.11a U-NII
Channels	Higher (48)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5240.000
Relative permittivity (real part)	35.840
Relative permittivity (imaginary part)	16.264
Conductivity (S/m)	4.740

C. SAR Surface and Volume



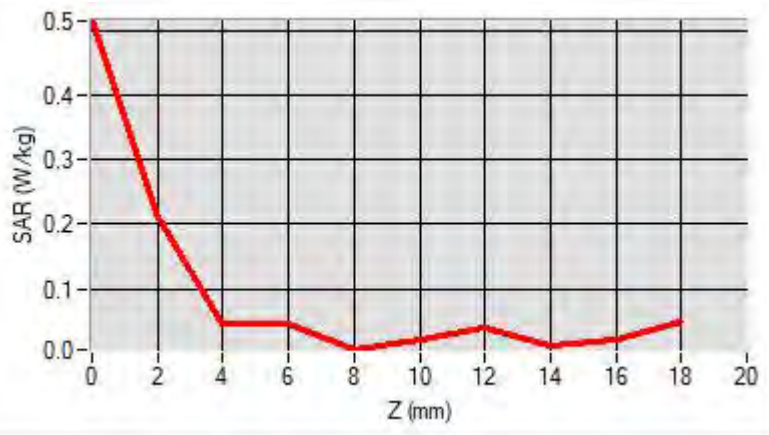
Maximum location: X=-41.00, Y=-39.00 ; SAR Peak: 0.70 W/kg

D. SAR 1g & 10g

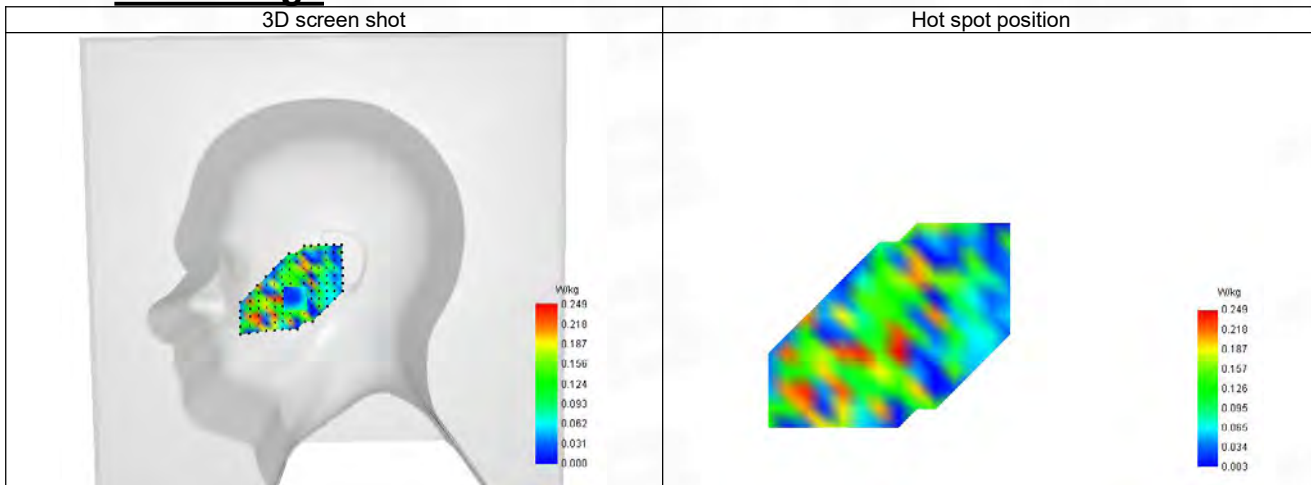
SAR 10g (W/Kg)	0.092
SAR 1g (W/Kg)	0.225
Variation (%)	2.210
Horizontal validation criteria: minimum distance (mm)	6.454
Vertical validation criteria: SAR ratio M2/M1 (%)	68.72%

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)	0.514	0.211	0.145	0.046	0.006	0.020	0.039	0.011	0.020



F. 3D Image



40-Body with back position in dist. 10mm on Channel 48 in IEEE 802.11a U-NII

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

Date of measurement: 26/8/2024

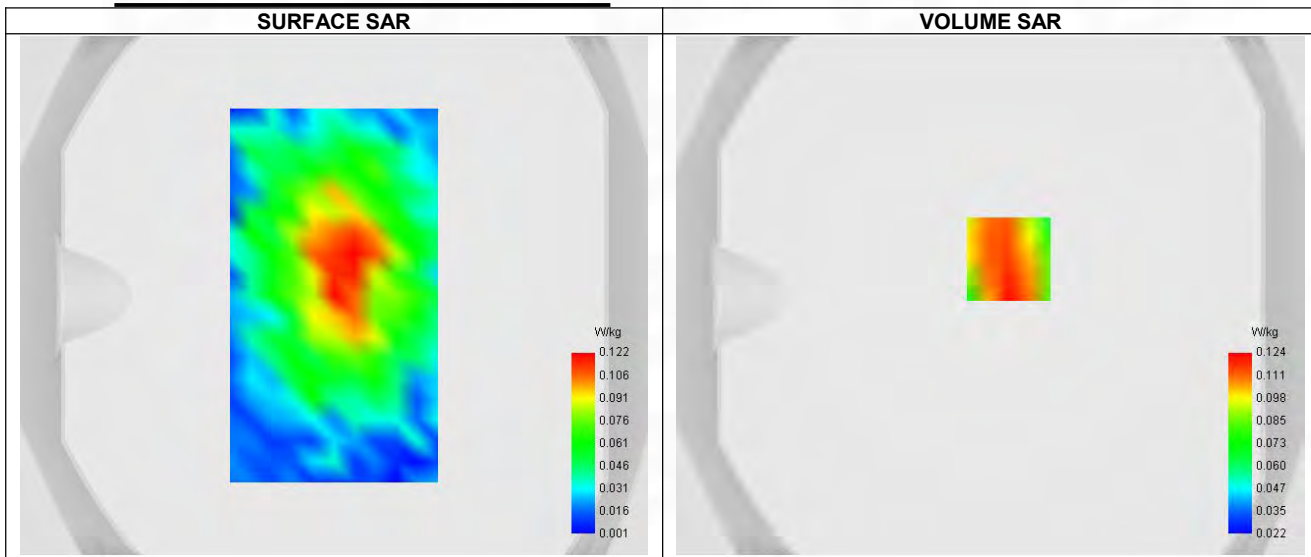
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	Body
Band	IEEE 802.11a U-NII
Channels	Higher (48)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5240.000
Relative permittivity (real part)	35.840
Relative permittivity (imaginary part)	16.264
Conductivity (S/m)	4.740

C. SAR Surface and Volume



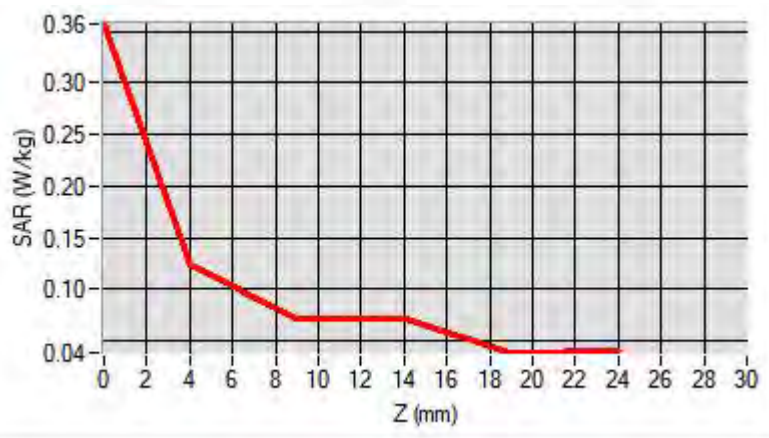
Maximum location: X=-8.00, Y=-57.00 ; SAR Peak: 0.35 W/kg

D. SAR 1g & 10g

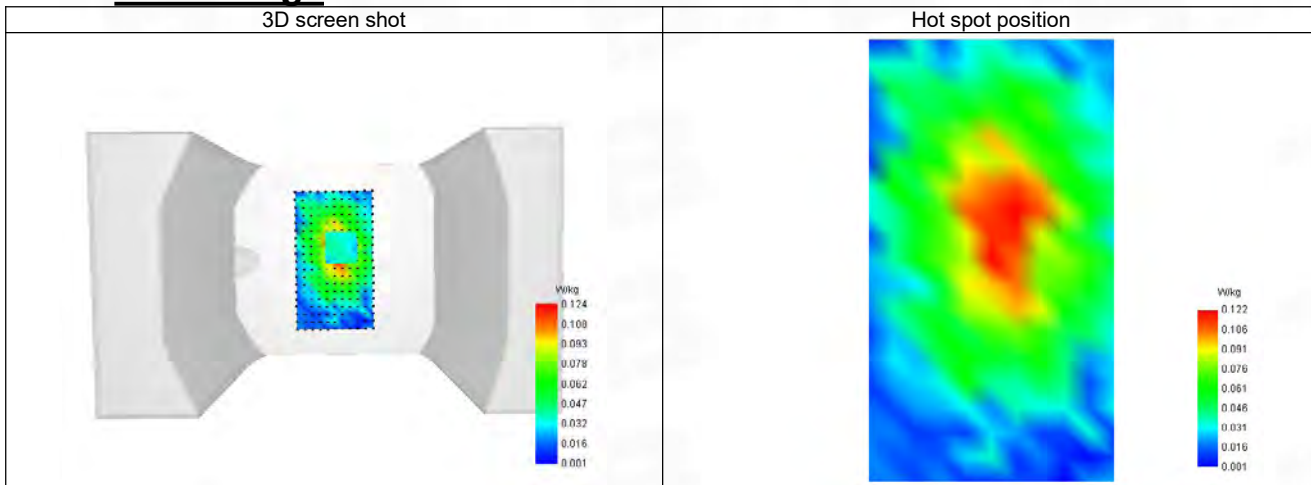
SAR 10g (W/Kg)	0.088
SAR 1g (W/Kg)	0.130
Variation (%)	-2.650
Horizontal validation criteria: minimum distance (mm)	9.332
Vertical validation criteria: SAR ratio M2/M1 (%)	60.48%

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)	0.384	0.124	0.075	0.027	0.105	0.110	0.126	0.004	0.005



F. 3D Image



41-Head with front position in dist. 0mm on Channel 52 in IEEE 802.11a U-NII

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

Date of measurement: 27/8/2024

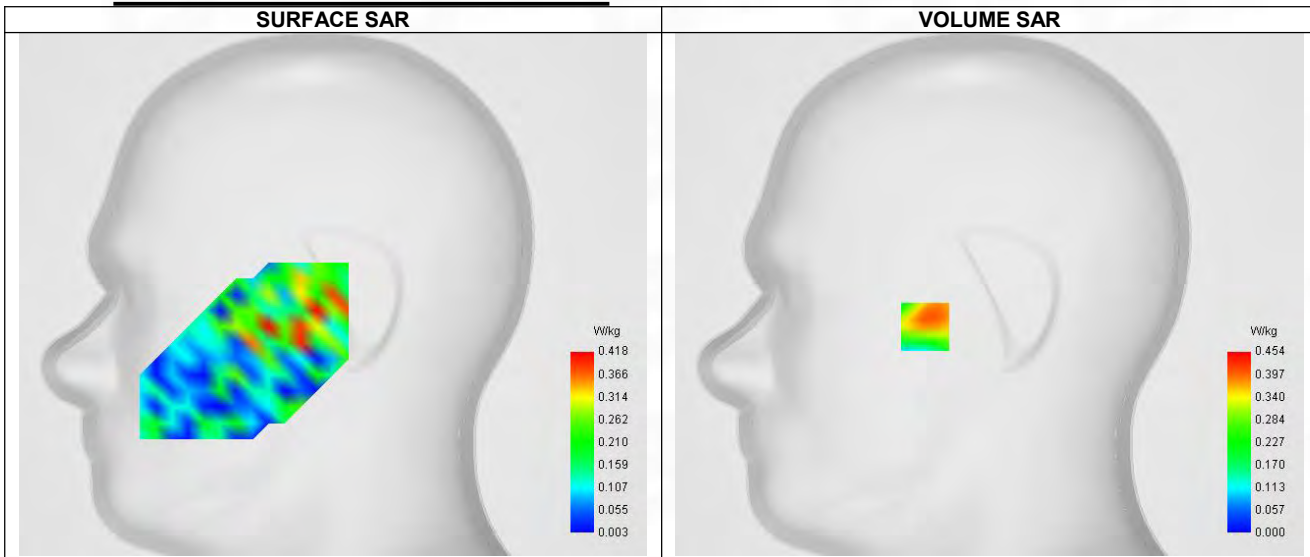
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.24
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 802.11a U-NII
Channels	Lower (52)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5260.000
Relative permittivity (real part)	35.820
Relative permittivity (imaginary part)	16.271
Conductivity (S/m)	4.760

C. SAR Surface and Volume



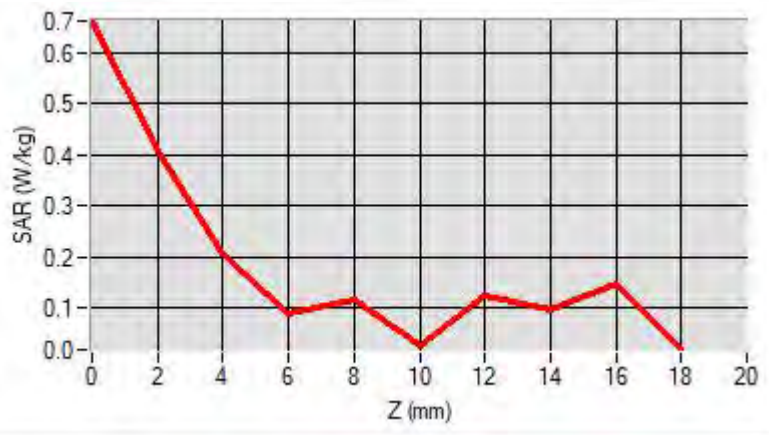
Maximum location: X=-32.00, Y=-16.00 ; SAR Peak: 1.42 W/kg

D. SAR 1g & 10g

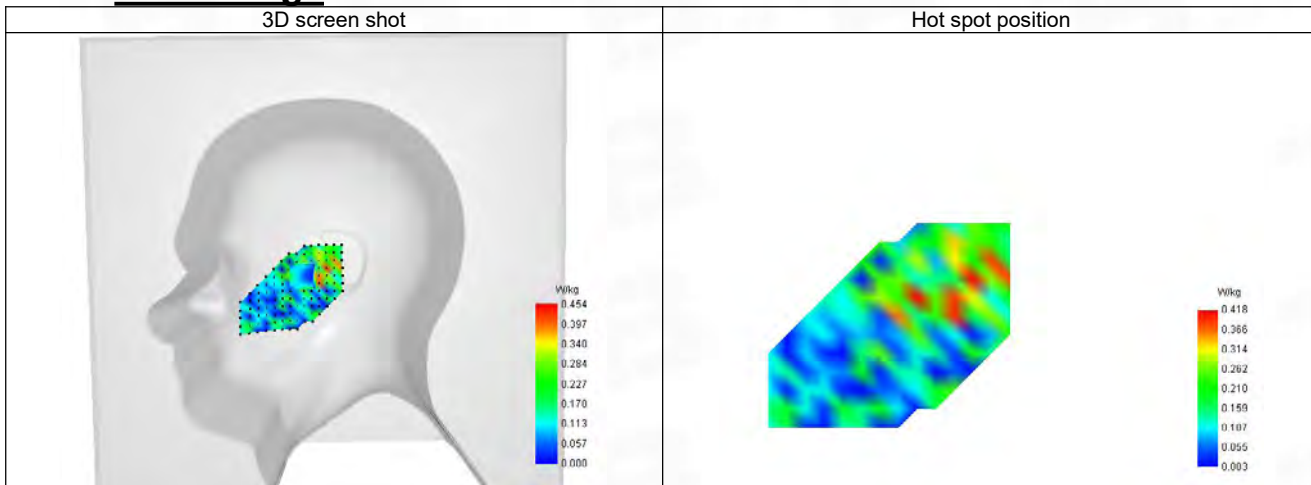
SAR 10g (W/Kg)	0.230
SAR 1g (W/Kg)	0.461
Variation (%)	-2.820
Horizontal validation criteria: minimum distance (mm)	5.955
Vertical validation criteria: SAR ratio M2/M1 (%)	51.23%

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)	0.662	0.406	0.208	0.090	0.117	0.026	0.123	0.096	0.147



F. 3D Image



42-Body with back position in dist. 10mm on Channel 52 in IEEE 802.11a U-NII

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

Date of measurement: 26/8/2024

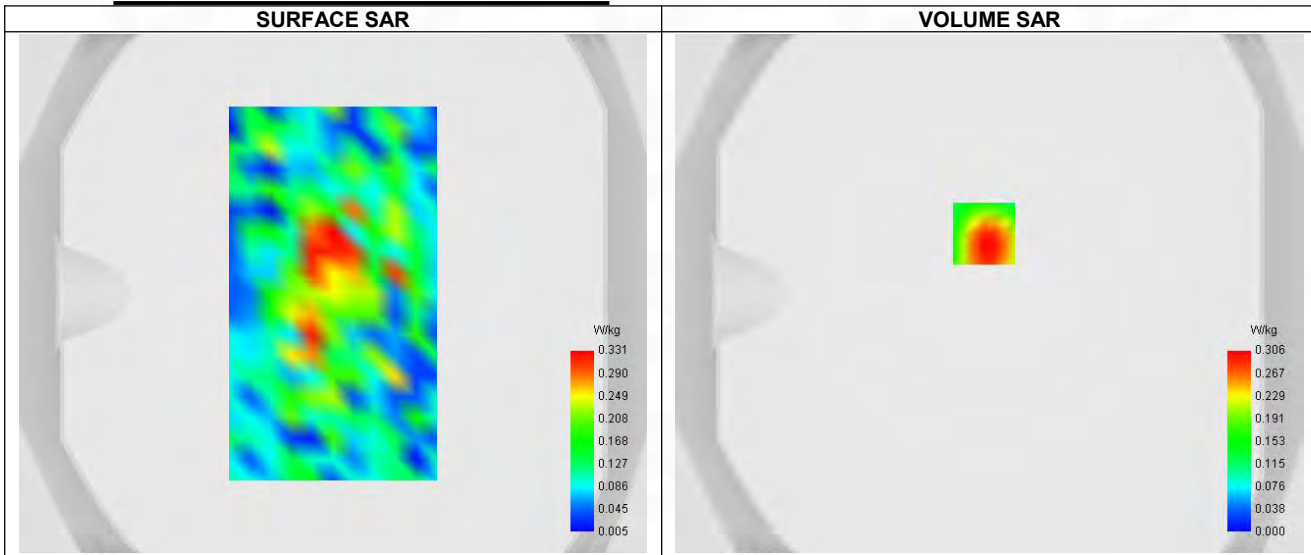
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	Body
Band	IEEE 802.11a U-NII
Channels	Lower (52)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5260.000
Relative permittivity (real part)	35.820
Relative permittivity (imaginary part)	16.271
Conductivity (S/m)	4.760

C. SAR Surface and Volume



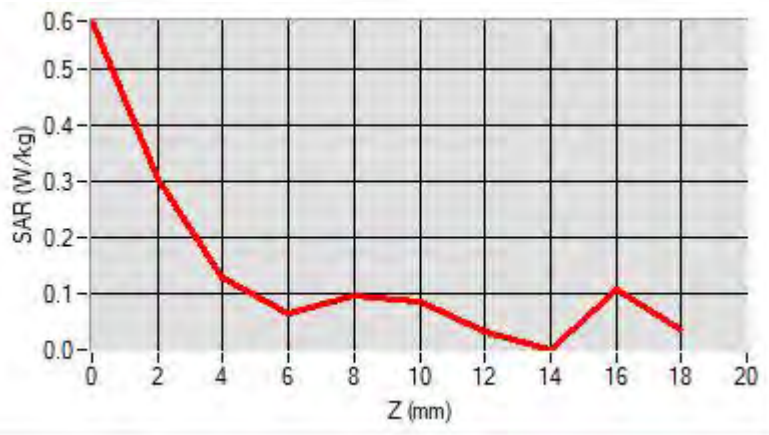
Maximum location: X=-2.00, Y=23.00 ; SAR Peak: 0.70 W/kg

D. SAR 1g & 10g

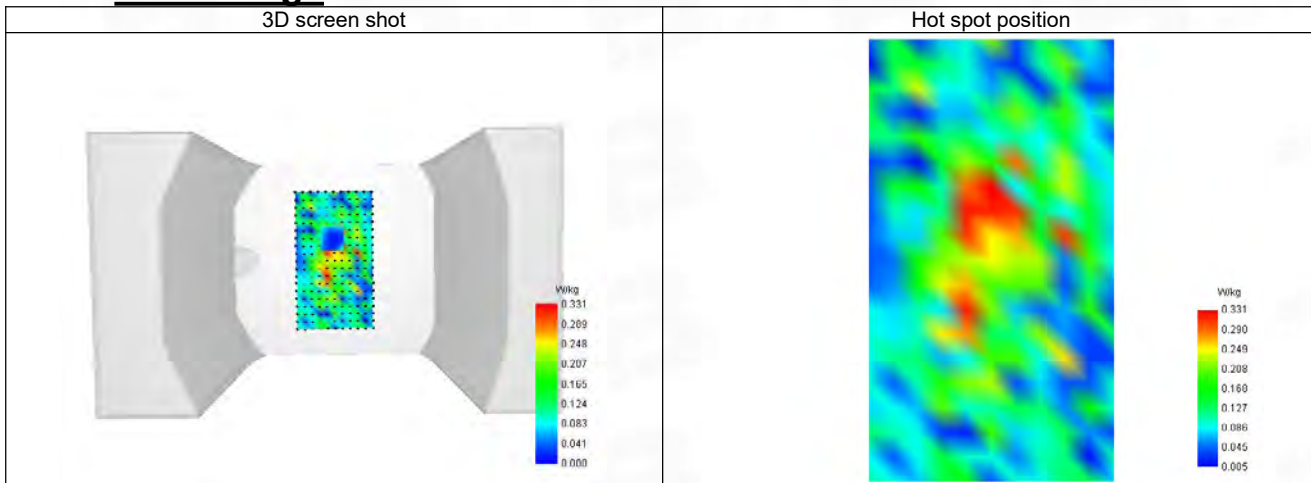
SAR 10g (W/Kg)	0.091
SAR 1g (W/Kg)	0.241
Variation (%)	-4.250
Horizontal validation criteria: minimum distance (mm)	6.484
Vertical validation criteria: SAR ratio M2/M1 (%)	52.29%

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)	0.587	0.306	0.160	0.066	0.099	0.086	0.031	0.001	0.109



F. 3D Image



43-Head with front position in dist. 0mm on Channel 140 in IEEE 802.11a U-NII

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

Date of measurement: 27/8/2024

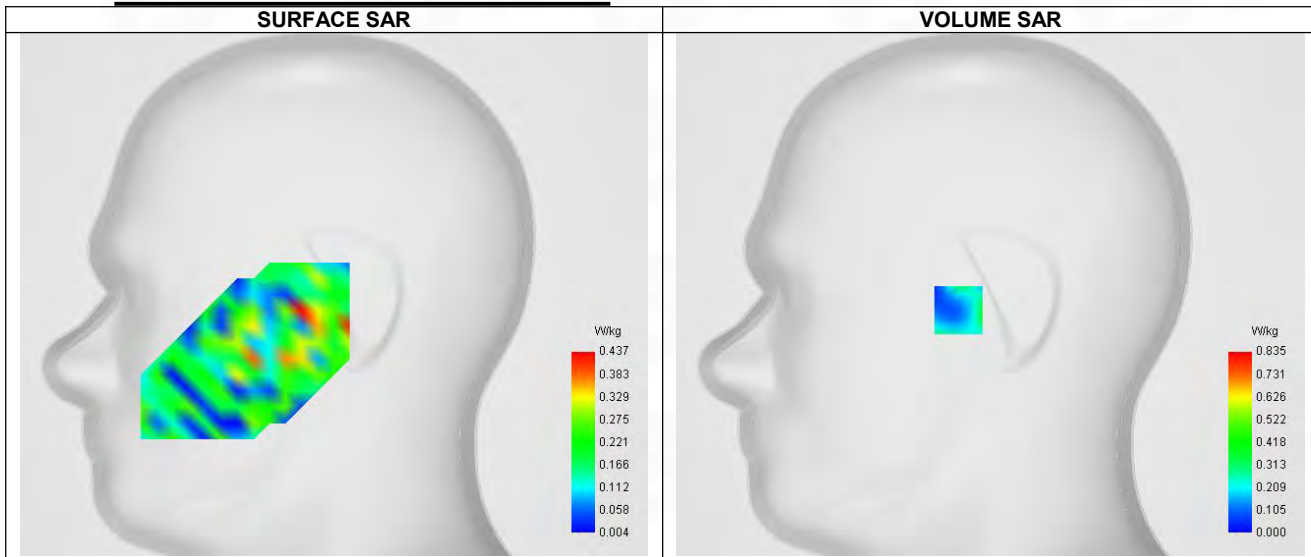
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.04
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 802.11a U-NII
Channels	Higher (140)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5700.000
Relative permittivity (real part)	35.280
Relative permittivity (imaginary part)	16.450
Conductivity (S/m)	5.210

C. SAR Surface and Volume



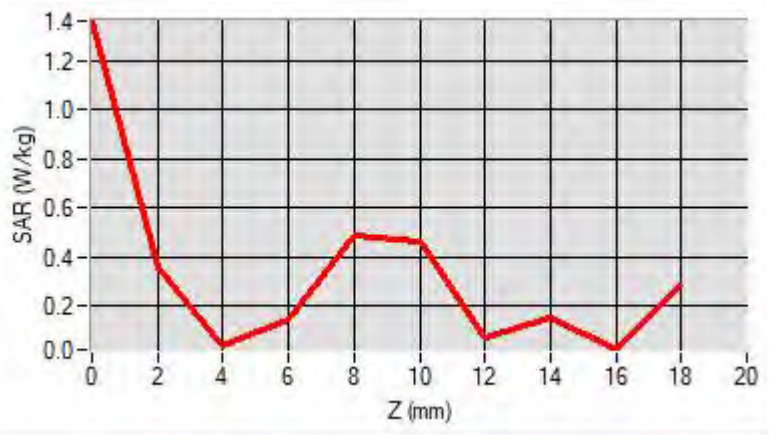
Maximum location: X=-16.00, Y=-8.00 ; SAR Peak: 1.95 W/kg

D. SAR 1g & 10g

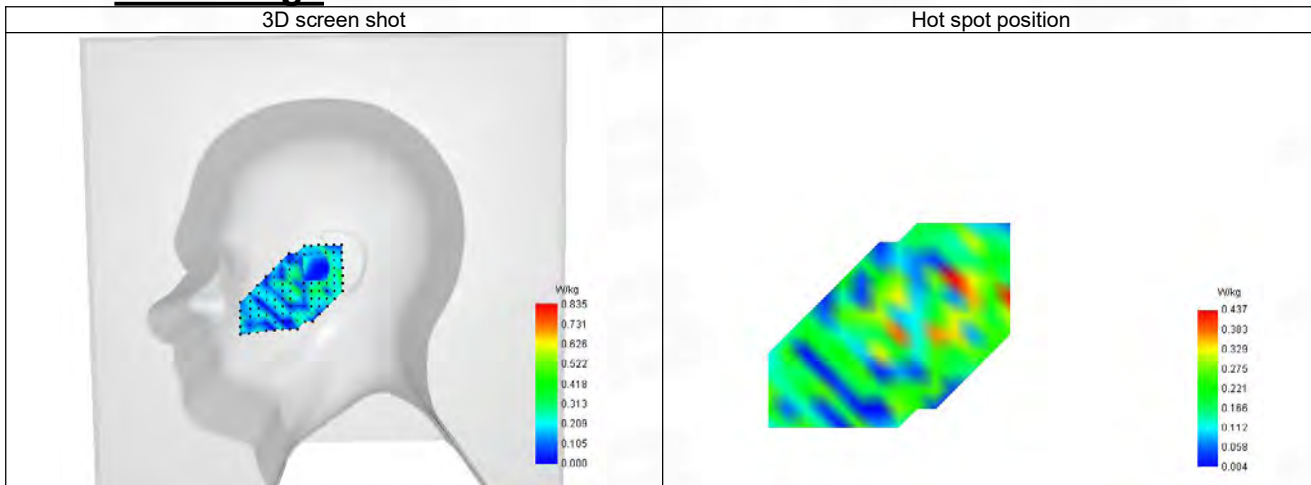
SAR 10g (W/Kg)	0.177
SAR 1g (W/Kg)	0.337
Variation (%)	2.030
Horizontal validation criteria: minimum distance (mm)	7.455
Vertical validation criteria: SAR ratio M2/M1 (%)	66.11%

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)	1.362	0.360	0.238	0.142	0.491	0.460	0.074	0.157	0.023



F. 3D Image



44-Body with back position in dist. 10mm on Channel 140 in IEEE 802.11a U-NII

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

Date of measurement: 27/8/2024

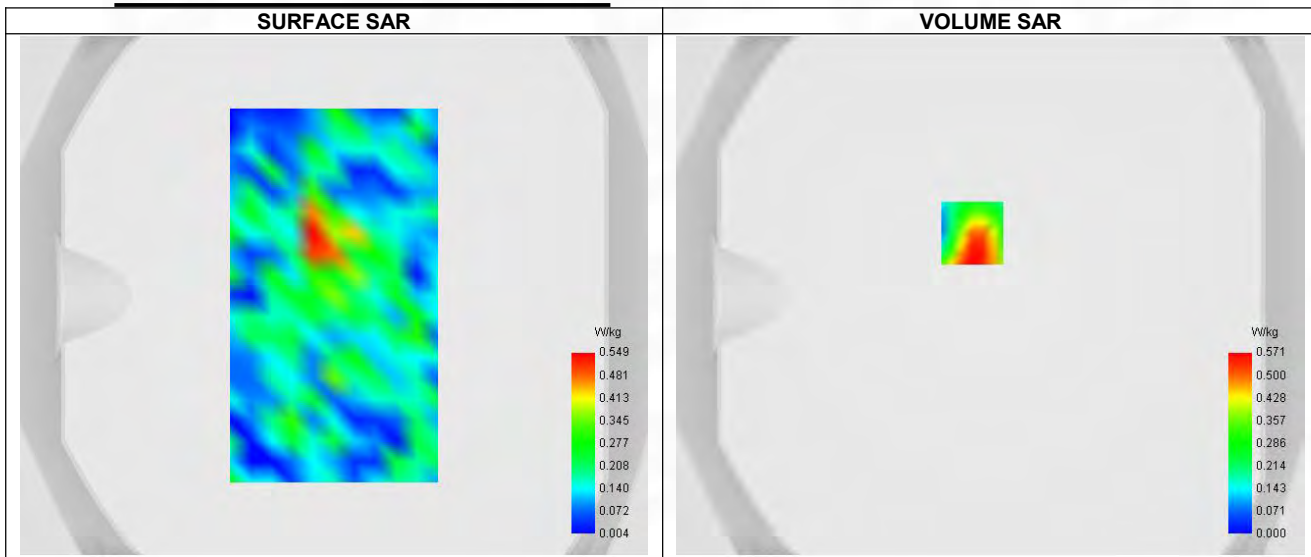
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	Body
Band	IEEE 802.11a U-NII
Channels	Higher (140)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5700.000
Relative permittivity (real part)	35.280
Relative permittivity (imaginary part)	16.450
Conductivity (S/m)	5.210

C. SAR Surface and Volume



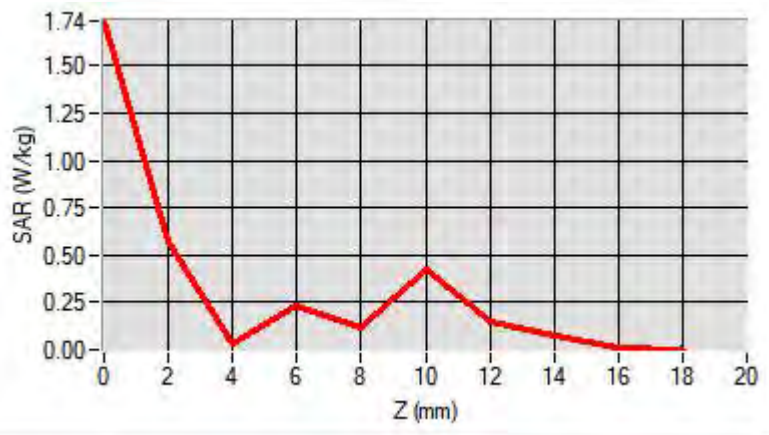
Maximum location: X=-7.00, Y=24.00 ; SAR Peak: 1.41 W/kg

D. SAR 1g & 10g

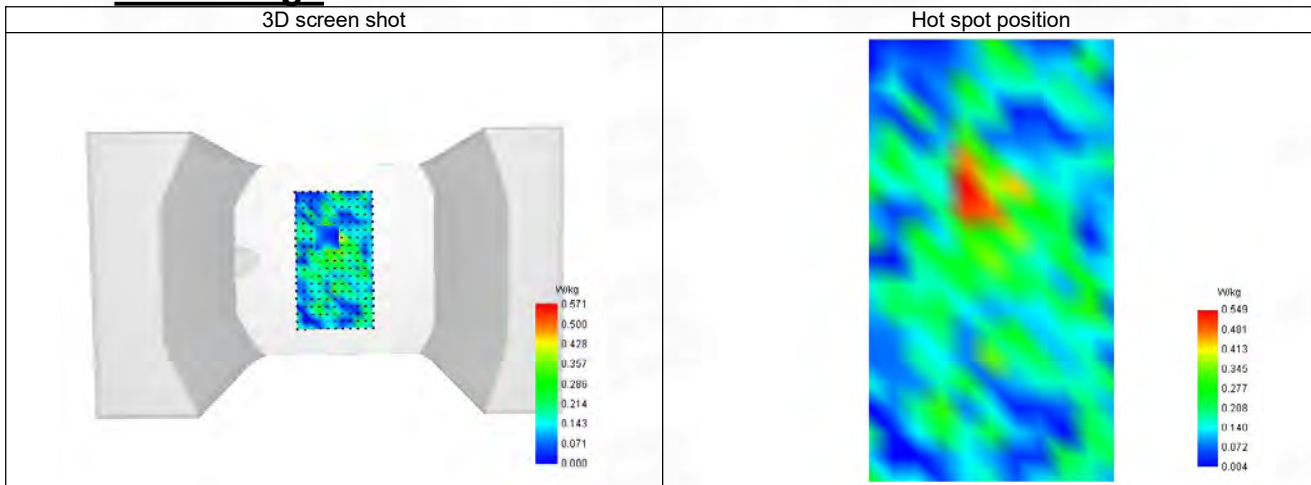
SAR 10g (W/Kg)	0.166
SAR 1g (W/Kg)	0.437
Variation (%)	-2.840
Horizontal validation criteria: minimum distance (mm)	5.487
Vertical validation criteria: SAR ratio M2/M1 (%)	57.79%

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)	0.737	0.571	0.330	0.235	0.121	0.428	0.143	0.072	0.007



F. 3D Image



45-Head with front position in dist. 0mm on Channel 157 in IEEE 802.11a U-NII

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

Date of measurement: 27/8/2024

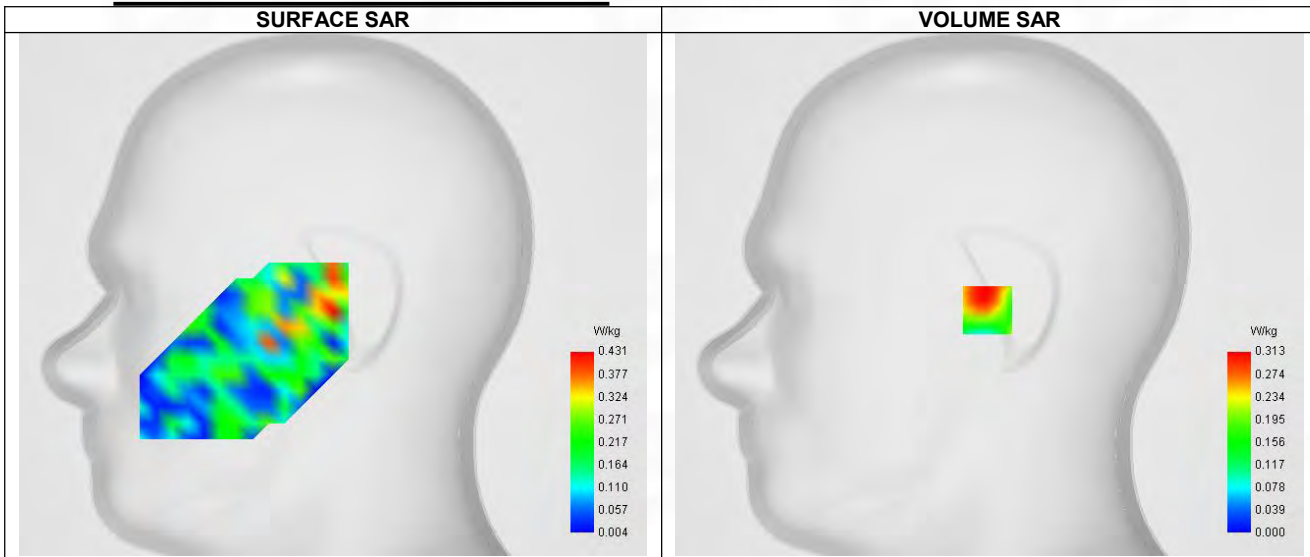
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.04
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 802.11a U-NII
Channels	Middle (157)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5785.000
Relative permittivity (real part)	35.195
Relative permittivity (imaginary part)	16.476
Conductivity (S/m)	5.295

C. SAR Surface and Volume



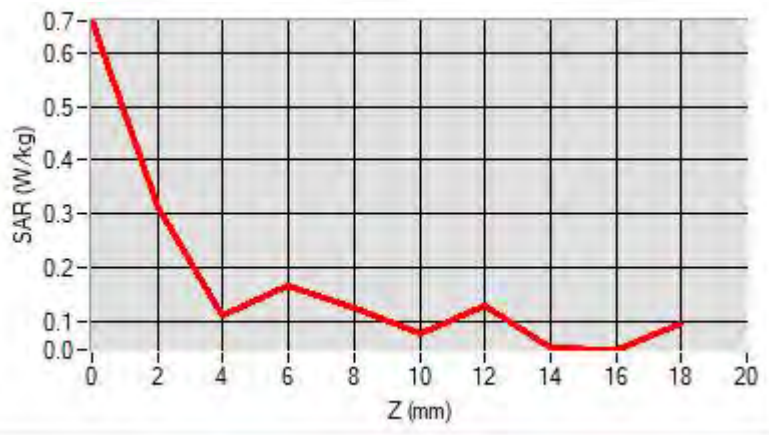
Maximum location: X=-1.00, Y=-8.00 ; SAR Peak: 0.88 W/kg

D. SAR 1g & 10g

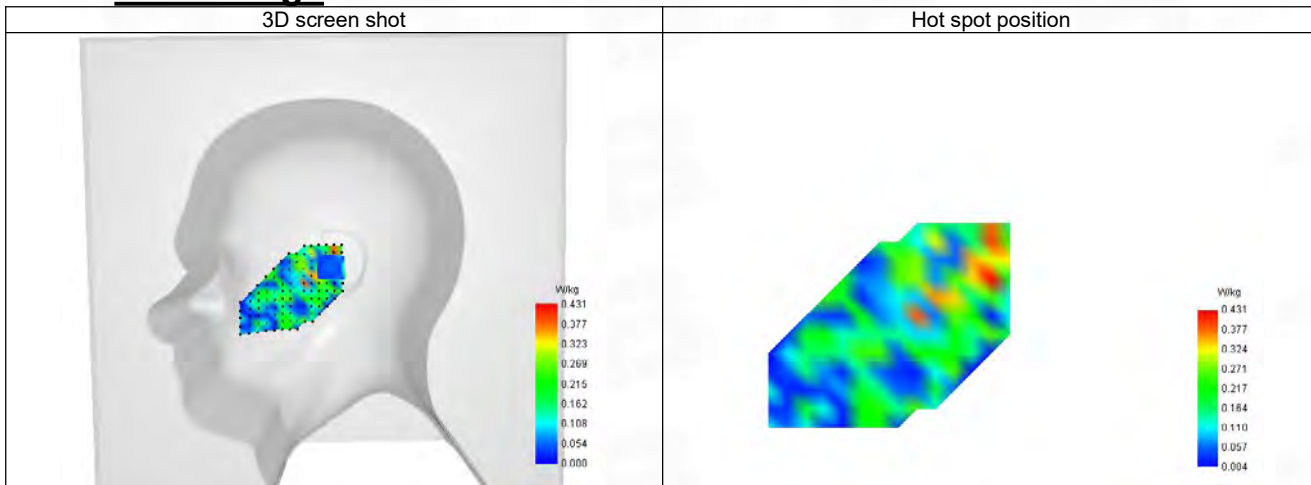
SAR 10g (W/Kg)	0.158
SAR 1g (W/Kg)	0.294
Variation (%)	1.730
Horizontal validation criteria: minimum distance (mm)	5.955
Vertical validation criteria: SAR ratio M2/M1 (%)	47.28%

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)	0.659	0.313	0.148	0.126	0.124	0.077	0.128	0.051	0.046



F. 3D Image



46-Body with back position in dist. 10mm on Channel 157 in IEEE 802.11a U-NII

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

Date of measurement: 27/8/2024

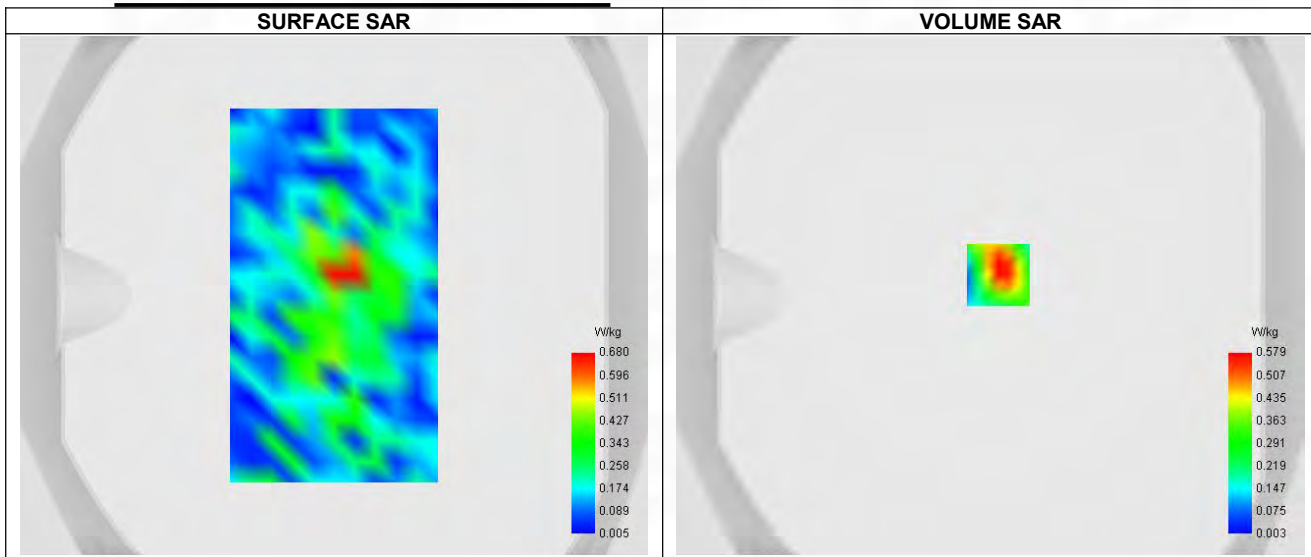
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	Body
Band	IEEE 802.11a U-NII
Channels	Middle (157)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5785.000
Relative permittivity (real part)	35.195
Relative permittivity (imaginary part)	16.476
Conductivity (S/m)	5.295

C. SAR Surface and Volume



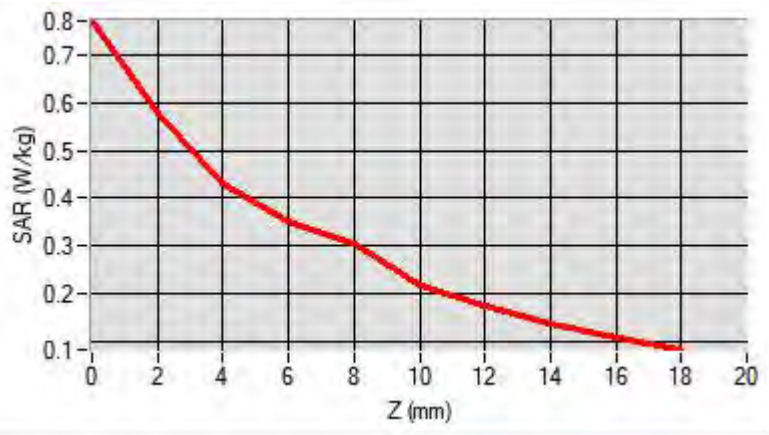
Maximum location: X=3.00, Y=8.00 ; SAR Peak: 0.94 W/kg

D. SAR 1g & 10g

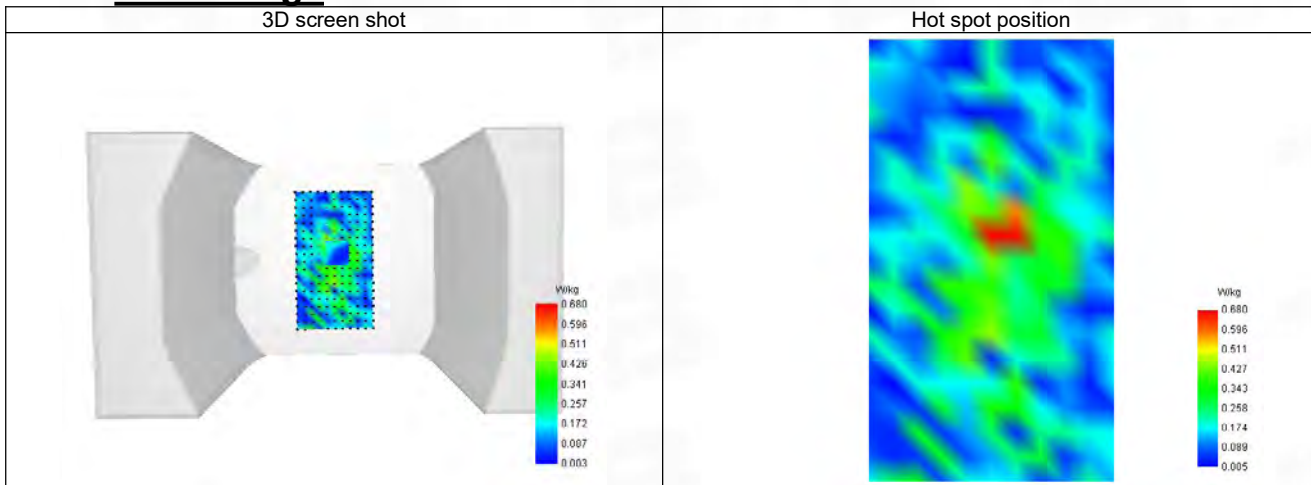
SAR 10g (W/Kg)	0.230
SAR 1g (W/Kg)	0.466
Variation (%)	-2.950
Horizontal validation criteria: minimum distance (mm)	6.412
Vertical validation criteria: SAR ratio M2/M1 (%)	64.25%

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)	0.773	0.579	0.372	0.331	0.306	0.217	0.174	0.136	0.107



F. 3D Image



47-Head with front position in dist. 0mm on Channel 39 in Bluetooth

SAR Measurement at Bluetooth (Cheek, Right)

Date of measurement: 22/8/2024

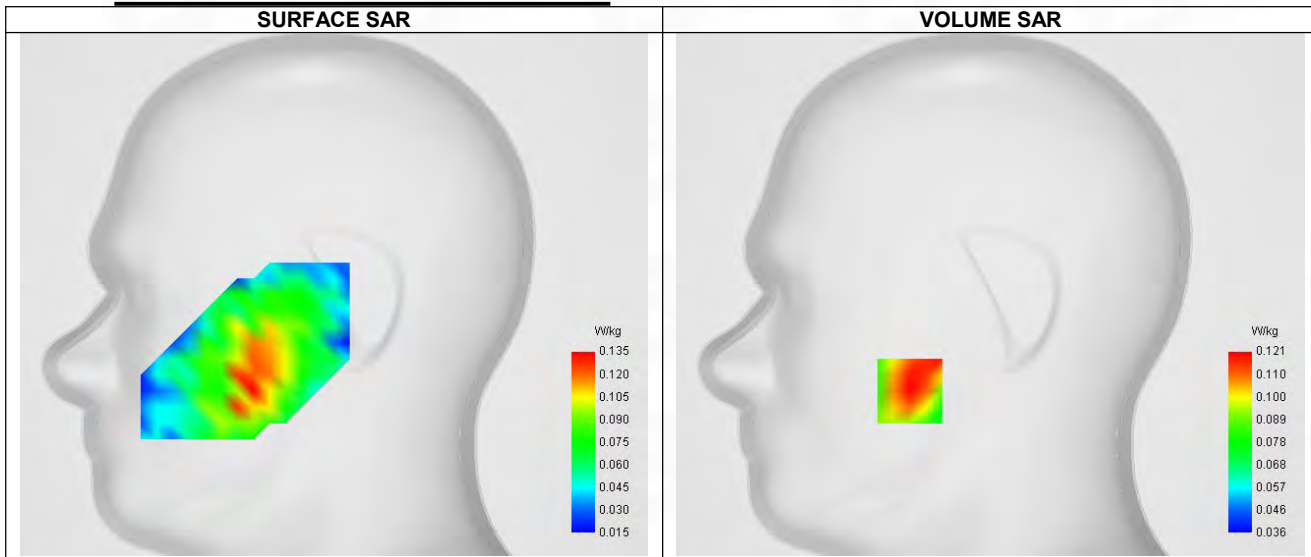
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.36
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Right head
Device Position	Cheek
Band	Bluetooth
Channels	Middle (39)
Signal	Bluetooth

B. Permittivity

Frequency (MHz)	2441.000
Relative permittivity (real part)	39.093
Relative permittivity (imaginary part)	13.341
Conductivity (S/m)	1.803

C. SAR Surface and Volume



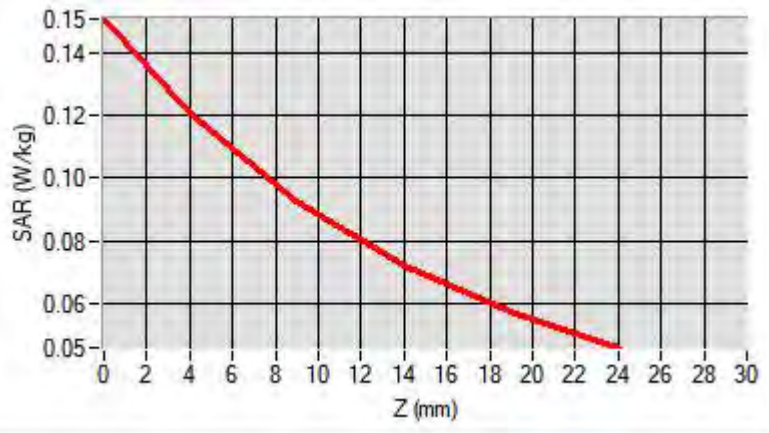
Maximum location: X=-40.00, Y=-48.00 ; SAR Peak: 0.15 W/kg

D. SAR 1g & 10g

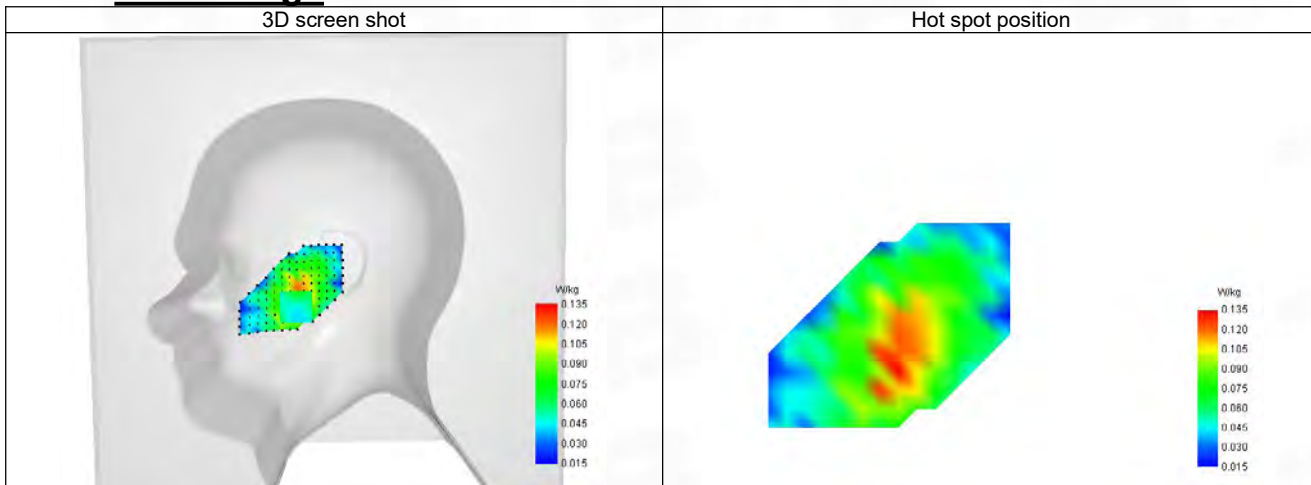
SAR 10g (W/Kg)	0.102
SAR 1g (W/Kg)	0.135
Variation (%)	2.370
Horizontal validation criteria: minimum distance (mm)	8.581
Vertical validation criteria: SAR ratio M2/M1 (%)	59.50%

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.151	0.121	0.072	0.052	0.037

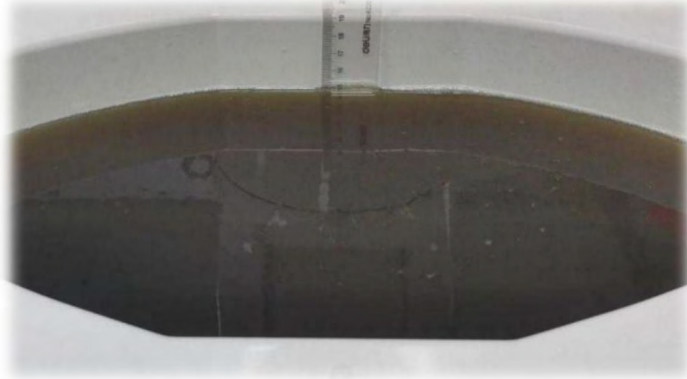


F. 3D Image

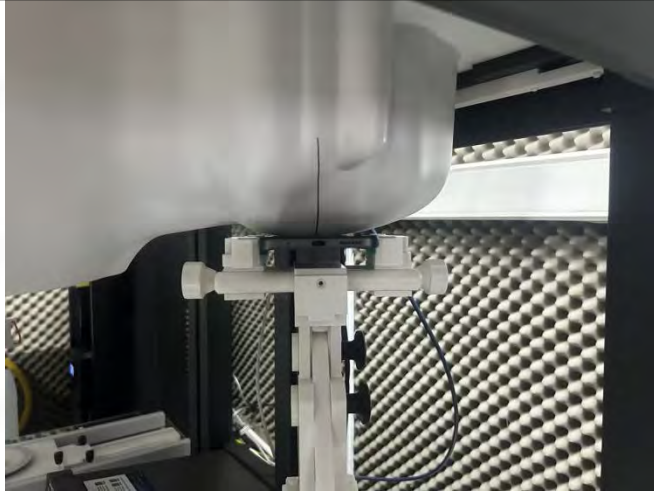


ANNEX E SAR Test Setup Photos

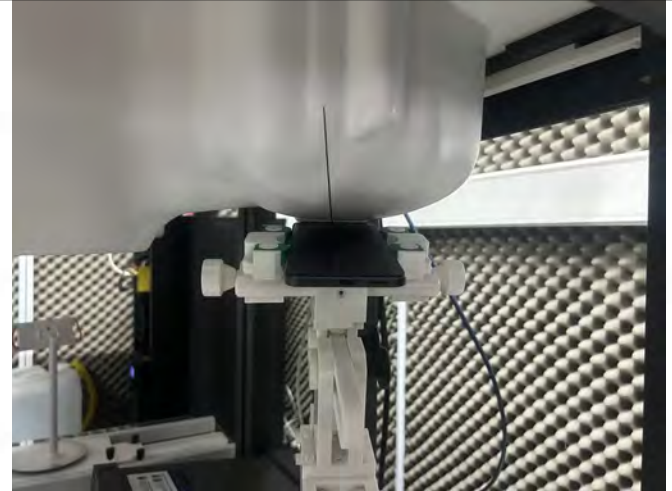
Reference Photo: simulation liquid depth 15cm



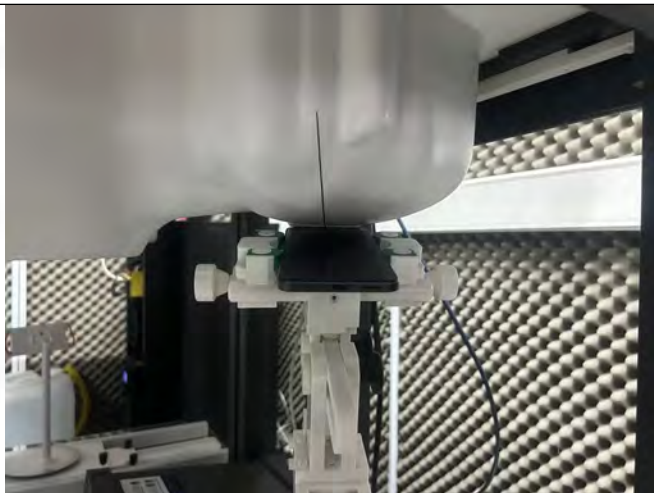
Reference Photos



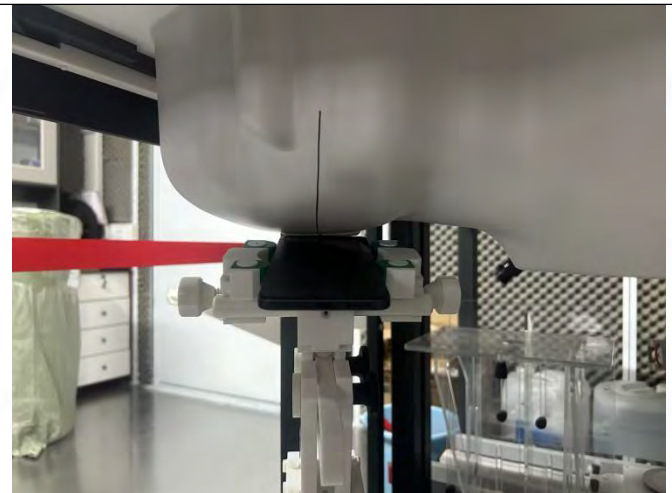
Left Head - Cheek



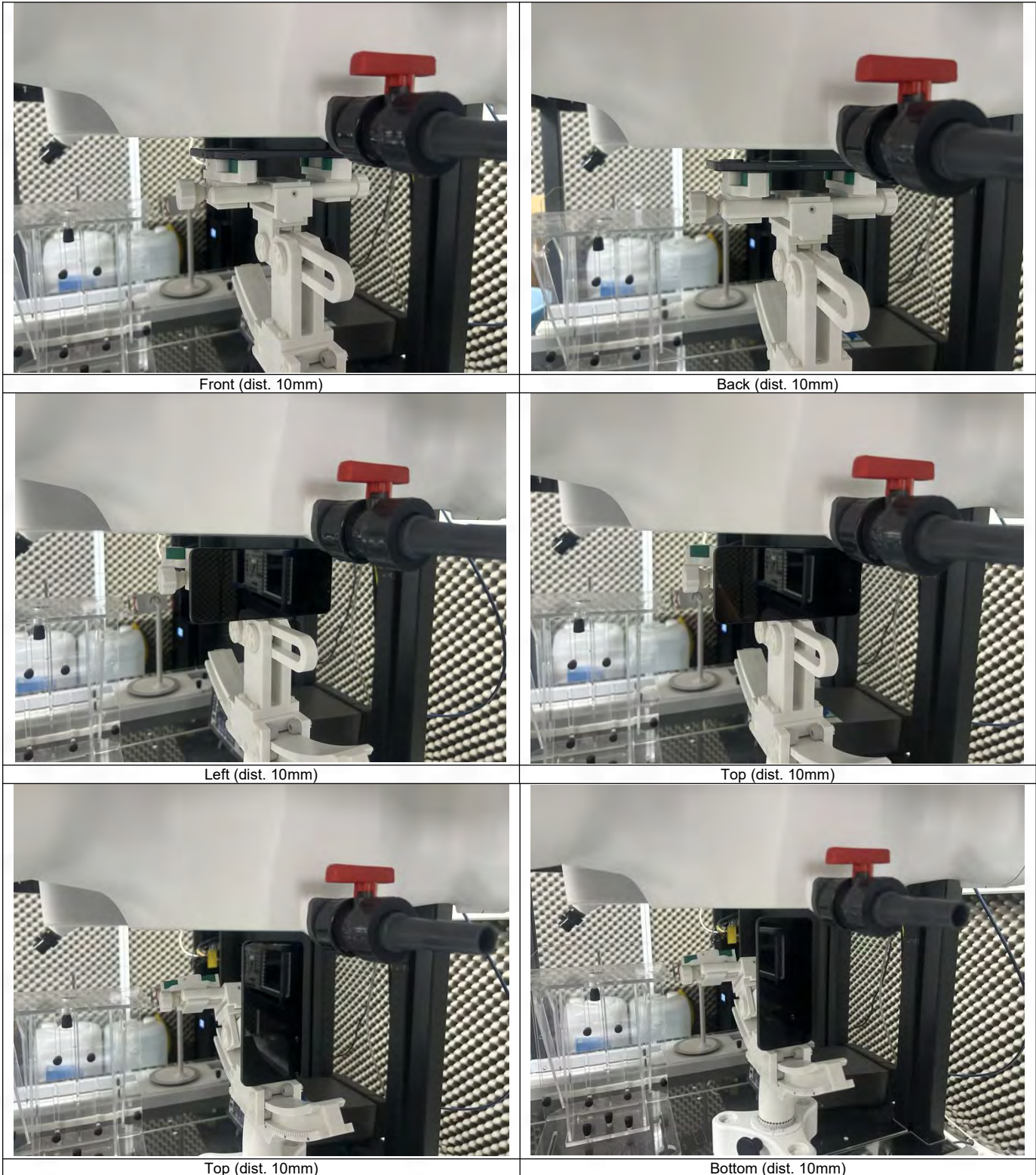
Left Head - Tilt



Right Head - Cheek



Right Head - Tilt



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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--END OF REPORT--