

TEST REPORT

Test Report No.: 1-1954-07-03/10-A



Testing Laboratory

CETECOM ICT Services GmbH
 Untertürkheimer Straße 6 – 10
 66117 Saarbrücken/Germany
 Phone: + 49 681 5 98 - 0
 Fax: + 49 681 5 98 - 9075
 Internet: <http://www.cetecom-ict.de>
 e-mail: info@ict.cetecom.de

Accredited Test Laboratory:
 The test laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025

DAR registration number: DGA-PL-176/94-D1

Applicant

Sony Ericsson Mobile Communications AB
 Nya Vattentornet
 22188 Lund/Sweden

Phone: +46-46-19-3000

Contact: Johan Wedin
 e-mail: johan.wedin@sonyericsson.com
 Phone: +46 (0) 707 19 57 36
 Fax: +46 (0) 46 19 32 95

Manufacturer

Sony Ericsson Mobile Communications AB
 Nya Vattentornet
 22188 Lund/Sweden


Test Standard/s

IEEE 1528-2003	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
OET Bulletin 65 Supplement C	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields
RSS-102 Issue 4	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item:	Mobile Phone
Device type:	portable device
Model name:	AAD-3880070-BV
S/N serial number:	BX901AZ6MK / BX901AZ6NK
FCC-ID:	PY7A3880070
IC:	4170B-A3880070
IMEI-Number:	00440214-025502-1 / 00440214-025538-5 (for WLAN)
Hardware status:	AP2.1
Software status:	R2BA028 / ATP (w1005.3_AP2.1_3)
Frequency:	see technical details
Antenna:	integrated antenna
Battery option:	Li-Polymer 3.7V / 1200mAh
Accessories:	stereo headset
Test sample status:	identical prototype
Exposure category:	general population / uncontrolled environment



Test performed:

Test Report authorised:

2010-03-22 Oleksandr Hnatovskiy

2010-06-17 Thomas Vogler

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2 General information

2.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM ICT Services GmbH.

2.2 Application details

Date of receipt of order:	2010-02-10
Date of receipt of test item:	2010-03-03
Start of test:	2010-03-04
End of test:	2010-03-12
Person(s) present during the test:	

2.3 Statement of compliance

The SAR values found for the AAD-3880070-BV Mobile Phone are below the maximum recommended levels of 1.6 W/Kg as averaged over any 1 g tissue according to the FCC rule §2.1093, the ANSI/IEEE C 95.1:1999, the NCRP Report Number 86 for uncontrolled environment, according to the Health Canada's Safety Code 6 and the Industry Canada Radio Standards Specification RSS-102 for General Population/Uncontrolled exposure.

For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions the handset a minimum of 15 mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

2.4 Technical details

Band tested for this SAR test report	Technology	Frequency band	Lowest transmit frequency/MHz	Highest transmit frequency/MHz	Lowest receive Frequency/MHz	Highest receive Frequency/MHz	Kind of modulation	Power Class	Tested power control level	GPRS/EGPRS mobile station class	GPRS/EGPRS multislots class	(E)GPRS voice mode or DTM	Test channel low	Test channel middle	Test channel high	Maximum output power/dBm)*
<input type="checkbox"/>	GSM	GSM	880.2	914.8	925.2	959.8	GMSK 8-PSK	4 E2	5	B	10	no	975	37	124	--
<input type="checkbox"/>	GSM	DCS	1710.2	1784.8	1805.2	1879.8	GMSK 8-PSK	1 E2	0	B	10	no	512	698	885	--
<input checked="" type="checkbox"/>	GSM	cellular	824.2	848.8	869.2	893.8	GMSK 8-PSK	4 E2	5	B	10	no	128	190	251	33.3
<input checked="" type="checkbox"/>	GSM	PCS	1850.2	1909.8	1930.2	1989.8	GMSK 8-PSK	1 E2	0	B	10	no	512	661	810	31.3
<input type="checkbox"/>	UMTS	FDD I	1922.4	1977.6	2112.4	2167.6	QPSK	3	max	--	--	--	9612	9750	9888	--
<input checked="" type="checkbox"/>	UMTS	FDD II	1852.4	1907.6	1982.4	1987.6	QPSK	3	max	--	--	--	9262	9400	9538	24.56
<input checked="" type="checkbox"/>	UMTS	FDD V	826.4	846.6	871.4	891.6	QPSK	3	max	--	--	--	4132	4182	4233	24.93
<input type="checkbox"/>	WLAN	ISM	2412	2472	2412	2472	CCK OFDM	--	max	--	--	--	1	7	13	--
<input checked="" type="checkbox"/>	WLAN US	ISM	2412	2462	2412	2462	CCK OFDM	--	max	--	--	--	1	6	11	17.9
<input type="checkbox"/>	BT	ISM	2412	2462	2412	2462	GFSK	3	max	--	--	--	0	39	78	8.5

)*: slotted peak power for GSM, averaged max. RMS power for UMTS, WLAN and BT.

3 Test standard/s:

Test Standard	Version	Test Standard Description
IEEE 1528-2003	2003-04	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
OET Bulletin 65 Supplement C	1997-01 2001-01	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields
RSS-102 Issue 4	2010-03	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
Canada's Safety Code No. 6	99-EHD-237	Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz
IEEE Std. C95-3	1991	Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave
IEEE Std. C95-1	1999	Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields

3.1 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Table 1: RF exposure limits

The limit applied in this test report is shown in bold letters

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

4 Summary of Measurement Results

<input checked="" type="checkbox"/>	No deviations from the technical specifications ascertained
<input type="checkbox"/>	Deviations from the technical specifications ascertained

5 Test Environment

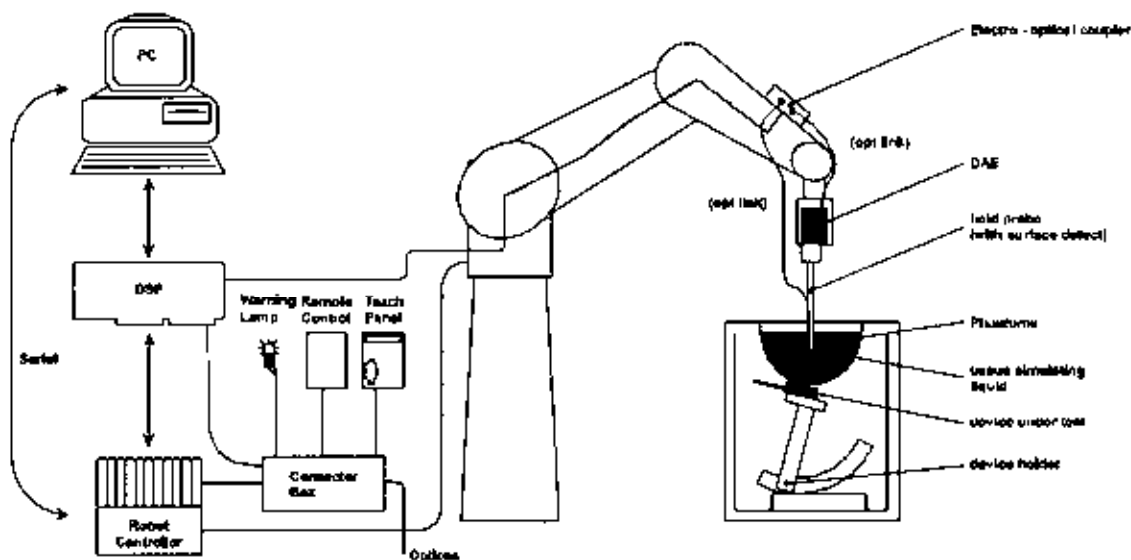
Ambient temperature:	20 – 24 °C
Tissue Simulating liquid:	20 – 24 °C
Relative humidity content:	40 – 50 %
Air pressure:	not relevant for this kind of testing
Power supply:	230 V / 50 Hz

Exact temperature values for each test are shown in the table(s) under 2.5. and/or on the measurement plots.

6 Test Set-up

6.1 Measurement system

6.1.1 System Description



- The DAS4 system for performing compliance tests consists of the following items:
- A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- 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.
- A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- A unit to operate the optical surface detector which is connected to the EOC.
- The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DAS4 measurement server.
- The DAS4 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows 2000
- DAS4 software and SEMCAD data evaluation software.
- Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
- The generic twin phantom enabling the testing of left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- System validation dipoles allowing to validate the proper functioning of the system.

6.1.2 Test environment

The DASY4 measurement system is placed at the head end of a room with dimensions: 5 x 2.5 x 3 m³, the SAM phantom is placed in a distance of 75 cm from the side walls and 1.1m from the rear wall. Above the test system a 1.5 x 1.5 m² array of pyramid absorbers is installed to reduce reflections from the ceiling.

Picture 1 of the photo documentation shows a complete view of the test environment.

The system allows the measurement of SAR values larger than 0.005 mW/g.

6.1.3 Probe description

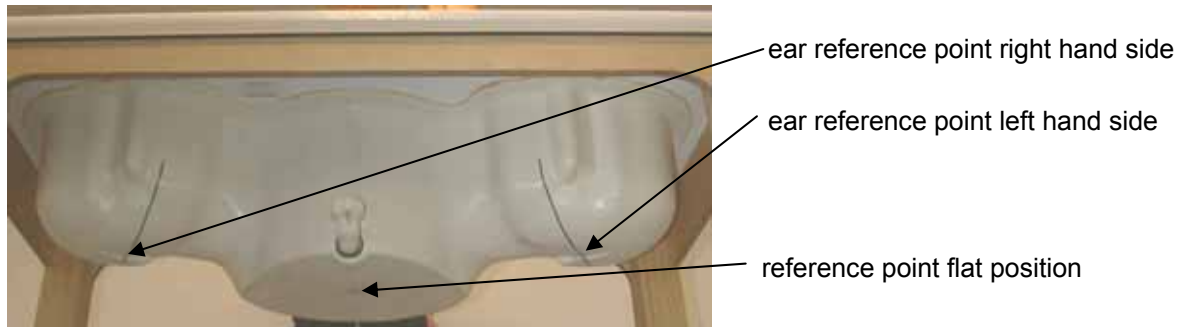
Isotropic E-Field Probe ET3DV6 for Dosimetric Measurements

Technical data according to manufacturer information	
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycoether)
Calibration	In air from 10 MHz to 2.5 GHz In head tissue simulating liquid (HSL) at 900 (800-1000) MHz and 1.8 GHz (1700-1910 MHz) (accuracy $\pm 9.5\%$; k=2) Calibration for other liquids and frequencies upon request
Frequency	10 MHz to 3 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 3 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Optical Surface Detection	± 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces (ET3DV6 only)
Dimensions	Overall length: 330 mm Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm Distance from probe tip to dipole centers: 2.7 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (ET3DV6)

6.1.4 Phantom description

The used SAM Phantom meets the requirements specified in Edition 01-01 of Supplement C to OET Bulletin 65 for Specific Absorption Rate (SAR) measurements.

The phantom consists of a fibreglass shell integrated in a wooden table. It allows left-hand and right-hand head as well as body-worn measurements with a maximum liquid depth of 18 cm in head position and 22 cm in planar position (body measurements). The thickness of the Phantom shell is 2 mm +/- 0.1 mm.



6.1.5 Device holder description

The DASY4 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA's only. If necessary an additional support of polystyrene material is used.



Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values.

Therefore those devices are normally only tested at the flat part of the SAM.

6.1.6 Scanning procedure

- The DASY4 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.
- The „reference“ and „drift“ measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT's output power and should vary max. +/- 5 %.
- The „surface check“ measurement tests the optical surface detection system of the DASY4 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)
- The „area scan“ measures the SAR above the DUT or verification dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The probe is touching the surface of the SAM during acquisition of measurement values. The standard scan uses large grid spacing for faster measurement. Standard grid spacing for head measurements is 15 mm in x- and y- dimension. If a finer resolution is needed, the grid spacing can be reduced. Grid spacing and orientation have no influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation. Results of this coarse scan are shown in annex 2.
- A „7x7x7 zoom scan“ measures the field in a volume around the 2D peak SAR value acquired in the previous „coarse“ scan. This is a fine 7x7 grid where the robot additionally moves the probe in 7 steps along the z-axis away from the bottom of the Phantom. Grid spacing for the cube measurement is 5 mm in x and y-direction and 5 mm in z-direction. DASY4 is also able to perform repeated zoom scans if more than 1 peak is found during area scan. In this document, the evaluated peak 1g and 10g averaged SAR values are shown in the 2D-graphics in annex 2. Test results relevant for the specified standard (see section 3) are shown in table form in section 7.
- A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 2mm steps. This measurement shows the continuity of the liquid and can - depending in the field strength – also show the liquid depth. A z-axis scan of the measurement with maximum SAR value is shown in annex 2.

6.1.7 Spatial Peak SAR Evaluation

The spatial peak SAR - value for 1 and 10 g is evaluated after the Cube measurements have been done. The basis of the evaluation are the SAR values measured at the points of the fine cube grid consisting of 7 x 7 x 7 points. The algorithm that finds the maximal averaged volume is separated into three different stages.

- The data between the dipole center of the probe and the surface of the phantom are extrapolated. This data cannot be measured since the center of the dipole is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is about 1 mm (see probe calibration sheet). The extrapolated data from a cube measurement can be visualized by selecting 'Graph Evaluated'.
- The maximum interpolated value is searched with a straight-forward algorithm. Around this maximum the SAR - values averaged over the spatial volumes (1g or 10 g) are computed using the 3d-spline interpolation algorithm. If the volume cannot be evaluated (i.e., if a part of the grid was cut off by the boundary of the measurement area) the evaluation will be started on the corners of the bottom plane of the cube.
- All neighboring volumes are evaluated until no neighboring volume with a higher average value is found.

Extrapolation

The extrapolation is based on a least square algorithm [W. Gander, Computermathematik, p.168-180]. Through the points in the first 3 cm along the z-axis, polynomials of order four are calculated. These polynomials are then used to evaluate the points between the surface and the probe tip. The points, calculated from the surface, have a distance of 1 mm from each other.

Interpolation

The interpolation of the points is done with a 3d-Spline. The 3d-Spline is composed of three one-dimensional splines with the "Not a knot"-condition [W. Gander, Computermathematik, p.141-150] (x, y and z -direction) [Numerical Recipes in C, Second Edition, p.123ff].

Volume Averaging

At First the size of the cube is calculated. Then the volume is integrated with the trapezoidal algorithm. 8000 points (20x20x20) are interpolated to calculate the average.

Advanced Extrapolation

DASY4 uses the advanced extrapolation option which is able to compensate boundary effects on E-field probes.

6.1.8 Data Storage and Evaluation

Data Storage

The DASY4 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DA4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation by SEMCAD

The SEMCAD 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	$\text{Norm}_i, a_{i0}, a_{i1}, a_{i2}$
	- Conversion factor	ConvF_i
	- Diode compression point	D_{cpi}
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 they can be imported into the software from the configuration files issued for the DASY4 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. 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:

$$V_i = U_i + U_i^2 \cdot cf/dcp_i$$

with V_i = compensated signal of channel i (i = x, y, z)
 U_i = input signal of channel i (i = x, y, z)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

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

E-field probes: $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

H-field probes: $H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$

with V_i = compensated signal of channel i (i = x, y, z)
 $Norm_i$ = sensor sensitivity of channel i (i = x, y, z)
 [mV/(V/m)²] for E-field Probes
 $ConvF$ = sensitivity enhancement in solution
 a_{ij} = sensor sensitivity factors for H-field probes
 f = carrier frequency [GHz]
 E_i = electric field strength of channel i in V/m
 H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

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

$$SAR = (E_{tot}^2 \cdot \sigma) / (\rho \cdot 1000)$$

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm³

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 to be 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/cm²
 E_{tot} = total electric field strength in V/m
 H_{tot} = total magnetic field strength in A/m

6.1.9 Tissue simulating liquids: dielectric properties

The following materials are used for producing the tissue-equivalent materials.

(Liquids used for tests described in section 7. are marked with ☒) :

Ingredients (% of weight)	Frequency (MHz)					
	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input checked="" type="checkbox"/> 2450
frequency band	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input checked="" type="checkbox"/> 2450
Tissue Type	Head	Head	Head	Head	Head	Head
Water	38.56	41.45	40.92	52.64	54.9	62.7
Salt (NaCl)	3.95	1.45	1.48	0.36	0.18	0.5
Sugar	56.32	56.0	56.5	0.0	0.0	0.0
HEC	0.98	1.0	1.0	0.0	0.0	0.0
Bactericide	0.19	0.1	0.1	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	36.8
DGBE	0.0	0.0	0.0	47.0	44.92	0.0

Table 2: Head tissue dielectric properties

Ingredients (% of weight)	Frequency (MHz)					
	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input checked="" type="checkbox"/> 2450
frequency band	<input type="checkbox"/> 450	<input checked="" type="checkbox"/> 835	<input type="checkbox"/> 900	<input type="checkbox"/> 1800	<input checked="" type="checkbox"/> 1900	<input checked="" type="checkbox"/> 2450
Tissue Type	Body	Body	Body	Body	Body	Body
Water	51.16	52.4	56.0	69.91	69.91	73.2
Salt (NaCl)	1.49	1.40	0.76	0.13	0.13	0.04
Sugar	46.78	45.0	41.76	0.0	0.0	0.0
HEC	0.52	1.0	1.21	0.0	0.0	0.0
Bactericide	0.05	0.1	0.27	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	0.0	29.96	29.96	26.7

Table 3: Body tissue dielectric properties

Salt: 99+% Pure Sodium Chloride

Sugar: 98+% Pure Sucrose

Water: De-ionized, 16MΩ+ resistivity

HEC: Hydroxyethyl Cellulose

DGBE: 99+% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]

Triton X-100(ultra pure): Polyethylene glycol mono [4-(1,1,3,3-tetramethylbutyl)phenyl]ether

Note: Due to their availability body tissue simulating liquids as defined by FCC OET Bulletin 65 Supplement C are generally used for body worn SAR testing according to European standards.

6.1.10 Tissue simulating liquids: parameters

Used Target Frequency	Target Head Tissue		Measured Head Tissue		Measured Date
	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
[MHz]					
835	41.5	0.90	42.2	0.90	2010-03-09
900	41.5	0.97	41.4	0.97	2010-03-09
1900	40.0	1.40	40.4	1.40	2010-03-06
2450	39.2	1.80	38.9	1.89	2010-03-04

Table 4: Parameter of the head tissue simulating liquid

Used Target Frequency	Target Body Tissue		Measured Body Tissue		Measured Date
	Permittivity	Conductivity [S/m]	Permittivity	Conductivity [S/m]	
[MHz]					
835	55.2	0.97	54.5	0.96	2010-03-10
900	55.0	1.05	53.9	1.03	2010-03-10
1900	53.3	1.52	53.0	1.52	2010-03-11
2450	52.7	1.95	51.9	1.99	2010-03-04

Table 5: Parameter of the body tissue simulating liquid

Note: The dielectric properties have been measured using the contact probe method at 22°C.

6.1.11 Measurement uncertainty evaluation for SAR test

The overall combined measurement uncertainty of the measurement system is $\pm 10.3\%$ ($K=1$).

The expanded uncertainty ($k=2$) is assessed to be $\pm 20.6\%$

This measurement uncertainty budget is suggested by IEEE 1528-2003 and determined by Schmid & Partner Engineering AG. The breakdown of the individual uncertainties is as follows:

Error Sources	Uncertainty Value	Probability Distribution	Divisor	c_i 1g	c_i 10g	Standard Uncertainty 1g	Standard Uncertainty 10g	v_i^2 or v_{eff}
Measurement System								
Probe calibration	$\pm 4.8\%$	Normal	1	1	1	$\pm 4.8\%$	$\pm 4.8\%$	∞
Axial isotropy	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	0.7	0.7	$\pm 1.9\%$	$\pm 1.9\%$	∞
Hemispherical isotropy	$\pm 9.6\%$	Rectangular	$\sqrt{3}$	0.7	0.7	$\pm 3.9\%$	$\pm 3.9\%$	∞
Spatial resolution	$\pm 0.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.0\%$	$\pm 0.0\%$	∞
Boundary effects	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Probe linearity	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$	∞
System detection limits	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Readout electronics	$\pm 1.0\%$	Normal	1	1	1	$\pm 1.0\%$	$\pm 1.0\%$	∞
Response time	$\pm 0.8\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.5\%$	$\pm 0.5\%$	∞
Integration time	$\pm 2.6\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 1.5\%$	$\pm 1.5\%$	∞
RF ambient conditions	$\pm 3.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$	∞
Probe positioner	$\pm 0.4\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.2\%$	$\pm 0.2\%$	∞
Probe positioning	$\pm 2.9\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$	∞
Max. SAR evaluation	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Test Sample Related								
Device positioning	$\pm 2.9\%$	Normal	1	1	1	$\pm 2.9\%$	$\pm 2.9\%$	145
Device holder uncertainty	$\pm 3.6\%$	Normal	1	1	1	$\pm 3.6\%$	$\pm 3.6\%$	5
Power drift	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.9\%$	$\pm 2.9\%$	∞
Phantom and Set-up								
Phantom uncertainty	$\pm 4.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.3\%$	$\pm 2.3\%$	∞
Liquid conductivity (target)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.64	0.43	$\pm 1.8\%$	$\pm 1.2\%$	∞
Liquid conductivity (meas.)	$\pm 2.5\%$	Normal	1	0.64	0.43	$\pm 1.6\%$	$\pm 1.1\%$	∞
Liquid permittivity (target)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.6	0.49	$\pm 1.7\%$	$\pm 1.4\%$	∞
Liquid permittivity (meas.)	$\pm 2.5\%$	Normal	1	0.6	0.49	$\pm 1.5\%$	$\pm 1.2\%$	∞
Combined Uncertainty						$\pm 10.3\%$	$\pm 10.0\%$	330
Expanded Std. Uncertainty						$\pm 20.6\%$	$\pm 20.1\%$	

Table 6: Measurement uncertainties

6.1.12 Measurement uncertainty evaluation for system validation

The overall combined measurement uncertainty of the measurement system is $\pm 8.4\%$ ($K=1$).

The expanded uncertainty ($k=2$) is assessed to be $\pm 16.8\%$

This measurement uncertainty budget is suggested by IEEE 1528-2003 and determined by Schmid & Partner Engineering AG. The breakdown of the individual uncertainties is as follows:

Error Sources	Uncertainty Value	Probability Distribution	Divisor	c_i 1g	c_i 10g	Standard Uncertainty 1g	Standard Uncertainty 10g	v_i^2 or v_{eff}
Measurement System								
Probe calibration	$\pm 4.8\%$	Normal	1	1	1	$\pm 4.8\%$	$\pm 4.8\%$	∞
Axial isotropy	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	0.7	0.7	$\pm 1.9\%$	$\pm 1.9\%$	∞
Hemispherical isotropy	$\pm 0.0\%$	Rectangular	$\sqrt{3}$	0.7	0.7	$\pm 0.0\%$	$\pm 3.9\%$	∞
Boundary effects	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Probe linearity	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$	∞
System detection limits	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Readout electronics	$\pm 1.0\%$	Normal	1	1	1	$\pm 1.0\%$	$\pm 1.0\%$	∞
Response time	$\pm 0.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.0\%$	$\pm 0.0\%$	∞
Integration time	$\pm 0.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.0\%$	$\pm 0.0\%$	∞
RF ambient conditions	$\pm 3.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$	∞
Probe positioner	$\pm 0.4\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.2\%$	$\pm 0.2\%$	∞
Probe positioning	$\pm 2.9\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 1.7\%$	$\pm 1.7\%$	∞
Max. SAR evaluation	$\pm 1.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 0.6\%$	$\pm 0.6\%$	∞
Test Sample Related								
Dipole axis to liquid distance	$\pm 2.0\%$	Normal	1	1	1	$\pm 1.2\%$	$\pm 1.2\%$	∞
Power drift	$\pm 4.7\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.7\%$	$\pm 2.7\%$	∞
Phantom and Set-up								
Phantom uncertainty	$\pm 4.0\%$	Rectangular	$\sqrt{3}$	1	1	$\pm 2.3\%$	$\pm 2.3\%$	∞
Liquid conductivity (target)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.64	0.43	$\pm 1.8\%$	$\pm 1.2\%$	∞
Liquid conductivity (meas.)	$\pm 2.5\%$	Normal	1	0.64	0.43	$\pm 1.6\%$	$\pm 1.1\%$	∞
Liquid permittivity (target)	$\pm 5.0\%$	Rectangular	$\sqrt{3}$	0.6	0.49	$\pm 1.7\%$	$\pm 1.4\%$	∞
Liquid permittivity (meas.)	$\pm 2.5\%$	Normal	1	0.6	0.49	$\pm 1.5\%$	$\pm 1.2\%$	∞
Combined Uncertainty						$\pm 8.4\%$	$\pm 8.1\%$	
Expanded Std. Uncertainty						$\pm 16.8\%$	$\pm 16.2\%$	

Table 7: Measurement uncertainties

6.1.13 System validation

The system validation is performed for verifying the accuracy of the complete measurement system and performance of the software. The system validation is performed with tissue equivalent material according to IEEE 1528. The following table shows validation results for all frequency bands and tissue liquids used during the tests (plot(s) see annex A).

Validation Kit	Frequency	Target Peak SAR (1000 mW) (+/- 10%)	Target SAR _{1g} (1000 mW) (+/- 10%)	Measured Peak SAR (1000 mW)	Measured SAR _{1g} (1000 mW)	Measured date
D900V2 S/N: 102	900 MHz head	16.7 mW/g	11.3 mW/g	16.6 mW/g	11.1 mW/g	2010-03-09
D900V2 S/N: 102	900 MHz body	16.8 mW/g	11.3 mW/g	16.5 mW/g	11.3 mW/g	2010-03-10
D1900V2 S/N: 5d009	1900 MHz head	72.4 mW/g	39.7 mW/g	72.0 mW/g	41.3 mW/g	2010-03-06
D1900V2 S/N: 5d009	1900 MHz head	72.4 mW/g	39.7 mW/g	68.7 mW/g	39.1 mW/g	2010-03-07
D1900V2 S/N: 5d009	1900 MHz body	68.1 mW/g	40.1 mW/g	62.1 mW/g	36.4 mW/g	2010-03-11
D2450V2 S/N: 710	2450 MHz head	108.8 mW/g	52.7 mW/g	113.3 mW/g	55.5 mW/g	2010-03-04
D2450V2 S/N: 710	2450 MHz body	109.6 mW/g	51.4 mW/g	109.6 mW/g	50.1 mW/g	2010-03-04

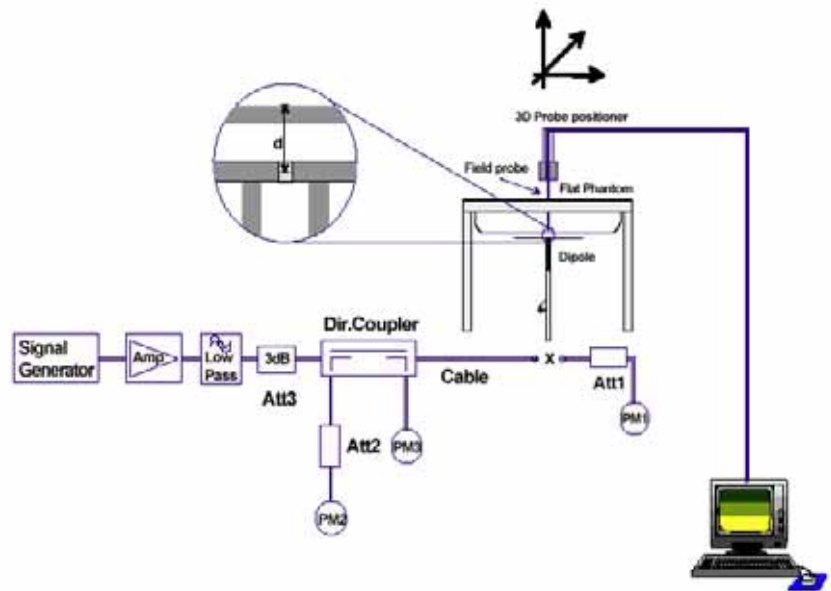
Table 8: Results system validation

Note : 900 MHz probe/dipole calibration is valid +/-100 MHz and fully covers the 850 MHz band.

6.1.14 Validation procedure

The validation is performed by using a validation dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a plexiglass spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 1000 mW. To adjust this power a power meter is used. The power sensor is connected to the cable before the validation to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the validation to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

Validation results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system.



7 Detailed Test Results

7.1 Conducted power measurements

For the measurements a Rohde & Schwarz Radio Communication Tester CMU 200 was used. The output power was measured using an integrated RF connector and attached RF cable. The conducted output power was also checked before and after each SAR measurement. The resulting power values were within a 0.2 dB tolerance of the values shown below.

Note: CMU200 measures GSM peak and average output power for active timeslots.
For SAR the timebased average power is relevant. The difference inbetween depends on the duty cycle of the TDMA signal :

No. of timeslots	1	2	3	4
Duty Cycle	1 : 8	1: 4	1 : 2.66	1 : 2
timebased avg. power compared to slotted avg. power	- 9 dB	- 6 dB	- 4.25 dB	- 3 dB

The signalling modes differ as follows :

mode	coding scheme	modulation
GPRS	CS1 to CS4	GMSK
EGPRS (EDGE)	MCS1 to MCS4	GMSK
EGPRS (EDGE)	MCS5 to MCS9	8PSK

Apart from modulation change (GMSK/8PSK) coding schemes differ in code rate without influence on the RF signal. Therefore one coding scheme per mode was selected for conducted power measurements.

7.1.1 Conducted power measurements GSM 850 MHz

Channel / frequency	modulation	timeslots	slotted avg. power	timebased avg. power (calculated)
128 / 824.2 MHz	GMSK	1	33.3dBm	24.3dBm
190 / 836.6 MHz	GMSK	1	33.2dBm	24.2dBm
251 / 848.0 MHz	GMSK	1	33.1dBm	24.1dBm
128 / 824.2 MHz	GMSK	2	31.0dBm	25.0dBm
190 / 836.6 MHz	GMSK	2	31.0dBm	25.0dBm
251 / 848.0 MHz	GMSK	2	30.9dBm	24.9dBm
128 / 824.2 MHz	8PSK	2	28.3dBm	22.3dBm
190 / 836.6 MHz	8PSK	2	28.3dBm	22.3dBm
251 / 848.0 MHz	8PSK	2	28.2dBm	22.2dBm

Table 9: Test results conducted power measurement GSM 850 MHz

7.1.2 Conducted power measurements GSM 1900 MHz

Channel / frequency	modulation	timeslots	slotted avg. power	timebased avg. power (calculated)
512 / 1850.2 MHz	GMSK	1	31.0dBm	22.0dBm
661 / 1880.0 MHz	GMSK	1	31.2dBm	22.2dBm
810 / 1909.8 MHz	GMSK	1	31.3dBm	22.3dBm
512 / 1850.2 MHz	GMSK	2	29.0dBm	23.0dBm
661 / 1880.0 MHz	GMSK	2	29.2dBm	23.2dBm
810 / 1909.8 MHz	GMSK	2	29.1dBm	23.1dBm
512 / 1850.2 MHz	8PSK	2	26.7dBm	20.7dBm
661 / 1880.0 MHz	8PSK	2	27.2dBm	21.2dBm
810 / 1909.8 MHz	8PSK	2	27.1dBm	21.1dBm

Table 10: Test results conducted power measurement GSM 1900 MHz

7.1.3 Justification of SAR measurements in GSM mode

SAR measurements were performed in GPRS mode with 2 active timeslots because highest timebased averaged output power was calculated for that configuration.

For comparison an additional delta measurement was performed with 1 timeslot in speech mode.

7.1.4 Conducted power measurements WCDMA FDD V (850 MHz)

mode	Max. RMS output power 850 MHz (FDD V) / dBm		
	4132 / 826.4 MHz	4182 / 836.6 MHz	4233 / 846.6 MHz
RMC 12.2 kbit/s	24.45	24.56	24.48
RMC 64 kbit/s	24.40	24.52	24.45
RMC 144 kbit/s	24.44	24.51	24.43
RMC 384 kbit/s	24.36	24.47	24.40
AMR 4,75 kbit/s	24.45	24.53	24.37
AMR 5,15 kbit/s	24.41	24.55	24.38
AMR 5,9 kbit/s	24.36	24.52	24.41
AMR 6,7 kbit/s	24.39	24.51	24.46
AMR7,4 kbit/s	24.37	24.48	24.39
AMR 7,95 kbit/s	24.38	24.49	24.42
AMR 10,2 kbit/s	24.40	24.46	24.41
AMR 12,2 kbit/s	24.39	24.42	24.37
HSDPA Sub test 1	24.33	24.24	24.18
HSDPA Sub test 2	22.47	22.49	22.50
HSDPA Sub test 3	21.85	22.05	22.23
HSDPA Sub test 4	21.30	21.42	21.43

Table 11: Test results conducted power measurement WCDMA 850

7.1.5 Conducted power measurements WCDMA FDD II (1900 MHz)

Max. RMS output power 1900 MHz (FDD II) / dBm			
mode	Channel / frequency		
	9262 / 1852.4 MHz	9400 / 1880.0 MHz	9538 / 1907.6 MHz
RMC 12.2 kbit/s	24.93	24.70	24.31
RMC 64 kbit/s	24.90	24.70	24.20
RMC 144 kbit/s	24.94	24.71	24.12
RMC 384 kbit/s	24.89	24.66	24.08
AMR 4,75 kbit/s	24.88	24.71	23.95
AMR 5,15 kbit/s	24.85	24.68	23.98
AMR 5,9 kbit/s	24.89	24.67	23.97
AMR 6,7 kbit/s	24.90	24.68	23.93
AMR7,4 kbit/s	24.83	24.69	23.89
AMR 7,95 kbit/s	24.86	24.64	24.02
AMR 10,2 kbit/s	24.90	24.63	24.05
AMR 12,2 kbit/s	24.91	24.62	23.98
HSDPA Sub test 1	24.98	24.78	24.20
HSDPA Sub test 2	22.89	22.79	22.54
HSDPA Sub test 3	22.45	22.38	22.43
HSDPA Sub test 4	22.27	21.75	21.46

Table 12: Test results conducted power measurement WCDMA 1900

Remark : None of the HSDPA settings leads to conducted power values exceeding the conducted power in RMC mode by more than 0.25 dB.

Therefore no additional SAR measurements were performed in HSDPA mode.

7.1.6 Test-set-up information for WCDMA / HSPDA

a) RMC

In RMC (reference measurement channel) mode the conducted power at 4 different bit rates was measured. They correspond with the used spreading factors as follows :

Bit rate	12.2 kbit/s	64 kbit/s	144 kbit/s	384 kbit/s
Spreading factor (SF)	64	16	8	4

In RMC mode only DPCCH and DPDCH are active. As bit rate changes do not influence the relative power of any code channel the measured RMS output power remains on the same level which is set to maximum by TPC (Transmit power control) pattern type 'All 1'.

b) HSDPA

HSDPA adds the HS-DPCCH in uplink as a control channel for high speed data transfer in downlink. In HSDPA mode 4 sub-tests are defined by 3GPP 34.121 according to the following table:

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	CM(dB)⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: $\Delta_{ACK}, \Delta_{NACK}, \Delta_{CQI} = 8 \iff A_{hs} = \beta_{hs}/\beta_c = 30/15 \iff \beta_{hs} = 30/15 * \beta_c$

Note 2 : CM = 1 for $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$

Note 3 : For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1,TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

Table 13: Sub-tests for UMTS Release 5 HSDPA

The β_c and β_d gain factors for DPCCH and DPDCH were set according to the values in the above table, β_{hs} for HS-DPCCH is set automatically to the correct value when $\Delta_{ACK}, \Delta_{NACK}, \Delta_{CQI} = 8$. The variation of the β_c/β_d ratio causes a power reduction at sub-tests 2 - 4.

The measurements were performed with a Fixed Reference Channel(FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI's
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 14: settings of required H-Set 1 QPSK acc. to 3GPP 34.121

7.1.7 Conducted power measurements WLAN 2.4 GHz

Channel / frequency	modulation	bit rate	peak power	avg. power
1 / 2412 MHz	CCK	1 MBit/s	19.37dBm	17.5dBm
6 / 2437 MHz	CCK	1 MBit/s	19.95dBm	17.9dBm
11 / 2462 MHz	CCK	1 MBit/s	19.18dBm	17.0dBm
1 / 2412 MHz	OFDM	6 MBit/s	23.81dBm	15.1dBm
6 / 2437 MHz	OFDM	6 MBit/s	24.33dBm	15.1dBm
11 / 2462 MHz	OFDM	6 MBit/s	23.43dBm	15.1dBm

Table 15: Test results conducted power measurement WLAN 2.4 GHz

Test results and measurement procedures see also Part 15.247 test report 1-1954-06-09/10.

7.1.8 Multiple Transmitter Information

The following tables list information which is relevant for the decision if a simultaneous transmit evaluation is necessary according to KDB 648474.

important abbreviations :

SPLSR : Antenna pair SAR to Peak Location Separation Ratio $(SAR_x + SAR_y)/d_{xy}$

P_{ref} : 12 mW at 2.4 GHz

a) head position

Tx No.	Communication system and frequency band	P_{avg} (mW)	single SAR (W/kg) (see ch. 2.6)	remarks
1a	GSM 850 MHz	250	1.13	routine evaluation
1b	GSM 1900 MHz	125	1.14	routine evaluation
1c	FDD V 850 MHz	250	1.01	routine evaluation
1d	FDD II 1900 MHz	250	1.32	routine evaluation
2	WLAN 2450 MHz	100	0.742	$P_2 > P_{ref}$
3	Bluetooth 2450 MHz	7	:=0	$P_3 < P_{ref}$
Sum of all 1g-SAR values			n/a	

Table 16: Communication systems and SAR values in head position

antenna pair (x,y)	peak SAR distance d_{xy} (cm)	L_{xy} (cm)	SPLSR _{xy}	sim.-Tx SAR	remarks
(1a,2)	8.3	n/a	0.226	N	SPLSR _{1a2} < 0.3
(1b,2)	8.3	n/a	0.227	N	SPLSR _{1b2} < 0.3
(1c,2)	8.3	n/a	0.211	N	SPLSR _{1c2} < 0.3
(1d,2)	8.4	n/a	0.245	N	SPLSR _{1d2} < 0.3

Table 17: Antenna distances and SPLSR evaluation in head position

b) body position

Tx No.	Communcation system and frequency band	P_{avg} (mW)	single SAR (W/kg) (see ch. 2.6)	remarks
1a	GSM 850 MHz	500	0.821	routine evaluation
1b	GSM 1900 MHz	250	1.04	routine evaluation
1c	FDD V 850 MHz	250	0.644	routine evaluation
1d	FDD II 1900 MHz	250	1.07	routine evaluation
2	WLAN 2450 MHz	100	0.078	$P_2 > P_{ref}$
3	Bluetooth 2450 MHz	7	$=0$	$P_3 < P_{ref}$
Sum of all 1g-SAR values			n/a	

Table 18: Communication systems and SAR values in body position

antenna pair (x,y)	antenna distance d_{xy} (cm)	L_{xy} (cm)	SPLSR _{xy}	sim.-Tx SAR	remarks
(1a,2)	8.5	n/a	0.105	N	SPLSR _{1a2} < 0.3
(1b,2)	8.6	n/a	0.130	N	SPLSR _{1b2} < 0.3
(1c,2)	8.6	n/a	0.208	N	SPLSR _{1c2} < 0.3
(1d,2)	8.6	n/a	0.133	N	SPLSR _{1d2} < 0.3

Table 19: Antenna distances and SPLSR evaluation in body position

7.2 SAR test results

7.2.1 Results overview

Head SAR GSM 850 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature	
					left	right
128 / 824.2 MHz	cheek	0.719 W/kg	0.773 W/kg	1.6 W/kg	21.8 °C	21.9 °C
190 / 836.6 MHz	cheek	1.130 W/kg	1.040 W/kg	1.6 W/kg	21.8 °C	21.9 °C
251 / 848.8 MHz	cheek	1.010 W/kg	0.945 W/kg	1.6 W/kg	21.8 °C	21.9 °C
128 / 824.2 MHz	tilted 15°	0.366 W/kg	0.372 W/kg	1.6 W/kg	21.8 °C	21.9 °C
190 / 836.6 MHz	tilted 15°	0.534 W/kg	0.531 W/kg	1.6 W/kg	21.8 °C	21.9 °C
251 / 848.8 MHz	tilted 15°	0.491 W/kg	0.462 W/kg	1.6 W/kg	21.8 °C	21.9 °C

Table 20: Test results head SAR GSM 850 MHz

Body SAR GSM 850 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
128 / 824.2 MHz	front	2 time slots	0.531 W/kg	1.6 W/kg	21.0 °C
190 / 836.6 MHz	front	2 time slots	0.505 W/kg	1.6 W/kg	21.0 °C
251 / 848.8 MHz	front	2 time slots	0.425 W/kg	1.6 W/kg	21.0 °C
128 / 824.2 MHz	rear	2 time slots	0.821 W/kg	1.6 W/kg	21.1 °C
190 / 836.6 MHz	rear	2 time slots	0.752 W/kg	1.6 W/kg	21.1 °C
251 / 848.8 MHz	rear	2 time slots	0.683 W/kg	1.6 W/kg	21.1 °C
128 / 824.2 MHz	rear	1 time slot	0.500 W/kg	1.6 W/kg	21.1 °C

Table 21: Test results body SAR GSM 850 MHz

Head SAR GSM 1900 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature	
					left	right
512 / 1850.2 MHz	cheek	1.140 W/kg	0.547 W/kg	1.6 W/kg	21.6 °C	21.6 °C
661 / 1880.0 MHz	cheek	0.956 W/kg	0.398 W/kg	1.6 W/kg	21.6 °C	21.6 °C
810 / 1909.8 MHz	cheek	0.912 W/kg	0.332 W/kg	1.6 W/kg	21.6 °C	21.6 °C
512 / 1850.2 MHz	tilted 15°	0.317 W/kg	0.350 W/kg	1.6 W/kg	21.6 °C	21.6 °C
661 / 1880.0 MHz	tilted 15°	0.246 W/kg	0.269 W/kg	1.6 W/kg	21.6 °C	21.6 °C
810 / 1909.8 MHz	tilted 15°	0.205 W/kg	0.235 W/kg	1.6 W/kg	21.6 °C	21.6 °C

Table 22: Test results head SAR GSM 1900 MHz

Body SAR GSM 1900 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
512 / 1850.2 MHz	front	2 time slots	0.486 W/kg	1.6 W/kg	21.1 °C
661 / 1880.0 MHz	front	2 time slots	0.350 W/kg	1.6 W/kg	21.1 °C
810 / 1909.8 MHz	front	2 time slots	0.258 W/kg	1.6 W/kg	21.1 °C
512 / 1850.2 MHz	rear	2 time slots	1.040 W/kg	1.6 W/kg	21.1 °C
661 / 1880.0 MHz	rear	2 time slots	0.794 W/kg	1.6 W/kg	21.1 °C
810 / 1909.8 MHz	rear	2 time slots	0.563 W/kg	1.6 W/kg	21.1 °C
512 / 1850.2 MHz	rear	1 time slot	0.674 W/kg	1.6 W/kg	21.1 °C

Table 23: Test results body SAR GSM 1900 MHz

Head SAR UMTS FDD V 850 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature	
					left	right
4132 / 826.4 MHz	cheek	0.722 W/kg	0.741 W/kg	1.6 W/kg	21.8 °C	21.8 °C
4182 / 836.4 MHz	cheek	0.959 W/kg	0.969 W/kg	1.6 W/kg	21.8 °C	21.8 °C
4233 / 846.6 MHz	cheek	1.010 W/kg	0.986 W/kg	1.6 W/kg	21.8 °C	21.8 °C
4132 / 826.4 MHz	tilted 15°	0.396 W/kg	0.319 W/kg	1.6 W/kg	21.8 °C	21.7 °C
4182 / 836.4 MHz	tilted 15°	0.501 W/kg	0.438 W/kg	1.6 W/kg	21.8 °C	21.7 °C
4233 / 846.6 MHz	tilted 15°	0.495 W/kg	0.446 W/kg	1.6 W/kg	21.8 °C	21.7 °C

Table 24: Test results head SAR UMTS FDD V 850 MHz

Body SAR UMTS FDD V 850 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
4132 / 826.4 MHz	front	RMC, 12.2 kbit/s	0.294 W/kg	1.6 W/kg	21.1 °C
4182 / 836.4 MHz	front	RMC, 12.2 kbit/s	0.393 W/kg	1.6 W/kg	21.1 °C
4233 / 846.6 MHz	front	RMC, 12.2 kbit/s	0.384 W/kg	1.6 W/kg	21.1 °C
4132 / 826.4 MHz	rear	RMC, 12.2 kbit/s	0.473 W/kg	1.6 W/kg	21.1 °C
4182 / 836.4 MHz	rear	RMC, 12.2 kbit/s	0.606 W/kg	1.6 W/kg	21.1 °C
4233 / 846.6 MHz	rear	RMC, 12.2 kbit/s	0.644 W/kg	1.6 W/kg	21.1 °C

Table 25: Test results body SAR UMTS FDD V 850 MHz

Head SAR UMTS FDD II 1900 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature	
					left	right
9262 / 1852.4 MHz	cheek	1.150 W/kg	1.160 W/kg	1.6 W/kg	21.5 °C	21.6 °C
9400 / 1880.0 MHz	cheek	1.320 W/kg	0.832 W/kg	1.6 W/kg	21.5 °C	21.6 °C
9538 / 1907.6 MHz	cheek	1.280 W/kg	0.659 W/kg	1.6 W/kg	21.5 °C	21.5 °C
9262 / 1852.4 MHz	tilted 15°	0.351 W/kg	0.371 W/kg	1.6 W/kg	21.5 °C	21.5 °C
9400 / 1880.0 MHz	tilted 15°	0.374 W/kg	0.403 W/kg	1.6 W/kg	21.5 °C	21.5 °C
9538 / 1907.6 MHz	tilted 15°	0.301 W/kg	0.364 W/kg	1.6 W/kg	21.5 °C	21.5 °C

Table 26: Test results head SAR UMTS FDD II 1900 MHz

Body SAR UMTS FDD II 1900 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
9262 / 1852.4 MHz	front	RMC, 12.2 kbit/s	0.610 W/kg	1.6 W/kg	21.3 °C
9400 / 1880.0 MHz	front	RMC, 12.2 kbit/s	0.602 W/kg	1.6 W/kg	21.3 °C
9538 / 1907.6 MHz	front	RMC, 12.2 kbit/s	0.520 W/kg	1.6 W/kg	21.3 °C
9262 / 1852.4 MHz	rear	RMC, 12.2 kbit/s	1.030 W/kg	1.6 W/kg	21.3 °C
9400 / 1880.0 MHz	rear	RMC, 12.2 kbit/s	1.070 W/kg	1.6 W/kg	21.3 °C
9538 / 1907.6 MHz	rear	RMC, 12.2 kbit/s	0.917 W/kg	1.6 W/kg	21.3 °C

Table 27: Test results body SAR UMTS FDD II 1900 MHz

Head SAR WLAN 2450 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature	
					left	right
1 / 2412 MHz	cheek	0.535 W/kg	0.386 W/kg	1.6 W/kg	21.4 °C	21.4 °C
6 / 2437 MHz	cheek	0.564 W/kg	0.483 W/kg	1.6 W/kg	21.4 °C	21.4 °C
11 / 2462 MHz	cheek	0.742 W/kg	0.555 W/kg	1.6 W/kg	21.4 °C	21.4 °C
1 / 2412 MHz	tilted 15°	0.459 W/kg	0.459 W/kg	1.6 W/kg	21.4 °C	21.4 °C
6 / 2437 MHz	tilted 15°	0.411 W/kg	0.468 W/kg	1.6 W/kg	21.4 °C	21.4 °C
11 / 2462 MHz	tilted 15°	0.552 W/kg	0.449 W/kg	1.6 W/kg	21.4 °C	21.4 °C
11 / 2462 MHz	cheek 6Mbps	0.437 W/kg	--- W/kg	1.6 W/kg	21.4 °C	21.4 °C

Table 28: Test results head SAR WLAN 2450 MHz

Body SAR WLAN 2450 MHz (averaged over 1g tissue volume)					
Channel / frequency	Position	test condition	Body worn test result	Limit	Liquid temperature
1 / 2412 MHz	front	CCK 1 Mbit/s	0.065 W/kg	1.6 W/kg	22.0 °C
6 / 2437 MHz	front	CCK 1 Mbit/s	0.049 W/kg	1.6 W/kg	22.0 °C
11 / 2462 MHz	front	CCK 1 Mbit/s	0.078 W/kg	1.6 W/kg	22.0 °C
1 / 2412 MHz	rear	CCK 1 Mbit/s	0.054 W/kg	1.6 W/kg	22.0 °C
6 / 2437 MHz	rear	CCK 1 Mbit/s	0.043 W/kg	1.6 W/kg	22.0 °C
11 / 2462 MHz	rear	CCK 1 Mbit/s	0.047 W/kg	1.6 W/kg	22.0 °C
11 / 2462 MHz	front	OFDM 6 Mbit/s	0.045 W/kg	1.6 W/kg	22.0 °C

Table 29: Test results body SAR WLAN 2450 MHz

Note:

The SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit (< 0.8 W/kg), testing at the high and low channels is optional.

Tests in body position were performed with 15 mm air gap between DUT and SAM to simulate the use of a non-metallic belt-clip or holster.

The additional GSM body test was performed at worst case with 1 time slot in uplink in accordance with Sony Ericsson requirements.

7.2.2 General description of test procedures

The DUT is tested using a CMU 200 communications tester as controller unit to set test channels and maximum output power to the DUT, as well as for measuring the conducted peak power.

Test positions as described in the tables above are in accordance with the specified test standard.

Tests in body position were performed in that configuration, which generates the highest time based averaged output power (see conducted power results).

Tests in head position with GSM were performed in voice mode with 1 timeslot unless GPRS/EGPRS/DTM function allows parallel voice and data traffic on 2 or more timeslots (see section 2.3 for details).

UMTS was tested in RMC mode with 12.2 kbit/s and TPC bits set to 'all 1'.

8 Test equipment and ancillaries used for tests

To simplify the identification of the test equipment and/or ancillaries which were used, the reporting of the relevant test cases only refer to the test item number as specified in the table below.

No	used	Equipment	Type	Manufacturer	Serial No.	Last Calibration	Frequency (months)
1	<input checked="" type="checkbox"/>	Dosimetric E-Field Probe	ET3DV6	Schmid & Partner Engineering AG	1558	August 21, 2009	12
2	<input type="checkbox"/>	Dosimetric E-Field Probe	ET3DV6	Schmid & Partner Engineering AG	1559	January 20, 2010	12
3	<input checked="" type="checkbox"/>	900 MHz System Validation Dipole	D900V2	Schmid & Partner Engineering AG	102	August 17, 2009	12
4	<input type="checkbox"/>	1800 MHz System Validation Dipole	D1800V2	Schmid & Partner Engineering AG	287	August 18, 2009	12
5	<input checked="" type="checkbox"/>	1900 MHz System Validation Dipole	D1900V2	Schmid & Partner Engineering AG	531	August 18, 2009	12
6	<input checked="" type="checkbox"/>	2450 MHz System Validation Dipole	D2450V2	Schmid & Partner Engineering AG	710	August 17, 2009	12
7	<input checked="" type="checkbox"/>	Data acquisition electronics	DAE3V1	Schmid & Partner Engineering AG	413	January 4, 2010	12
8	<input type="checkbox"/>	Data acquisition electronics	DAE3V1	Schmid & Partner Engineering AG	477	May 14, 2009	12
9	<input checked="" type="checkbox"/>	Software	DASY 4 V4.5	Schmid & Partner Engineering AG	---	N/A	--
10	<input checked="" type="checkbox"/>	Phantom	SAM	Schmid & Partner Engineering AG	---	N/A	--
11	<input checked="" type="checkbox"/>	Universal Radio Communication Tester	CMU 200	Rohde & Schwarz	106826	January 12, 2010	12
12	<input checked="" type="checkbox"/>	Network Analyser 300 kHz to 6 GHz	8753C	Hewlett Packard)*	2937U00269	January 8, 2010	12
13	<input checked="" type="checkbox"/>	Network Analyser 300 kHz to 6 GHz	85047A	Hewlett Packard)*	2936A00872	January 8, 2010	12
14	<input checked="" type="checkbox"/>	Dielectric Probe Kit	85070C	Hewlett Packard	US99360146	N/A	12
15	<input checked="" type="checkbox"/>	Signal Generator	8665A	Hewlett Packard	2833A00112	January 8, 2010	12
16	<input checked="" type="checkbox"/>	Amplifier	25S1G4 (25 Watt)	Amplifier Research	20452	N/A	--
17	<input checked="" type="checkbox"/>	Power Meter	NRP	Rohde & Schwarz	101367	January 8, 2010	12
18	<input checked="" type="checkbox"/>	Power Meter Sensor	NRP Z22	Rohde & Schwarz	100227	January 8, 2010	12
19	<input checked="" type="checkbox"/>	Power Meter Sensor	NRP Z22	Rohde & Schwarz	100234	January 8, 2010	12

)* : Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

9 Observations

No observations exceeding those reported with the single test cases have been made.

Annex A: System performance verification

Date/Time: 2010-03-09 09:23:12 Date/Time: 2010-03-09 09:26:51

System Performance Check-D900-850 head 2010-03-09

DUT: Dipole 900 MHz; Type: D900V2; Serial: 102

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 41.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.84, 5.84, 5.84); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 12.0 mW/g

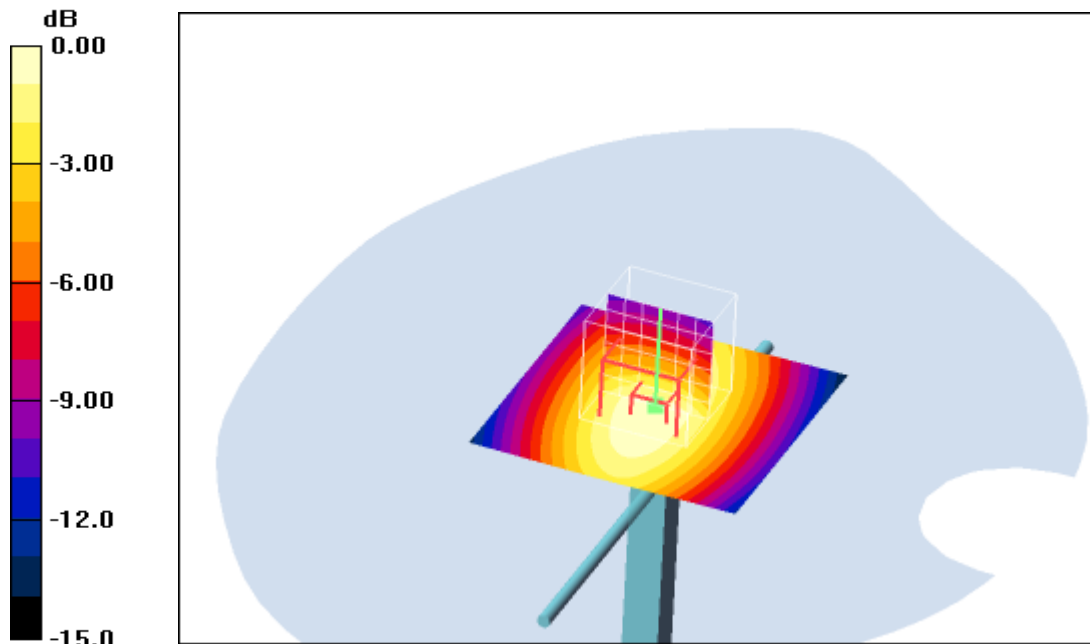
d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 115.7 V/m; Power Drift = -0.082 dB

Peak SAR (extrapolated) = 16.6 W/kg

SAR(1 g) = 11.1 mW/g; SAR(10 g) = 7.13 mW/g

Maximum value of SAR (measured) = 12.0 mW/g



0 dB = 12.0mW/g

Additional information:

ambient temperature: 22.9°C; liquid temperature: 21.9°C

Date/Time: 2010-03-10 08:05:41 Date/Time: 2010-03-10 08:09:27

System Performance Check-D900-850 body 2010-03-10

DUT: Dipole 900 MHz; Type: D900V2; Serial: 102

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1

Medium: M850 Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 1.03 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.63, 5.63, 5.63); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 12.1 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

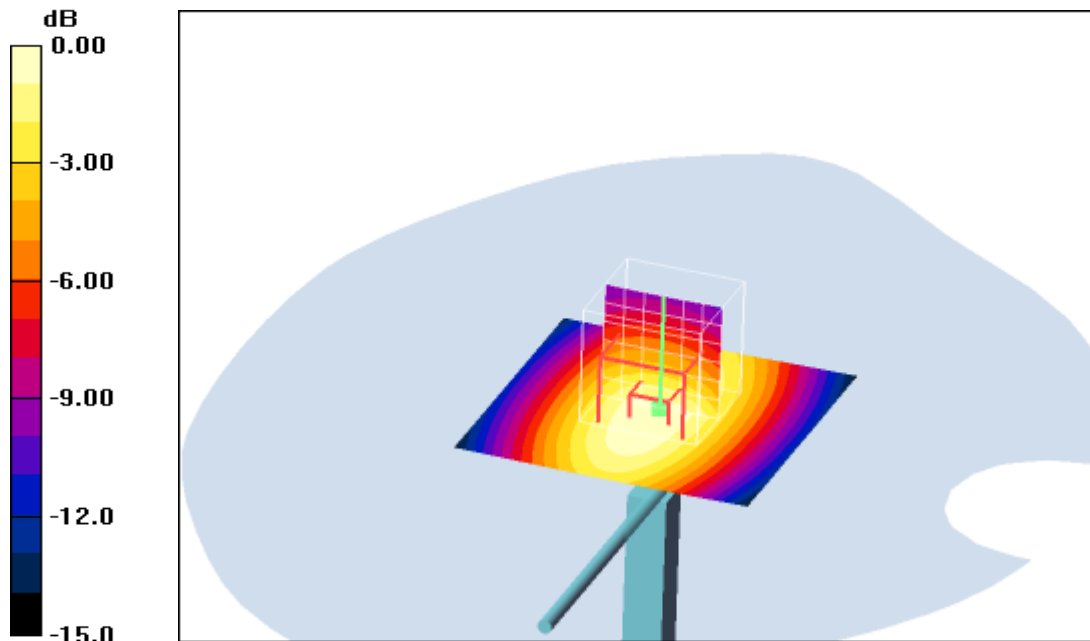
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 114.1 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 11.3 mW/g; SAR(10 g) = 7.32 mW/g

Maximum value of SAR (measured) = 12.3 mW/g



0 dB = 12.3mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.0°C

Date/Time: 2010-03-06 11:19:32 Date/Time: 2010-03-06 11:23:17

System Performance Check-D1900 head 2010-03-06

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 56.1 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

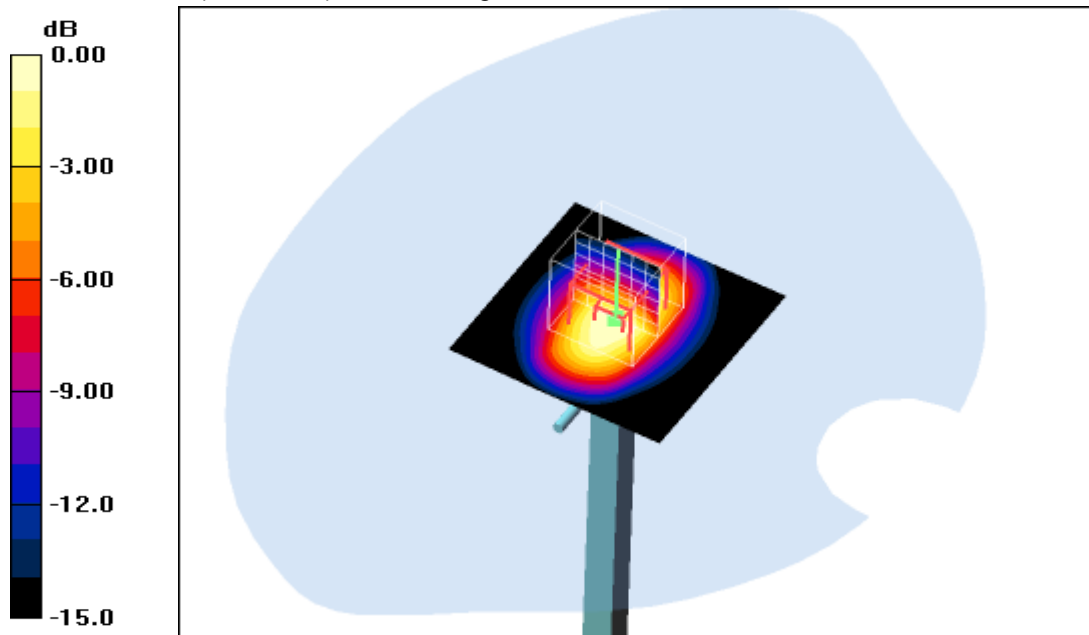
dx=5mm, dy=5mm, dz=5mm

Reference Value = 192.0 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 72.0 W/kg

SAR(1 g) = 41.3 mW/g; SAR(10 g) = 21.8 mW/g

Maximum value of SAR (measured) = 46.9 mW/g



0 dB = 46.9mW/g

Additional information:

ambient temperature: 22.7 °C; liquid temperature: 21.7 °C

Date/Time: 2010-03-07 13:53:32 Date/Time: 2010-03-07 13:57:24

System Performance Check-D1900 head 2010-03-07

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 52.4 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

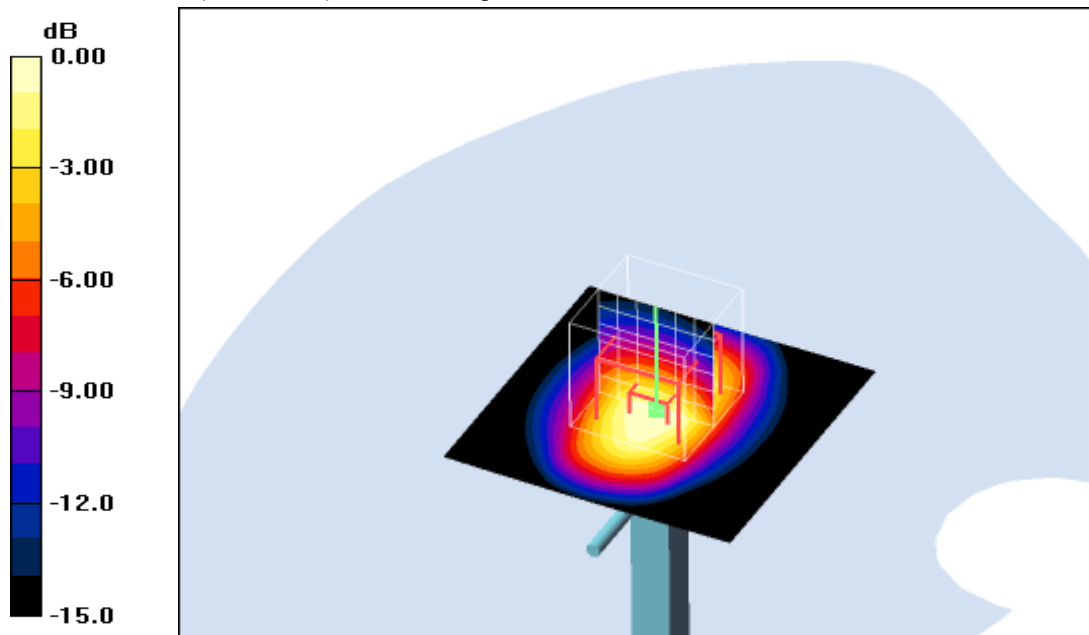
dx=5mm, dy=5mm, dz=5mm

Reference Value = 188.2 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 68.7 W/kg

SAR(1 g) = 39.1 mW/g; SAR(10 g) = 20.6 mW/g

Maximum value of SAR (measured) = 44.4 mW/g



0 dB = 44.4mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.5°C

Date/Time: 2010-03-11 08:17:36 Date/Time: 2010-03-11 08:21:25

System Performance Check-D1900 body 2010-03-11

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

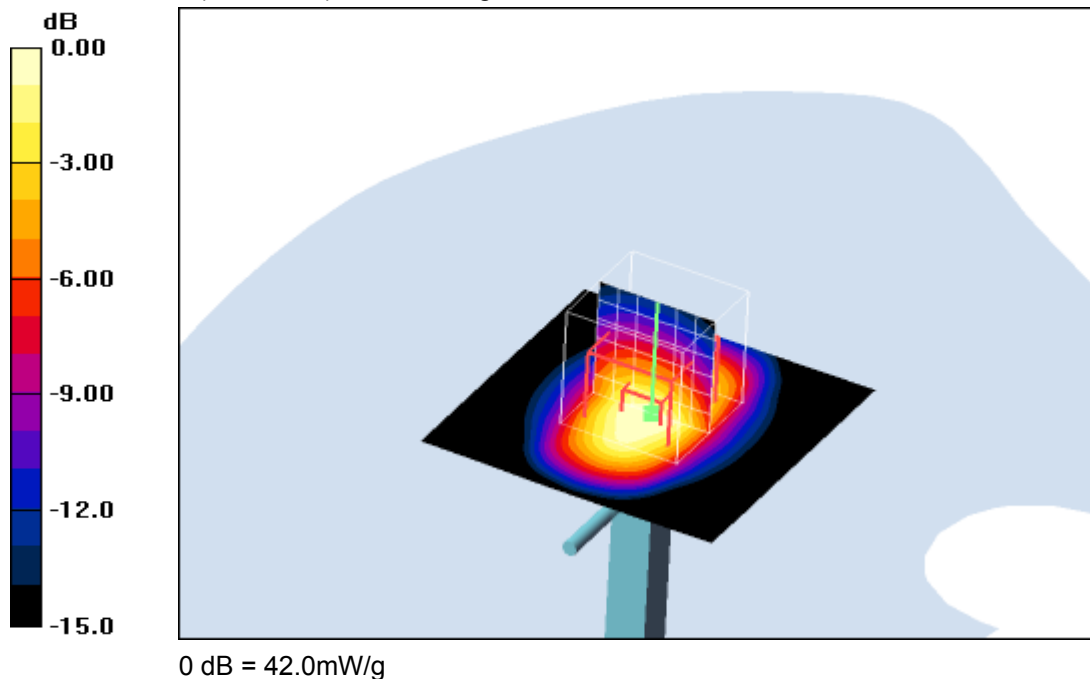
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 53.2 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 183.7 V/m; Power Drift = -0.017 dB
 Peak SAR (extrapolated) = 62.1 W/kg
SAR(1 g) = 36.4 mW/g; SAR(10 g) = 19.8 mW/g
 Maximum value of SAR (measured) = 42.0 mW/g



Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-04 16:11:19 Date/Time: 2010-03-04 16:14:58

System Performance Check-D2450 head 2010-03-04

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 710

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

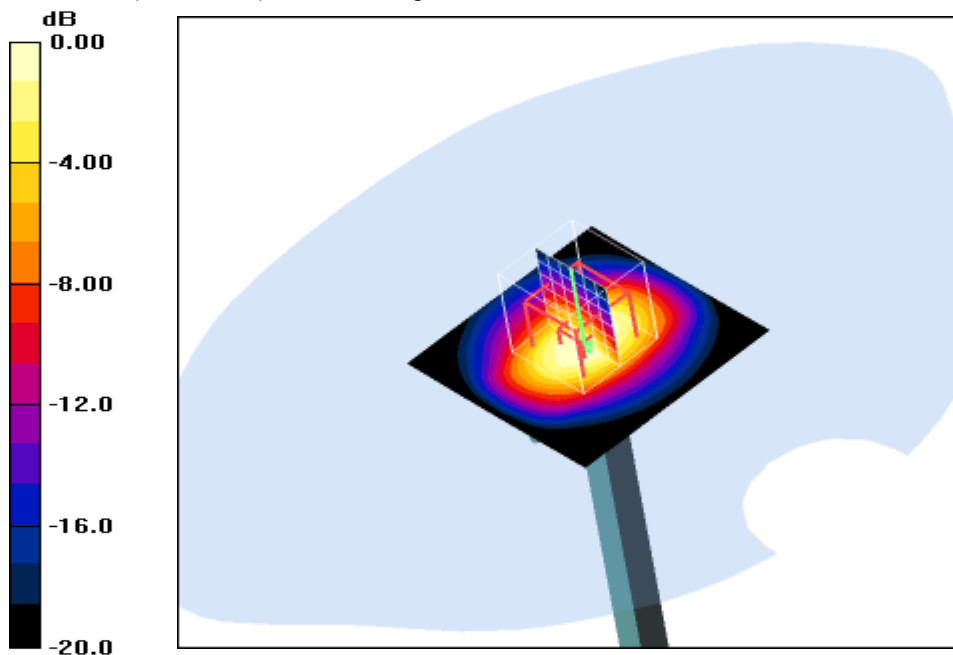
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 77.2 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 187.6 V/m; Power Drift = -0.00 dB
 Peak SAR (extrapolated) = 113.3 W/kg
SAR(1 g) = 55.5 mW/g; SAR(10 g) = 25.7 mW/g
 Maximum value of SAR (measured) = 61.9 mW/g



0 dB = 61.9mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 16:58:03 Date/Time: 2010-03-04 17:01:38

System Performance Check-D2450 body 2010-03-04

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 710

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

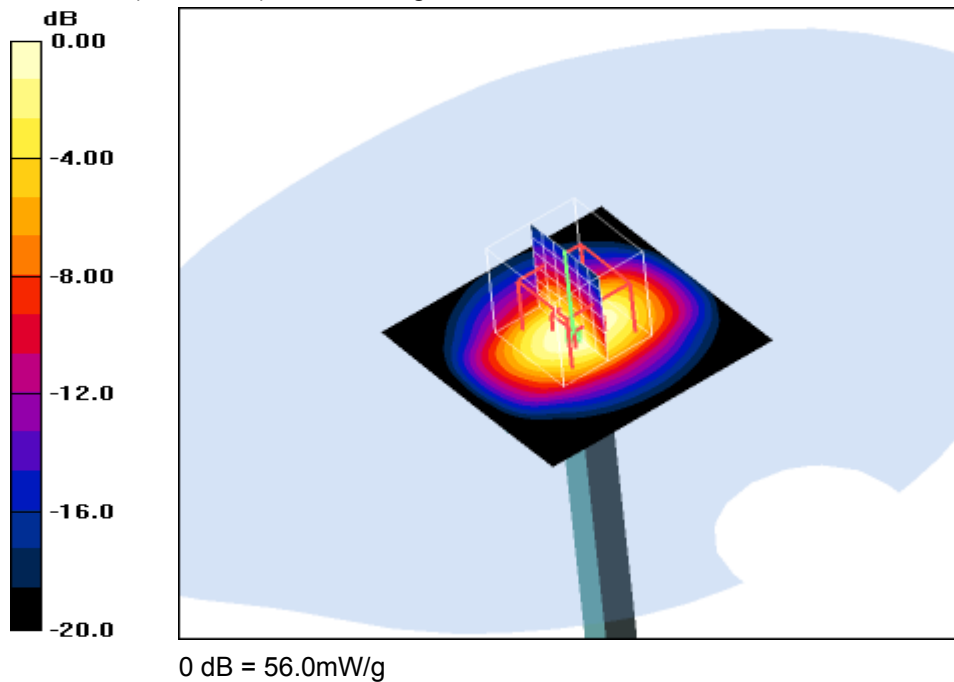
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=10mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 69.8 mW/g

d=10mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm
 Reference Value = 176.8 V/m; Power Drift = -0.029 dB
 Peak SAR (extrapolated) = 109.6 W/kg
SAR(1 g) = 50.1 mW/g; SAR(10 g) = 23.3 mW/g
 Maximum value of SAR (measured) = 56.0 mW/g



Additional information:

ambient temperature: 23.3°C; liquid temperature: 22.0°C

Annex B: DASY4 measurement results

Annex B.1: GSM 850 MHz head

Date/Time: 2010-03-09 12:34:25 Date/Time: 2010-03-09 12:40:53

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.773 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

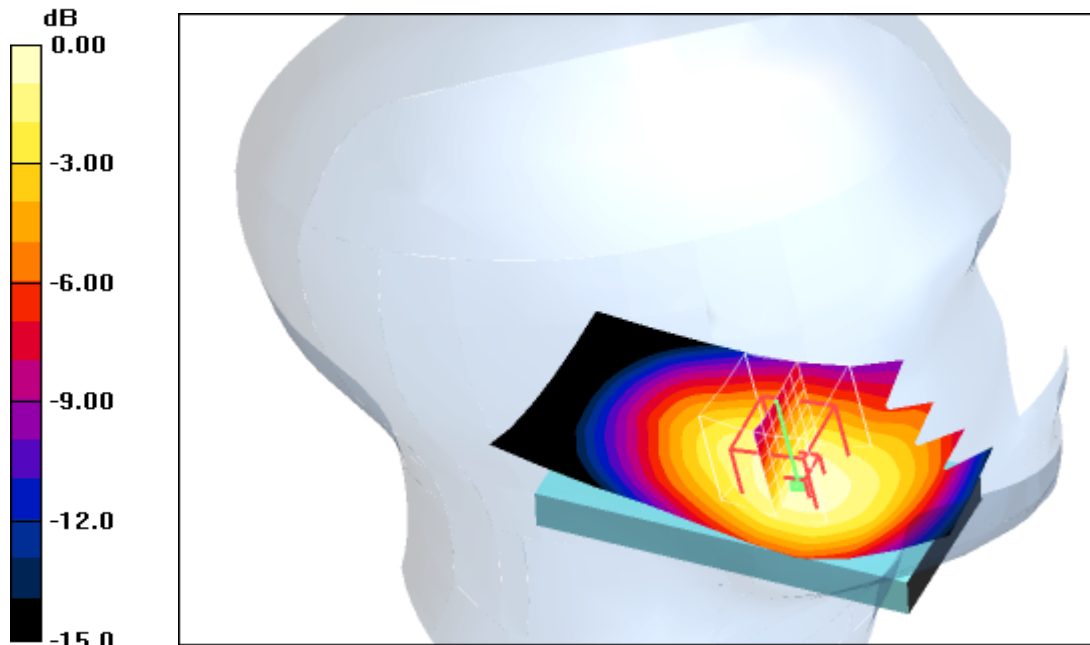
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.2 V/m; Power Drift = 0.058 dB

Peak SAR (extrapolated) = 0.972 W/kg

SAR(1 g) = 0.719 mW/g; SAR(10 g) = 0.502 mW/g

Maximum value of SAR (measured) = 0.779 mW/g



0 dB = 0.779mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 12:13:00 Date/Time: 2010-03-09 12:19:26

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.21 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

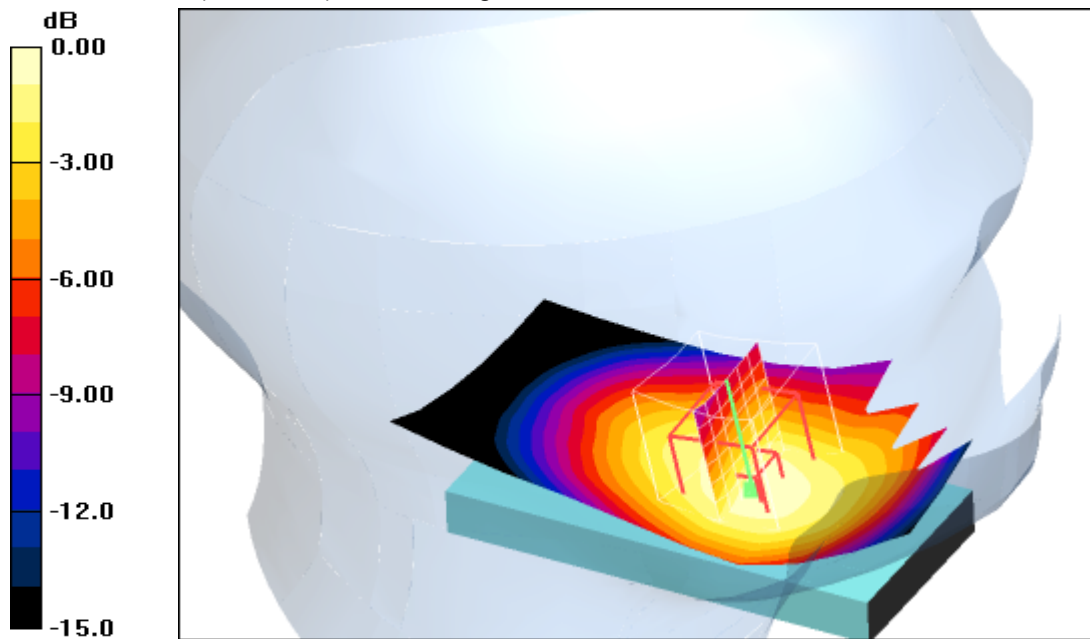
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 38.3 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 1.54 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.784 mW/g

Maximum value of SAR (measured) = 1.21 mW/g



0 dB = 1.21mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 11:50:34 Date/Time: 2010-03-09 11:58:08

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.09 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

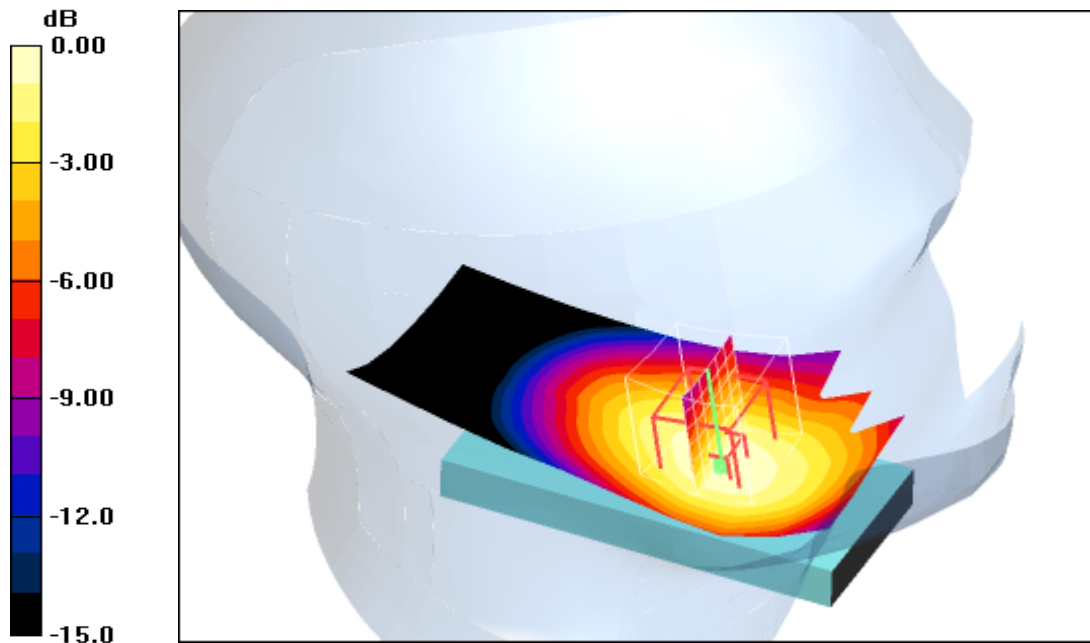
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 35.7 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.699 mW/g

Maximum value of SAR (measured) = 1.08 mW/g



0 dB = 1.08mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 12:56:02 Date/Time: 2010-03-09 13:02:48

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.390 mW/g

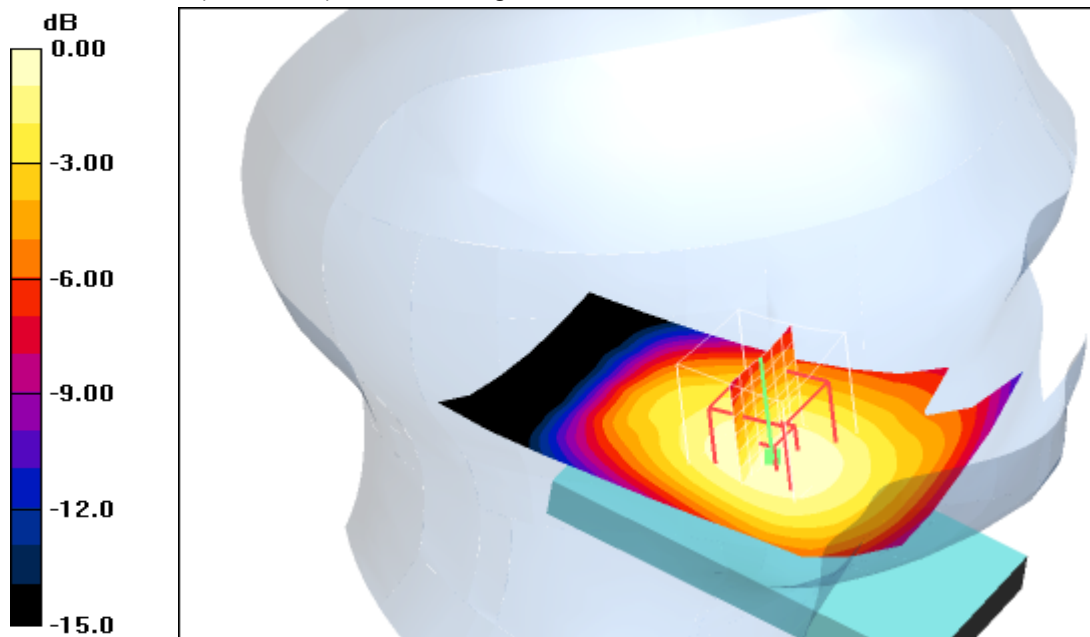
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 20.9 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 0.456 W/kg

SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.273 mW/g

Maximum value of SAR (measured) = 0.385 mW/g



0 dB = 0.385mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 13:16:54 Date/Time: 2010-03-09 13:23:40

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.558 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

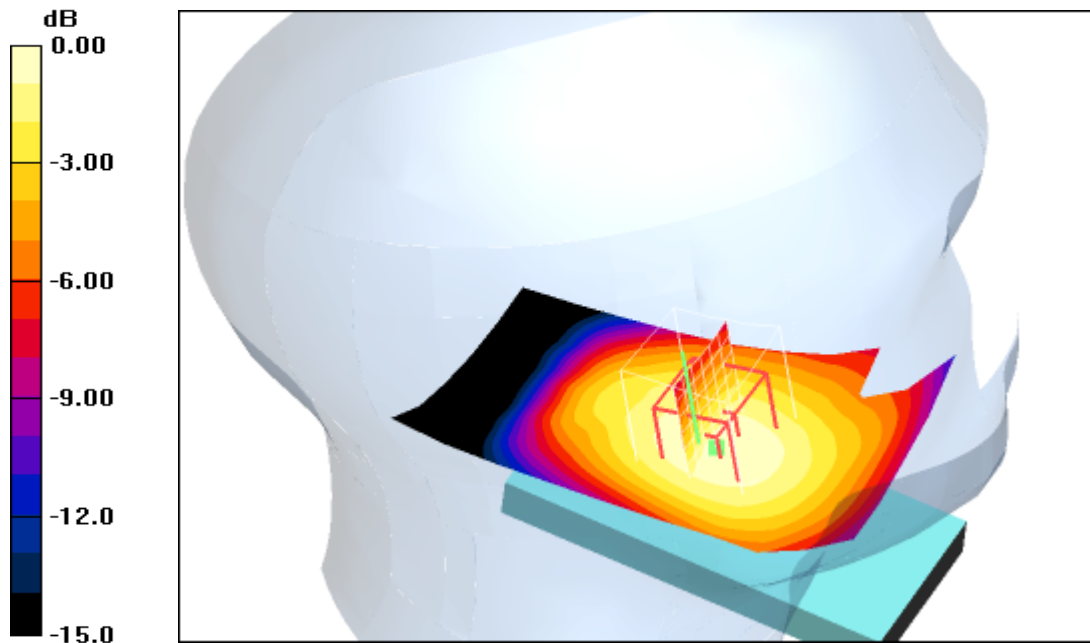
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.0 V/m; Power Drift = 0.106 dB

Peak SAR (extrapolated) = 0.665 W/kg

SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.395 mW/g

Maximum value of SAR (measured) = 0.560 mW/g



0 dB = 0.560mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 13:37:28 Date/Time: 2010-03-09 13:44:11

IEEE1528_OET65-LeftHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.520 mW/g

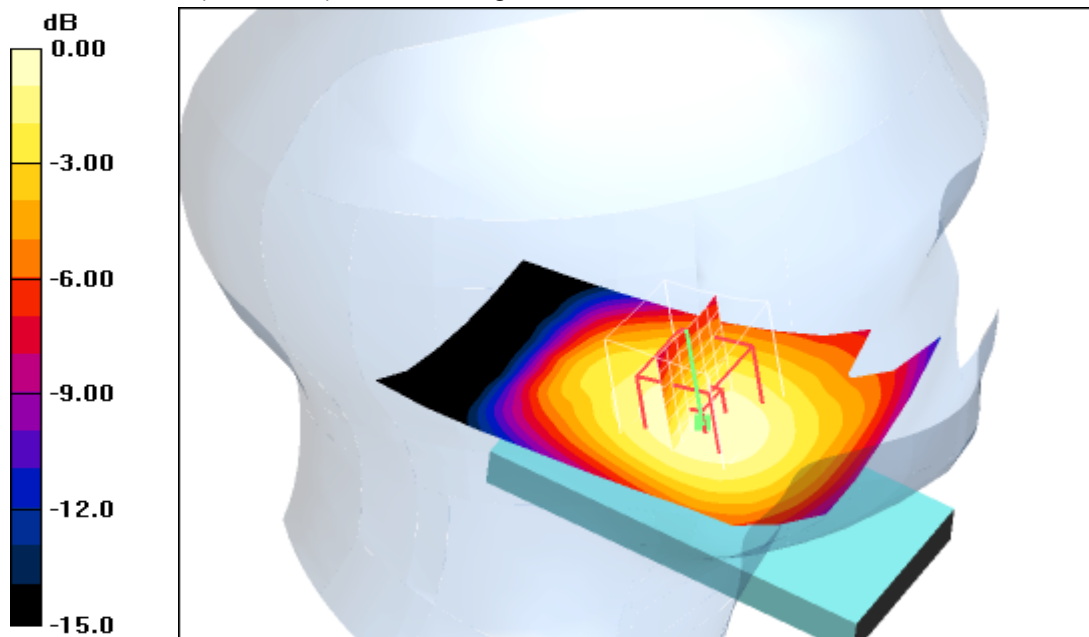
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.3 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.613 W/kg

SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.362 mW/g

Maximum value of SAR (measured) = 0.515 mW/g



0 dB = 0.515mW/g

Additional information:

ambient temperature: 22.6°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 10:43:43 Date/Time: 2010-03-09 10:50:53

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.842 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

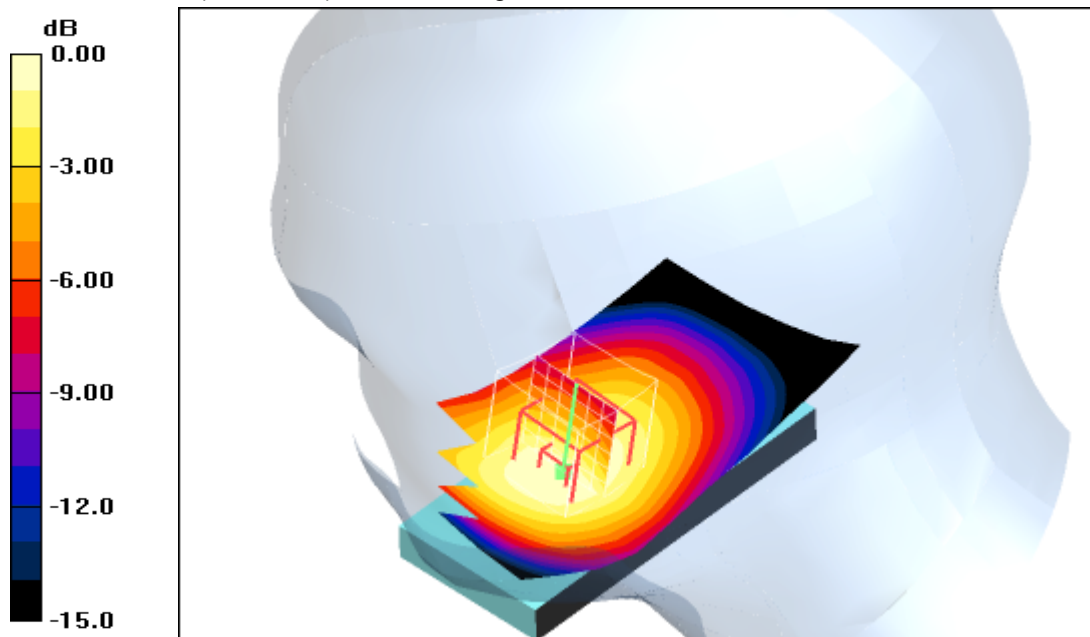
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.6 V/m; Power Drift = -0.087 dB

Peak SAR (extrapolated) = 0.988 W/kg

SAR(1 g) = 0.773 mW/g; SAR(10 g) = 0.560 mW/g

Maximum value of SAR (measured) = 0.826 mW/g



0 dB = 0.826mW/g

Additional information:

ambient temperature: 22.9°C; liquid temperature: 21.9°C

Date/Time: 2010-03-09 11:05:36 Date/Time: 2010-03-09 11:11:53

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.13 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

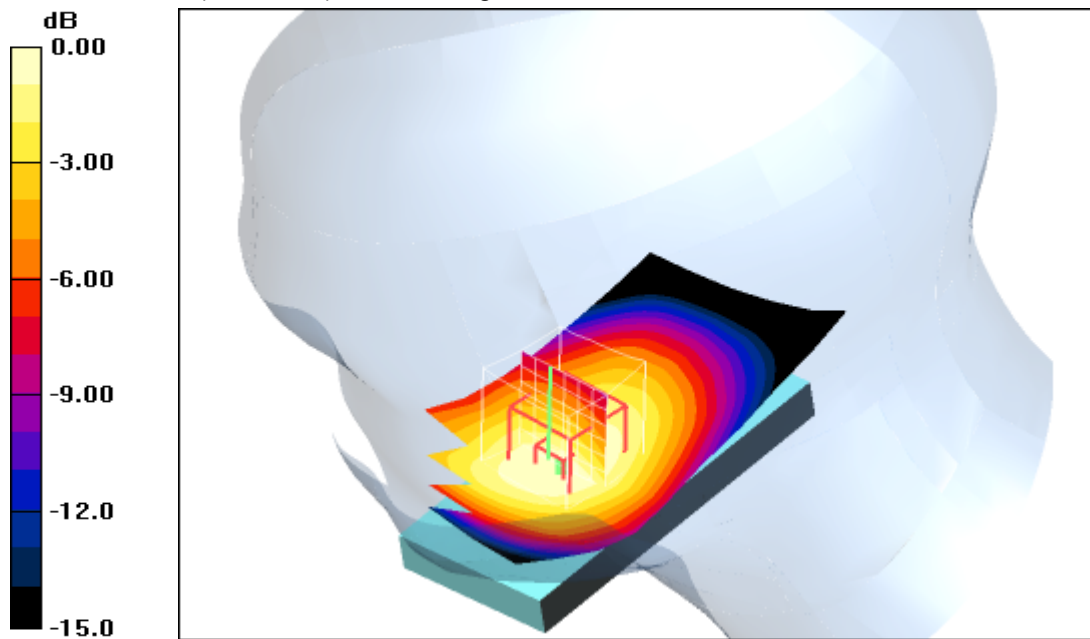
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 35.8 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.757 mW/g

Maximum value of SAR (measured) = 1.10 mW/g



0 dB = 1.10mW/g

Additional information:

ambient temperature: 22.9°C; liquid temperature: 21.9°C

Date/Time: 2010-03-09 11:26:51 Date/Time: 2010-03-09 11:33:10

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.02 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

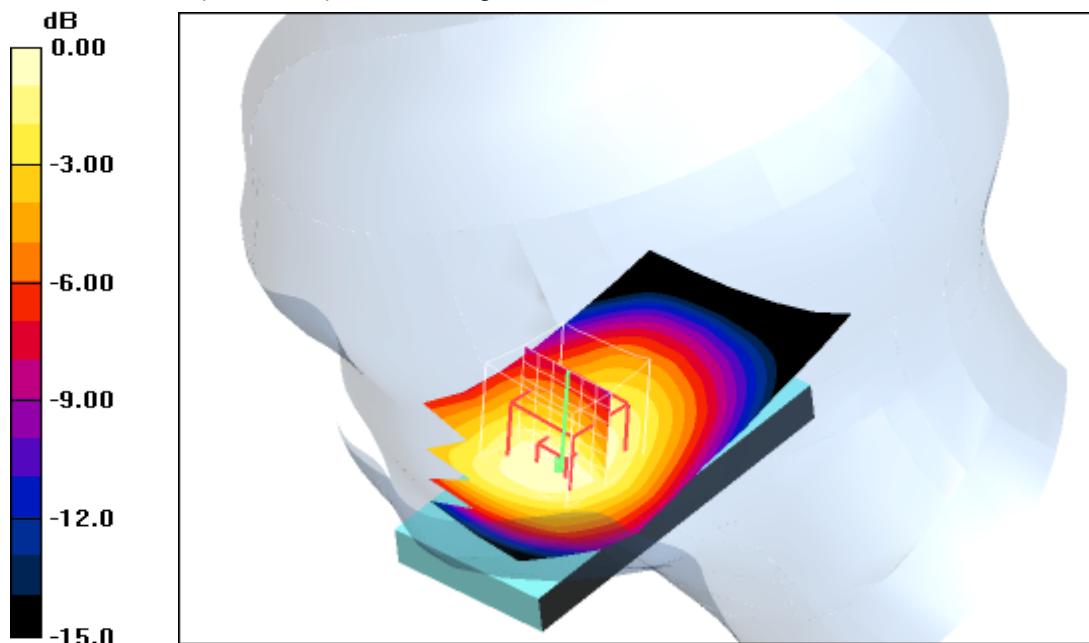
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.8 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.681 mW/g

Maximum value of SAR (measured) = 1.01 mW/g



0 dB = 1.01mW/g

Additional information:

ambient temperature: 22.9°C; liquid temperature: 21.9°C

Date/Time: 2010-03-09 09:11:12 Date/Time: 2010-03-09 09:19:30

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.389 mW/g

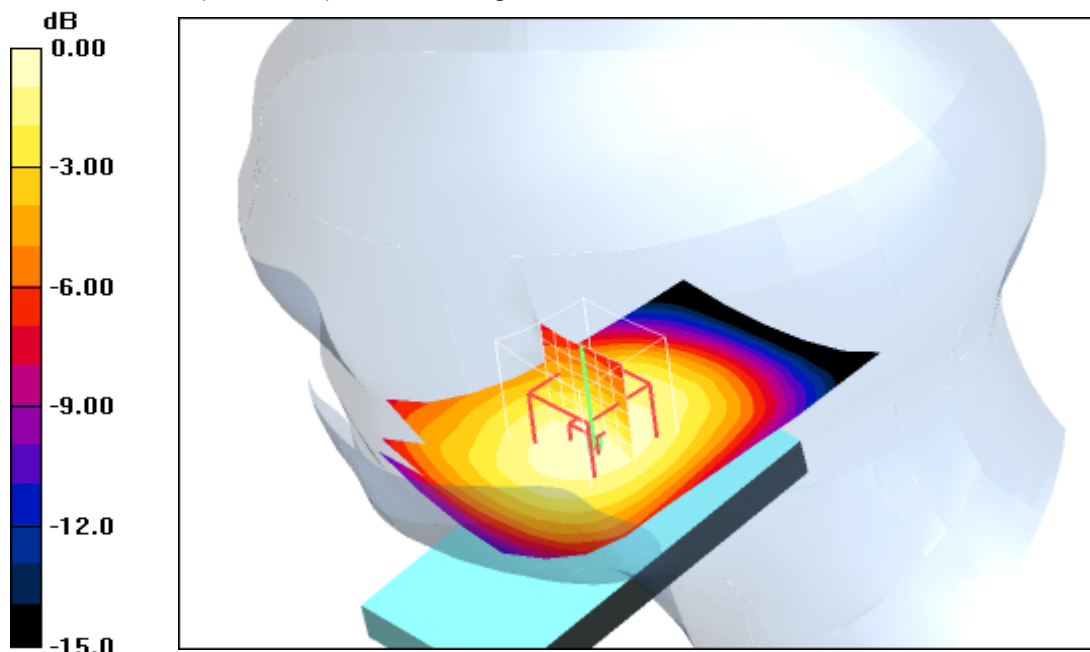
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.5 V/m; Power Drift = 0.080 dB

Peak SAR (extrapolated) = 0.461 W/kg

SAR(1 g) = 0.372 mW/g; SAR(10 g) = 0.276 mW/g

Maximum value of SAR (measured) = 0.392 mW/g



Additional information:

ambient temperature: 22.9°C; liquid temperature: 21.9°C

Date/Time: 2010-03-09 09:33:45 Date/Time: 2010-03-09 09:41:10

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.572 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

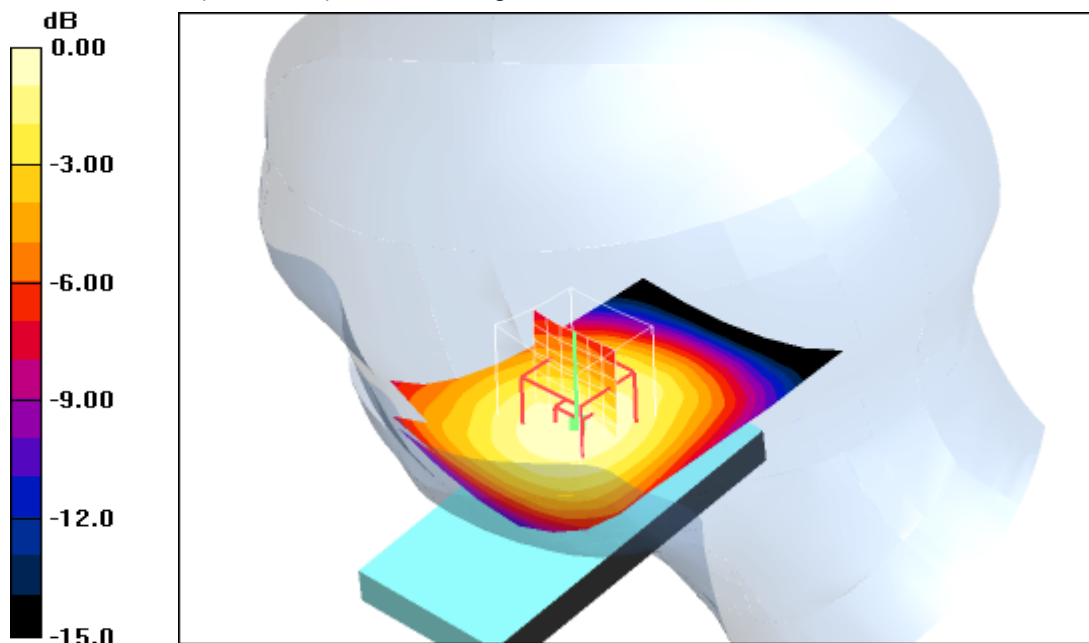
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.9 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.658 W/kg

SAR(1 g) = 0.531 mW/g; SAR(10 g) = 0.393 mW/g

Maximum value of SAR (measured) = 0.560 mW/g



0 dB = 0.560mW/g

Additional information:

ambient temperature: 22.9°C; liquid temperature: 21.9°C

Date/Time: 2010-03-09 09:54:09 Date/Time: 2010-03-09 10:00:41

IEEE1528_OET65-RightHandSide-GSM850

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8

Medium: HSL850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.497 mW/g

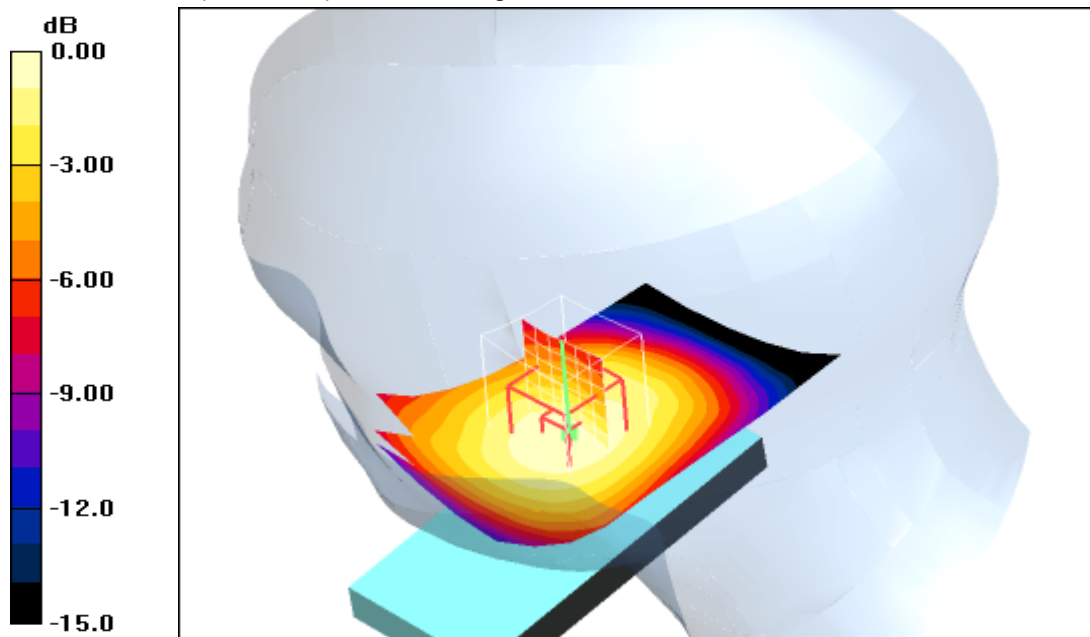
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.1 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.573 W/kg

SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.341 mW/g

Maximum value of SAR (measured) = 0.490 mW/g



0 dB = 0.490mW/g

Additional information:

ambient temperature: 22.9°C; liquid temperature: 21.9°C

Annex B.2: GSM 850 MHz body

Date/Time: 2010-03-10 08:36:21 Date/Time: 2010-03-10 08:43:18

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850 GPRS 2TS; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.550 mW/g

Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

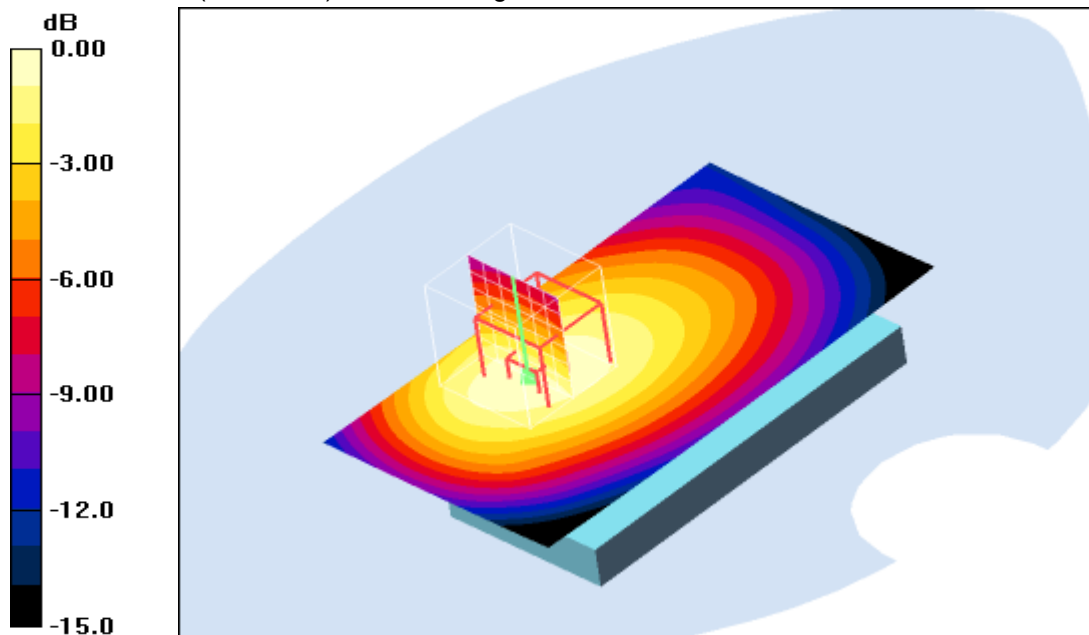
dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.3 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 0.709 W/kg

SAR(1 g) = 0.531 mW/g; SAR(10 g) = 0.377 mW/g

Maximum value of SAR (measured) = 0.568 mW/g



0 dB = 0.568mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.4°C; liquid temperature: 21.0°C

Date/Time: 2010-03-10 08:56:37 Date/Time: 2010-03-10 09:03:01

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850 GPRS 2TS; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.534 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

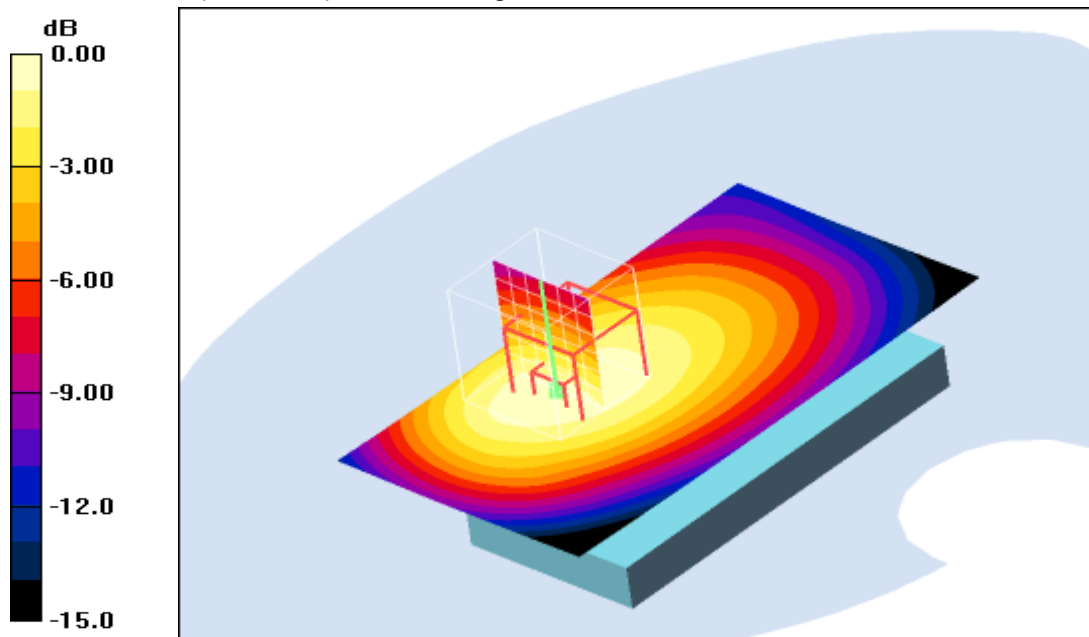
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.5 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 0.682 W/kg

SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.358 mW/g

Maximum value of SAR (measured) = 0.540 mW/g



0 dB = 0.540mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.4°C; liquid temperature: 21.0°C

Date/Time: 2010-03-10 09:16:25 Date/Time: 2010-03-10 09:22:51

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850 GPRS 2TS; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.451 mW/g

Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

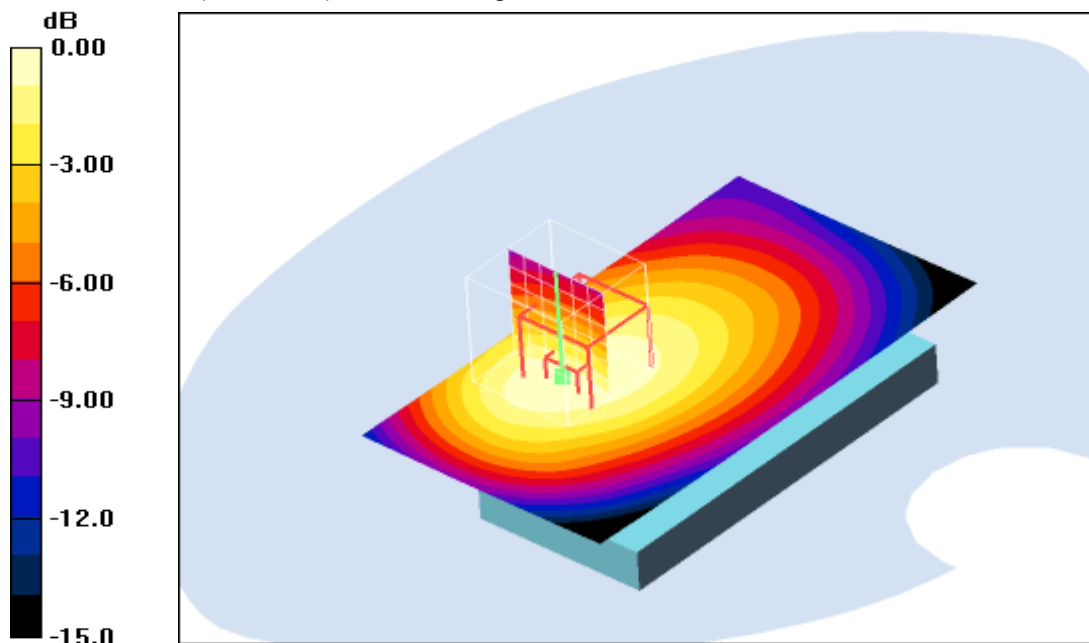
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.8 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.581 W/kg

SAR(1 g) = 0.425 mW/g; SAR(10 g) = 0.299 mW/g

Maximum value of SAR (measured) = 0.451 mW/g



0 dB = 0.451mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.4°C; liquid temperature: 21.0°C

Date/Time: 2010-03-10 13:30:29 Date/Time: 2010-03-10 13:37:01

IEEE1528_OET65-Body-GSM850 GPRS 2TS**DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK**

Communication System: GSM 850 GPRS 2TS; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.869 mW/g

Rear position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

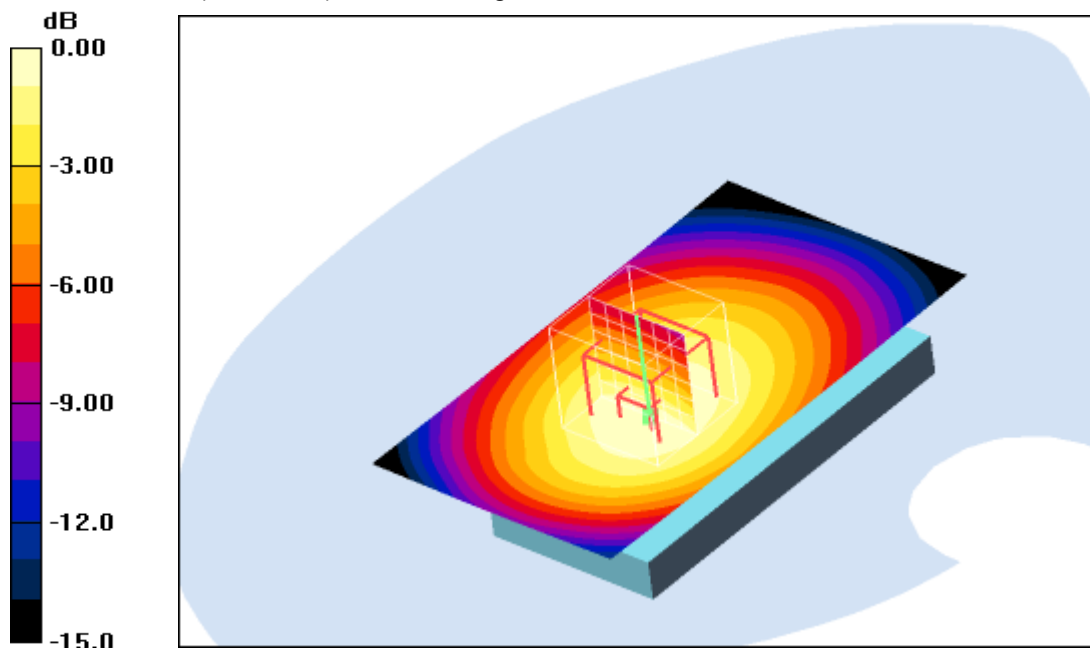
dx=5mm, dy=5mm, dz=5mm

Reference Value = 30.9 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.821 mW/g; SAR(10 g) = 0.589 mW/g

Maximum value of SAR (measured) = 0.868 mW/g



0 dB = 0.868mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.6°C; liquid temperature: 21.1°C

Date/Time: 2010-03-10 13:09:20 Date/Time: 2010-03-10 13:15:53

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850 GPRS 2TS; Frequency: 836.6 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.791 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

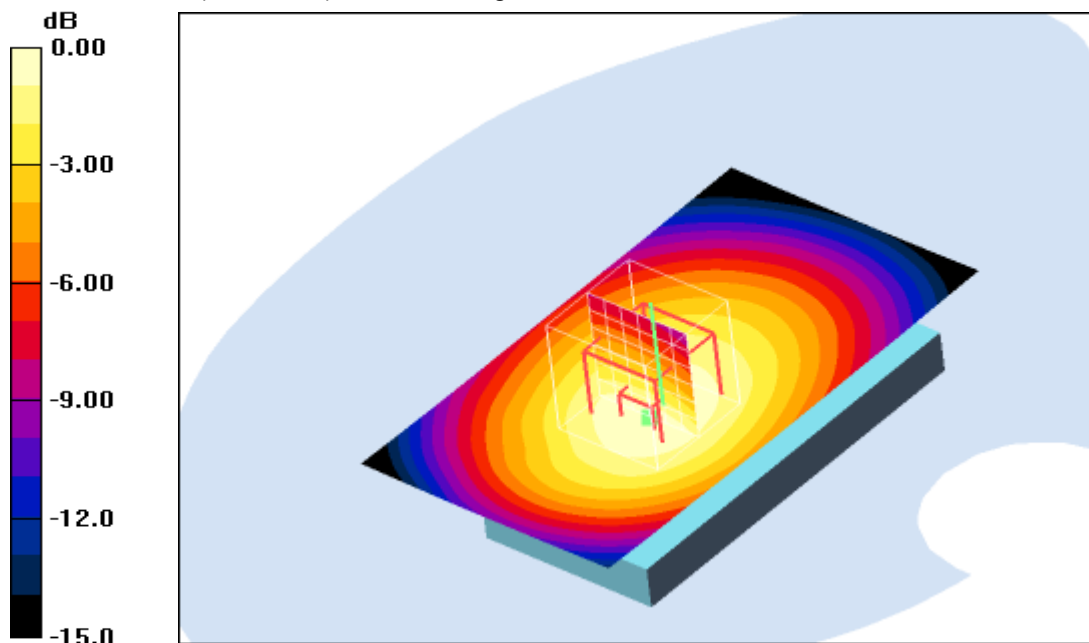
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.0 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 0.989 W/kg

SAR(1 g) = 0.752 mW/g; SAR(10 g) = 0.537 mW/g

Maximum value of SAR (measured) = 0.798 mW/g



0 dB = 0.798mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.6°C; liquid temperature: 21.1°C

Date/Time: 2010-03-10 12:48:30 Date/Time: 2010-03-10 12:54:59

IEEE1528_OET65-Body-GSM850 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850 GPRS 2TS; Frequency: 848.8 MHz; Duty Cycle: 1:4

Medium: M850 Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.731 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

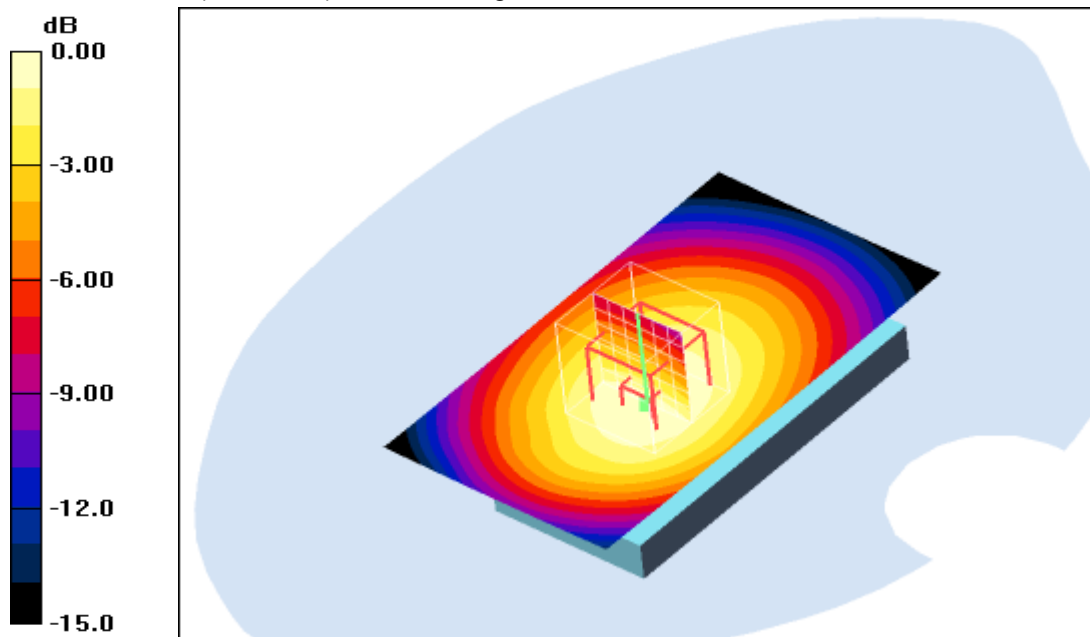
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 28.5 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 0.914 W/kg

SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.487 mW/g

Maximum value of SAR (measured) = 0.721 mW/g



0 dB = 0.721mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.6°C; liquid temperature: 21.1°C

Date/Time: 2010-03-10 13:52:22 Date/Time: 2010-03-10 13:59:14

IEEE1528_OET65-Body-GSM850 GPRS 1TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8

Medium: M850 Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.574 mW/g

Rear position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

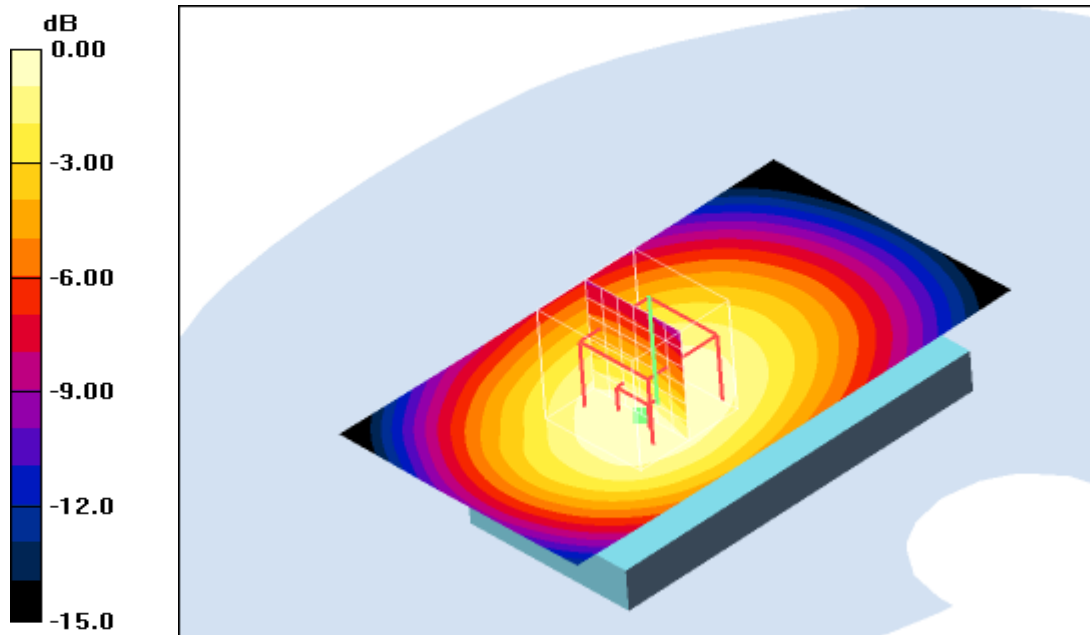
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.9 V/m; Power Drift = 0.047 dB

Peak SAR (extrapolated) = 0.668 W/kg

SAR(1 g) = 0.500 mW/g; SAR(10 g) = 0.355 mW/g

Maximum value of SAR (measured) = 0.527 mW/g



0 dB = 0.527mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.6°C; liquid temperature: 21.1°C

Annex B.3: GSM 1900 MHz head

Date/Time: 2010-03-06 11:42:12 Date/Time: 2010-03-06 11:48:34

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

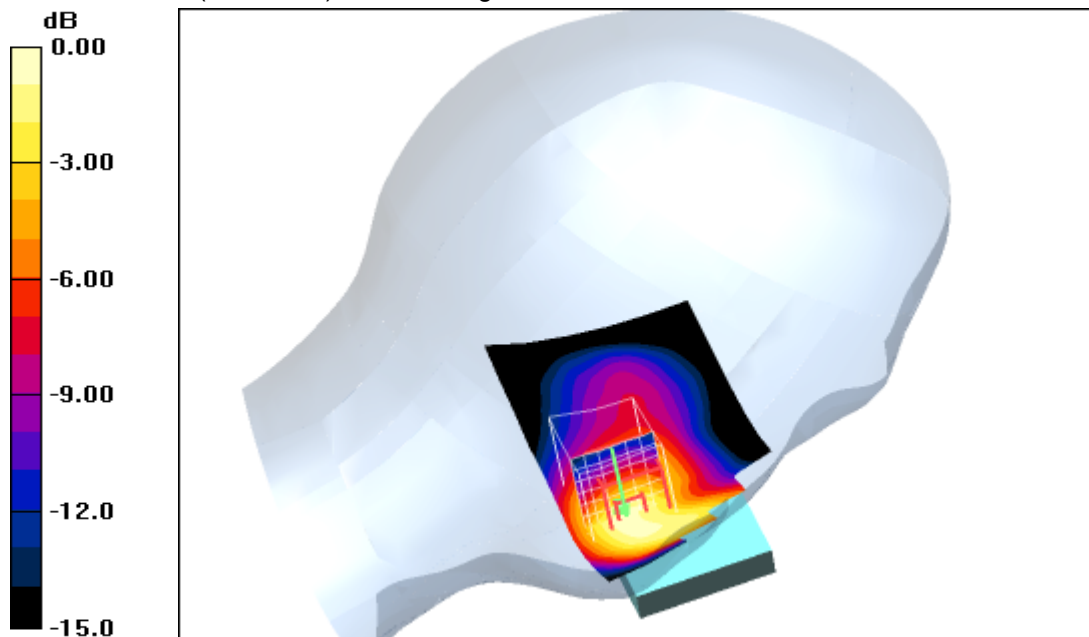
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 1.14 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 28.1 V/m; Power Drift = -0.063 dB
 Peak SAR (extrapolated) = 1.67 W/kg
SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.680 mW/g
 Maximum value of SAR (measured) = 1.24 mW/g



0 dB = 1.24mW/g

Additional information:

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 12:04:06 Date/Time: 2010-03-06 12:11:59

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.934 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

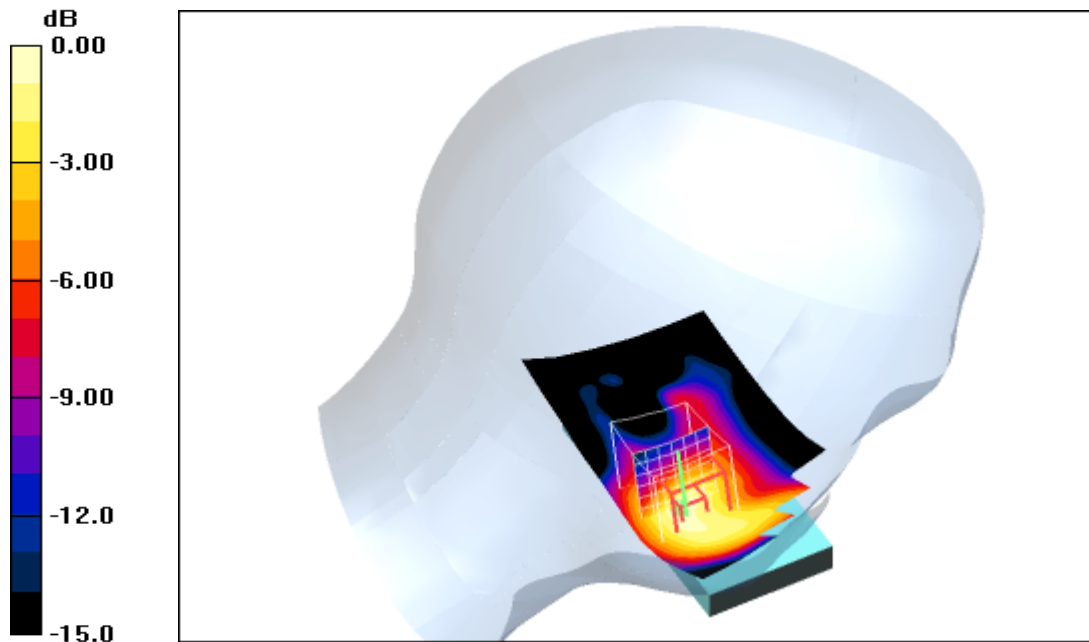
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.8 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.956 mW/g; SAR(10 g) = 0.565 mW/g

Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g

Additional information:

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 12:27:08 Date/Time: 2010-03-06 12:33:31

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.932 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

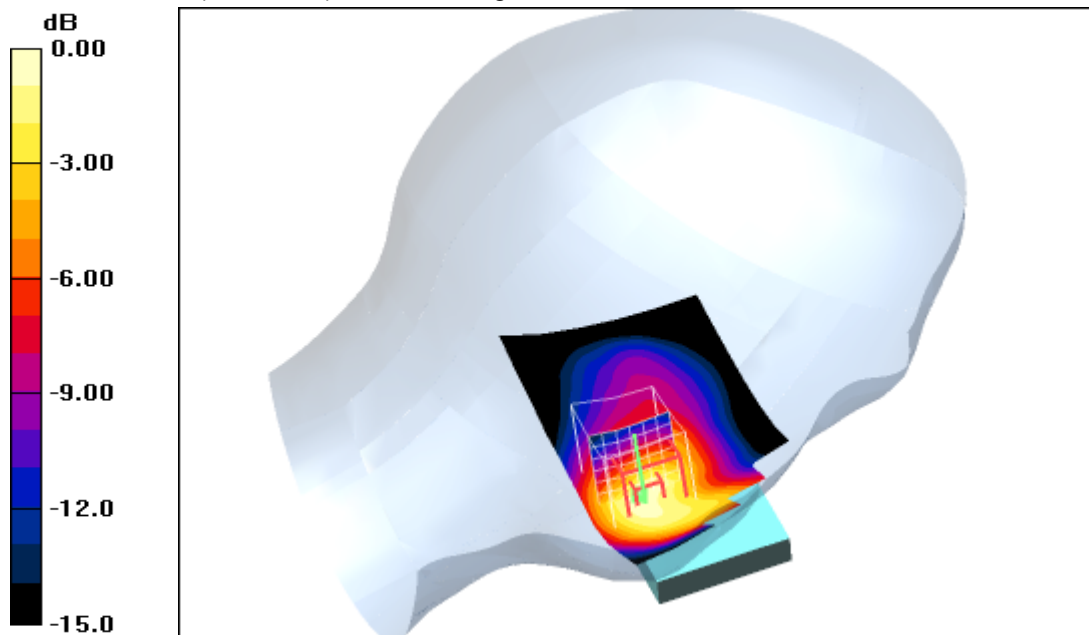
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.2 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.912 mW/g; SAR(10 g) = 0.536 mW/g

Maximum value of SAR (measured) = 0.982 mW/g



0 dB = 0.982mW/g

Additional information:

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 13:36:34 Date/Time: 2010-03-06 13:43:18

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.378 mW/g

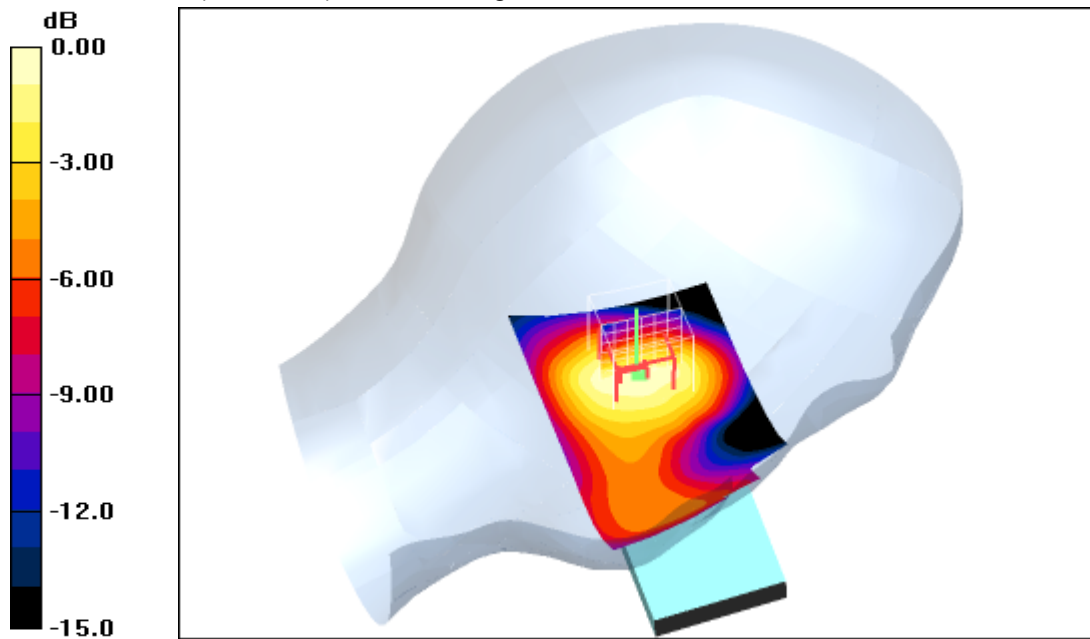
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.4 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 0.462 W/kg

SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.202 mW/g

Maximum value of SAR (measured) = 0.339 mW/g



0 dB = 0.339mW/g

Additional information:

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 13:16:09 Date/Time: 2010-03-06 13:22:51

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

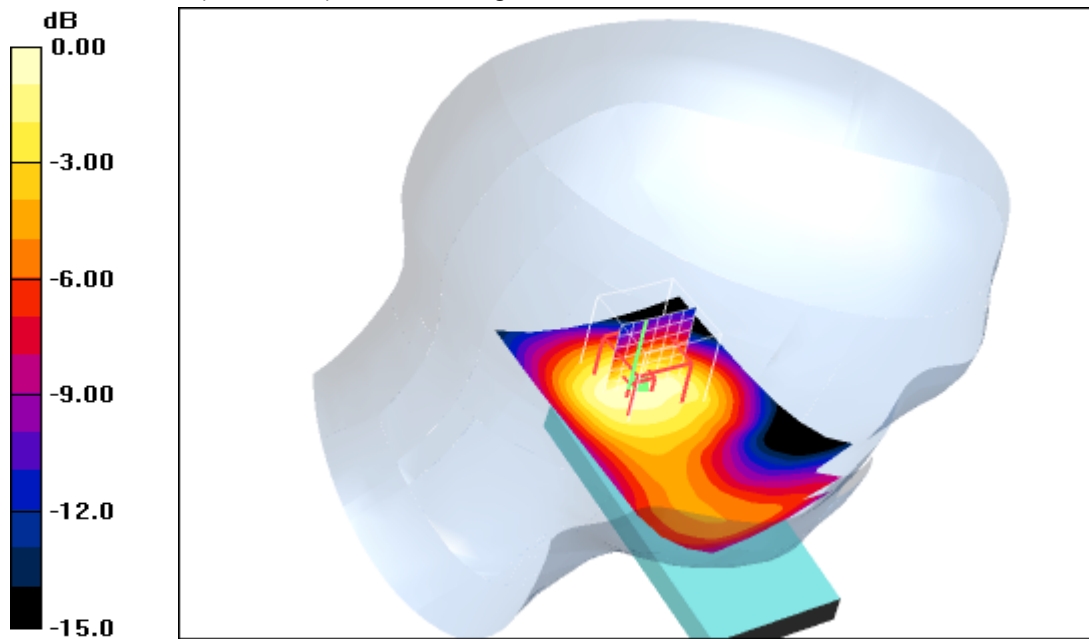
Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.290 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 14.5 V/m; Power Drift = -0.00 dB
 Peak SAR (extrapolated) = 0.365 W/kg
SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.155 mW/g
 Maximum value of SAR (measured) = 0.265 mW/g



Additional information:

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 12:49:13 Date/Time: 2010-03-06 12:55:53

IEEE1528_OET65-LeftHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.242 mW/g

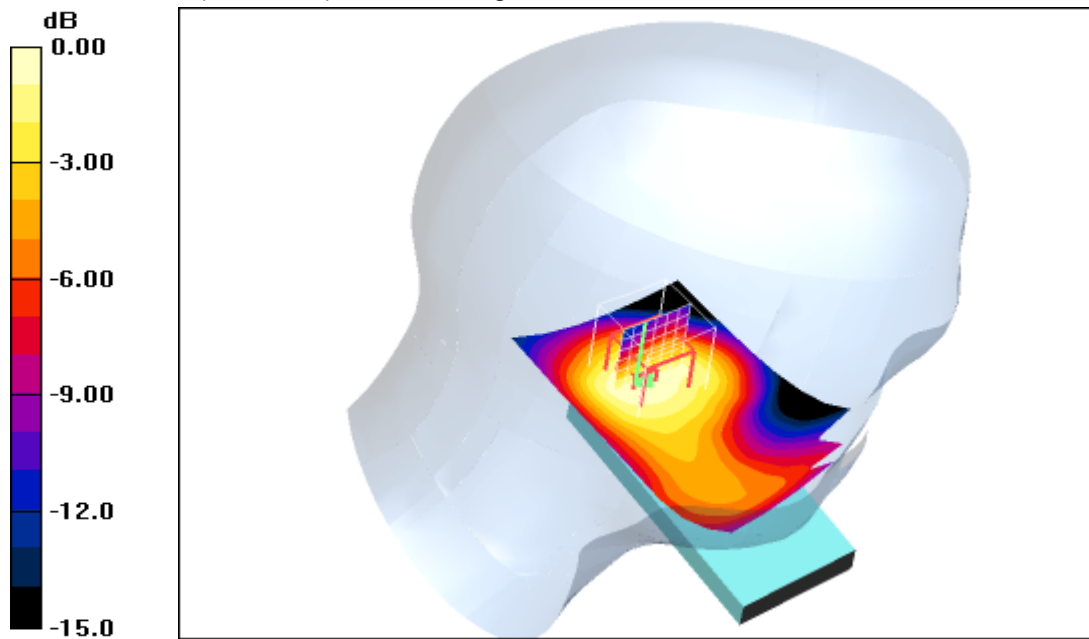
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.3 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.205 mW/g; SAR(10 g) = 0.131 mW/g

Maximum value of SAR (measured) = 0.222 mW/g



0 dB = 0.222mW/g

Additional information:

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 14:01:45 Date/Time: 2010-03-06 14:08:24 Date/Time: 2010-03-06 14:20:56

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

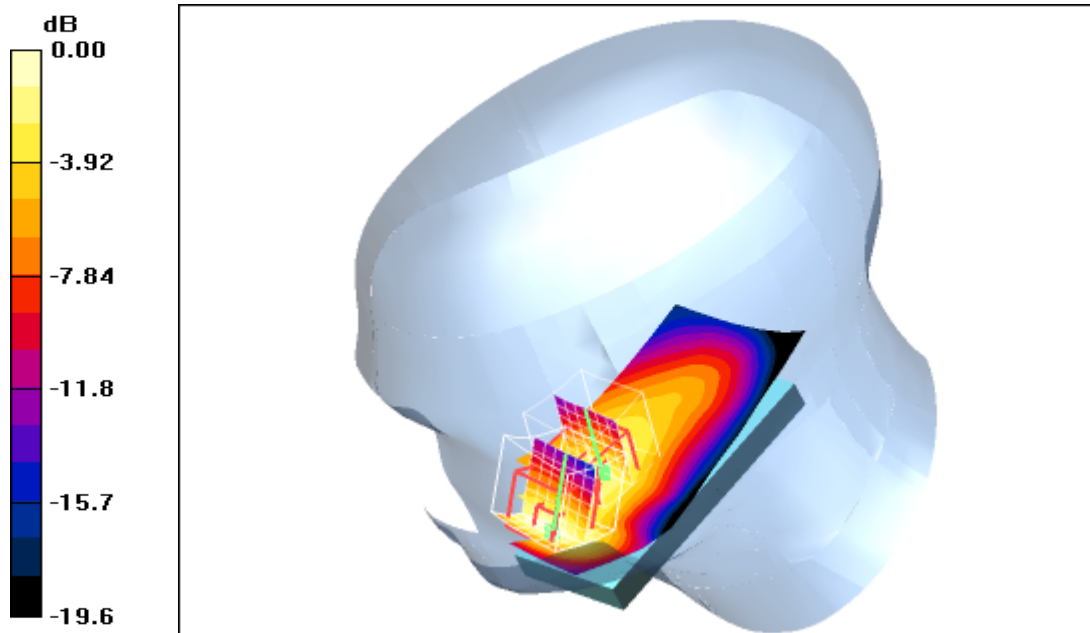
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.543 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 19.2 V/m; Power Drift = -0.00 dB
 Peak SAR (extrapolated) = 0.946 W/kg
SAR(1 g) = 0.547 mW/g; SAR(10 g) = 0.295 mW/g
 Maximum value of SAR (measured) = 0.605 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 19.2 V/m; Power Drift = -0.00 dB
 Peak SAR (extrapolated) = 0.595 W/kg
SAR(1 g) = 0.409 mW/g; SAR(10 g) = 0.270 mW/g
 Maximum value of SAR (measured) = 0.443 mW/g



0 dB = 0.605mW/g

Additional information:

ambient temperature: °C; liquid temperature: °C

Date/Time: 2010-03-06 14:36:06 Date/Time: 2010-03-06 14:42:29 Date/Time: 2010-03-06 14:55:03

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

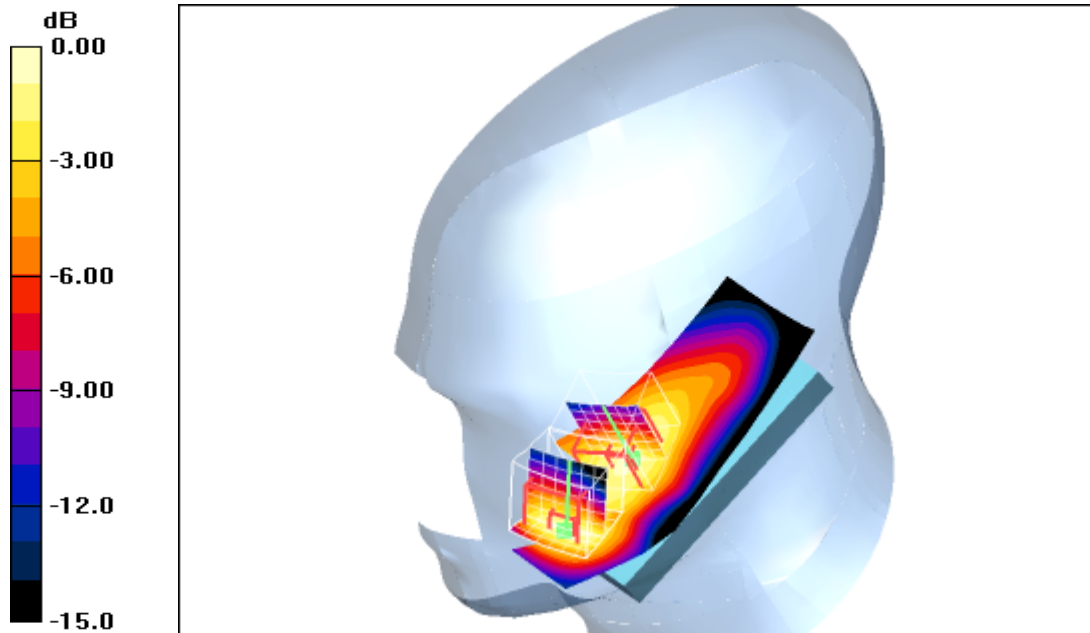
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.397 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 17.1 V/m; Power Drift = 0.015 dB
 Peak SAR (extrapolated) = 0.691 W/kg
SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.218 mW/g
 Maximum value of SAR (measured) = 0.442 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 17.1 V/m; Power Drift = 0.015 dB
 Peak SAR (extrapolated) = 0.524 W/kg
SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.231 mW/g
 Maximum value of SAR (measured) = 0.382 mW/g



0 dB = 0.442mW/g

Additional information:

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 15:10:44 Date/Time: 2010-03-06 15:17:06 Date/Time: 2010-03-06 15:29:23

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

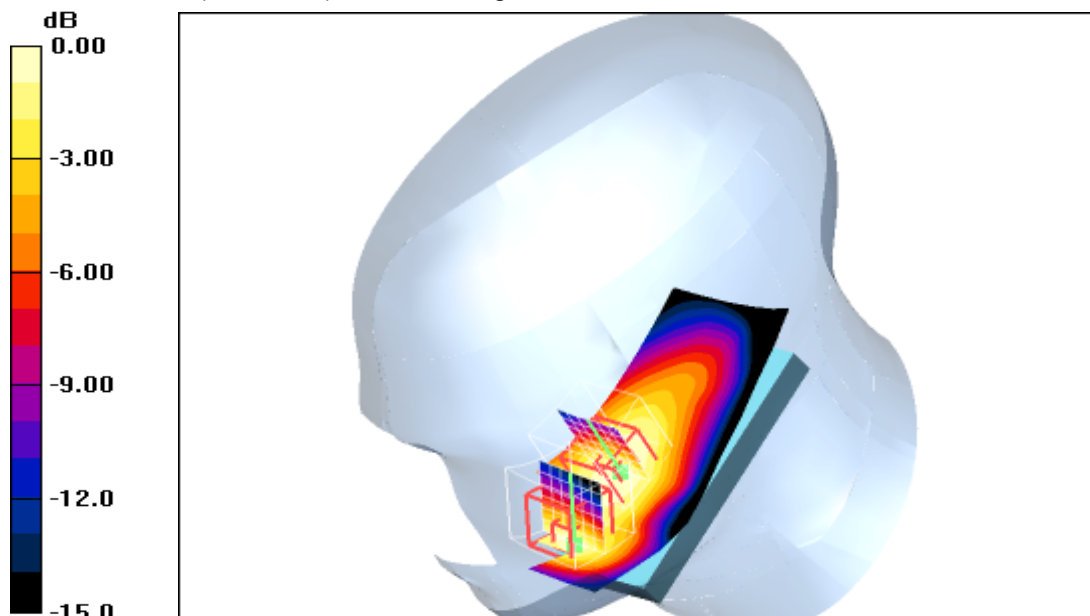
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.354 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 16.5 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 0.498 W/kg
SAR(1 g) = 0.332 mW/g; SAR(10 g) = 0.212 mW/g
 Maximum value of SAR (measured) = 0.361 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 16.5 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 0.559 W/kg
SAR(1 g) = 0.317 mW/g; SAR(10 g) = 0.173 mW/g
 Maximum value of SAR (measured) = 0.349 mW/g



Additional information:
 ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 15:49:33 Date/Time: 2010-03-06 15:56:11

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.400 mW/g

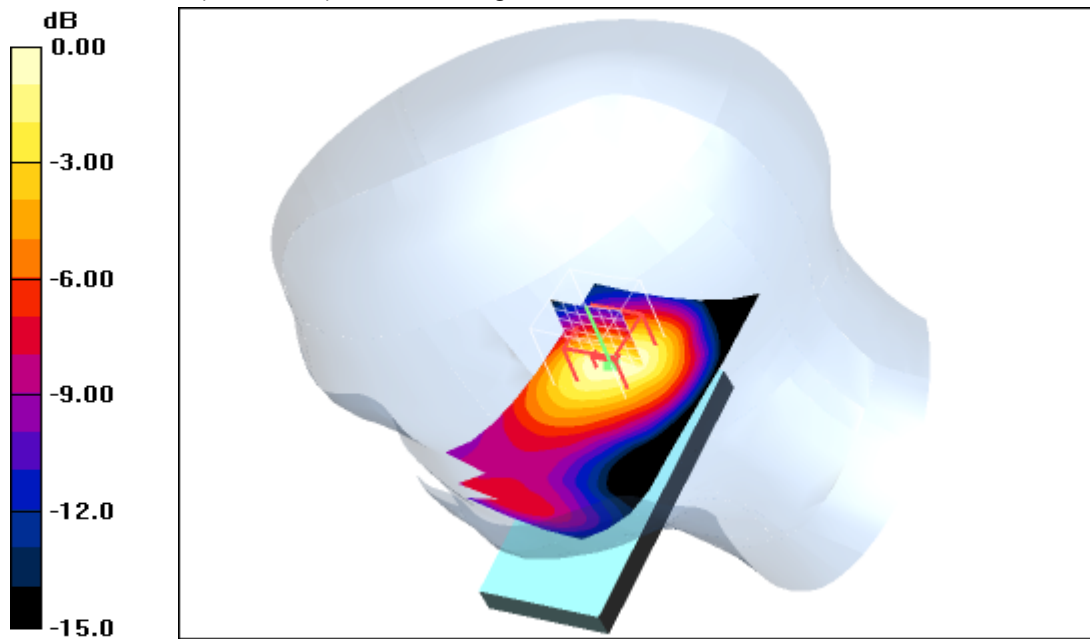
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.4 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.532 W/kg

SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.211 mW/g

Maximum value of SAR (measured) = 0.381 mW/g



0 dB = 0.381mW/g

Additional information:

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 16:10:25 Date/Time: 2010-03-06 16:17:06

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

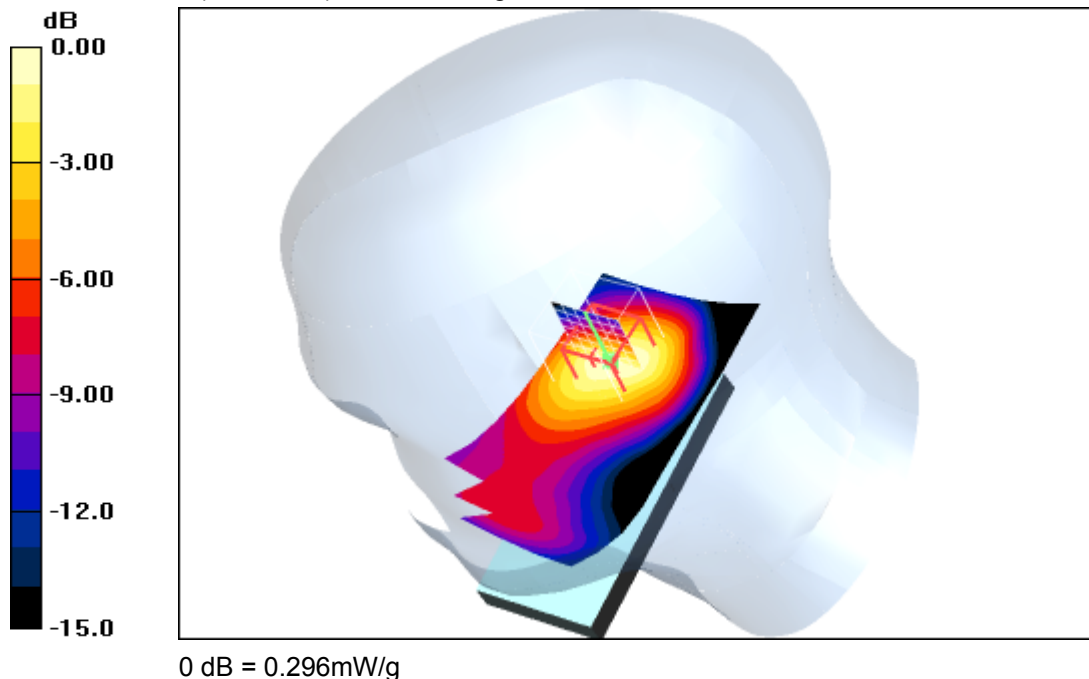
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.308 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 15.1 V/m; Power Drift = -0.022 dB
 Peak SAR (extrapolated) = 0.426 W/kg
SAR(1 g) = 0.269 mW/g; SAR(10 g) = 0.161 mW/g
 Maximum value of SAR (measured) = 0.296 mW/g



Additional information:

position or distance of DUT to SAM (if not standard head positions) :
 ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 16:31:19 Date/Time: 2010-03-06 16:38:11

IEEE1528_OET65-RightHandSide-GSM1900

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8

Medium: HSL1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.275 mW/g

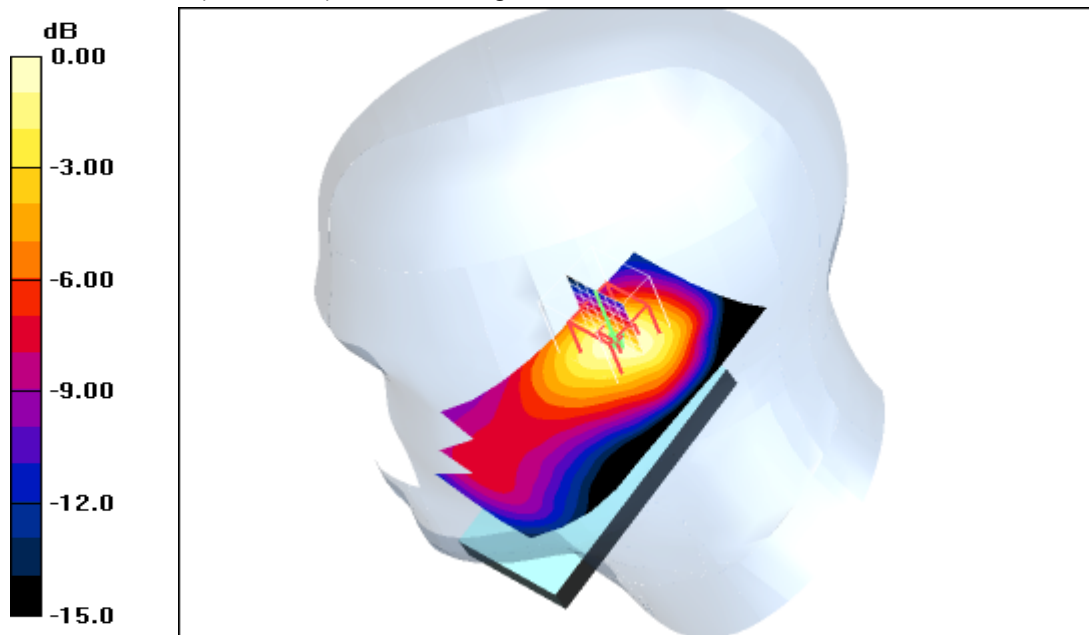
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.8 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 0.380 W/kg

SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.139 mW/g

Maximum value of SAR (measured) = 0.256 mW/g



0 dB = 0.256mW/g

Additional information:

position or distance of DUT to SAM (if not standard head positions) :

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Annex B.4: GSM 1900 MHz body

Date/Time: 2010-03-11 07:56:07 Date/Time: 2010-03-11 08:02:30

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900 GPRS 2TS; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

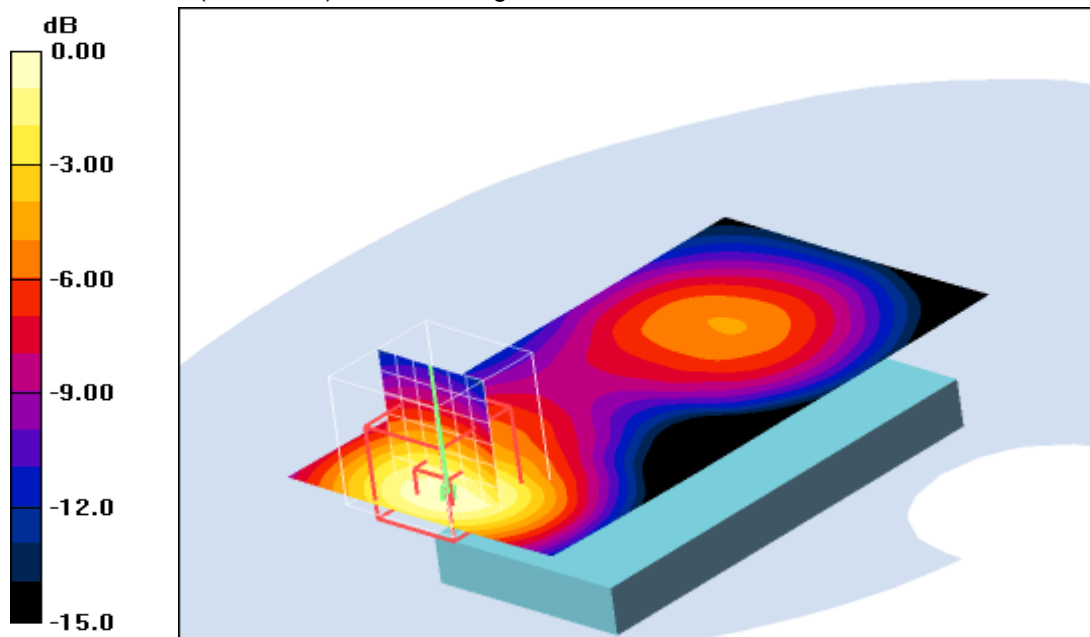
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.550 mW/g

Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 20.4 V/m; Power Drift = -0.080 dB
 Peak SAR (extrapolated) = 0.683 W/kg
SAR(1 g) = 0.486 mW/g; SAR(10 g) = 0.291 mW/g
 Maximum value of SAR (measured) = 0.538 mW/g



0 dB = 0.538mW/g

Additional information:

position or distance of DUT to SAM : 15 mm
 ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-11 08:21:35 Date/Time: 2010-03-11 08:27:57

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900 GPRS 2TS; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.377 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

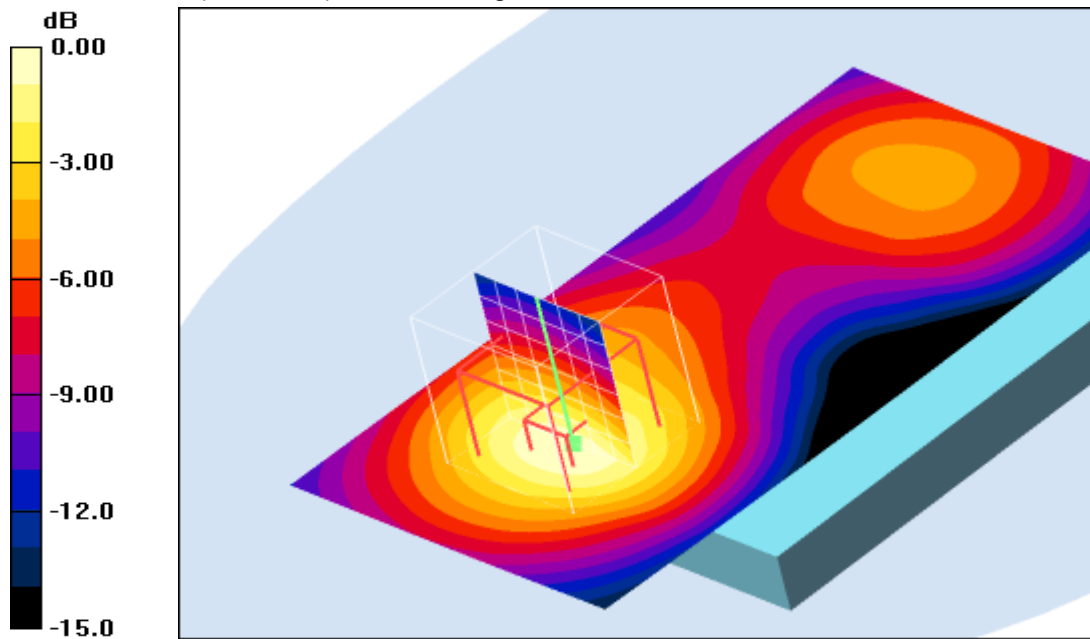
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.2 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.498 W/kg

SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.209 mW/g

Maximum value of SAR (measured) = 0.389 mW/g



0 dB = 0.389mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-11 08:47:14 Date/Time: 2010-03-11 08:53:42

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900 GPRS 2TS; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.284 mW/g

Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

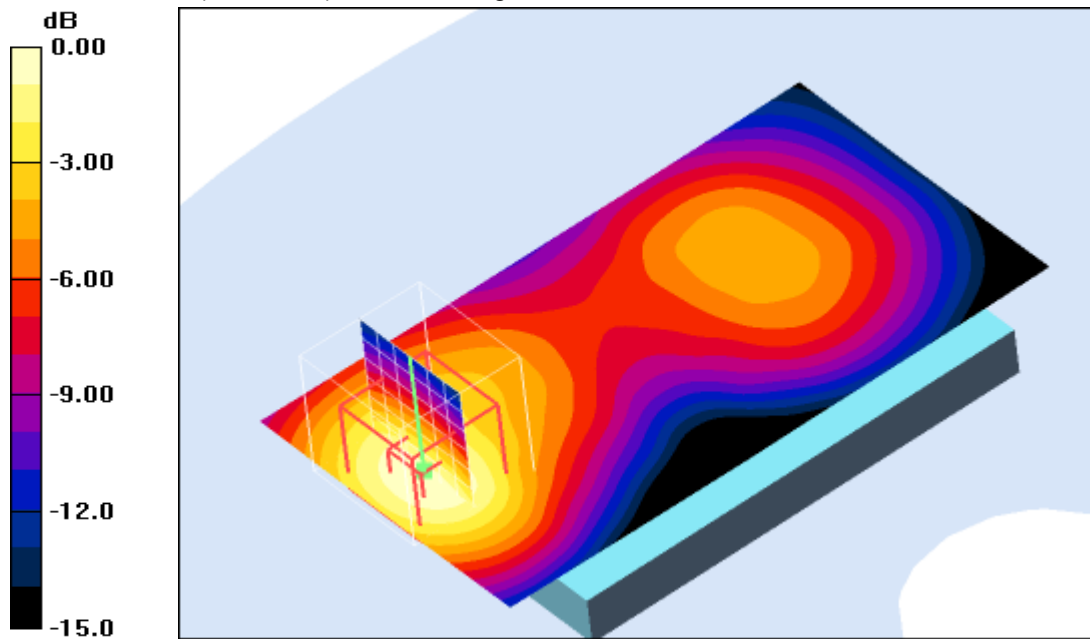
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.373 W/kg

SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.154 mW/g

Maximum value of SAR (measured) = 0.287 mW/g



0 dB = 0.287mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-11 10:00:57 Date/Time: 2010-03-11 10:07:33

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900 GPRS 2TS; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

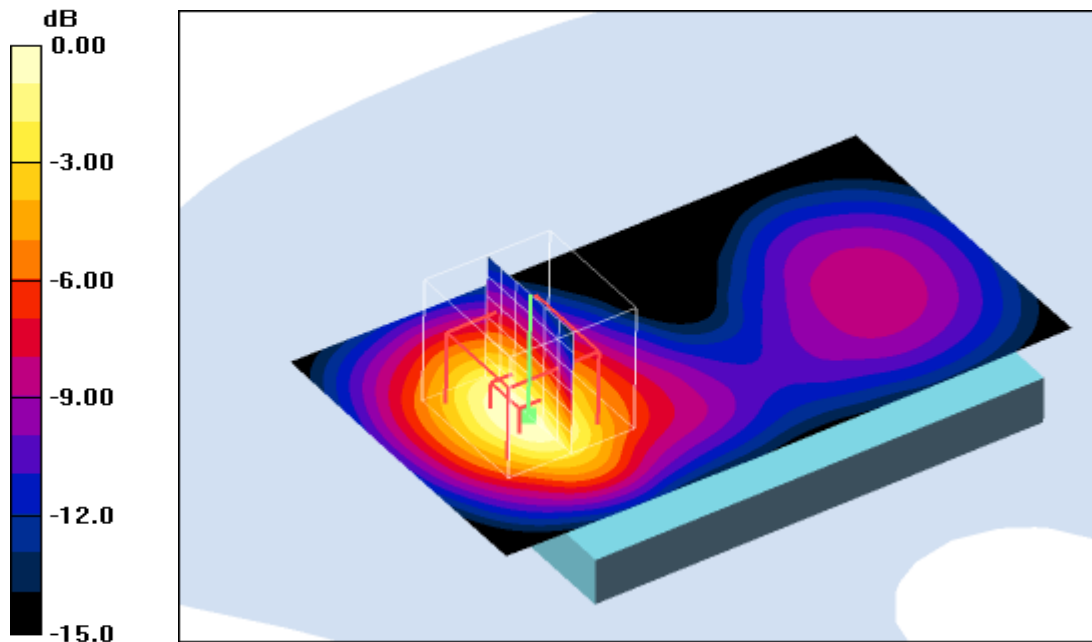
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 1.22 mW/g

Rear position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 29.3 V/m; Power Drift = 0.011 dB
 Peak SAR (extrapolated) = 1.54 W/kg
SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.586 mW/g
 Maximum value of SAR (measured) = 1.17 mW/g



0 dB = 1.17mW/g

Additional information:

position or distance of DUT to SAM : 15 mm
 ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-11 09:39:02 Date/Time: 2010-03-11 09:45:42

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900 GPRS 2TS; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

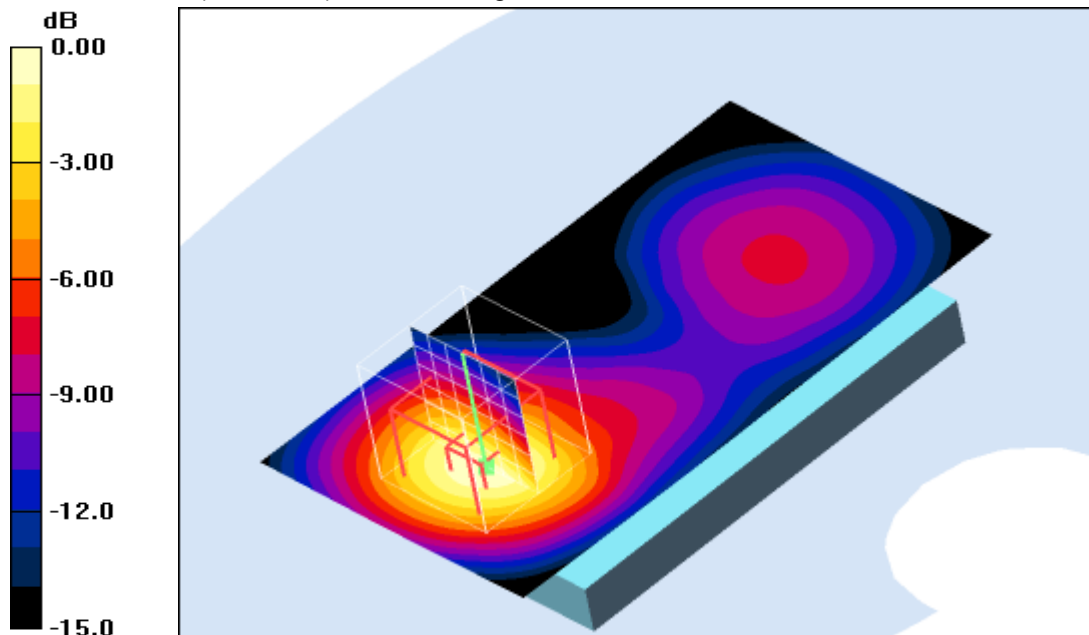
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.899 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 24.4 V/m; Power Drift = -0.011 dB
 Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.794 mW/g; SAR(10 g) = 0.446 mW/g
 Maximum value of SAR (measured) = 0.897 mW/g



0 dB = 0.897mW/g

Additional information:

position or distance of DUT to SAM : 15 mm
 ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-11 09:18:20 Date/Time: 2010-03-11 09:24:45

IEEE1528_OET65-Body-GSM1900 GPRS 2TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900 GPRS 2TS; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium: M1900 Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.621 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

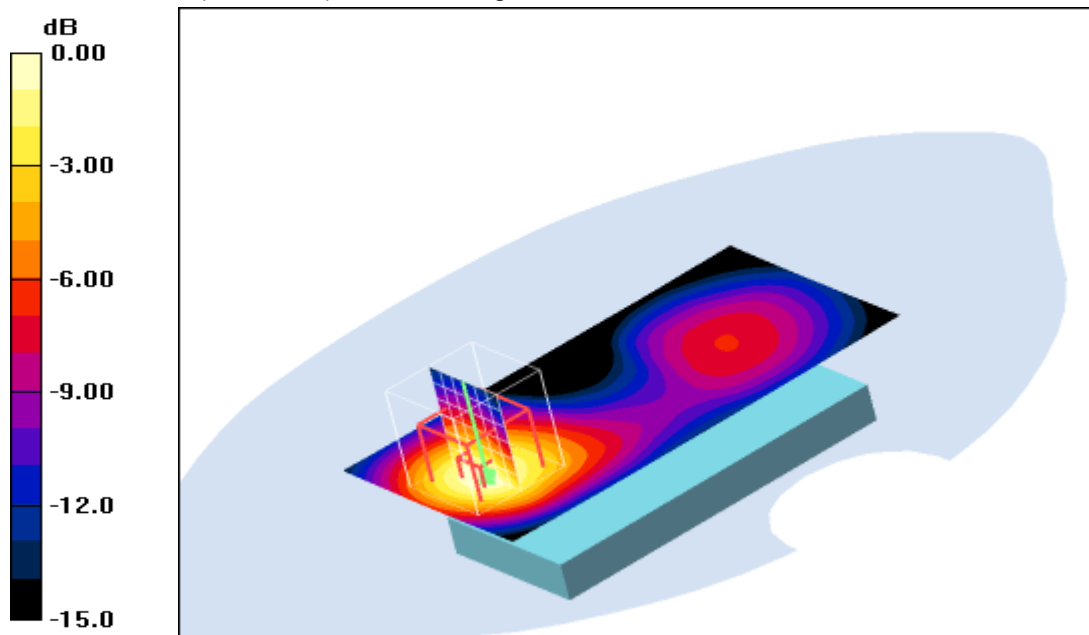
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.8 V/m; Power Drift = 0.104 dB

Peak SAR (extrapolated) = 0.868 W/kg

SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.316 mW/g

Maximum value of SAR (measured) = 0.634 mW/g



Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-11 10:23:46 Date/Time: 2010-03-11 10:30:06

IEEE1528_OET65-Body-GSM1900 GPRS 1TS

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: GSM 1900 GPRS 1TS; Frequency: 1850.2 MHz; Duty Cycle: 1:8

Medium: M1900 Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.780 mW/g

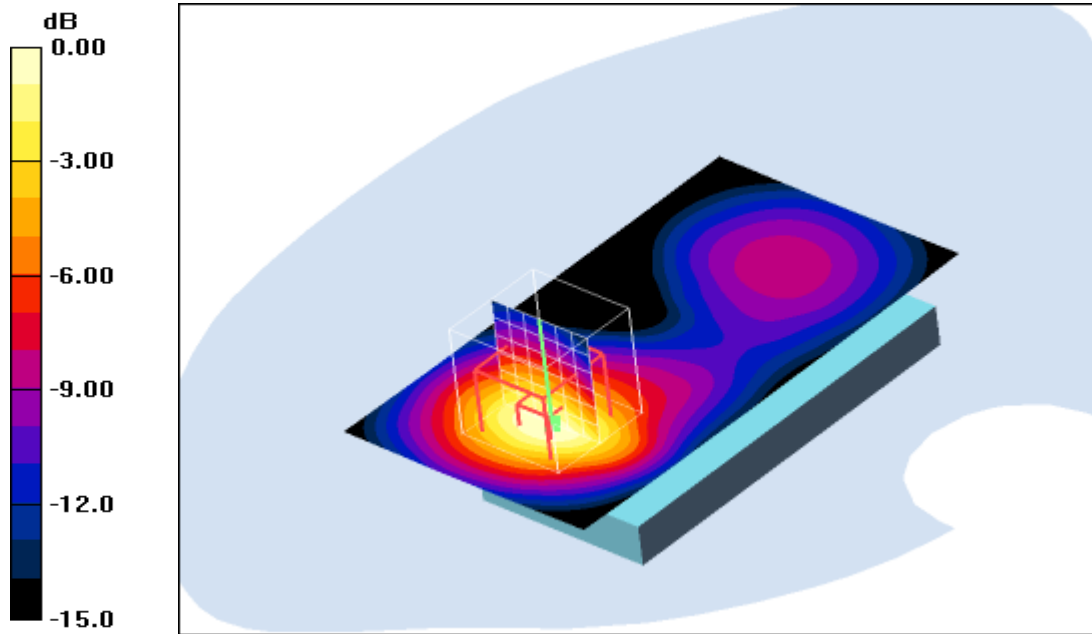
Rear position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.5 V/m; Power Drift = 0.046 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.674 mW/g; SAR(10 g) = 0.380 mW/g

Maximum value of SAR (measured) = 0.768 mW/g



0 dB = 0.768mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Annex B.5: WCDMA FDD II 1900 MHz head

Date/Time: 2010-03-07 18:59:04 Date/Time: 2010-03-07 19:06:00

IEEE1528_OET65-LeftHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1852.5$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.26 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

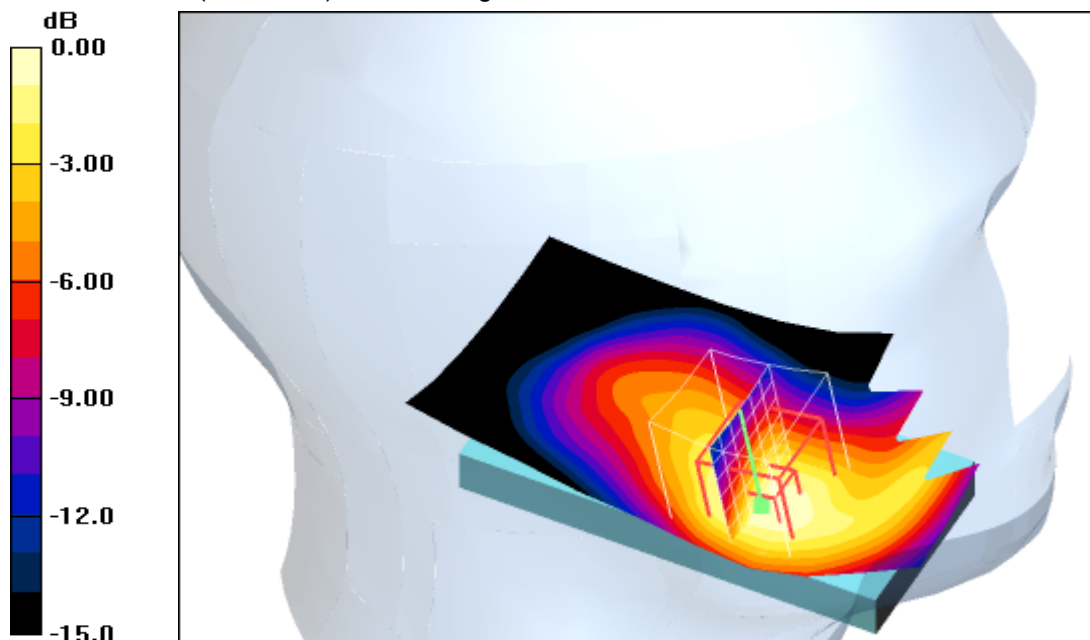
dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.7 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.701 mW/g

Maximum value of SAR (measured) = 1.24 mW/g



0 dB = 1.24mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.5°C

Date/Time: 2010-03-07 18:37:03 Date/Time: 2010-03-07 18:43:43

IEEE1528_OET65-LeftHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.44 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

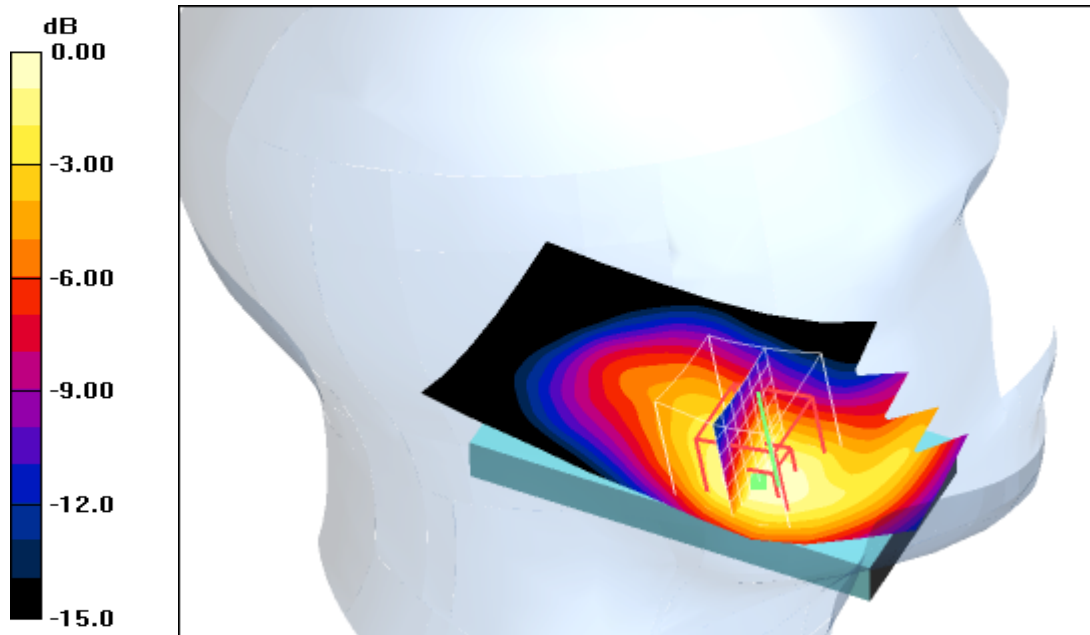
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.6 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.794 mW/g

Maximum value of SAR (measured) = 1.41 mW/g



0 dB = 1.41mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.5°C

Date/Time: 2010-03-07 18:15:03 Date/Time: 2010-03-07 18:21:30

IEEE1528_OET65-LeftHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.52 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

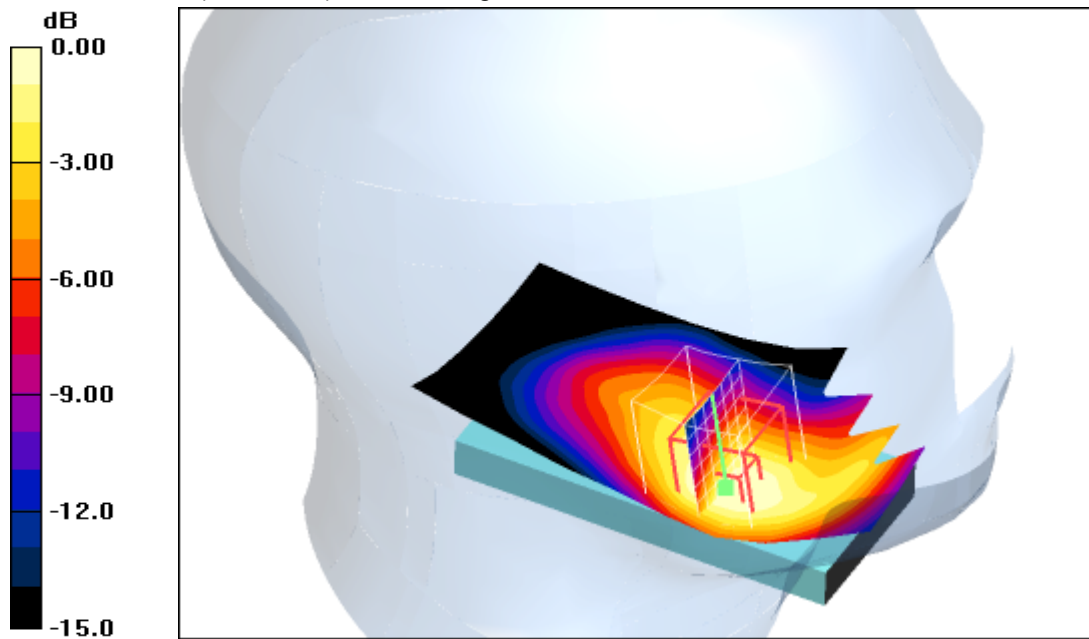
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.7 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.772 mW/g

Maximum value of SAR (measured) = 1.37 mW/g



0 dB = 1.37mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.5°C

Date/Time: 2010-03-07 16:47:07 Date/Time: 2010-03-07 16:53:47

IEEE1528_OET65-LeftHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1852.5 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.398 mW/g

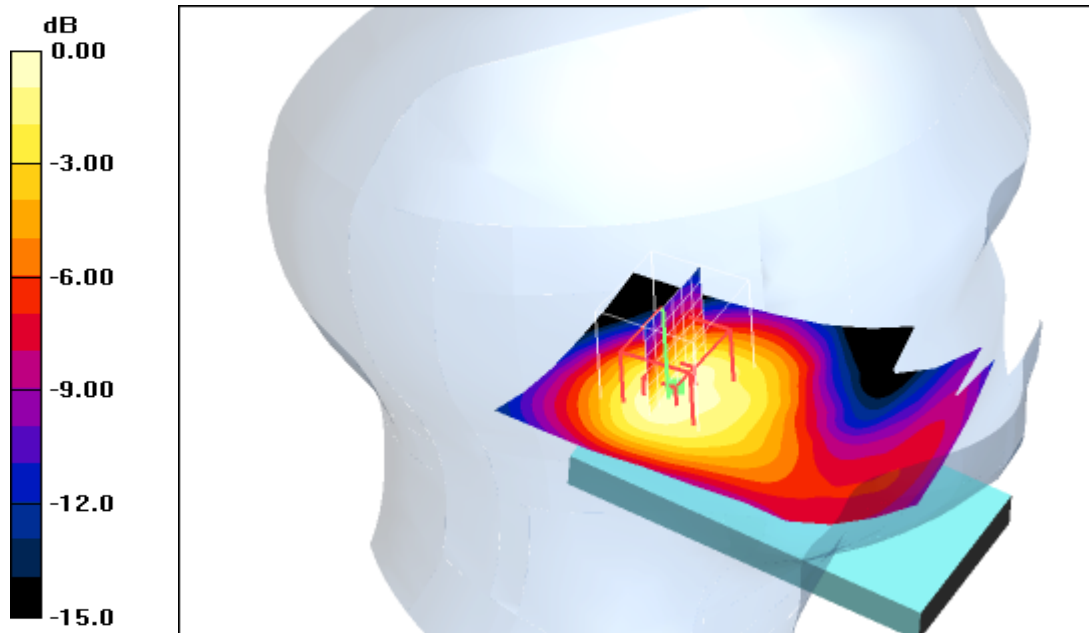
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.0 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.521 W/kg

SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.221 mW/g

Maximum value of SAR (measured) = 0.378 mW/g



0 dB = 0.378mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.5°C

Date/Time: 2010-03-07 17:07:18 Date/Time: 2010-03-07 17:13:51

IEEE1528_OET65-LeftHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.416 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

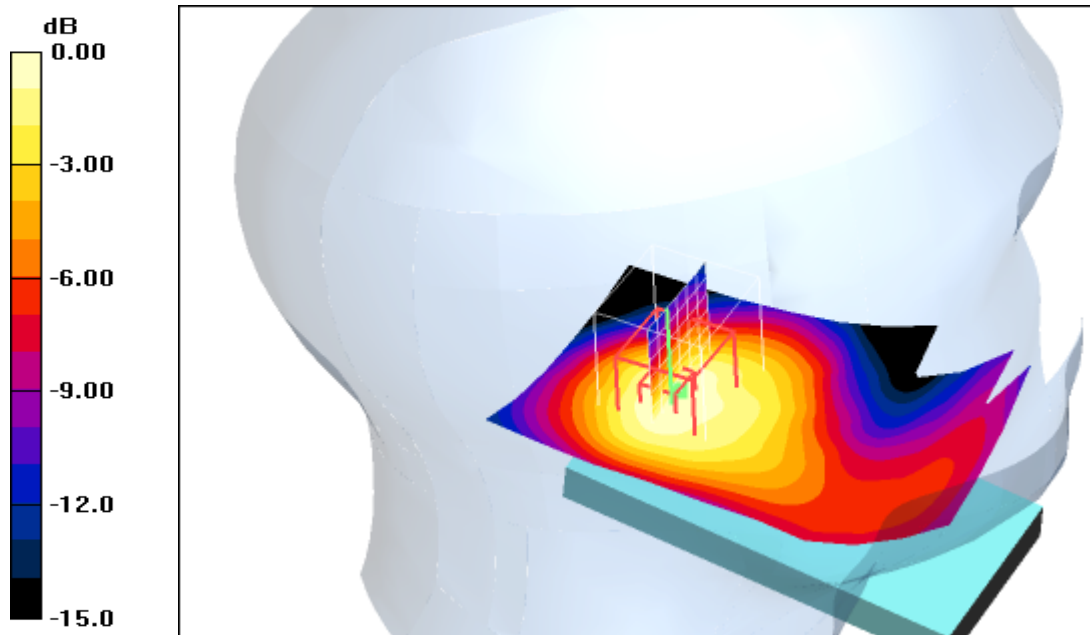
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.5 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.566 W/kg

SAR(1 g) = 0.374 mW/g; SAR(10 g) = 0.234 mW/g

Maximum value of SAR (measured) = 0.402 mW/g



0 dB = 0.402mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.5°C

Date/Time: 2010-03-07 17:28:52 Date/Time: 2010-03-07 17:35:30

IEEE1528_OET65-LeftHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.352 mW/g

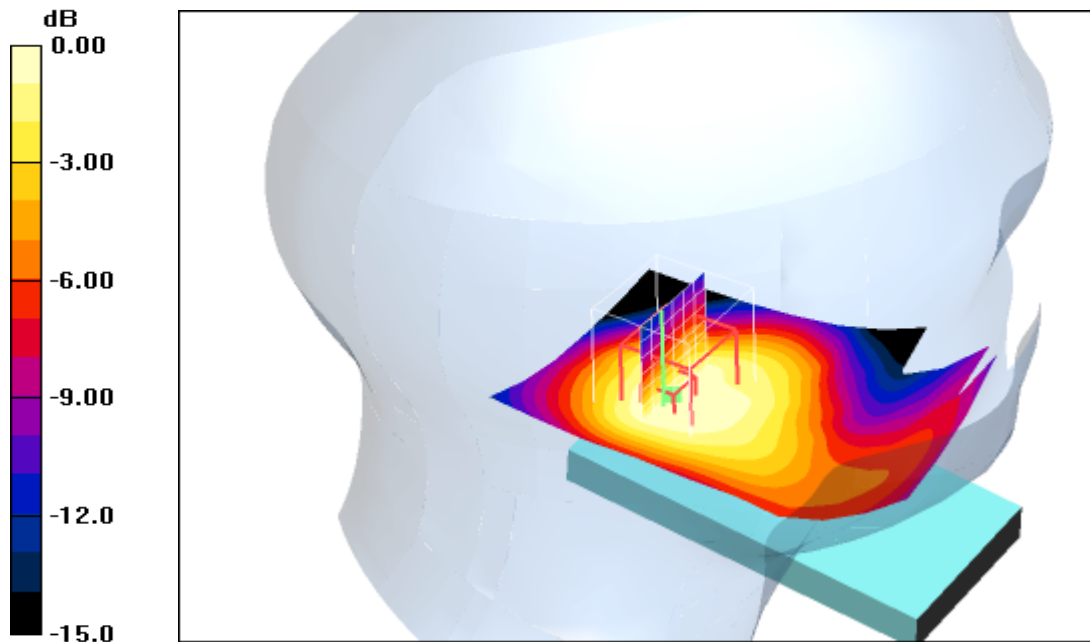
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.0 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 0.464 W/kg

SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.193 mW/g

Maximum value of SAR (measured) = 0.323 mW/g



0 dB = 0.323mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 21.5°C

Date/Time: 2010-03-06 16:56:37 Date/Time: 2010-03-06 17:05:09 Date/Time: 2010-03-06 17:18:42

IEEE1528_OET65-RightHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1852.5$ MHz; $\sigma = 1.4$ mho/m; $\epsilon_r = 40.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.17 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.8 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.629 mW/g

Maximum value of SAR (measured) = 1.31 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

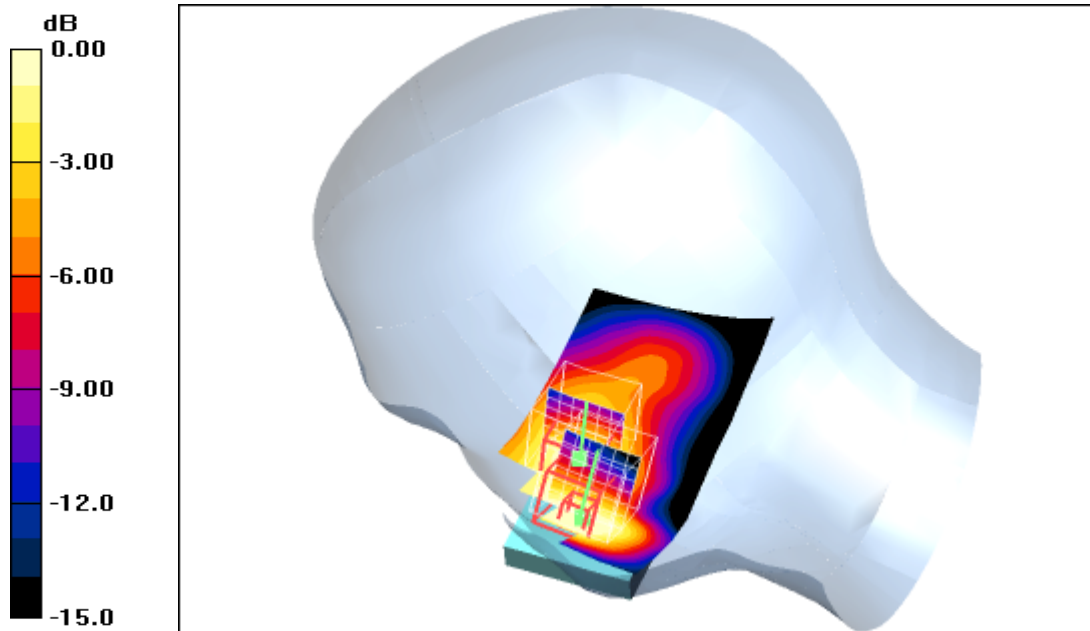
dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.8 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.901 mW/g; SAR(10 g) = 0.587 mW/g

Maximum value of SAR (measured) = 0.973 mW/g



0 dB = 0.973mW/g

Additional information:

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-06 18:13:07 Date/Time: 2010-03-06 18:20:30 Date/Time: 2010-03-06 18:33:02

IEEE1528_OET65-RightHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

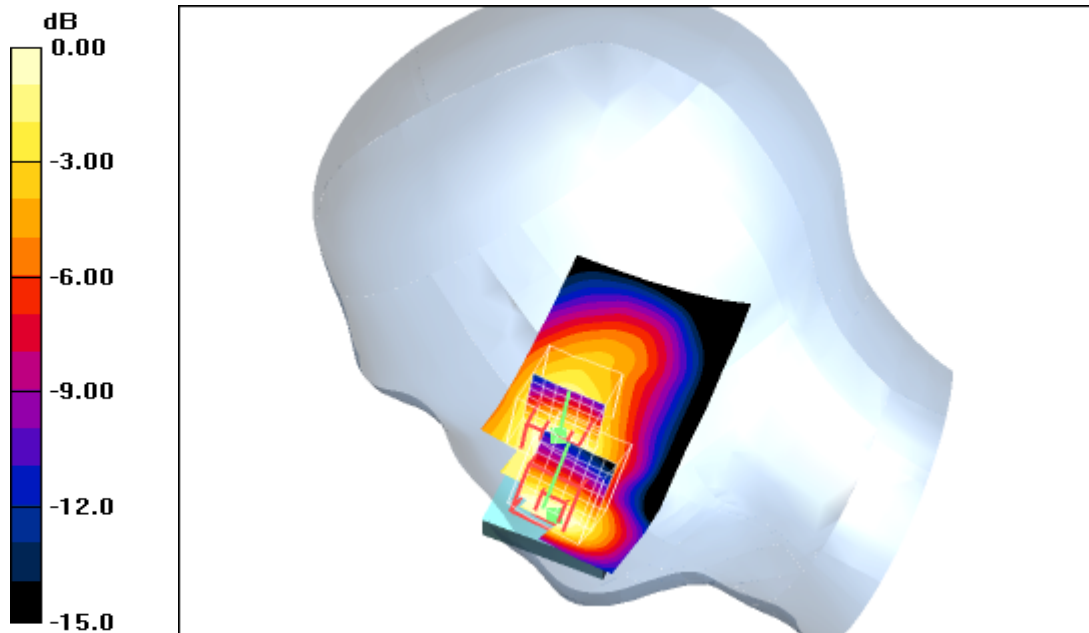
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.828 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 24.3 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.832 mW/g; SAR(10 g) = 0.451 mW/g
 Maximum value of SAR (measured) = 0.916 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 24.3 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.724 mW/g; SAR(10 g) = 0.468 mW/g
 Maximum value of SAR (measured) = 0.790 mW/g



0 dB = 0.790mW/g

Additional information:

ambient temperature: 22.4 °C; liquid temperature: 21.6 °C

Date/Time: 2010-03-07 14:54:52 Date/Time: 2010-03-07 15:06:48 Date/Time: 2010-03-07 15:19:28

IEEE1528_OET65-RightHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

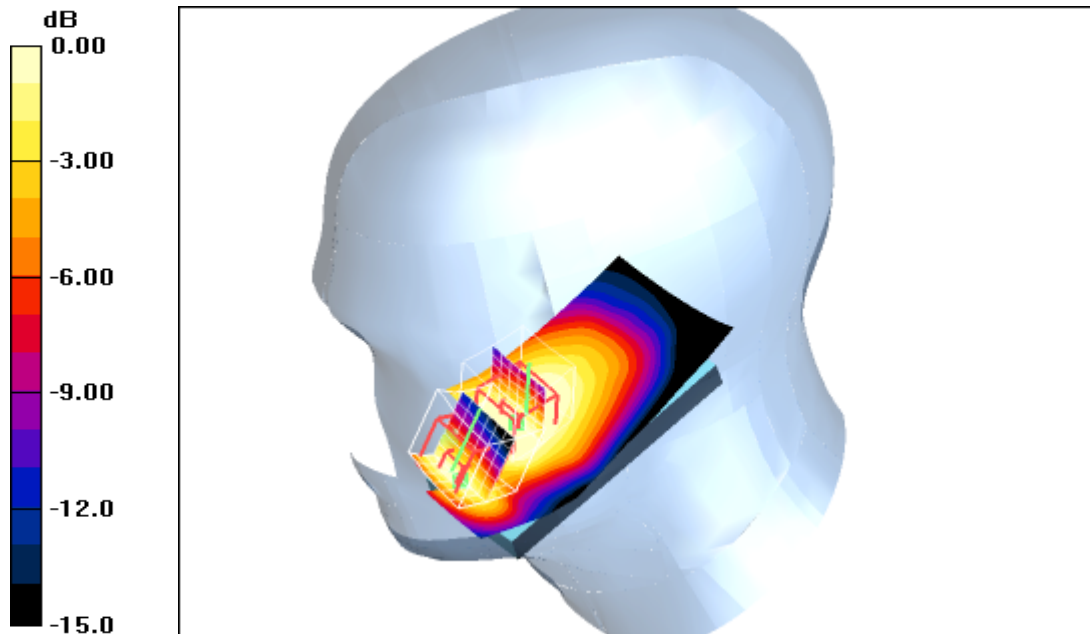
DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.788 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 23.9 V/m; Power Drift = -0.163 dB
 Peak SAR (extrapolated) = 0.958 W/kg
SAR(1 g) = 0.659 mW/g; SAR(10 g) = 0.432 mW/g
 Maximum value of SAR (measured) = 0.710 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 23.9 V/m; Power Drift = -0.163 dB
 Peak SAR (extrapolated) = 0.927 W/kg
SAR(1 g) = 0.549 mW/g; SAR(10 g) = 0.302 mW/g
 Maximum value of SAR (measured) = 0.608 mW/g



0 dB = 0.608mW/g

Additional information:

ambient temperature: 22.3°C; liquid temperature: 21.5°C

Date/Time: 2010-03-07 16:18:50 Date/Time: 2010-03-07 16:32:35

IEEE1528_OET65-RightHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1852.5 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.405 mW/g

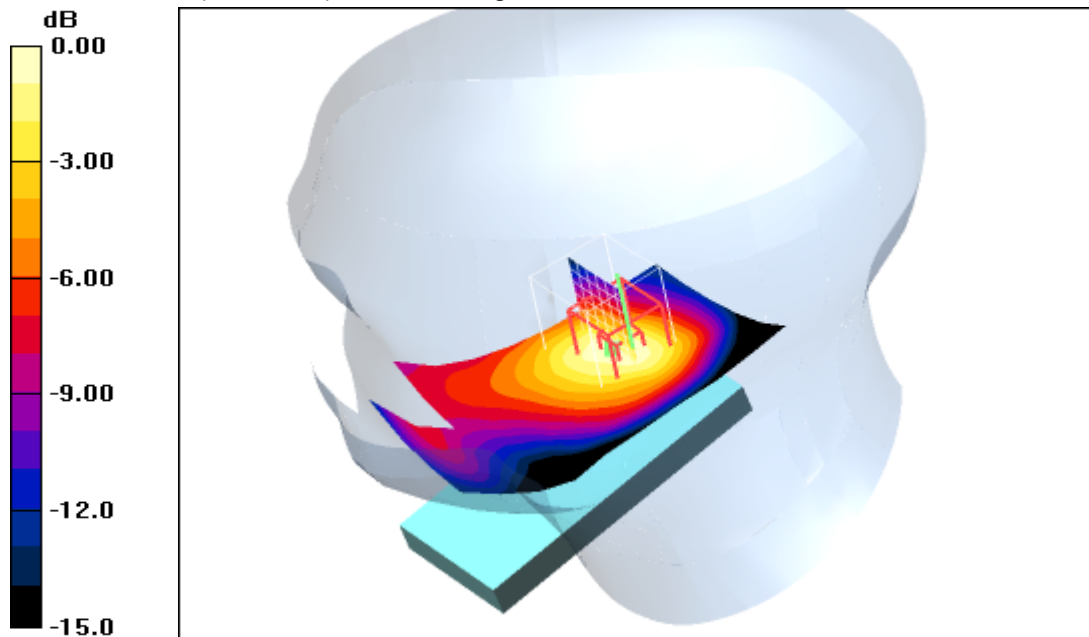
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.0 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 0.563 W/kg

SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.225 mW/g

Maximum value of SAR (measured) = 0.402 mW/g



0 dB = 0.402mW/g

Additional information:

ambient temperature: 22.3°C; liquid temperature: 21.5°C

Date/Time: 2010-03-07 15:58:08 Date/Time: 2010-03-07 16:04:54

IEEE1528_OET65-RightHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

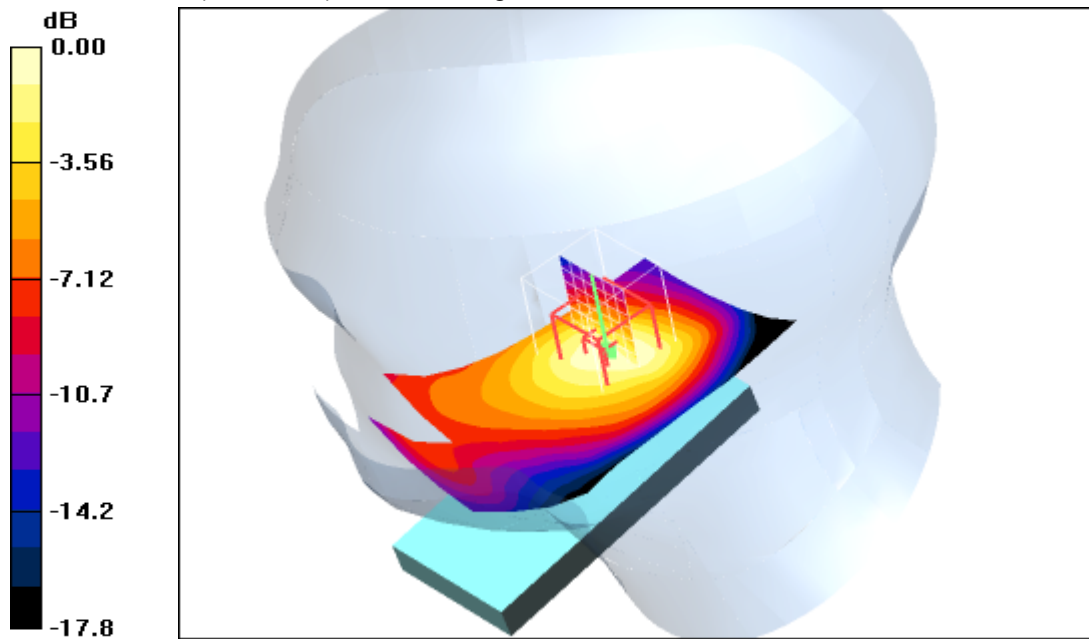
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 0.457 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 17.8 V/m; Power Drift = 0.056 dB
 Peak SAR (extrapolated) = 0.630 W/kg
SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.243 mW/g
 Maximum value of SAR (measured) = 0.448 mW/g



0 dB = 0.448mW/g

Additional information:

ambient temperature: 22.3°C; liquid temperature: 21.5°C

Date/Time: 2010-03-07 15:36:43 Date/Time: 2010-03-07 15:43:39

IEEE1528_OET65-RightHandSide-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: HSL1900 Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.4 \text{ mho/m}$; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.75, 4.75, 4.75); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.417 mW/g

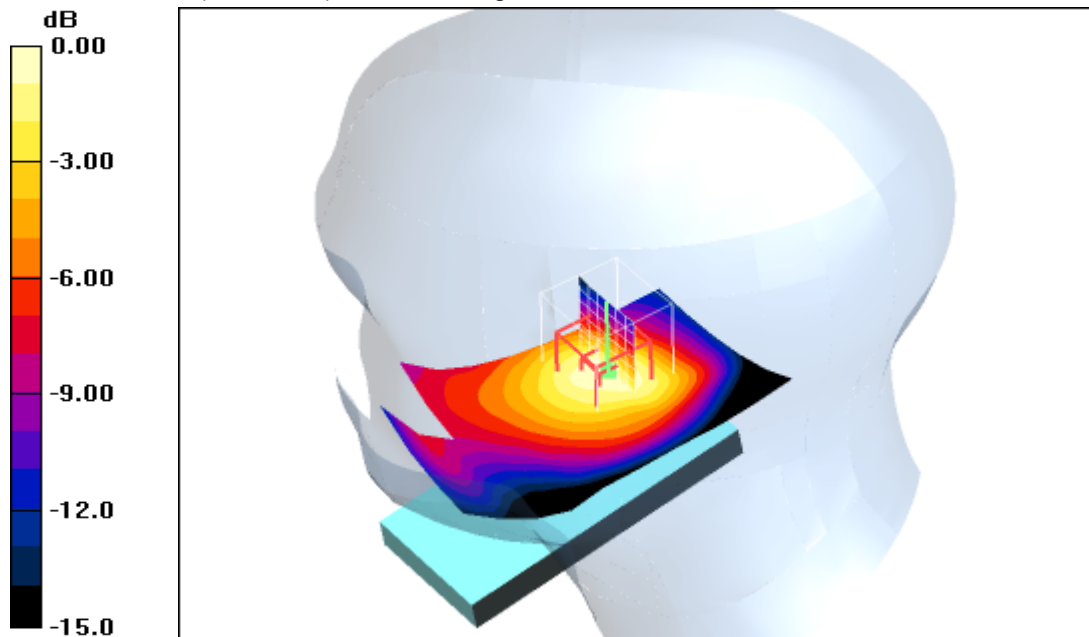
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.2 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.364 mW/g; SAR(10 g) = 0.216 mW/g

Maximum value of SAR (measured) = 0.402 mW/g



0 dB = 0.402mW/g

Additional information:

ambient temperature: 22.3°C; liquid temperature: 21.5°C

Annex B.6: WCDMA FDD II 1900 MHz body

Date/Time: 2010-03-11 14:16:23 Date/Time: 2010-03-11 14:23:00

IEEE1528_OET65-Body-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used (interpolated): $f = 1852.5 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.663 mW/g

Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

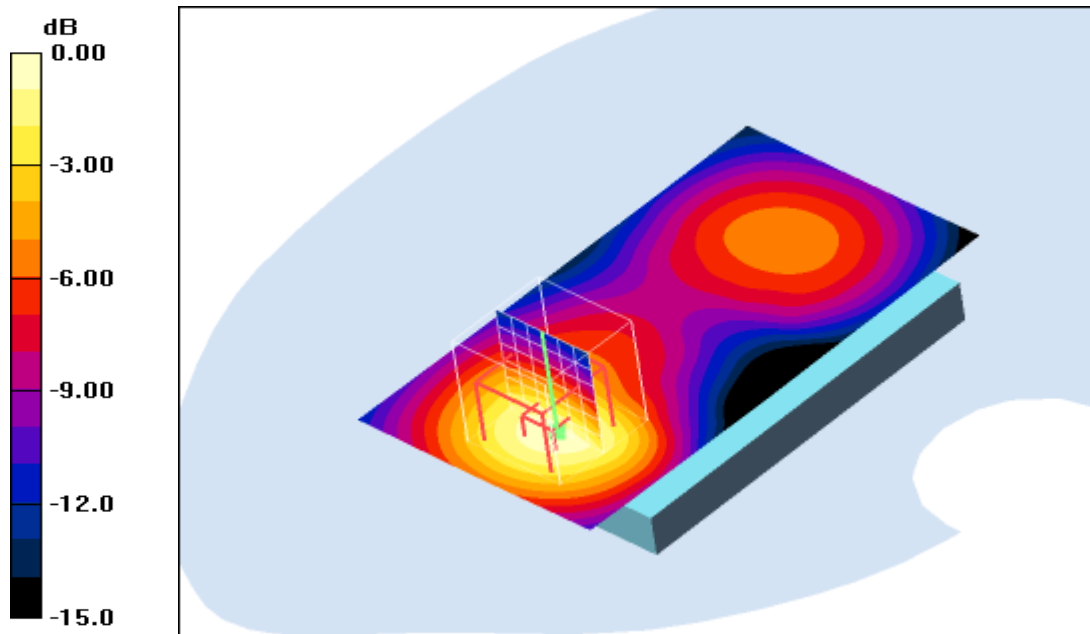
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.3 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 0.858 W/kg

SAR(1 g) = 0.610 mW/g; SAR(10 g) = 0.364 mW/g

Maximum value of SAR (measured) = 0.680 mW/g



0 dB = 0.680mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 21.3°C

Date/Time: 2010-03-11 13:55:59 Date/Time: 2010-03-11 14:02:34

IEEE1528_OET65-Body-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.647 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

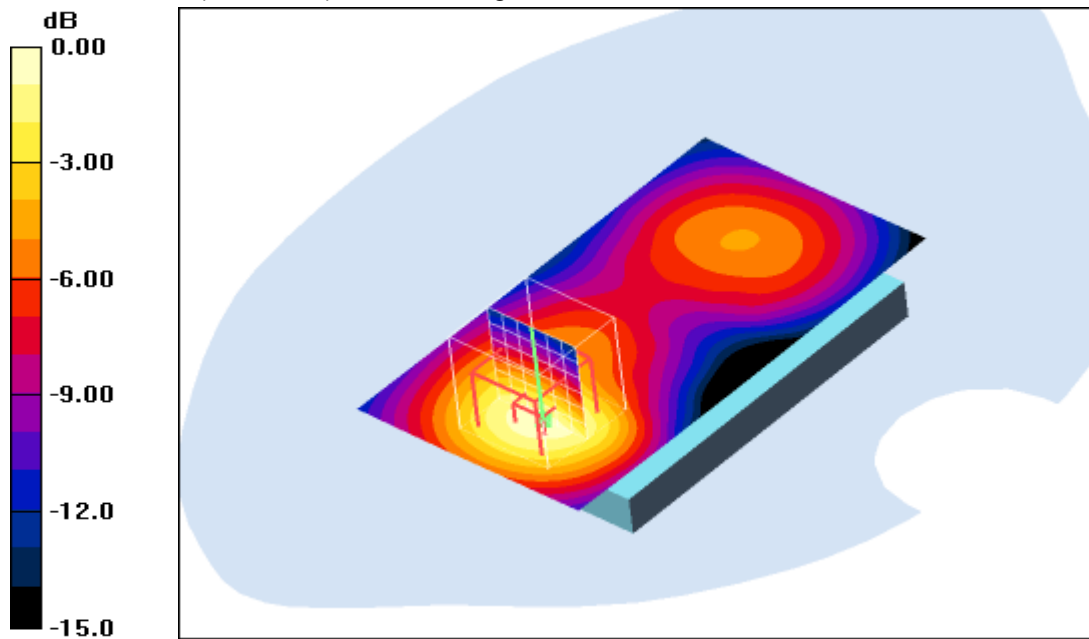
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.3 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.864 W/kg

SAR(1 g) = 0.602 mW/g; SAR(10 g) = 0.356 mW/g

Maximum value of SAR (measured) = 0.673 mW/g



0 dB = 0.673mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 21.3°C

Date/Time: 2010-03-11 13:36:04 Date/Time: 2010-03-11 13:42:32

IEEE1528_OET65-Body-UMTS-FDD-II**DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK**

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn413; Calibrated: 2010-01-04

- Phantom: SAM 12; Type: SAM; Serial: 1043

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.617 mW/g

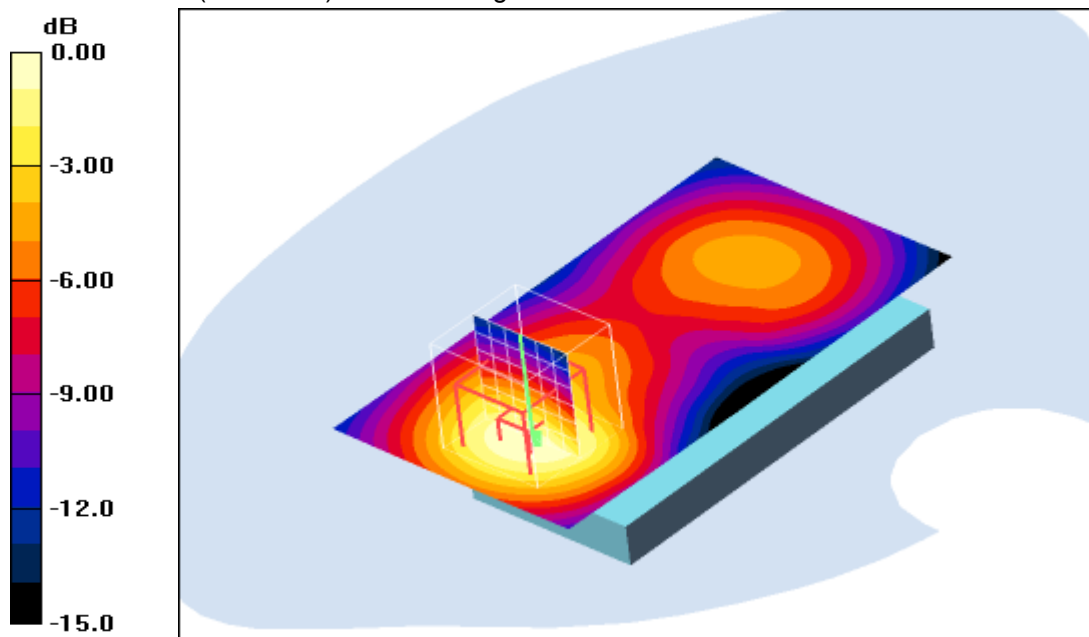
Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.2 V/m; Power Drift = -0.107 dB

Peak SAR (extrapolated) = 0.754 W/kg

SAR(1 g) = 0.520 mW/g; SAR(10 g) = 0.306 mW/g

Maximum value of SAR (measured) = 0.580 mW/g



0 dB = 0.580mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 21.3°C

Date/Time: 2010-03-11 14:45:02 Date/Time: 2010-03-11 14:51:46

IEEE1528_OET65-Body-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used (interpolated): $f = 1852.5$ MHz; $\sigma = 1.52$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low /Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.18 mW/g

Rear position - Low /Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

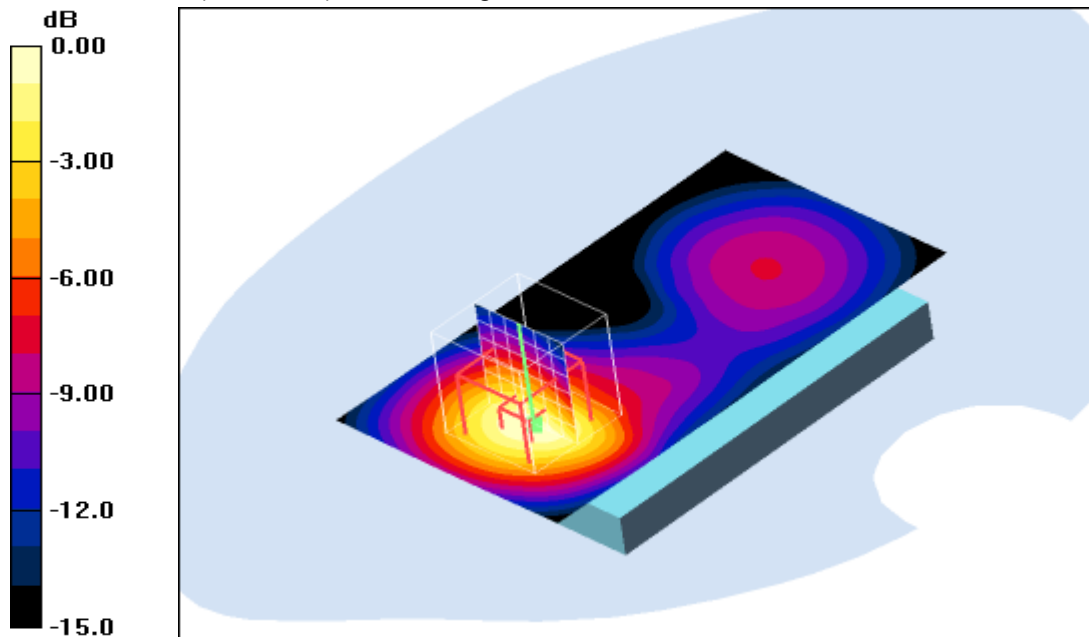
dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.9 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.583 mW/g

Maximum value of SAR (measured) = 1.16 mW/g



Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 23.0°C; liquid temperature: 21.3°C

Date/Time: 2010-03-11 15:05:39 Date/Time: 2010-03-11 15:12:23

IEEE1528_OET65-Body-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

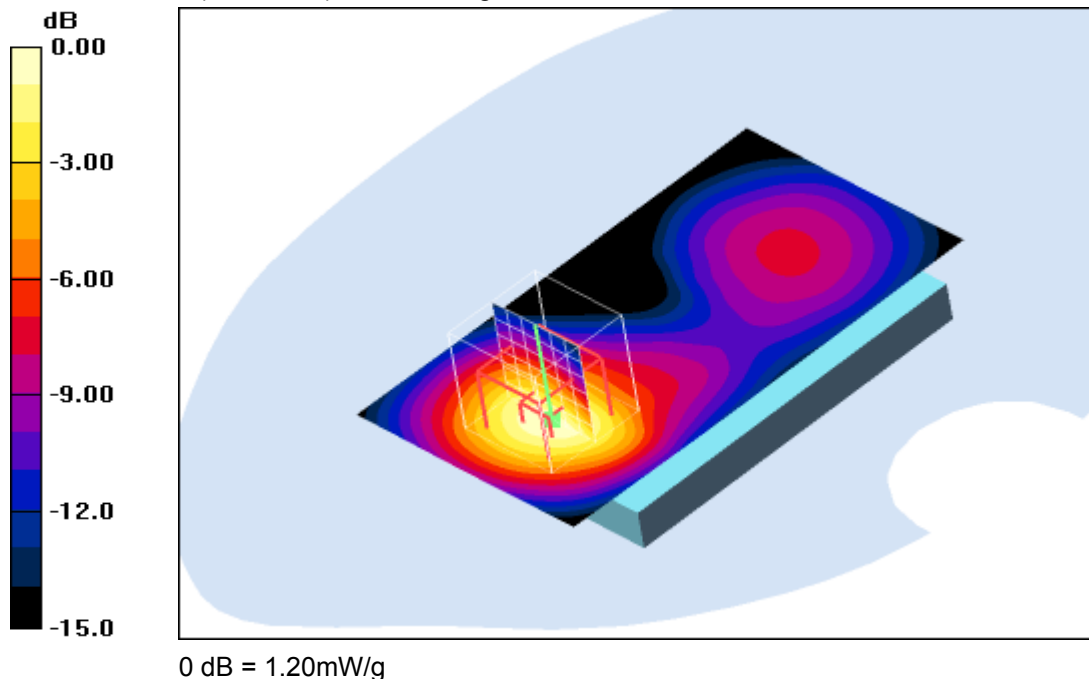
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 1.20 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 29.6 V/m; Power Drift = 0.045 dB
 Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.604 mW/g
 Maximum value of SAR (measured) = 1.20 mW/g



Additional information:
 position or distance of DUT to SAM : 15 mm
 ambient temperature: 23.0°C; liquid temperature: 21.3°C

Date/Time: 2010-03-11 15:28:03 Date/Time: 2010-03-11 15:34:58

IEEE1528_OET65-Body-UMTS-FDD-II

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 53$; $\rho = 1000 \text{ kg/m}^3$

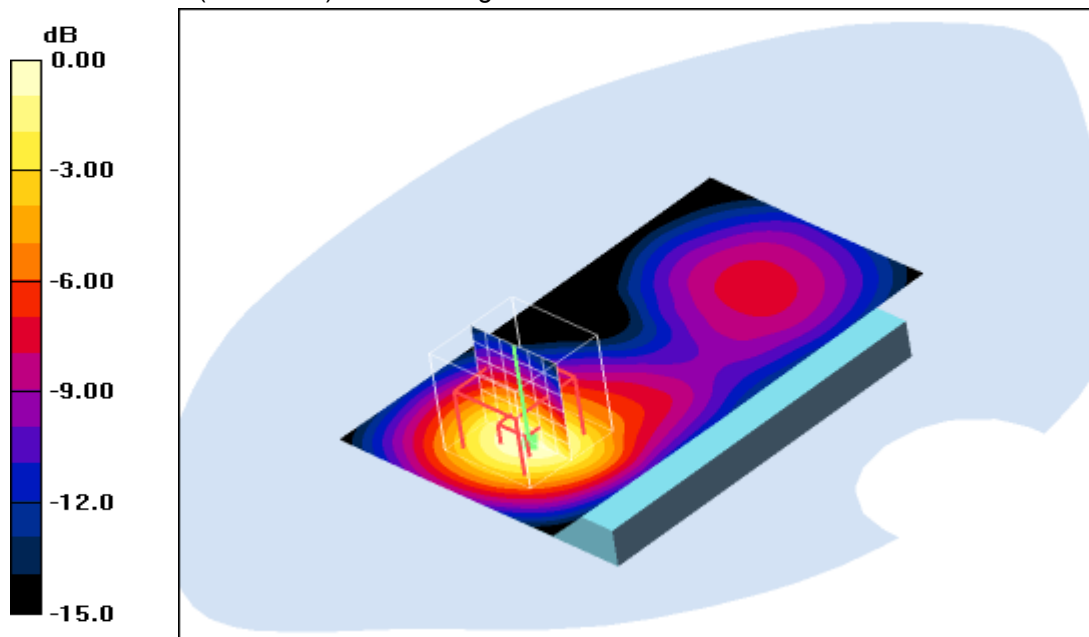
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.31, 4.31, 4.31); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 1.07 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 28.1 V/m; Power Drift = -0.028 dB
 Peak SAR (extrapolated) = 1.40 W/kg
SAR(1 g) = 0.917 mW/g; SAR(10 g) = 0.517 mW/g
 Maximum value of SAR (measured) = 1.04 mW/g



0 dB = 1.04mW/g

Additional information:

position or distance of DUT to SAM : 15 mm
 ambient temperature: 23.0°C; liquid temperature: 21.3°C

Annex B.7: WCDMA FDD V 850 MHz head

Date/Time: 2010-03-09 15:11:17 Date/Time: 2010-03-09 15:17:40

IEEE1528_OET65-LeftHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.743 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

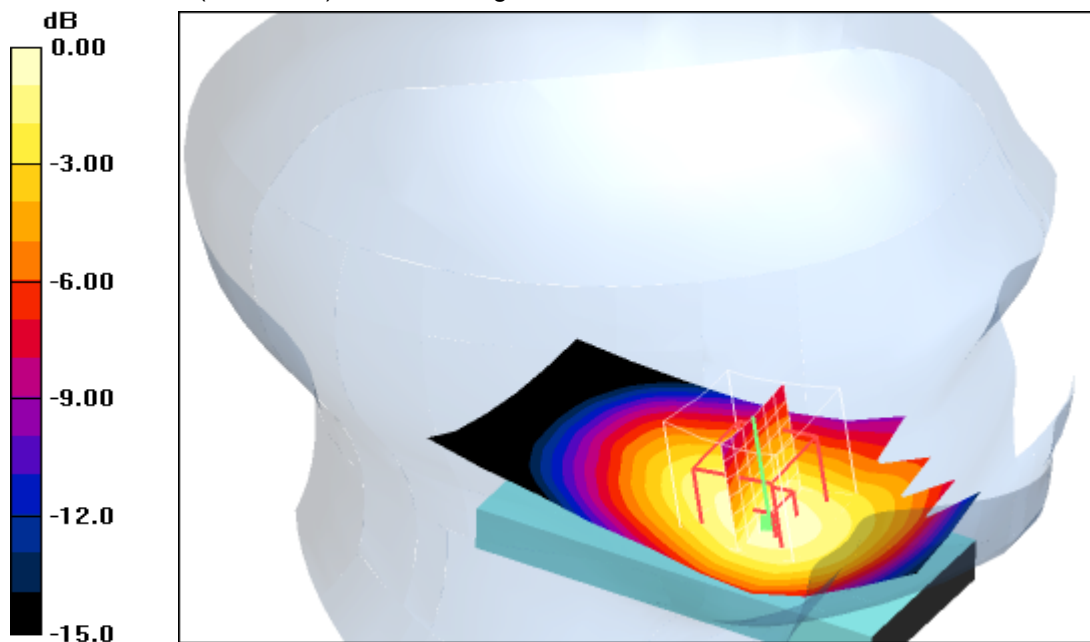
dx=5mm, dy=5mm, dz=5mm

Reference Value = 30.0 V/m; Power Drift = 0.019 dB

Peak SAR (extrapolated) = 0.972 W/kg

SAR(1 g) = 0.722 mW/g; SAR(10 g) = 0.507 mW/g

Maximum value of SAR (measured) = 0.768 mW/g



0 dB = 0.768mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 15:32:35 Date/Time: 2010-03-09 15:38:21

IEEE1528_OET65-LeftHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.00 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

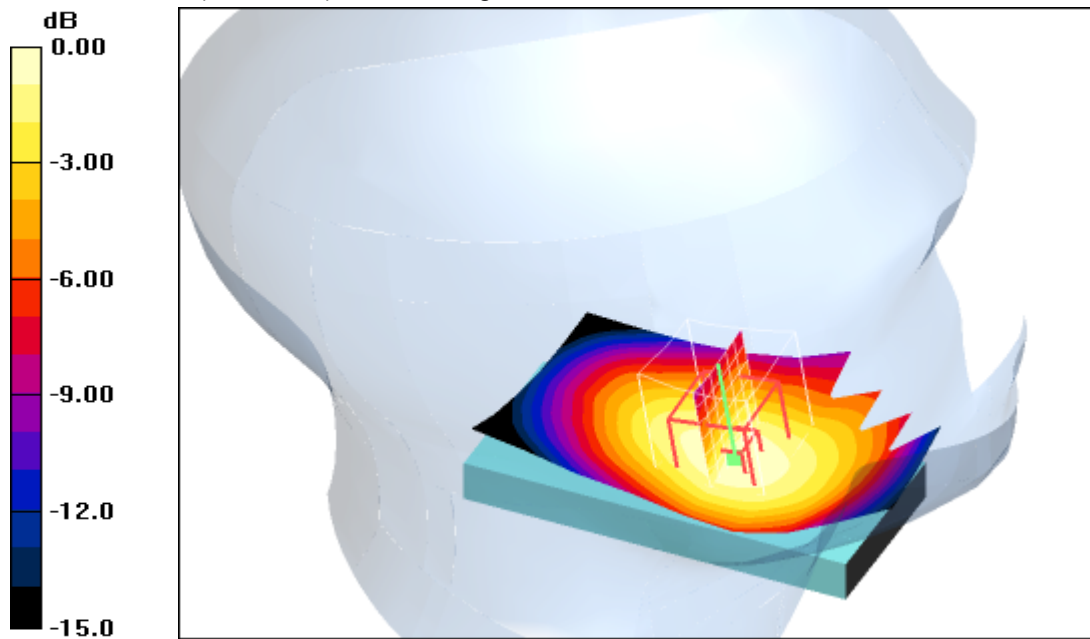
dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.5 V/m; Power Drift = 0.105 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.959 mW/g; SAR(10 g) = 0.671 mW/g

Maximum value of SAR (measured) = 1.02 mW/g



0 dB = 1.02mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 15:53:18 Date/Time: 2010-03-09 15:59:07

IEEE1528_OET65-LeftHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 846.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.07 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

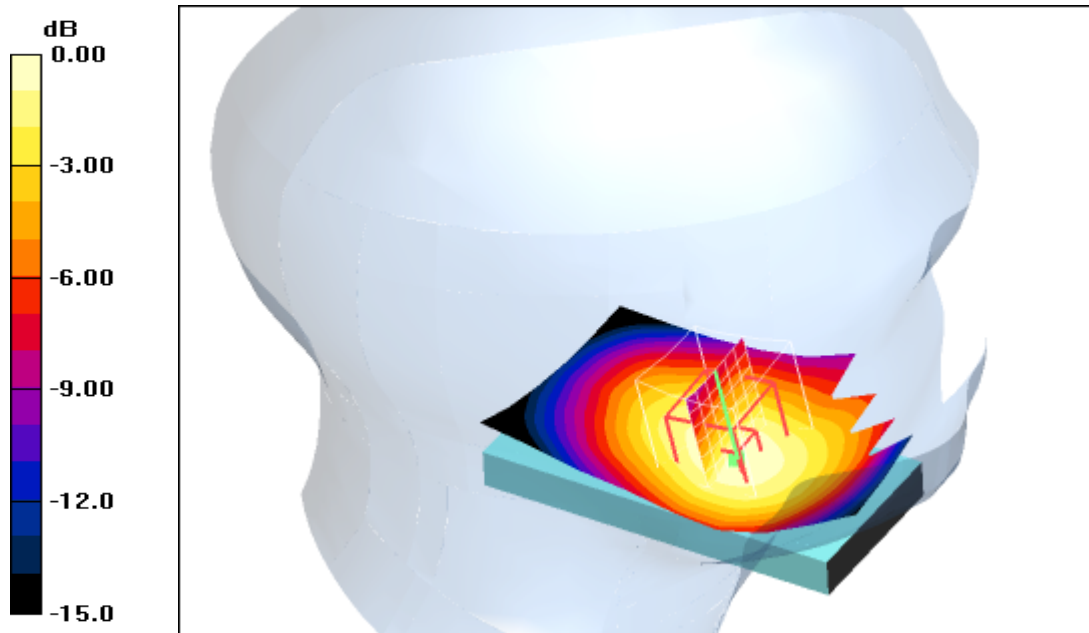
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 35.5 V/m; Power Drift = -0.097 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.705 mW/g

Maximum value of SAR (measured) = 1.07 mW/g



0 dB = 1.07mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 14:06:08 Date/Time: 2010-03-09 14:13:58

IEEE1528_OET65-LeftHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.428 mW/g

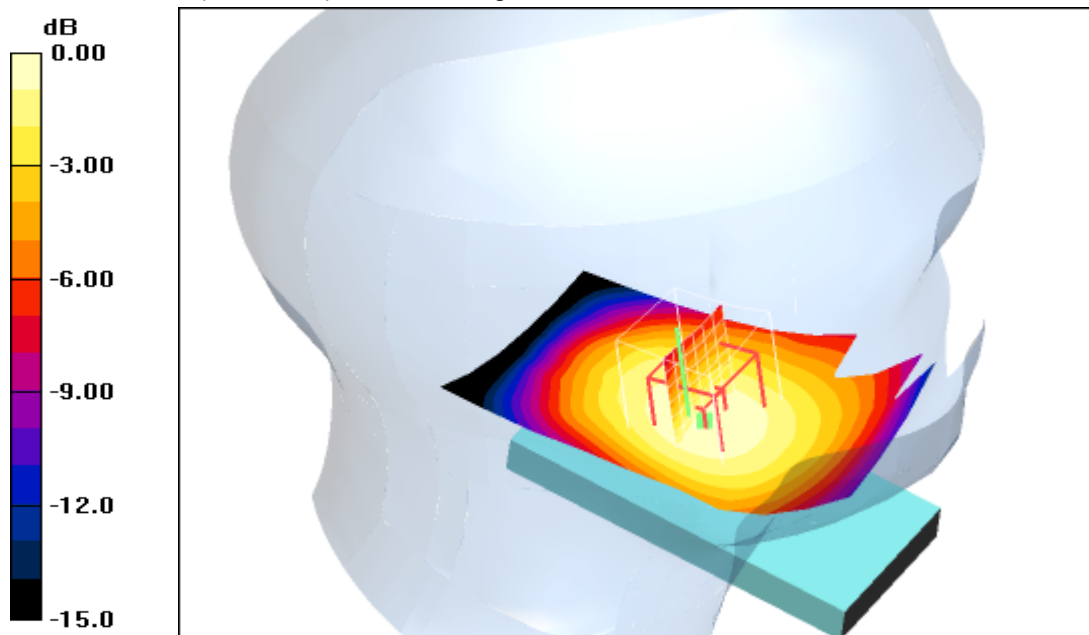
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.9 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.498 W/kg

SAR(1 g) = 0.396 mW/g; SAR(10 g) = 0.292 mW/g

Maximum value of SAR (measured) = 0.418 mW/g



Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 14:27:33 Date/Time: 2010-03-09 14:34:10

IEEE1528_OET65-LeftHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 836.4 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.525 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

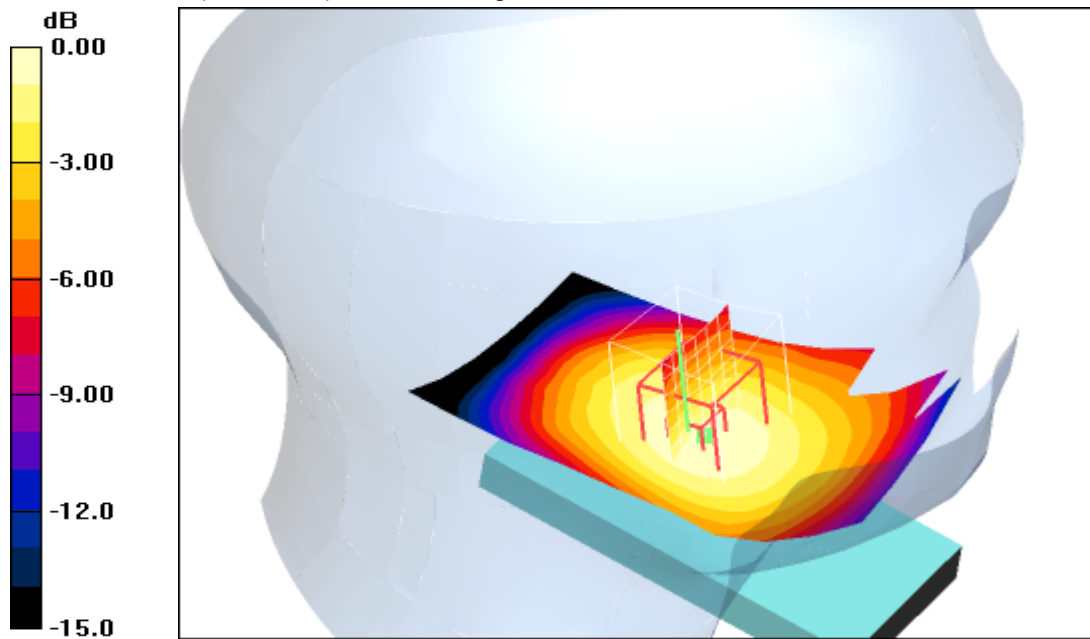
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.5 V/m; Power Drift = 0.066 dB

Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.501 mW/g; SAR(10 g) = 0.371 mW/g

Maximum value of SAR (measured) = 0.528 mW/g



0 dB = 0.528mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 14:47:59 Date/Time: 2010-03-09 14:54:34

IEEE1528_OET65-LeftHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.525 mW/g

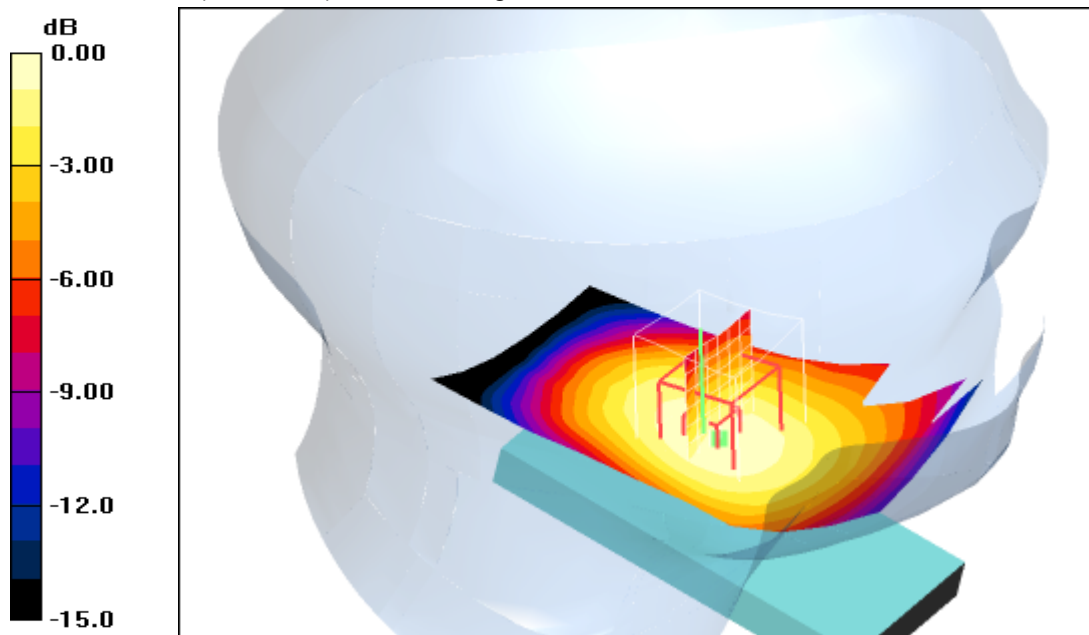
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.5 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.616 W/kg

SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.365 mW/g

Maximum value of SAR (measured) = 0.521 mW/g



Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 16:59:09 Date/Time: 2010-03-09 17:05:22

IEEE1528_OET65-RightHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.790 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

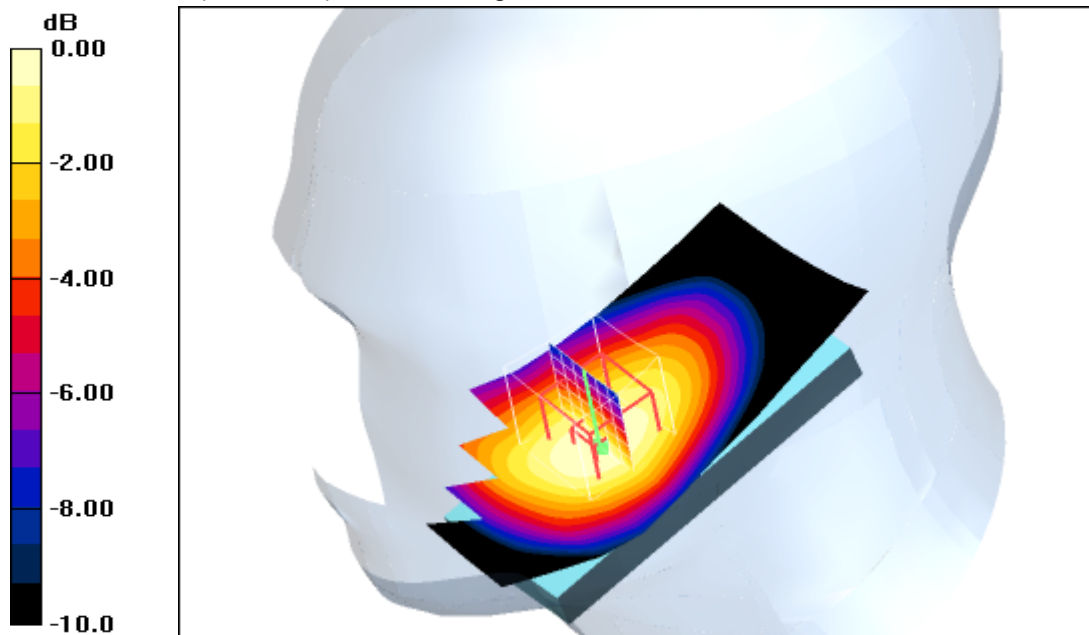
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.1 V/m; Power Drift = 0.020 dB

Peak SAR (extrapolated) = 0.949 W/kg

SAR(1 g) = 0.741 mW/g; SAR(10 g) = 0.537 mW/g

Maximum value of SAR (measured) = 0.789 mW/g



0 dB = 0.789mW/g

Additional information:

ambient temperature: 22.9°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 16:40:03 Date/Time: 2010-03-09 16:46:15

IEEE1528_OET65-RightHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 836.4 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 1.03 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

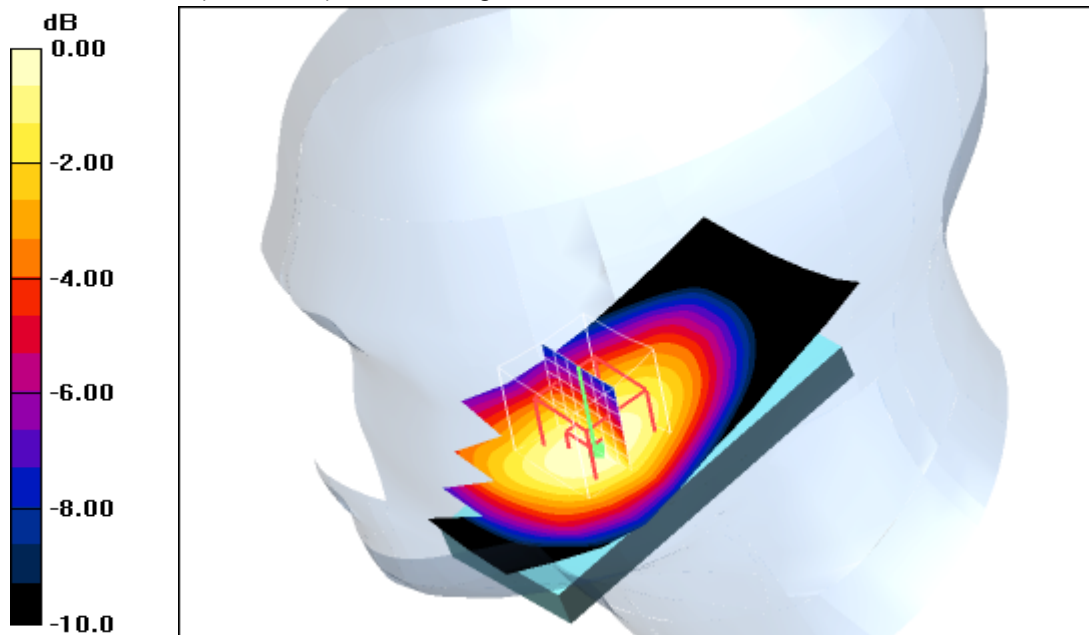
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 34.0 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.969 mW/g; SAR(10 g) = 0.700 mW/g

Maximum value of SAR (measured) = 1.03 mW/g



0 dB = 1.03mW/g

Additional information:

ambient temperature: 22.9°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 16:17:52 Date/Time: 2010-03-09 16:25:19

IEEE1528_OET65-RightHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.05 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

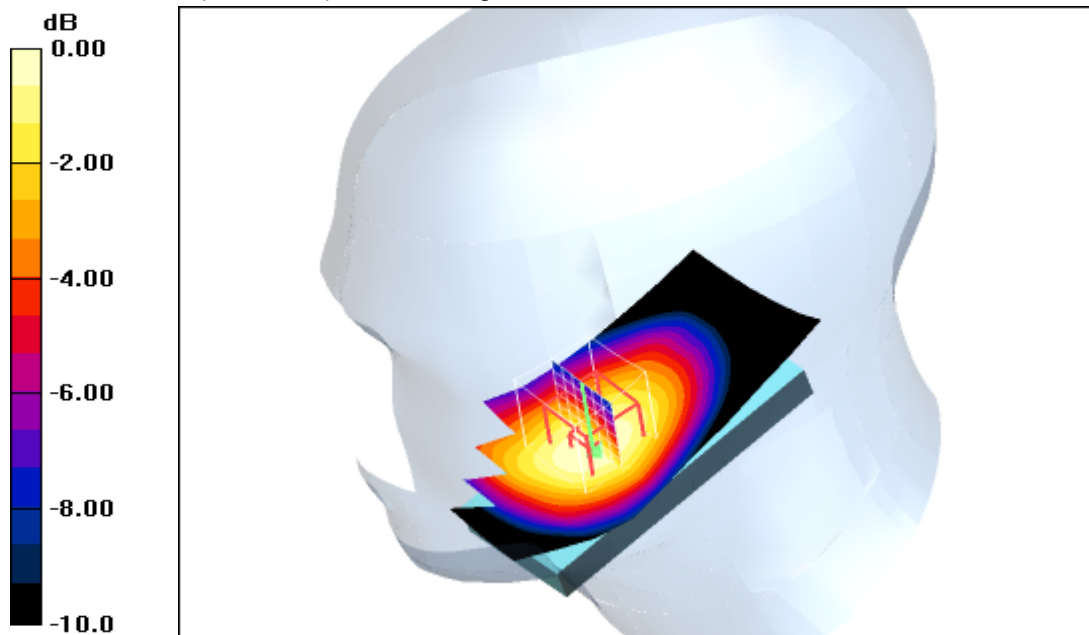
dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.2 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.986 mW/g; SAR(10 g) = 0.712 mW/g

Maximum value of SAR (measured) = 1.05 mW/g



0 dB = 1.05mW/g

Additional information:

ambient temperature: 22.9°C; liquid temperature: 21.8°C

Date/Time: 2010-03-09 17:22:20 Date/Time: 2010-03-09 17:28:45

IEEE1528_OET65-RightHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 826.4 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.331 mW/g

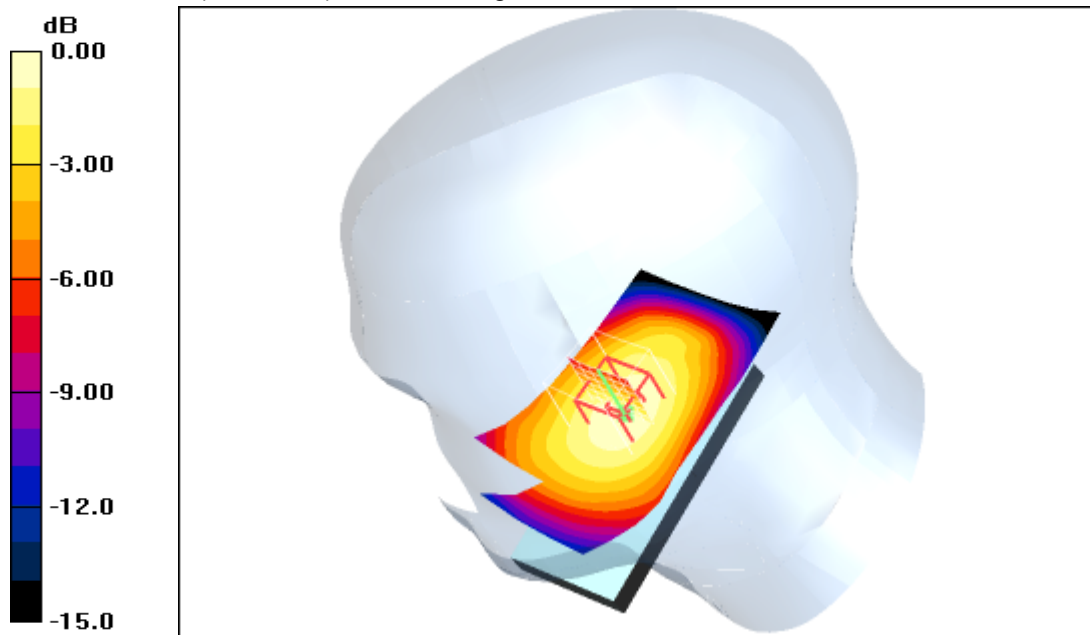
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 19.5 V/m; Power Drift = 0.110 dB

Peak SAR (extrapolated) = 0.403 W/kg

SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.236 mW/g

Maximum value of SAR (measured) = 0.340 mW/g



0 dB = 0.340mW/g

Additional information:

ambient temperature: 23.0 °C; liquid temperature: 21.7 °C

Date/Time: 2010-03-09 17:42:24 Date/Time: 2010-03-09 17:48:51

IEEE1528_OET65-RightHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.445 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

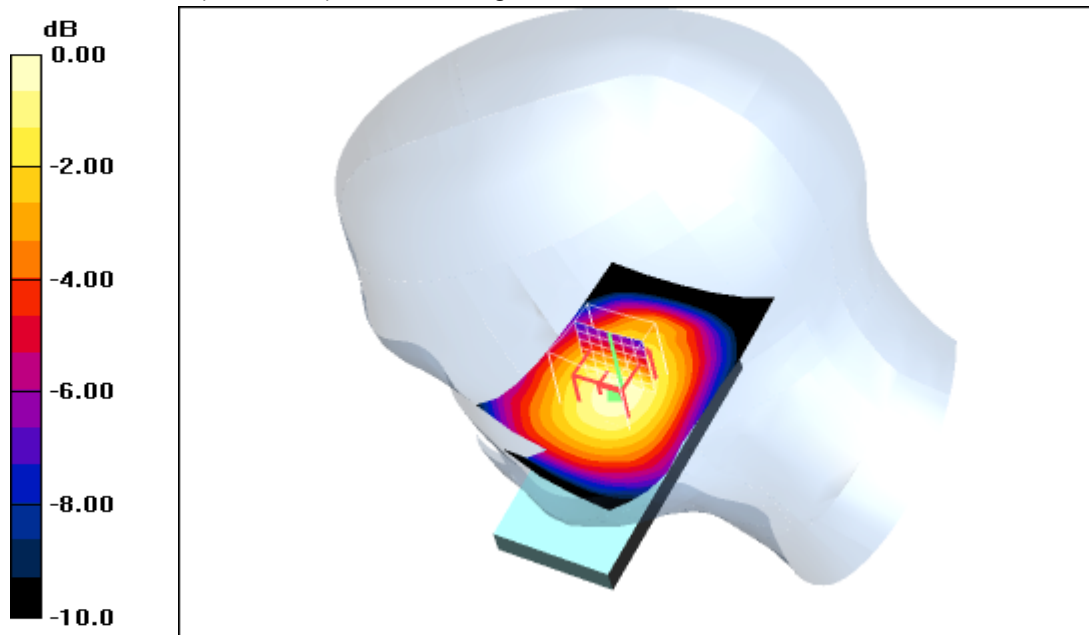
dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.0 V/m; Power Drift = 0.092 dB

Peak SAR (extrapolated) = 0.552 W/kg

SAR(1 g) = 0.438 mW/g; SAR(10 g) = 0.323 mW/g

Maximum value of SAR (measured) = 0.463 mW/g



0 dB = 0.463mW/g

Additional information:

ambient temperature: 23.0 °C; liquid temperature: 21.7 °C

Date/Time: 2010-03-09 18:15:49 Date/Time: 2010-03-09 18:22:18

IEEE1528_OET65-RightHandSide-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: HSL850 Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.9$ mho/m; $\epsilon_r = 42.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(6.02, 6.02, 6.02); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.462 mW/g

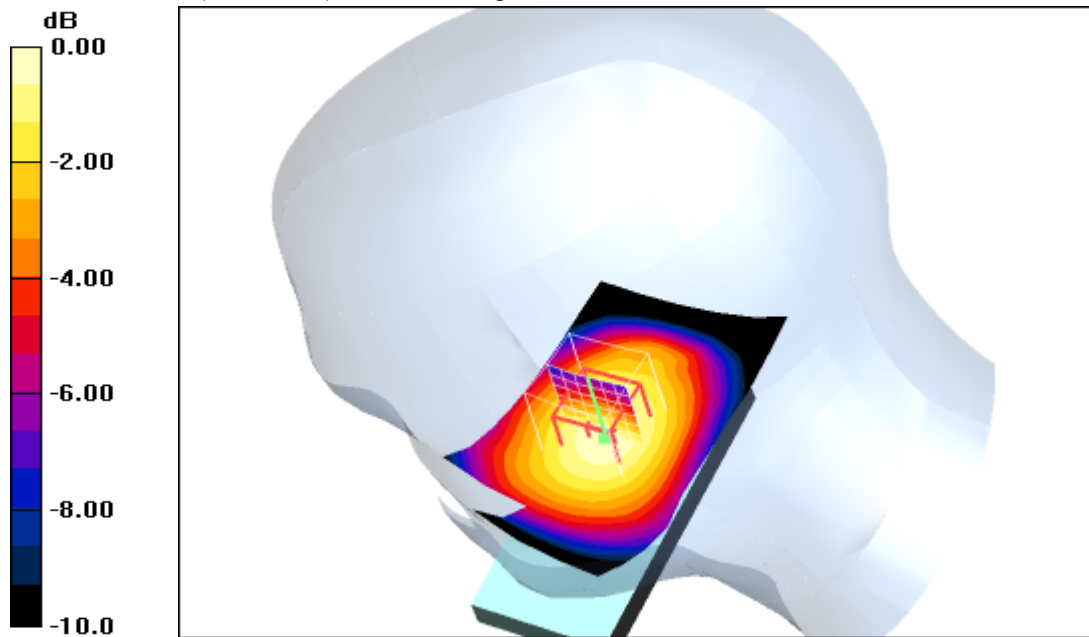
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.4 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 0.563 W/kg

SAR(1 g) = 0.446 mW/g; SAR(10 g) = 0.328 mW/g

Maximum value of SAR (measured) = 0.471 mW/g



0 dB = 0.471mW/g

Additional information:

ambient temperature: 23.0 °C; liquid temperature: 21.7 °C

Annex B.8: WCDMA FDD V 850 MHz body

Date/Time: 2010-03-10 16:06:54 Date/Time: 2010-03-10 16:18:20

IEEE1528_OET65-Body-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: M850 Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.314 mW/g

Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

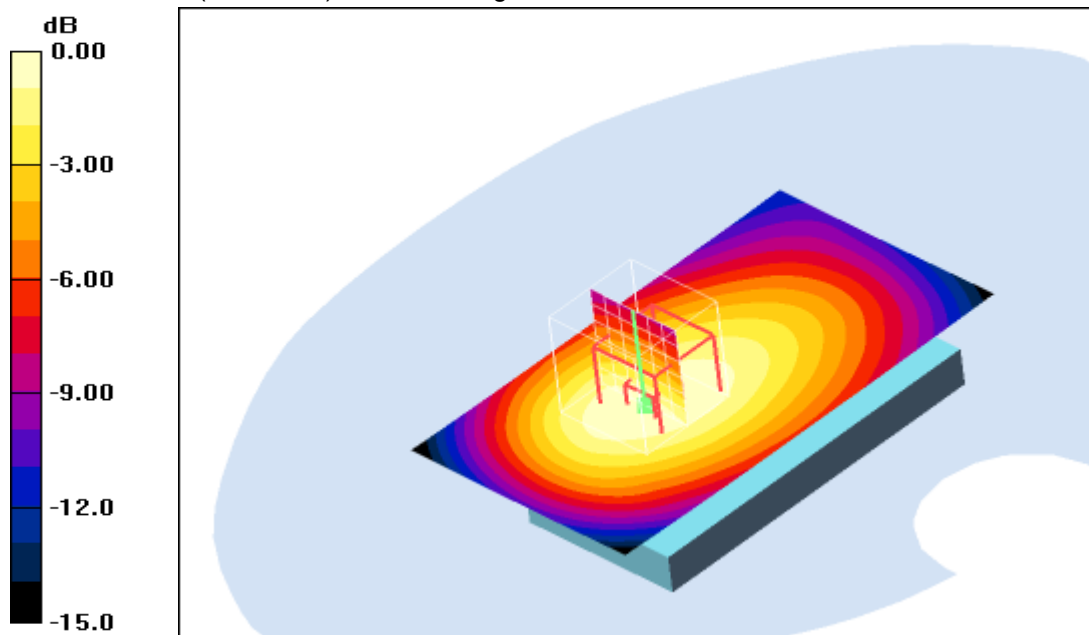
dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.4 V/m; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.207 mW/g

Maximum value of SAR (measured) = 0.310 mW/g



0 dB = 0.310mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-10 15:46:48 Date/Time: 2010-03-10 15:53:21

IEEE1528_OET65-Body-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: M850 Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.416 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

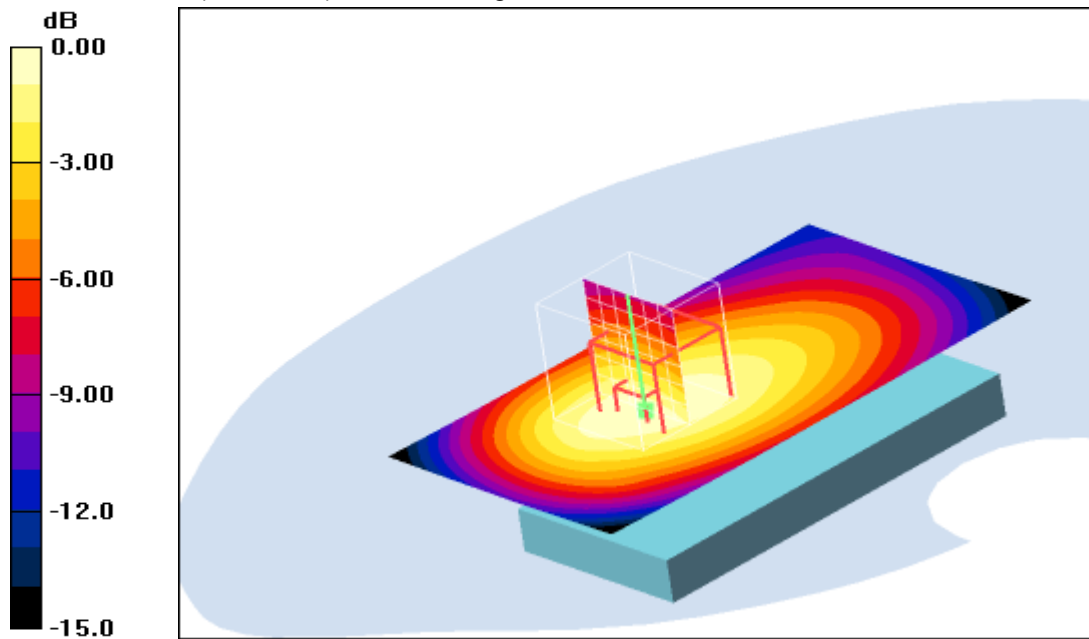
dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.4 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 0.536 W/kg

SAR(1 g) = 0.393 mW/g; SAR(10 g) = 0.278 mW/g

Maximum value of SAR (measured) = 0.423 mW/g



0 dB = 0.423mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-10 15:27:00 Date/Time: 2010-03-10 15:33:30

IEEE1528_OET65-Body-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: M850 Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.431 mW/g

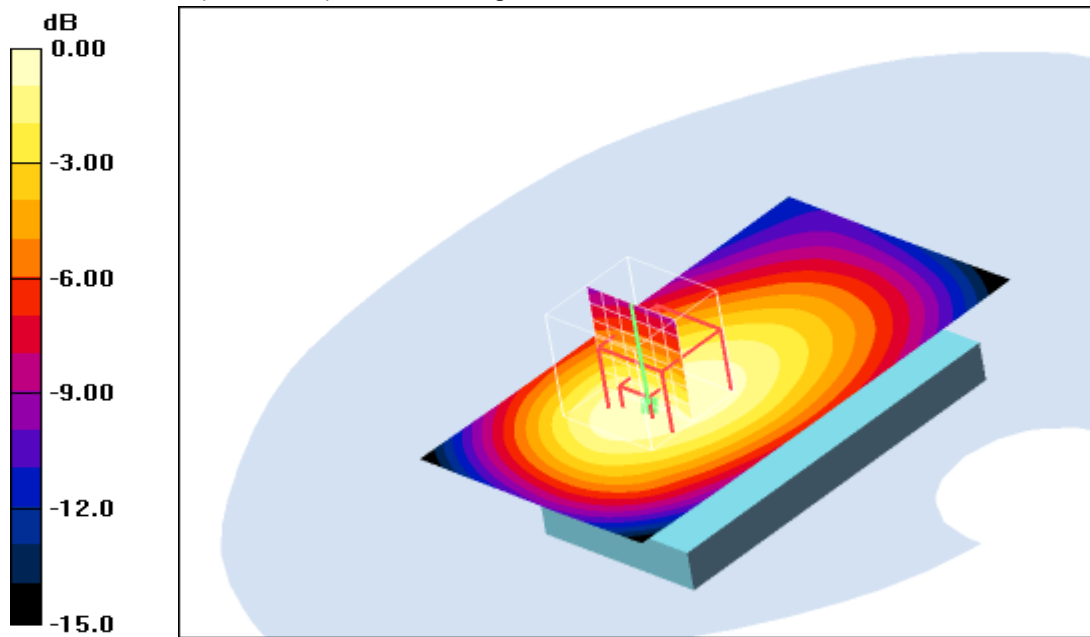
Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.5 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.384 mW/g; SAR(10 g) = 0.272 mW/g

Maximum value of SAR (measured) = 0.412 mW/g



0 dB = 0.412mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-10 14:19:00 Date/Time: 2010-03-10 14:25:22

IEEE1528_OET65-Body-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: M850 Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.515 mW/g

Rear position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

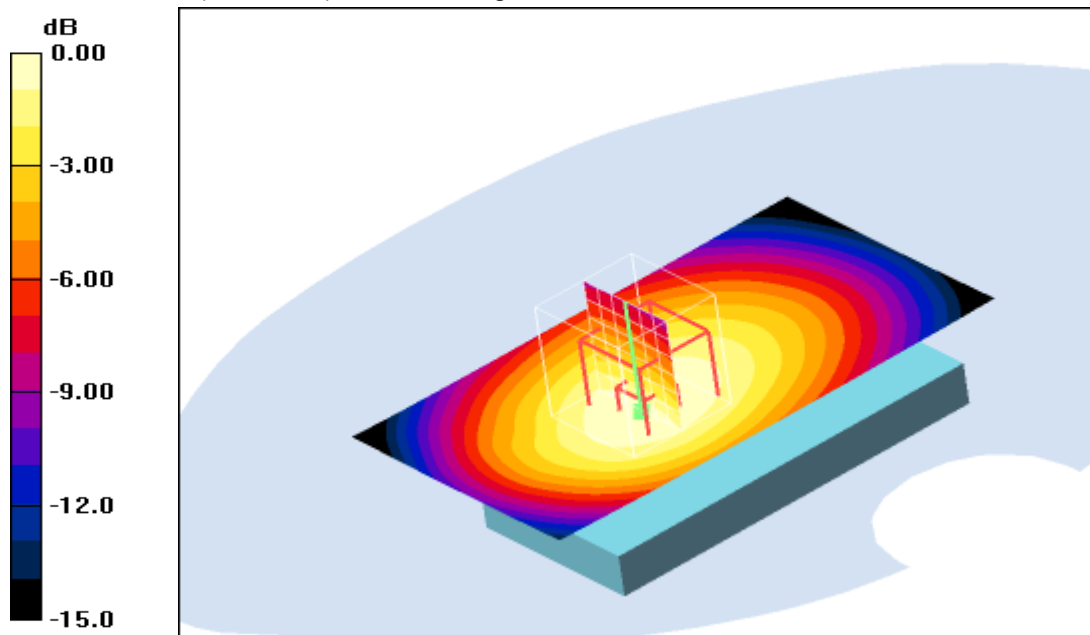
dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.8 V/m; Power Drift = -0.116 dB

Peak SAR (extrapolated) = 0.636 W/kg

SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.336 mW/g

Maximum value of SAR (measured) = 0.504 mW/g



0 dB = 0.504mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-10 14:39:41 Date/Time: 2010-03-10 14:46:13

IEEE1528_OET65-Body-UMTS-FDD-V

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: M850 Medium parameters used (interpolated): $f = 836.4$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.634 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

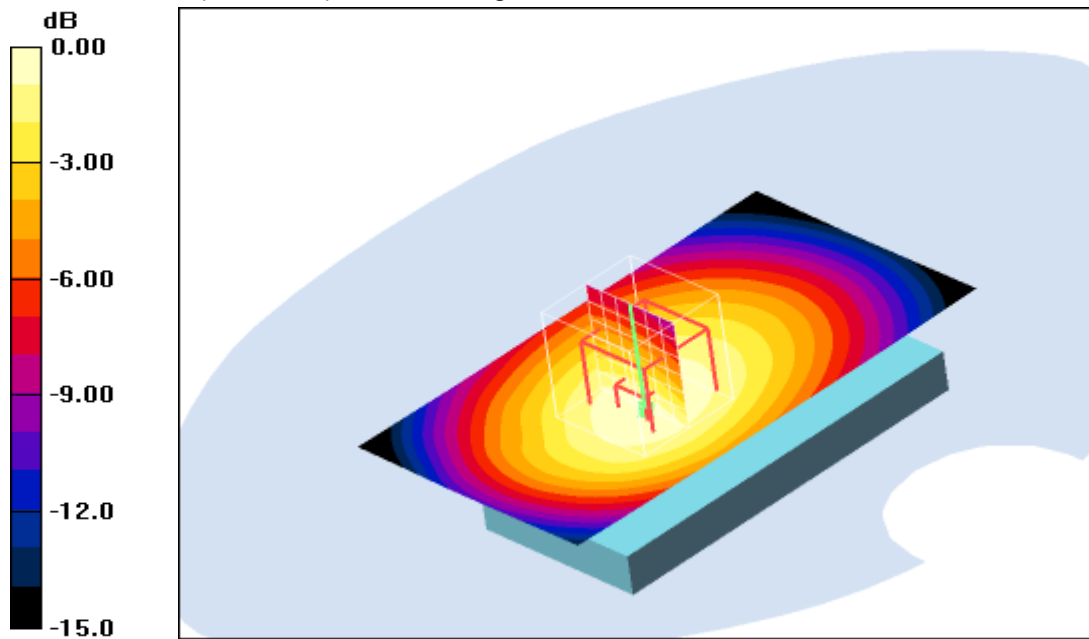
dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.4 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 0.807 W/kg

SAR(1 g) = 0.606 mW/g; SAR(10 g) = 0.433 mW/g

Maximum value of SAR (measured) = 0.643 mW/g



0 dB = 0.643mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Date/Time: 2010-03-10 15:00:31 Date/Time: 2010-03-10 15:06:56

IEEE1528_OET65-Body-UMTS-FDD-V**DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6MK**

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: M850 Medium parameters used (interpolated): $f = 846.6$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.78, 5.78, 5.78); Calibrated: 2009-08-21

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn413; Calibrated: 2010-01-04

- Phantom: SAM 12; Type: SAM; Serial: 1043

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.689 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

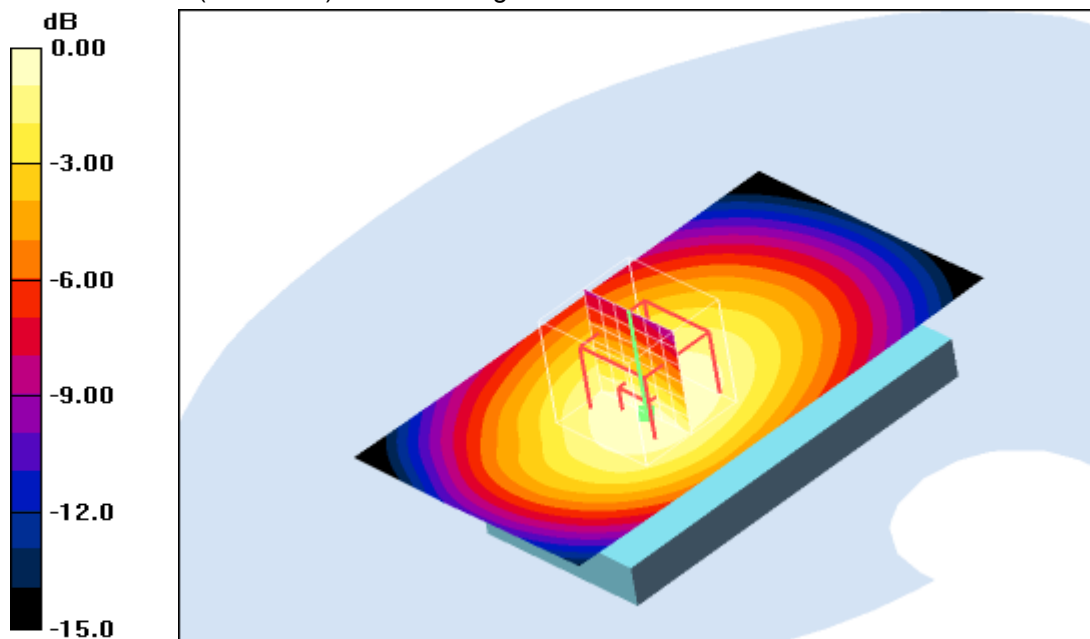
dx=5mm, dy=5mm, dz=5mm

Reference Value = 27.6 V/m; Power Drift = -0.125 dB

Peak SAR (extrapolated) = 0.852 W/kg

SAR(1 g) = 0.644 mW/g; SAR(10 g) = 0.456 mW/g

Maximum value of SAR (measured) = 0.683 mW/g



0 dB = 0.683mW/g

Additional information:

position or distance of DUT to SAM : 15 mm

ambient temperature: 22.8°C; liquid temperature: 21.1°C

Annex B.9: WLAN 2450 MHz head

Date/Time: 2010-03-04 10:32:32 Date/Time: 2010-03-04 10:39:09

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.722 mW/g

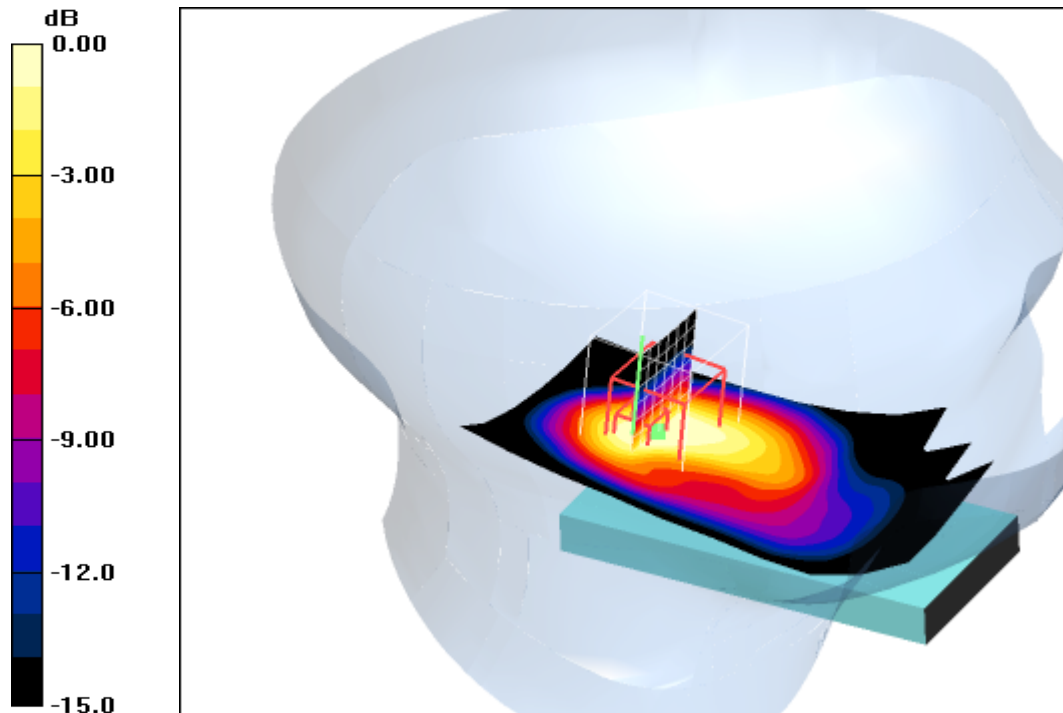
Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.3 V/m; Power Drift = -0.167 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.535 mW/g; SAR(10 g) = 0.254 mW/g

Maximum value of SAR (measured) = 0.587 mW/g



0 dB = 0.587mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 13:24:40 Date/Time: 2010-03-04 13:32:00

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.697 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

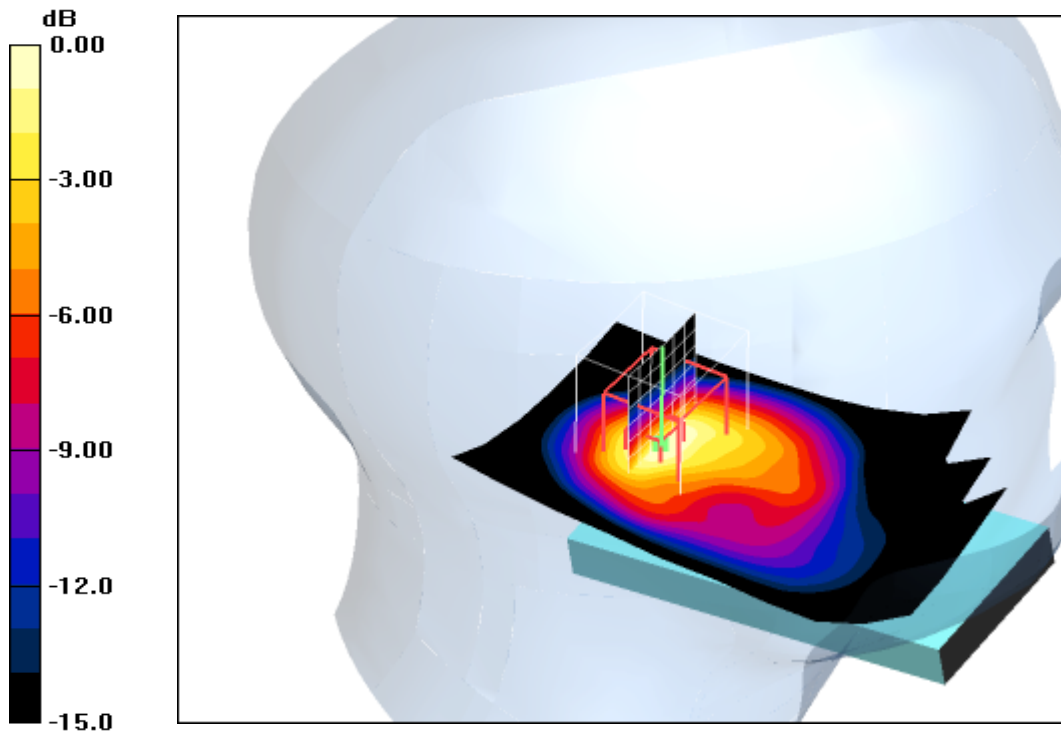
dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.564 mW/g; SAR(10 g) = 0.245 mW/g

Maximum value of SAR (measured) = 0.618 mW/g



0 dB = 0.618mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 13:49:37 Date/Time: 2010-03-04 13:56:23

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.932 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

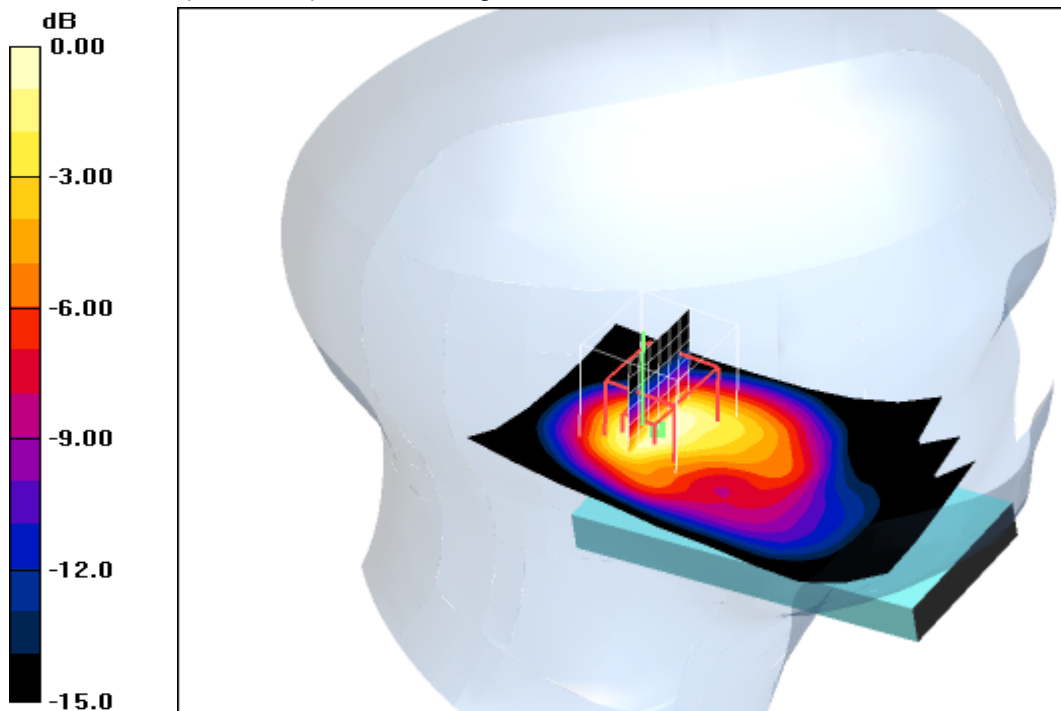
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.0 V/m; Power Drift = -0.117 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.742 mW/g; SAR(10 g) = 0.332 mW/g

Maximum value of SAR (measured) = 0.800 mW/g



0 dB = 0.800mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 10:54:30 Date/Time: 2010-03-04 11:01:13

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.610 mW/g

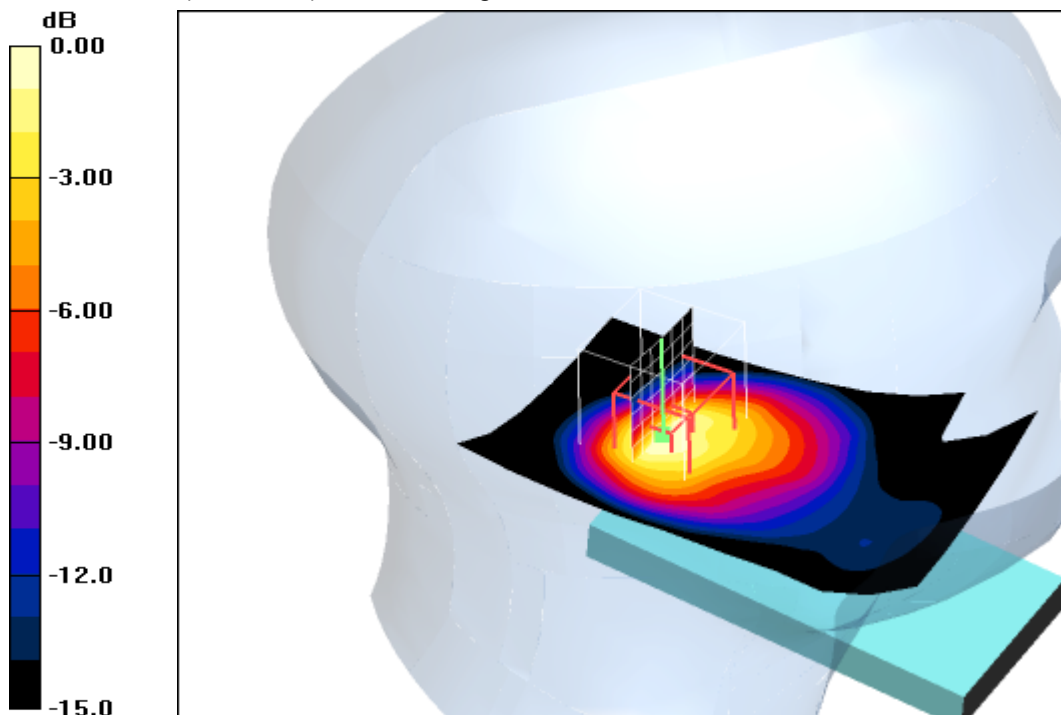
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.2 V/m; Power Drift = -0.166 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.204 mW/g

Maximum value of SAR (measured) = 0.521 mW/g



0 dB = 0.521mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 13:02:56 Date/Time: 2010-03-04 13:10:52

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.542 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

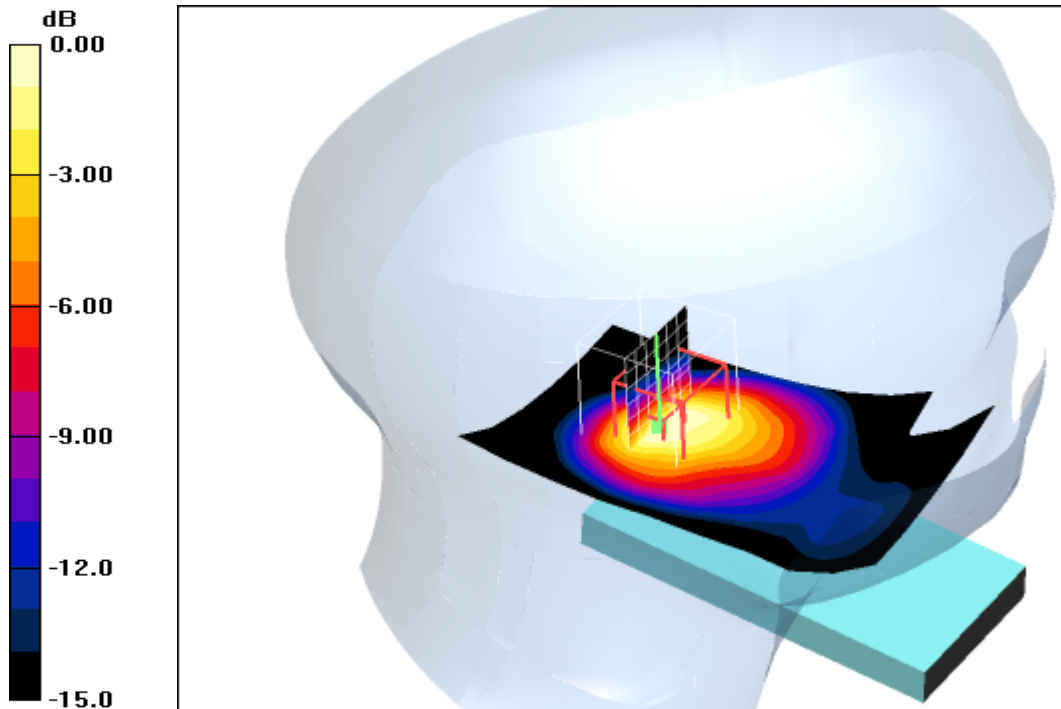
dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.3 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.187 mW/g

Maximum value of SAR (measured) = 0.454 mW/g



0 dB = 0.454mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 14:10:38 Date/Time: 2010-03-04 14:17:21

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.742 mW/g

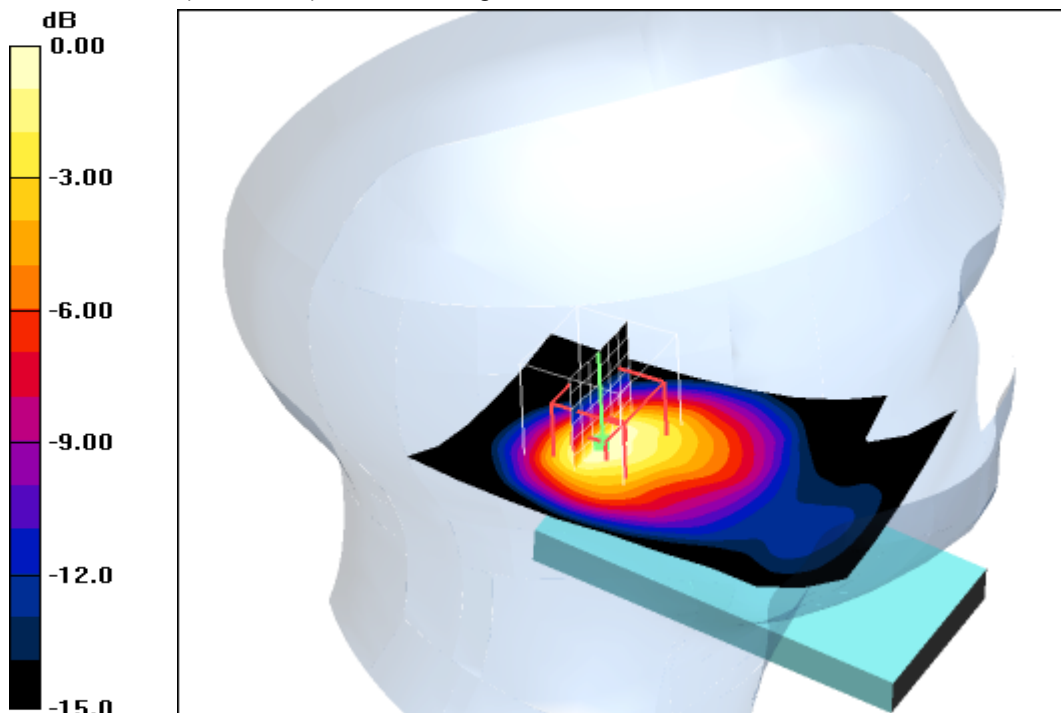
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.2 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.552 mW/g; SAR(10 g) = 0.249 mW/g

Maximum value of SAR (measured) = 0.606 mW/g



0 dB = 0.606mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 15:49:13 Date/Time: 2010-03-04 15:56:34

IEEE1528_OET65-LeftHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High 6Mbps/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.504 mW/g

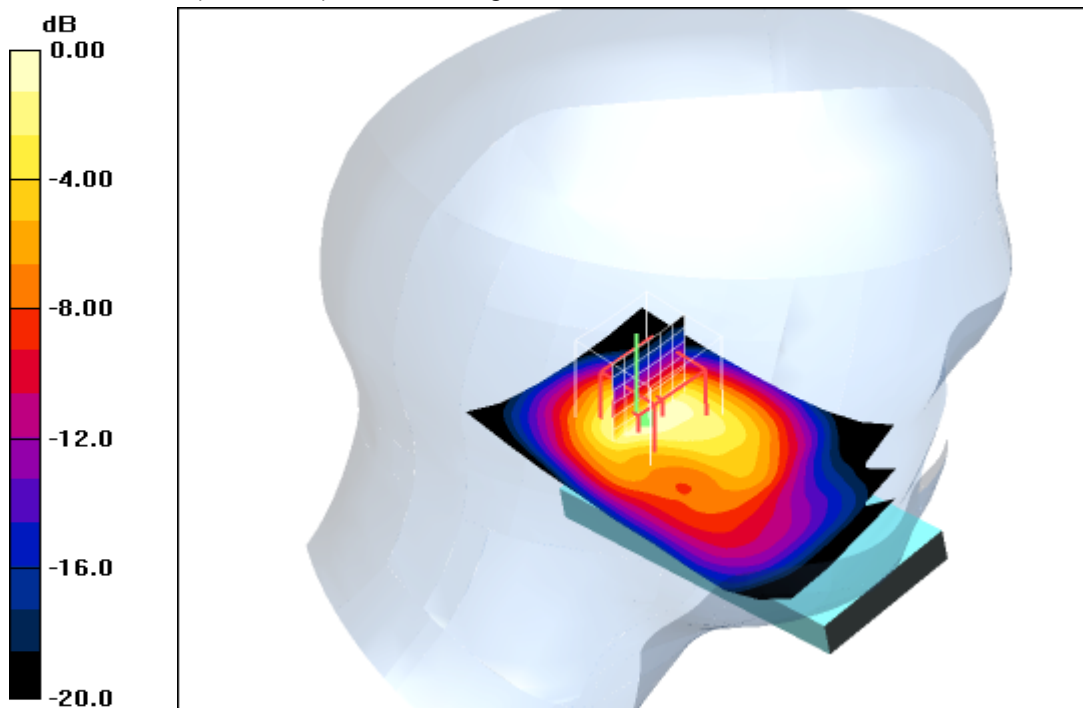
Touch position - High 6Mbps/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.7 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.437 mW/g; SAR(10 g) = 0.202 mW/g

Maximum value of SAR (measured) = 0.472 mW/g



0 dB = 0.472mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 11:57:17 Date/Time: 2010-03-04 12:03:50

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.391 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

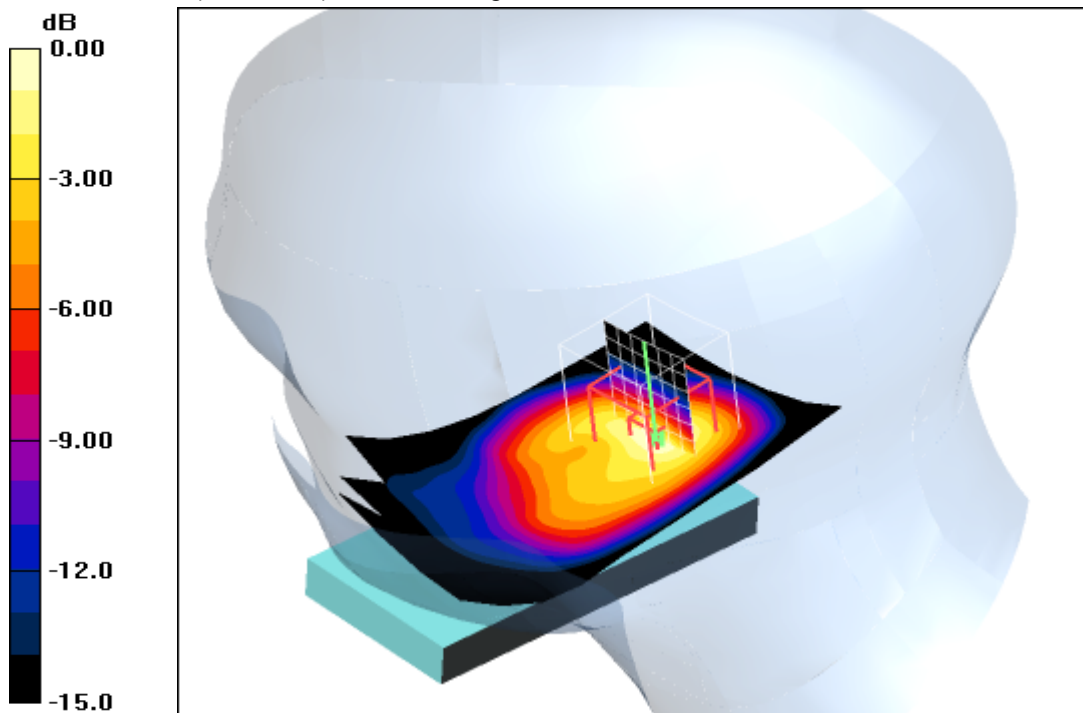
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.1 V/m; Power Drift = 0.018 dB

Peak SAR (extrapolated) = 0.934 W/kg

SAR(1 g) = 0.386 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.421 mW/g



0 dB = 0.421mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 12:20:40 Date/Time: 2010-03-04 12:27:18

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.502 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

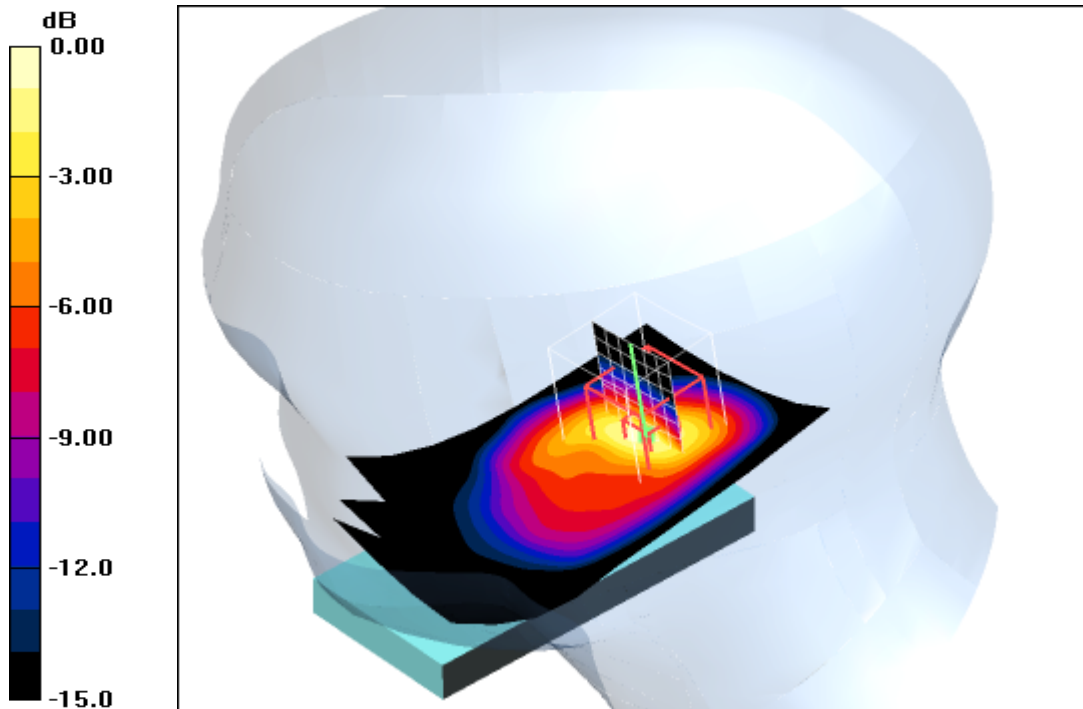
dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.3 V/m; Power Drift = -0.063 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.198 mW/g

Maximum value of SAR (measured) = 0.562 mW/g



0 dB = 0.562mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 14:53:46 Date/Time: 2010-03-04 15:00:23

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.546 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

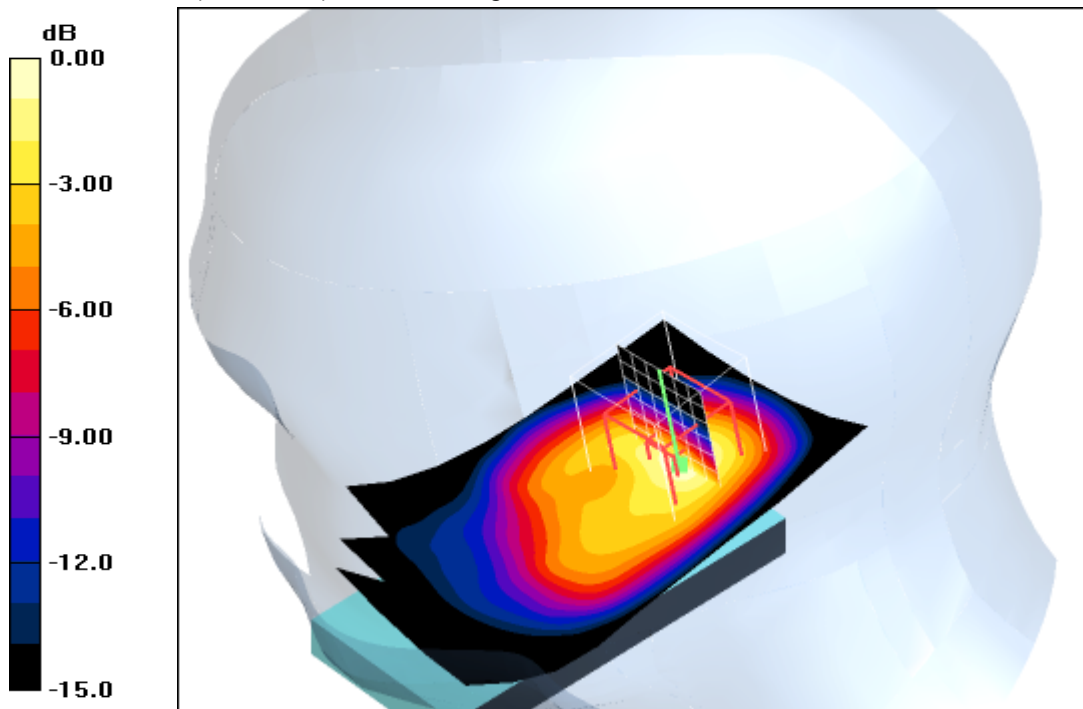
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.0 V/m; Power Drift = 0.108 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.251 mW/g

Maximum value of SAR (measured) = 0.603 mW/g



0 dB = 0.603mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 11:15:15 Date/Time: 2010-03-04 11:40:34

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.391 mW/g

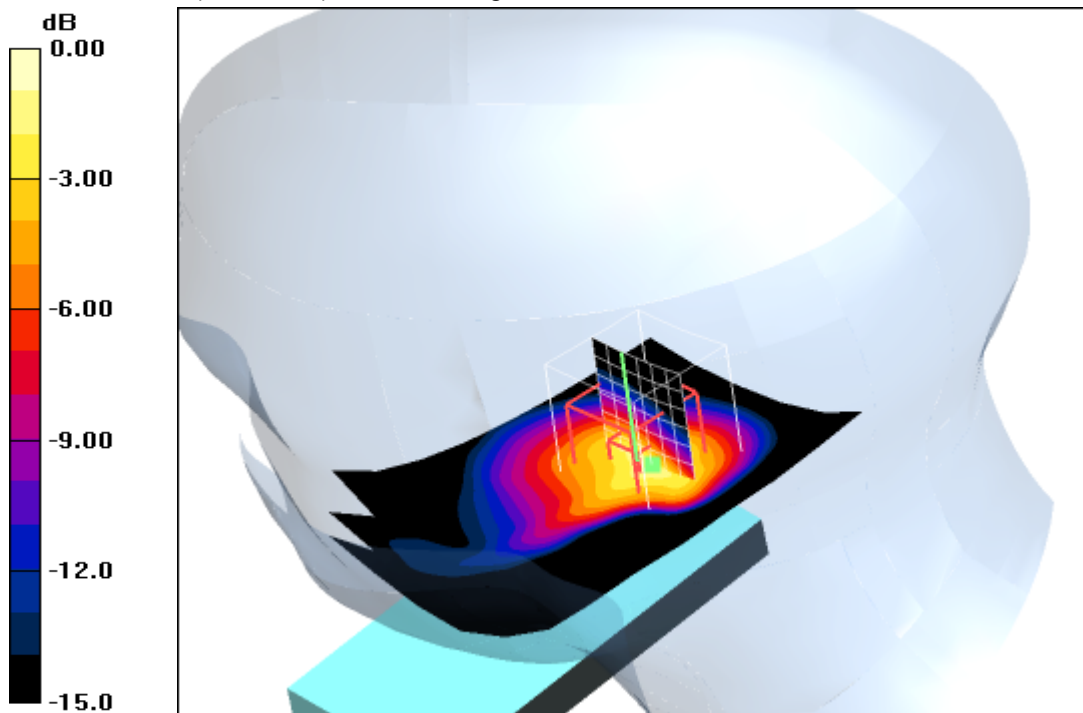
Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.2 V/m; Power Drift = -0.103 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.459 mW/g; SAR(10 g) = 0.204 mW/g

Maximum value of SAR (measured) = 0.532 mW/g



0 dB = 0.532mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 12:41:30 Date/Time: 2010-03-04 12:48:11

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.522 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

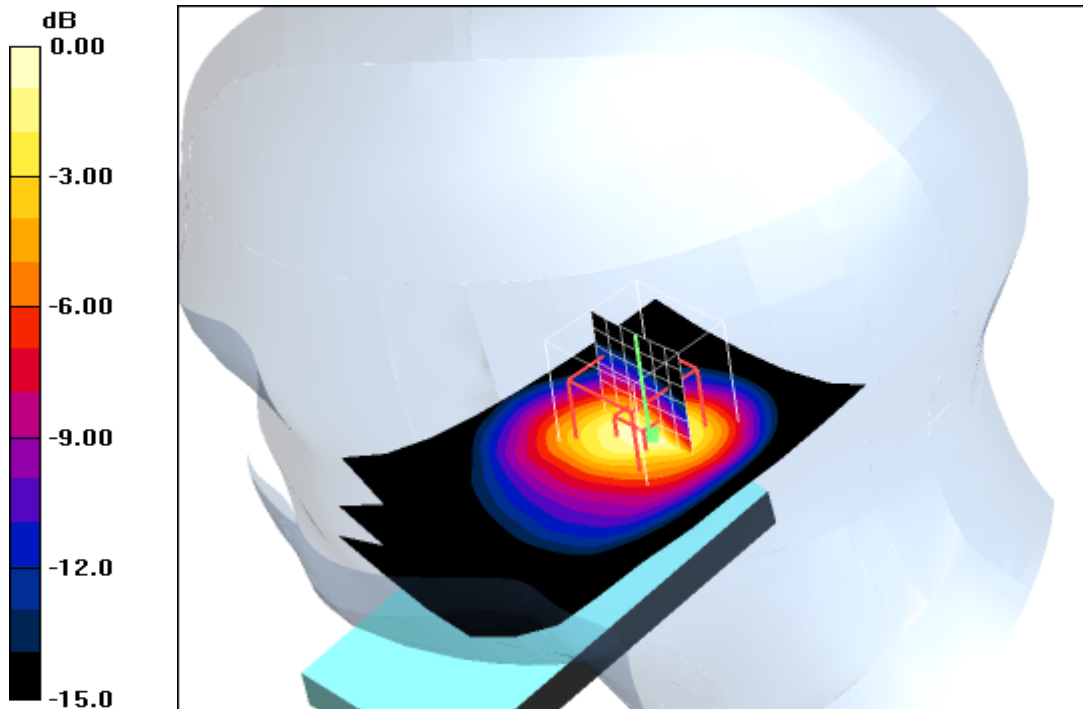
dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.2 V/m; Power Drift = -0.069 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.468 mW/g; SAR(10 g) = 0.204 mW/g

Maximum value of SAR (measured) = 0.534 mW/g



0 dB = 0.534mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Date/Time: 2010-03-04 14:31:54 Date/Time: 2010-03-04 14:39:15

IEEE1528_OET65-RightHandSide-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: HSL2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.89 \text{ mho/m}$; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.16, 4.16, 4.16); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.492 mW/g

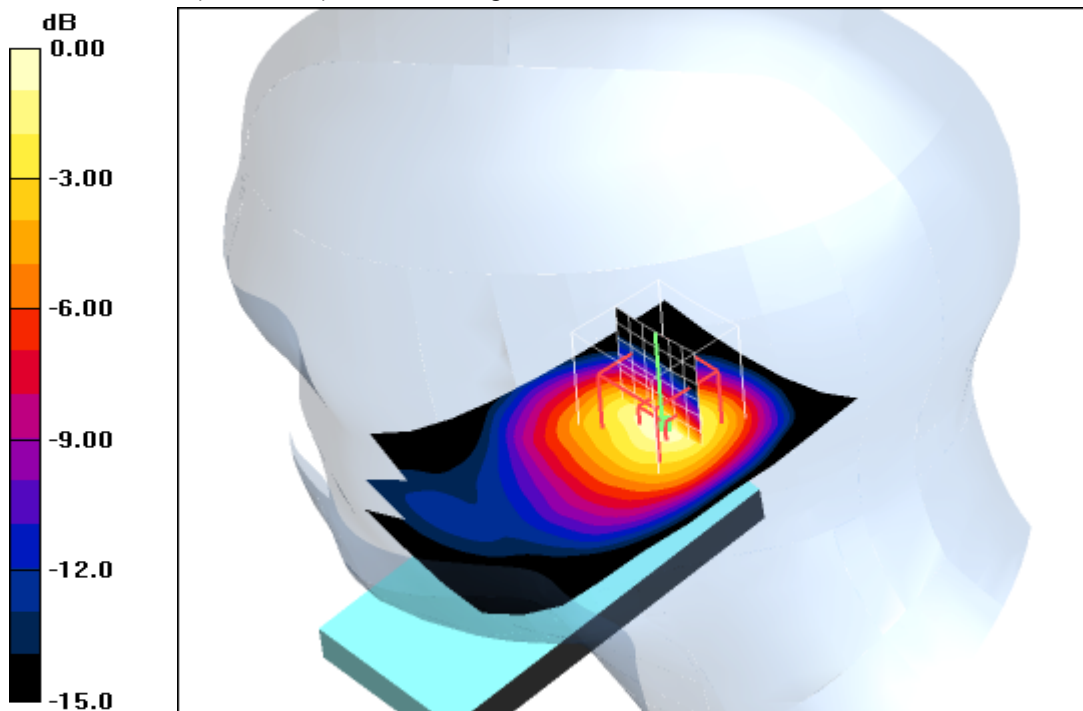
Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 15.3 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 1.07 W/kg

SAR(1 g) = 0.449 mW/g; SAR(10 g) = 0.208 mW/g

Maximum value of SAR (measured) = 0.503 mW/g



0 dB = 0.503mW/g

Additional information:

ambient temperature: 22.8°C; liquid temperature: 21.4°C

Annex B.10: WLAN 2450 MHz body

Date/Time: 2010-03-04 17:23:52 Date/Time: 2010-03-04 17:30:11

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2412 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Low/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.077 mW/g

Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

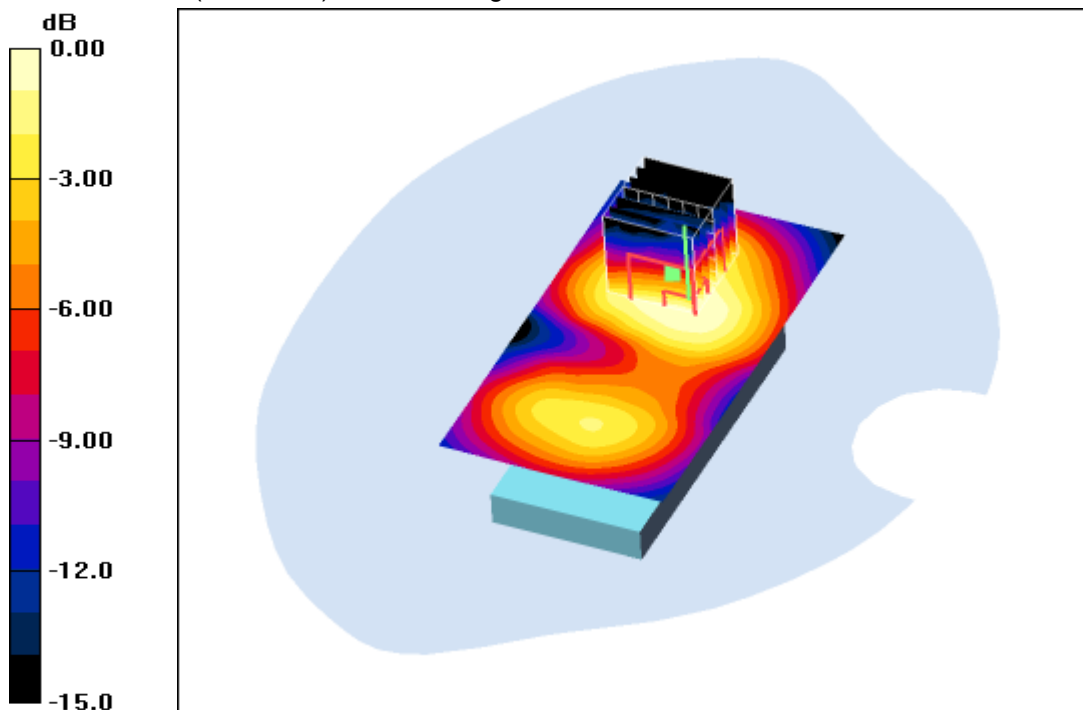
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.15 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.065 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.069 mW/g



0 dB = 0.069mW/g

Additional information:

position or distance of DUT to SAM: with 15 mm distance to the SAM

ambient temperature: 23.3 °C; liquid temperature: 22.0 °C

Date/Time: 2010-03-04 18:36:10 Date/Time: 2010-03-04 18:42:38

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.053 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

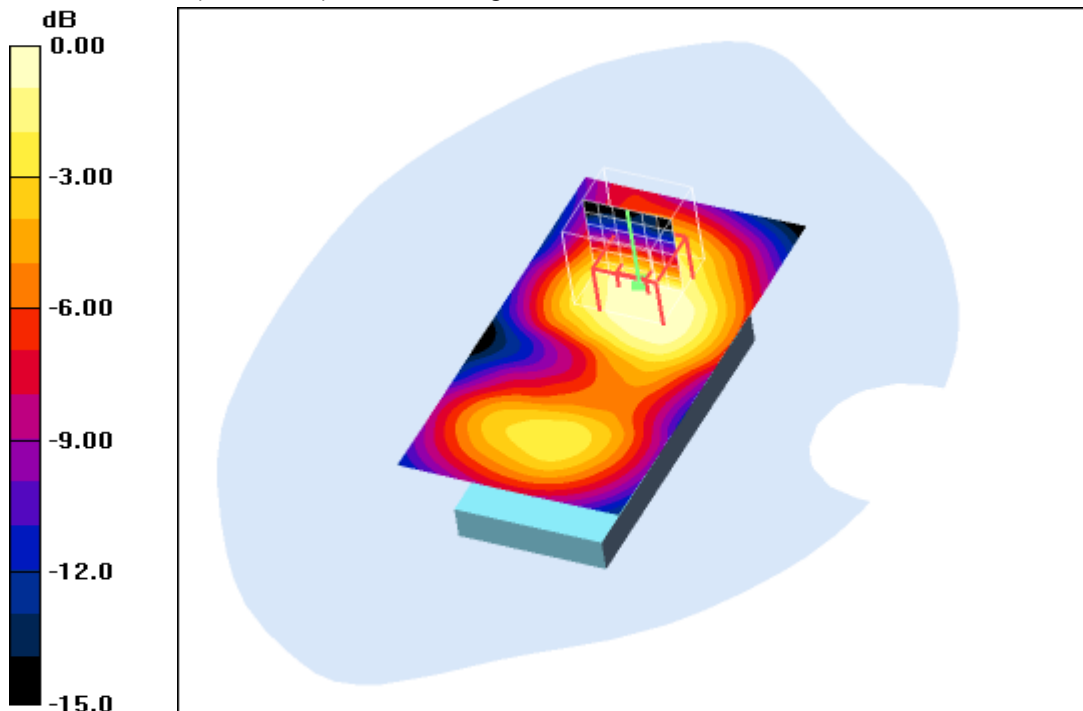
dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.34 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.049 mW/g; SAR(10 g) = 0.028 mW/g

Maximum value of SAR (measured) = 0.052 mW/g



0 dB = 0.052mW/g

Additional information:

position or distance of DUT to SAM: with 15 mm distance to the SAM

ambient temperature: 23.3 °C; liquid temperature: 22.0 °C

Date/Time: 2010-03-04 19:03:59 Date/Time: 2010-03-04 19:10:30

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21

- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn413; Calibrated: 2010-01-04

- Phantom: SAM 12; Type: SAM; Serial: 1043

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.088 mW/g

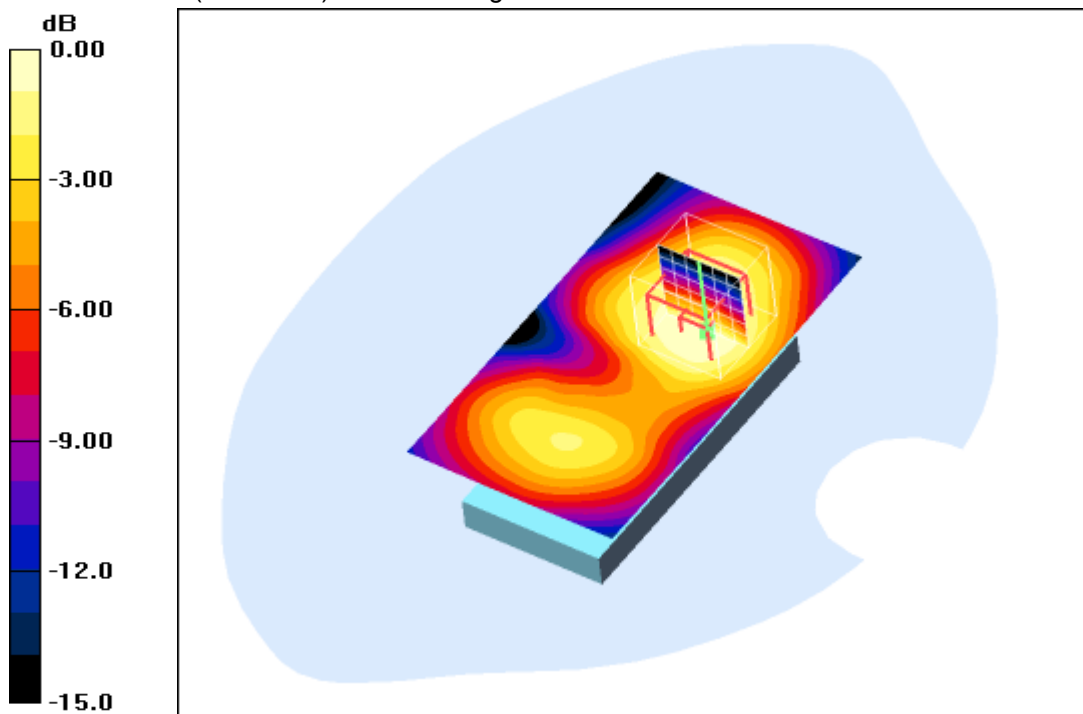
Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.81 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.078 mW/g; SAR(10 g) = 0.044 mW/g

Maximum value of SAR (measured) = 0.082 mW/g



0 dB = 0.082mW/g

Additional information:

position or distance of DUT to SAM : with 15 mm distance to the SAM
ambient temperature: 23.3 °C; liquid temperature: 22.0 °C

Date/Time: 2010-03-04 17:45:02 Date/Time: 2010-03-04 17:51:32

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2412$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.057 mW/g

Rear position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

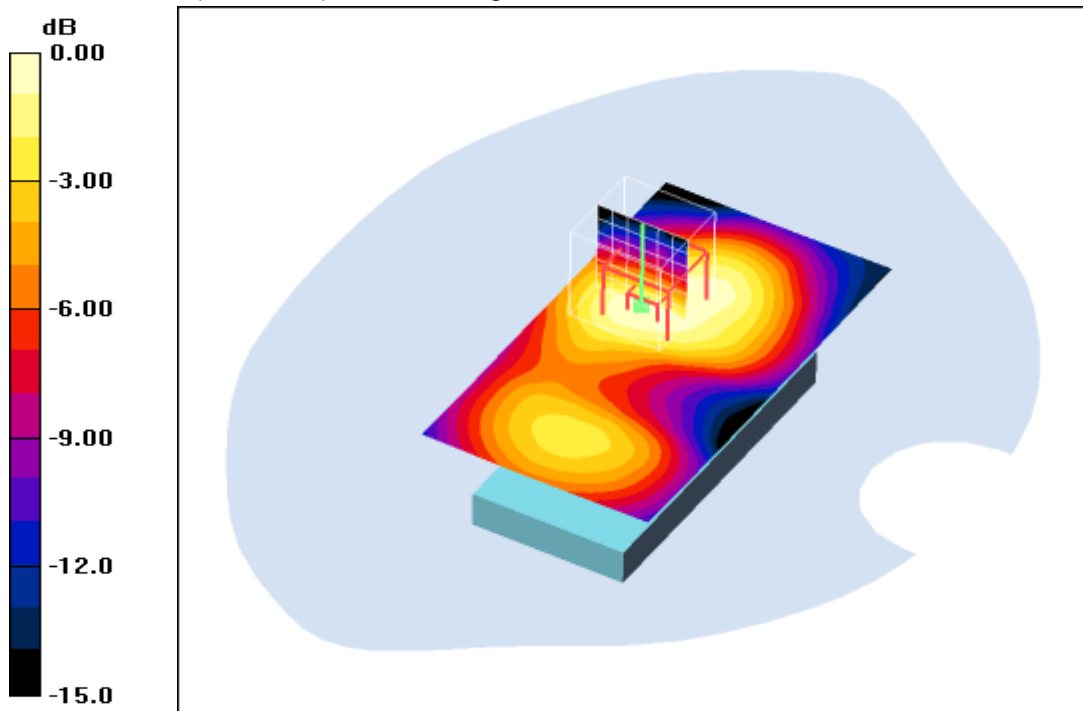
dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.49 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.100 W/kg

SAR(1 g) = 0.054 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.058 mW/g



0 dB = 0.058mW/g

Additional information:

position or distance of DUT to SAM: with 15 mm distance to the SAM

ambient temperature: 23.3 °C; liquid temperature: 22.0 °C

Date/Time: 2010-03-04 18:13:07 Date/Time: 2010-03-04 18:19:31

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.045 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

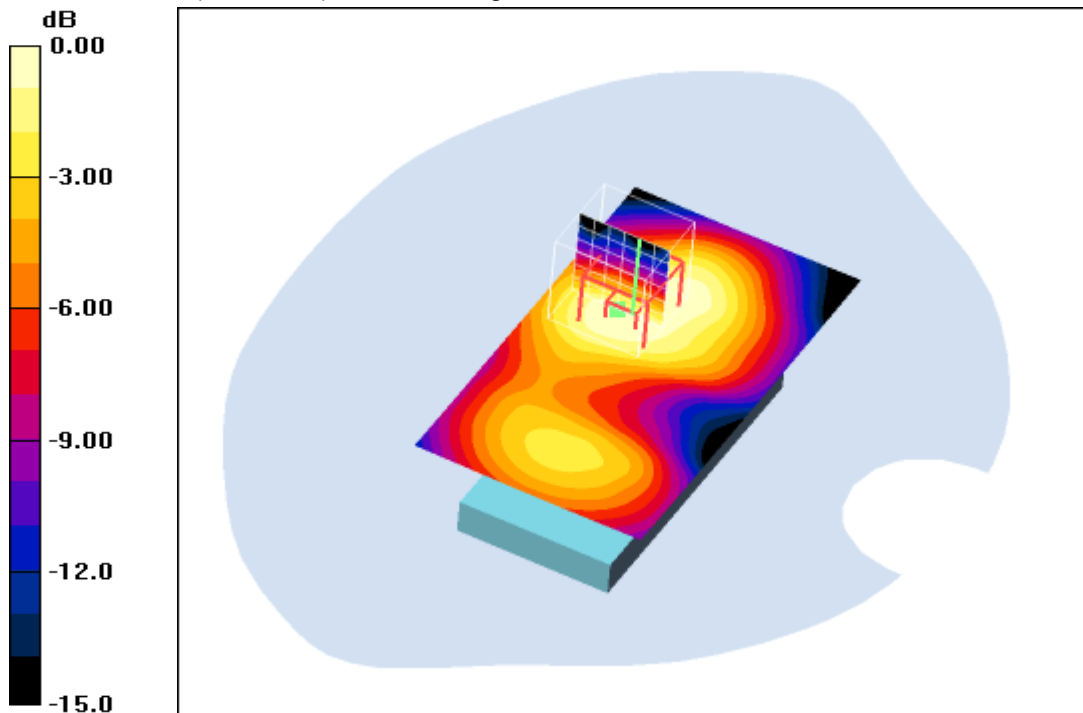
dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.91 V/m; Power Drift = -0.066 dB

Peak SAR (extrapolated) = 0.081 W/kg

SAR(1 g) = 0.043 mW/g; SAR(10 g) = 0.024 mW/g

Maximum value of SAR (measured) = 0.046 mW/g



0 dB = 0.046mW/g

Additional information:

position or distance of DUT to SAM : with 15 mm distance to the SAM

ambient temperature: 23.3 °C; liquid temperature: 22.0 °C

Date/Time: 2010-03-04 19:25:31 Date/Time: 2010-03-04 19:43:39 Date/Time: 2010-03-04 19:32:04

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.049 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.08 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.099 W/kg

SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.024 mW/g

Maximum value of SAR (measured) = 0.048 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

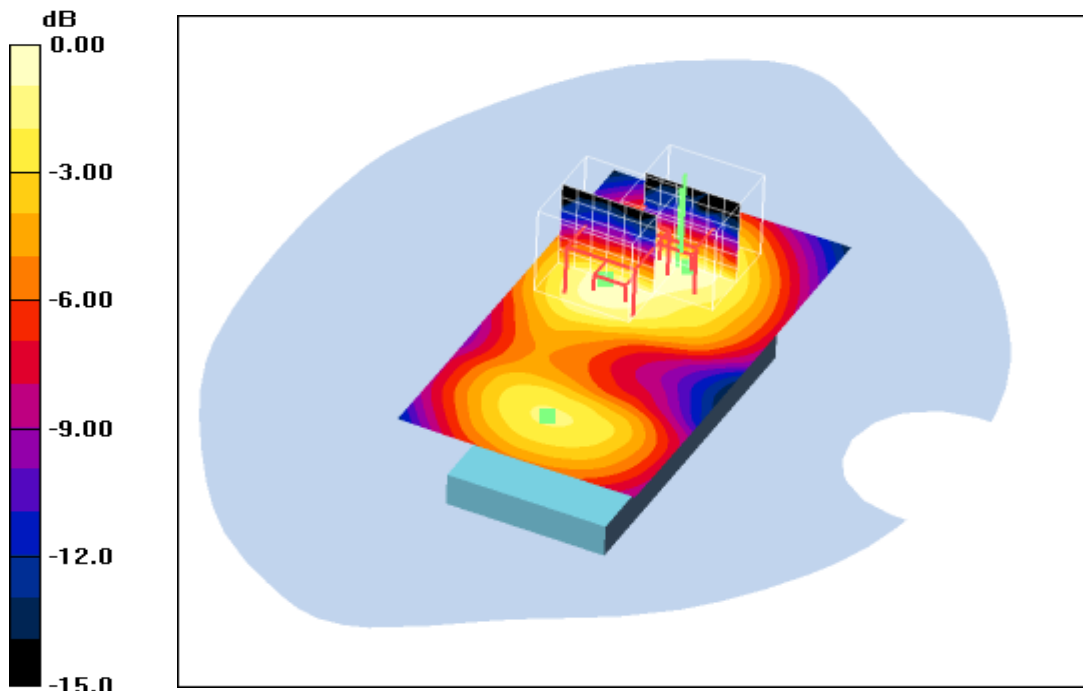
dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.08 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.100 W/kg

SAR(1 g) = 0.047 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.050 mW/g



Additional information:

position or distance of DUT to SAM : with 15 mm distance to the SAM

ambient temperature: 23.3 °C; liquid temperature: 22.0 °C

Date/Time: 2010-03-04 21:05:15 Date/Time: 2010-03-04 21:11:58 Date/Time: 2010-03-04 21:23:32

IEEE1528_OET65-Body-WLAN

DUT: Sony Ericsson; Type: AAD-3880070-BV; Serial: BX901AZ6NK

Communication System: WLAN 2450 US; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used (interpolated): $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(3.96, 3.96, 3.96); Calibrated: 2009-08-21
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 2010-01-04
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - High Ch11 6Mbit/s/Area Scan (51x91x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (interpolated) = 0.048 mW/g

Front position - High Ch11 6Mbit/s/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.05 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.091 W/kg

SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.025 mW/g

Maximum value of SAR (measured) = 0.047 mW/g

Front position - High Ch11 6Mbit/s/Zoom Scan (7x7x7) (7x7x7)/Cube 1:

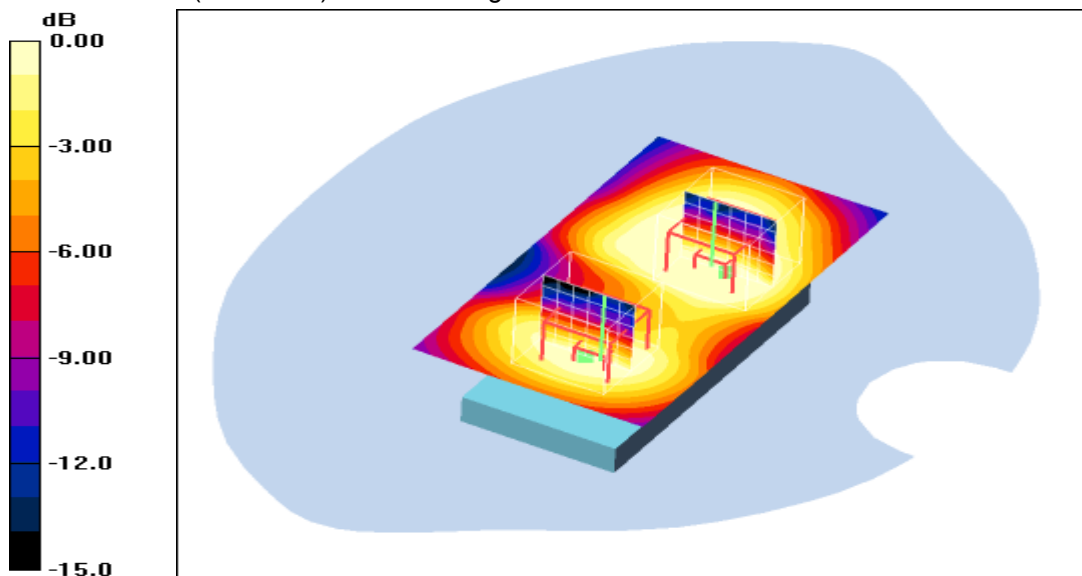
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.05 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.058 W/kg

SAR(1 g) = 0.030 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.032 mW/g

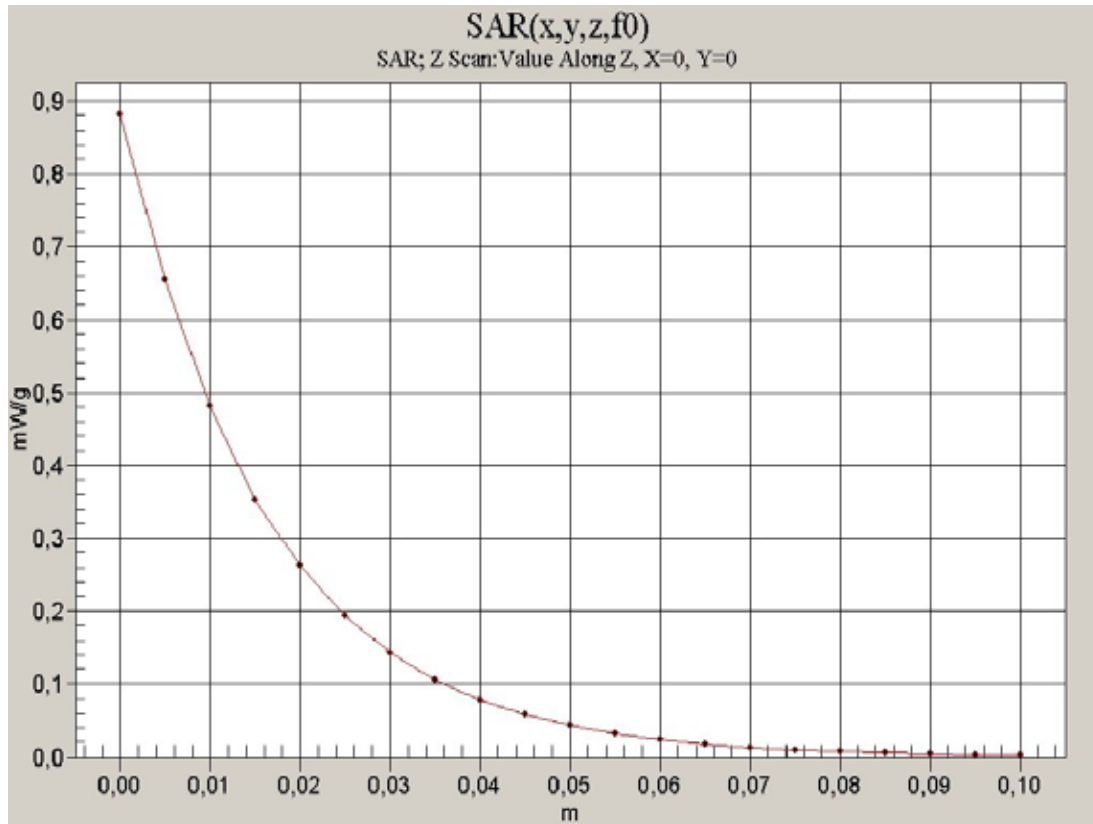


Additional information:

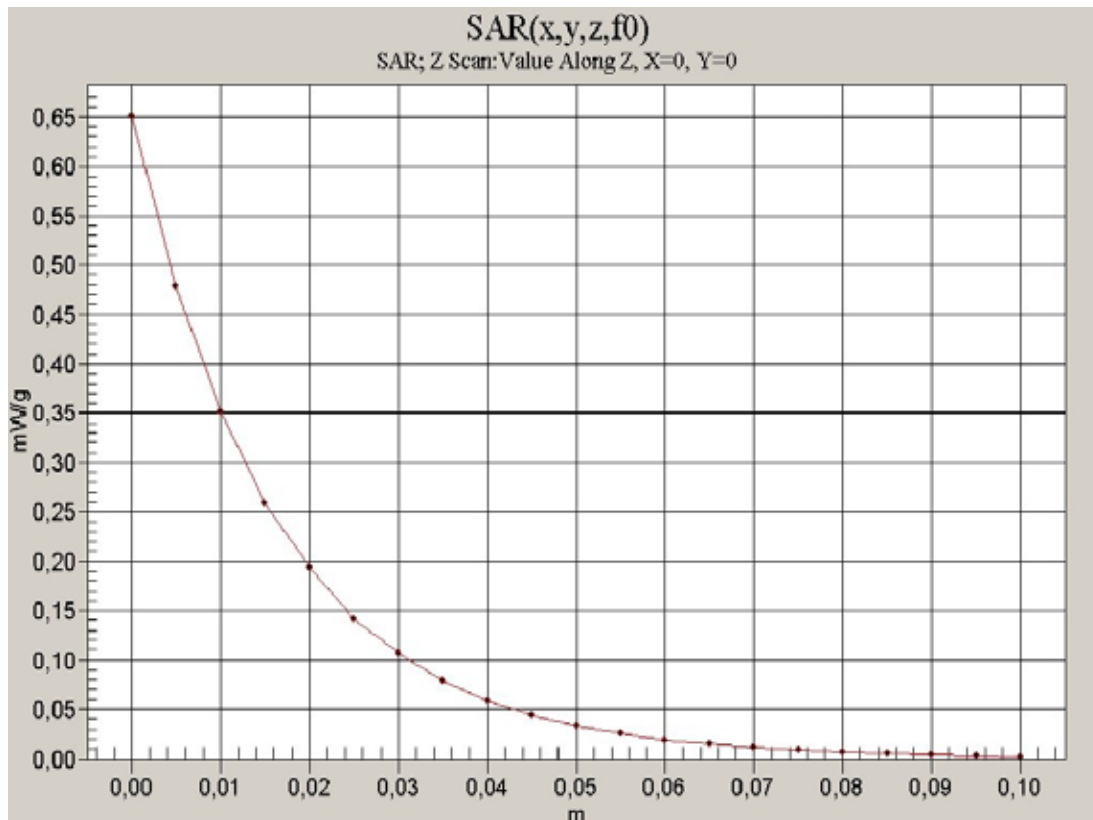
position or distance of DUT to SAM: with 15 mm distance to the SAM

ambient temperature: 23.3 °C; liquid temperature: 22.0 °C

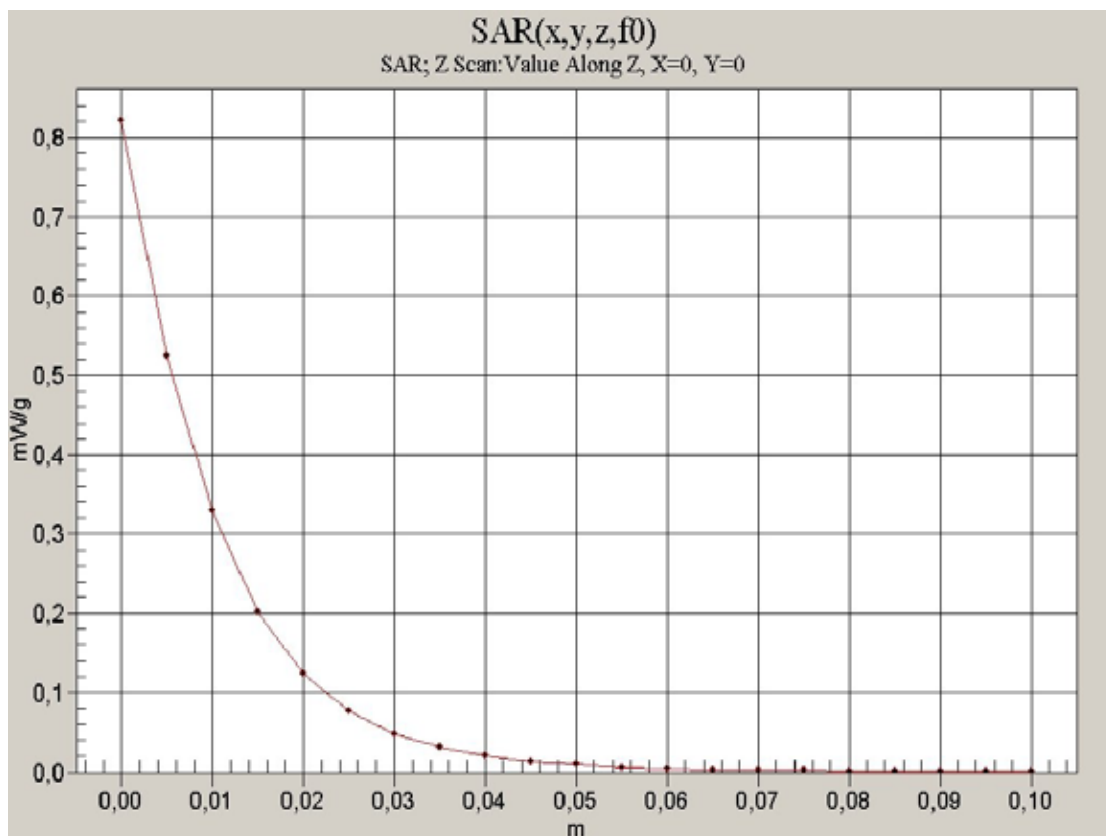
Annex B.11: Z-axis scan



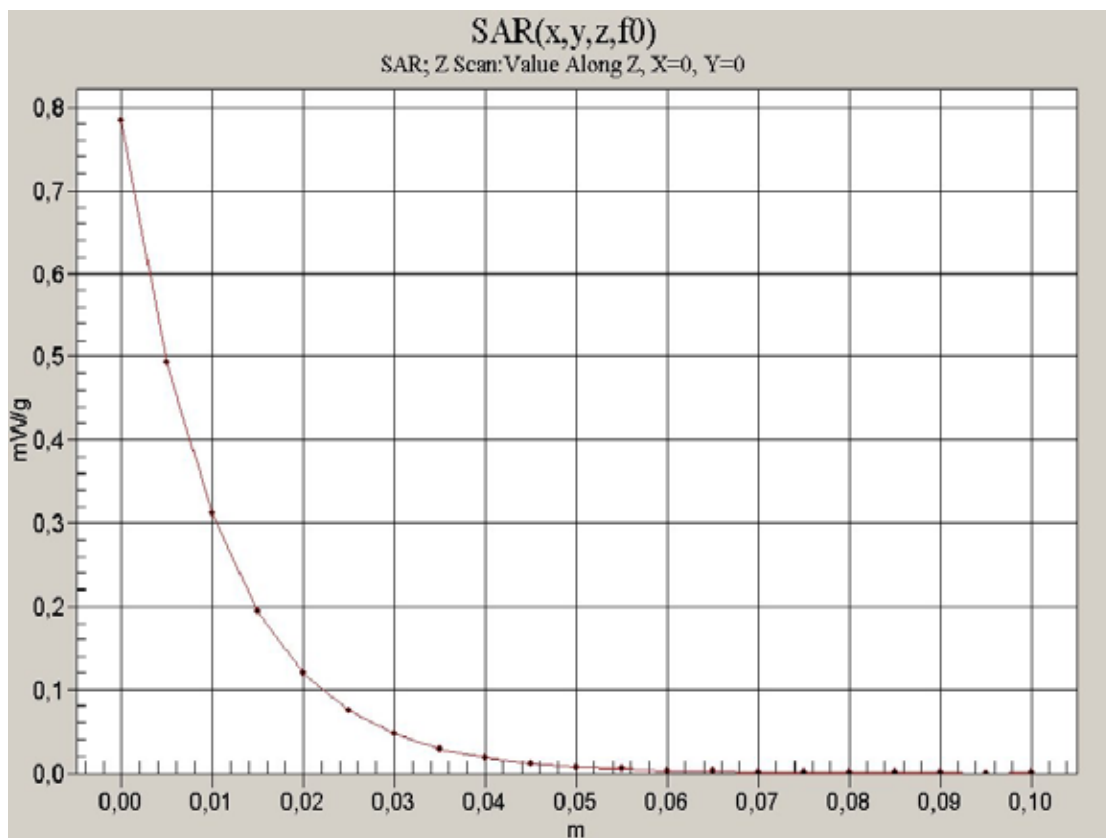
850 head



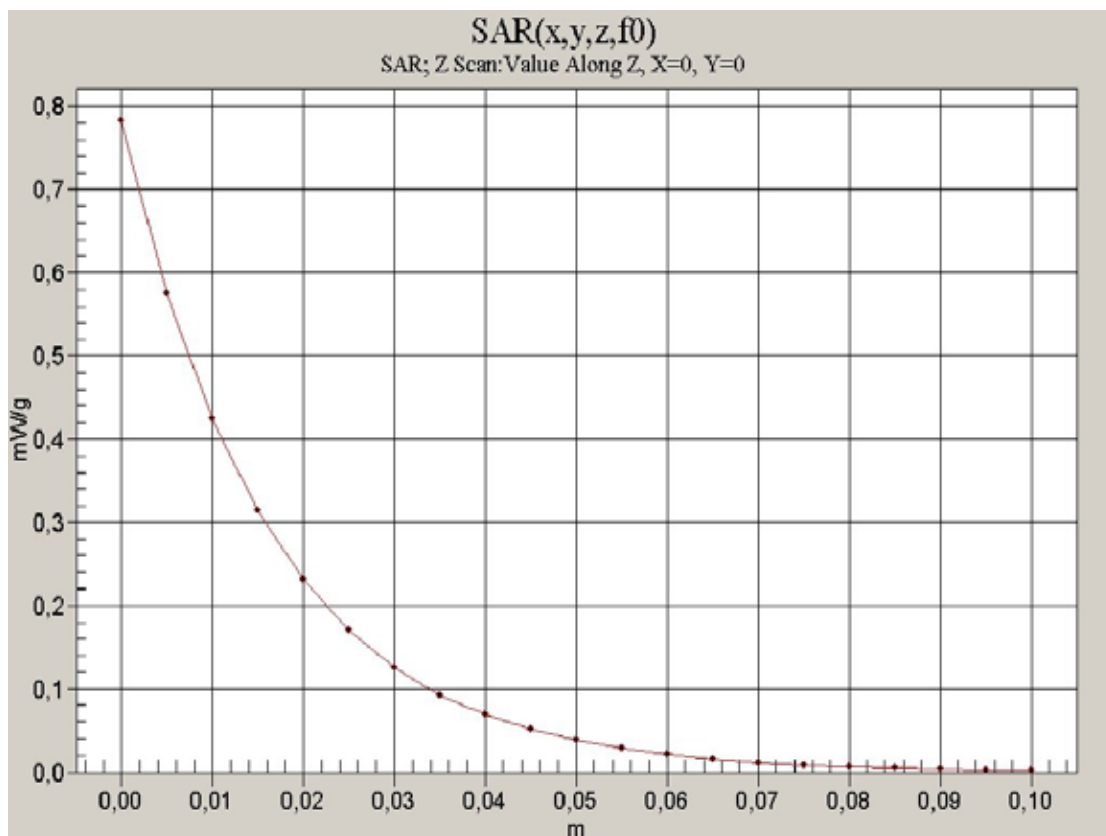
850 body



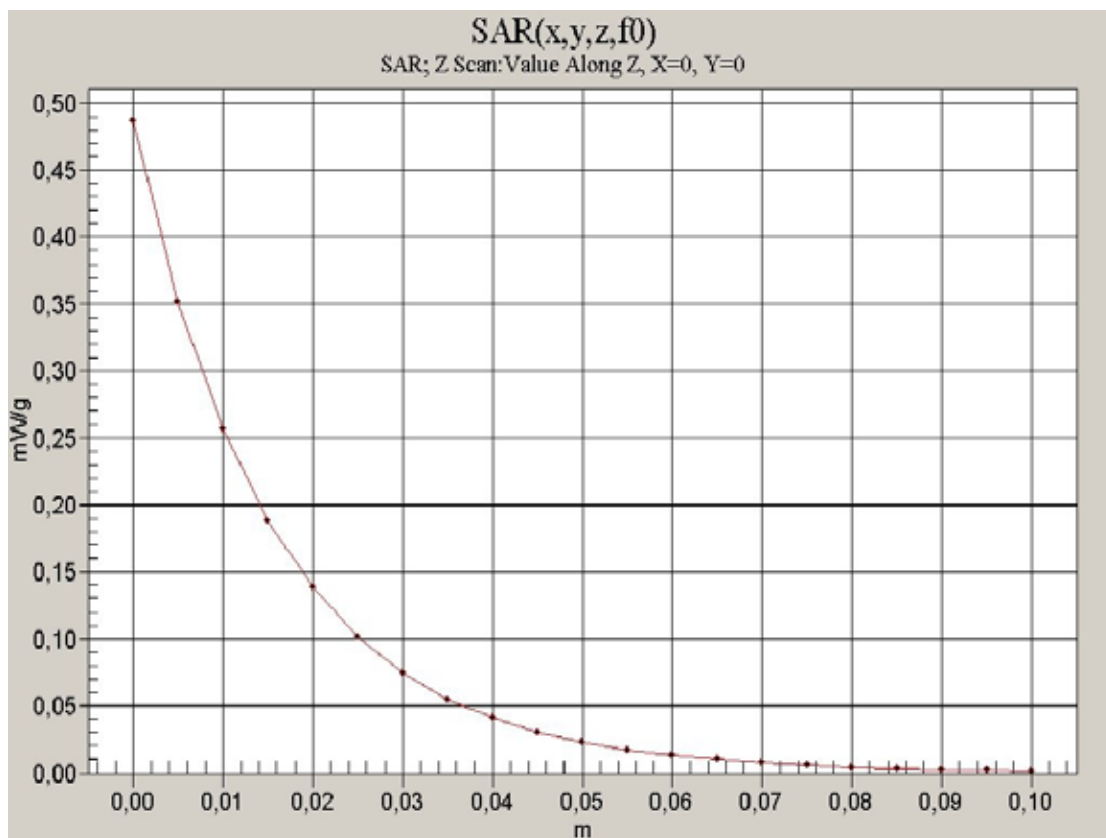
1900 head



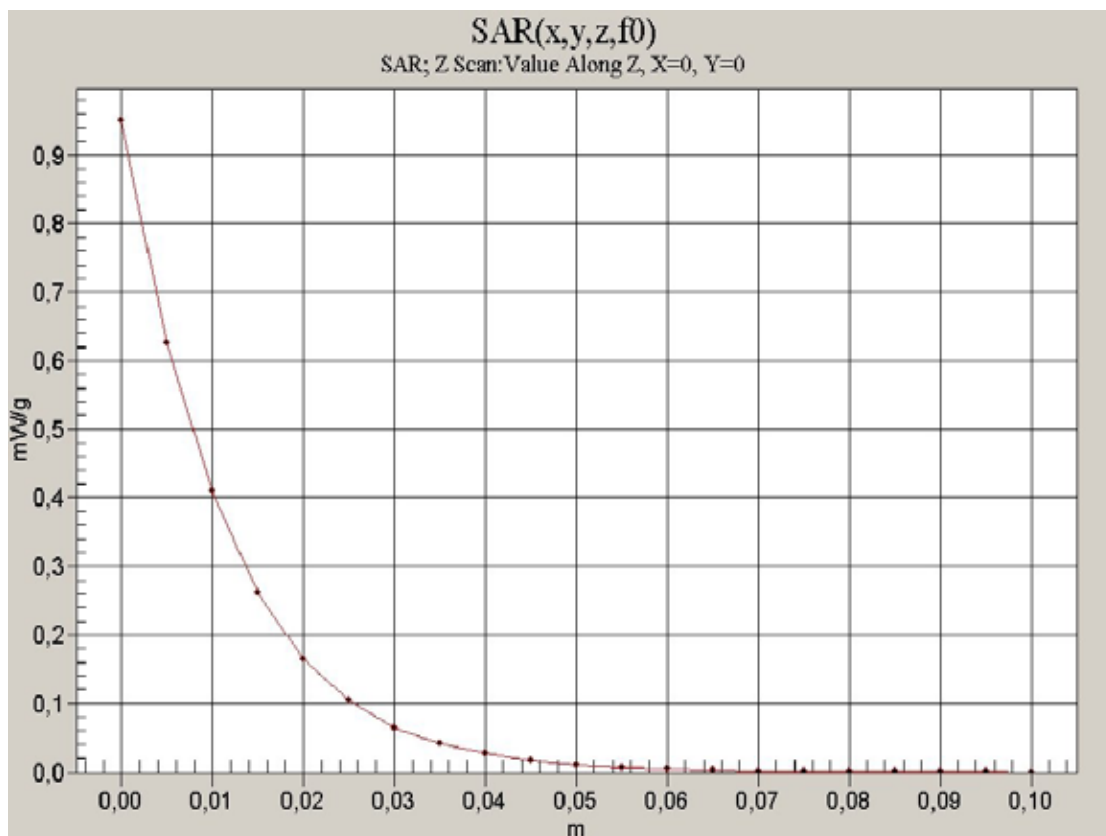
1900 body



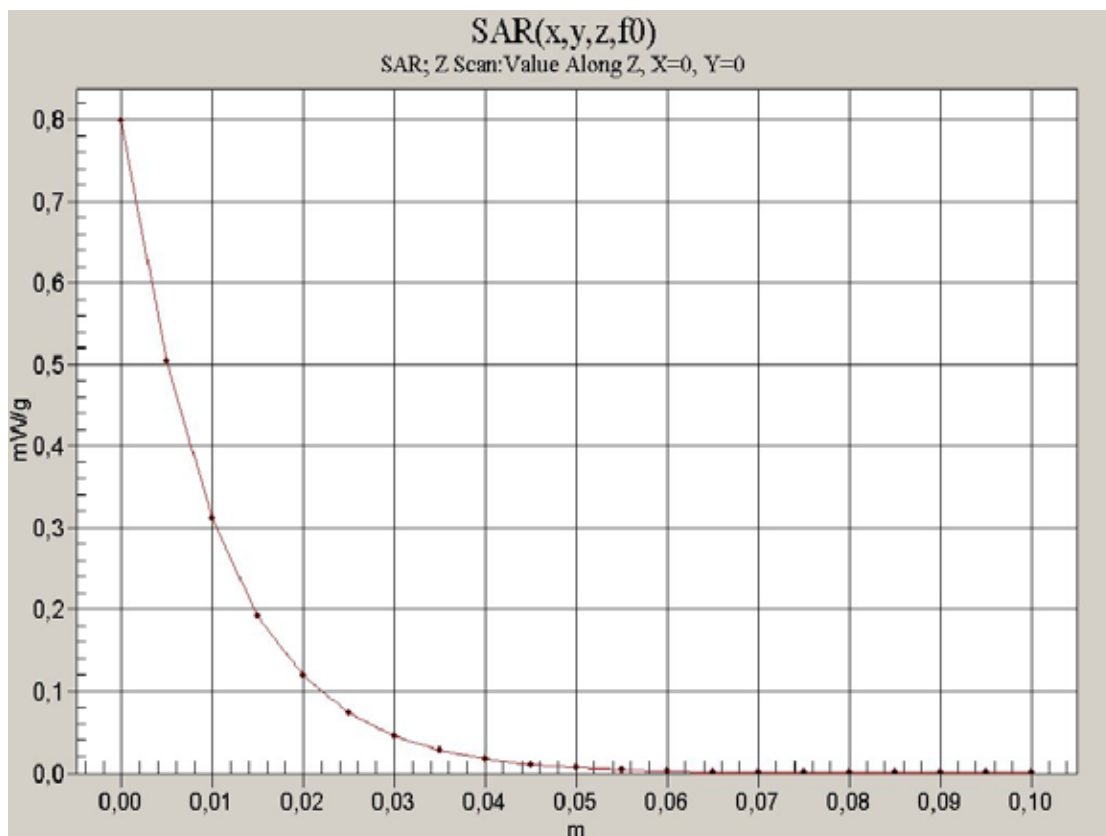
WCDMA FDD V 850MHz head



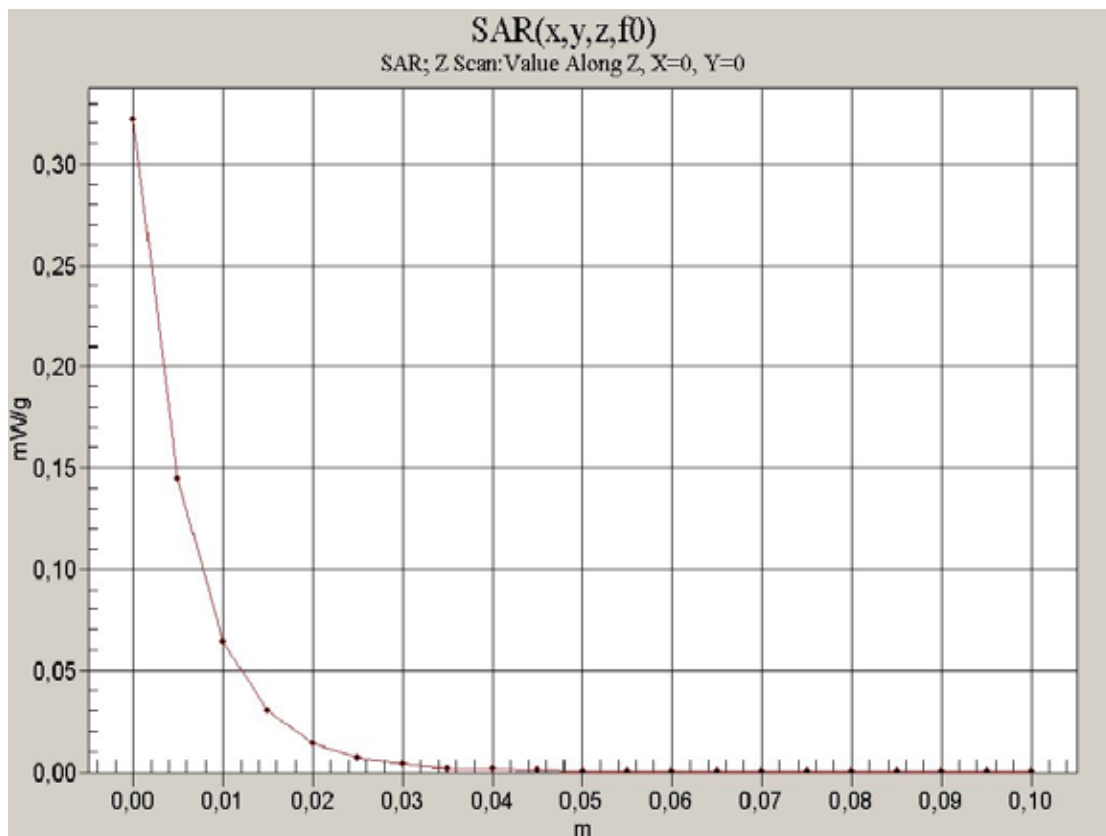
WCDMA FDD V 850MHz body



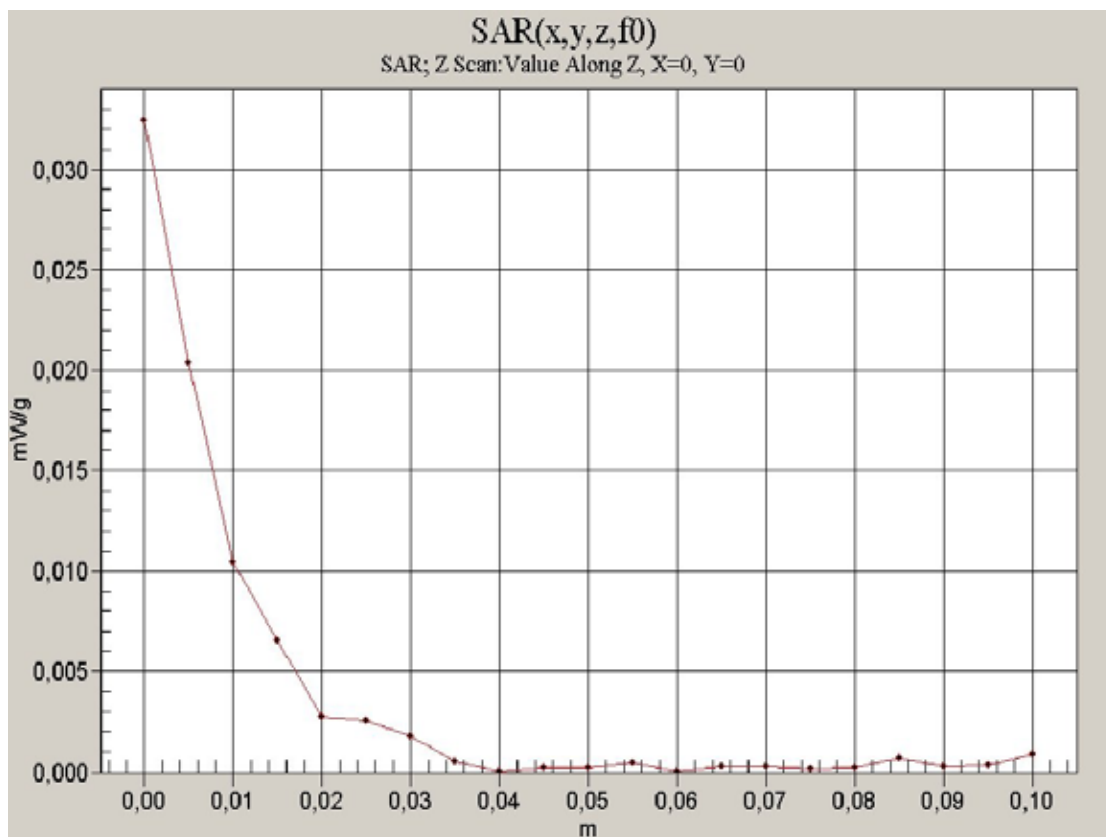
WCDMA FDD II 1900MHz head



WCDMA FDD II 1900MHz body



2450 head



2450 body

Annex C: Photo documentation

Photo 1: Measurement System DASY 4



Photo 2: DUT - front view



Photo 3: DUT - side view



Photo 4: DUT - rear view



Photo 5: DUT - rear view (open) without battery



Photo 6: DUT - rear view (label)



Photo 7: Battery



Photo 8: Test position left hand touched

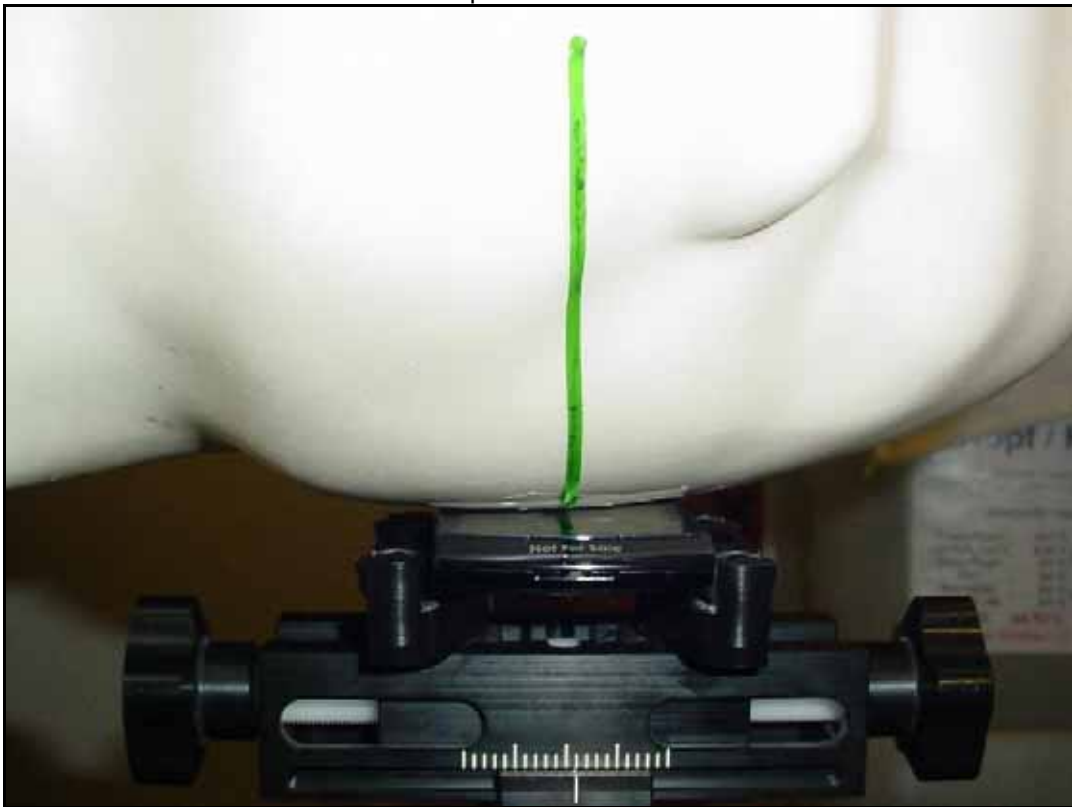


Photo 9: Test position left hand touched



Photo 10: Test position left hand touched



Photo 11: Test position left hand tilted 15°



Photo 12: Test position right hand touched



Photo 13: Test position right hand touched



Photo 14: Test position right hand touched



Photo 15: Test position right hand touched



Photo 16: Test position right hand tilted 15°

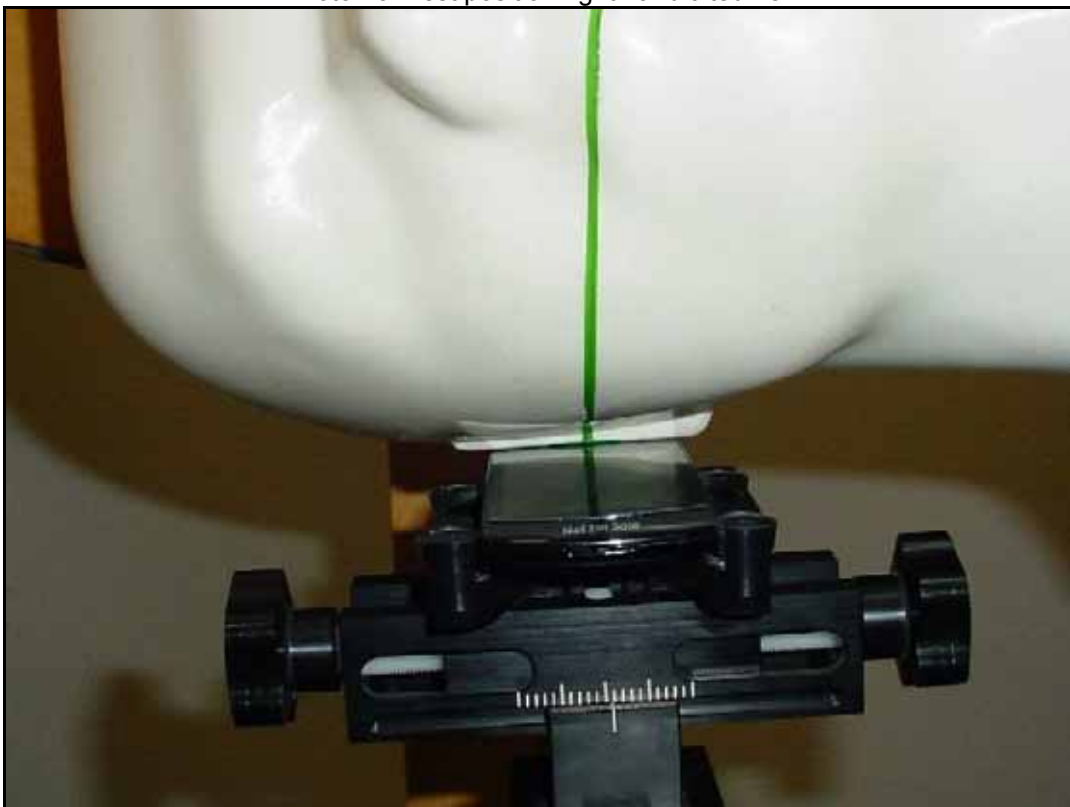


Photo 17: Test position right hand tilted 15°



Photo 18: Test position body worn front side with 15 mm distance



Photo 19: Test position body worn rear side with 15 mm distance



Annex C.1: Liquid depth

Photo 1: Liquid depth 850 MHz head simulating liquid



Photo 2: Liquid depth 850 MHz body simulating liquid



Photo 3: Liquid depth 1900MHz head simulating liquid



Photo 4: Liquid depth 1900 MHz body simulating liquid



Photo 5: Liquid depth 2450MHz head simulating liquid



Photo 6: Liquid depth 2450 MHz body simulating liquid



Annex D: RF Technical Brief Cover Sheet acc. to RSS-102

1. COMPANY NUMBER: 4170B
2. MODEL NUMBER: A3880070
3. MANUFACTURER: **Sony Ericsson Mobile Communications AB**
4. TYPE OF EVALUATION:

(a) SAR Evaluation: Device used in the Vicinity of the Human Head

- Multiple transmitters: Yes No
- Evaluated against exposure limits: General Public Use Controlled Use
- Duty cycle used in evaluation: 12.5 and 100 %
- Standard used for evaluation: RSS-102 Issue 2 (2010-03)
- SAR value: **1.320 W/kg.** Measured Computed Calculated

(b) SAR Evaluation: Body-worn Device

- Multiple transmitters: Yes No
- Evaluated against exposure limits: General Public Use Controlled Use
- Duty cycle used in evaluation: 25 and 100 %
- Standard used for evaluation: RSS-102 Issue 2 (2010-03)
- SAR value: **1.070 W/kg.** Measured Computed Calculated

Annex D.1: Declaration of RF Exposure Compliance

ATTESTATION: I attest that the information provided in Annex D: is correct; that a Technical Brief was prepared and the information it contains is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed and that the device meets the SAR and/or RF exposure limits of RSS-102.

Signature:

Date: **2010-06-17**

NAME : **Thomas Vogler**

TITLE : Dipl.-Ing. (FH)

COMPANY : CETECOM ICT Services GmbH

Annex E: Calibration parameters

Calibration parameters are described in the additional document :

Appendix to test report no. 1-1954-07-03/10-A Calibration data, Phantom certificate and detail information of the DASY4 System

Annex F: Document History

Version	Applied Changes	Date of Release
	Initial Release	2010-03-22
A	- HSUPA comments removed from headlines and additional notes - Company number and model number added in annex D	2010-06-17

Annex G: Further Information

Glossary

DUT	-	Device under Test
EUT	-	Equipment under Test
FCC	-	Federal Communication Commission
FCC ID	-	Company Identifier at FCC
HW	-	Hardware
IC	-	Industry Canada
Inv. No.	-	Inventory number
N/A	-	not applicable
SAR	-	Specific Absorption Rate
S/N	-	Serial Number
SW	-	Software