FCC SAR TEST REPORT

No. 150934-SAR

For

OBI Connect FZE

Product Name: Mobile Phone

Model Name: Obi Worldphone SJ1.5

Trade Name: OBI

Issued Date: 2015-11-27

Test Laboratory:

GCCT, *Guangdong Telecommunications Terminal Products Quality Supervision and Testing Center*

Technology Road, High-tech Zone, He Yuan, Guang Dong, PR China 517001

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GENERAL SUMMARY

Product Name	Mobile Phone
Model Name	Obi Worldphone SJ1.5
Trade Mark	OBI
Applicant	OBI Connect FZE
Manufacturer	CK Telecom Limited
Test laboratory	GCCT, Guangdong Telecommunications Terminal Products Quality Supervision and Testing Center
Reference Standards	**IEEE Std C95.1, 2005:** IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz **IEEE 1528-2003:** Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques **FCC KDB 447498 D01 v06:**RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices **FCC KDB 865664 D01 v01r04:** SAR Measurement Requirements for 100 MHz to 6 GHz **FCC KDB 941225 D01 3G SAR Procedures v03r01:** 3G SAR Measurement Procedures **FCC KDB 941225 D06 Hotspot Mode v02r01:** SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities **FCC KDB 248227 D01 v02r02: S**AR Guidance For IEEE 802.11(Wi-Fi) Transmitters **FCC KDB 648474 D04 Handset SAR v01r03:** SAR Evaluation Considerations for Wireless Handsets
Test Conclusion	This portable wireless equipment has been measured in all cases requested by the relevant standards. Test results in Chapter 8 of this test report are below limits specified in the relevant standards. General Judgment: **Pass** **Date of issue:2015.10.29**
Comment:	The test results in this report apply only to the tested sample of the stated device/equipment.

Approved by:	*Reviewed by:*	*Tested by:*
Luo Jian	Dong Xiaobo	Li Linqiang
Manager	Manager	Test Engineer

1 . Test Laboratory

1.1 Testing Location

Company Name:	GCCT, Guangdong Telecommunications Terminal Products Quality Supervision and Testing Center
Address:	Technology Road, High-tech Zone, Heyuan, Guangdong Province, PR.China
Postal Code:	517001
Telephone:	+86-762-3607221
Fax:	+86-762-3603336

1.2 Testing Environment

Temperature	Min. = 20℃, Max. = 25 ℃
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

1.3 Project Data

Project Leader:	Dong Xiaobo
Project Engineer	Li Linqiang
Testing Start Date:	2015-10-19
Testing End Date:	2015-10-28

2. Client Information

2.1 Applicant Information

Company Name:	OBI Connect FZE
Address:	B-21,Dubai Airport Free zone, PO BOX 371475, United Arab Emirates
City:	Dubai
Postal Code:	/
Country:	United Arab Emirates

2.2 Manufacturer Information

Company Name:	CK Telecom Limited
Address:	Technology Road.High-Tech Development Zone. Heyuan, Guangdong,P.R.China.
City:	Heyuan
Postal Code:	/
Country:	China

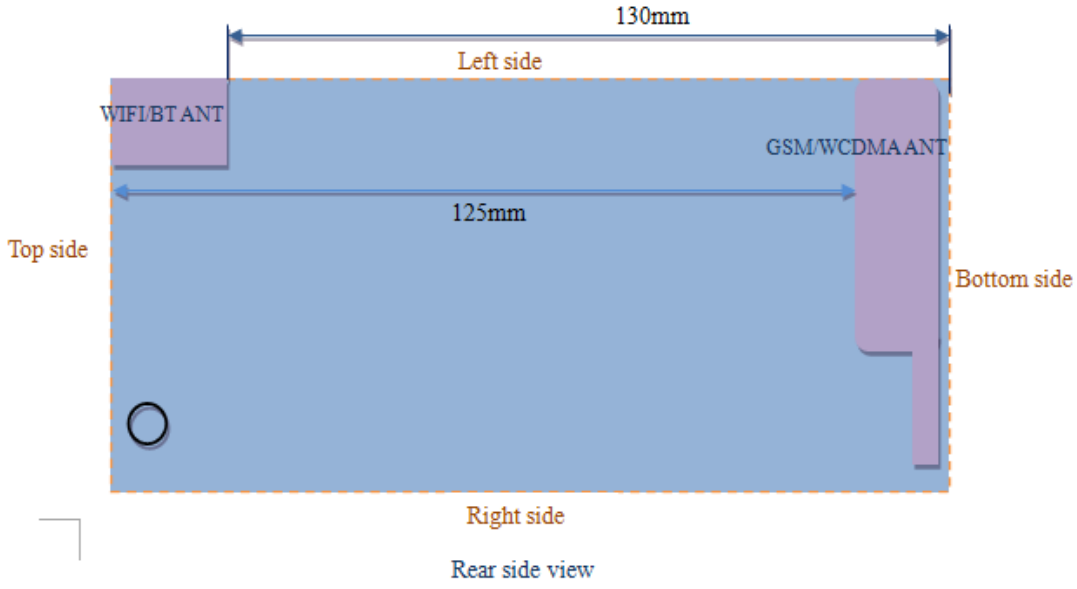
3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1 About EUT

Product Name	Mobile Phone			
Model Name	Obi Worldphone SJ1.5			
Trade Mark	OBI			
Exposure Category	Uncontrolled Environment / General Population			
Device Type	Portable Device			
Supporting modes	GSM850 (tested) DCS1900 (tested) WCDMA Band V(tested) WIFI(tested) Bluetooth			
GPRS Class	Class 12			
Hotspot	Supported			
Operating Frequency Range(s)	Mode	Tx(MHz)	Rx(MHz)	
	GSM850	824.0 ~ 849.0	869.0 ~ 894.0	
	GSM1900	1850 ~1910	1930 ~ 1990	
	WCDMA Band V	824 ~849	869 ~ 894	
	WiFi	2412 ~ 2462	2412 ~ 2462	
	Bluetooth	2402 ~ 2480	2402 ~ 2480	
Max. SAR (1g)	Mode	1g SAR(W/Kg)		
		Head	Body-worn	Hotspot
	GSM850	0.348	0.704	0.704
	GSM1900	0.181	1.37	1.37
	WCDMA Band V	0.274	0.551	0.551
	WIFI	0.448	0.097	0.097
Antenna Type	Fixed Internal Antenna			
Form factor	14.6cm*7.3cm			
Comment	The above EUT’s information was declared by manufacture.			

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2 DUT Antenna Locations



3.3 Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version
150934-M05	/	V1.0	OBI-SJ1.5-000-Ver1.5

*EUT ID: is used to identify the test sample in the lab internally.

3.4 Internal Identification of AE

AE ID*	Description	Type	Manufacture
150934-B05	Battery	OB3000CKA	DONG GUAN DRN NEW ENERGY CO.,LTD.
150934-C05	Charger	A0D2A5V	DONG GUAN AOHAI POWER TECHNOLOGY CO.,LTD.

*AE ID: is used to identify the test sample in the lab internally.

4. EUT Operational Conditions during Test

4.1 General Description of Test Procedures

A communication link is set up with a System Simulator (SS) by air link, and a call is established. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 128, 190 and 251 in the case of GSM850, allocated to 512, 661 and 810 in the case of PCS1900, allocated to 4132, 4183 and 4233 in the case of WCDMA Band V, allocated to 1, 6 and 11 respectively in the case of WIFI. The EUT is commanded to operate at maximum transmitting power by CMU200.

When we test, the EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. The antenna connected to the output of the base station simulator shall be placed at least 50 cm away from the EUT. The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the EUT by at least 30 dB.

4.2 GSM Test Configuration

For the SAR tests for GSM850 and DCS1900, a communication link is set up with a System Simulator (SS) by air link. Using CMU200 the power lever is set to “5” of GSM850, set to “0” of PCS1900. The EUT is commanded to operate at maximum transmitting power. The GPRS class is 12 for this EUT. It has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslots is 5.

4.3 WCDMA Test Configuration

For the SAR body tests for WCDMA Band V, a communication link is set up with a System Simulator (SS) by air link. We established the radio link with 12.2kbps RMC and the power control “all bits up” in test loop mode 1.

HSDPA:

SAR for body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. In addition, body SAR is also measured for HSDPA when the maximum average output of each RF channel with HSDPA active is at least 0.25 dB higher than that measured without HSDPA using 12.2kbps RMC or the highest reported SAR of 12.2kbps RMC 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 above 1.2 W/kg.

HSPA:

Body SAR is also measured for HSPA when the maximum average output of each RF channel with HSPA active is at least 0.25 dB higher than that measured without HSPA using 12.2 kbps RMC or the highest reported SAR of 12.2kbps RMC 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 above 1.2 W/kg. Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 with power control algorithm 2, according to the highest body SAR configuration in 12.2 kbps RMC without HSPA.

4.4 WIFI Test Configuration

For the 802.11b/g/n SAR tests, a communication link is set up with the test mode software for WIFI mode test. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 1, 6 and 11 respectively in the case of WiFi. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest data rate.

802.11b/g operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g modes are tested on channels1,6,11;however,if output power reduction is necessary for channels 1 and /or 11 to meet restricted band requirements the highest output channels closest to each of these channels must be tested instead.

SAR is not required for 802.11g/n channels when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

4.5 Hotspot Test Configuration

Standalone personal wireless routers and handsets with hotspot mode capabilities must address hand-held and other near-body exposure conditions to show SAR compliance. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25 mm from that surface or edge, for the data modes, wireless technologies and frequency bands supporting hotspot mode. A test separation of 10 mm is required. The standalone SAR results in each device test orientation must be analyzed for the applicable hotspot mode simultaneous transmission configurations to determine SAR test exclusion and volume scan requirements. The simultaneous transmission configurations must be clearly described in the SAR report to support the analyses or test results

5. SAR Measurements System Configuration

These measurements were performed with the automated near-field scanning system DASY5 from SPEAG. The system is based on a high precision robot, which positions the probes with a positional repeatability of better than ± 0.02 mm. Special E-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines to the data acquisition unit. The SAR measurements were conducted with the dosimetric probe manufactured by SPEAG, designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe has been calibrated according to the procedure described in with accuracy of better than ±10%. The spherical isotropy was evaluated and found to be better than ±0.3 dB. The phantom used was the SAM Twin Phantom and ELI4 Phantom as described in IEC 62209-1, IEEE1528 and EN 62209-1.

5.1 Measurement System Diagram

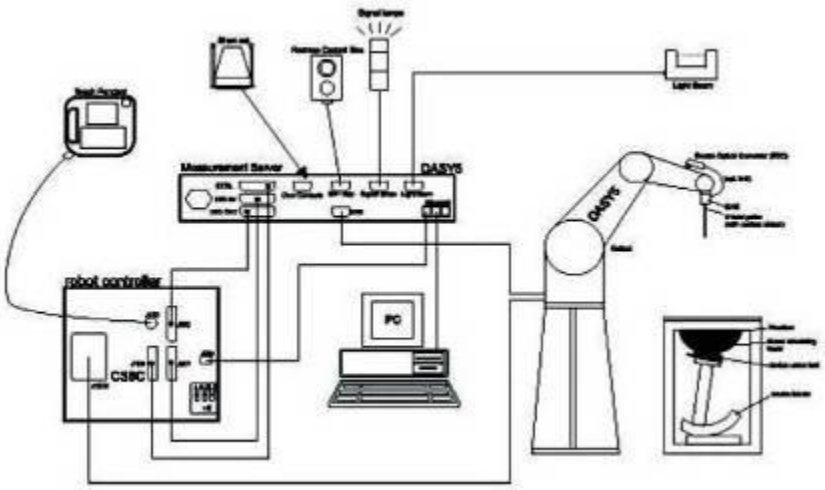


Figure 1 System Diagram

The DASY5 system consists of the following items:

1. A standard high precision 6-axis robot (TX90XL) with St ¨aubli CS8c robot controllers.
2. DASY5 Measurement Server.
3. Data Acquisition Electronics.
4. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
5. Light Beam Unit.
6. The SAM phantom enabling testing left-hand right-hand and the ELI4 phantom for body usage.
7. The Position device for handheld EUT.
8. Tissue simulating liquid mixed according to the given recipes.
9. System validation dipoles to validate the proper functioning of the system.
10. A computer operating Windows XP.

5.2 System Components

The mobile phone under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The DASY5 software computes the results to give a SAR value in a 1g or 10 g mass.

5.2.1 TX90XL

The TX90XL robot has six axes. The six axes are controlled by the St ̈aubli CS8c robot controllers. It offers the features important for our application:

• High precision (repeatability 0.02mm)
• High reliability (industrial design)
• Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
• Jerk-free straight movements (brushless synchrony motors; no stepper motors)
• Low ELF

5.2.2 DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip disk and 128MB RAM. The necessary circuits for communication with either the DAE4 electronics box as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.

Figure 2 TX90XL

Figure 3 Measurement Server

5.2.3 Probe

For the measurements the specific dosimetric E-Field Probe ES3DV3 and EX3DV4 with following specifications is used.

Frequency: 10 MHz to 3 GHz; Linearity: ±0.2 dB

Directivity: ±0.3 dB in HSL (rotation around probe axis)

±0.5 dB in tissue material (rotation normal to probe axis)

Dynamic Range: 10 μW/g to > 100 mW/g; Linearity: ±0.2 dB

Tip Diameter: 5 mm; Distance between probe tip and sensor center: 2.5 mm

Probe linearity: ±0.3 dB

Calibration range: 835 to 2500 MHz for head & body simulating liquid

5.2.4 Device holder

The DASY device holder is designed to cope with the different positions given in the standard.

It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles. The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity =3 and loss tangent =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

Figure 4 Probe

Figure 5 Device Holder

5.2.5 Phantom

The SAM Twin Phantom and the ELI4 Phantom are constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is in compliance with the specification set in IEEE P1528 and CENELEC EN62209-1. The SAM Twin phantom enables the dosimetric evaluation of left and right hand phone usage and the ELI4 phantom enables the dosimetric evaluation of body mounted usage. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

Shell thickness: 2 mm +/-0.2 mm

Filling Volume: Approx. 25 liters

Dimensions (H x L x W): 850 x 1000 x 500 mm

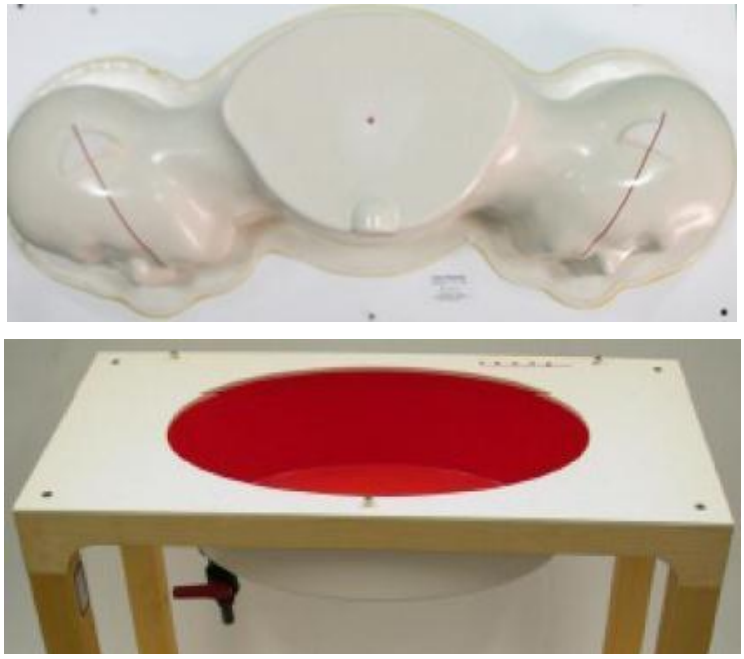


Figure 6 SAM Twin Phantom and ELI Phantom

5.2.6 Data Acquisition Electronics

DAE4 consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock. The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.
Input impedance: 200MOhm, symmetrical and floating.
Common mode rejection: > 80 dB.

5.2.7 Validation dipoles

SPEAG has a full range of dipoles corresponding to the frequencies defines by the standards: 835, 900, 1800, 1900, 2000, 2450MHz
Maximum input Power: 100W
Connectors: SMA
Dimensions: (depends on the dipole frequency)

Figure 7 DAE4

Figure 8 Validation Dipoles

5.3 Equivalent Tissues

The relative permittivity and conductivity of the tissue material should be within ±5% of the values given in the table below recommended by the FCC KDB 865664 D01.

Target Frequency	Head		Body	
(MHz)	εr	σ (S/m)	εr	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

(εr = relative permittivity, σ = conductivity and ρ = 1000 kg/m^3)

6. Evaluation Procedures

6.1 Data Evaluation

The DASY5 software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2
- Conversion factor ConvFi
- Diode compression point dcpi

Device parameters: - Frequency f
- Crest factor cf

Media parameters: - Conductivity σ
- Density ρ

These parameters must be set correctly in the software. They can be found in the component documents or be imported into the software from the configuration files issued for the DASY5 components. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.
The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \bullet \frac{cf}{dcpi}$$

with Vi = Compensated signal of channel i (i = x, y, z)

Ui = Input signal of channel i (i = x, y, z)

cf = Crest factor of exciting field (DASY5 parameter)

dcpi = Diode compression point (DASY5 parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes: $$E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

H-field probes: $$H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1} f + a_{i2} f^2}{f}$$

With Vi = Compensated signal of channel i (i = x, y, z)

Normi = Sensor sensitivity of channel i (i = x, y, z)

ConvF= Sensitivity enhancement in solution

aij = Sensor sensitivity factors for H-field probes

f = Carrier frequency (GHz)

Ei = Electric field strength of channel i in V/m

Hi = Magnetic field strength of channel i in A/m

The RSS value of the field components give the total field strength:

$$E_{tot}=\sqrt{E_x^2+E_y^2+E_z^2}$$

The primary field data are used to calculate the derived field units.

$$SAR=E_{tot}^2\cdot\frac{\sigma}{\rho 1000}$$

With SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ρ= equivalent tissue density in g/cm^3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field as a free space field.

$$P_{pwe}=E_{tot}^2/3770 \quad \text{Or} \quad P_{pwe}=H_{tot}^2\cdot 37.7$$

With P_{pwe} = Equivalent power density of a plane wave in mW/cm^2

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m

6.2 SAR Evaluation Procedures

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

• Power Reference Measurement

The reference and drift jobs are useful jobs for monitoring the power drift of the device under test in the batch process. Both jobs measure the field at a specified reference position, at a selectable distance from the phantom surface. The reference position can be either the selected section's grid reference point or a user point in this section. The reference job projects the selected point onto the phantom surface, orients the probe perpendicularly to the surface, and approaches the surface using the selected detection method.

• Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a finer measurement around the hot spot. The sophisticated interpolation routines implemented in DASY5 software can find the maximum locations even in relatively coarse grids. The scan area is defined by an editable grid. This grid is anchored at the grid reference point of the selected section in the phantom. When the area scan's property sheet is brought-up, grid was at to 15 mm by 15 mm and can be edited by a user.

• Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default zoom scan measures 7 x 7 x 7 points within a cube whose base faces are centered around the maximum found in a preceding area scan job within the same procedure. If the preceding Area Scan job indicates more then one maximum, the number of Zoom Scans has to be enlarged accordingly (The default number inserted is 1).

• Power Drift Measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for one reference measurement. This allows a user to monitor the power drift of the device under test within a batch process. In the properties of the Drift job, the user can specify a limit for the drift and have DASY5 software stop the measurements if this limit is exceeded.

6.3 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the IEC62209-1 standard. It can be conducted for 1 g and 10 g. The DASY5 system allows evaluations that combine measured data and robot positions, such as:

maximum search

extrapolation

boundary correction

Peak search for averaged SAR

During a maximum search, global and local maximum searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

Extrapolation

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. Several measurements at different distances are necessary for the extrapolation.

Extrapolation routines require at least 10 measurement points in 3-D space. They are used in the Cube Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Shepard's method for extrapolation. For a grid using 7x7x7 measurement points with 5mm resolution amounting to 343 measurement points, the uncertainty of the extrapolation routines is less than 1% for 1 g and 10 g cubes.

Boundary effect

For measurements in the immediate vicinity of a phantom surface, the field coupling effects between the probe and the boundary influence the probe characteristics. Boundary effect errors of different dosimetric probe types

have been analyzed by measurements and using a numerical probe model. As expected, both methods showed an enhanced sensitivity in the immediate vicinity of the boundary. The effect strongly depends on the probe dimensions and disappears with increasing distance from the boundary. The sensitivity can be approximately given as:

$$S \approx S_o + S_b \exp(-\frac{z}{a}) \cos(\pi \frac{z}{\lambda})$$

Since the decay of the boundary effect dominates for small probes ($a<<\lambda$), the cos-term can be omitted. Factors Sb (parameter Alpha in the DASY5 software) and a (parameter Delta in the DASY5 software) are assessed during probe calibration and used for numerical compensation of the boundary effect. Several simulations and measurements have confirmed that the compensation is valid for different field and boundary configurations. This simple compensation procedure can largely reduce the probe uncertainty near boundaries. It works well as long as:

the boundary curvature is small

the probe axis is angled less than 30 °to the boundary normal

the distance between probe and boundary is larger than 25% of the probe diameter

the probe is symmetric (all sensors have the same offset from the probe tip)

Since all of these requirements are fulfilled in a DASY5 system, the correction of the probe boundary effect in the vicinity of the phantom surface is performed in a fully automated manner via the measurement data extraction during post processing.

7. Conducted Output Power Measurement

The following procedures had been used to prepare the EUT for the SAR test. To setup the desire channel frequency and the maximum output power. A Radio Communication Tester CMU200 was used to program the EUT.

GSM 850		Power (dBm)				Average power (dBm)		
		Channel	Channel	Channel		Channel	Channel	Channel
		128	190	251		128	190	251
GSM		31.36	**31.52**	31.42				
GPRS (GMSK)	1Txslot	31.48	31.32	31.29	-9.03	22.45	22.29	22.26
	2Txslots	30.62	30.43	30.44	-6.02	24.60	24.41	24.42
	3Txslots	28.92	28.76	28.77	-4.26	24.66	24.50	24.51
	4Txslots	28.06	27.95	27.87	-3.01	**25.05**	**24.94**	**24.86**
GSM 1900		**Power (dBm)**				**Average power (dBm)**		
		Channel	Channel	Channel		Channel	Channel	Channel
		512	661	810		512	661	810
GSM		28.25	28.19	**28.49**				
GPRS (GMSK)	1Txslot	28.23	28.13	28.47	-9.03	19.20	19.10	19.44
	2Txslots	27.57	27.45	27.81	-6.02	21.55	21.43	21.79
	3Txslots	25.93	25.81	26.18	-4.26	21.67	21.55	21.92
	4Txslots	25.06	25.25	25.10	-3.01	**21.88**	**22.24**	**22.09**

Note:1) Division Factors

To average the power, the division factor is as follows:

1 TX-slot = 1 transmit time slot out of 8 time slots

=>Conducted power divided by (8/1) => -9.03 dB

2 TX-slots = 2 transmit time slots out of 8 time slots

=> Conducted power divided by (8/2) => -6.02 dB

3TX-slots = 3 transmit time slots out of 8 time slots

=> Conducted power divided by (8/3) => -4.26 dB

4 TX-slots = 4 transmit time slots out of 8 time slots

=> Conducted power divided by (8/4) => -3.01 dB

2) Average power

The maximum power are marks in bold. According to the conducted power as above, the body measurements are performed with 4Txslots for GPRS.

WCDMA

Band V		Power (dBm)		
		Channel	Channel	Channel
		4132	4183	4233
RMC12.2kbps		22.37	**22.56**	22.45
HSDPA	Sub - Test 1	22.17	22.13	22.21
	Sub - Test 2	22.21	22.2	22.23
	Sub - Test 3	22.09	22.14	22.08
	Sub - Test 4	22.15	22.17	22.10
HSUPA	Sub - Test 1	21.71	21.68	21.73
	Sub - Test 2	21.69	21.59	21.77
	Sub - Test 3	21.80	21.74	21.81
	Sub - Test 4	21.74	21.81	21.69
	Sub - Test 5	21.75	21.83	21.72

8. SAR Measurement Results

8.1 Liquid Measurement Results

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

Freq. [MHz]	Date	Liquid Type	Liquid Temp. [℃]	Ambient Temp. [℃]	Relative Humidity	Para.	Target Value	Measured Value	Deviation [%]	Limit [%]
835	Oct 24, 2015	Head	21.5	21	58%	εr	41.5	41.5	0.00	±5
						σ	0.90	0.89	-1.11	±5
835	Oct 25, 2015	Body	21.5	21	58%	εr	55.2	55.87	1.21	±5
						σ	0.97	0.96	-1.03	±5
1900	Oct 26, 2015	Head	21.5	21	58%	εr	40	40.33	0.82	±5
						σ	1.40	1.42	1.43	±5
1900	Oct 26, 2015	Body	21.5	21	58%	εr	53.3	51.05	-4.22	±5
						σ	1.52	1.57	3.29	±5
2450	Oct 19, 2015	Head	21.5	21	58%	εr	39.2	40.1	2.30	±5
						σ	1.80	1.86	3.33	±5
2450	Oct 19, 2015	Body	21.5	21	58%	εr	52.7	52.15	-1.04	±5
						σ	1.95	1.90	-2.56	±5

8.2 System Performance Check

System Performance Check Measurement conditions

- The measurements were performed in the flat section of the SAM twin phantom filled with head and body simulating liquid of the following parameters.
- The DASY5 system with an E-field probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 15 mm (below 1 GHz) and 10 mm (above 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 10mm was aligned with the dipole.
- Special 5x5x7 fine cube was chosen for cube integration (dx= 8 mm, dy= 8 mm, dz= 5 mm).
- Distance between probe sensors and phantom surface was set to 2.5 mm.

The depth of Liquid must above 15cm

System Performance Check Results

Freq. [MHz]	Date	Liquid Type	Liquid Temp. [℃]	Amb. Temp. [℃]	Input Power (mW)	Measured SAR_1g (W/Kg)	250mW Target SAR_1g (W/Kg)	Dev. [%]	Limit [%]
835	Oct 24, 2015	Head	21.5	21	250	2.37	2.37	0.00	±10
	Oct 25, 2015	Body	21.5	21	250	2.46	2.4	2.50	±10
1900	Oct 26, 2015	Head	21.5	21	250	9.83	9.89	-0.61	±10
	Oct 26, 2015	Body	21.5	21	250	10.5	10.1	3.96	±10
2450	Oct 19, 2015	Head	21.5	21	250	13.8	13.5	2.22	±10
	Oct 19, 2015	Body	21.5	21	250	12.7	12.9	-1.55	±10

8.3 Measurement Results

Band	Test configuration		Mode	Ch#.	Freq. [MHz]	Power (dBm)		1g SAR (W/Kg)		Power Drift (dB)
						Tune-up limit	Measured	Measured	Scaled	
GSM850	Head	Left Cheek	voice	190	836.6	32	31.52	0.285	0.318	-0.20
	Head	Left Tilted	voice	190	836.6	32	31.52	0.166	0.185	-0.15
	Head	Right Cheek	voice	190	836.6	32	31.52	0.312	**0.348**	0.08
	Head	Right Tilted	voice	190	836.6	32	31.52	0.194	0.217	-0.10
	Body	Back	GPRS 4 slots	128	824.2	28.5	28.06	0.636	**0.704**	-0.01
	Body	Front	GPRS 4 slots	128	824.2	28.5	28.06	0.377	0.417	-0.03
	Body	Left	GPRS 4 slots	128	824.2	28.5	28.06	0.289	0.320	-0.09
	Body	Right	GPRS 4 slots	128	824.2	28.5	28.06	0.419	0.464	-0.01
	Body	Bottom	GPRS 4 slots	128	824.2	28.5	28.06	0.068	0.075	-0.11
GSM 1900	Head	Left Cheek	voice	810	1909.8	29	28.49	0.161	**0.181**	-0.04
	Head	Left Tilted	voice	810	1909.8	29	28.49	0.071	0.080	0.05
	Head	Right Cheek	voice	810	1909.8	29	28.49	0.114	0.128	0.13
	Head	Right Tilted	voice	810	1909.8	29	28.49	0.082	0.092	-0.16
	Body	Back	GPRS 4 slots	810	1909.8	25.5	25.10	1.11	1.22	-0.05
	Body	Back	GPRS 4 slots	661	1880	25.5	25.25	1.16	1.23	-0.08
	Body	Back	GPRS 4 slots	512	1850.2	25.5	25.06	1.24	**1.37**	-0.03
	Body	Back	GPRS 4 slots	512	1850.2	25.5	25.06	1.23	1.36	-0.13
	Body	Front	GPRS 4 slots	661	1880	25.5	25.25	0.582	0.616	-0.02
	Body	Left	GPRS 4 slots	661	1880	25.5	25.25	0.291	0.308	-0.01
	Body	Right	GPRS 4 slots	661	1880	25.5	25.25	0.162	0.172	-0.14
	Body	Bottom	GPRS 4 slots	661	1880	25.5	25.25	0.438	0.464	-0.13

Band	Test configuration		Mode	Ch#.	Freq. [MHz]	Power (dBm)		1g SAR (W/Kg)		Power Drift (dB)
						Tune-up limit	Measured	Measured	Scaled	
WCDMA Band V	Head	Left Cheek	RMC 12.2 kbps	4183	836.6	23	22.56	0.169	0.187	-0.21
	Head	Left Tilted	RMC 12.2 kbps	4183	836.6	23	22.56	0.101	0.112	0.05
	Head	Right Cheek	RMC 12.2 kbps	4183	836.6	23	22.56	0.248	**0.274**	0.04
	Head	Right Tilted	RMC 12.2 kbps	4183	836.6	23	22.56	0.133	0.147	-0.12
	Body	Back	RMC 12.2 kbps	4183	836.6	23	22.56	0.498	**0.551**	-0.04
	Body	Front	RMC 12.2 kbps	4183	836.6	23	22.56	0.251	0.278	-0.03
	Body	Left	RMC 12.2 kbps	4183	836.6	23	22.56	0.297	0.329	-0.15
	Body	Right	RMC 12.2 kbps	4183	836.6	23	22.56	0.317	0.351	-0.08
	Body	Bottom	RMC 12.2 kbps	4183	836.6	23	22.56	0.075	0.083	0.13

Note:

1) The body SAR was tested with separation distance 10mm.

2) According to KDB 941225 D06 Hotspot Mode SAR v02r01, body SAR for top configuration measurement was not required for WWAN mode because the top side of the EUT with WWAN antenna further than 25 mm from the surface.

3) According to KDB 941225 D01 3G SAR Procedures v03r01, HSDPA and HSUPA body SAR are not required, because the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode and 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.

4) Blue entries represent repeated test.

Measurement variability consideration

According to KDB 865664 D01v01r04 section 2.8.1, repeated measurements are required following the procedures as below:

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Band	Test configuration		Mode	Ch#.	Freq. (MHz)	Measured SAR (W/Kg)				
						Original	1st Repeated		2nd Repeated	
							Value	Ratio	Value	Ratio
GSM 1900	Body	Back	GPRS 4 slots	512	1850.2	1.24	1.23	1.01	NA	NA

SAR consideration for unlicensed transmitters:

The EUT support WIFI and Bluetooth functions, the output power of WIFI and Bluetooth are as follow:

WIFI (802.11b/g/n)

	Power（dBm）			
	802.11b	802.11g	802.11n(H20)	802.11n(H40)
Lowest	12.553	11.728	9.633	8.650
Middle	**12.895**	11.474	9.884	8.915
Highest	12.754	11.499	9.828	8.889
Tune-up limit	13.0	12.0	10.0	9.0

Bluetooth:

	Conducted power（dBm）		
	GFSK	Pi/4DQPSK	8QPSK
Lowest	4.940	4.127	4.277
Middle	5.440	4.735	4.593
Highest	5.607	4.888	4.705
Tune-up limit	6.0	5.0	5.0

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distances≤ 50 mm are determined by:

$$\frac{Max\ power\ of\ Channel(mW)}{Test\ Separation\ Dis\tan ce(mm)} * \sqrt{Frequency(GHz)} \le 3.0$$

1) WIFI maximum tune-up limit power is 13.0dBm=19.95mW, Bluetooth maximum tune-up limit power is 6dBm=3.98mW.

For the head and Body SAR, use 5mm and 10mm as the conservative minimum test separation distance respectively.

Mode	Frequency(MHz)	maximum Tune-up limit power(mW)	Separation Distance(mm)	≤3.0
WiFi(Head)	2437	19.95	5	6.23
WiFi(Body)	2437	19.95	10	3.11
Bluetooth (Head)	2480	3.98	5	1.25
Bluetooth (Body)	2480	3.98	10	0.63

So WIFI standalone SAR measurements are required for both head and body, and Bluetooth standalone SAR measurements are not required for both head and body.

The standalone SAR of WIFI is follow:

Test configuration		Mode	Ch#.	Freq. [MHz]	Power (dBm)		1g SAR (W/Kg)		Power Drift (dB)
					Tune-up limit	Measured	Measured	Scaled	
Head	Left Cheek	802.11b	6	2437	13	12.895	0.253	0.259	0.20
Head	Left Tilted	802.11b	6	2437	13	12.895	0.268	0.275	0.06
Head	Right Cheek	802.11b	6	2437	13	12.895	0.437	**0.448**	0.02
Head	Right Tilted	802.11b	6	2437	13	12.895	0.438	0.449	-0.01
Body	Back	802.11b	6	2437	13	12.895	0.070	0.072	-0.20
Body	Front	802.11b	6	2437	13	12.895	0.095	**0.097**	-0.13
Body	Left	802.11b	6	2437	13	12.895	0.074	0.076	-0.18
Body	Right	802.11b	6	2437	13	12.895	0.024	0.025	-0.00
Body	Top	802.11b	6	2437	13	12.895	0.058	0.059	-0.04

Note: 1) The body SAR was tested with separation distance 10mm.

2) According to KDB 941225 D06 Hotspot SAR v02r01, body SAR for bottom configuration measurements were not required for WIFI mode because the bottom side of the EUT with WIFI antenna further than 25 mm from these surfaces.

3) SAR is not required for 802.11g/n channels because the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

2) According to KDB 447498 section 4.3.2.2, when standalone SAR test exclusion applies, the standalone SAR must be estimated according to following formula:

$$Estimated\ SAR = \frac{\sqrt{f(GHz)}}{7.5} * \frac{Max\ power\ of\ Channel(mW)}{Min\ Test\ Separation\ Dis\tan ce(mm)}$$

Mode	Frequency(MHz)	maximum Tune-up limit power(mW)	Separation Distance(mm)	Estimated SAR(W/Kg)
Bluetooth (Head)	2480	3.98	5	0.167
Bluetooth (Body)	2480	3.98	10	0.084

So the estimated Bluetooth head SAR is 0.167 W/kg and the body SAR is 0.084 W/kg.

Result Summary:

Head SAR configuration

Mode	Channel	Position	1g SAR (W/Kg)
GSM850	190	Right , Cheek	0.348
GSM1900	810	Left , Cheek	0.181
WCDMA Band V	4183	Right , Cheek	0.274
WIFI(802.11g)	6	Right , Cheek	0.448
Bluetooth	/	/	0.167

Body Worn configuration

Mode	Channel	Position	1g SAR (W/Kg)
4Tx slots GPRS850	128	Back side	0.704
4Tx slots GPRS1900	512	Back side	1.37
WCDMA Band V	4183	Back side	0.551
WIFI(802.11b)	6	Front side	0.097
Bluetooth	/	/	0.084

Hotspot SAR configuration

Mode	Channel	Position	1g SAR (W/Kg)
4Tx slots GPRS850	128	Back side	0.704
4Tx slots GPRS1900	512	Back side	1.37
WCDMA Band V	4183	Back side	0.551
WIFI(802.11b)	6	Front side	0.097

Simultaneous SAR Consideration

The simultaneous SAR scenarios are as follow.

No	Simultaneous Configuration	Sum. SAR (W/kg)
1	Cellular head + WiFi head	0.796
2	Cellular body + WiFi body	1.467
3	Cellular head + BT head	0.515
4	Cellular body + BT body	1.454
5	Cellular Hotspot +WiFi Hotspot	1.467

The maximum evaluation SAR of the simultaneous scenarios is 1.467 W/kg that less than 1.6 W/kg, so the simultaneous SAR measurement is not required.

9. Equipment List & Calibration Status

Name of Equipment	Manufacturer	Type/Model	Serial Number	Cal. Date	Cal. Due Date
PC	HP	d7900eC	CZC9312JJ4	N/A	N/A
E-field Probe	SPEAG	ES3DV3	SN 3221	2015-1-31	2016-1-30
DAE	SPEAG	DAE4-SD 000 D04 BJ	SN 893	2015-1-23	2016-1-22
Device Holder	Stäubli	N/A	N/A	N/A	N/A
SAM Phantom	SPEAG	SAM Twin Phantom	TP-1545/TP-1548	N/A	N/A
6 Axis Robot	Stäubli	Robot TX90XL	F09/5B9UA1/A/01	N/A	N/A
Dipole 835MHz	SPEAG	D835V2	4d150	2015-9-18	2018-9-17
Dipole 1900MHz	SPEAG	D1900V2	5d070	2015-9-16	2018-9-15
Dipole 2450MHz	SPEAG	D2450V2	815	2014-9-14	2018-9-13
Wireless Communication Test Set	R&S	CMU200	120574	2015-8-21	2016-8-20
Wireless Communication Test Set	Anritsu	MT8820C	6201060976	2015-8-21	2016-8-20
Signal Generator	Agilent	5183A	MY49060563	2015-8-21	2016-8-20
Power Meter	Agilent	E4419B	MY45104719	2015-8-20	2016-8-19
Power Sensor	Agilent	N8481H	MY48100148	2015-8-20	2016-8-19
Directional couplers	Agilent	778D	MY48220223	N/A	N/A
Power amplifier	mini-circuits	ZHL-42W	QA0940002	N/A	N/A
Power supply	Topward	3303d	796708	2015-8-20	2016-8-19
Network Analyzer	Agilent	E5071C	MY46108263	2015-8-21	2016-8-20
Liquid Calibration Kit	Agilent	85070E	N/A	N/A	N/A

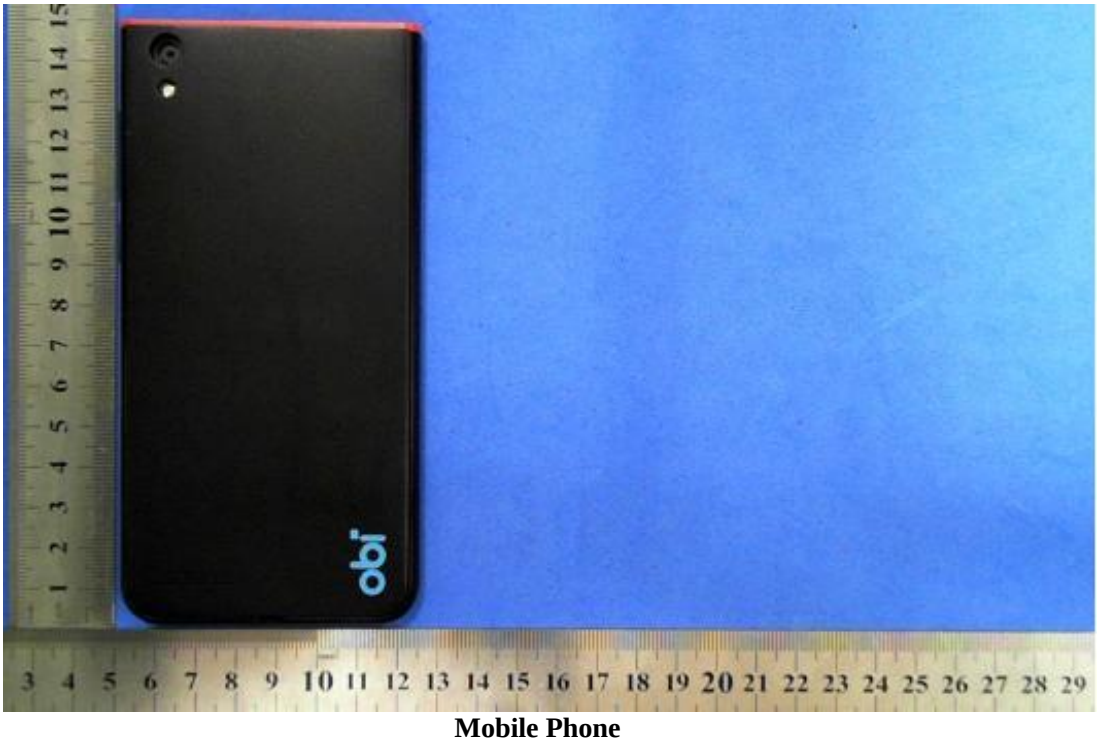
10. Measurement Uncertainty

Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Probe calibration	E.2.1	6.55	N	1.0	1.0	1.0	6.55	6.55	∞
Axial Isotropy	E.2.2	0.5	R	$\sqrt{3}$	1.0	1.0	0.29	0.29	∞
Hemispherical Isotropy	E.2.2	2.6	R	$\sqrt{3}$	1.0	1.0	1.5	1.5	∞
Boundary effect	E.2.3	0.8	R	$\sqrt{3}$	1.0	1.0	0.46	0.46	∞
Linearity	E.2.4	0.6	R	$\sqrt{3}$	1.0	1.0	0.35	0.35	∞
System detection limits	E.2.5	0.25	R	$\sqrt{3}$	1.0	1.0	0.14	0.14	∞
Readout Electronics	E.2.6	0.35	N	1	1.0	1.0	0.35	0.35	∞
Reponse Time	E.2.7	0	R	$\sqrt{3}$	1.0	1.0	0	0	∞
Integration Time	E.2.8	2.6	R	$\sqrt{3}$	1.0	1.0	1.5	1.5	∞
RF ambient Conditions-Noise	E.6.1	0	R	$\sqrt{3}$	1.0	1.0	0	0	∞
RF ambient Conditions-Reflections	E.6.1	3.0	R	$\sqrt{3}$	1.0	1.0	1.7	1.7	∞
Probe positioner Mechanical Tolerance	E.6.2	1.5	R	$\sqrt{3}$	1.0	1.0	0.87	0.87	∞
Probe positioning with respect to Phantom Shell	E.6.3	2.9	R	$\sqrt{3}$	1.0	1.0	1.67	1.67	∞
Extrapolation, interpolation and integration Algoritms for Max. SAR	E.5	1.0	R	$\sqrt{3}$	1.0	1.0	0.58	0.58	∞
Test sample Related									
Test Sample Positioning	E.4.2	4.6	N	1.0	1.0	1.0	4.6	4.6	N-1
Device Holder Uncertainty	E.4.1	5.2	N	1.0	1.0	1.0	5.2	5.2	N-1
Output Power Variation - SAR drift measurement	6.6.2	5	R	$\sqrt{3}$	1.0	1.0	2.89	2.89	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	4.0	R	$\sqrt{3}$	1.0	1.0	2.31	2.31	∞
Liquid conductivity - deviation from target value	E.3.2	5.0	R	$\sqrt{3}$	0.64	0.43	1.85	1.24	∞
Liquid conductivity - measurement uncertainty	E.3.3	2.5	N	1.0	0.64	0.43	1.60	1.08	M
Liquid permitivity - deviation from target value	E.3.2	5.0	R	$\sqrt{3}$	0.6	0.49	1.73	1.42	∞
Liquid permitivity - measurement uncertainty	E.3.3	2.5	N	1.0	0.6	0.49	1.5	1.23	M
Combined Standard Uncertainty			RSS				11.3	11.0	
Expanded Uncertainty (95% Confidence interval)			K				23	22	

ANNEX A: EUT Photos and Test Positions

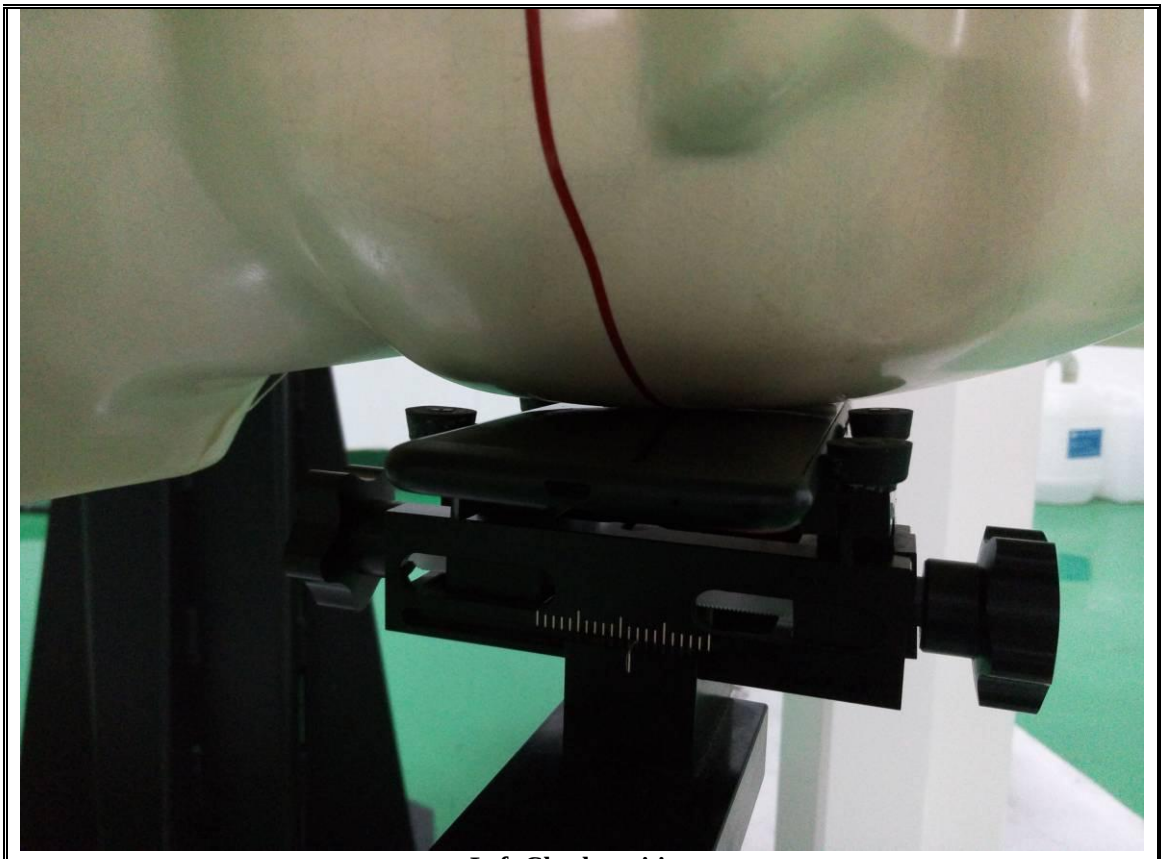
EUT Photos:

Mobile Phone

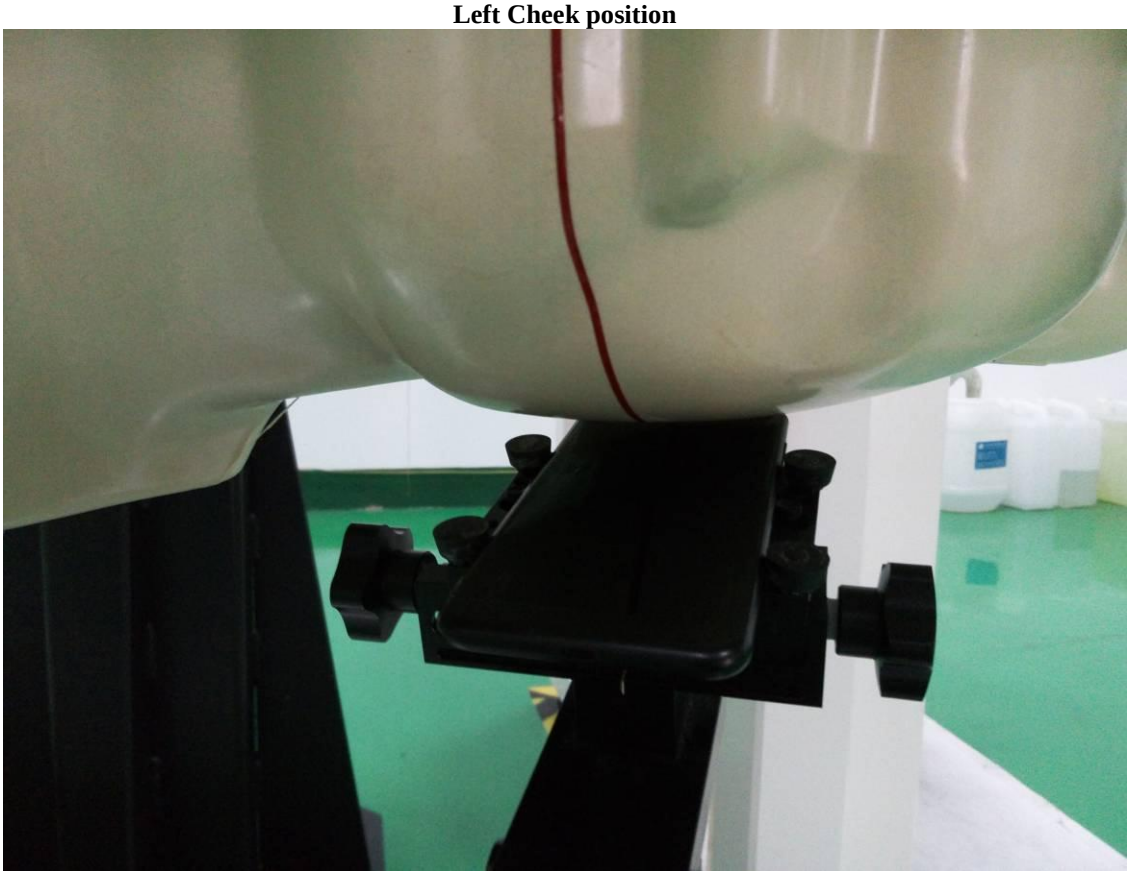


Mobile Phone

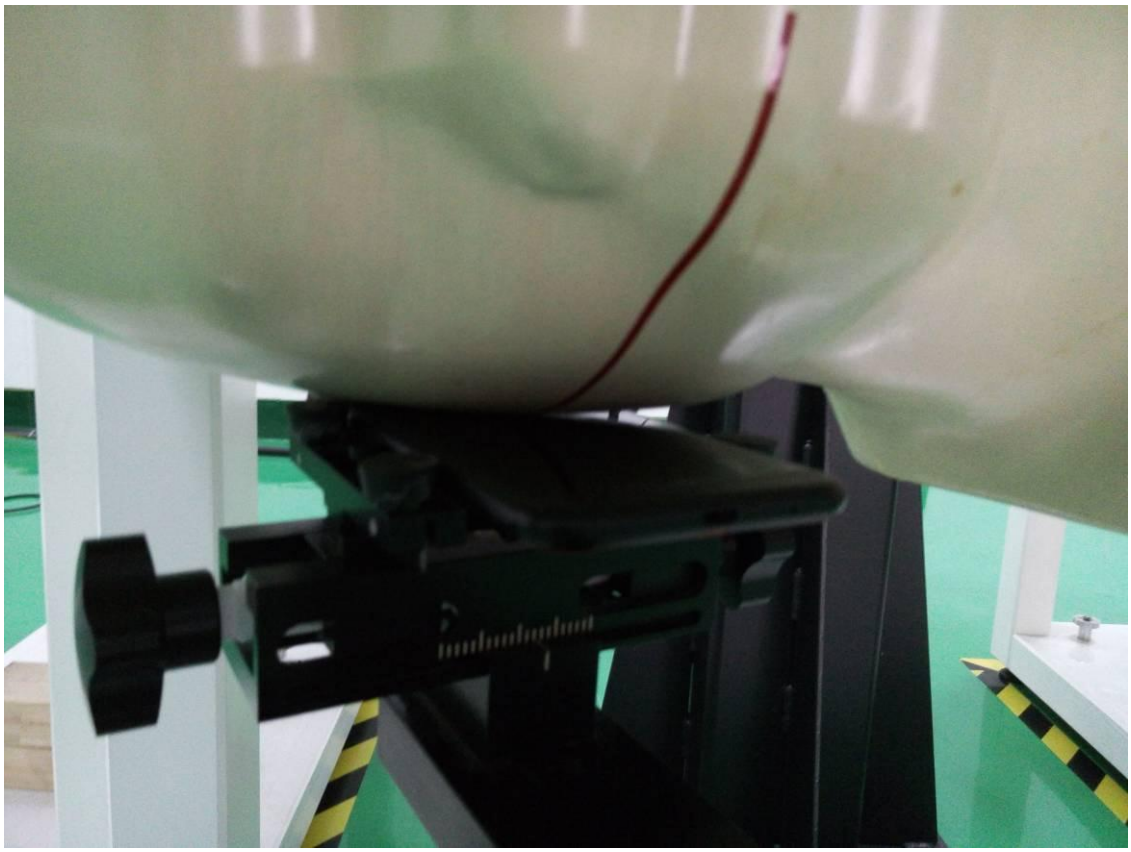
Test Positions:



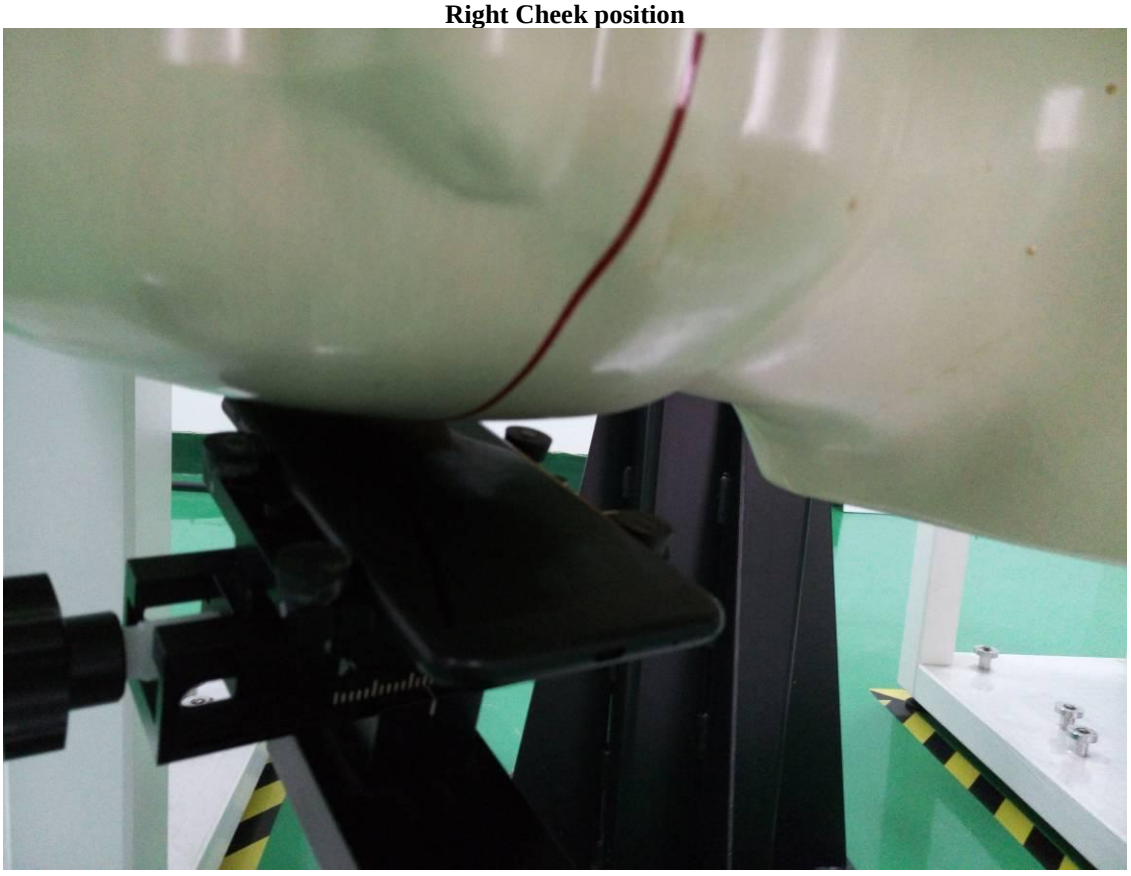
Left Cheek position



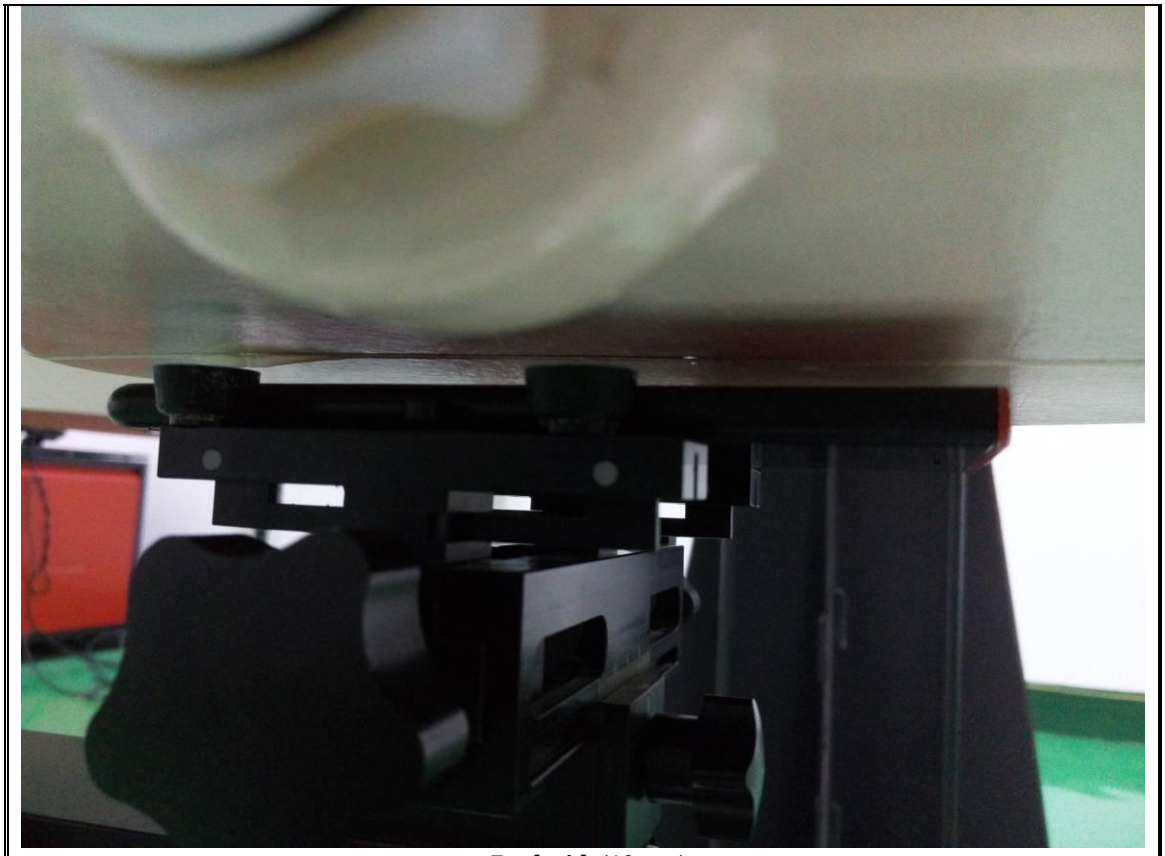
Left Tilted position



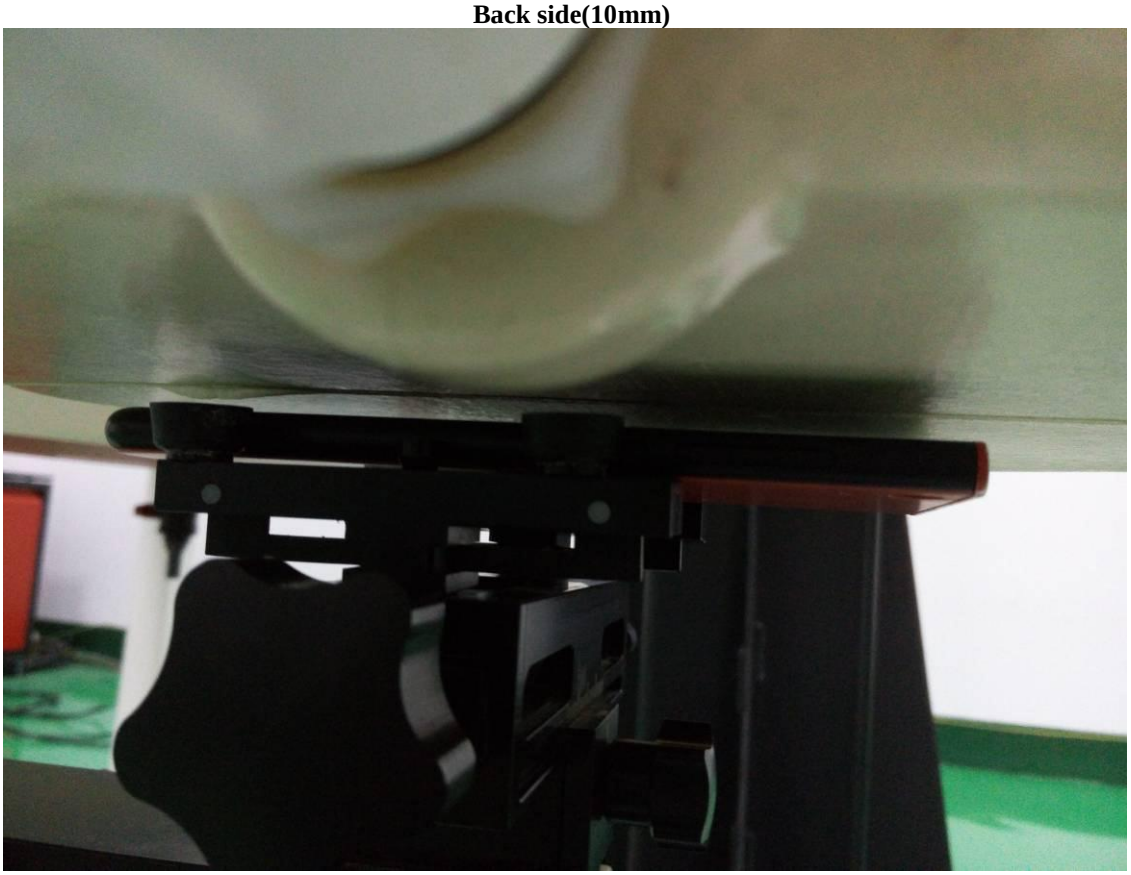
Right Cheek position



Right Tilted position



Back side(10mm)



Front side(10mm)

Right side(10mm)

Left side(10mm)

Bottom side(10mm)

Top side(10mm)

ANNEX B: System Performance Check Plots

Test Laboratory: GCCT Test Date: Oct. 24, 2015

System 835 MHz dipole (Head)

DUT: Dipole 835 MHz D835V2; Type: D835V2

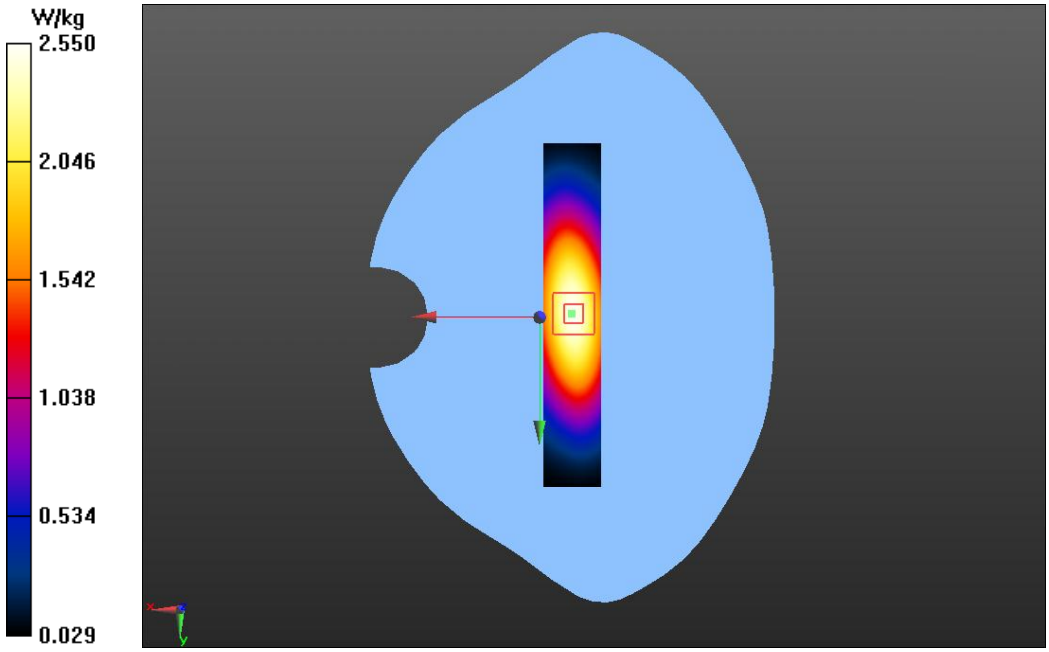
Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 835 MHz; σ = 0.89 mho/m; ε_r = 41.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.25, 6.25, 6.25); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

835Head/System/Area Scan (31x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 54.685 V/m; Power Drift = -0.10 dB
Maximum value of SAR (interpolated) = 2.55 W/kg

835Head/System/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.685 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 3.500 mW/g
SAR(1 g) = 2.37 mW/g; SAR(10 g) = 1.56 mW/g
Maximum value of SAR (measured) = 2.56 W/kg



Test Laboratory: GCCT Test Date: Oct. 25, 2015

System 835 MHz dipole (Body)

DUT: Dipole 835 MHz D835V2; Type: D835V2

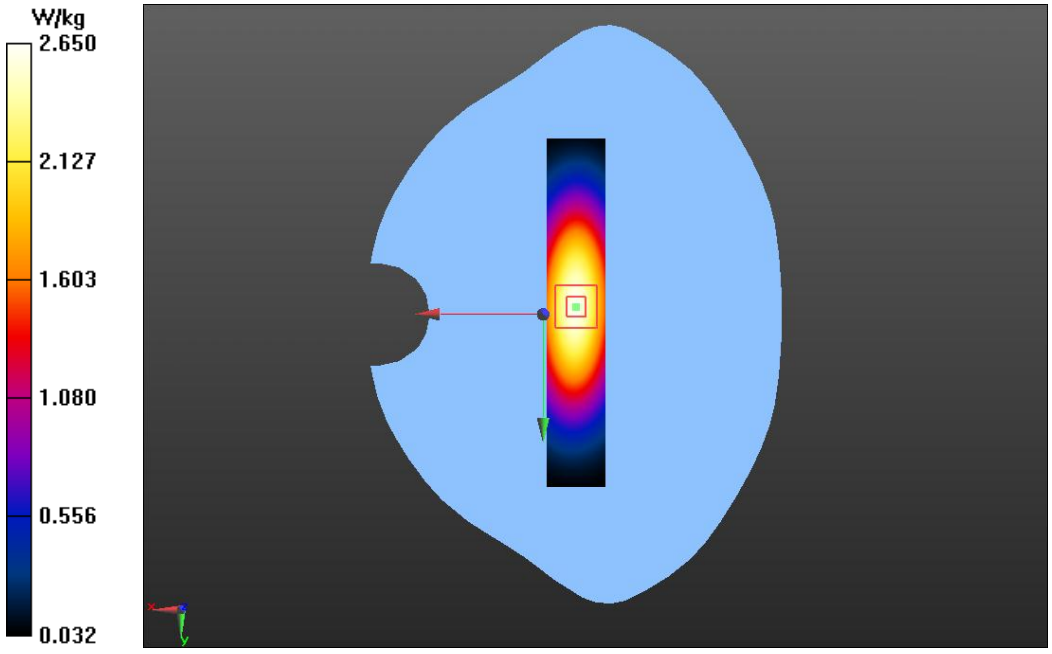
Communication System: CW; Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 835 MHz; σ = 0.96 mho/m; ε_r = 55.87; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

835Body/System/Area Scan (31x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 53.231 V/m; Power Drift = 0.01 dB
Maximum value of SAR (interpolated) = 2.65 W/kg

835Body/System/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 53.231 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.564 mW/g
SAR(1 g) = 2.46 mW/g; SAR(10 g) = 1.63 mW/g
Maximum value of SAR (measured) = 2.67 W/kg



Test Laboratory: GCCT Test Date: Oct. 26, 2015

System 1900 MHz dipole (head)

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

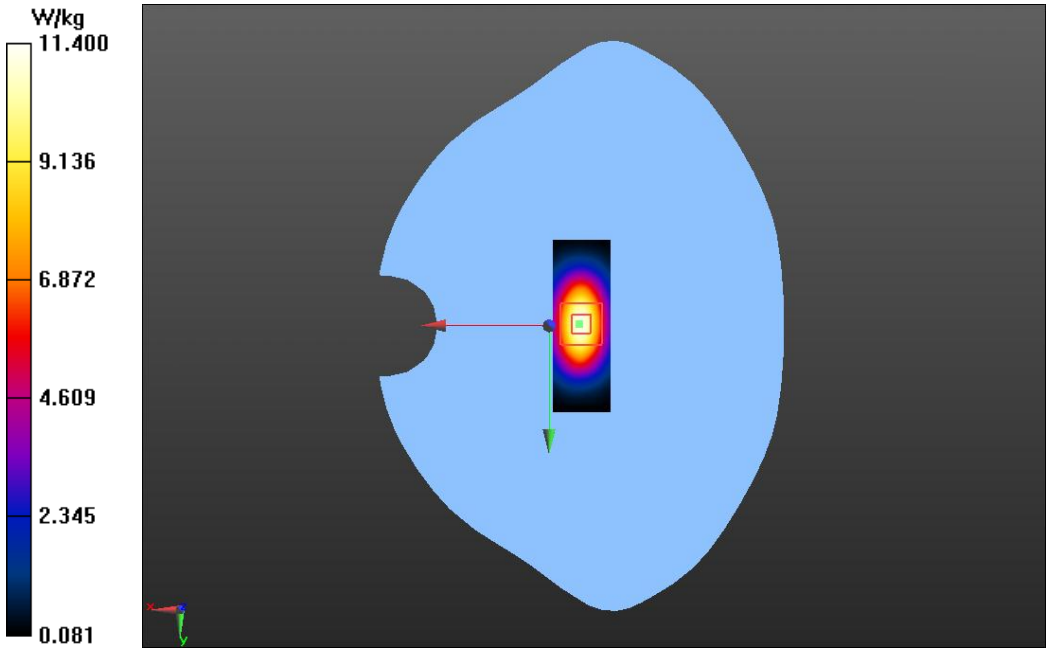
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1900 MHz; σ = 1.422 mho/m; ε_r = 40.328; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(5.2, 5.2, 5.2); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

1900Head/System 20140621/Area Scan (31x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 92.733 V/m; Power Drift = -0.41 dB
Maximum value of SAR (interpolated) = 11.4 W/kg

1900Head/System 20140621/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 92.733 V/m; Power Drift = -0.41 dB
Peak SAR (extrapolated) = 18.316 mW/g
SAR(1 g) = 9.83 mW/g; SAR(10 g) = 5.11 mW/g
Maximum value of SAR (measured) = 11.0 W/kg



Test Laboratory: GCCT Test Date: Oct. 26, 2015

System 1900 MHz dipole (Body)

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

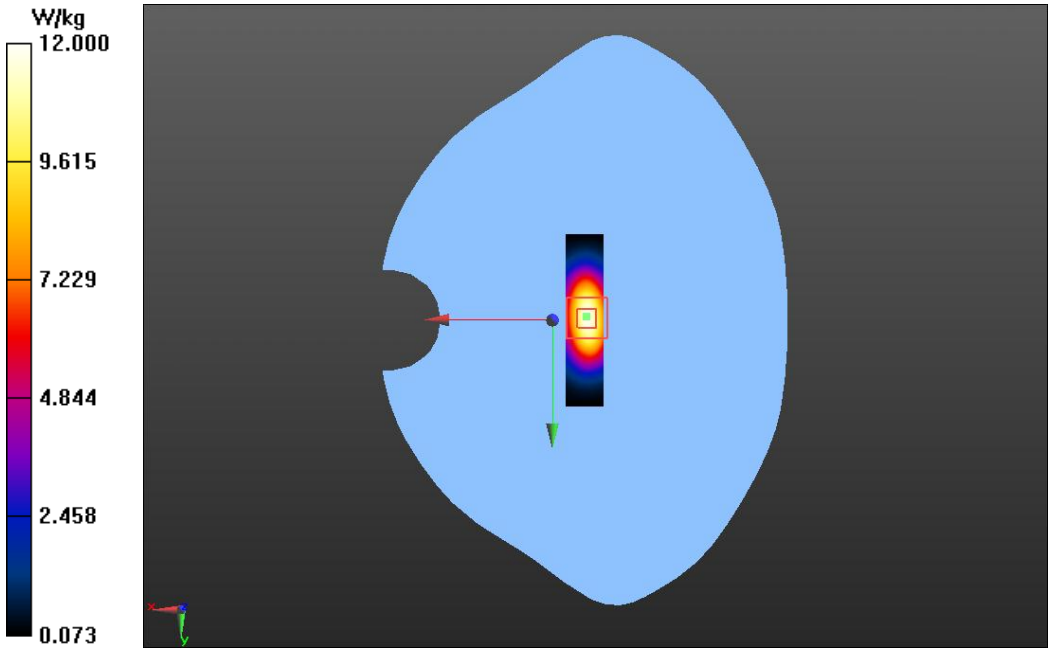
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 1900 MHz; σ = 1.57 mho/m; ε_r = 51.05; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.79, 4.79, 4.79); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

1900Body/System/Area Scan (21x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 88.532 V/m; Power Drift = -0.10 dB
Maximum value of SAR (interpolated) = 12.0 W/kg

1900Body/System/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 88.532 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 19.107 mW/g
SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.51 mW/g
Maximum value of SAR (measured) = 11.8 W/kg



Test Laboratory: GCCT Test Date: Oct. 19, 2015

System 2450 MHz dipole (Head)

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

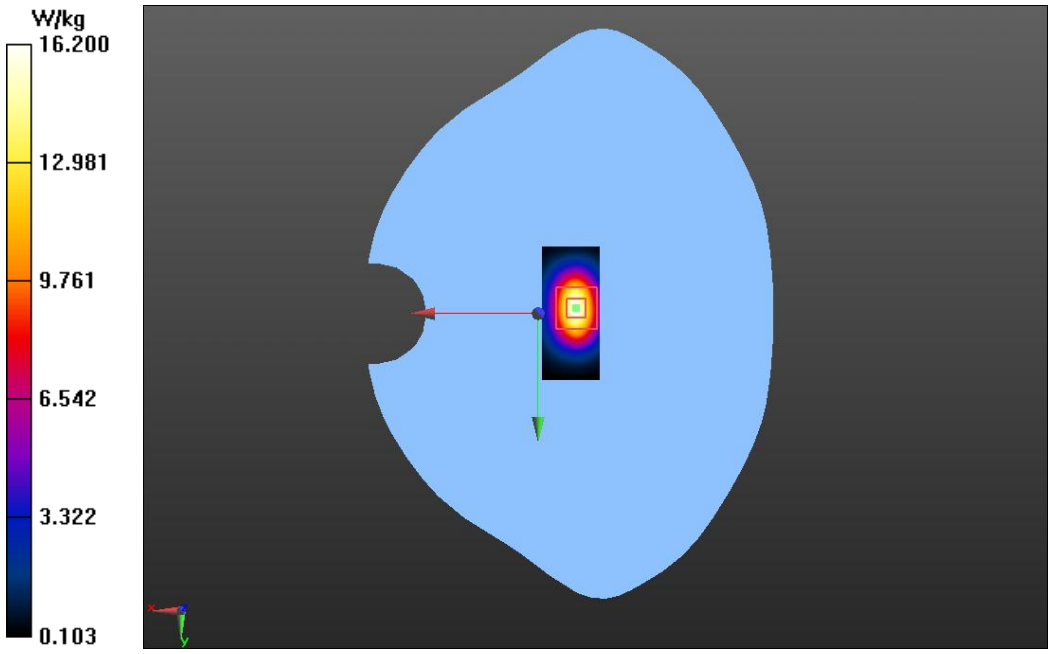
Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2450 MHz; σ = 1.864 mho/m; ε_r = 40.086; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.5, 4.5, 4.5); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

2450 Head/System/Area Scan (31x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 92.154 V/m; Power Drift = -0.13 dB
Maximum value of SAR (interpolated) = 16.2 W/kg

2450 Head/System/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 92.154 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 28.668 mW/g
SAR(1 g) = 13.8 mW/g; SAR(10 g) = 6.5 mW/g
Maximum value of SAR (measured) = 15.7 W/kg



Test Laboratory: GCCT Test Date: Oct. 19, 2015

System 2450 MHz dipole (Body)

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

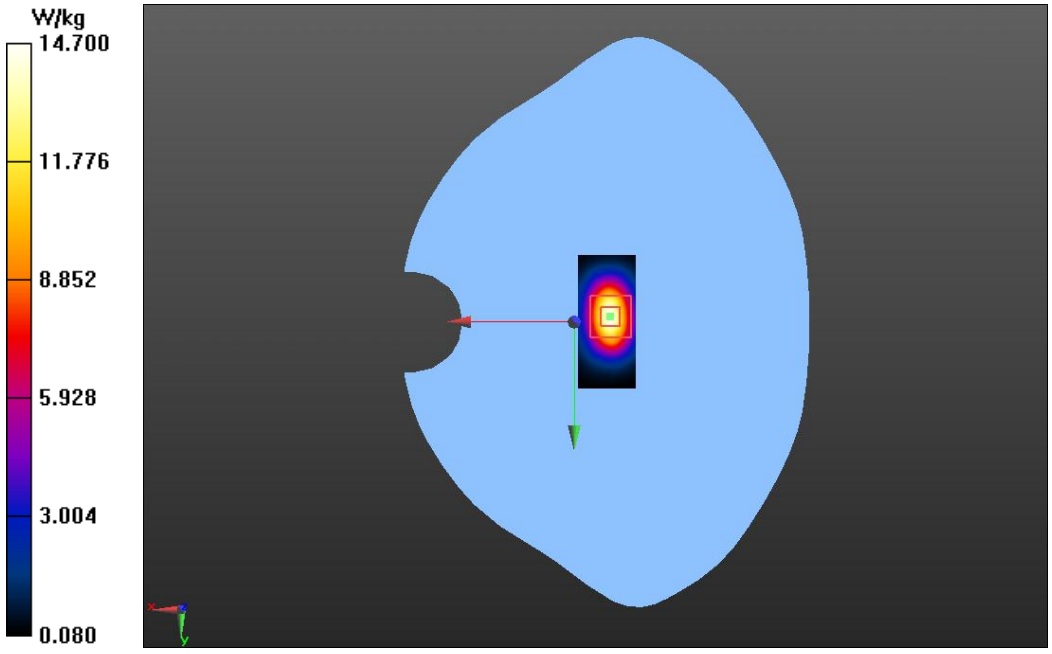
Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz;
Communication System PAR: 0 dB
Medium parameters used: f = 2450 MHz; σ = 1.902 mho/m; ε_r = 52.15; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.49, 4.49, 4.49); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

2450 Body/System check/Area Scan (31x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 86.432 V/m; Power Drift = -0.03 dB
Maximum value of SAR (interpolated) = 14.7 W/kg

2450 Body/System check/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 86.432 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 26.078 mW/g
SAR(1 g) = 12.7 mW/g; SAR(10 g) = 5.94 mW/g
Maximum value of SAR (measured) = 14.4 W/kg



ANNEX C: SAR Test Plots

Test Laboratory: GCCT Test Date: Oct. 24, 2015

GSM850 LEFT/CHEEK-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

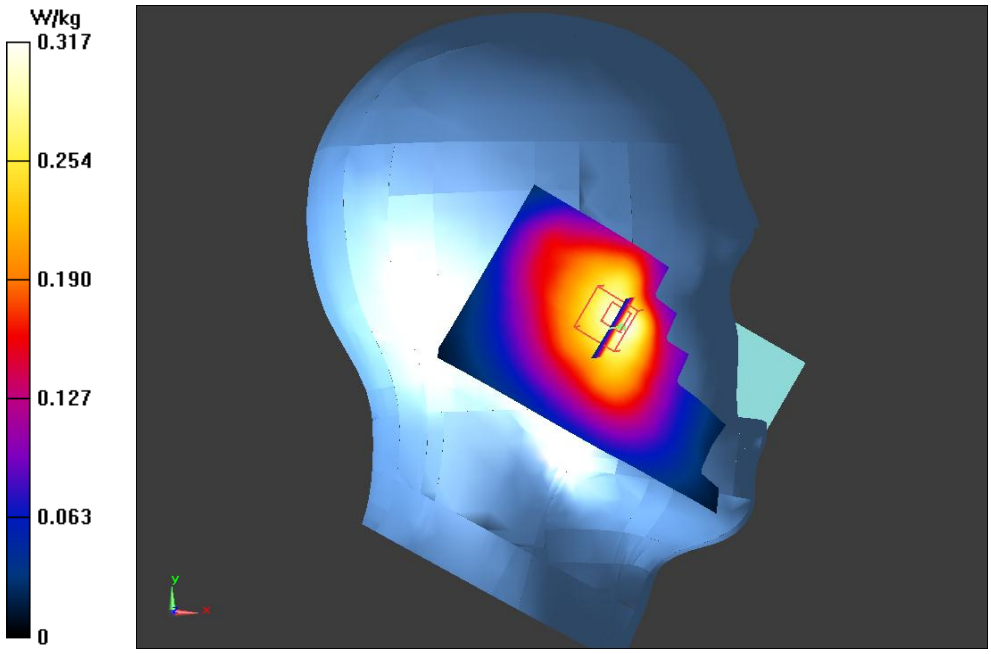
Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Communication System PAR: 9.191 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 mho/m; ε_r = 41.478; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.25, 6.25, 6.25); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 LEFT/CHEEK-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.894 V/m; Power Drift = -0.20 dB
Maximum value of SAR (interpolated) = 0.317 W/kg

GSM850 LEFT/CHEEK-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.894 V/m; Power Drift = -0.20 dB
Peak SAR (extrapolated) = 0.349 mW/g
SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.220 mW/g
Maximum value of SAR (measured) = 0.295 W/kg



Test Laboratory: GCCT Test Date: Oct.24, 2015

GSM850 LEFT/TILT-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

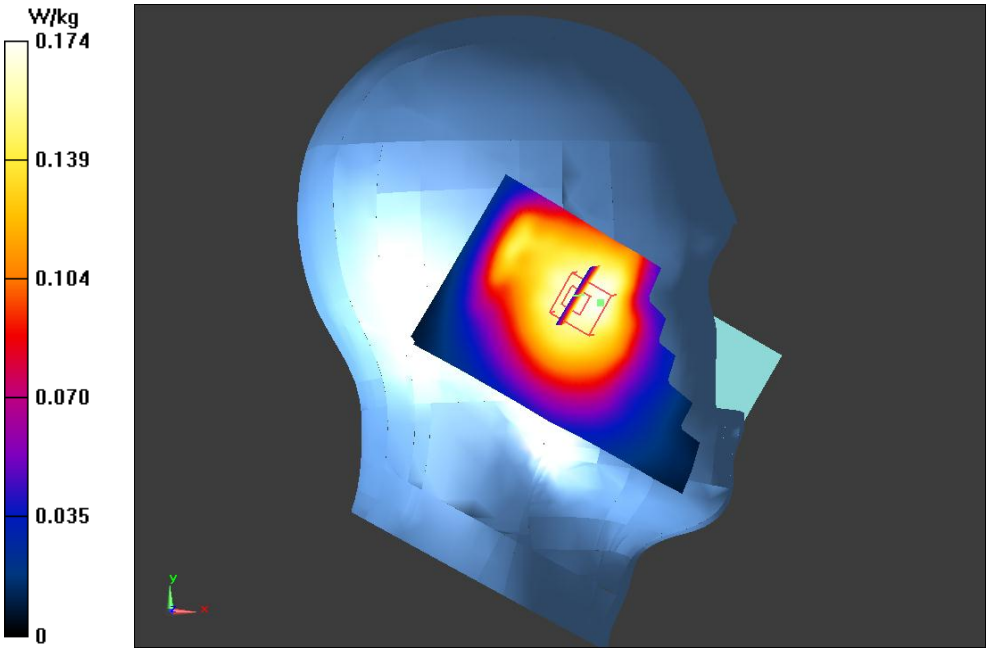
Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Communication System PAR: 9.191 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 mho/m; ε_r = 41.478; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.25, 6.25, 6.25); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 LEFT/TILT-Mid/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.104 V/m; Power Drift = -0.15 dB
Maximum value of SAR (interpolated) = 0.174 W/kg

GSM850 LEFT/TILT-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.104 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.191 mW/g
SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.135 mW/g
Maximum value of SAR (measured) = 0.171 W/kg



Test Laboratory: GCCT Test Date: Oct.24, 2015

GSM850 RIGHT/CHEEK-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

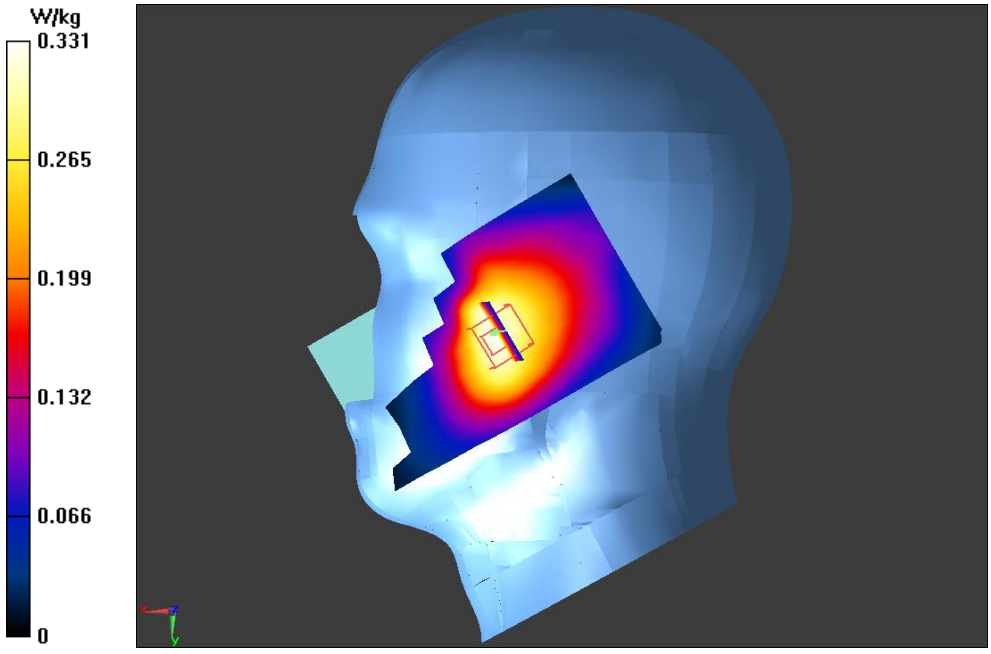
Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Communication System PAR: 9.191 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 mho/m; ε_r = 41.478; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

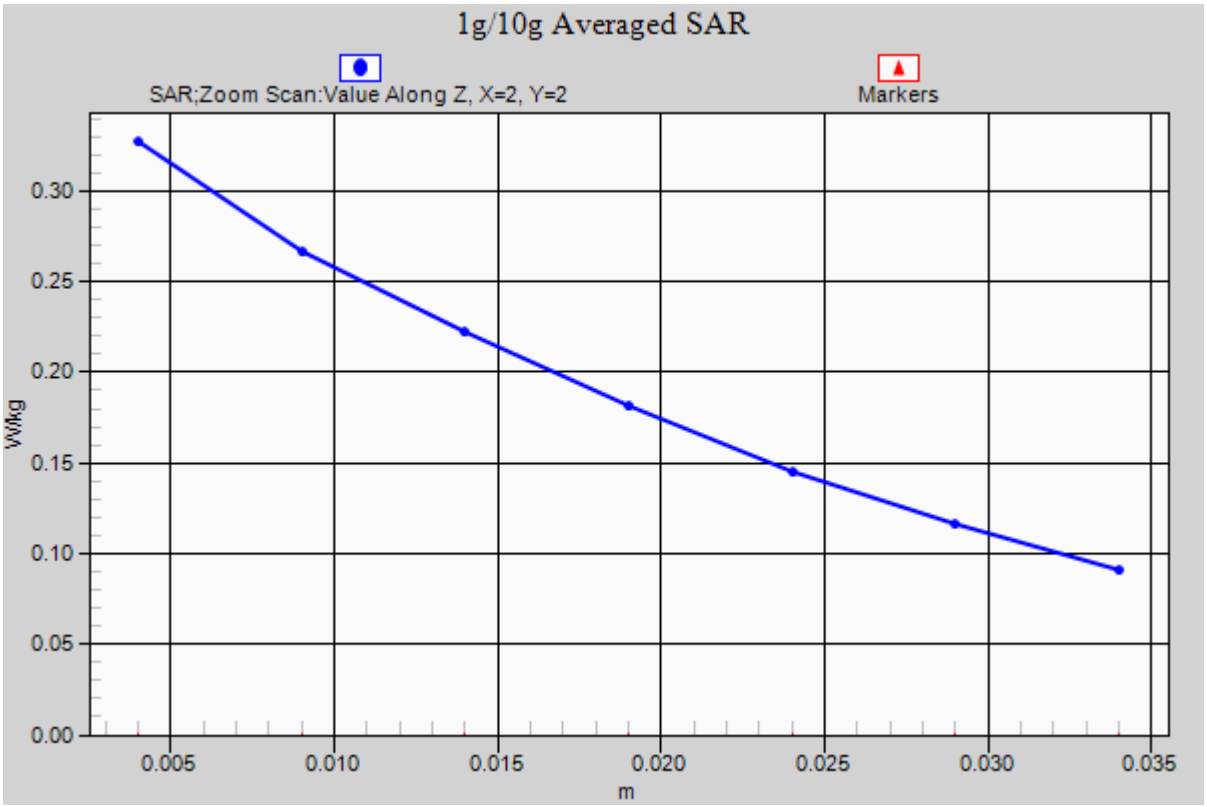
- Probe: ES3DV3 - SN3221; ConvF(6.25, 6.25, 6.25); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 RIGHT/CHEEK-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 11.712 V/m; Power Drift = 0.08 dB
Maximum value of SAR (interpolated) = 0.331 W/kg

GSM850 RIGHT/CHEEK-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.712 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.381 mW/g
SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.244 mW/g
Maximum value of SAR (measured) = 0.327 W/kg



Test Laboratory: GCCT Test Date: Oct.24, 2015



GSM850 RIGHT/CHEEK-Mid_ axis scan

Test Laboratory: GCCT Test Date: Oct.24, 2015

GSM850 RIGHT/TILT-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

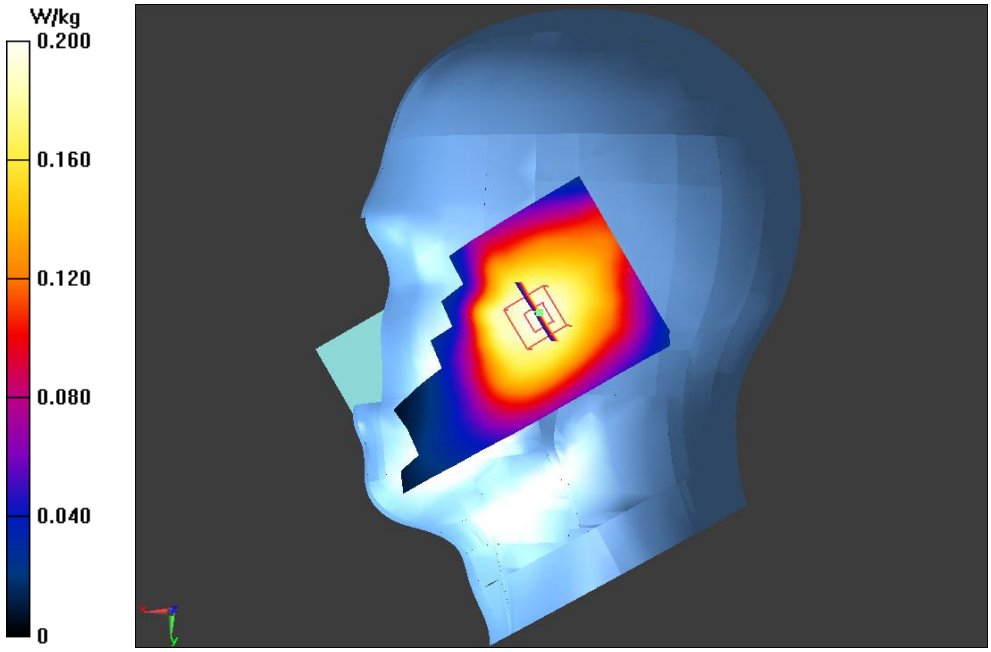
Communication System: Generic GSM; Communication System Band: GSM 850 (824.0 - 849.0 MHz); Frequency: 836.6 MHz; Communication System PAR: 9.191 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 mho/m; ε_r = 41.478; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.25, 6.25, 6.25); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 RIGHT/TILT-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.148 V/m; Power Drift = -0.10 dB
Maximum value of SAR (interpolated) = 0.200 W/kg

GSM850 RIGHT/TILT-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.148 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.230 mW/g
SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.157 mW/g
Maximum value of SAR (measured) = 0.202 W/kg



Test Laboratory: GCCT Test Date: Oct.25, 2015

GSM850 BODY/Back-Low

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

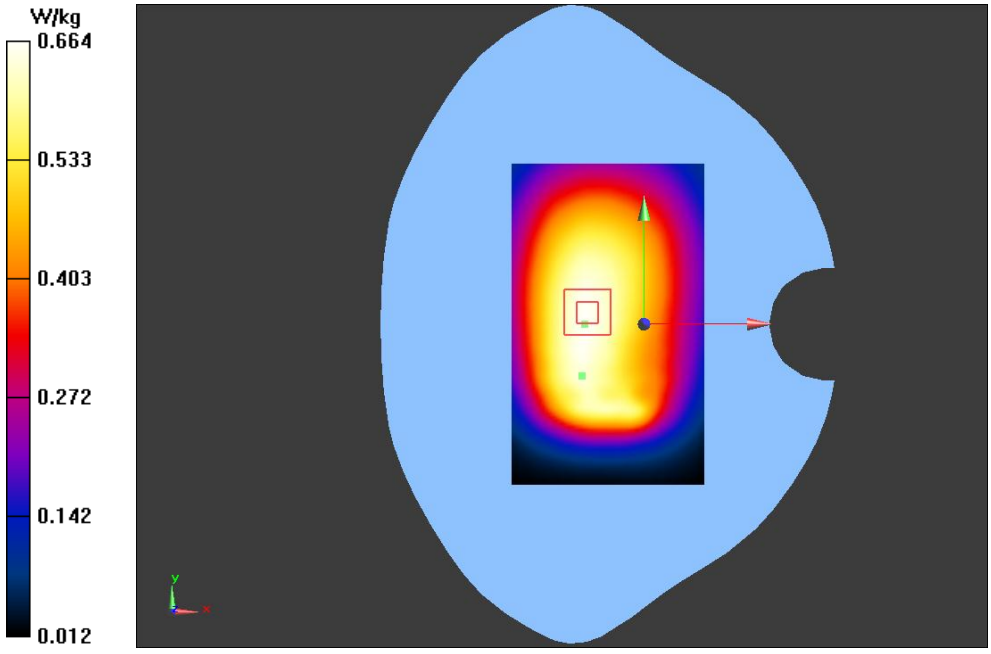
Communication System: GPRS(4slots); Communication System Band: GSM850; Frequency: 824.2 MHz;
Communication System PAR: 3.181 dB
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.95 mho/m; ε_r = 55.959; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

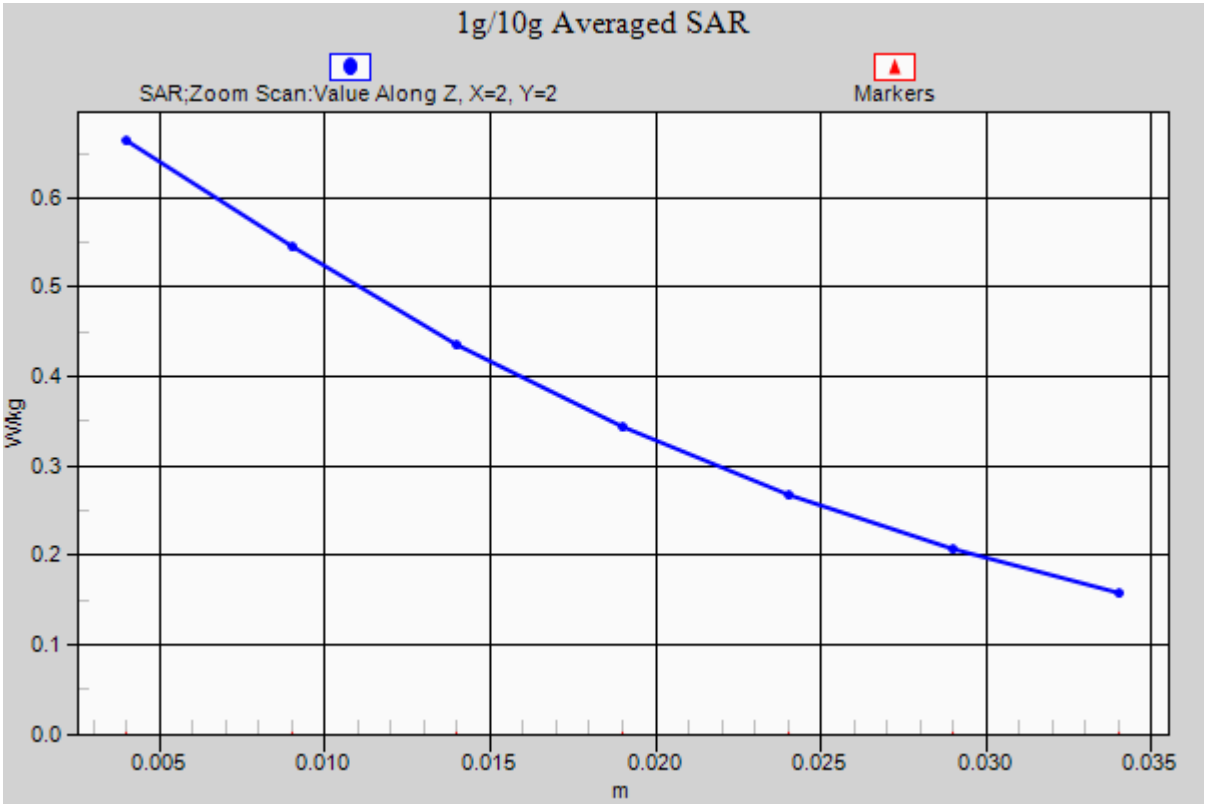
- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 BODY/Back-Low/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 26.084 V/m; Power Drift = -0.01 dB
Maximum value of SAR (interpolated) = 0.664 W/kg

GSM850 BODY/Back-Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.084 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.755 mW/g
SAR(1 g) = 0.636 mW/g; SAR(10 g) = 0.503 mW/g
Maximum value of SAR (measured) = 0.664 W/kg



Test Laboratory: GCCT Test Date: Oct.25, 2015



GSM850 BODY/Back-Low_ axis scan

Test Laboratory: GCCT Test Date: Oct.25, 2015

GSM850 BODY/Front-Low

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

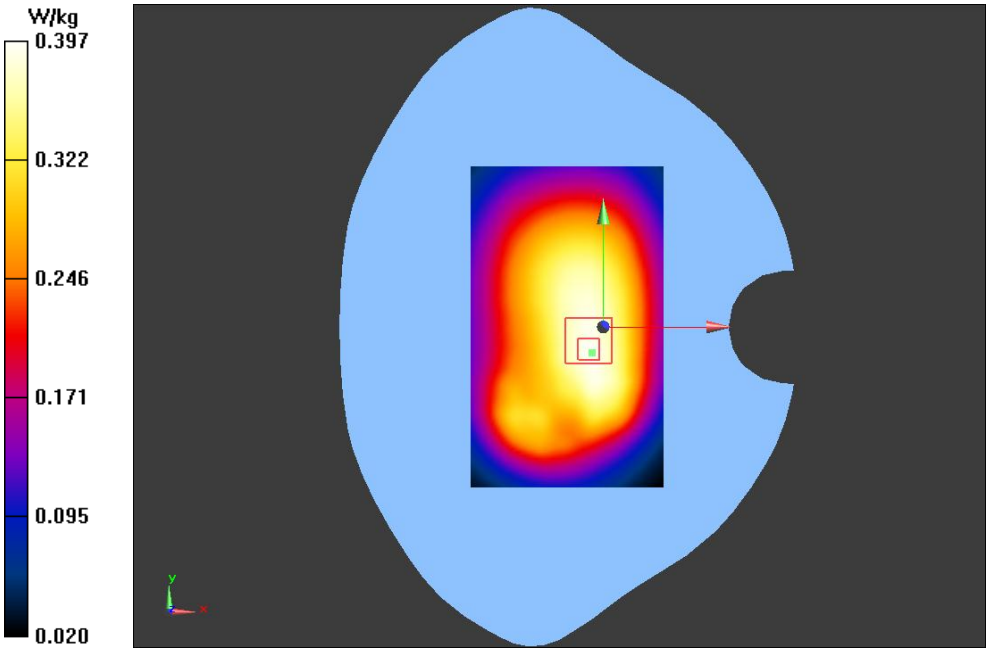
Communication System: GPRS(4slots); Communication System Band: GSM850; Frequency: 824.2 MHz;
Communication System PAR: 3.181 dB
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.95 mho/m; ε_r = 55.959; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 BODY/Front-Low/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.100 V/m; Power Drift = -0.03 dB
Maximum value of SAR (interpolated) = 0.397 W/kg

GSM850 BODY/Front-Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.100 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.448 mW/g
SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.297 mW/g
Maximum value of SAR (measured) = 0.393 W/kg



Test Laboratory: GCCT Test Date: Oct.25, 2015

GSM850 Left-Low

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

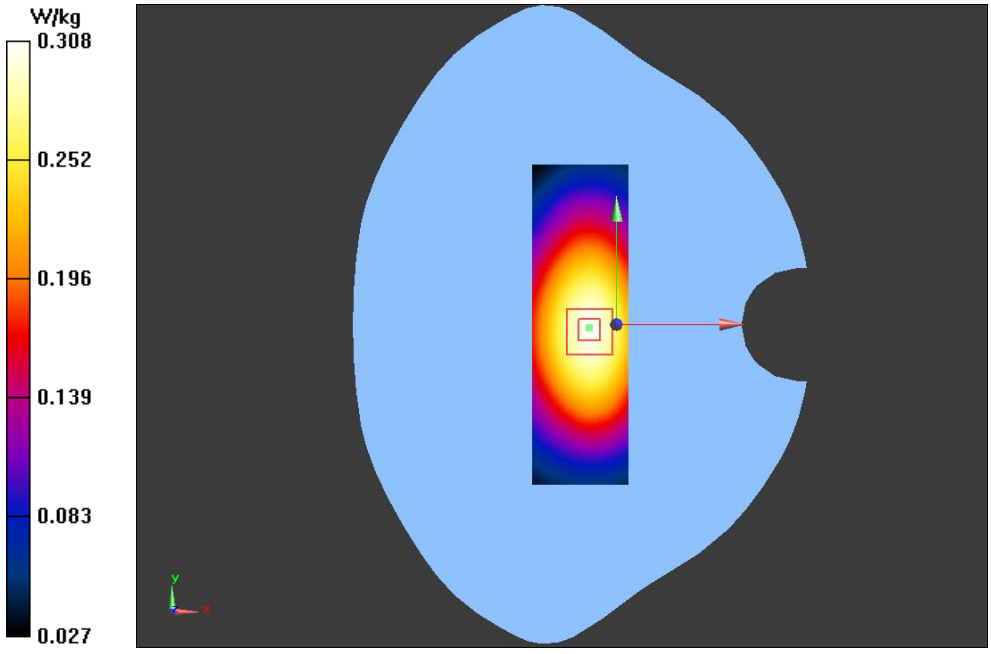
Communication System: GPRS(4slots); Communication System Band: GSM850; Frequency: 824.2 MHz;
Communication System PAR: 3.181 dB
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.95 mho/m; ε_r = 55.959; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 /Left-Low/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.161 V/m; Power Drift = -0.09 dB
Maximum value of SAR (interpolated) = 0.308 W/kg

GSM850 /Left-Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.161 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.362 mW/g
SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.216 mW/g
Maximum value of SAR (measured) = 0.306 W/kg



Test Laboratory: GCCT Test Date: Oct.25, 2015

GSM850 Right-Low

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

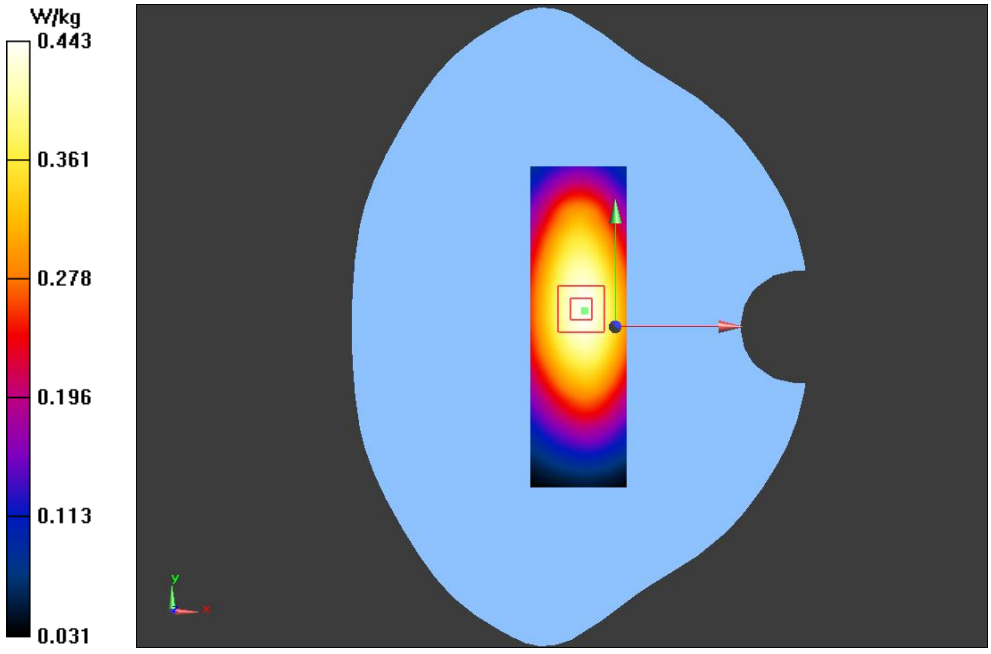
Communication System: GPRS(4slots); Communication System Band: GSM850; Frequency: 824.2 MHz;
Communication System PAR: 3.181 dB
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.95 mho/m; ε_r = 55.959; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 Right-Low/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.863 V/m; Power Drift = -0.01 dB
Maximum value of SAR (interpolated) = 0.443 W/kg

GSM850 /Right-Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.863 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.535 mW/g
SAR(1 g) = 0.419 mW/g; SAR(10 g) = 0.312 mW/g
Maximum value of SAR (measured) = 0.441 W/kg



Test Laboratory: GCCT Test Date: Oct.25, 2015

GSM850 /Bottom-Low

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

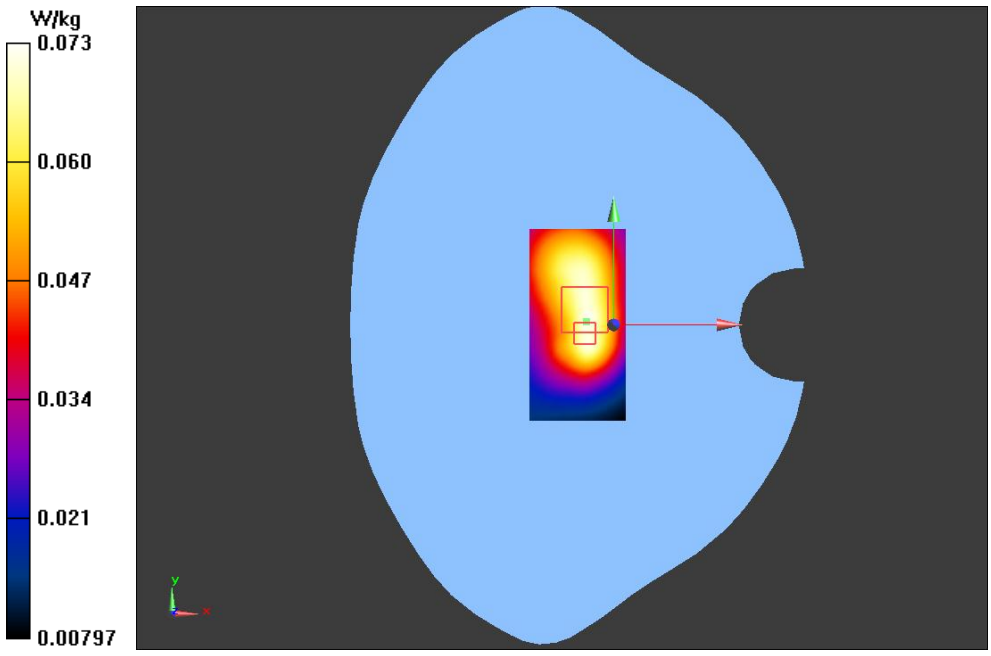
Communication System: GPRS(4slots); Communication System Band: GSM850; Frequency: 824.2 MHz;
Communication System PAR: 3.181 dB
Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.95 mho/m; ε_r = 55.959; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 /Bottom-Low/Area Scan (31x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.869 V/m; Power Drift = -0.11 dB
Maximum value of SAR (interpolated) = 0.0730 W/kg

GSM850 /Bottom-Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.869 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.129 mW/g
SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.042 mW/g
Maximum value of SAR (measured) = 0.0741 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015

PCS1900 LEFT/CHEEK-High

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

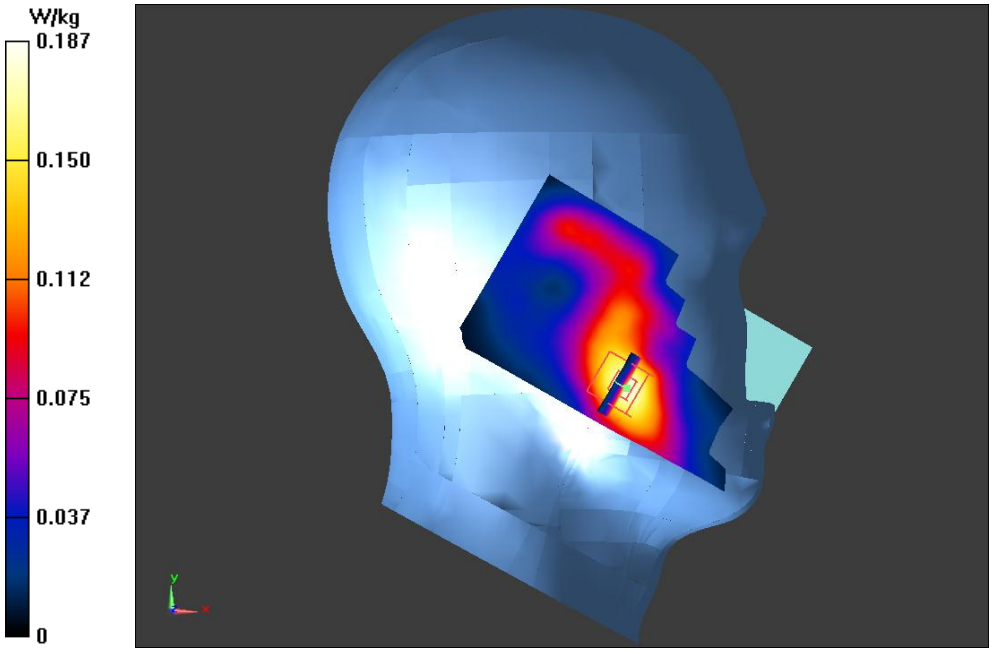
Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);
Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB
Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ε_r = 39.927; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

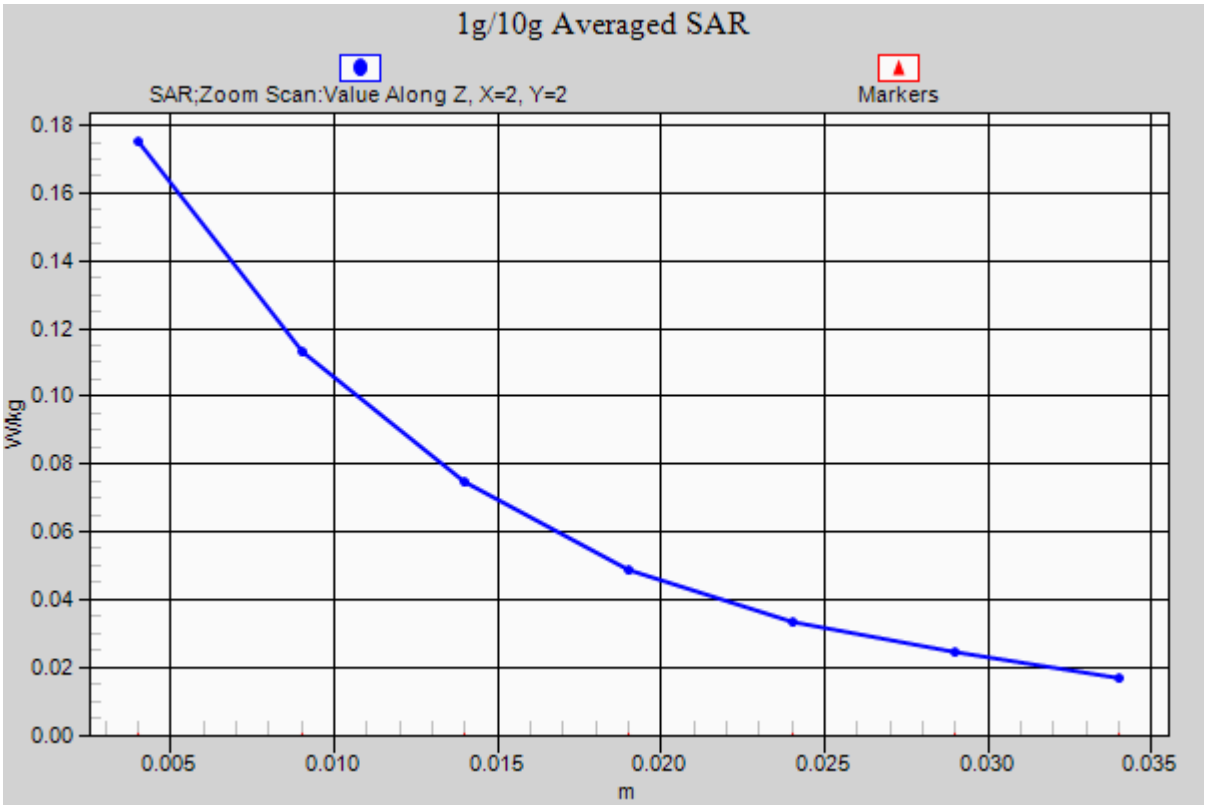
- Probe: ES3DV3 - SN3221; ConvF(5.2, 5.2, 5.2); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

PCS1900 LEFT/CHEEK-High/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.096 V/m; Power Drift = -0.04 dB
Maximum value of SAR (interpolated) = 0.187 W/kg

PCS1900 LEFT/CHEEK-High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.096 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.250 mW/g
SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.101 mW/g
Maximum value of SAR (measured) = 0.175 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015



PCS1900 LEFT/CHEEK-High_ axis scan

Test Laboratory: GCCT Test Date: Oct.26, 2015

PCS1900 LEFT/TILT-High

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

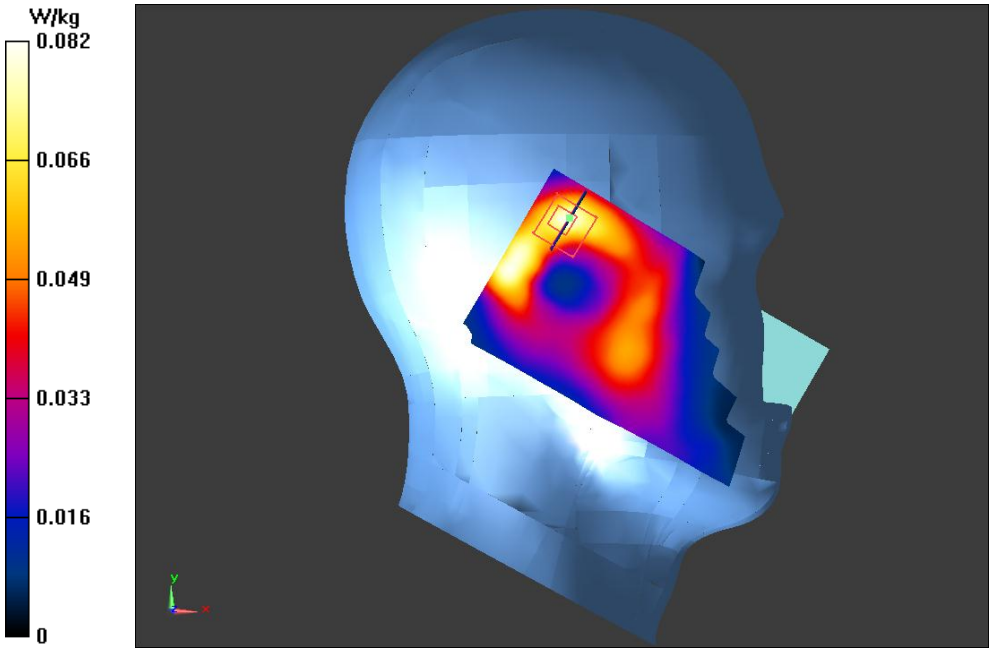
Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);
Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB
Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ε_r = 39.927; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(5.2, 5.2, 5.2); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

PCS1900 LEFT/TILT-High/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.178 V/m; Power Drift = 0.05 dB
Maximum value of SAR (interpolated) = 0.0820 W/kg

PCS1900 LEFT/TILT-High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.178 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.120 mW/g
SAR(1 g) = 0.071 mW/g; SAR(10 g) = 0.042 mW/g
Maximum value of SAR (measured) = 0.0767 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015

PCS1900 RIGHT/CHEEK-High

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

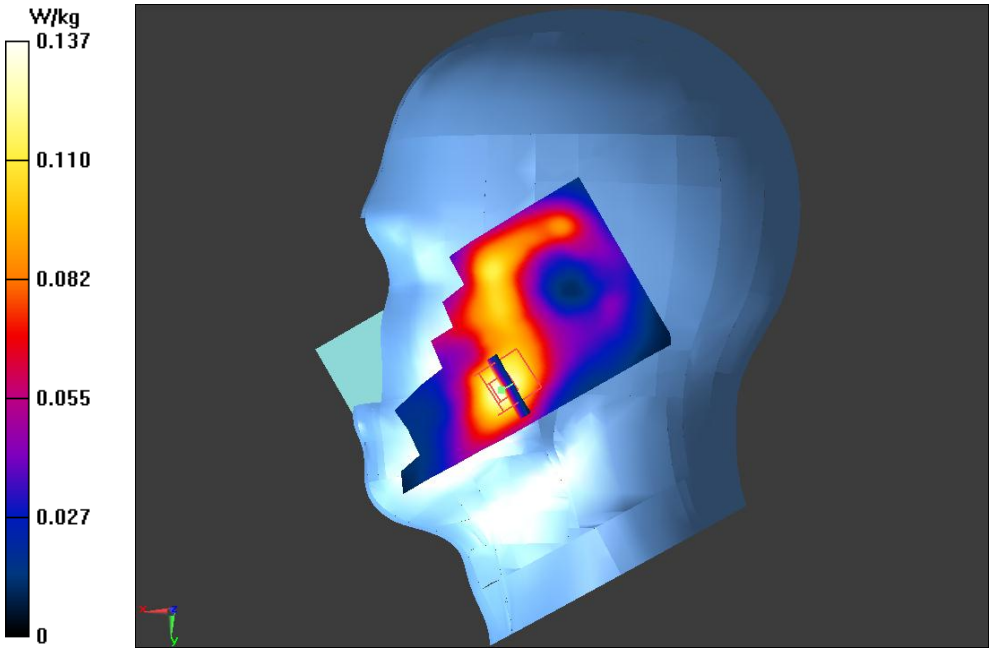
Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);
Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB
Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ε_r = 39.927; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(5.2, 5.2, 5.2); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

PCS1900 RIGHT/CHEEK-High/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.005 V/m; Power Drift = 0.13 dB
Maximum value of SAR (interpolated) = 0.137 W/kg

PCS1900 RIGHT/CHEEK-High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.005 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.171 mW/g
SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.074 mW/g
Maximum value of SAR (measured) = 0.123 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015

PCS1900 RIGHT/TILT-High

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

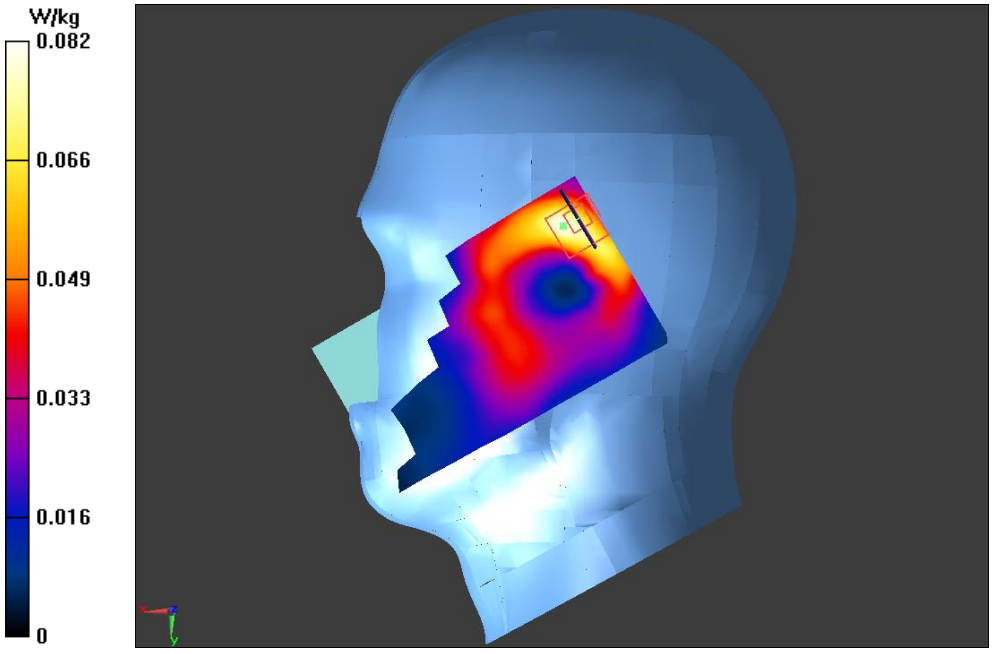
Communication System: Generic GSM; Communication System Band: PCS 1900 (1850.0 - 1910.0 MHz);
Frequency: 1909.8 MHz; Communication System PAR: 9.191 dB
Medium parameters used: f = 1910 MHz; σ = 1.47 mho/m; ε_r = 39.927; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(5.2, 5.2, 5.2); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

PCS1900 RIGHT/TILT-High/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.169 V/m; Power Drift = -0.16 dB
Maximum value of SAR (interpolated) = 0.0821 W/kg

PCS1900 RIGHT/TILT-High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.169 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.250 mW/g
SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.045 mW/g
Maximum value of SAR (measured) = 0.0868 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015

PCS1900 BODY/Back-High

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

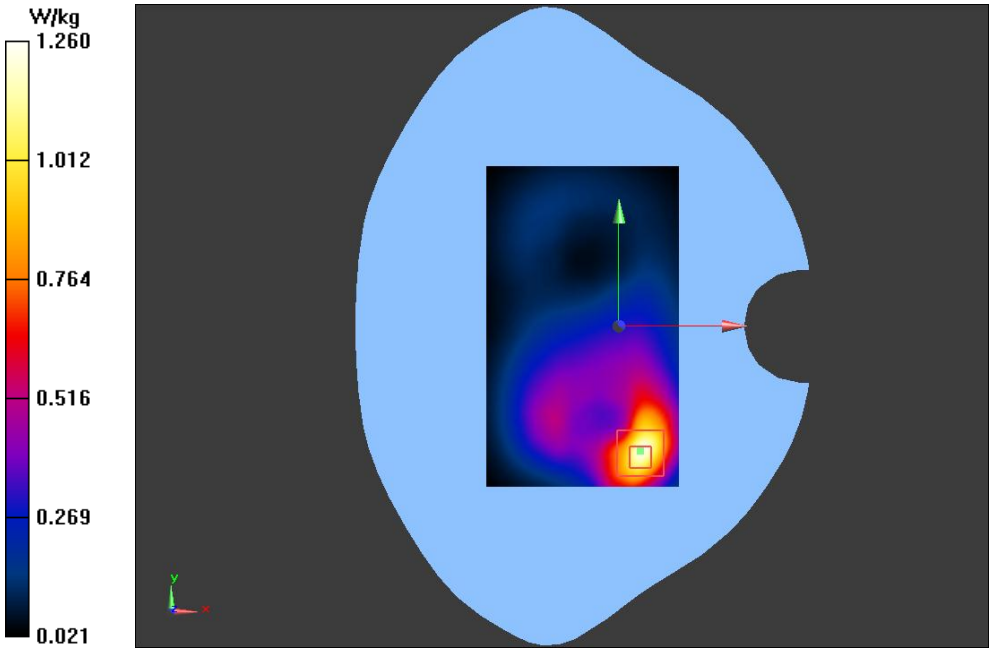
Communication System: GPRS(4slots); Communication System Band: PCS1900; Frequency: 1909.8 MHz;
Communication System PAR: 3.181 dB
Medium parameters used: f = 1909.8 MHz; σ = 1.6 mho/m; ε_r = 51.04; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.79, 4.79, 4.79); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

PCS1900 BODY/Back-High/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.292 V/m; Power Drift = -0.05 dB
Maximum value of SAR (interpolated) = 1.26 W/kg

PCS1900 BODY/Back-High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.292 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 2.141 mW/g
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.575 mW/g
Maximum value of SAR (measured) = 1.21 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015

PCS1900 BODY/Back-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

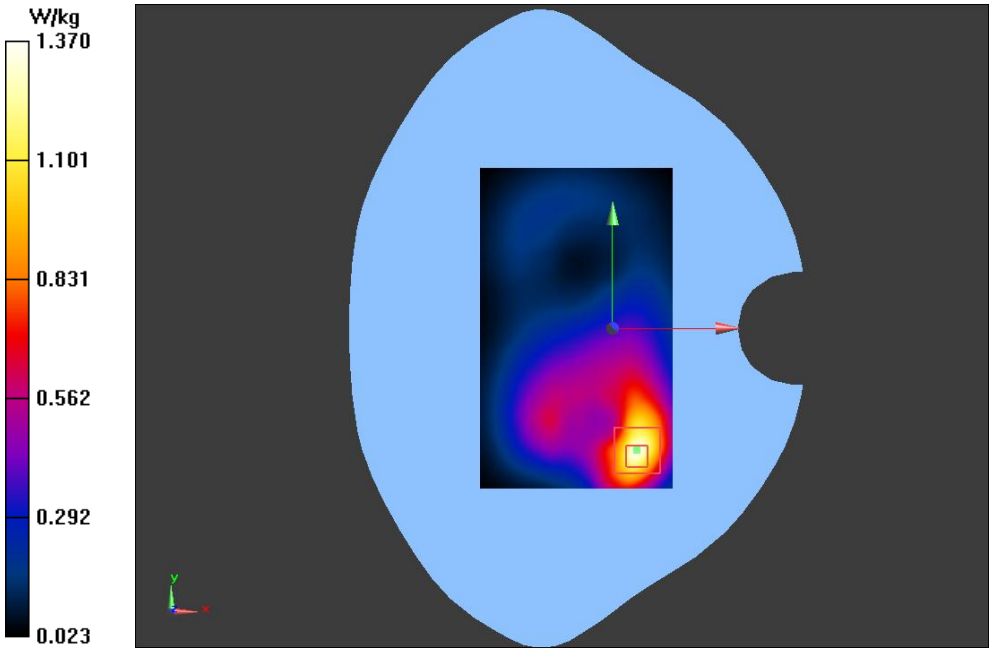
Communication System: GPRS(4slots); Communication System Band: PCS1900; Frequency: 1880 MHz;
Communication System PAR: 3.181 dB
Medium parameters used: f = 1880 MHz; σ = 1.57 mho/m; ε_r = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.79, 4.79, 4.79); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

PCS1900 BODY/Back-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.321 V/m; Power Drift = -0.08 dB
Maximum value of SAR (interpolated) = 1.37 W/kg

PCS1900 BODY/Back-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.321 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.122 mW/g
SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.620 mW/g
Maximum value of SAR (measured) = 1.27 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015

PCS1900 BODY/Back-Low

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

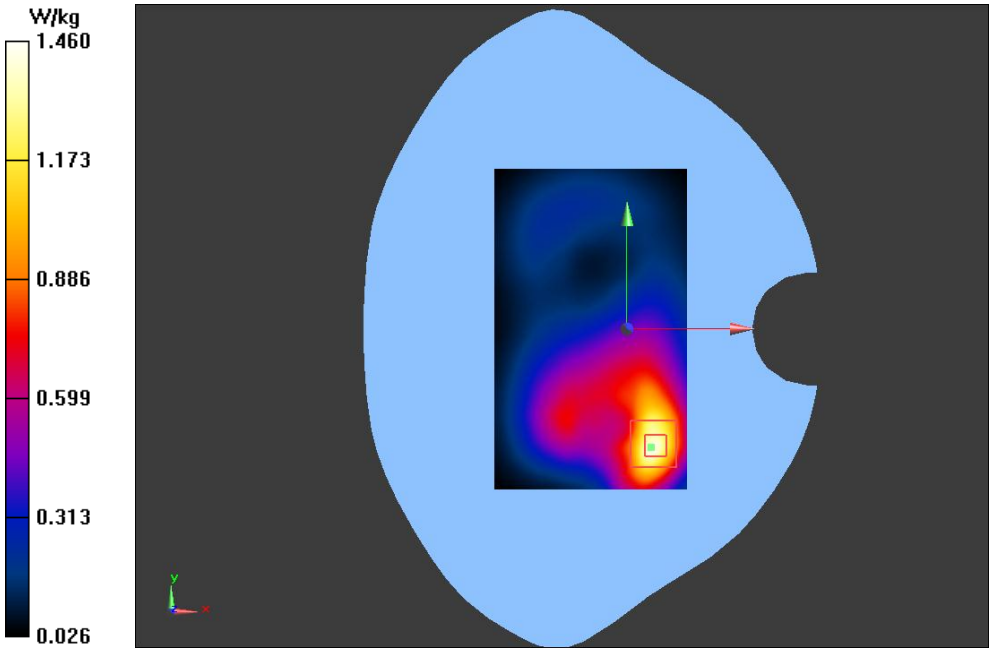
Communication System: GPRS(4slots); Communication System Band: PCS1900; Frequency: 1850.2 MHz;
Communication System PAR: 3.181 dB
Medium parameters used: f = 1850.2 MHz; σ = 1.53 mho/m; ε_r = 51.24; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

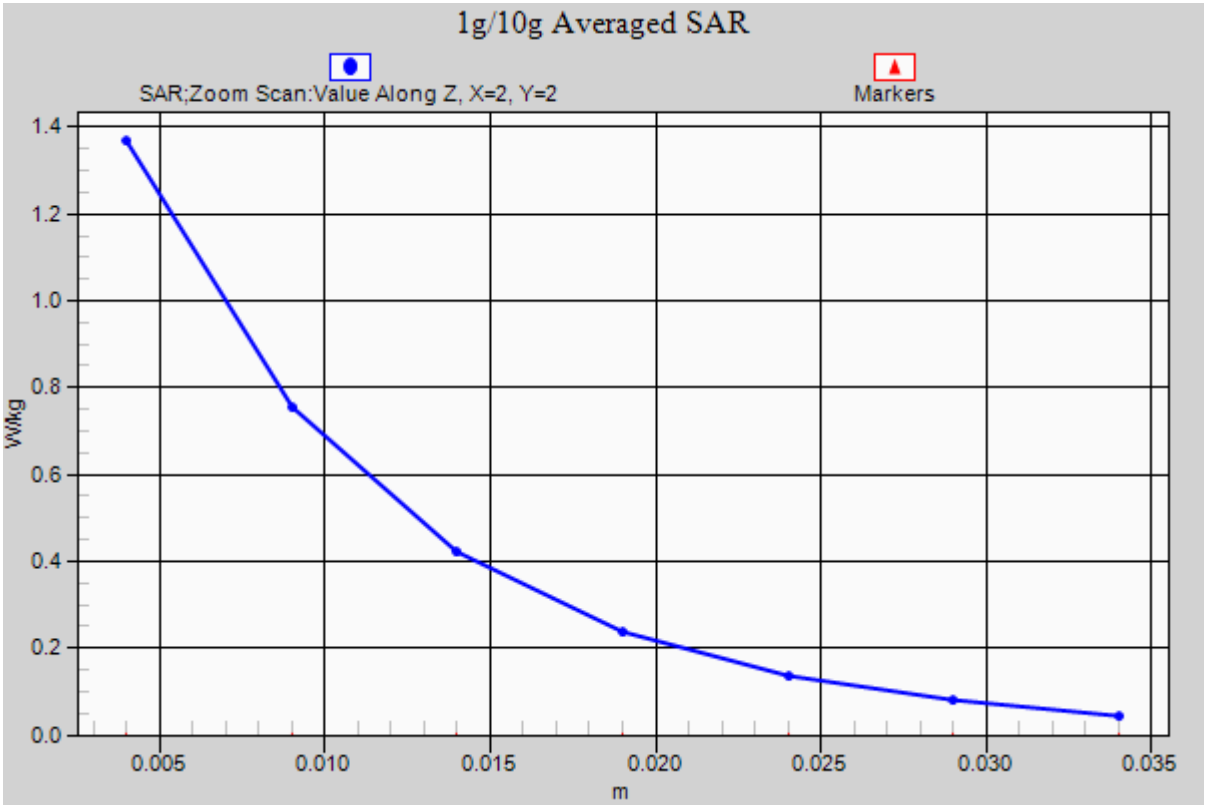
- Probe: ES3DV3 - SN3221; ConvF(4.79, 4.79, 4.79); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

PCS1900 BODY/Back-Low/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.271 V/m; Power Drift = -0.03 dB
Maximum value of SAR (interpolated) = 1.46 W/kg

PCS1900 BODY/Back-Low/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.271 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 2.269 mW/g
SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.679 mW/g
Maximum value of SAR (measured) = 1.37 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015



PCS1900 BODY/Back-Low_ axis scan

Test Laboratory: GCCT Test Date: Oct.26, 2015

PCS1900 BODY/Back-Low

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

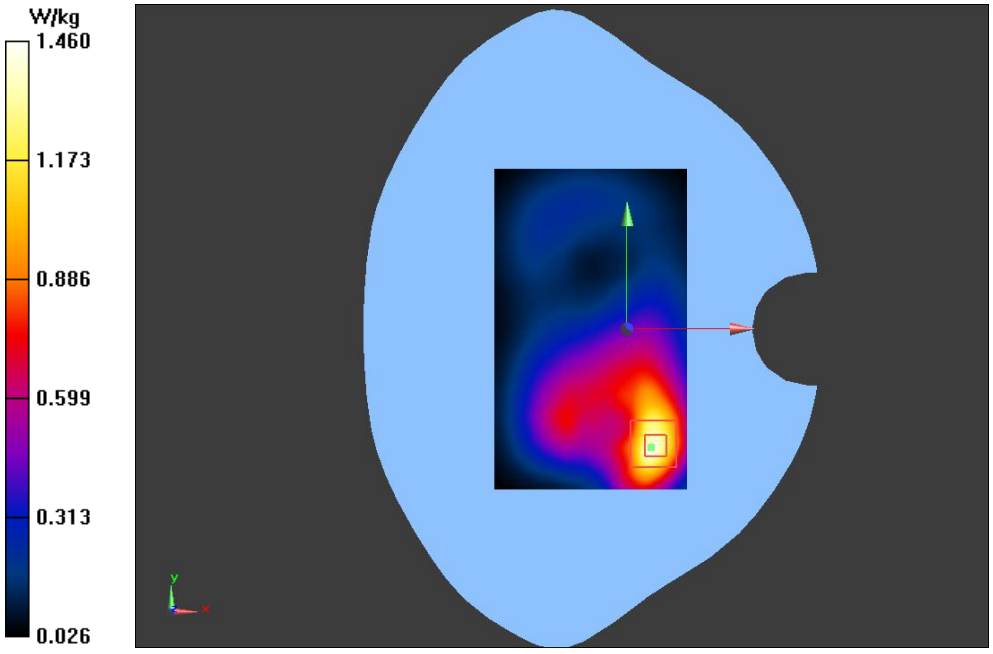
Communication System: GPRS(4slots); Communication System Band: PCS1900; Frequency: 1850.2 MHz;
Communication System PAR: 3.181 dB
Medium parameters used: f = 1850.2 MHz; σ = 1.53 mho/m; ε_r = 51.24; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.79, 4.79, 4.79); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

PCS1900 BODY/Back-Low2/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.264 V/m; Power Drift = -0.13 dB
Maximum value of SAR (interpolated) = 1.45 W/kg

PCS1900 BODY/Back-Low2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.264 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 2.269 mW/g
SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.677 mW/g
Maximum value of SAR (measured) = 1.37 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015

PCS1900 BODY/Front-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

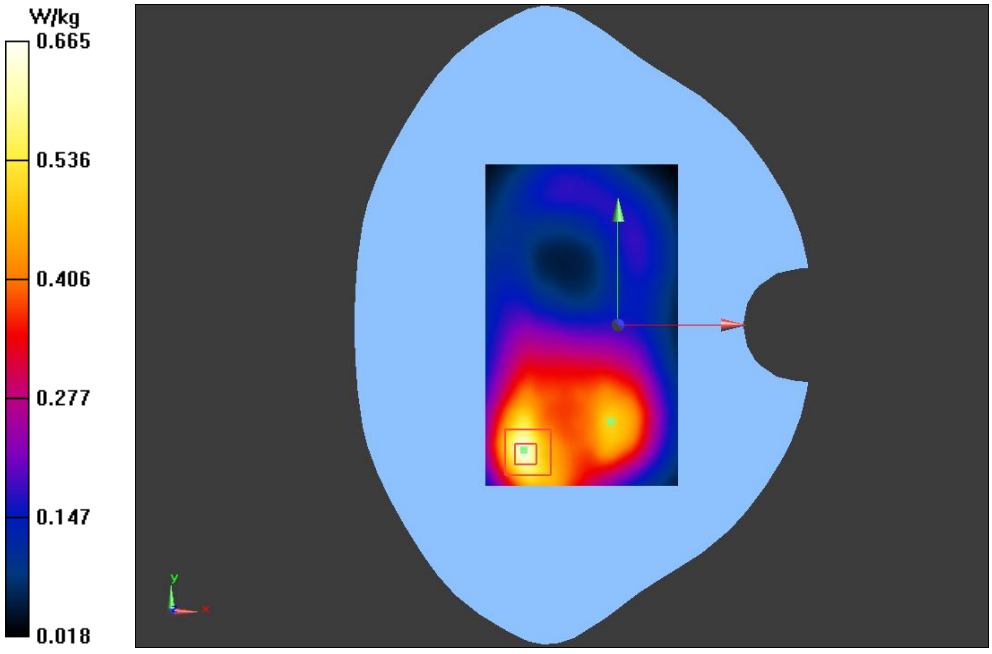
Communication System: GPRS(4slots); Communication System Band: PCS1900; Frequency: 1880 MHz;
Communication System PAR: 3.181 dB
Medium parameters used: f = 1880 MHz; σ = 1.57 mho/m; ε_r = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.79, 4.79, 4.79); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

PCS1900 BODY/Front-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.404 V/m; Power Drift = -0.02 dB
Maximum value of SAR (interpolated) = 0.665 W/kg

PCS1900 BODY/Front-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.404 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.047 mW/g
SAR(1 g) = 0.582 mW/g; SAR(10 g) = 0.325 mW/g
Maximum value of SAR (measured) = 0.637 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015

GPRS1900 Left-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

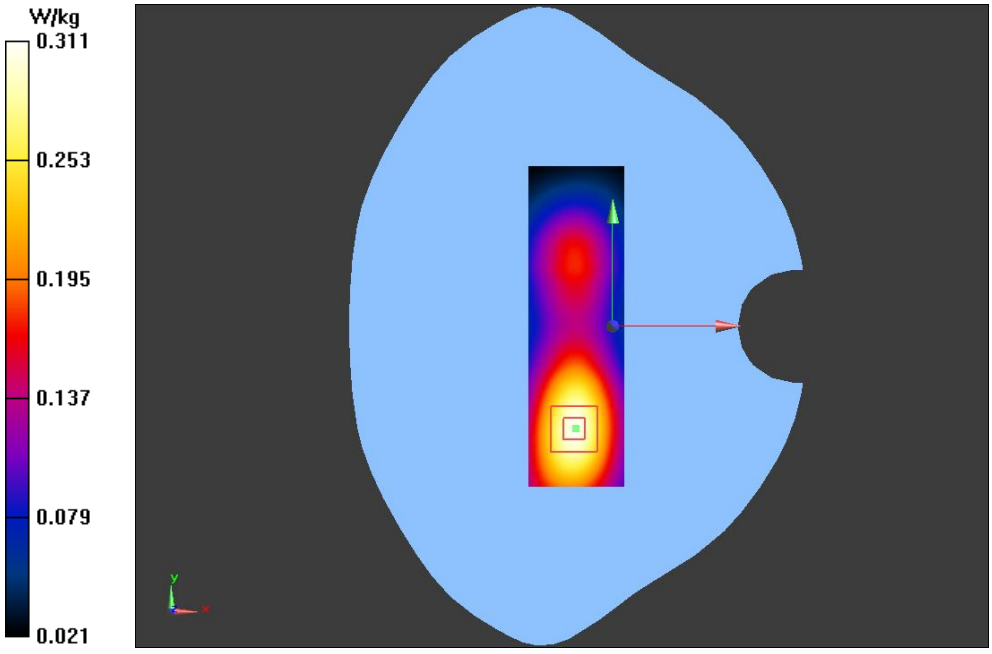
Communication System: GPRS(4slots); Communication System Band: PCS1900; Frequency: 1880 MHz;
Communication System PAR: 3.181 dB
Medium parameters used: f = 1880 MHz; σ = 1.57 mho/m; ε_r = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.79, 4.79, 4.79); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GPRS1900 /Left-Mid/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.640 V/m; Power Drift = -0.01 dB
Maximum value of SAR (interpolated) = 0.311 W/kg

GPRS1900 /Left-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.640 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.485 mW/g
SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.174 mW/g
Maximum value of SAR (measured) = 0.317 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015

GPRS1900 /Right-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

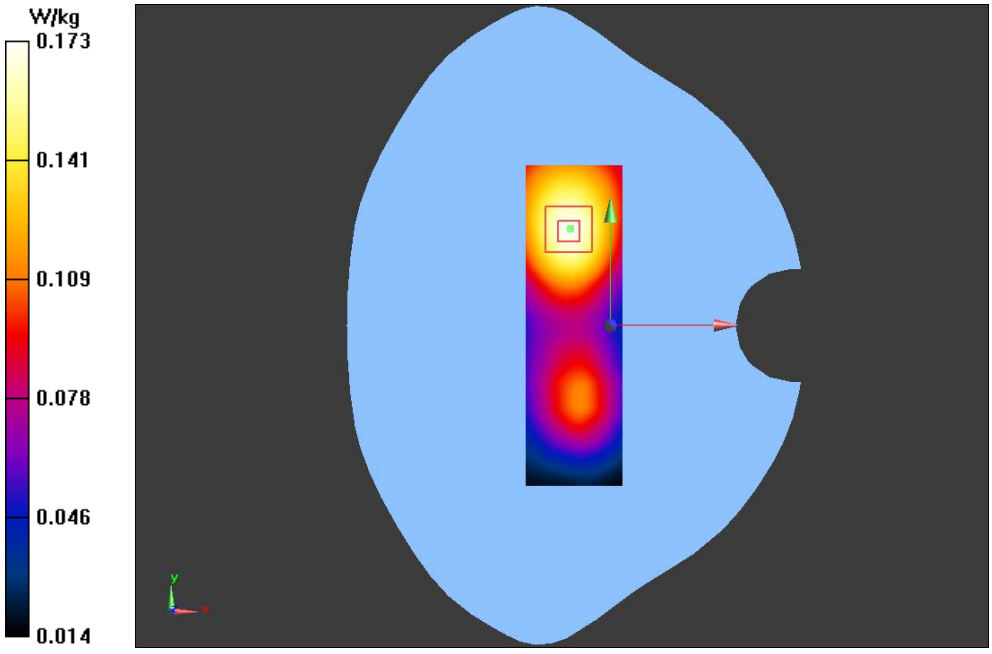
Communication System: GPRS(4slots); Communication System Band: PCS1900; Frequency: 1880 MHz;
Communication System PAR: 3.181 dB
Medium parameters used: f = 1880 MHz; σ = 1.57 mho/m; ε_r = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.79, 4.79, 4.79); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GPRS1900 /Right-Mid/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.111 V/m; Power Drift = -0.14 dB
Maximum value of SAR (interpolated) = 0.173 W/kg

GPRS1900 /Right-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.111 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.264 mW/g
SAR(1 g) = 0.162 mW/g; SAR(10 g) = 0.100 mW/g
Maximum value of SAR (measured) = 0.175 W/kg



Test Laboratory: GCCT Test Date: Oct.26, 2015

GPRS1900 /Bottom-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

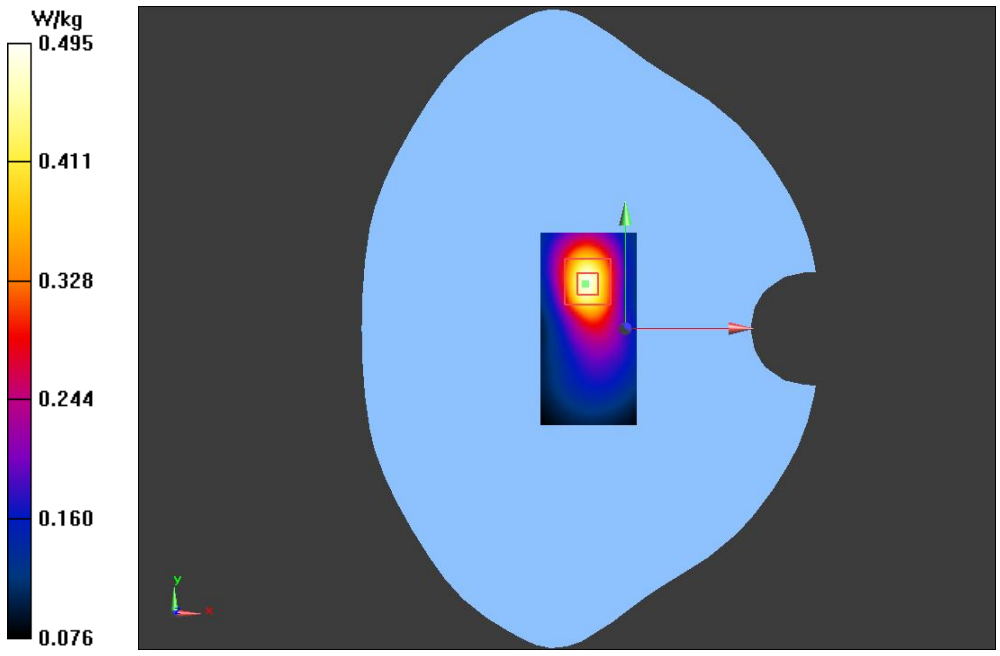
Communication System: GPRS(4slots); Communication System Band: PCS1900; Frequency: 1880 MHz;
Communication System PAR: 3.181 dB
Medium parameters used: f = 1880 MHz; σ = 1.57 mho/m; ε_r = 51.14; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.79, 4.79, 4.79); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GPRS1900 /Bottom-Mid/Area Scan (31x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.301 V/m; Power Drift = -0.13 dB
Maximum value of SAR (interpolated) = 0.495 W/kg

GPRS1900 /Bottom-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.301 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.802 mW/g
SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.236 mW/g
Maximum value of SAR (measured) = 0.490 W/kg



Test Laboratory: GCCT Test Date: Oct.24, 2015

WCDMA BAND V LEFT/CHEEK-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

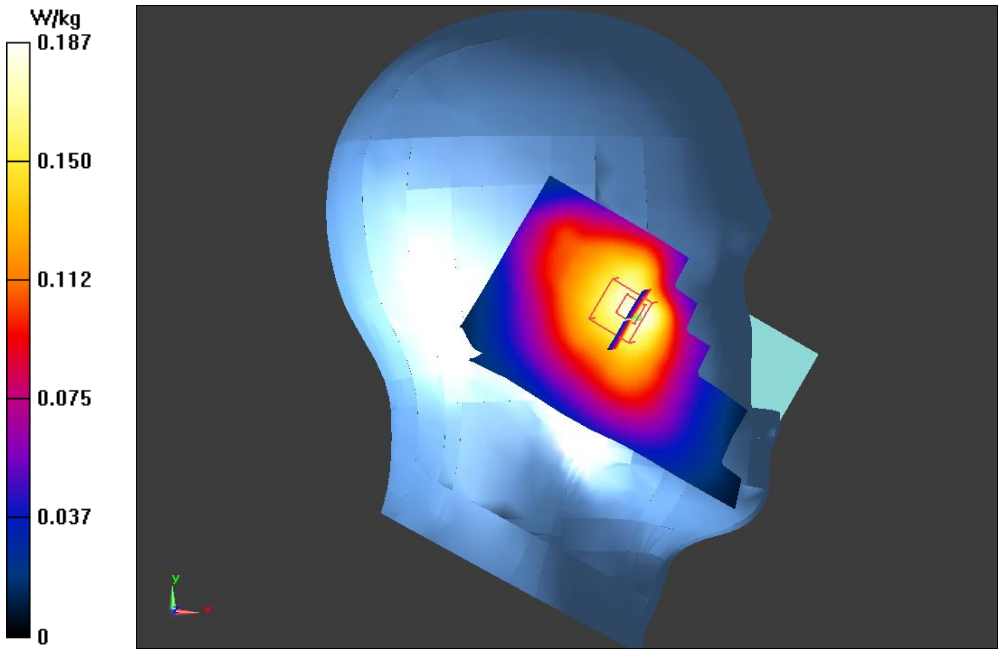
Communication System: UMTS-FDD(WCDMA); Communication System Band: Band 5; Frequency: 836.6 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 mho/m; ε_r = 41.478; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.25, 6.25, 6.25); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

WCDMA BAND V LEFT/CHEEK-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.148 V/m; Power Drift = -0.21 dB
Maximum value of SAR (interpolated) = 0.187 W/kg

WCDMA BAND V LEFT/CHEEK-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.148 V/m; Power Drift = -0.21 dB
Peak SAR (extrapolated) = 0.204 mW/g
SAR(1 g) = 0.169 mW/g; SAR(10 g) = 0.132 mW/g
Maximum value of SAR (measured) = 0.173 W/kg



Test Laboratory: GCCT Test Date: Oct.24, 2015

WCDMA BAND V LEFT/TILT-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

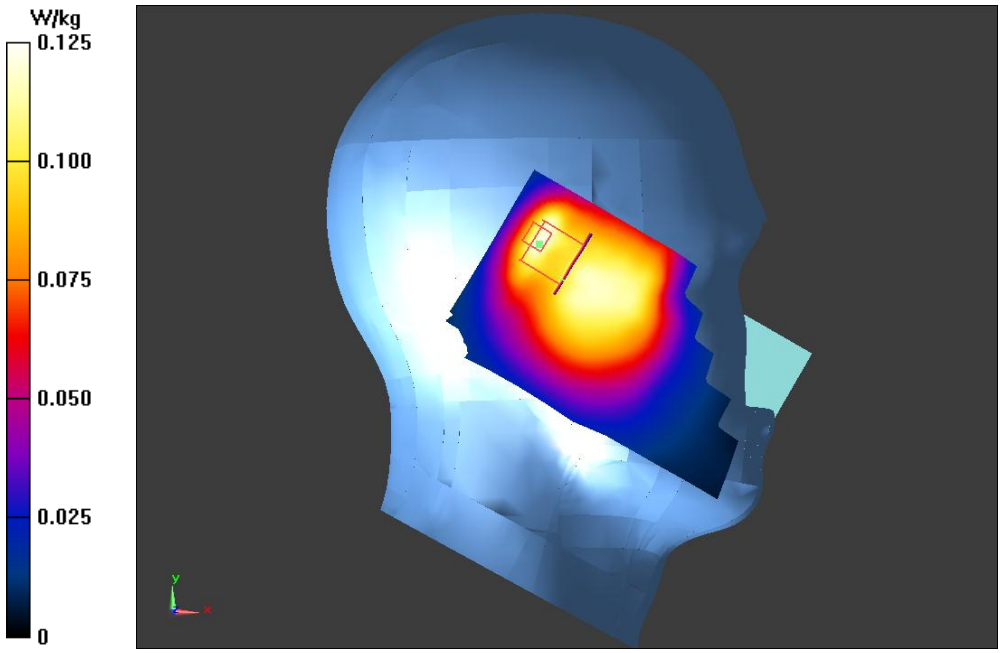
Communication System: UMTS-FDD(WCDMA); Communication System Band: Band 5; Frequency: 836.6 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 mho/m; ε_r = 41.478; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.25, 6.25, 6.25); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

WCDMA BAND V LEFT/TILT-Mid/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.518 V/m; Power Drift = 0.05 dB
Maximum value of SAR (interpolated) = 0.125 W/kg

WCDMA BAND V LEFT/TILT-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.518 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.194 mW/g
SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.074 mW/g
Maximum value of SAR (measured) = 0.105 W/kg



Test Laboratory: GCCT Test Date: Oct.24, 2015

WCDMA BAND V RIGHT/CHEEK-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

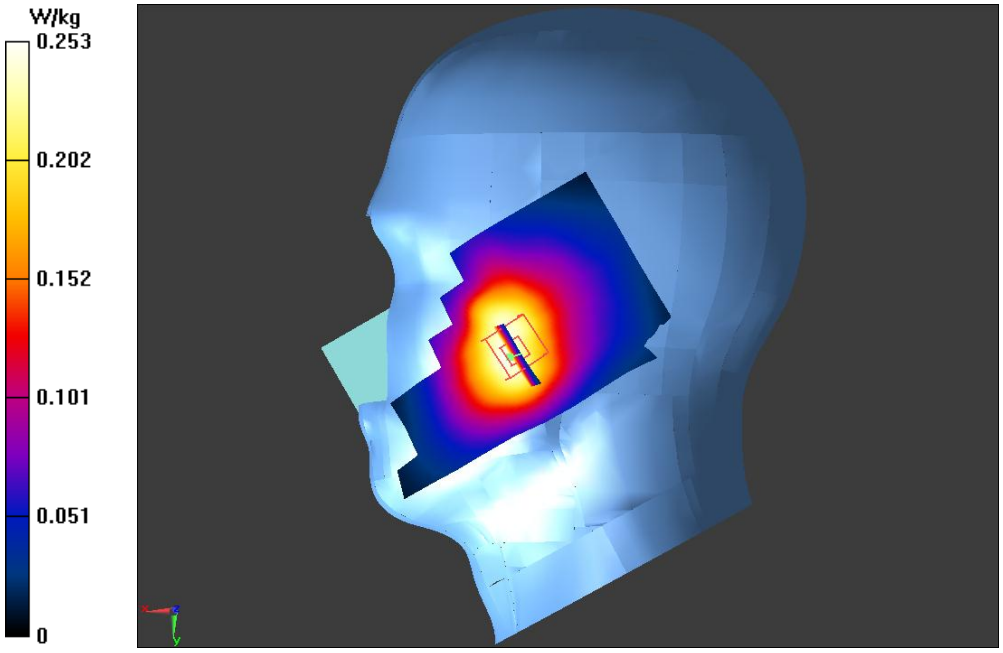
Communication System: UMTS-FDD(WCDMA); Communication System Band: Band 5; Frequency: 836.6 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 mho/m; ε_r = 41.478; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

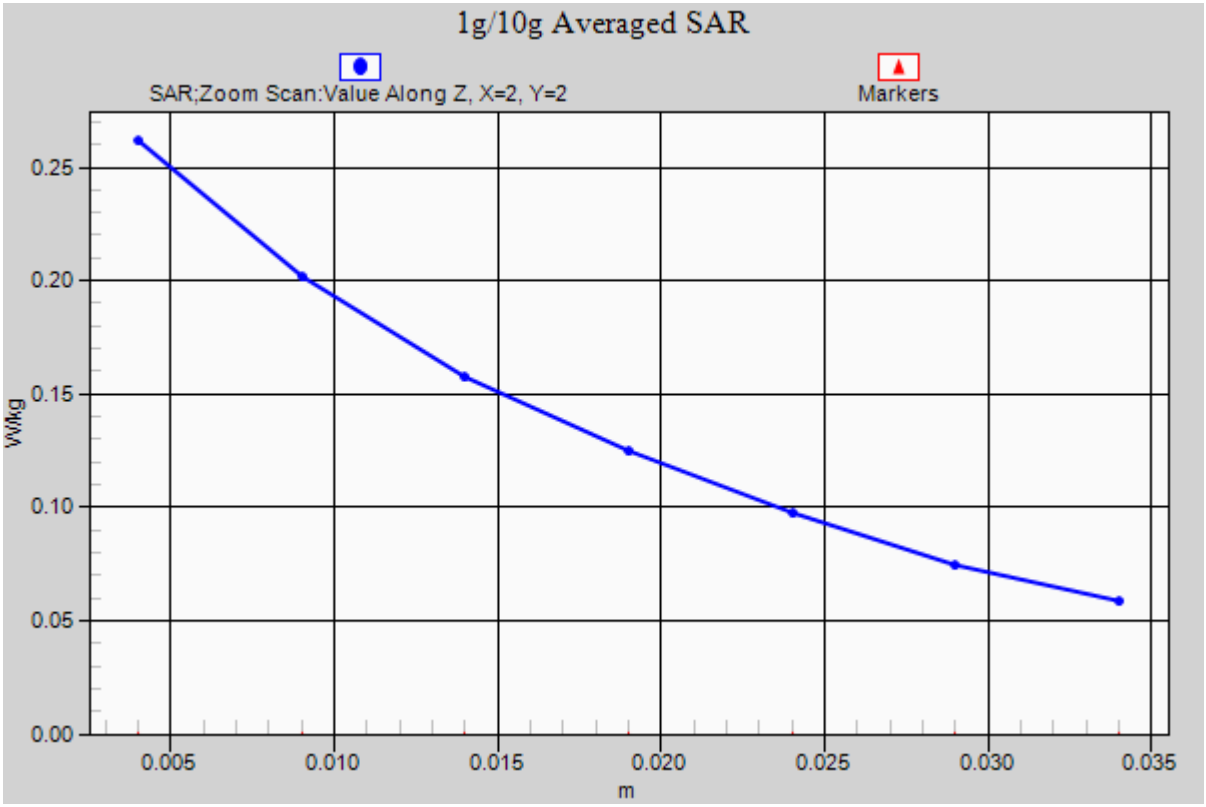
- Probe: ES3DV3 - SN3221; ConvF(6.25, 6.25, 6.25); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

WCDMA BAND V RIGHT/CHEEK-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 7.483 V/m; Power Drift = 0.04 dB
Maximum value of SAR (interpolated) = 0.253 W/kg

WCDMA BAND V RIGHT/CHEEK-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.483 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.328 mW/g
SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.183 mW/g
Maximum value of SAR (measured) = 0.262 W/kg



Test Laboratory: GCCT Test Date: Oct.24, 2015



WCDMA BAND V RIGHT/CHEEK-Mid_ axis scan

Test Laboratory: GCCT Test Date: Oct.24, 2015

WCDMA BAND V RIGHT/TILT-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

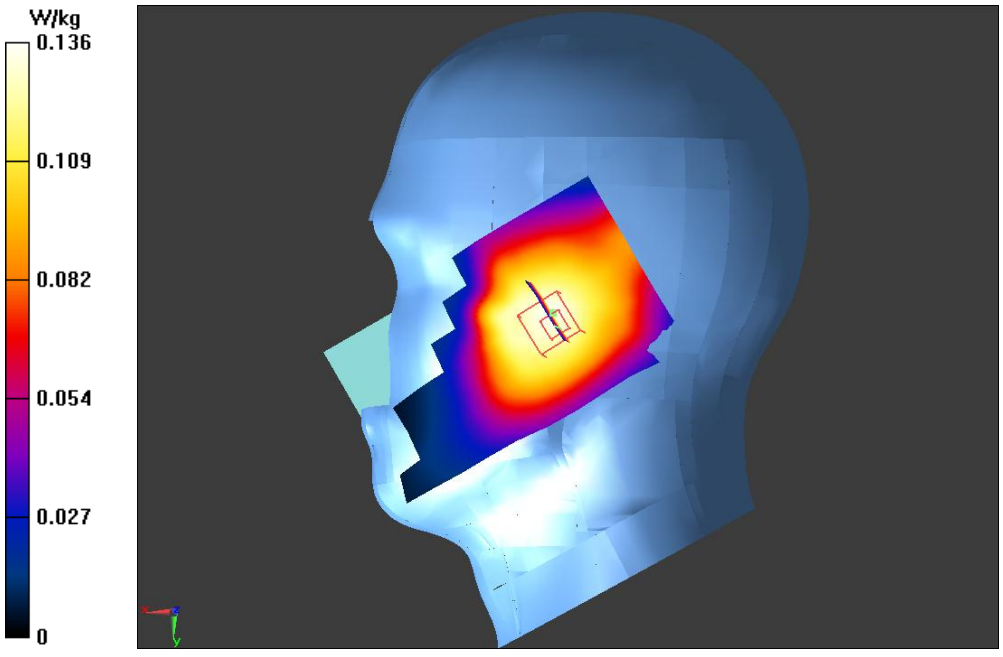
Communication System: UMTS-FDD(WCDMA); Communication System Band: Band 5; Frequency: 836.6 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.89 mho/m; ε_r = 41.478; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.25, 6.25, 6.25); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

WCDMA BAND V RIGHT/TILT-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.777 V/m; Power Drift = -0.12 dB
Maximum value of SAR (interpolated) = 0.136 W/kg

WCDMA BAND V RIGHT/TILT-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.777 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.160 mW/g
SAR(1 g) = 0.133 mW/g; SAR(10 g) = 0.107 mW/g
Maximum value of SAR (measured) = 0.137 W/kg



Test Laboratory: GCCT Test Date: Oct.25, 2015

GSM850 BODY/Back-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

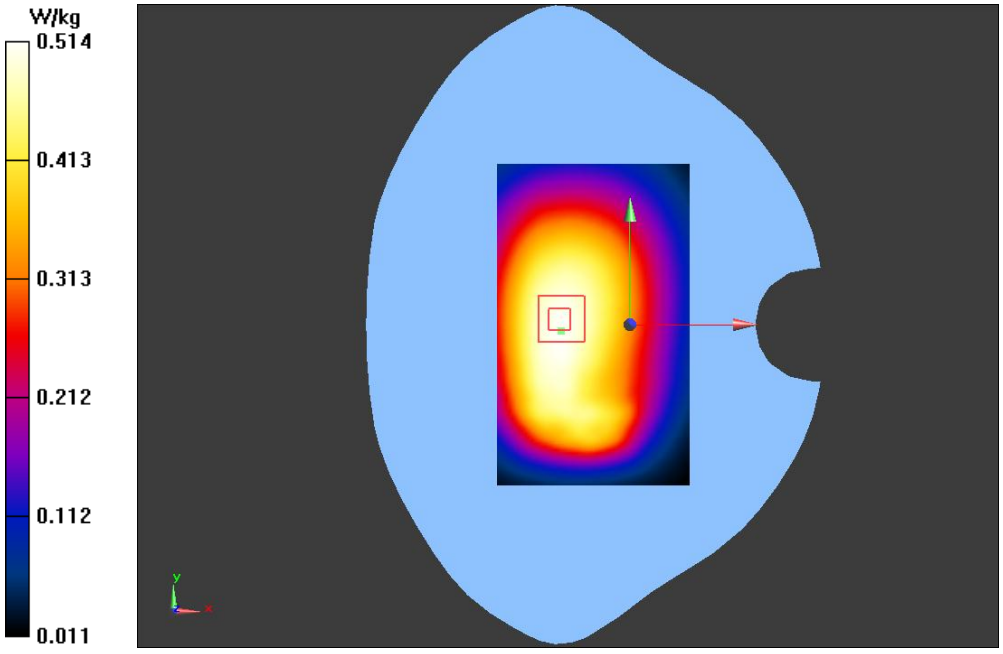
Communication System: UMTS-FDD(WCDMA); Communication System Band: Band 5; Frequency: 836.6 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 mho/m; ε_r = 55.858; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

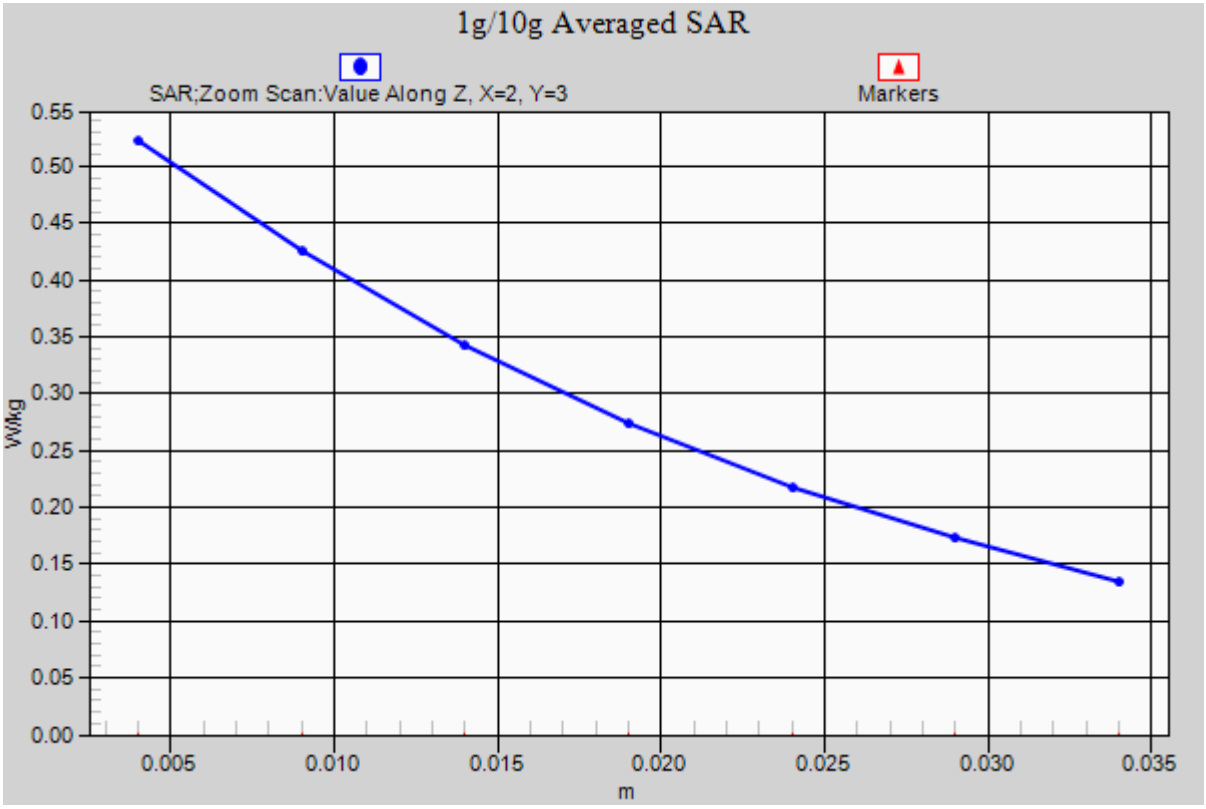
- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 BODY/Back-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.320 V/m; Power Drift = -0.04 dB
Maximum value of SAR (interpolated) = 0.514 W/kg

GSM850 BODY/Back-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.320 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.597 mW/g
SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.391 mW/g
Maximum value of SAR (measured) = 0.522 W/kg



Test Laboratory: GCCT Test Date: Oct.25, 2015



GSM850 BODY/Back-Mid_ axis scan

Test Laboratory: GCCT Test Date: Oct.25, 2015

GSM850 BODY/Front-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

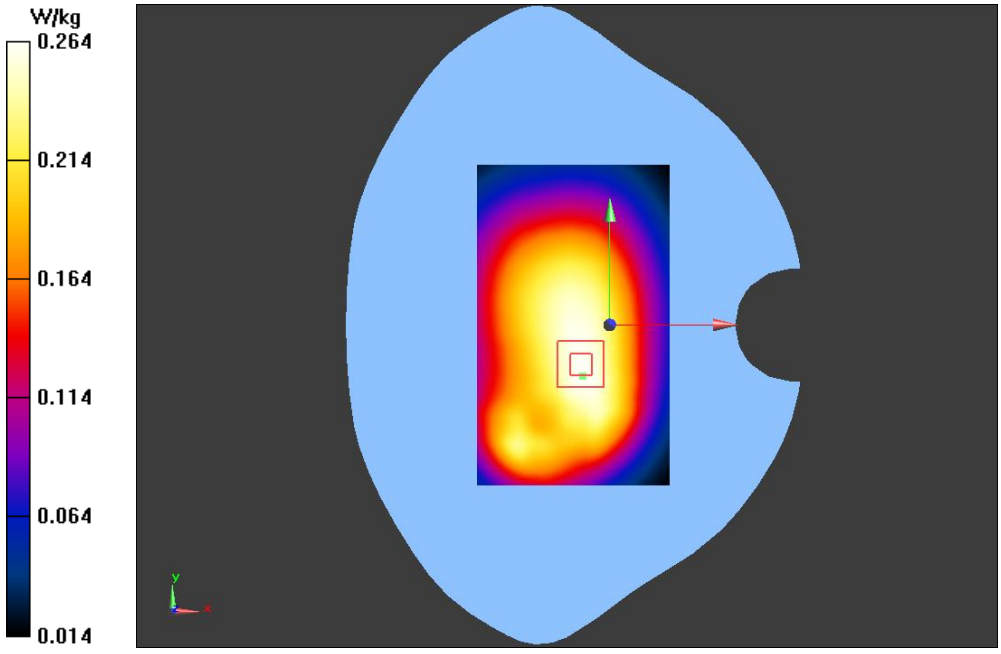
Communication System: UMTS-FDD(WCDMA); Communication System Band: Band 5; Frequency: 836.6 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 mho/m; ε_r = 55.858; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

GSM850 BODY/Front-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.699 V/m; Power Drift = -0.03 dB
Maximum value of SAR (interpolated) = 0.264 W/kg

GSM850 BODY/Front-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.699 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.308 mW/g
SAR(1 g) = 0.251 mW/g; SAR(10 g) = 0.195 mW/g
Maximum value of SAR (measured) = 0.262 W/kg



Test Laboratory: GCCT Test Date: Oct.25, 2015

WCDMA BAND V /Left-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

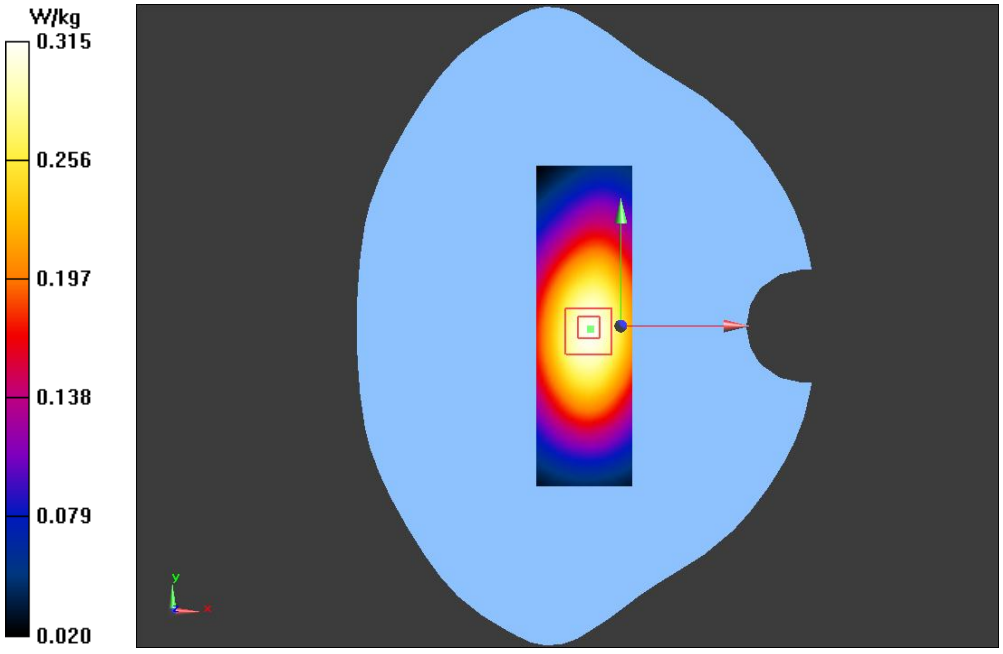
Communication System: UMTS-FDD(WCDMA); Communication System Band: Band 5; Frequency: 836.6 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 mho/m; ε_r = 55.858; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

WCDMA BAND V /Left-Mid/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.581 V/m; Power Drift = -0.15 dB
Maximum value of SAR (interpolated) = 0.315 W/kg

WCDMA BAND V /Left-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.581 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.387 mW/g
SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.216 mW/g
Maximum value of SAR (measured) = 0.317 W/kg



Test Laboratory: GCCT Test Date: Oct.25, 2015

WCDMA BAND V /Right-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

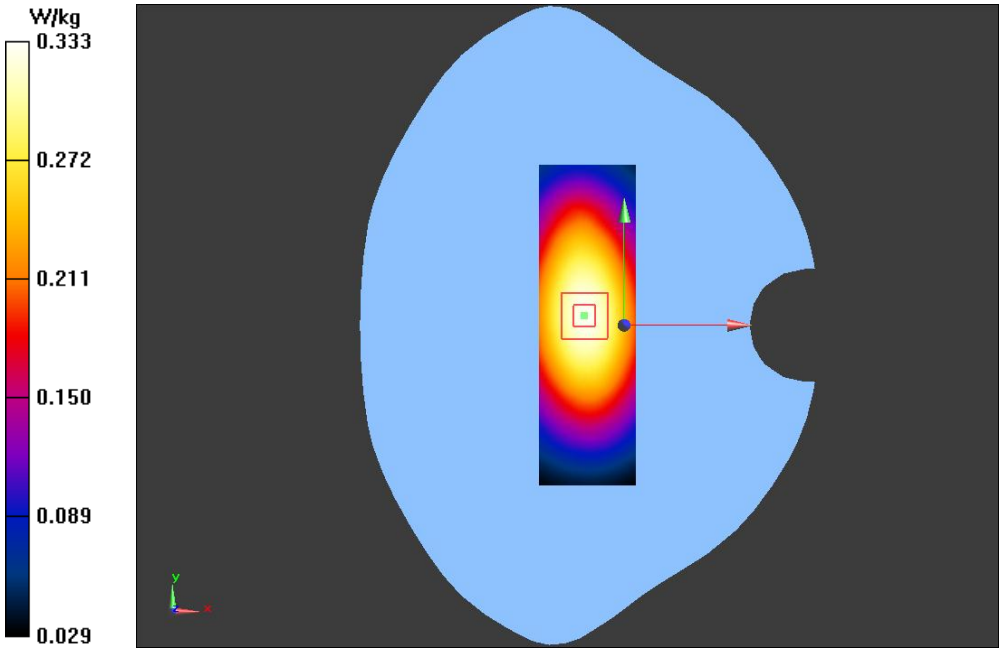
Communication System: UMTS-FDD(WCDMA); Communication System Band: Band 5; Frequency: 836.6 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 mho/m; ε_r = 55.858; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

WCDMA BAND V /Right-Mid/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.059 V/m; Power Drift = -0.08 dB
Maximum value of SAR (interpolated) = 0.333 W/kg

WCDMA BAND V /Right-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.059 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.411 mW/g
SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.232 mW/g
Maximum value of SAR (measured) = 0.337 W/kg



Test Laboratory: GCCT Test Date: Oct.25, 2015

WCDMA BAND V /Bottom-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

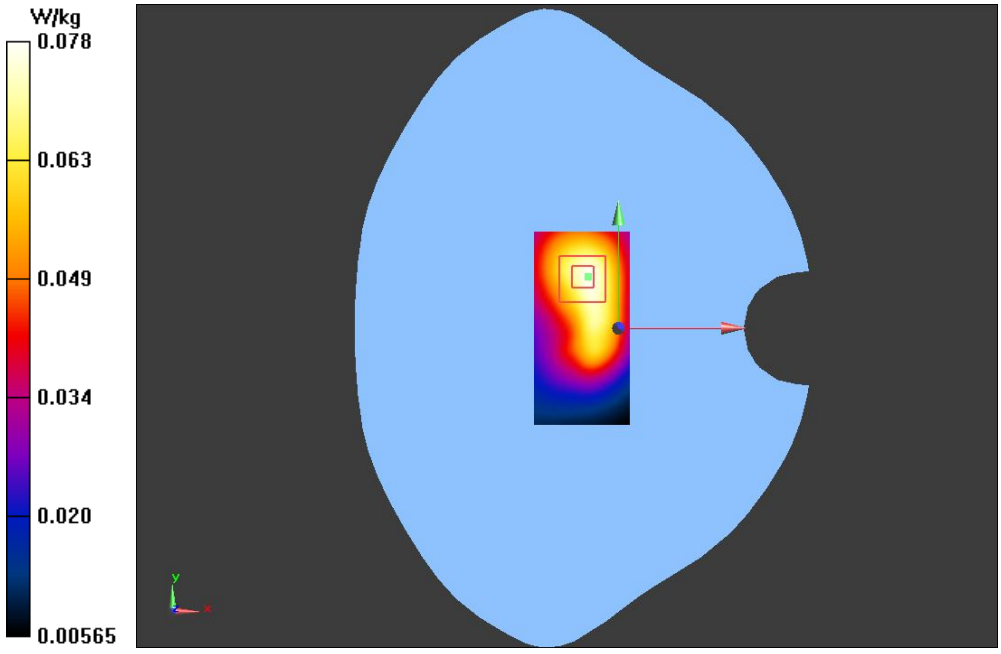
Communication System: UMTS-FDD(WCDMA); Communication System Band: Band 5; Frequency: 836.6 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 mho/m; ε_r = 55.858; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(6.29, 6.29, 6.29); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_2with CRP v4.0; Type: QD000P40CC; Serial: TP:1548
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

WCDMA BAND V /Bottom-Mid/Area Scan (31x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.087 V/m; Power Drift = 0.13 dB
Maximum value of SAR (interpolated) = 0.0775 W/kg

WCDMA BAND V /Bottom-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.087 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.132 mW/g
SAR(1 g) = 0.075 mW/g; SAR(10 g) = 0.046 mW/g
Maximum value of SAR (measured) = 0.0795 W/kg



Test Laboratory: GCCT Test Date: Oct.19, 2015

Wi-Fi 802.11b LEFT/CHEEK-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

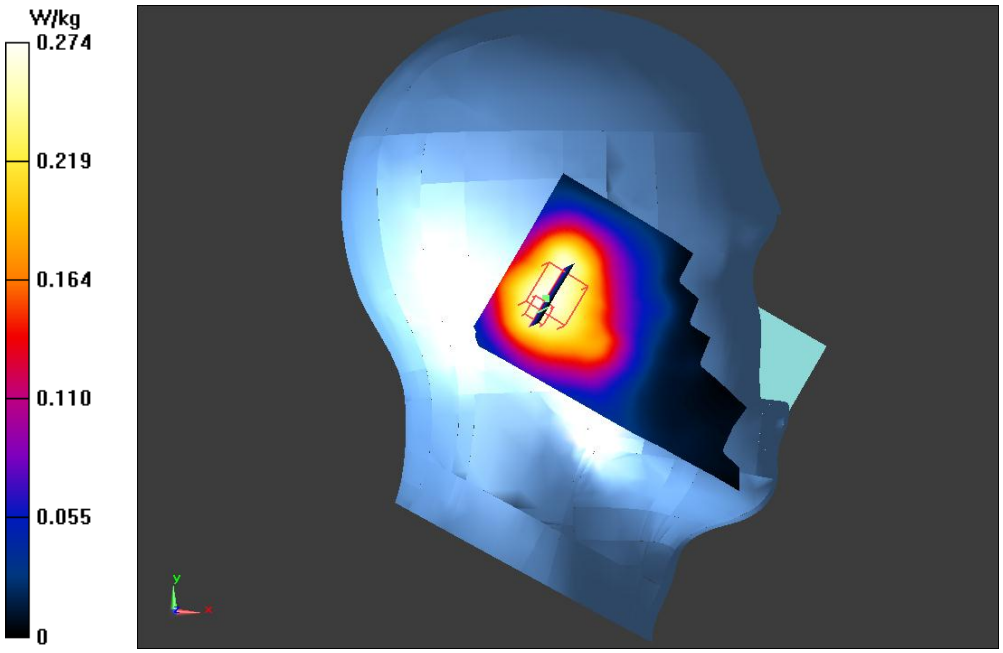
Communication System: 802.11b WiFi 2.4 GHz ; Communication System Band: 2450; Frequency: 2437 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.863 mho/m; ε_r = 39.377; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.5, 4.5, 4.5); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Wi-Fi 802.11b LEFT/CHEEK-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.606 V/m; Power Drift = 0.20 dB
Maximum value of SAR (interpolated) = 0.274 W/kg

Wi-Fi 802.11b LEFT/CHEEK-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.606 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 0.526 mW/g
SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.143 mW/g
Maximum value of SAR (measured) = 0.269 W/kg



Test Laboratory: GCCT Test Date: Oct.19, 2015

Wi-Fi 802.11b LEFT/TILT-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

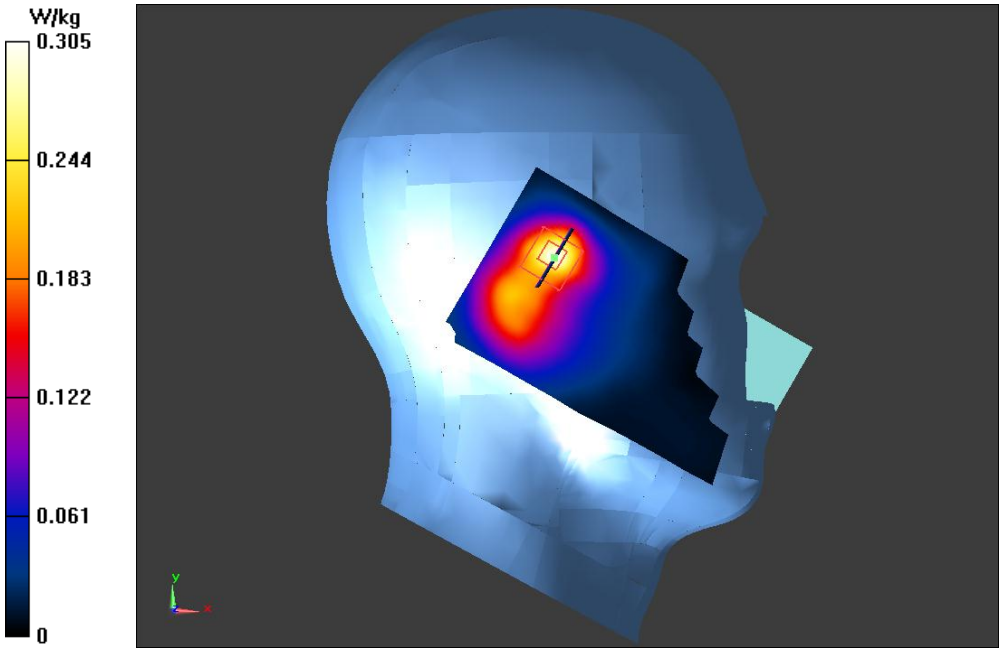
Communication System: 802.11b WiFi 2.4 GHz ; Communication System Band: 2450; Frequency: 2437 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.863 mho/m; ε_r = 39.377; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.5, 4.5, 4.5); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Wi-Fi 802.11b LEFT/TILT-Mid/Area Scan (61x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.363 V/m; Power Drift = 0.06 dB
Maximum value of SAR (interpolated) = 0.305 W/kg

Wi-Fi 802.11b LEFT/TILT-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.363 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.563 mW/g
SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.134 mW/g
Maximum value of SAR (measured) = 0.295 W/kg



Test Laboratory: GCCT Test Date: Oct.19, 2015

Wi-Fi 802.11b RIGHT/CHEEK-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

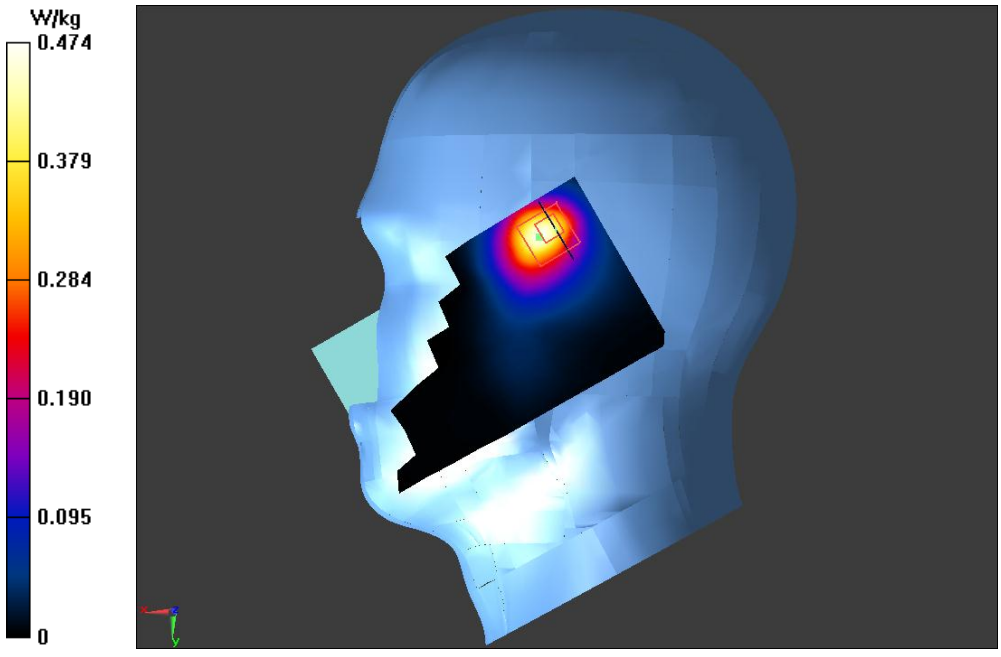
Communication System: 802.11b WiFi 2.4 GHz ; Communication System Band: 2450; Frequency: 2437 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.863 mho/m; ε_r = 39.377; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.5, 4.5, 4.5); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Wi-Fi 802.11b RIGHT/CHEEK-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 6.851 V/m; Power Drift = 0.02 dB
Maximum value of SAR (interpolated) = 0.475 W/kg

Wi-Fi 802.11b RIGHT/CHEEK-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.851 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.068 mW/g
SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.192 mW/g
Maximum value of SAR (measured) = 0.465 W/kg



Test Laboratory: GCCT Test Date: Oct.19, 2015

Wi-Fi 802.11b RIGHT/TILT-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

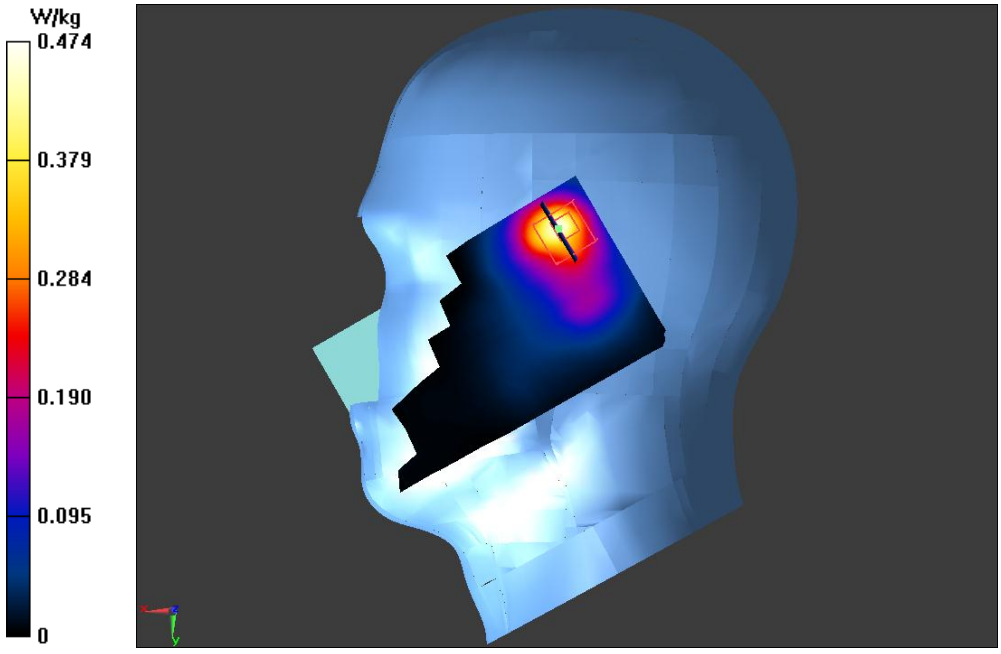
Communication System: 802.11b WiFi 2.4 GHz ; Communication System Band: 2450; Frequency: 2437 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.863 mho/m; ε_r = 39.377; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

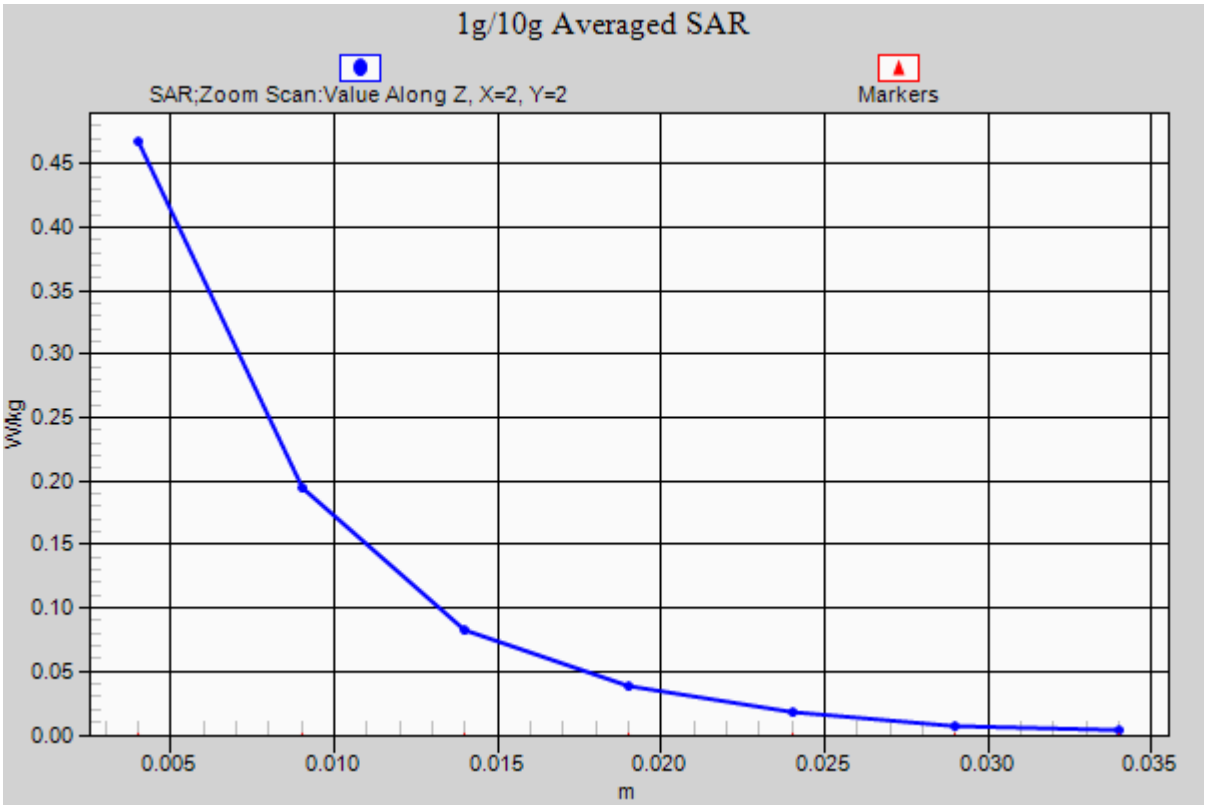
- Probe: ES3DV3 - SN3221; ConvF(4.5, 4.5, 4.5); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Wi-Fi 802.11b RIGHT/TILT-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.959 V/m; Power Drift = -0.01 dB
Maximum value of SAR (interpolated) = 0.474 W/kg

Wi-Fi 802.11b RIGHT/TILT-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.959 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.104 mW/g
SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.197 mW/g
Maximum value of SAR (measured) = 0.467 W/kg



Test Laboratory: GCCT Test Date: Oct.19, 2015



Wi-Fi 802.11b RIGHT/TILT-Mid_ axis scan

Test Laboratory: GCCT Test Date: Oct.19, 2015

Wi-Fi 802.11b BODY/Back-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

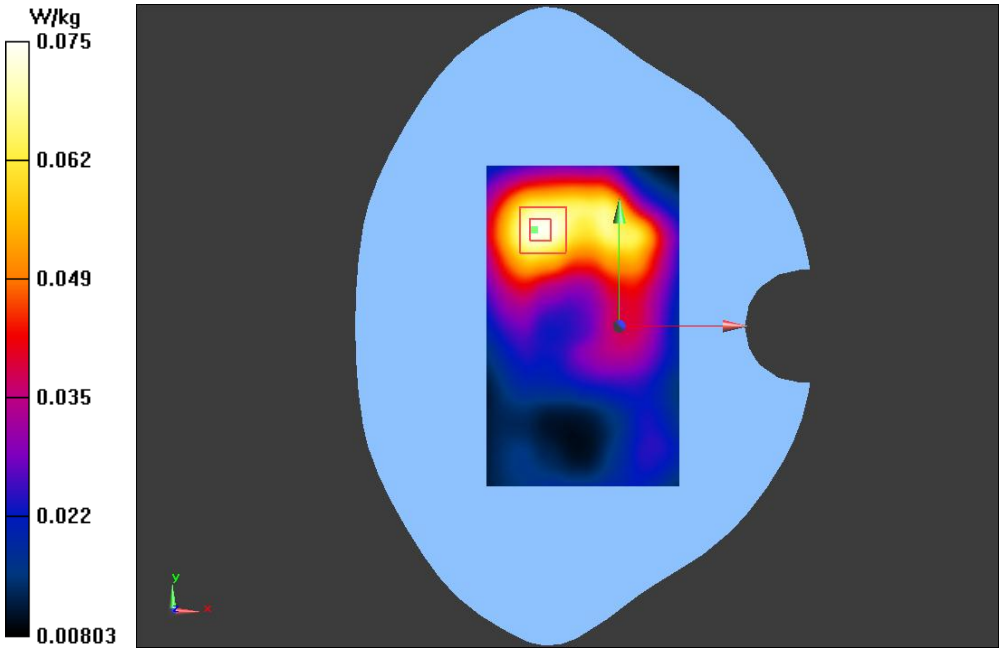
Communication System: 802.11b WiFi 2.4 GHz ; Communication System Band: 2450; Frequency: 2437 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2437 MHz; σ = 2.013 mho/m; ε_r = 50.739; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.49, 4.49, 4.49); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Wi-Fi 802.11b BODY/Back-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 3.678 V/m; Power Drift = -0.20 dB
Maximum value of SAR (interpolated) = 0.0755 W/kg

Wi-Fi 802.11b BODY/Back-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.678 V/m; Power Drift = -0.20 dB
Peak SAR (extrapolated) = 0.139 mW/g
SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.039 mW/g
Maximum value of SAR (measured) = 0.0742 W/kg



Test Laboratory: GCCT Test Date: Oct.19, 2015

Wi-Fi 802.11b BODY/Front-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

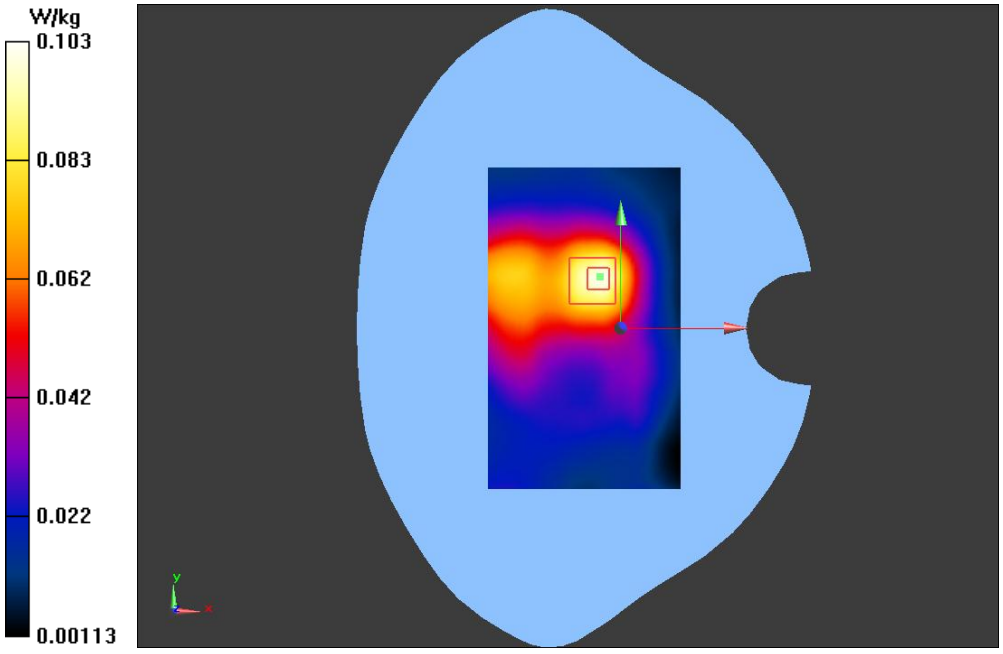
Communication System: 802.11b WiFi 2.4 GHz ; Communication System Band: 2450; Frequency: 2437 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2437 MHz; σ = 2.013 mho/m; ε_r = 50.739; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

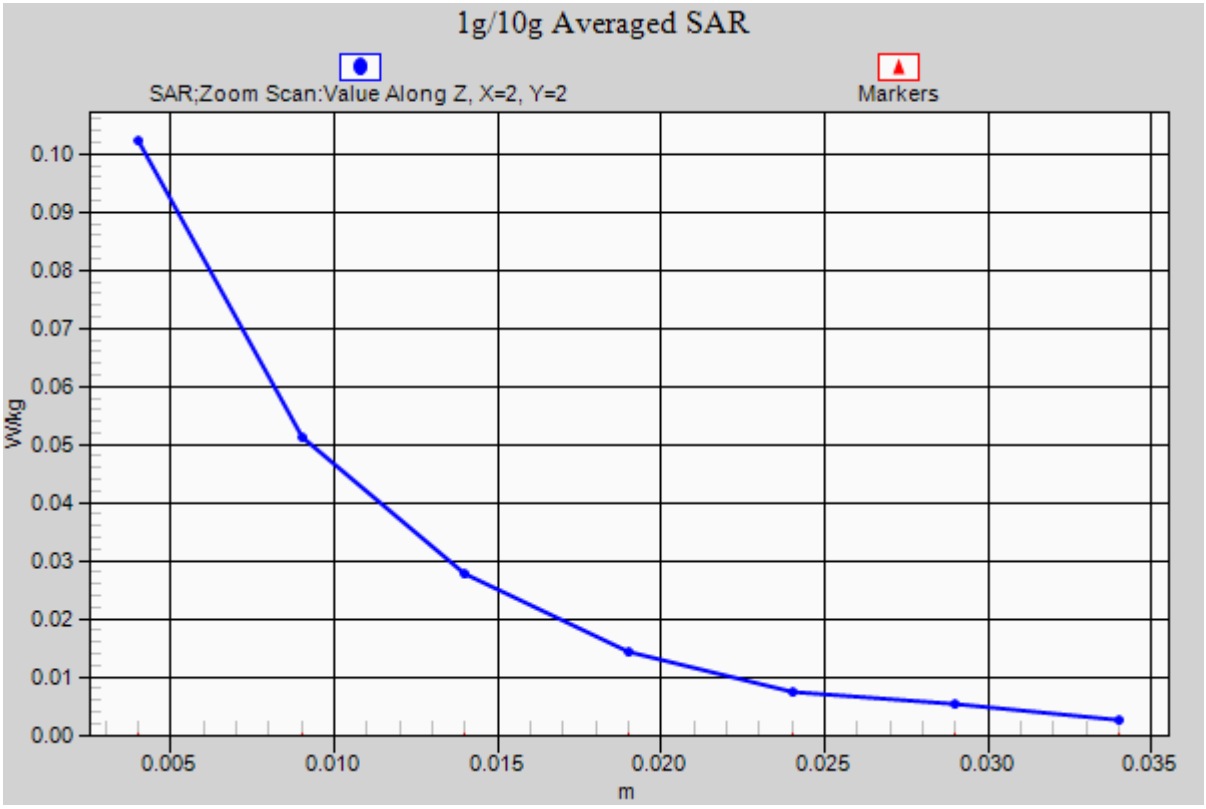
- Probe: ES3DV3 - SN3221; ConvF(4.49, 4.49, 4.49); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Wi-Fi 802.11b BODY/Front-Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.316 V/m; Power Drift = -0.13 dB
Maximum value of SAR (interpolated) = 0.103 W/kg

Wi-Fi 802.11b BODY/Front-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.316 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.192 mW/g
SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.052 mW/g
Maximum value of SAR (measured) = 0.102 W/kg



Test Laboratory: GCCT Test Date: Oct.19, 2015



Wi-Fi 802.11b BODY/Front-Mid_ axis scan

Test Laboratory: GCCT Test Date: Oct.19, 2015

Wi-Fi 802.11b /Left-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

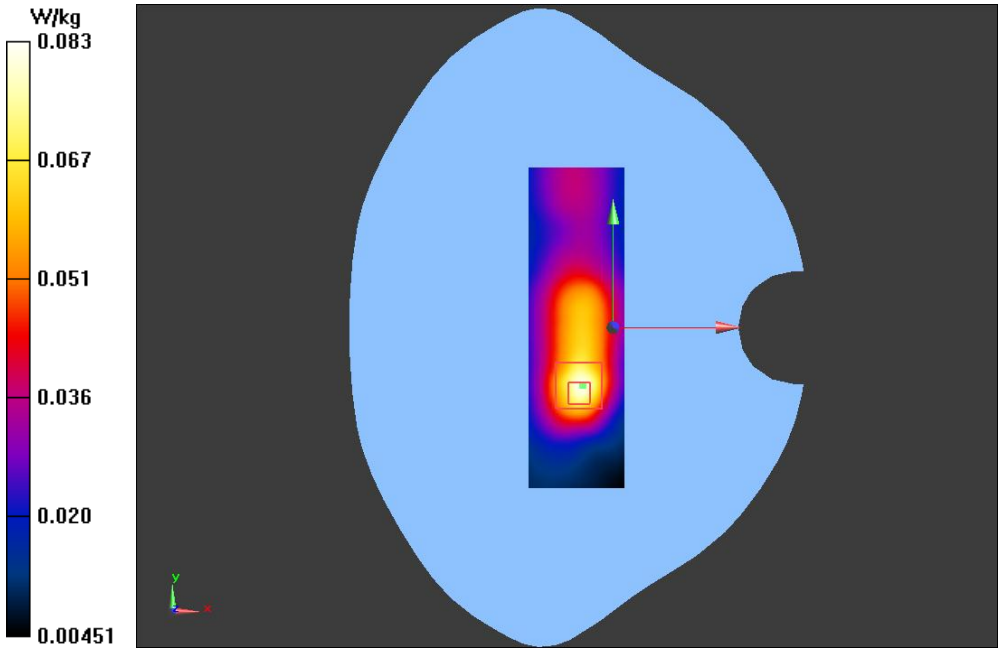
Communication System: 802.11b WiFi 2.4 GHz ; Communication System Band: 2450; Frequency: 2437 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2437 MHz; σ = 2.013 mho/m; ε_r = 50.739; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.49, 4.49, 4.49); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Wi-Fi 802.11b /Left-Mid/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 5.500 V/m; Power Drift = -0.18 dB
Maximum value of SAR (interpolated) = 0.0825 W/kg

Wi-Fi 802.11b L-R/Left-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.500 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.169 mW/g
SAR(1 g) = 0.074 mW/g; SAR(10 g) = 0.038 mW/g
Maximum value of SAR (measured) = 0.0763 W/kg



Test Laboratory: GCCT Test Date: Oct.19, 2015

Wi-Fi 802.11b /Right-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

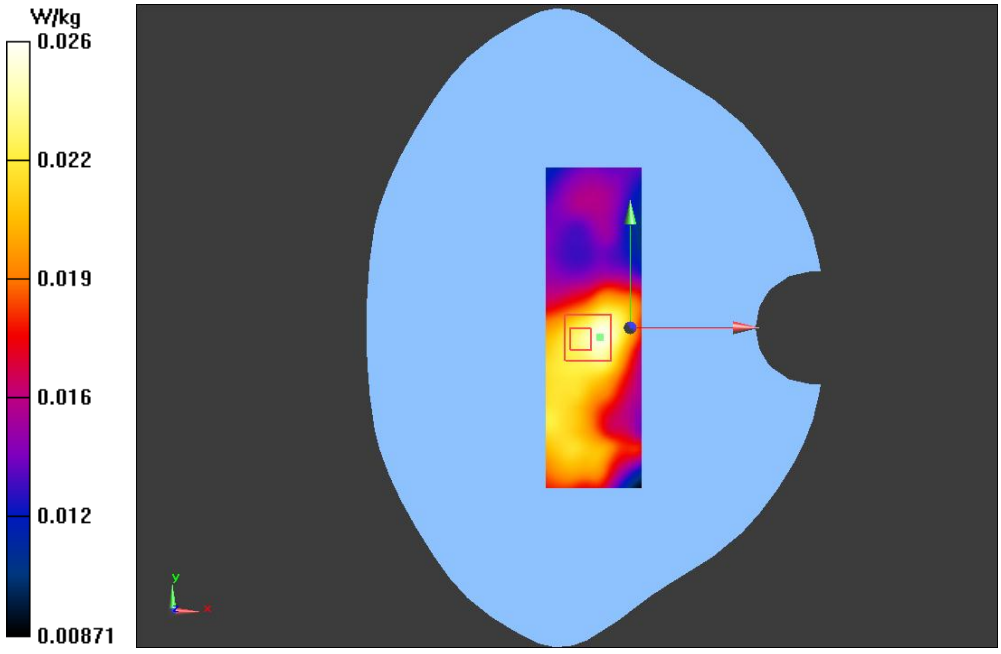
Communication System: 802.11b WiFi 2.4 GHz ; Communication System Band: 2450; Frequency: 2437 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2437 MHz; σ = 2.013 mho/m; ε_r = 50.739; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.49, 4.49, 4.49); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Wi-Fi 802.11b /Right-Mid/Area Scan (31x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 3.148 V/m; Power Drift = -0.00 dB
Maximum value of SAR (interpolated) = 0.0257 W/kg

Wi-Fi 802.11b /Right-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.148 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 0.043 mW/g
SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.014 mW/g
Maximum value of SAR (measured) = 0.0249 W/kg



Test Laboratory: GCCT Test Date: Oct.19, 2015

Wi-Fi 802.11b /Top-Mid

DUT: Mobile Phone; Type: Obi Worldphone SJ1.5

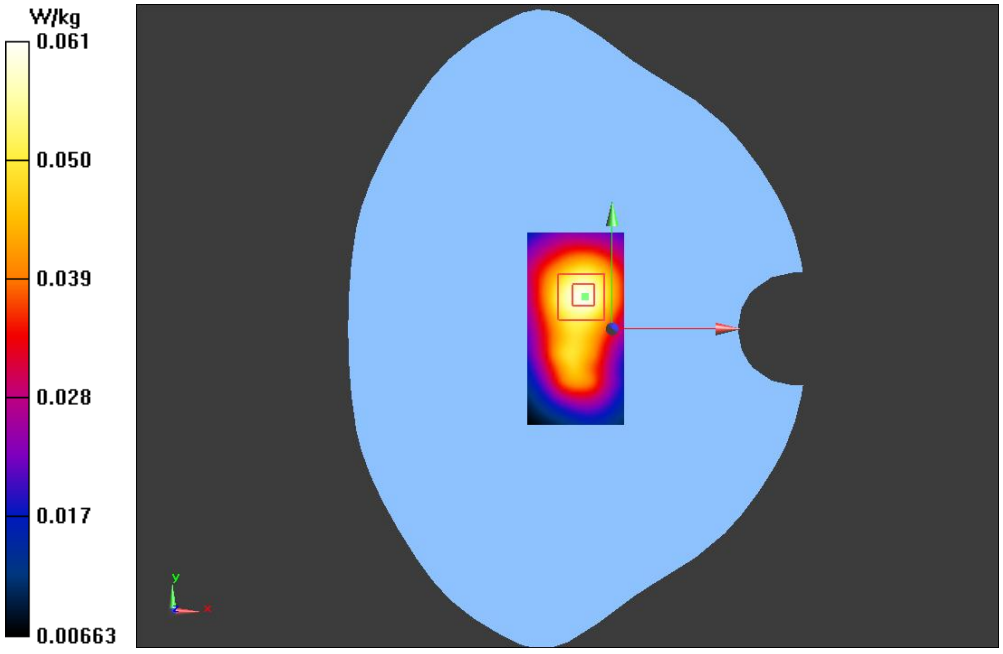
Communication System: 802.11b WiFi 2.4 GHz ; Communication System Band: 2450; Frequency: 2437 MHz;
Communication System PAR: 0 dB
Medium parameters used (interpolated): f = 2437 MHz; σ = 2.013 mho/m; ε_r = 50.739; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ES3DV3 - SN3221; ConvF(4.49, 4.49, 4.49); Calibrated: 1/31/2015;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn893; Calibrated: 1/23/2015
- Phantom: SAM_1 with CRP v4.0; Type: QD000P40CC; Serial: TP:1586
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Wi-Fi 802.11b /Top-Mid/Area Scan (31x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 4.882 V/m; Power Drift = -0.04 dB
Maximum value of SAR (interpolated) = 0.0609 W/kg

Wi-Fi 802.11b /Top-Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.882 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.124 mW/g
SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.031 mW/g
Maximum value of SAR (measured) = 0.0603 W/kg



ANNEX D: Probe Calibration Report

In Collaboration with
CALIBRATION LABORATORY
Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com Http://www.chinattl.cn

CALIBRATION
No. L0570

Client GCCT Certificate No: Z15-97014

CALIBRATION CERTIFICATE

Object ES3DV3 - SN:3221

Calibration Procedure(s) FD-Z11-2-004-01
Calibration Procedures for Dosimetric E-field Probes

Calibration date: January 31, 2015

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)℃ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	101919	01-Jul-14 (CTTL, No.J14X02146)	Jun-15
Power sensor NRP-Z91	101547	01-Jul-14 (CTTL, No.J14X02146)	Jun-15
Power sensor NRP-Z91	101548	01-Jul-14 (CTTL, No.J14X02146)	Jun-15
Reference10dBAttenuator	18N50W-10dB	13-Mar-14(TMC,No.JZ14-1103)	Mar-16
Reference20dBAttenuator	18N50W-20dB	13-Mar-14(TMC,No.JZ14-1104)	Mar-16
Reference Probe EX3DV4	SN 3617	28-Aug-14(SPEAG,No.EX3-3617_Aug14)	Aug-15
DAE4	SN 777	17-Sep-14 (SPEAG, DAE4-777_Sep14)	Sep -15
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
SignalGeneratorMG3700A	6201052605	01-Jul-14 (CTTL, No.J14X02145)	Jun-15
Network Analyzer E5071C	MY46110673	15-Feb-14 (TMC, No.JZ14-781)	Feb-15

	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	
Reviewed by:	Qi Dianyuan	SAR Project Leader	
Approved by:	Lu Bingsong	Deputy Director of the laboratory	

Issued: February 02, 2015

In Collaboration with
s p e a g
CALIBRATION LABORATORY
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E-mail: cttl@chinattl.com Http://www.chinattl.cn

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A,B,C,D	modulation dependent linearization parameters
Polarization Φ	Φ rotation around probe axis
Polarization θ	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i θ=0 is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization θ=0 (f≤900MHz in TEM-cell; f>1800MHz: waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E^2-field uncertainty inside TSL (see below ConvF).
- *NORM(f)x,y,z = NORMx,y,z* frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- *Ax,y,z; Bx,y,z; Cx,y,z;VRx,y,z:*A,B,C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from±50MHz to±100MHz.
- *Spherical isotropy (3D deviation from isotropy):* in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset:* The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle:* The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

In Collaboration with
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E-mail: cttl@chinattl.com Http://www.chinattl.cn

Probe ES3DV3

SN: 3221

Calibrated: January 31, 2015

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

In Collaboration with
CALIBRATION LABORATORY
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E-mail: cttl@chinattl.com Http://www.chinattl.cn

DASY/EASY – Parameters of Probe: ES3DV3 - SN: 3221

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm(μV/(V/m)^2)^A	1.08	1.39	1.06	±10.8%
DCP(mV)^B	103.1	100.5	103.7	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	261.1	±2.6%
		Y	0.0	0.0	1.0		292.6	
		Z	0.0	0.0	1.0		262.2	

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

^{A} The uncertainties of Norm X, Y, Z do not affect the E^2-field uncertainty inside TSL (see Page 5 and Page 6).
^{B} Numerical linearization parameter: uncertainty not required.
^{E} Uncertainly is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.