TEST REPORT

Test Report No.: 1-4254/12-18-02-A

Testing Laboratory

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Accredited Test Laboratory:
The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)
The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number: D-PL-12076-01-01

Applicant

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Manufacturer

Sony Mobile Communications AB
Nya Vattentornet
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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:	**PM-0030-BV**
S/N serial number:	CB511ZXHQ0 / CB511ZY9K9 (WLAN)
FCC-ID:	PY7PM-0030
IC:	4170B-PM0030
IMEI-Number:	00440214-5722256
Hardware status:	AP1.2
Software status:	7.0.A.1.68 / atp_mint_0_0_52
Frequency:	see technical details
Antenna:	integrated antenna
Battery option:	Integrated battery
Accessories:	Stereo headset
Test sample status:	identical prototype
Exposure category:	general population / uncontrolled environment

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Test Report authorised:

2012-08-03   Thomas Vogler
             Senior Testing Manager

Test performed:

2012-08-03   Oleksandr Hnatovskiy
             Testing Manager

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2   General information

2.1   Notes and disclaimer

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2.2   Application details

Date of receipt of order: 2012-07-03
Date of receipt of test item: 2012-07-03
Start of test: 2012-07-04
End of test: 2012-07-30
Person(s) present during the test:

2.3   Statement of compliance

The SAR values found for the PM-0030-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 95.1:1992, 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.

According to KDB pub 941225 D06 this device has been tested with 10 mm distance to the phantom for operation in WLAN hot spot mode.

2.4   Technical details

Band tested for this 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 multislot class	(E)GPRS voice mode or DTM	Test channel low	Test channel middle	Test channel high	Maximum output power/dBm)*
☐	GSM	GSM	880.2	914.8	925.2	959.8	GMSK 8-PSK	4 E2	5	B	12	no	975	37	124	33.8
☐	GSM	DCS	1710.2	1784.8	1805.2	1879.8	GMSK 8-PSK	1 E2	0	B	12	no	512	698	885	30.7
☒	GSM	cellular	824.2	848.8	869.2	893.8	GMSK 8-PSK	4 E2	5	B	12	no	128	190	251	33.1
☒	GSM	PCS	1850.2	1909.8	1930.2	1989.8	GMSK 8-PSK	1 E2	0	B	12	no	512	661	810	30.8
☐	UMTS	FDD I	1922.4	1977.6	2112.4	2167.6	QPSK	3	max	--	--	--	9612	9750	9888	24.0
☒	UMTS	FDD II	1852.4	1907.6	1982.4	1987.6	QPSK	3	max	--	--	--	9262	9400	9538	24.8
☒	UMTS	FDD IV	1712.4	1752.6	1807.4	1877.6	QPSK	3	max	--	--	--	1312	1412	1513	24.8
☒	UMTS	FDD V	826.4	846.6	871.4	891.6	QPSK	3	max	--	--	--	4132	4182	4233	25.0
☐	UMTS	FDD VIII	882.4	912.6	927.4	957.6	QPSK	3	max	--	--	--	2712	2787	2863	25.0
☐	WLAN	ISM	2412	2472	2412	2472	CCK OFDM	--	max	--	--	--	1	7	13	18.0
☒	WLAN US	ISM	2412	2462	2412	2462	CCK OFDM	--	max	--	--	--	1	6	11	18.0
☒	WLAN	ISM	5180	5240	5180	5240	OFDM	--	max	--	--	--	--	40	--	13.96
☒	WLAN	ISM	5260	5320	5260	5320	OFDM	--	max	--	--	--	--	56	--	14.01
☒	WLAN	ISM	5500	5700	5500	5700	OFDM	--	max	--	--	--	--	--	140	14.03
☒	WLAN	ISM	5745	5825	5745	5825	OFDM	--	max	--	--	--	149	--	--	13.91
☐	BT	ISM	2402	2480	2402	2480	GFSK	3	max	--	--	--	0	39	78	8.7

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

3 Test standards/ procedures references

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	2002	IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave
IEEE Std. C95-1	1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
IEC 62209-2	2010	Human exposure to radio frequency fields from hand-held and bodymounted wireless communication devices. Human models, instrumentation, and procedures. Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)

FCC KDBs:

FCC OET SAR Measurement Procedures for 802.11 a/b/g Transmitters, May, 2007.

FCC OET SAR Evaluation Considerations for Handsets with Multiple Transmitters & Antennas, September, 2008.

FCC OET SAR Test Reduction Procedure for GSM/GPRS/EDGE, December, 2008.

FCC OET SAR Probe Calibration and System Verification Considerations for Measurements at 150 MHz – 3 GHz, January, 2007.

FCC OET RF Exposure Procedures for Mobile and Portable Devices, and Equipment Authorization Policies, November, 2009.

FCC OET SAR Measurements Procedures for 3G Devices, October, 2007.

FCC OET Dipole Requirements for SAR System Validation and Verification, November, 2009.

FCC OET 865664 SAR measurement 100 MHz to 6 GHz DR01
RF Exposure Compliance Reporting and Documentation Considerations, April 20, 2012

3.1 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain and Trunk)	**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

☒	**No deviations from the technical specifications ascertained**
☐	Deviations from the technical specifications ascertained

Extrapolated SAR values of the highest measured SAR				
	conducted output power (dBm)		SAR_{1g} maximum results(W/kg)	
Frequency band	Max. (from tune-up info)	Measured	Measured	Extrapolated
GSM 850 head	33.5	33.1	0.353	0.387
GSM 850 body hotspot	27.5	27.3	0.688	0.720
GSM 850 body worn	33.5	33.1	0.279	0.306
GSM 1900 head	31.0	30.8	0.421	0.441
GSM 1900 body hotspot	25.0	24.9	0.758	0.776
GSM 1900 body worn	25.0	24.9	0.320	0.327
WCDMA FDD V head	25.0	25.0	0.365	0.365
WCDMA FDD V body hotspot	25.0	25.0	0.828	0.828
WCDMA FDD V body worn	25.0	25.0	0.399	0.399
WCDMA FDD IV head	24.8	24.8	0.585	0.585
WCDMA FDD IV body hotspot	22.8	22.8	1.120	1.120
WCDMA FDD IV body worn	24.8	24.8	0.537	0.537
WCDMA FDD II head	24.8	24.8	1.070	1.070
WCDMA FDD II body hotspot	22.8	22.8	1.080	1.080
WCDMA FDD II body worn	24.8	24.8	0.884	0.884

Table 2: Extrapolated SAR values of the highest measured SAR

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 7.1 and/or on the measurement plots.

6 Test Set-up

6.1 Measurement system

6.1.1 System Description
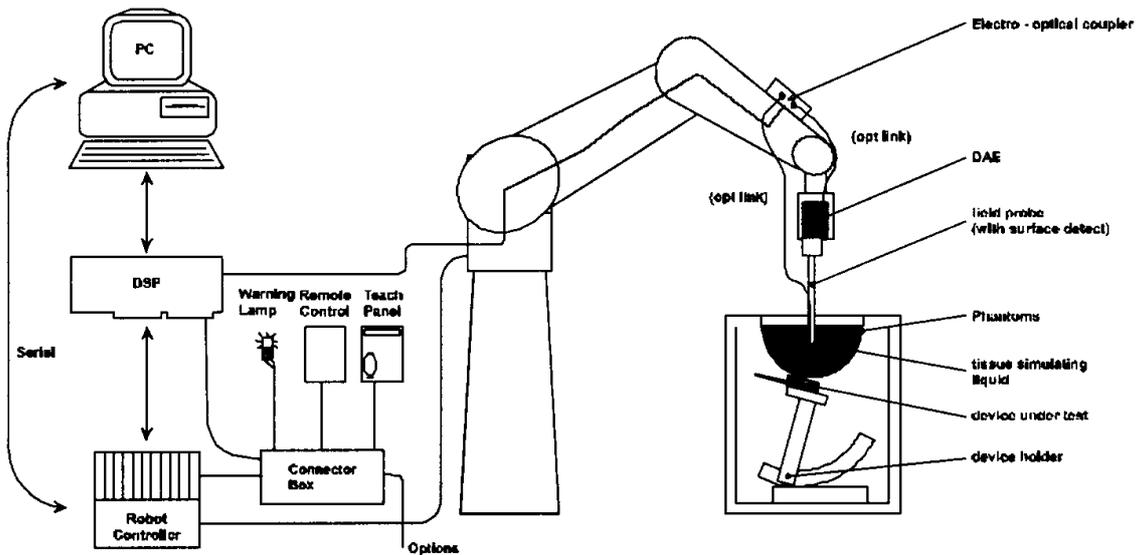
- The DASY4 system for performing compliance tests consists of the following items:

- 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 DASY4 measurement server.
- The DASY4 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 XP.
- DASY4 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., glycolether)
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 ± 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 µW/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.

ear reference point right hand side

ear reference point left hand side

reference point flat position
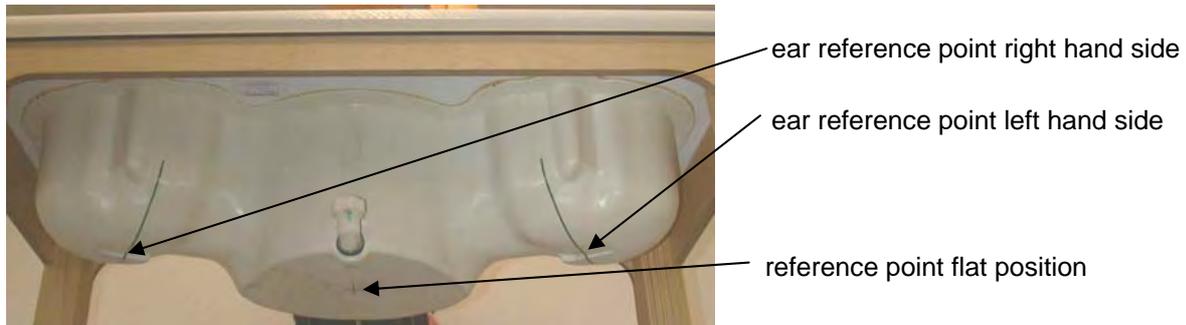
6.1.5 Device holder description

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 ± 0.1mm). 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 ± 30°.)

- 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 strenth 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 compansate 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	$Norm_i$, a_{i0}, a_{i1}, a_{i2}
	- Conversion factor	$ConvF_i$
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or 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/cm^3

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

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

with
P_{pwe} = equivalent power density of a plane wave in mW/cm^2
E_{tot} = total electric field strength in V/m
H_{tot} = total magnetic field strength in A/m

6.1.9 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)					
frequency band	☒ 835	☒ 900	☒ 1800	☒ 1900	☒ 2450	☒ 5000
Tissue Type	Head	Head	Head	Head	Head	Head
Water	41.45	40.92	52.64	54.9	62.7	64 - 78
Salt (NaCl)	1.45	1.48	0.36	0.18	0.5	2 - 3
Sugar	56.0	56.5	0.0	0.0	0.0	0.0
HEC	1.0	1.0	0.0	0.0	0.0	0.0
Bactericide	0.1	0.1	0.0	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	36.8	0.0
DGBE	0.0	0.0	47.0	44.92	0.0	0.0
Emulsifiers	0.0	0.0	0.0	0.0	0.0	9 - 15
Mineral Oil	0.0	0.0	0.0	0.0	0.0	11 - 18

Table 3: Head tissue dielectric properties

Ingredients (% of weight)	Frequency (MHz)					
frequency band	☒ 835	☒ 900	☒ 1800	☒ 1900	☒ 2450	☒ 5000
Tissue Type	Body	Body	Body	Body	Body	Body
Water	52.4	56.0	69.91	69.91	73.2	64 - 78
Salt (NaCl)	1.40	0.76	0.13	0.13	0.04	2 - 3
Sugar	45.0	41.76	0.0	0.0	0.0	0.0
HEC	1.0	1.21	0.0	0.0	0.0	0.0
Bactericide	0.1	0.27	0.0	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	29.96	29.96	26.7	0.0
Emulsifiers	0.0	0.0	0.0	0.0	0.0	9 - 15
Mineral Oil	0.0	0.0	0.0	0.0	0.0	11 - 18

Table 4: 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

Liquid	Frequency (MHz)	Target head tissue		Measurement head tissue		Measurement date
		Permittivity	Conductivity[S/m]	Permittivity	Conductivity[S/m]	
HSL 850/900	824	41.5	0.90	41.4	0.89	2012-07-12
	837	41.5	0.90	41.3	0.90	2012-07-12
	849	41.5	0.90	41.1	0.91	2012-07-12
	900	41.5	0.97	40.5	0.96	2012-07-12
HSL 1800	1710	40.0	1.40	40.2	1.35	2012-07-04
	1732	40.0	1.40	40.1	1.37	2012-07-04
	1753	40.0	1.40	40.0	1.39	2012-07-04
	1800	40.0	1.40	39.8	1.43	2012-07-04
HSL 1900	1850	40.0	1.40	39.6	1.34	2012-07-05
	1880	40.0	1.40	39.4	1.37	2012-07-05
	1900	40.0	1.40	39.4	1.38	2012-07-05
	1910	40.0	1.40	39.3	1.40	2012-07-05
HSL 2450	2412	39.2	1.80	39.5	1.81	2012-07-23
	2437	39.2	1.80	39.4	1.84	2012-07-23
	2450	39.2	1.80	39.4	1.85	2012-07-23
	2462	39.2	1.80	39.4	1.86	2012-07-23
HSL 5GHz	5200	36.0	4.66	36.6	4.52	2012-07-30
	5280	35.9	4.76	36.44	4.60	2012-07-30
	5500	35.6	4.96	36.1	4.82	2012-07-30
	5700	35.4	5.17	35.8	5.02	2012-07-30
	5745	35.4	5.22	35.71	5.07	2012-07-30
	5800	35.3	5.27	35.6	5.12	2012-07-30

Table 5: Parameter of the head tissue simulating liquid

Liquid	Frequency (MHz)	Target body tissue		Measurement body tissue		Measurement date
		Permittivity	Conductivity[S/m]	Permittivity	Conductivity[S/m]	
M 850/900	824	55.2	0.97	55.0	0.97	2012-07-18
	837	55.2	0.97	54.8	0.98	2012-07-18
	849	55.2	0.97	54.7	1.00	2012-07-18
	900	55.0	1.05	54.3	1.05	2012-07-18
M 1800	1710	53.3	1.52	53.2	1.47	2012-07-23
	1732	53.3	1.52	53.1	1.49	2012-07-23
	1753	53.3	1.52	53.0	1.52	2012-07-23
	1800	53.3	1.52	52.9	1.57	2012-07-23
M 1900	1850	53.3	1.52	52.8	1.45	2012-07-24
	1880	53.3	1.52	52.8	1.48	2012-07-24
	1900	53.3	1.52	52.7	1.50	2012-07-24
	1910	53.3	1.52	52.7	1.52	2012-07-24
M 2450	2412	52.7	1.95	52.3	1.92	2012-07-24
	2437	52.7	1.95	52.2	1.96	2012-07-24
	2450	52.7	1.95	52.2	1.97	2012-07-24
	2462	52.7	1.95	52.2	1.98	2012-07-24
M 5GHz	5200	49.0	5.30	48.02	5.34	2012-07-26
	5280	48.9	5.40	47.90	5.41	2012-07-26
	5500	48.6	5.65	47.27	5.71	2012-07-26
	5700	48.2	6.00	46.89	5.97	2012-07-26
	5745	48.2	6.00	46.75	6.01	2012-07-26
	5800	48.2	6.00	46.69	6.10	2012-07-26

Table 6: 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 ± 11.5% (K=1).
The expanded uncertainty (k=2) is assessed to be ± 23.0%
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	Divi-sor	c_i 1g	c_i 10g	Standard Uncertainty 1g	Standard Uncertainty 10g	v_i^2 or v_{eff}
Measurement System								
Probe calibration	± 6.0%	Normal	1	1	1	± 6.0%	± 6.0%	∞
Axial isotropy	± 4.7%	Rectangular	√3	0.7	0.7	± 1.9%	± 1.9%	∞
Hemispherical isotropy	± 9.6%	Rectangular	√3	0.7	0.7	± 3.9%	± 3.9%	∞
Spatial resolution	± 0.0%	Rectangular	√3	1	1	± 0.0%	± 0.0%	∞
Boundary effects	± 1.0%	Rectangular	√3	1	1	± 0.6%	± 0.6%	∞
Probe linearity	± 4.7%	Rectangular	√3	1	1	± 2.7%	± 2.7%	∞
System detection limits	± 1.0%	Rectangular	√3	1	1	± 0.6%	± 0.6%	∞
Readout electronics	± 1.0%	Normal	1	1	1	± 1.0%	± 1.0%	∞
Response time	± 0.8%	Rectangular	√3	1	1	± 0.5%	± 0.5%	∞
Integration time	± 2.6%	Rectangular	√3	1	1	± 1.5%	± 1.5%	∞
RF ambient conditions	± 3.0%	Rectangular	√3	1	1	± 1.7%	± 1.7%	∞
Probe positioner	± 0.4%	Rectangular	√3	1	1	± 0.2%	± 0.2%	∞
Probe positioning	± 2.9%	Rectangular	√3	1	1	± 1.7%	± 1.7%	∞
Max. SAR evaluation	± 1.0%	Rectangular	√3	1	1	± 0.6%	± 0.6%	∞
Test Sample Related								
Device positioning	± 2.9%	Normal	1	1	1	± 2.9%	± 2.9%	145
Device holder uncertainty	± 3.6%	Normal	1	1	1	± 3.6%	± 3.6%	5
Power drift	± 5.0%	Rectangular	√3	1	1	± 2.9%	± 2.9%	∞
Phantom and Set-up								
Phantom uncertainty	± 4.0%	Rectangular	√3	1	1	± 2.3%	± 2.3%	∞
Liquid conductivity (target)	± 5.0%	Rectangular	√3	0.64	0.43	± 1.8%	± 1.2%	∞
Liquid conductivity (meas.)	± 2.5%	Normal	1	0.64	0.43	± 1.6%	± 1.1%	∞
Liquid permittivity (target)	± 5.0%	Rectangular	√3	0.6	0.49	± 1.7%	± 1.4%	∞
Liquid permittivity (meas.)	± 2.5%	Normal	1	0.6	0.49	± 1.5%	± 1.2%	∞
Combined Uncertainty						± 11.5%	± 11.2%	330
Expanded Std. Uncertainty						**± 23.0%**	**± 22.5%**	

Table 7: Measurement uncertainties

Note : Worst case probe calibration uncertainty has been applied for all probes used during the
measurements.

6.1.12 Measurement uncertainty evaluation for SAR test > 3 GHz

The overall combined measurement uncertainty of the measurement system is ± 11.8% (K=1).
The expanded uncertainty (k=2) is assessed to be ± 23.6%
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	Divi-sor	c_i 1g	c_i 10g	Standard Uncertainty 1g	Standard Uncertainty 10g	v_i^2 or v_{eff}
Measurement System								
Probe calibration	± 6.6%	Normal	1	1	1	± 6.6%	± 6.6%	∞
Axial isotropy	± 4.7%	Rectangular	√3	0.7	0.7	± 1.9%	± 1.9%	∞
Hemispherical isotropy	± 9.6%	Rectangular	√3	0.7	0.7	± 3.9%	± 3.9%	∞
Spatial resolution	± 0.0%	Rectangular	√3	1	1	± 0.0%	± 0.0%	∞
Boundary effects	± 2.0%	Rectangular	√3	1	1	± 1.2%	± 1.2%	∞
Probe linearity	± 4.7%	Rectangular	√3	1	1	± 2.7%	± 2.7%	∞
System detection limits	± 1.0%	Rectangular	√3	1	1	± 0.6%	± 0.6%	∞
Readout electronics	± 1.0%	Normal	1	1	1	± 1.0%	± 1.0%	∞
Response time	± 0.8%	Rectangular	√3	1	1	± 0.5%	± 0.5%	∞
Integration time	± 2.6%	Rectangular	√3	1	1	± 1.5%	± 1.5%	∞
RF ambient conditions	± 3.0%	Rectangular	√3	1	1	± 1.7%	± 1.7%	∞
Probe positioner	± 0.8%	Rectangular	√3	1	1	± 0.4%	± 0.4%	∞
Probe positioning	± 5.8%	Rectangular	√3	1	1	± 3.4%	± 3.4%	∞
Max. SAR evaluation	± 1.0%	Rectangular	√3	1	1	± 0.6%	± 0.6%	∞
Test Sample Related								
Device positioning	± 2.9%	Normal	1	1	1	± 2.9%	± 2.9%	145
Device holder uncertainty	± 3.6%	Normal	1	1	1	± 3.6%	± 3.6%	5
Power drift	± 5.0%	Rectangular	√3	1	1	± 2.9%	± 2.9%	∞
Phantom and Set-up								
Phantom uncertainty	± 4.0%	Rectangular	√3	1	1	± 2.3%	± 2.3%	∞
Liquid conductivity (target)	± 5.0%	Rectangular	√3	0.64	0.43	± 1.8%	± 1.2%	∞
Liquid conductivity (meas.)	± 2.5%	Normal	1	0.64	0.43	± 1.6%	± 1.1%	∞
Liquid permittivity (target)	± 5.0%	Rectangular	√3	0.6	0.49	± 1.7%	± 1.4%	∞
Liquid permittivity (meas.)	± 2.5%	Normal	1	0.6	0.49	± 1.5%	± 1.2%	∞
Combined Uncertainty						± 11.8%	± 11.5%	330
Expanded Std. Uncertainty						**± 23.6%**	**± 23.0%**	

Table 8: Measurement uncertainties

6.1.13 Measurement uncertainty evaluation for system check

The overall combined measurement uncertainty of the measurement system is ± 9.6% (K=1).
The expanded uncertainty (k=2) is assessed to be ± 19.2%
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	Divi-sor	c_i 1g	c_i 10g	Standard Uncertainty 1g	Standard Uncertainty 10g	v_i^2 or v_{eff}
Measurement System								
Probe calibration	± 6.0%	Normal	1	1	1	± 6.0%	± 6.0%	∞
Axial isotropy	± 4.7%	Rectangular	√3	0.7	0.7	± 1.9%	± 1.9%	∞
Hemispherical isotropy	± 0.0%	Rectangular	√3	0.7	0.7	± 0.0%	± 3.9%	∞
Boundary effects	± 1.0%	Rectangular	√3	1	1	± 0.6%	± 0.6%	∞
Probe linearity	± 4.7%	Rectangular	√3	1	1	± 2.7%	± 2.7%	∞
System detection limits	± 1.0%	Rectangular	√3	1	1	± 0.6%	± 0.6%	∞
Readout electronics	± 1.0%	Normal	1	1	1	± 1.0%	± 1.0%	∞
Response time	± 0.0%	Rectangular	√3	1	1	± 0.0%	± 0.0%	∞
Integration time	± 0.0%	Rectangular	√3	1	1	± 0.0%	± 0.0%	∞
RF ambient conditions	± 3.0%	Rectangular	√3	1	1	± 1.7%	± 1.7%	∞
Probe positioner	± 0.4%	Rectangular	√3	1	1	± 0.2%	± 0.2%	∞
Probe positioning	± 2.9%	Rectangular	√3	1	1	± 1.7%	± 1.7%	∞
Max. SAR evaluation	± 1.0%	Rectangular	√3	1	1	± 0.6%	± 0.6%	∞
Test Sample Related								
Dipole axis to liquid distance	± 2.0%	Normal	1	1	1	± 1.2%	± 1.2%	∞
Power drift	± 4.7%	Rectangular	√3	1	1	± 2.7%	± 2.7%	∞
Phantom and Set-up								
Phantom uncertainty	± 4.0%	Rectangular	√3	1	1	± 2.3%	± 2.3%	∞
Liquid conductivity (target)	± 5.0%	Rectangular	√3	0.64	0.43	± 1.8%	± 1.2%	∞
Liquid conductivity (meas.)	± 2.5%	Normal	1	0.64	0.43	± 1.6%	± 1.1%	∞
Liquid permittivity (target)	± 5.0%	Rectangular	√3	0.6	0.49	± 1.7%	± 1.4%	∞
Liquid permittivity (meas.)	± 2.5%	Normal	1	0.6	0.49	± 1.5%	± 1.2%	∞
Combined Uncertainty						**± 9.6%**	**± 9.3%**	
Expanded Std. Uncertainty						**± 19.2%**	**± 18.6%**	

Table 9: Measurement uncertainties

Note : Worst case probe calibration uncertainty has been applied for all probes used during the measurements.

6.1.14 Measurement uncertainty evaluation for system check > 3 GHz

The overall combined measurement uncertainty of the measurement system is ± 10.2% (K=1).
The expanded uncertainty (k=2) is assessed to be ± 20.3%
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	Divi-sor	c_i 1g	c_i 10g	Standard Uncertainty 1g	Standard Uncertainty 10g	v_i^2 or v_{eff}
Measurement System								
Probe calibration	± 6.6%	Normal	1	1	1	± 6.6%	± 6.6%	∞
Axial isotropy	± 4.7%	Rectangular	√3	0.7	0.7	± 1.9%	± 1.9%	∞
Hemispherical isotropy	± 0.0%	Rectangular	√3	0.7	0.7	± 0.0%	± 3.9%	∞
Boundary effects	± 2.0%	Rectangular	√3	1	1	± 1.2%	± 1.2%	∞
Probe linearity	± 4.7%	Rectangular	√3	1	1	± 2.7%	± 2.7%	∞
System detection limits	± 1.0%	Rectangular	√3	1	1	± 0.6%	± 0.6%	∞
Readout electronics	± 1.0%	Normal	1	1	1	± 1.0%	± 1.0%	∞
Response time	± 0.0%	Rectangular	√3	1	1	± 0.0%	± 0.0%	∞
Integration time	± 0.0%	Rectangular	√3	1	1	± 0.0%	± 0.0%	∞
RF ambient conditions	± 3.0%	Rectangular	√3	1	1	± 1.7%	± 1.7%	∞
Probe positioner	± 0.8%	Rectangular	√3	1	1	± 0.4%	± 0.4%	∞
Probe positioning	± 5.8%	Rectangular	√3	1	1	± 3.4%	± 3.4%	∞
Max. SAR evaluation	± 1.0%	Rectangular	√3	1	1	± 0.6%	± 0.6%	∞
Test Sample Related								
Dipole axis to liquid distance	± 2.0%	Normal	1	1	1	± 1.2%	± 1.2%	∞
Power drift	± 4.7%	Rectangular	√3	1	1	± 2.7%	± 2.7%	∞
Phantom and Set-up								
Phantom uncertainty	± 4.0%	Rectangular	√3	1	1	± 2.3%	± 2.3%	∞
Liquid conductivity (target)	± 5.0%	Rectangular	√3	0.64	0.43	± 1.8%	± 1.2%	∞
Liquid conductivity (meas.)	± 2.5%	Normal	1	0.64	0.43	± 1.6%	± 1.1%	∞
Liquid permittivity (target)	± 5.0%	Rectangular	√3	0.6	0.49	± 1.7%	± 1.4%	∞
Liquid permittivity (meas.)	± 2.5%	Normal	1	0.6	0.49	± 1.5%	± 1.2%	∞
Combined Uncertainty						**± 10.2%**	**± 9.9%**	
Expanded Std. Uncertainty						**± 20.3%**	**± 19.8%**	

Table 10: Measurement uncertainties

6.1.15 System check

The system check is performed for verifying the accuracy of the complete measurement system and performance of the software. The system check is performed with tissue equivalent material according to IEEE 1528. The following table shows system check 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	16.0 mW/g	10.9 mW/g	16.7 mW/g	11.4 mW/g	2012-07-16
D900V2 S/N: 102	900 MHz head	16.0 mW/g	10.9 mW/g	17.5 mW/g	11.7 mW/g	2012-07-17
D900V2 S/N: 102	900 MHz body	17.3 mW/g	11.2 mW/g	15.7 mW/g	10.8 mW/g	2012-07-18
D900V2 S/N: 102	900 MHz body	17.3 mW/g	11.2 mW/g	16.1 mW/g	11.3 mW/g	2012-07-19
D1800V2 S/N: 287	1800 MHz head	66.2 mW/g	37.5 mW/g	60.3 mW/g	36.2 mW/g	2012-07-04
D1800V2 S/N: 287	1800 MHz head	66.2 mW/g	37.5 mW/g	62.0 mW/g	37.2 mW/g	2012-07-05
D1800V2 S/N: 287	1800 MHz body	67.8 mW/g	38.7 mW/g	69.9 mW/g	40.4 mW/g	2012-07-23
D1900V2 S/N: 5d009	1900 MHz head	73.6 mW/g	40.0 mW/g	71.0 mW/g	39.5 mW/g	2012-07-09
D1900V2 S/N: 5d009	1900 MHz head	73.6 mW/g	40.0 mW/g	72.4 mW/g	40.2 mW/g	2012-07-10
D1900V2 S/N: 5d009	1900 MHz body	73.8 mW/g	40.9 mW/g	70.3 mW/g	40.7 mW/g	2012-07-25
D1900V2 S/N: 5d009	1900 MHz body	73.8 mW/g	40.9 mW/g	67.3 mW/g	37.7 mW/g	2012-07-26
D2450V2 S/N: 710	2450 MHz head	102.4 mW/g	54.2 mW/g	104.6 mW/g	56.6 mW/g	2012-07-23
D2450V2 S/N: 710	2450 MHz body	108.0 mW/g	51.7 mW/g	110.5 mW/g	54.7 mW/g	2012-07-24
D2450V2 S/N: 710	2450 MHz body	108.0 mW/g	51.7 mW/g	115.0 mW/g	52.5 mW/g	2012-07-25
D5GHzV2 S/N: 1055	5200 MHz head	287 mW/g	77.3 mW/g	300.8 mW/g	81.9 mW/g	2012-07-30
D5GHzV2 S/N: 1055	5500 MHz head	325 mW/g	81.1 mW/g	334.1 mW/g	82.1 mW/g	2012-07-30
D5GHzV2 S/N: 1055	5800 MHz head	319 mW/g	75.4 mW/g	306.6 mW/g	73.4 mW/g	2012-07-30
D5GHzV2 S/N: 1055	5200 MHz body	286 mW/g	73.4 mW/g	270.7 mW/g	76.7 mW/g	2012-07-26
D5GHzV2 S/N: 1055	5500 MHz body	336 mW/g	78.4 mW/g	310.1 mW/g	84.3 mW/g	2012-07-26
D5GHzV2 S/N: 1055	5800 MHz body	345 mW/g	74.0 mW/g	330.9 mW/g	73.0 mW/g	2012-07-26

Table 11: Results system validation

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

6.1.16 System check procedure

The system check 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 system check 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).

System check 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.
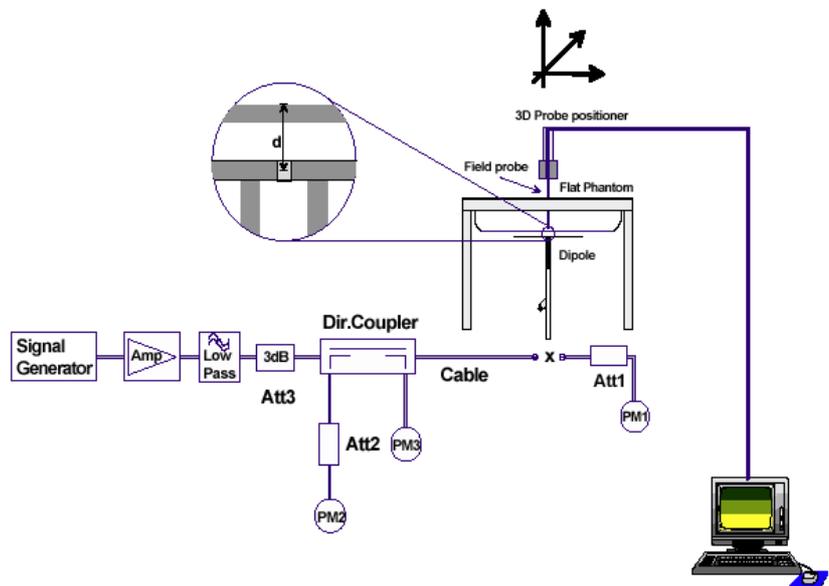
7   Detailed Test Results

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 time based average power is relevant. The difference in-between 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
time based 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		time based avg. Power (calculated)	
128 / 824.2 MHz	GMSK	1	33.1	dBm	24.1	dBm
190 / 836.6 MHz	GMSK	1	33.1	dBm	24.1	dBm
251 / 848.0 MHz	GMSK	1	33.1	dBm	24.1	dBm
128 / 824.2 MHz	GMSK	2	30.0	dBm	24.0	dBm
190 / 836.6 MHz	GMSK	2	29.9	dBm	23.9	dBm
251 / 848.0 MHz	GMSK	2	29.9	dBm	23.9	dBm
128 / 824.2 MHz	GMSK	3	28.3	dBm	24.05	dBm
190 / 836.6 MHz	GMSK	3	28.3	dBm	24.05	dBm
251 / 848.0 MHz	GMSK	3	28.2	dBm	23.95	dBm
128 / 824.2 MHz	GMSK	**4**	27.1	dBm	**24.1**	**dBm**
190 / 836.6 MHz	GMSK	**4**	27.1	dBm	**24.1**	**dBm**
251 / 848.0 MHz	GMSK	**4**	27.3	dBm	**24.3**	**dBm**
128 / 824.2 MHz	8PSK	1	26.9	dBm	17.9	dBm
190 / 836.6 MHz	8PSK	1	26.9	dBm	17.9	dBm
251 / 848.0 MHz	8PSK	1	26.9	dBm	17.9	dBm
128 / 824.2 MHz	8PSK	2	25.2	dBm	19.2	dBm
190 / 836.6 MHz	8PSK	2	25.2	dBm	19.2	dBm
251 / 848.0 MHz	8PSK	2	25.2	dBm	19.2	dBm
128 / 824.2 MHz	8PSK	3	24.1	dBm	19.85	dBm
190 / 836.6 MHz	8PSK	3	24.0	dBm	19.75	dBm
251 / 848.0 MHz	8PSK	3	24.1	dBm	19.85	dBm
128 / 824.2 MHz	8PSK	4	22.3	dBm	19.3	dBm
190 / 836.6 MHz	8PSK	4	22.3	dBm	19.3	dBm
251 / 848.0 MHz	8PSK	4	22.4	dBm	19.4	dBm

Table 12: Test results conducted power measurement GSM 850 MHz

Conducted power measurements GSM 1900 MHz

Channel / frequency	modulation	timeslots	slotted avg. power	time based avg. Power (calculated)
512 / 1850.2 MHz	GMSK	1	30.6 dBm	21.6 dBm
661 / 1880.0 MHz	GMSK	1	30.7 dBm	21.7 dBm
810 / 1909.8 MHz	GMSK	1	30.8 dBm	21.8 dBm
512 / 1850.2 MHz	GMSK	2	27.8 dBm	21.8 dBm
661 / 1880.0 MHz	GMSK	2	27.6 dBm	21.6 dBm
810 / 1909.8 MHz	GMSK	2	27.9 dBm	21.9 dBm
512 / 1850.2 MHz	GMSK	3	25.8 dBm	21.55 dBm
661 / 1880.0 MHz	GMSK	3	26.0 dBm	21.75 dBm
810 / 1909.8 MHz	GMSK	3	25.9 dBm	21.65 dBm
512 / 1850.2 MHz	GMSK	**4**	24.7 dBm	**21.7 dBm**
661 / 1880.0 MHz	GMSK	**4**	24.9 dBm	**21.9 dBm**
810 / 1909.8 MHz	GMSK	**4**	24.8 dBm	**21.8 dBm**
512 / 1850.2 MHz	8PSK	1	26.0 dBm	17.0 dBm
661 / 1880.0 MHz	8PSK	1	26.1 dBm	17.1 dBm
810 / 1909.8 MHz	8PSK	1	26.1 dBm	17.1 dBm
512 / 1850.2 MHz	8PSK	2	24.2 dBm	18.2 dBm
661 / 1880.0 MHz	8PSK	2	24.2 dBm	18.2 dBm
810 / 1909.8 MHz	8PSK	2	24.2 dBm	18.2 dBm
512 / 1850.2 MHz	8PSK	3	23.0 dBm	18.75 dBm
661 / 1880.0 MHz	8PSK	3	23.1 dBm	18.85 dBm
810 / 1909.8 MHz	8PSK	3	23.1 dBm	18.85 dBm
512 / 1850.2 MHz	8PSK	4	21.9 dBm	18.9 dBm
661 / 1880.0 MHz	8PSK	4	22.1 dBm	19.1 dBm
810 / 1909.8 MHz	8PSK	4	22.0 dBm	19.0 dBm

Table 13: Test results conducted power measurement GSM 1900 MHz

7.1.2 Justification of SAR measurements in GSM mode

SAR measurements were performed in GPRS mode with 4 active timeslots because highest time based averaged output power was calculated for that configuration.
For comparison an additional delta measurement was performed with 1 timeslot in speech mode. In EDGE mode no delta measurement was performed.

7.1.3 Conducted power measurements WCDMA FDD V (850 MHz)

Max. RMS output power 850 MHz (FDD V) / dBm			
	Channel / frequency		
mode	4132 / 826.4 MHz	4182 / 836.6 MHz	4233 / 846.6 MHz
RMC 12.2 kbit/s	**25.0**	**25.0**	**25.0**
RMC 64 kbit/s	24.9	24.9	24.9
RMC 144 kbit/s	24.9	25.0	24.9
RMC 384 kbit/s	24.9	24.9	24.9
AMR 4.75 kbit/s	24.9	24.9	24.9
AMR 5.15 kbit/s	24.9	24.9	24.9
AMR 5.9 kbit/s	24.9	24.9	24.9
AMR 6.7 kbit/s	24.9	24.9	24.9
AMR 7.4 kbit/s	24.9	25.0	24.9
AMR 7.95 kbit/s	25.0	24.9	24.9
AMR 10.2 kbit/s	25.0	24.9	24.7
AMR 12.2 kbit/s	25.0	25.0	24.9
HSDPA Sub test 1	**25.0**	**25.0**	**24.5**
HSDPA Sub test 2	23.8	23.9	23.6
HSDPA Sub test 3	22.3	22.2	22.2
HSDPA Sub test 4	22.2	22.3	22.0
HSUPA Sub test 1	24.2	24.2	24.0
HSUPA Sub test 2	22.6	22.6	22.5
HSUPA Sub test 3	23.3	23.3	23.1
HSUPA Sub test 4	22.0	22.1	22.7
HSUPA Sub test 5	**24.4**	**24.2**	**24.0**

Table 14: Test results conducted power measurement WCDMA FDD V 850MHz

7.1.4 Conducted power measurements WCDMA FDD IV (1700 MHz)

Max. RMS output power FDD IV (1700MHz) / dBm			
	Channel / frequency		
mode	1312 / 1712.4 MHz	1412 / 1732.4 MHz	1513 / 1752.6 MHz
RMC 12.2 kbit/s	**24.6**	**24.5**	**24.8**
RMC 64 kbit/s	24.6	24.4	24.8
RMC 144 kbit/s	24.6	24.4	24.8
RMC 384 kbit/s	24.6	24.4	24.8
AMR 4.75 kbit/s	24.6	24.5	24.8
AMR 5.15 kbit/s	24.6	24.5	24.8
AMR 5.9 kbit/s	24.6	24.5	24.8
AMR 6.7 kbit/s	24.6	24.5	24.8
AMR 7.4 kbit/s	24.6	24.3	24.8
AMR 7.95 kbit/s	24.6	23.8	24.8
AMR 10.2 kbit/s	24.3	23.8	24.6
AMR 12.2 kbit/s	24.4	24.3	24.6
HSDPA Sub test 1	**24.6**	**24.4**	**24.8**
HSDPA Sub test 2	23.4	23.2	23.6
HSDPA Sub test 3	22.1	21.8	22.3
HSDPA Sub test 4	22.1	21.9	22.3
HSUPA Sub test 1	24.3	24.0	24.3
HSUPA Sub test 2	22.8	22.3	23.0
HSUPA Sub test 3	23.1	22.9	23.4
HSUPA Sub test 4	22.6	22.4	22.7
HSUPA Sub test 5	**24.6**	**24.2**	**24.6**

Table 15: Test results conducted power measurement WCDMA FDD IV 1700MHz

Max. RMS output power FDD IV with power back off (1700MHz) / dBm			
	Channel / frequency		
mode	1312 / 1712.4 MHz	1412 / 1732.4 MHz	1513 / 1752.6 MHz
RMC 12.2 kbit/s	**22.6**	**22.5**	**22.8**
HSDPA Sub test 1	**22.6**	**22.3**	**22.8**
HSUPA Sub test 5	**22.6**	**22.6**	**22.4**

Table 16: Test results conducted power measurement WCDMA FDD IV 1700MHz with power back off

7.1.5 Conducted power measurements WCDMA FDD II (1900 MHz)

Max. RMS output power 1900 MHz (FDD II) / dBm			
	Channel / frequency		
mode	9262 / 1852.4 MHz	9400 / 1880.0 MHz	9538 / 1907.6 MHz
RMC 12.2 kbit/s	**24.8**	**24.7**	**24.5**
RMC 64 kbit/s	24.7	24.7	24.4
RMC 144 kbit/s	24.7	24.6	24.3
RMC 384 kbit/s	24.6	24.6	24.4
AMR 4.75 kbit/s	24.8	24.7	24.2
AMR 5.15 kbit/s	24.4	24.5	24.2
AMR 5.9 kbit/s	24.7	24.5	24.1
AMR 6.7 kbit/s	24.4	24.4	24.2
AMR 7.4 kbit/s	24.7	24.6	24.0
AMR 7.95 kbit/s	24.4	24.4	24.1
AMR 10.2 kbit/s	24.6	24.4	24.1
AMR 12.2 kbit/s	24.5	24.4	24.2
HSDPA Sub test 1	**24.8**	**24.7**	**24.5**
HSDPA Sub test 2	23.5	23.3	23.1
HSDPA Sub test 3	22.3	22.2	21.9
HSDPA Sub test 4	22.3	22.3	21.9
HSUPA Sub test 1	24.5	24.3	24.0
HSUPA Sub test 2	22.8	22.7	23.0
HSUPA Sub test 3	23.1	23.5	23.2
HSUPA Sub test 4	22.7	22.6	22.6
HSUPA Sub test 5	**24.5**	**24.7**	**24.2**

Table 17: Test results conducted power measurement WCDMA FDD II 1900MHz

Max. RMS output power 1900 MHz with power back off (FDD II) / dBm			
	Channel / frequency		
mode	9262 / 1852.4 MHz	9400 / 1880.0 MHz	9538 / 1907.6 MHz
RMC 12.2 kbit/s	**22.8**	**22.8**	**22.7**
HSDPA Sub test 1	**22.8**	**22.8**	**22.6**
HSUPA Sub test 5	**22.3**	**22.4**	**22.1**

Table 18: Test results conducted power measurement WCDMA FDD II 1900MHz with power back off

Remark: None of the HSDPA/HSUPA 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/HSUPA mode.

   When Hotspot mode is activated, an automatic RF power reduction is activated and reduces the maximum output RF power level of UMTS Band 2 [1850 - 1910 MHz] and UMTS Band 4 [1710 - 1755 MHz] by 2 dB. When WiFi Hotspot mode is deactivated, the RF output power levels return to their normal RF power level.

7.1.6 Test-set-up information for WCDMA / HSPDA / HSUPA

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	β_{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: Δ_{ACK}, Δ_{NACK}, Δ_{CQI} = 8 $\Longleftrightarrow$ A_{hs} = β_{hs}/β_c = 30/15 $\Longleftrightarrow$ β_{hs} = 30/15 * β_c					
Note 2 : CM = 1 for β_c/β_d = 12/15, β_{hs}/β_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 β_c = 11/15 and β_d = 15/15					

Table 19: 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 Δ_{ACK}, Δ_{NACK}, Δ_{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 20: settings of required H-Set 1 QPSK acc. to 3GPP 34.121

c) HSUPA

In HSUPA mode additional code channels (E-DPCCH, E-DPDCHn) are added for data transfer in uplink at higher bit rates.

5 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	β_{hs}[1]	β_{ec}	β_{ed}	β_{ec} (SF)	β_{ed} (code)	CM[2] (dB)	MPR (dB)	AG[4] Index	E-TFCI
1	11/15[3]	15/15[3]	64	11/15[3]	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1}:47/15 β_{ed2}:47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15[4]	15/15[4]	64	15/15[4]	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK}, Δ_{NACK}, Δ_{CQI} = 8 $\Longleftrightarrow$ A_{hs} = β_{hs}/β_c = 30/15 $\Longleftrightarrow$ β_{hs} = 30/15 * β_c
Note 2 : CM = 1 for β_c/β_d = 12/15, β_{hs}/β_c = 24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference
Note 3 : For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1,TF1) to β_c = 10/15 and β_d = 15/15
Note 4 : For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1,TF1) to β_c = 14/15 and β_d = 15/15
Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g
Note 6 : β_{ed} can not be set directly; it is set by Absolute Grant Value

Table 21: Subtests for UMTS Release 6 HSUPA

To achieve the settings above some additional procedures were defined by 3GPP 34.121. Those have been included in an application note for the CMU200 and were exactly followed :

- Test mode connection (BS signal tab) :
RMC 12.2 kbit/s + HSPA 34.108 with loop mode 1
- HS-DSCH settings (BS signal tab):
- FRC with H-set 1 QPSK
- ACK-NACK repetition factor = 3
- CQI feedback cycle = 4ms
- CQI repetition factor = 2
- HSUPA-specific signalling settings (UE signal tab) :
- E-TFCI table index = 0
- E-DCH minimum set E-TFCI = 9
- Puncturing limit non-max = 0.84
- max. number of channelisation codes = 2x SF4
- Initial Serving Grant Value = Off
- HSDPA and HSUPA Gain factors (UE signal tab)

Sub-test	β_c	β_d	$\Delta_{ACK}, \Delta_{NACK}, \Delta_{CQI}$	$\Delta E-DPCCH$)*
1	10	15	8	6
2	6	15	8	8
3	15	9	8	8
4	2	15	8	5
5	14	15	8	7

)* : β_{ec} and β_{ed} ratios (relative to β_c and β_d) are set by $\Delta E-DPCCH$

- HSUPA Reference E-TFCIs (UE signal tab > HSUPA gain factors) :

Sub-test	1, 2, 4, 5				
Number of E-TFCIs	5				
Reference E-TFCI	11	67	71	75	81
Reference E-TFCI power offset	4	18	23	26	27

Sub-test	3	
Number of E-TFCIs	2	
Reference E-TFCI	11	92
Reference E-TFCI power offset	4	18

- HSUPA-specific generator parameters (BS Signal tab > HSUPA > E-AGCH > AG Pattern)

Sub-test	Absolute Grant Value (AG Index)
1	20
2	12
3	15
4	17
5	21

- Power Level settings (BS Signal tab > Node B-settings):
- Level reference : Output Channel Power (Ior)
- Output Channel Power (Ior) : -86 dBm

- Downlink Physical Channel Settings (BS signal tab)
- P-CPICH : -10 dB
- S-CPICH : Off
- P-SCH : -15 dB
- S-SCH : -15 dB
- P-CCPCH : -12 dB
- S-CCPCH : -12 dB
- PICH : -15 dB
- AICH : -12 dB
- DPDCH : -10 dB
- HS-SCCH : -8 dB
- HS-PDSCH : -3 dB
- E-AGCH : -20 dB
- E-RGCH/E-HICH - 20 dB
- E-RGCH Active : Off

The settings above were stored once for each sub-test and recalled before the measurement.

HSUPA test procedure :

To reach maximum output power in HSUPA mode the following procedures were followed:

3 different TPC patterns were defined :
Set 1 : Closed loop with target power 10 dBm
Set 2 : Single Pattern+Alternating with binary pattern '11111' for 1 dB steps 'up'
Set 3 : Single Pattern+Alternating with binary pattern '00000' for 1 dB steps 'down'

After recalling a certain HSUPA sub-test the HSUPA E-AGCH graph with E-TFCI event counter is displayed.
After starting with the closed loop command the power is increased in 1 dB steps by activating pattern set 2 until the UE decreases the transmitted E-TFCI.
At this point set 3 is activated once to reduce the output power to the value at which the original E-TFCI, which is required for the sub-test, appears again.

For conducted power measurements the same steps are repeated in the power menu to read out the corresponding maximum RMS output power with the target E-TFCI.
For SAR measurements it is useful to switch to Code Domain Power vs. Time display.
Here the CMU200 shows relative power values (max. and min.) of each code channel which should roughly correspond to the numerators of the gain factors e.g. :

Sub-test	β_c	β_d	β_{hs}	β_{ec}	β_{ed}
5	15	15	30	24	134

By this way a surveillance of signalling conditions is possible to make sure that HSUPA code channels are active during the complete SAR measurement.

7.1.7 Conducted power measurements WLAN 2.4 GHz

Channel / frequency	modulation	bit rate	time based avg. power
1 / 2412 MHz	CCK	1 MBit/s	**18.0dBm**
6 / 2437 MHz	CCK	1 MBit/s	**18.2dBm**
11 / 2462 MHz	CCK	1 MBit/s	**18.1dBm**
13 / 2472 MHz	CCK	1 MBit/s	**18.1dBm**
1 / 2412 MHz	OFDM	6 MBit/s	16.1dBm
6 / 2437 MHz	OFDM	6 MBit/s	15.9dBm
11 / 2462 MHz	OFDM	6 MBit/s	15.9dBm
13 / 2472 MHz	OFDM	6 MBit/s	15.9dBm
1 / 2412 MHz	OFDM	6.5 MBit/s	14.9dBm
6 / 2437 MHz	OFDM	6.5 MBit/s	15.0dBm
11 / 2462 MHz	OFDM	6.5 MBit/s	15.1dBm
13 / 2472 MHz	OFDM	6.5 MBit/s	15.1dBm

Table 22: Test results conducted power measurement WLAN 2.4 GHz

7.1.8 Conducted power measurements WLAN 5 GHz

Channel	Frequency (MHz)	modulation	bit rate	time based avg. power
36	5180	OFDM	6 MBit/s	13.95dBm
40	5200	OFDM	6 MBit/s	**13.96dBm**
44	5220	OFDM	6 MBit/s	13.96dBm
48	5240	OFDM	6 MBit/s	13.93dBm
52	5260	OFDM	6 MBit/s	13.98dBm
56	5280	OFDM	6 MBit/s	**14.01dBm**
60	5300	OFDM	6 MBit/s	13.97dBm
64	5320	OFDM	6 MBit/s	13.81dBm
100	5500	OFDM	6 MBit/s	13.95dBm
104	5520	OFDM	6 MBit/s	13.93dBm
108	5540	OFDM	6 MBit/s	13.88dBm
112	5560	OFDM	6 MBit/s	13.85dBm
116	5580	OFDM	6 MBit/s	13.97dBm
120	5600	OFDM	6 MBit/s	13.97dBm
124	5620	OFDM	6 MBit/s	13.94dBm
128	5640	OFDM	6 MBit/s	13.97dBm
132	5660	OFDM	6 MBit/s	13.96dBm
136	5680	OFDM	6 MBit/s	13.97dBm
140	5700	OFDM	6 MBit/s	**14.03dBm**
149	5745	OFDM	6 MBit/s	**13.91dBm**
153	5765	OFDM	6 MBit/s	13.90dBm
157	5785	OFDM	6 MBit/s	13.83dBm
161	5805	OFDM	6 MBit/s	13.90dBm
165	5825	OFDM	6 MBit/s	13.82dBm

Table 23: Test results conducted power measurement WLAN 5 GHz

7.1.9 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.

Minimum antenna separation distance between main antenna and WLAN – **104.33 mm**

a) Head position

Tx No.	Communication system and frequency band	P_{avg} (mW)	remarks
1a	GSM 850 MHz	257	routine evaluation
1b	GSM 1900 MHz	144.5	routine evaluation
1c	FDD V 850 MHz	316	routine evaluation
1d	FDD IV 1700 MHz	302	routine evaluation
1e	FDD II 1900 MHz	302	routine evaluation
2a	WLAN 2450 MHz	66	routine evaluation
2b	WLAN 5 GHz	27	routine evaluation
2c	Bluetooth 2450 MHz	7.41	$P_2 < P_{ref}$ (P_{ref}: 12 mW at 2.4 GHz)

Table 24: Communication systems values in head position

$SPLSR_{xy}$ = SAR-to-(peak-locations spacing) ratio = $(SAR_x + SAR_y)/L_{xyz}$

b) Body position

Tx No.	Communication system and frequency band	P_{avg} (mW)	remarks
1a	GSM 850 MHz	269	routine evaluation
1b	GSM 1900 MHz	155	routine evaluation
1c	FDD V 850 MHz	316	routine evaluation
1d	FDD IV 1700 MHz	191	routine evaluation
1e	FDD II 1900 MHz	191	routine evaluation
2a	WLAN 2450 MHz	66	routine evaluation
2b	WLAN 5 GHz	27	routine evaluation
2c	Bluetooth 2450 MHz	7.41	$P_2 < P_{ref}$ (P_{ref}: 12 mW at 2.4 GHz)

Table 25: Communication systems in body position

	Position	WWAN			WLAN 2.4GHz			Lxyz	SARmax /W/kg		ΣSAR	SPLSR$_{xy}$
		x	y	z	x	y	z	(cm)	WWAN	WLAN	<1,6W/kg	<0.3
850	left hand	0.067	0.254	-0.171	0.033	0.325	-0.171	7.89	0.294	0.616	**0.910**	**0.12**
850	right hand	0.069	-0.259	-0.170	0.013	-0.291	-0.167	6.46	0.353	0.264	**0.617**	**0.10**
850	rear	-0.024	-0.035	-0.205	-0.044	0.054	-0.202	9.09	0.688	0.398	**1.086**	**0.12**
1900	left hand	0.069	0.252	-0.172	0.033	0.325	-0.171	8.14	0.329	0.616	**0.945**	**0.12**
1900	right hand	0.068	-0.258	-0.172	0.013	-0.291	-0.167	6.37	0.421	0.264	**0.685**	**0.11**
1900	rear	-0.016	-0.046	-0.205	-0.044	0.054	-0.202	10.30	0.651	0.398	**1.049**	**0.10**
FDD V	left hand	0.068	0.279	-0.172	0.033	0.325	-0.171	5.80	0.303	0.616	**0.919**	**0.16**
FDD V	right hand	0.072	-0.264	-0.170	0.013	-0.291	-0.167	6.46	0.365	0.264	**0.629**	**0.10**
FDD V	rear	-0.020	-0.037	-0.205	-0.044	0.054	-0.202	9.39	0.828	0.398	**1.226**	**0.13**
FDD IV	left hand	0.075	0.250	-0.170	0.033	0.325	-0.171	8.59	0.391	0.616	**1.007**	**0.12**
FDD IV	right hand	0.067	-0.253	-0.172	0.013	-0.291	-0.167	6.56	0.585	0.264	**0.849**	**0.13**
FDD IV	rear	-0.012	-0.054	-0.204	-0.044	0.054	-0.202	11.22	0.622	0.398	**1.020**	**0.09**
FDD II	left hand	0.076	0.245	-0.169	0.033	0.325	-0.171	9.07	0.835	0.616	**1.451**	**0.16**
FDD II	right hand	0.069	-0.252	-0.171	0.013	-0.291	-0.167	6.79	0.879	0.264	**1.143**	**0.17**
FDD II	rear	-0.016	-0.051	-0.204	-0.044	0.054	-0.202	10.78	0.729	0.398	**1.127**	**0.10**

Table 26: Peak-locations spacing L$_{xyz}$, SAR$_{max}$ WWAN and WLAN 2.4GHz, ΣSAR and SPLSR$_{xy}$ evaluation

	Position	WWAN			WLAN 5GHz			L	SARmax /W/kg		ΣSAR	SPLSR$_{xy}$
		x	y	z	x	y	z	(cm)	WWAN	WLAN	<1,6W/kg	<0,3
850	left hand	0.067	0.254	-0.171	0.029	0.328	-0.172	8.31	0.294	0.589	**0.883**	**0.11**
850	right hand	0.069	-0.259	-0.170	0.007	-0.306	-0.169	7.84	0.353	0.203	**0.556**	**0.07**
850	rear	-0.024	-0.035	-0.205	-0.036	0.056	-0.204	9.18	0.688	0.294	**0.982**	**0.11**
1900	left hand	0.069	0.252	-0.172	0.029	0.328	-0.172	8.57	0.329	0.589	**0.918**	**0.11**
1900	right hand	0.068	-0.258	-0.172	0.007	-0.306	-0.169	7.77	0.421	0.203	**0.624**	**0.08**
1900	rear	-0.016	-0.046	-0.205	-0.036	0.056	-0.204	10.35	0.651	0.294	**0.945**	**0.09**
FDD V	left hand	0.068	0.279	-0.172	0.029	0.328	-0.172	6.25	0.303	0.589	**0.892**	**0.14**
FDD V	right hand	0.072	-0.264	-0.170	0.007	-0.306	-0.169	7.76	0.365	0.203	**0.568**	**0.07**
FDD V	rear	-0.020	-0.037	-0.205	-0.036	0.056	-0.204	9.45	0.828	0.294	**1.122**	**0.12**
FDD IV	left hand	0.075	0.250	-0.170	0.029	0.328	-0.172	9.02	0.391	0.589	**0.980**	**0.11**
FDD IV	right hand	0.067	-0.253	-0.172	0.007	-0.306	-0.169	8.01	0.585	0.203	**0.788**	**0.10**
FDD IV	rear	-0.012	-0.054	-0.204	-0.036	0.056	-0.204	11.25	0.622	0.294	**0.916**	**0.08**
FDD II	left hand	0.076	0.245	-0.169	0.029	0.328	-0.172	9.50	0.835	0.589	**1.424**	**0.15**
FDD II	right hand	0.069	-0.252	-0.171	0.007	-0.306	-0.169	8.23	0.879	0.203	**1.082**	**0.13**
FDD II	rear	-0.016	-0.051	-0.204	-0.036	0.056	-0.204	10.84	0.729	0.294	**1.023**	**0.09**

Table 27: Peak-locations spacing L$_{xyz}$, SAR$_{max}$ WWAN and WLAN 5GHz, ΣSAR and SPLSR$_{xy}$ evaluation

SPLSR$_{xy}$ = SAR-to-(peak-locations spacing) ratio = (SAR$_x$+SAR$_y$)/L$_{xyz}$

$$L_{xyz} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

Conclusion:
ΣSAR < 1.6 W/kg and SAR-to-(peak-locations spacing) ratio (SPLSR$_{xy}$) is less than 0.3 therefore simultaneous transmission SAR with Volume Scans is not required.

7.1.10 Mobile hotspot SAR measurement positions

Mobile hotspot SAR measurement positions						
mode	front	rear	left edge	right edge	top edge	bottom edge
GSM 850	yes	yes	yes	yes	no	yes
GSM 1900	yes	yes	yes	yes	no	yes
WCDMA FDD V 850	yes	yes	yes	yes	no	yes
WCDMA FDD IV 1700	yes	yes	yes	yes	no	yes
WCDMA FDD II 1900	yes	yes	yes	yes	no	yes
WLAN 2.4GHz	yes	yes	no	yes	yes	no
WLAN 5GHz	yes	yes	no	yes	yes	no
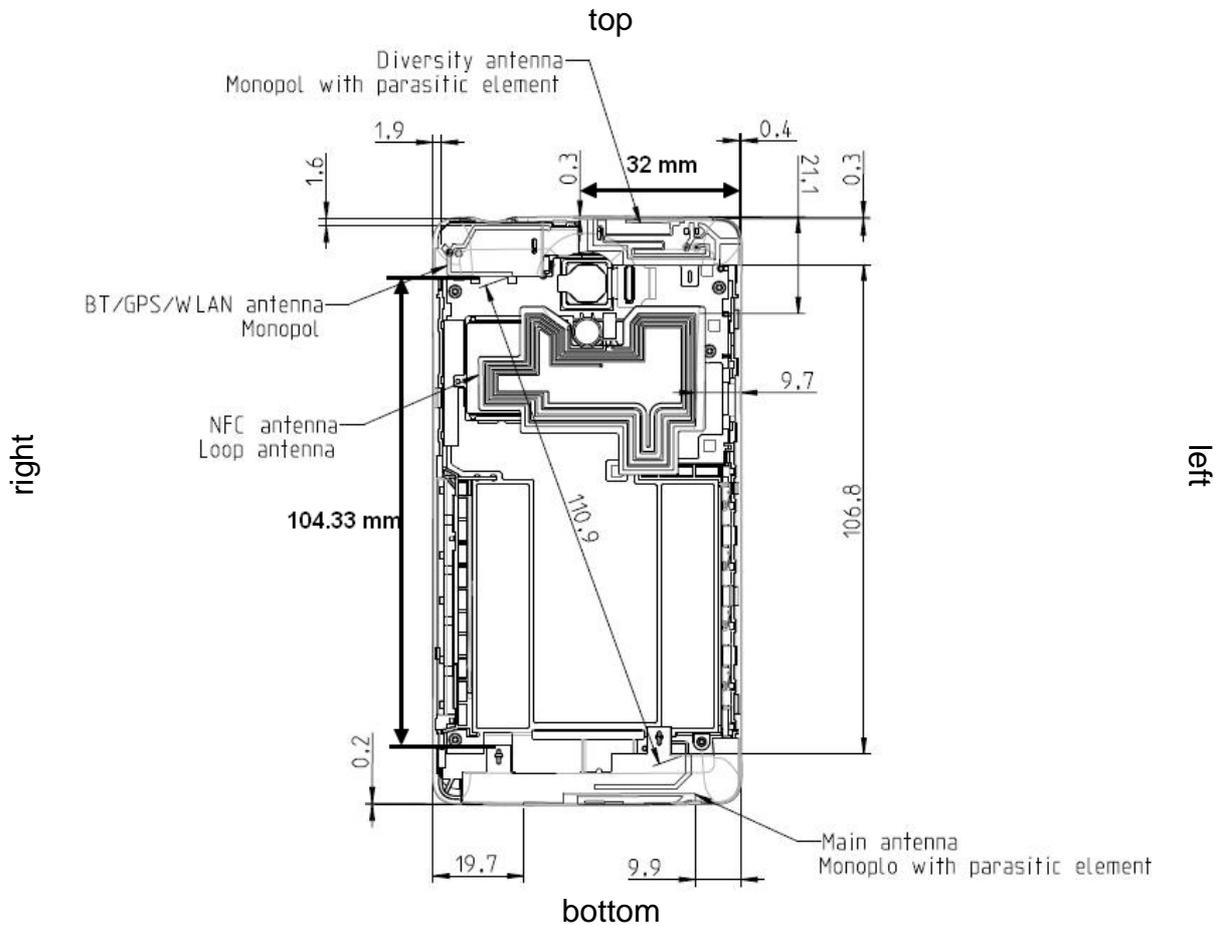
The edges with less than 2.5 cm distance to the TX antennas need to be tested for hotspot SAR.

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	0.138 W/kg	0.145 W/kg	1.6 W/kg	22.5 °C	22.7 °C
190 / 836.6 MHz	cheek	0.231 W/kg	0.274 W/kg	1.6 W/kg	22.5 °C	22.7 °C
251 / 848.8 MHz	cheek	0.294 W/kg	**0.353 W/kg**	1.6 W/kg	22.5 °C	22.7 °C
128 / 824.2 MHz	tilted 15°	0.068 W/kg	0.060 W/kg	1.6 W/kg	22.5 °C	22.7 °C
190 / 836.6 MHz	tilted 15°	0.121 W/kg	0.118 W/kg	1.6 W/kg	22.5 °C	22.7 °C
251 / 848.8 MHz	tilted 15°	0.152 W/kg	0.157 W/kg	1.6 W/kg	22.5 °C	22.7 °C

Table 28: Test results head SAR GSM 850 MHz

Body (hotspot) SAR GSM 850 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
128 / 824.2 MHz	front	10 mm	4 time slots	0.216 W/kg	1.6 W/kg	22.4 °C
190 / 836.6 MHz	front	10 mm	4 time slots	0.363 W/kg	1.6 W/kg	22.4 °C
251 / 848.8 MHz	front	10 mm	4 time slots	0.494 W/kg	1.6 W/kg	22.4 °C
128 / 824.2 MHz	rear	10 mm	4 time slots	0.252 W/kg	1.6 W/kg	22.4 °C
190 / 836.6 MHz	rear	10 mm	4 time slots	0.408 W/kg	1.6 W/kg	22.4 °C
251 / 848.8 MHz	rear	10 mm	4 time slots	**0.688 W/kg**	1.6 W/kg	22.4 °C
190 / 836.6 MHz	left	10 mm	4 time slots	0.089 W/kg	1.6 W/kg	22.4 °C
190 / 836.6 MHz	right	10 mm	4 time slots	0.167 W/kg	1.6 W/kg	22.4 °C
190 / 836.6 MHz	bottom	10 mm	4 time slots	0.222 W/kg	1.6 W/kg	22.4 °C
251 / 848.8 MHz	rear*	10 mm	4 time slots	0.579 W/kg	1.6 W/kg	22.4 °C
Body worn SAR GSM 850 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
190 / 836.6 MHz	rear	15 mm	4 time slots	0.255 W/kg	1.6 W/kg	22.4 °C
190 / 836.6 MHz	rear**	15 mm	1 time slot	0.279 W/kg	1.6 W/kg	22.4 °C

Table 29: Test results body SAR GSM 850 MHz

Top edge position is not required since the distance from the main antenna to the edge is greater than 2.5 cm.

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	0.319 W/kg	**0.421 W/kg**	1.6 W/kg	23.0 °C	22.9 °C
661 / 1880.0 MHz	cheek	0.329 W/kg	0.417 W/kg	1.6 W/kg	23.0 °C	22.9 °C
810 / 1909.8 MHz	cheek	0.327 W/kg	0.401 W/kg	1.6 W/kg	23.0 °C	22.9 °C
512 / 1850.2 MHz	tilted 15°	0.192 W/kg	0.110 W/kg	1.6 W/kg	23.0 °C	23.0 °C
661 / 1880.0 MHz	tilted 15°	0.190 W/kg	0.119 W/kg	1.6 W/kg	23.0 °C	23.0 °C
810 / 1909.8 MHz	tilted 15°	0.179 W/kg	0.117 W/kg	1.6 W/kg	23.0 °C	23.0 °C
512 / 1850.2 MHz	cheek*	-- --	0.399 W/kg	1.6 W/kg	-- --	22.9 °C

Table 30: Test results head SAR GSM 1900 MHz

Body (hotspot) SAR GSM 1900 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
512 / 1850.2 MHz	front	10 mm	4 time slots	0.492 W/kg	1.6 W/kg	23.0 °C
661 / 1880.0 MHz	front	10 mm	4 time slots	0.534 W/kg	1.6 W/kg	23.0 °C
810 / 1909.8 MHz	front	10 mm	4 time slots	0.538 W/kg	1.6 W/kg	23.0 °C
512 / 1850.2 MHz	rear	10 mm	4 time slots	0.642 W/kg	1.6 W/kg	23.0 °C
661 / 1880.0 MHz	rear	10 mm	4 time slots	0.649 W/kg	1.6 W/kg	23.0 °C
810 / 1909.8 MHz	rear	10 mm	4 time slots	0.651 W/kg	1.6 W/kg	23.0 °C
661 / 1880.0 MHz	left	10 mm	4 time slots	0.243 W/kg	1.6 W/kg	23.0 °C
661 / 1880.0 MHz	right	10 mm	4 time slots	0.155 W/kg	1.6 W/kg	23.0 °C
661 / 1880.0 MHz	bottom	10 mm	4 time slots	0.669 W/kg	1.6 W/kg	23.0 °C
661 / 1880.0 MHz	bottom*	10 mm	4 time slots	**0.758 W/kg**	1.6 W/kg	23.0 °C
Body worn SAR GSM 1900 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
661 / 1880.0 MHz	rear**	15 mm	4 time slots	0.320 W/kg	1.6 W/kg	23.0 °C

Table 31: Test results body SAR GSM 1900 MHz

Top edge position is not required since the distance from the main antenna to the edge is greater than 2.5 cm.

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	0.226 W/kg	0.218 W/kg	1.6 W/kg	22.5 °C	22.5 °C
4182 / 836.4 MHz	cheek	0.268 W/kg	0.279 W/kg	1.6 W/kg	22.5 °C	22.5 °C
4233 / 846.6 MHz	cheek	0.303 W/kg	**0.365 W/kg**	1.6 W/kg	22.5 °C	22.5 °C
4132 / 826.4 MHz	tilted 15°	0.126 W/kg	0.097 W/kg	1.6 W/kg	22.5 °C	22.5 °C
4182 / 836.4 MHz	tilted 15°	0.149 W/kg	0.122 W/kg	1.6 W/kg	22.5 °C	22.5 °C
4233 / 846.6 MHz	tilted 15°	0.170 W/kg	0.163 W/kg	1.6 W/kg	22.5 °C	22.5 °C

Table 32: Test results head SAR UMTS FDD V 850 MHz

Body (hotspot) SAR UMTS FDD V 850 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
4132 / 826.4 MHz	front	10 mm	12.2kbit/s	0.443 W/kg	1.6 W/kg	22.8 °C
4182 / 836.4 MHz	front	10 mm	12.2kbit/s	0.502 W/kg	1.6 W/kg	22.8 °C
4233 / 846.6 MHz	front	10 mm	12.2kbit/s	0.546 W/kg	1.6 W/kg	22.8 °C
4132 / 826.4 MHz	rear	10 mm	12.2kbit/s	0.560 W/kg	1.6 W/kg	22.8 °C
4182 / 836.4 MHz	rear	10 mm	12.2kbit/s	0.651 W/kg	1.6 W/kg	22.8 °C
4233 / 846.6 MHz	rear	10 mm	12.2kbit/s	**0.828 W/kg**	1.6 W/kg	22.8 °C
4182 / 836.4 MHz	left	10 mm	12.2kbit/s	0.111 W/kg	1.6 W/kg	22.8 °C
4182 / 836.4 MHz	right	10 mm	12.2kbit/s	0.225 W/kg	1.6 W/kg	22.8 °C
4182 / 836.4 MHz	bottom	10 mm	12.2kbit/s	0.355 W/kg	1.6 W/kg	22.8 °C
4233 / 846.6 MHz	rear*	10 mm	12.2kbit/s	0.750 W/kg	1.6 W/kg	22.8 °C
Body worn SAR UMTS FDD V 850 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
4182 / 836.4 MHz	rear**	15 mm	12.2kbit/s	0.399 W/kg	1.6 W/kg	22.8 °C

Table 33: Test results body SAR UMTS FDD V 850 MHz

Top edge position is not required since the distance from the main antenna to the edge is greater than 2.5 cm.

Head SAR UMTS FDD IV 1750 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature left	right
1312 / 1712.4 MHz	cheek	0.297 W/kg	0.457 W/kg	1.6 W/kg	23.3 °C	23.6 °C
1412 / 1732.4 MHz	cheek	0.368 W/kg	0.563 W/kg	1.6 W/kg	23.3 °C	23.6 °C
1513 / 1752.6 MHz	cheek	0.391 W/kg	**0.585 W/kg**	1.6 W/kg	23.3 °C	23.6 °C
1312 / 1712.4 MHz	tilted 15°	0.231 W/kg	0.098 W/kg	1.6 W/kg	23.3 °C	23.6 °C
1412 / 1732.4 MHz	tilted 15°	0.217 W/kg	0.136 W/kg	1.6 W/kg	23.6 °C	23.6 °C
1513 / 1752.6 MHz	tilted 15°	0.225 W/kg	0.145 W/kg	1.6 W/kg	23.6 °C	23.6 °C
1513 / 1752.6 MHz	cheek*	-- --	0.575 W/kg	1.6 W/kg	-- --	23.6 °C

Table 34: Test results head SAR UMTS FDD IV 1750 MHz

Body (hotspot) SAR UMTS FDD IV 1750 MHz (averaged over 1g tissue volume) power back of						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
1312 / 1712.4 MHz	front	10 mm	12.2kbit/s	0.495 W/kg	1.6 W/kg	22.4 °C
1412 / 1732.4 MHz	front	10 mm	12.2kbit/s	0.505 W/kg	1.6 W/kg	22.4 °C
1513 / 1752.6 MHz	front	10 mm	12.2kbit/s	0.622 W/kg	1.6 W/kg	22.4 °C
1312 / 1712.4 MHz	rear	10 mm	12.2kbit/s	0.690 W/kg	1.6 W/kg	22.4 °C
1412 / 1732.4 MHz	rear	10 mm	12.2kbit/s	0.834 W/kg	1.6 W/kg	22.4 °C
1513 / 1752.6 MHz	rear	10 mm	12.2kbit/s	0.877 W/kg	1.6 W/kg	22.4 °C
1412 / 1732.4 MHz	left	10 mm	12.2kbit/s	0.156 W/kg	1.6 W/kg	22.4 °C
1412 / 1732.4 MHz	right	10 mm	12.2kbit/s	0.095 W/kg	1.6 W/kg	22.4 °C
1312 / 1712.4 MHz	bottom	10 mm	12.2kbit/s	1.110 W/kg	1.6 W/kg	22.4 °C
1412 / 1732.4 MHz	bottom	10 mm	12.2kbit/s	0.946 W/kg	1.6 W/kg	22.4 °C
1513 / 1752.6 MHz	bottom	10 mm	12.2kbit/s	**1.120 W/kg**	1.6 W/kg	22.4 °C
1513 / 1752.6 MHz	bottom*	10 mm	12.2kbit/s	1.000 W/kg	1.6 W/kg	22.4 °C
1513 / 1752.6 MHz	rear*	10 mm	12.2kbit/s	0.840 W/kg	1.6 W/kg	22.4 °C
Body worn SAR UMTS FDD IV 1750 MHz (averaged over 1g tissue volume) full power						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
1412 / 1732.4 MHz	rear**	15 mm	12.2kbit/s	0.537 W/kg	1.6 W/kg	22.4 °C

Table 35: Test results body SAR UMTS FDD IV 1750 MHz

Top edge position is not required since the distance from the main antenna to the edge is greater than 2.5 cm.

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	0.823 W/kg	0.793 W/kg	1.6 W/kg	22.9 °C	22.9 °C
9400 / 1880.0 MHz	cheek	0.835 W/kg	0.879 W/kg	1.6 W/kg	22.9 °C	22.9 °C
9538 / 1907.6 MHz	cheek	0.686 W/kg	0.848 W/kg	1.6 W/kg	22.9 °C	22.9 °C
9262 / 1852.4 MHz	tilted 15°	0.451 W/kg	0.250 W/kg	1.6 W/kg	22.9 °C	22.9 °C
9400 / 1880.0 MHz	tilted 15°	0.503 W/kg	0.296 W/kg	1.6 W/kg	22.9 °C	22.9 °C
9538 / 1907.6 MHz	tilted 15°	0.407 W/kg	0.282 W/kg	1.6 W/kg	22.9 °C	22.9 °C
9400 / 1880.0 MHz	cheek*	-- --	**1.070 W/kg**	1.6 W/kg	-- --	22.9 °C

Table 36: Test results head SAR UMTS FDD II 1900 MHz

Body (hotspot) SAR UMTS FDD II 1900 MHz (averaged over 1g tissue volume) power back of						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
9262 / 1852.4 MHz	front	10 mm	12.2kbit/s	0.660 W/kg	1.6 W/kg	23.5 °C
9400 / 1880.0 MHz	front	10 mm	12.2kbit/s	0.729 W/kg	1.6 W/kg	23.5 °C
9538 / 1907.6 MHz	front	10 mm	12.2kbit/s	0.556 W/kg	1.6 W/kg	23.5 °C
9262 / 1852.4 MHz	rear	10 mm	12.2kbit/s	0.883 W/kg	1.6 W/kg	23.5 °C
9400 / 1880.0 MHz	rear	10 mm	12.2kbit/s	0.951 W/kg	1.6 W/kg	23.5 °C
9538 / 1907.6 MHz	rear	10 mm	12.2kbit/s	0.758 W/kg	1.6 W/kg	23.5 °C
9400 / 1880.0 MHz	left	10 mm	12.2kbit/s	0.368 W/kg	1.6 W/kg	23.5 °C
9400 / 1880.0 MHz	right	10 mm	12.2kbit/s	0.241 W/kg	1.6 W/kg	23.5 °C
9262 / 1852.4 MHz	bottom	10 mm	12.2kbit/s	1.050 W/kg	1.6 W/kg	23.5 °C
9400 / 1880.0 MHz	bottom	10 mm	12.2kbit/s	**1.080 W/kg**	1.6 W/kg	23.5 °C
9538 / 1907.6 MHz	bottom	10 mm	12.2kbit/s	1.000 W/kg	1.6 W/kg	23.5 °C
9400 / 1880.0 MHz	bottom*	10 mm	12.2kbit/s	1.030 W/kg	1.6 W/kg	23.5 °C
Body worn SAR UMTS FDD II 1900 MHz (averaged over 1g tissue volume) full power						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
9262 / 1852.4 MHz	rear**	15 mm	12.2kbit/s	0.796 W/kg	1.6 W/kg	23.5 °C
9400 / 1880.0 MHz	rear**	15 mm	12.2kbit/s	0.884 W/kg	1.6 W/kg	23.5 °C
9538 / 1907.6 MHz	rear**	15 mm	12.2kbit/s	0.663 W/kg	1.6 W/kg	23.5 °C

Table 37: Test results body SAR UMTS FDD II 1900 MHz

Top edge position is not required since the distance from the main antenna to the edge is greater than 2.5 cm.

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	0.546 W/kg	0.264 W/kg	1.6 W/kg	22.6 °C	22.6 °C
6 / 2437 MHz	cheek	0.426 W/kg	0.197 W/kg	1.6 W/kg	22.6 °C	22.6 °C
11 / 2462 MHz	cheek	0.310 W/kg	0.132 W/kg	1.6 W/kg	22.6 °C	22.6 °C
1 / 2412 MHz	tilted 15°	0.433 W/kg	0.239 W/kg	1.6 W/kg	22.6 °C	22.6 °C
6 / 2437 MHz	tilted 15°	0.334 W/kg	0.181 W/kg	1.6 W/kg	22.6 °C	22.6 °C
11 / 2462 MHz	tilted 15°	0.266 W/kg	0.123 W/kg	1.6 W/kg	22.6 °C	22.6 °C
1 / 2412 MHz	cheek*	**0.616 W/kg**	--- --	1.6 W/kg	22.6 °C	-- --

Table 38: Test results head SAR WLAN 2450 MHz

Body (hotspot) SAR WLAN 2450 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
1 / 2412 MHz	front	10 mm	CCK 1 Mbit/s	0.134 W/kg	1.6 W/kg	22.3 °C
6 / 2437 MHz	front	10 mm	CCK 1 Mbit/s	0.130 W/kg	1.6 W/kg	22.3 °C
11 / 2462 MHz	front	10 mm	CCK 1 Mbit/s	0.085 W/kg	1.6 W/kg	22.3 °C
1 / 2412 MHz	rear	10 mm	CCK 1 Mbit/s	0.306 W/kg	1.6 W/kg	22.3 °C
6 / 2437 MHz	rear	10 mm	CCK 1 Mbit/s	0.394 W/kg	1.6 W/kg	22.3 °C
11 / 2462 MHz	rear	10 mm	CCK 1 Mbit/s	**0.398 W/kg**	1.6 W/kg	22.3 °C
6 / 2437 MHz	right	10 mm	CCK 1 Mbit/s	0.206 W/kg	1.6 W/kg	22.3 °C
6 / 2437 MHz	top edge	10 mm	CCK 1 Mbit/s	0.219 W/kg	1.6 W/kg	22.3 °C
Body worn SAR WLAN 2450 MHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
6 / 2437 MHz	rear**	15 mm	CCK 1 Mbit/s	0.115 W/kg	1.6 W/kg	22.3 °C

Table 39: Test results body SAR WLAN 2450 MHz

Bottom and left edge position is not required since the distance from the WLAN antenna to the edge is greater than 2.5 cm.

Head SAR WLAN 5 GHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Left hand test result	Right hand test result	Limit	Liquid temperature left	right
Ch40/5200MHz	cheek	0.447 W/kg	0.164 W/kg	1.6 W/kg	21.7 °C	21.7 °C
Ch56/5280MHz	cheek	0.514 W/kg	0.186 W/kg	1.6 W/kg	21.7 °C	21.7 °C
Ch140/5700MHz	cheek	0.206 W/kg	0.188 W/kg	1.6 W/kg	21.7 °C	21.7 °C
Ch149/5745MHz	cheek	0.215 W/kg	0.203 W/kg	1.6 W/kg	21.7 °C	21.7 °C
Ch40/5200MHz	tilted 15°	0.266 W/kg	0.175 W/kg	1.6 W/kg	21.7 °C	21.7 °C
Ch56/5280MHz	tilted 15°	0.308 W/kg	0.148 W/kg	1.6 W/kg	21.7 °C	21.7 °C
Ch140/5700MHz	tilted 15°	0.184 W/kg	0.215 W/kg	1.6 W/kg	21.7 °C	21.7 °C
Ch149/5745MHz	tilted 15°	0.211 W/kg	0.206 W/kg	1.6 W/kg	21.7 °C	21.7 °C
Ch56/5280MHz	cheek*	**0.589 W/kg**	-- --	1.6 W/kg	21.7 °C	--- --

Table 40: Test results head SAR WLAN 5 GHz

Body hotspot SAR WLAN 5 GHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
Ch40/5200MHz	front	10 mm	OFDM 6Mbit/s	0.060 W/kg	1.6 W/kg	23.4 °C
Ch56/5280MHz	front	10 mm	OFDM 6Mbit/s	0.062 W/kg	1.6 W/kg	23.4 °C
Ch140/5700MHz	front	10 mm	OFDM 6Mbit/s	0.058 W/kg	1.6 W/kg	23.4 °C
Ch149/5745MHz	front	10 mm	OFDM 6Mbit/s	0.044 W/kg	1.6 W/kg	23.4 °C
Ch40/5200MHz	rear	10 mm	OFDM 6Mbit/s	0.148 W/kg	1.6 W/kg	23.4 °C
Ch56/5280MHz	rear	10 mm	OFDM 6Mbit/s	0.098 W/kg	1.6 W/kg	23.4 °C
Ch140/5700MHz	rear	10 mm	OFDM 6Mbit/s	**0.294 W/kg**	1.6 W/kg	23.4 °C
Ch149/5745MHz	rear	10 mm	OFDM 6Mbit/s	0.282 W/kg	1.6 W/kg	23.4 °C
Ch40/5200MHz	right	10 mm	OFDM 6Mbit/s	0.159 W/kg	1.6 W/kg	23.4 °C
Ch56/5280MHz	right	10 mm	OFDM 6Mbit/s	0.182 W/kg	1.6 W/kg	23.4 °C
Ch140/5700MHz	right	10 mm	OFDM 6Mbit/s	0.142 W/kg	1.6 W/kg	23.4 °C
Ch149/5745MHz	right	10 mm	OFDM 6Mbit/s	0.135 W/kg	1.6 W/kg	23.4 °C
Ch40/5200MHz	top edge	10 mm	OFDM 6Mbit/s	0.120 W/kg	1.6 W/kg	23.4 °C
Ch56/5280MHz	top edge	10 mm	OFDM 6Mbit/s	0.064 W/kg	1.6 W/kg	23.4 °C
Ch140/5700MHz	top edge	10 mm	OFDM 6Mbit/s	0.098 W/kg	1.6 W/kg	23.4 °C
Ch149/5745MHz	top edge	10 mm	OFDM 6Mbit/s	0.113 W/kg	1.6 W/kg	23.4 °C
Body worn SAR WLAN 5 GHz (averaged over 1g tissue volume)						
Channel / frequency	Position	Distance	test condition	Body worn test result	Limit	Liquid temperature
Ch140/5700MHz	rear**	15 mm	OFDM 6Mbit/s	0.052 W/kg	1.6 W/kg	23.4 °C

Table 41: Test results body SAR WLAN 5 GHz

Bottom and left edge position is not required since the distance from the WLAN antenna to the edge is greater than 2.5 cm.

* - repeated at the highest SAR measurement according to the FCC KDB 865664
** - measurements were performed with headset

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 2.4 for details).

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

WLAN was tested in 802.11b mode with 1 MBit/s and in 802.11a mode with 6 MBit/s. According to KDB 248227 the SAR testing for 802.11g/n is not required since the maximum power of 802.11g/n is less ¼ dB higher than maximum power of 802.11a/b.

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.

Per KDB pub 941225 D06 the edges with antennas within 2.5 cm are required to be evaluated for SAR to cover WLAN hot spot function.

Tests in body position were performed with 10 mm air gap between DUT and SAM, with additional delta measurements at 15 mm distance to cover voice call operation with headset.

The output power was reduced at WCDMA FDD II and FDD IV bands when hotspot mode was active.

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.

used	Equipment	Type	Manufacturer	Serial No.	Last Calibration	Frequency (months)
☒	Dosimetric E-Field Probe	ET3DV6	Schmid & Partner Engineering AG	1558	August 23, 2011	12
☒	Dosimetric E-Field Probe	ET3DV6	Schmid & Partner Engineering AG	1559	January 18, 2012	12
☒	Dosimetric E-Field Probe	EX3DV4	Schmid & Partner Engineering AG	3566	August 24, 2011	12
☒	900 MHz System Validation Dipole	D900V2	Schmid & Partner Engineering AG	102	August 15, 2011	12
☒	1800 MHz System Validation Dipole	D1800V2	Schmid & Partner Engineering AG	287	August 17, 2011	12
☒	1900 MHz System Validation Dipole	D1900V2	Schmid & Partner Engineering AG	5d009	August 17, 2011	12
☒	2450 MHz System Validation Dipole	D2450V2	Schmid & Partner Engineering AG	710	August 19, 2011	12
☒	5 GHz System Validation Dipole	D5GHzV2	Schmid & Partner Engineering AG	1055	January 16, 2012	12
☒	Data acquisition electronics	DAE3V1	Schmid & Partner Engineering AG	413	January 12, 2012	12
☒	Data acquisition electronics	DAE3V1	Schmid & Partner Engineering AG	477	May 09, 2012	12
☒	Software	DASY 4 V4.5	Schmid & Partner Engineering AG	---	N/A	--
☒	Software	DASY52 52.8.1	Schmid & Partner Engineering AG	---	N/A	--
☒	Phantom	SAM	Schmid & Partner Engineering AG	---	N/A	--
☒	Universal Radio Communication Tester	CMU 200	Rohde & Schwarz	106826	March 06, 2012	24
☐	Universal Radio Communication Tester	CMW500	Rohde & Schwarz	102375	January 4, 2011	24
☒	Network Analyser 300 kHz to 6 GHz	8753ES	Hewlett Packard)*	US39174436	February 24, 2012	24
☒	Dielectric Probe Kit	85070C	Hewlett Packard	US99360146	N/A	12
☒	Signal Generator	8665A	Hewlett Packard	2833A00112	January 6, 2012	12
☒	Amplifier	25S1G4 (25 Watt)	Amplifier Reasearch	20452	N/A	--
☒	Power Meter	NRP	Rohde & Schwarz	101367	January 6, 2011	24
☒	Power Meter Sensor	NRP Z22	Rohde & Schwarz	100227	January 9, 2012	12
☒	Power Meter Sensor	NRP Z22	Rohde & Schwarz	100234	January 9, 2012	12
☒	Directional Coupler	778D	Hewlett Packard	19171	January 8, 2012	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: 16.07.2012 11:08:41Date/Time: 16.07.2012 11:12:15

SystemPerformanceCheck-D900 head 2012-07-16
DUT: Dipole 900 MHz; Type: D900V2; Serial: 102
Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used: f = 900 MHz; σ = 0.96 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
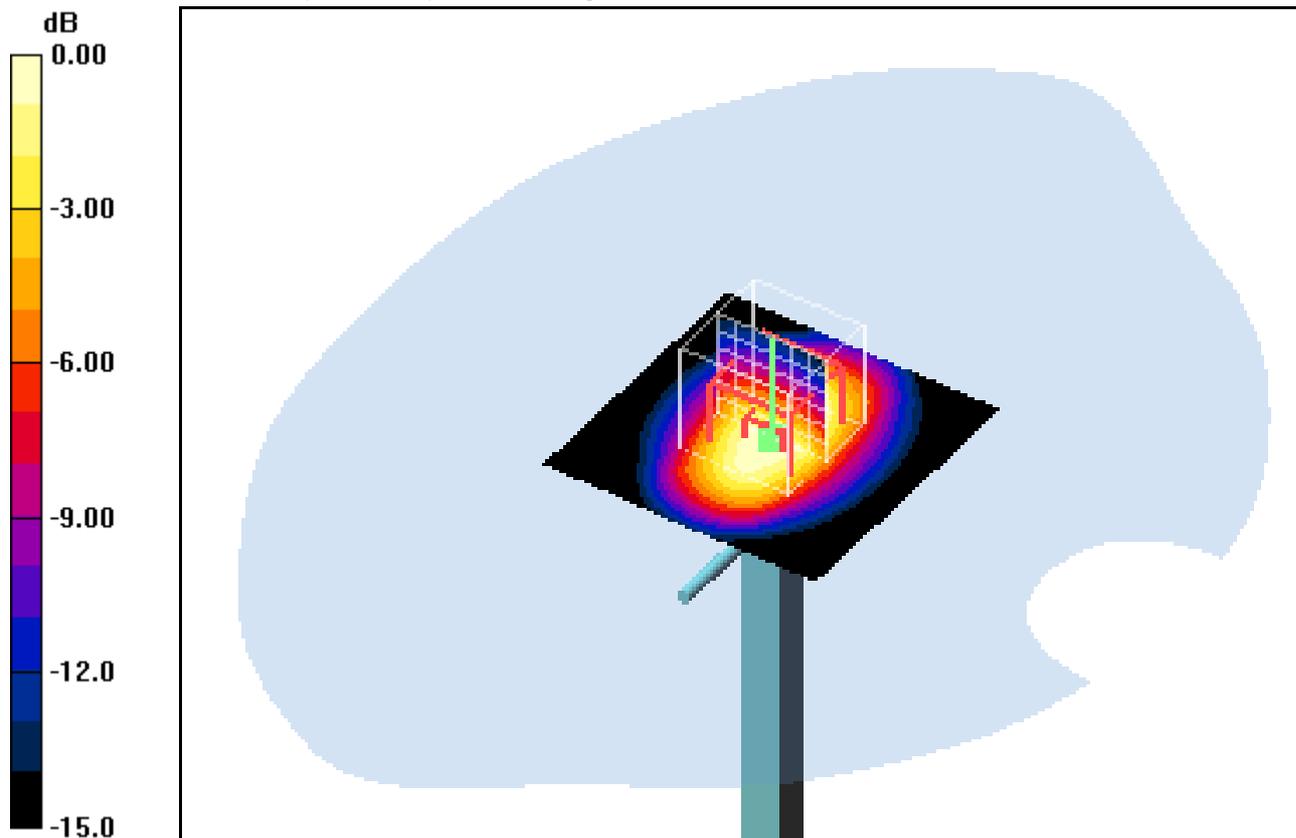Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.87, 5.87, 5.87); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 12.2 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 118.3 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 16.7 W/kg
SAR(1 g) = 11.4 mW/g; SAR(10 g) = 7.34 mW/g
Maximum value of SAR (measured) = 12.3 mW/g
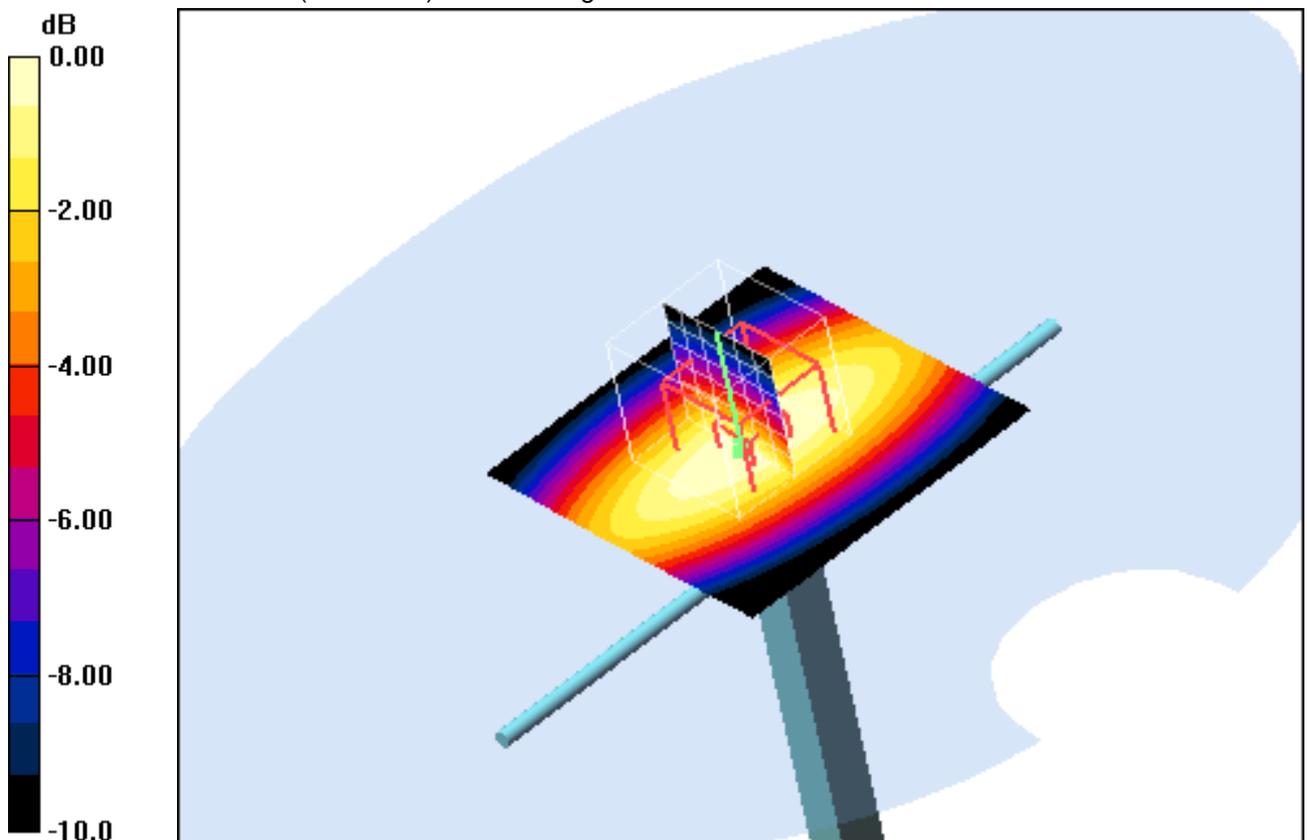
0 dB = 12.3mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 17.07.2012 12:17:56Date/Time: 17.07.2012 12:21:16

SystemPerformanceCheck-D900 head 2012-07-17

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

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

Medium: HSL900 Medium parameters used: f = 900 MHz; σ = 0.96 mho/m; ε_r = 40.5; ρ = 1000 kg/m³
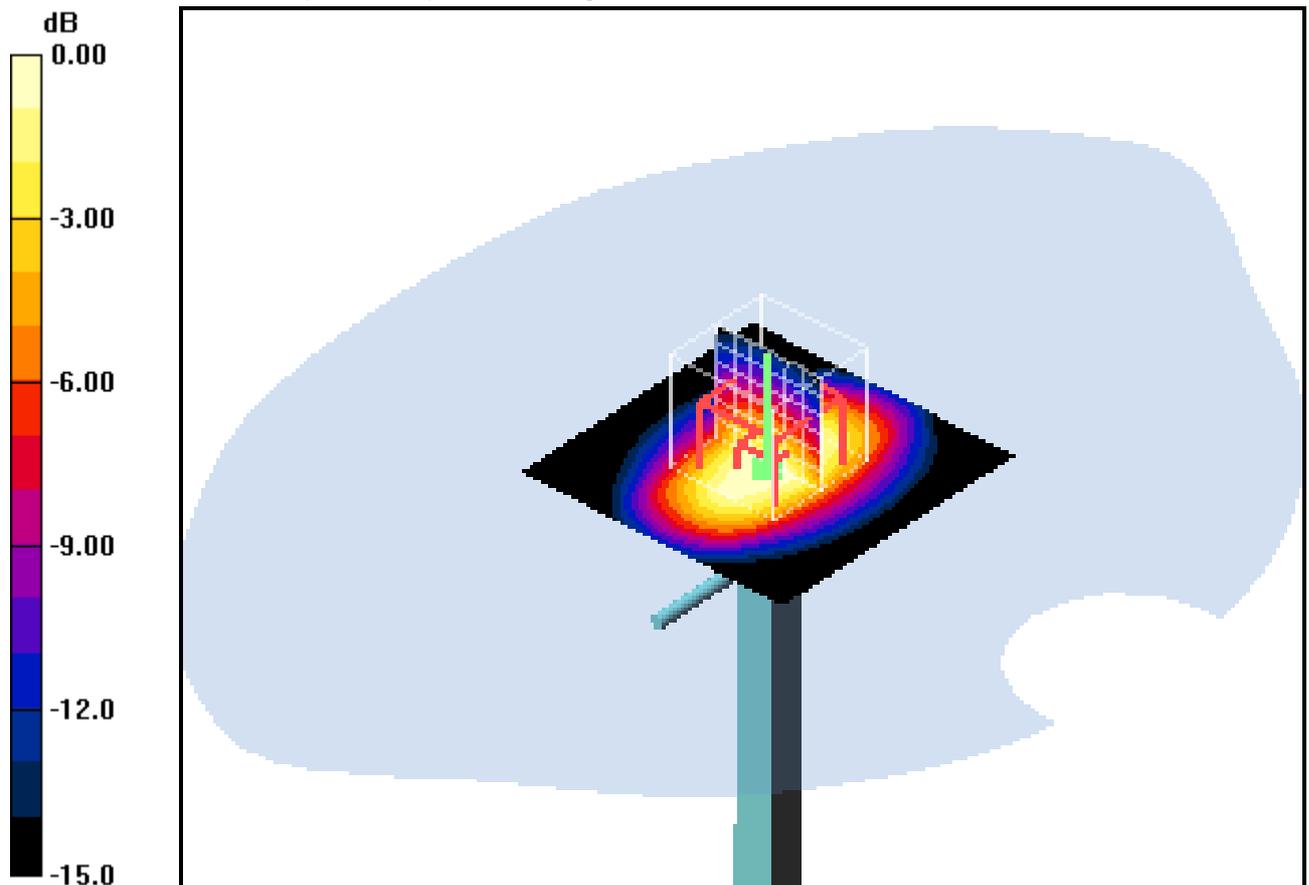
Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.87, 5.87, 5.87); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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=15mm, dy=15mm

Maximum value of SAR (interpolated) = 12.4 mW/g

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

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

Reference Value = 118.7 V/m; Power Drift = 0.021 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 11.7 mW/g; SAR(10 g) = 7.47 mW/g

Maximum value of SAR (measured) = 12.6 mW/g
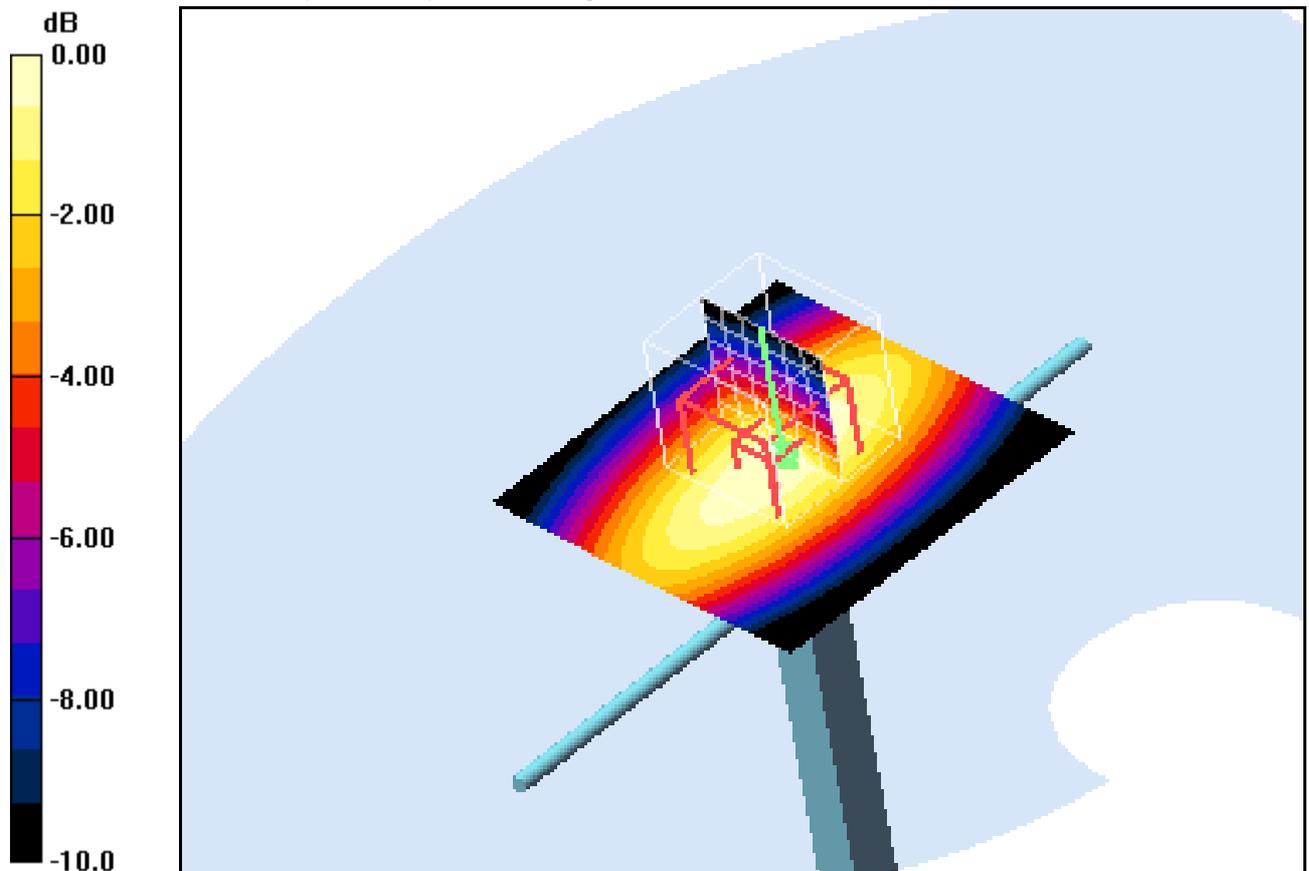
0 dB = 12.6mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 22.7°C

SystemPerformanceCheck-D900 body 2012-07-18

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

Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used: f = 900 MHz; σ = 1.05 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3
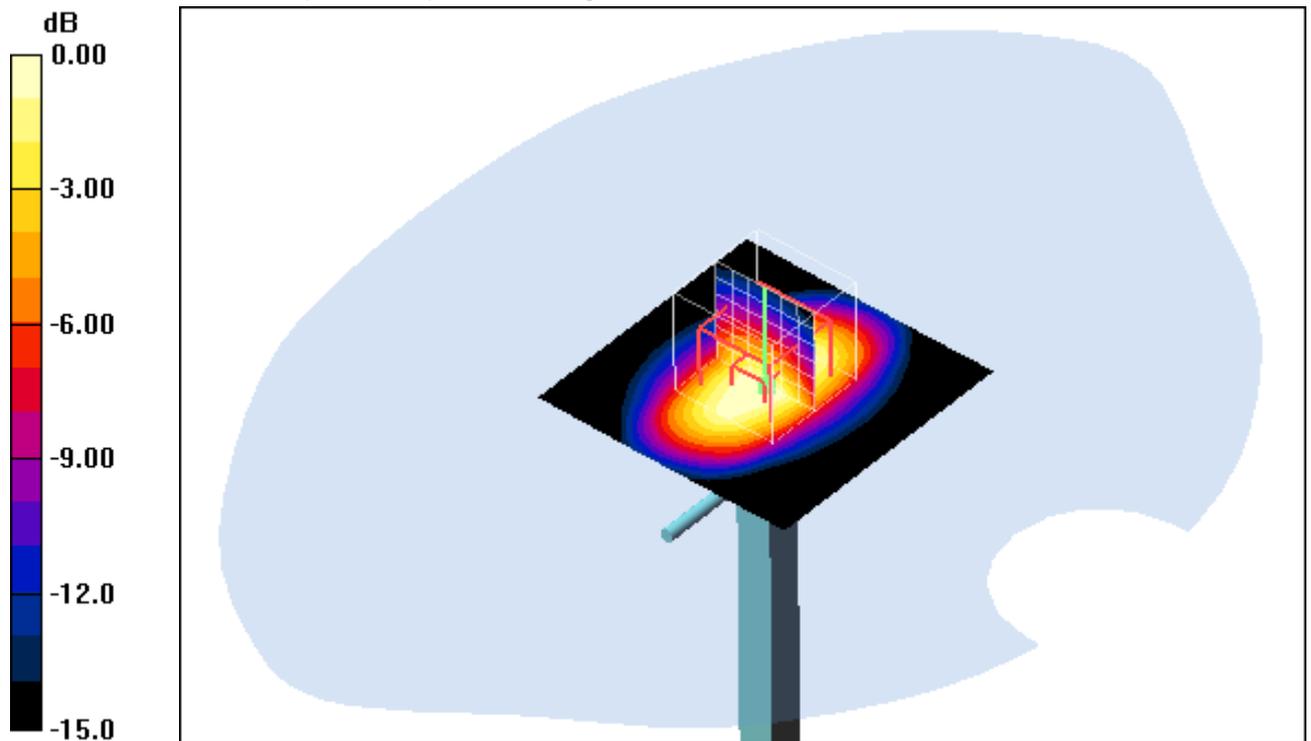Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.77, 5.77, 5.77); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (interpolated) = 11.6 mW/g

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

dx=5mm, dy=5mm, dz=5mm
Reference Value = 110.5 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 15.7 W/kg
SAR(1 g) = 10.8 mW/g; SAR(10 g) = 7.09 mW/g
Maximum value of SAR (measured) = 11.7 mW/g
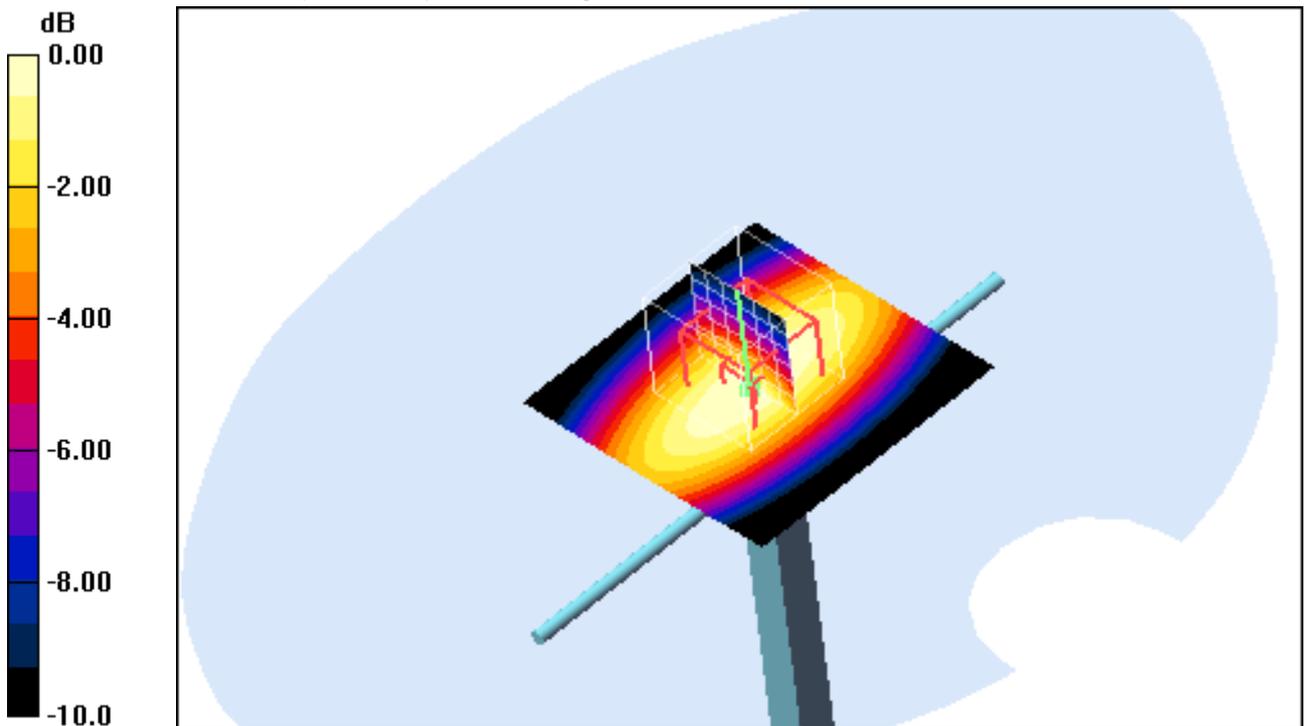
0 dB = 11.7mW/g

Additional information:
ambient temperature: 22.9°C; liquid temperature: 22.8°C

CETECOM™

Date/Time: 19.07.2012 14:10:44Date/Time: 19.07.2012 14:14:05

SystemPerformanceCheck-D900 body 2012-07-19

DUT: Dipole 900 MHz; Type: D900V2; Serial: 102
Communication System: CW; Frequency: 900 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used: f = 900 MHz; σ = 1.05 mho/m; $ε_r$ = 54.3; ρ = 1000 kg/m^3
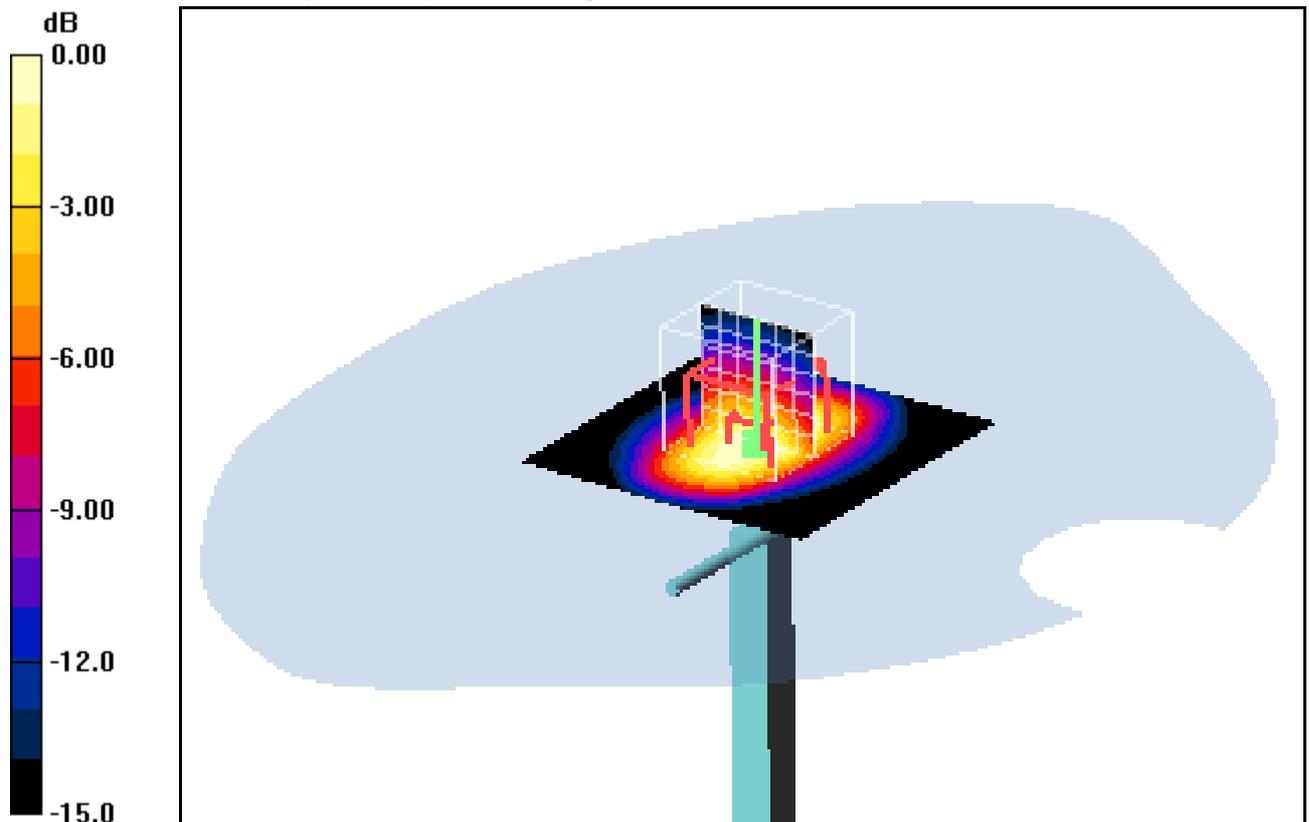Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.77, 5.77, 5.77); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 12.1 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 113.1 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 16.1 W/kg
SAR(1 g) = 11.3 mW/g; SAR(10 g) = 7.37 mW/g
Maximum value of SAR (measured) = 12.3 mW/g
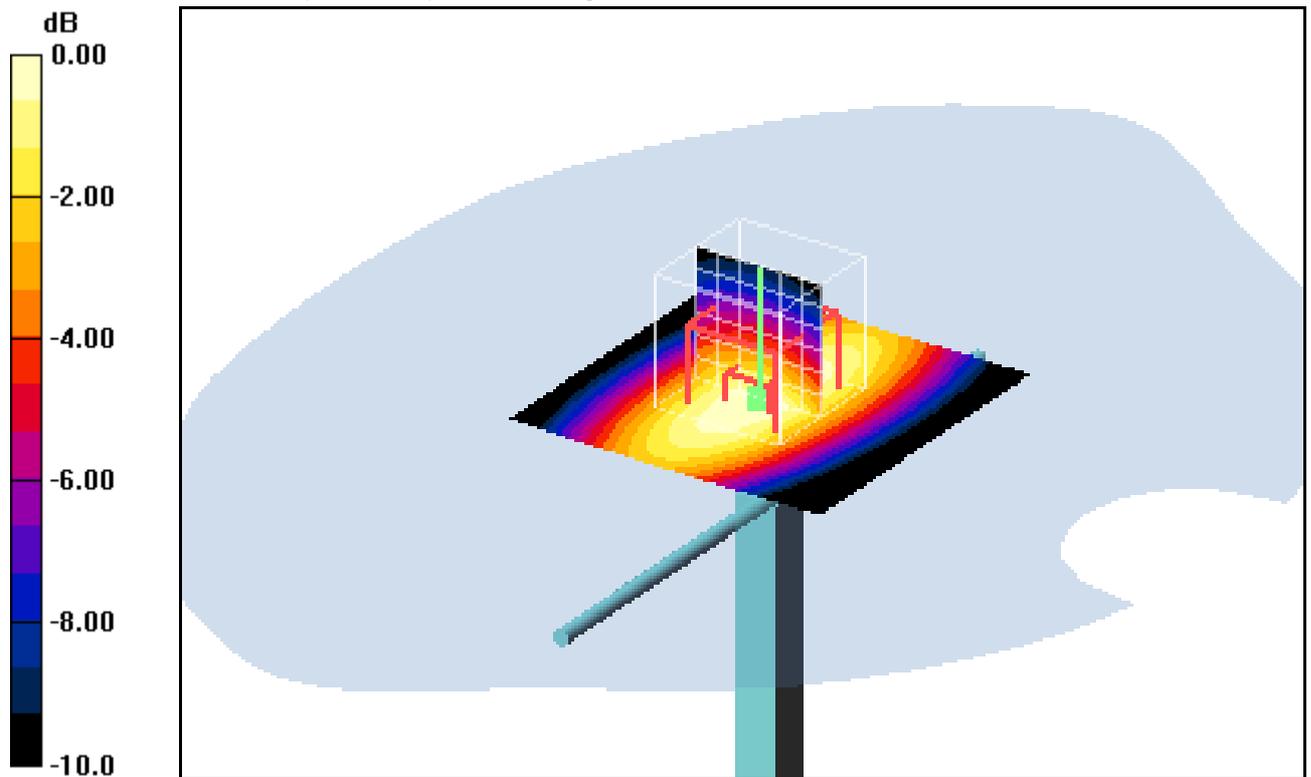
0 dB = 12.3mW/g

Additional information:
ambient temperature: 22.9°C; liquid temperature: 22.4°C

CETECOM™

Date/Time: 04.07.2012 09:49:33Date/Time: 04.07.2012 09:53:10

SystemPerformanceCheck-D1800 head 2012-07-04
DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 287
Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used: f = 1800 MHz; σ = 1.43 mho/m; $ε_r$ = 39.8; ρ = 1000 kg/m^3
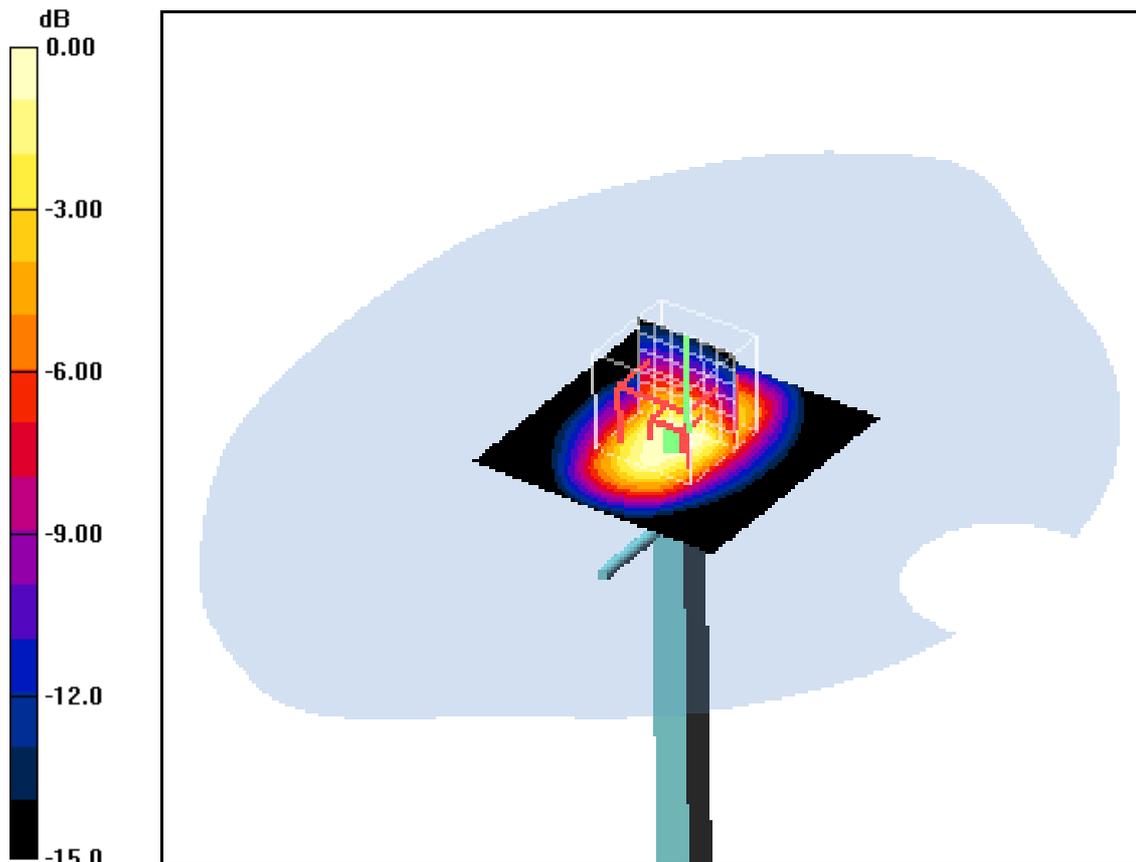Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 49.1 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 178.7 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 60.3 W/kg
SAR(1 g) = 36.2 mW/g; SAR(10 g) = 19.6 mW/g
Maximum value of SAR (measured) = 41.0 mW/g

0 dB = 41.0mW/g

Additional information:
ambient temperature: 23.0°C; liquid temperature: 22.7°C

Date/Time: 05.07.2012 12:27:22Date/Time: 05.07.2012 12:30:57

SystemPerformanceCheck-D1800 head 2012-07-05
DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 287
Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used: f = 1800 MHz; σ = 1.43 mho/m; $ε_r$ = 39.8; ρ = 1000 kg/m^3
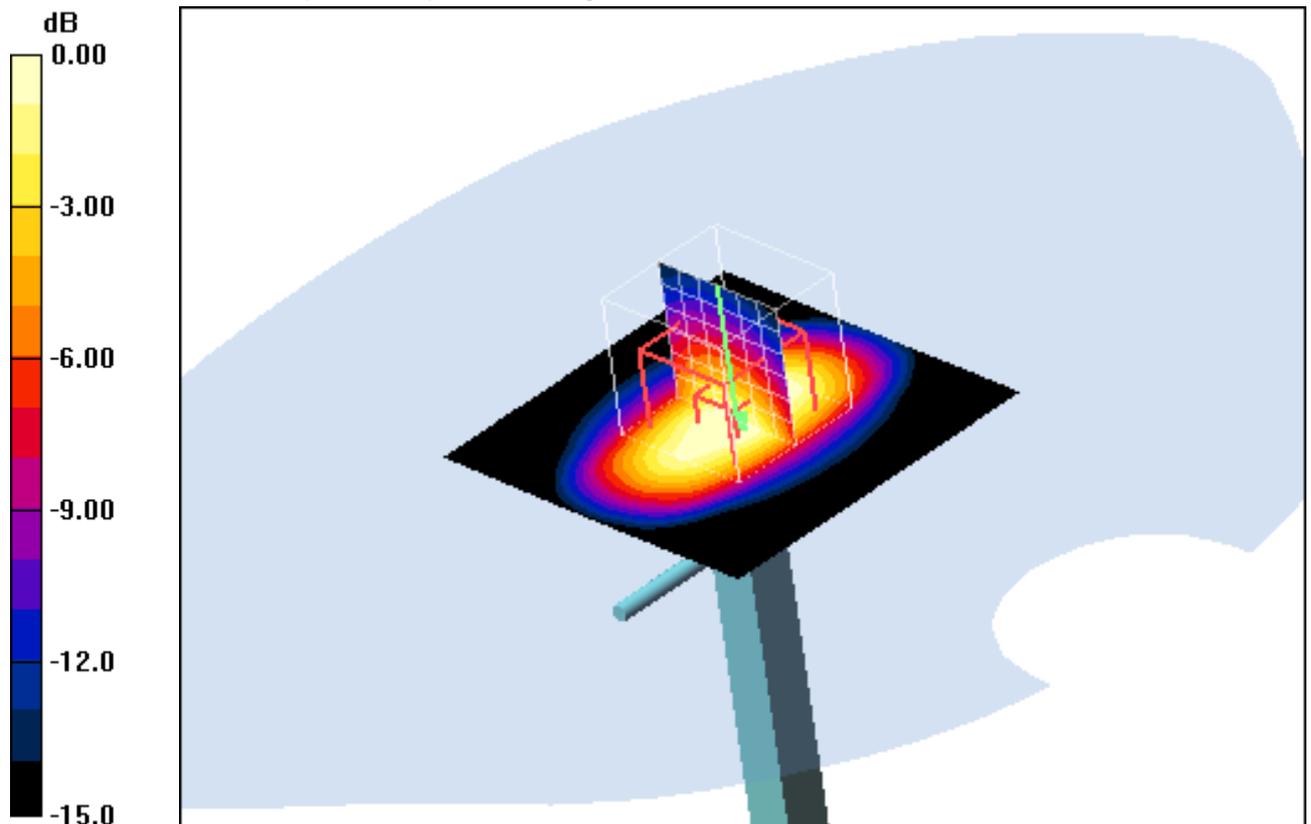Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

d=15mm, Pin=1000mW/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 49.8 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 180.8 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 62.0 W/kg
SAR(1 g) = 37.2 mW/g; SAR(10 g) = 20.1 mW/g
Maximum value of SAR (measured) = 42.1 mW/g

0 dB = 42.1mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.6°C

Date/Time: 23.07.2012 12:01:02Date/Time: 23.07.2012 12:04:32

SystemPerformanceCheck-D1800 body 2012-07-23

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 287
Communication System: CW; Frequency: 1800 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used: f = 1800 MHz; σ = 1.57 mho/m; ε_r = 52.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 57.0 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 181.8 V/m; Power Drift = 0.011 dB
Peak SAR (extrapolated) = 69.9 W/kg
SAR(1 g) = 40.4 mW/g; SAR(10 g) = 21.4 mW/g
Maximum value of SAR (measured) = 46.1 mW/g

0 dB = 46.1mW/g

Additional information:
ambient temperature: 22.1°C; liquid temperature: 22.0°C

Date/Time: 09.07.2012 09:42:07Date/Time: 09.07.2012 09:45:45

SystemPerformanceCheck-D1900 head 2012-07-09
DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1900 MHz; σ = 1.38 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 54.1 mW/g

### d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 189.0 V/m; Power Drift = -0.055 dB
Peak SAR (extrapolated) = 71.0 W/kg
SAR(1 g) = 39.5 mW/g; SAR(10 g) = 20.8 mW/g
Maximum value of SAR (measured) = 44.3 mW/g

0 dB = 44.3mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 23.0°C

Date/Time: 10.07.2012 12:16:45Date/Time: 10.07.2012 12:20:22

SystemPerformanceCheck-D1900 head 2012-07-10

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d009
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1900 MHz; σ = 1.38 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 54.1 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 188.8 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 72.4 W/kg
SAR(1 g) = 40.2 mW/g; SAR(10 g) = 21.1 mW/g
Maximum value of SAR (measured) = 45.1 mW/g

0 dB = 45.1mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

Date/Time: 25.07.2012 15:18:28Date/Time: 25.07.2012 15:21:59

SystemPerformanceCheck-D1900 body 2012-07-25

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 MHz; σ = 1.5 mho/m; $ε_r$ = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 58.2 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 184.6 V/m; Power Drift = 0.032 dB
Peak SAR (extrapolated) = 70.3 W/kg
SAR(1 g) = 40.7 mW/g; SAR(10 g) = 21.7 mW/g
Maximum value of SAR (measured) = 46.0 mW/g

0 dB = 46.0mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.1°C

Date/Time: 26.07.2012 09:41:58Date/Time: 26.07.2012 09:45:29

SystemPerformanceCheck-D1900 body 2012-07-26
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 MHz; σ = 1.5 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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=15mm, dy=15mm
Maximum value of SAR (interpolated) = 53.5 mW/g

d=15mm, Pin=1000mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 176.7 V/m; Power Drift = 0.031 dB
Peak SAR (extrapolated) = 67.3 W/kg
SAR(1 g) = 37.7 mW/g; SAR(10 g) = 20.1 mW/g
Maximum value of SAR (measured) = 42.5 mW/g
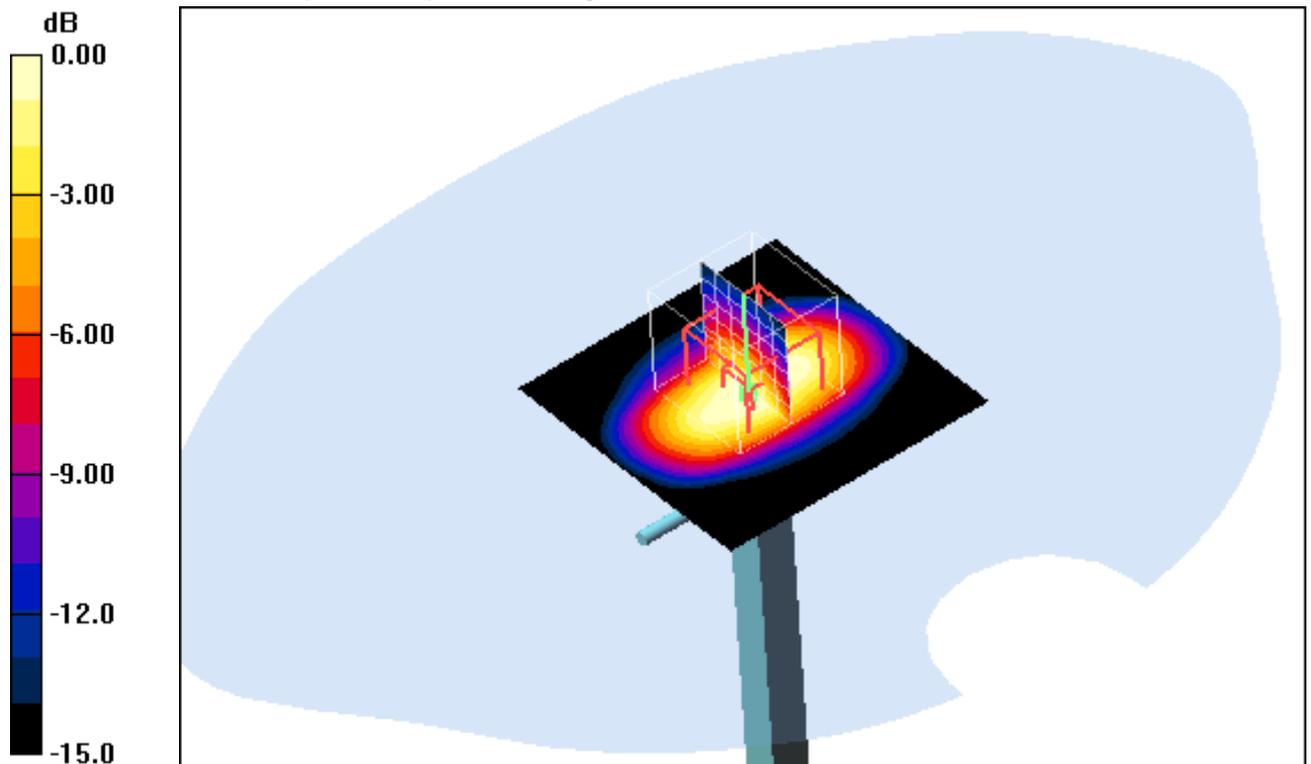
0 dB = 42.5mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.0°C

Date/Time: 23.07.2012 10:52:22

System Performance Check 2450 head 2012-07-23

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 710
Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2450 MHz; σ = 1.85 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY Configuration:
- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

System Performance Check/d=10mm, Pin=100 mW, dist=4.0mm (ET-Probe)/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 8.37 mW/g

System Performance Check/d=10mm, Pin=100 mW, dist=4.0mm (ET-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 59.984 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 10.458 mW/g
SAR(1 g) = 5.66 mW/g; SAR(10 g) = 2.64 mW/g
Maximum value of SAR (measured) = 6.29 mW/g
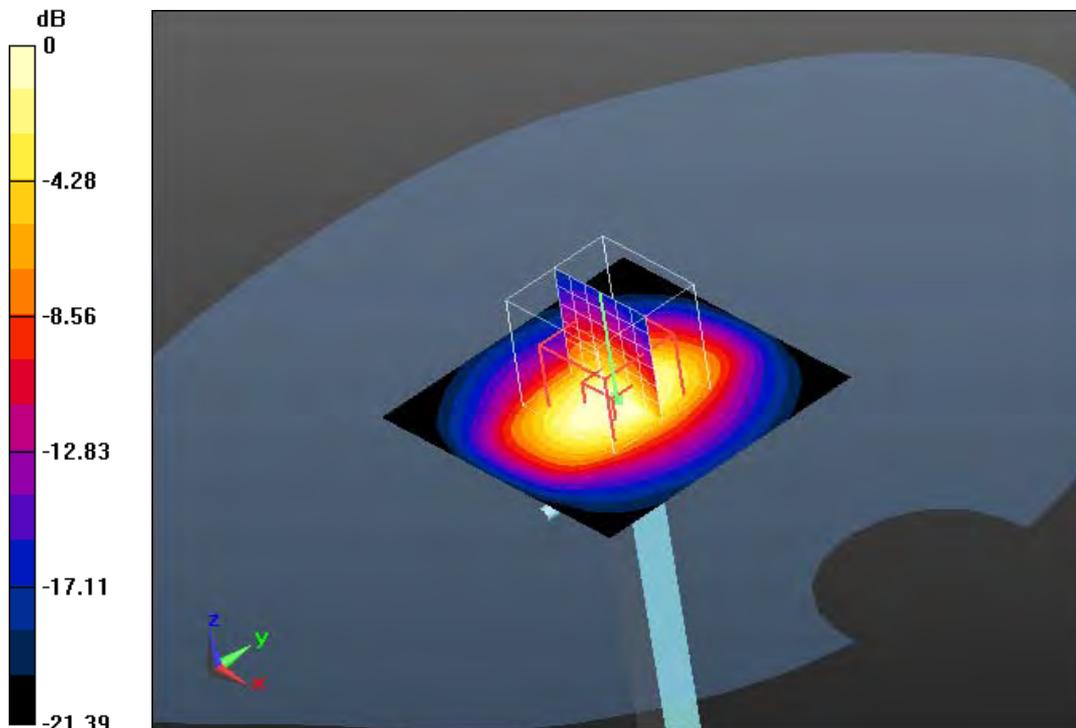
0 dB = 6.29 mW/g = 15.97 dB mW/g

Additional information:
ambient temperature: 22.0°C; liquid temperature: 21.5°C

Date/Time: 24.07.2012 18:28:45

System Performance Check 2450 body 2012-07-24
DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 710
Communication System: CW; Frequency: 2450 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2450 MHz; σ = 1.97 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

System Performance Check/d=10mm, Pin=100 mW, dist=4.0mm (ET-Probe)/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 7.97 mW/g

System Performance Check/d=10mm, Pin=100 mW, dist=4.0mm (ET-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.856 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 11.046 mW/g
SAR(1 g) = 5.47 mW/g; SAR(10 g) = 2.53 mW/g
Maximum value of SAR (measured) = 5.94 mW/g
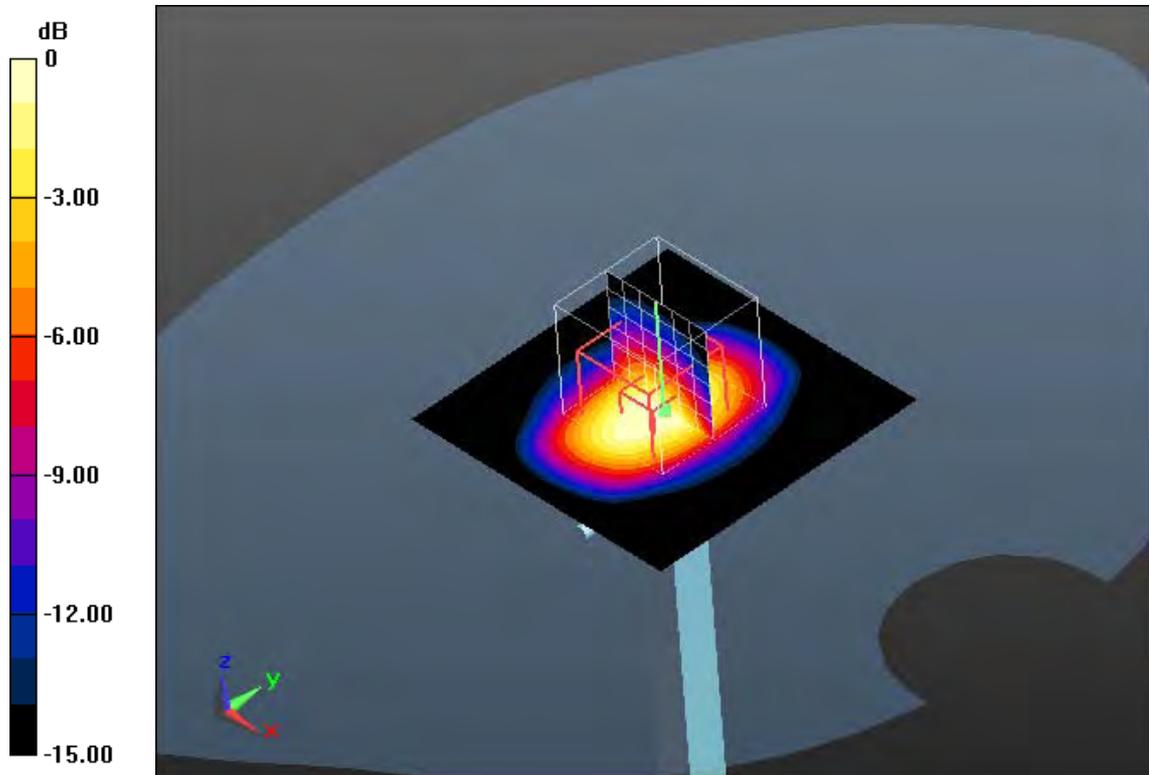
0 dB = 5.94 mW/g = 15.48 dB mW/g

Additional information:
ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 25.07.2012 11:56:40

System Performance Check 2450 body 2012-07-25

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 710
Communication System: CW; Frequency: 2450 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2450 MHz; σ = 1.97 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

System Performance Check/d=10mm, Pin=100 mW, dist=4.0mm (ET-Probe)/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 7.53 mW/g

System Performance Check/d=10mm, Pin=100 mW, dist=4.0mm (ET-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.357 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 11.501 mW/g
SAR(1 g) = 5.25 mW/g; SAR(10 g) = 2.46 mW/g
Maximum value of SAR (measured) = 5.73 mW/g
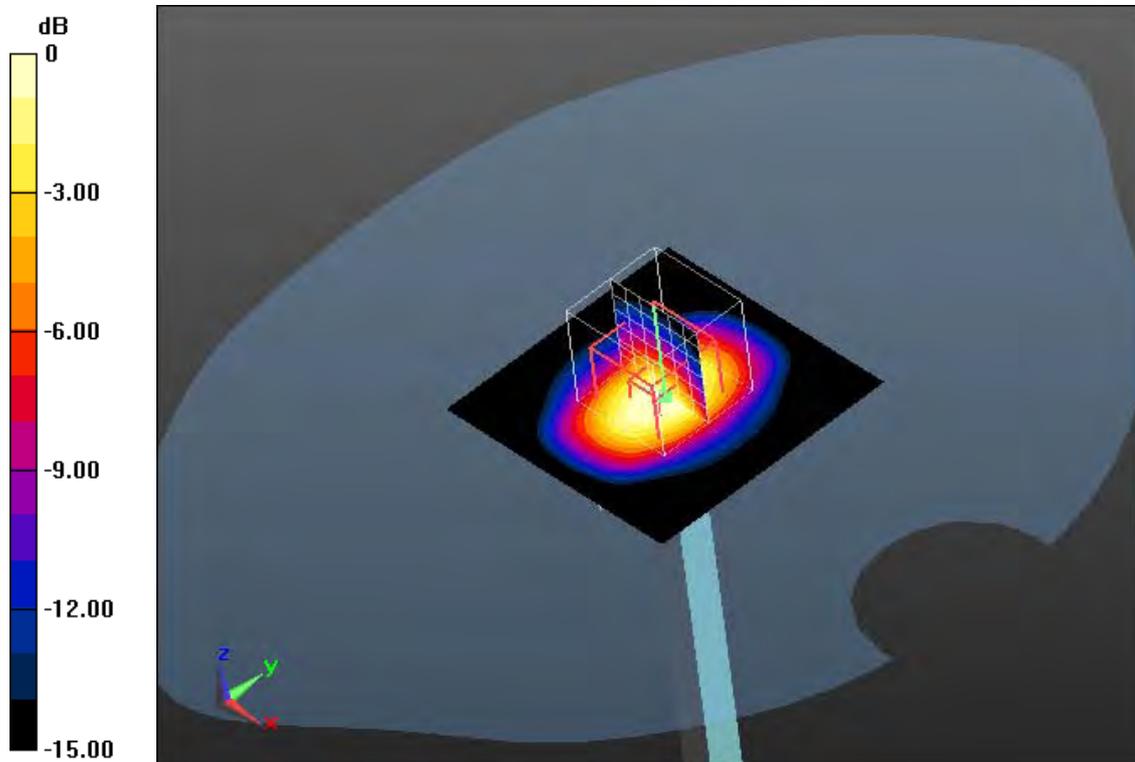
0 dB = 5.73 mW/g = 15.16 dB mW/g

Additional information:
ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 30.07.2012 14:17:45

SystemPerformanceCheck-D5GHz-head 2012-07-30.da4

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1055

Communication System: CW; Frequency: 5200 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 5200 MHz; σ = 4.52 mho/m; ε_r = 36.6; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3566; ConvF(4.78, 4.78, 4.78); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

SystemPerformanceCheck/d=10mm, Pin=100mW 5.2GHz/Zoom Scan (8x8x8) (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 46.123 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 30.082 mW/g

SAR(1 g) = 8.19 mW/g; SAR(10 g) = 2.31 mW/g

Maximum value of SAR (measured) = 16.9 mW/g
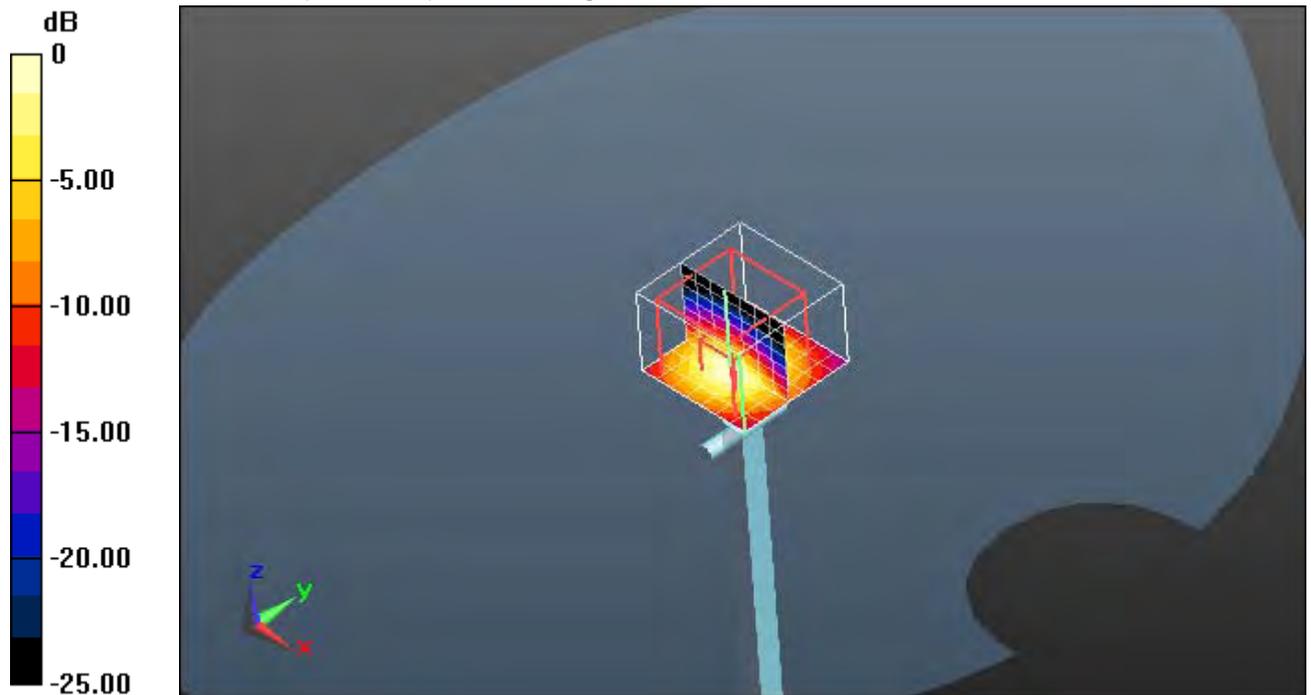
0 dB = 16.9 mW/g = 24.56 dB mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 30.07.2012 13:57:24

SystemPerformanceCheck-D5GHz-head 2012-07-30.da4

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1055

Communication System: CW; Frequency: 5500 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 5500 MHz; σ = 4.82 mho/m; ε_r = 36.1; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3566; ConvF(4.21, 4.21, 4.21); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

# SystemPerformanceCheck/d=10mm, Pin=100mW 5.5GHz/Zoom Scan (8x8x8) (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 45.190 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 33.410 mW/g

SAR(1 g) = 8.21 mW/g; SAR(10 g) = 2.28 mW/g

Maximum value of SAR (measured) = 17.2 mW/g
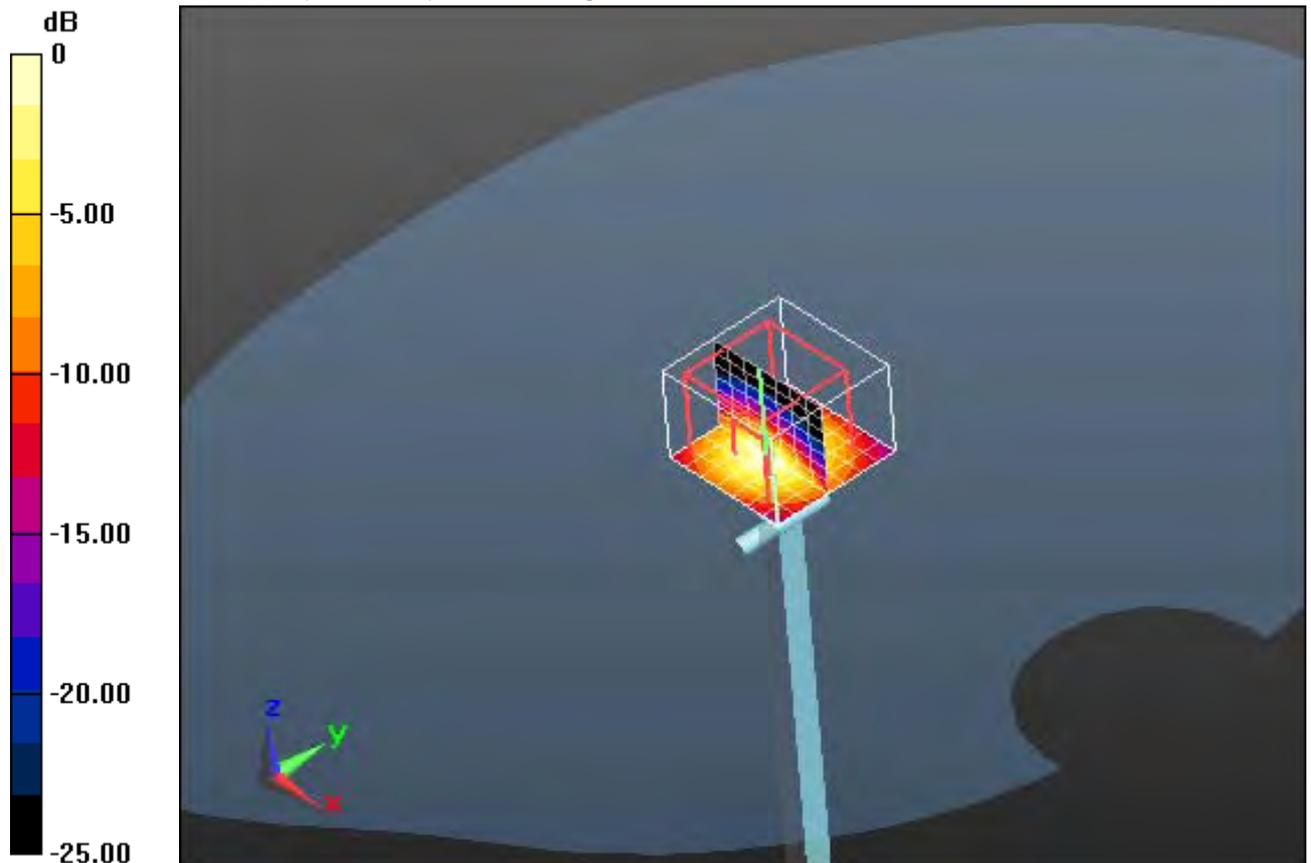
0 dB = 17.2 mW/g = 24.71 dB mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.7°C

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Date/Time: 30.07.2012 13:38:19

SystemPerformanceCheck-D5GHz-head 2012-07-30.da4

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1055
Communication System: CW; Frequency: 5800 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5800 MHz; σ = 5.12 mho/m; $ε_r$ = 35.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.16, 4.16, 4.16); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

SystemPerformanceCheck/d=10mm, Pin=100mW 5.8GHz/Zoom Scan (8x8x8) (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 41.718 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 30.655 mW/g
SAR(1 g) = 7.34 mW/g; SAR(10 g) = 2.05 mW/g
Maximum value of SAR (measured) = 15.4 mW/g
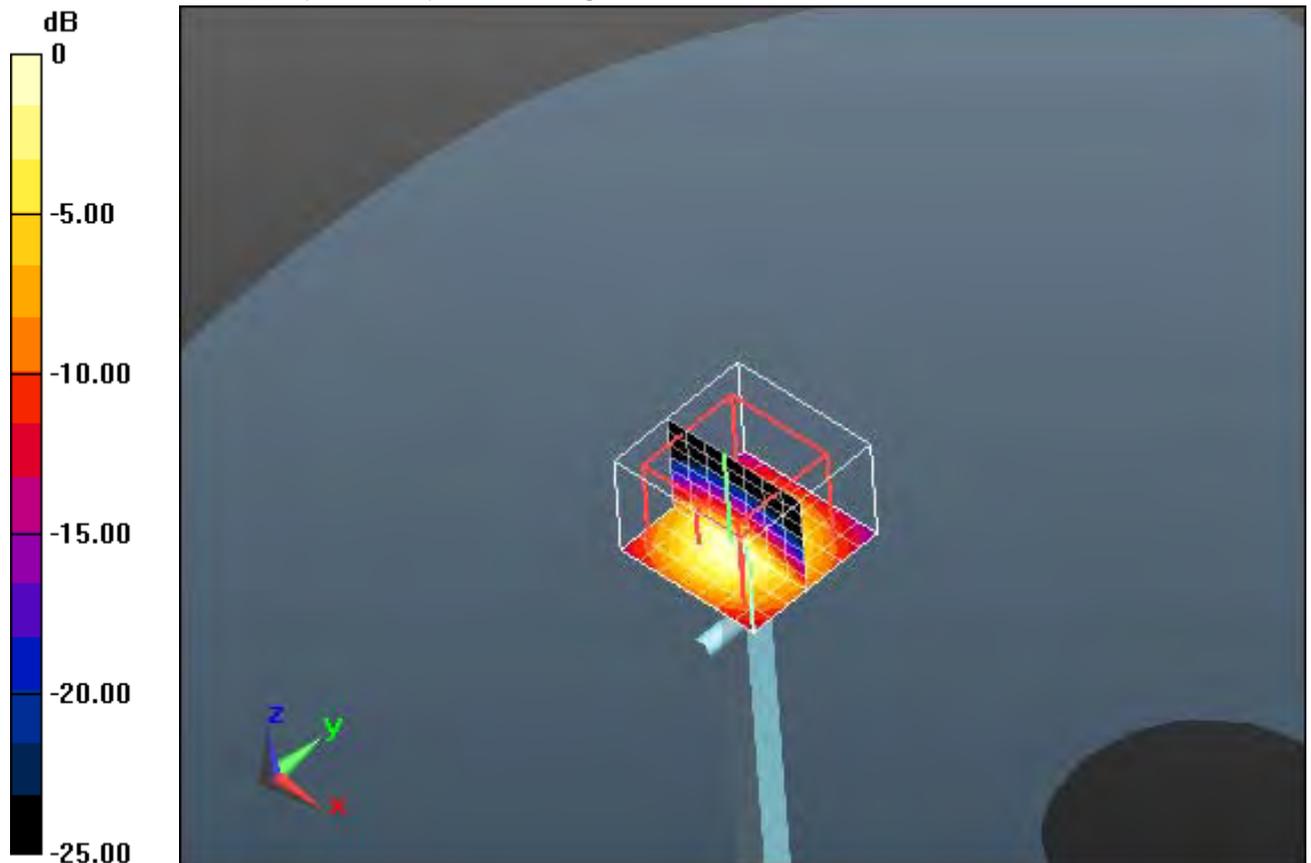
0 dB = 15.4 mW/g = 23.75 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 26.07.2012 13:01:58

SystemPerformanceCheck-D5GHz-body 2012-07-26.da4

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1055

Communication System: CW; Frequency: 5200 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 5200 MHz; σ = 5.34 mho/m; $ε_r$ = 48.02; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3566; ConvF(3.83, 3.83, 3.83); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/d=10mm, Pin=100mW 5.2GHz/Zoom Scan (8x8x8)

(8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 44.032 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 27.073 mW/g

SAR(1 g) = 7.67 mW/g; SAR(10 g) = 2.15 mW/g

Maximum value of SAR (measured) = 14.9 mW/g
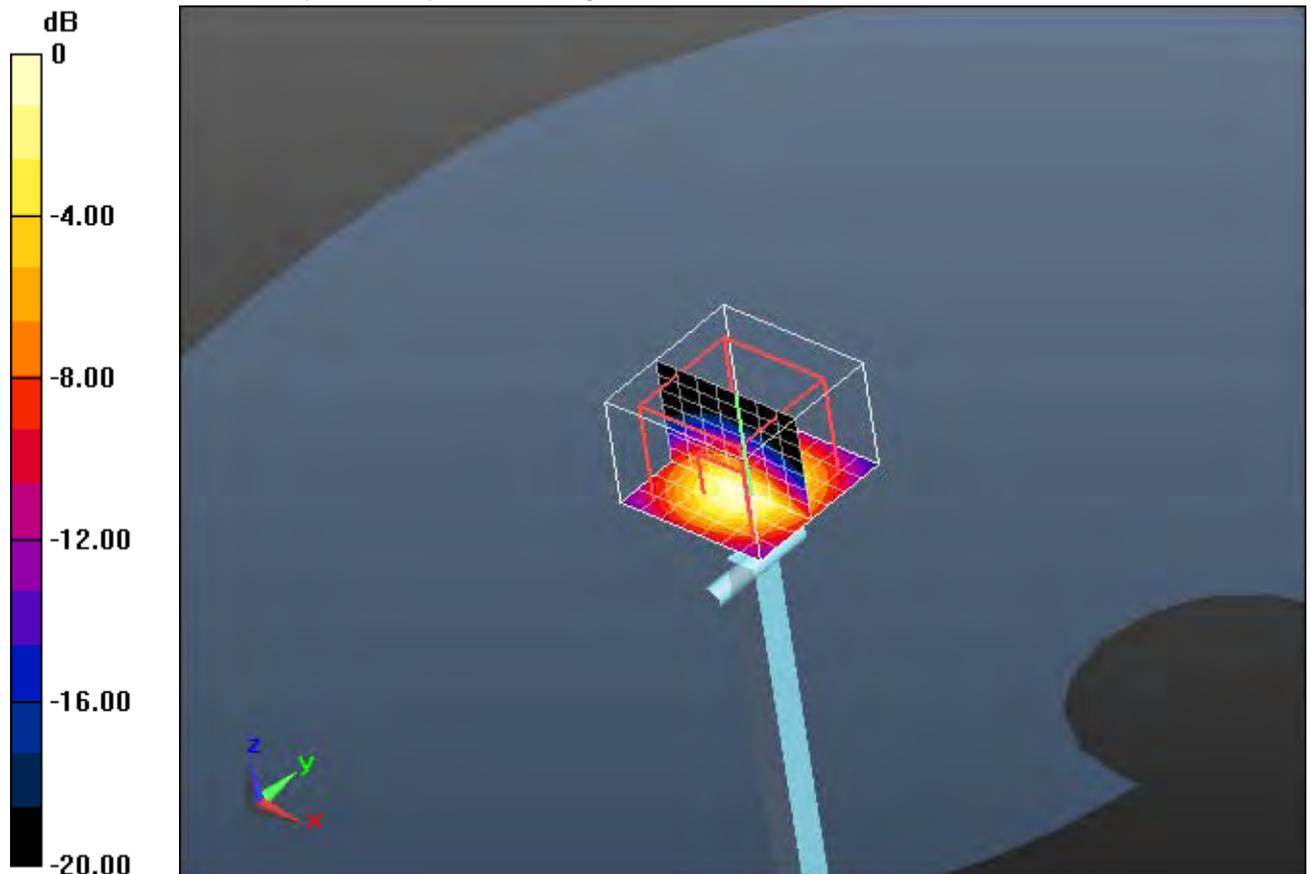
0 dB = 14.9 mW/g = 23.46 dB mW/g

Additional information:

ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 13:35:31

SystemPerformanceCheck-D5GHz-body 2012-07-26.da4

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1055
Communication System: CW; Frequency: 5500 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5500 MHz; σ = 5.71 mho/m; $ε_r$ = 47.27; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(3.41, 3.41, 3.41); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/d=10mm, Pin=100mW 5.5GHz/Zoom Scan (8x8x8)

(8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 44.518 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 31.014 mW/g
SAR(1 g) = 8.43 mW/g; SAR(10 g) = 2.34 mW/g
Maximum value of SAR (measured) = 16.1 mW/g
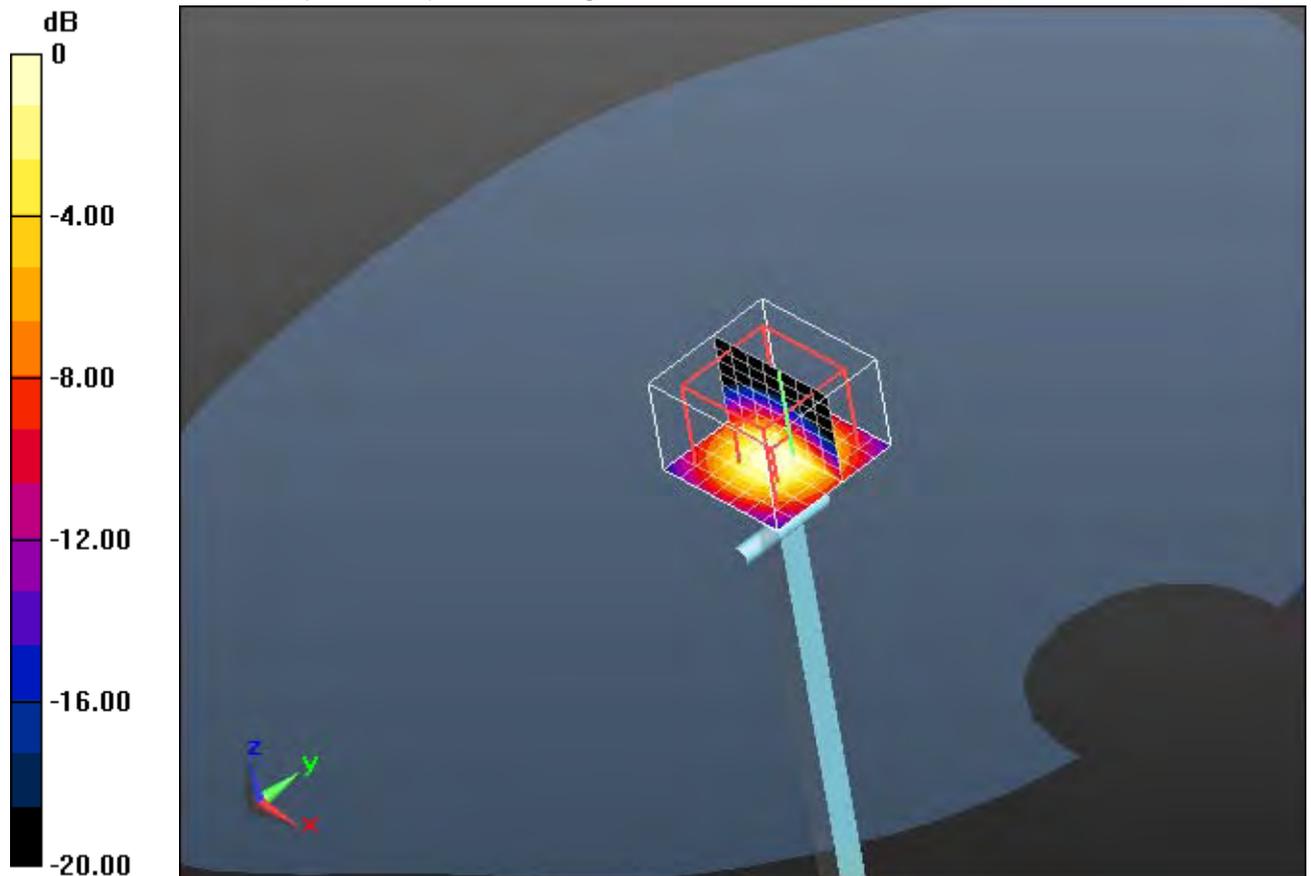
0 dB = 16.1 mW/g = 24.14 dB mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 13:57:03

SystemPerformanceCheck-D5GHz-body 2012-07-26.da4

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1055

Communication System: CW; Frequency: 5800 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 5800 MHz; σ = 6.1 mho/m; $ε_r$ = 46.69; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3566; ConvF(3.56, 3.56, 3.56); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/d=10mm, Pin=100mW 5.8GHz/Zoom Scan (8x8x8)

(8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 39.366 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 33.087 mW/g

SAR(1 g) = 7.3 mW/g; SAR(10 g) = 2.04 mW/g

Maximum value of SAR (measured) = 14.6 mW/g
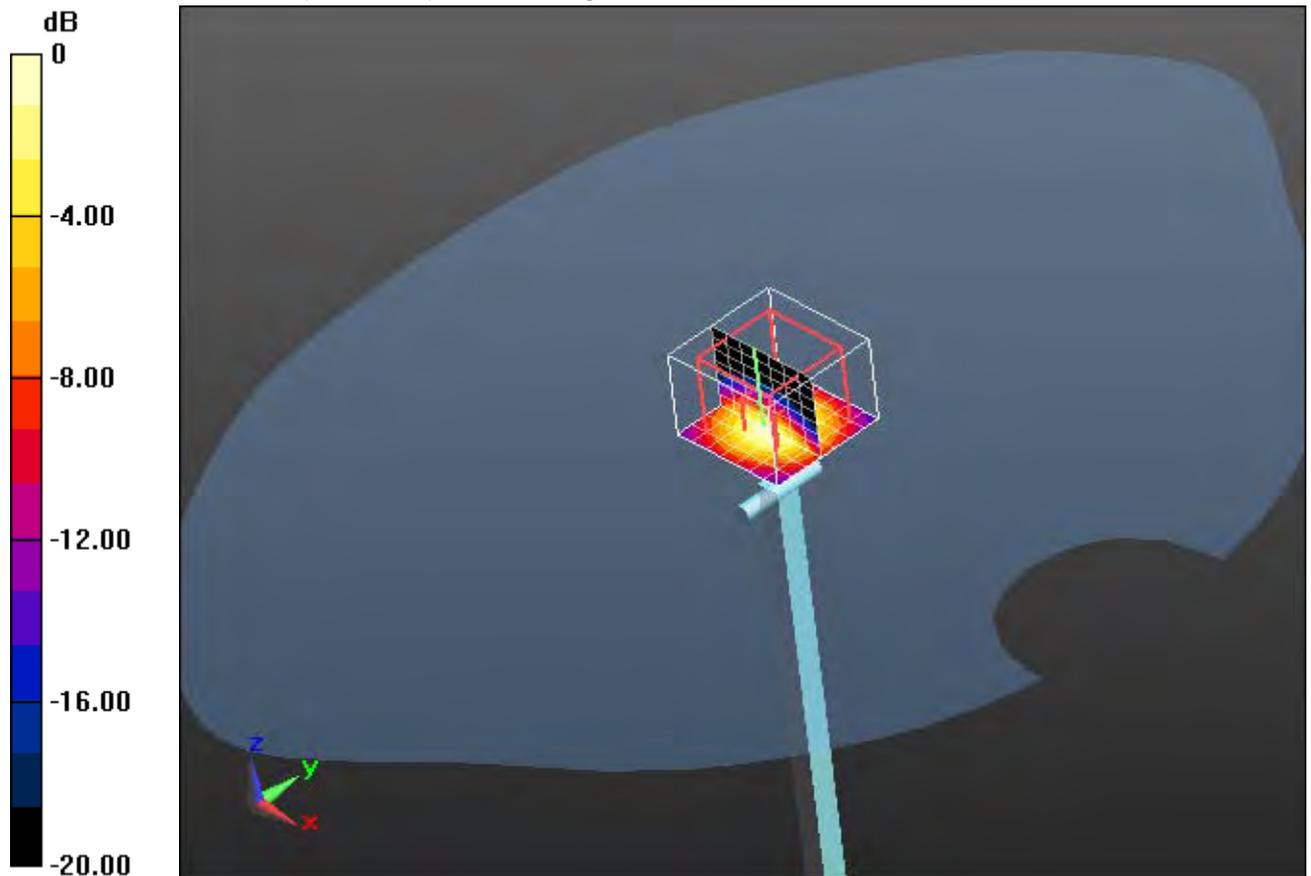
0 dB = 14.6 mW/g = 23.29 dB mW/g

Additional information:

ambient temperature: 23.8°C; liquid temperature: 23.4°C

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Annex B: DASY4 measurement results

Annex B.1: GSM 850MHz head

Date/Time: 16.07.2012 14:41:54Date/Time: 16.07.2012 14:50:41

IEEE1528-LeftHandSide-GSM850

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: HSL900 Medium parameters used: f = 824.2 MHz; σ = 0.89 mho/m; ε_r = 41.4; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.149 mW/g

## Touch position - Low/Zoom Scan (7x7x7) (7x12x7)/Cube 0: Measurement grid:

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

Reference Value = 13.3 V/m; Power Drift = 0.065 dB

Peak SAR (extrapolated) = 0.194 W/kg

SAR(1 g) = 0.138 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.145 mW/g
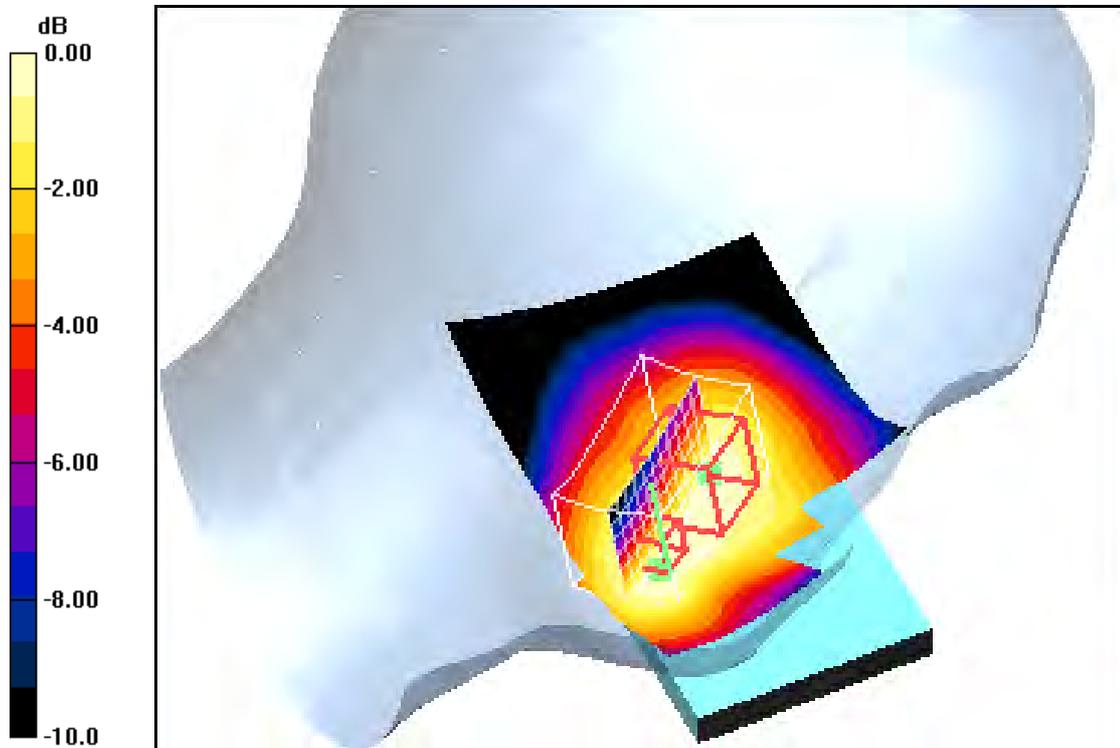
0 dB = 0.145mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 15:13:41Date/Time: 16.07.2012 15:46:54

IEEE1528-LeftHandSide-GSM850

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8
Medium: HSL900 Medium parameters used: f = 836.6 MHz; σ = 0.9 mho/m; ε_r = 41.3; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.248 mW/g

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

dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.1 V/m; Power Drift = -0.175 dB
Peak SAR (extrapolated) = 0.304 W/kg
SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.178 mW/g
Maximum value of SAR (measured) = 0.245 mW/g
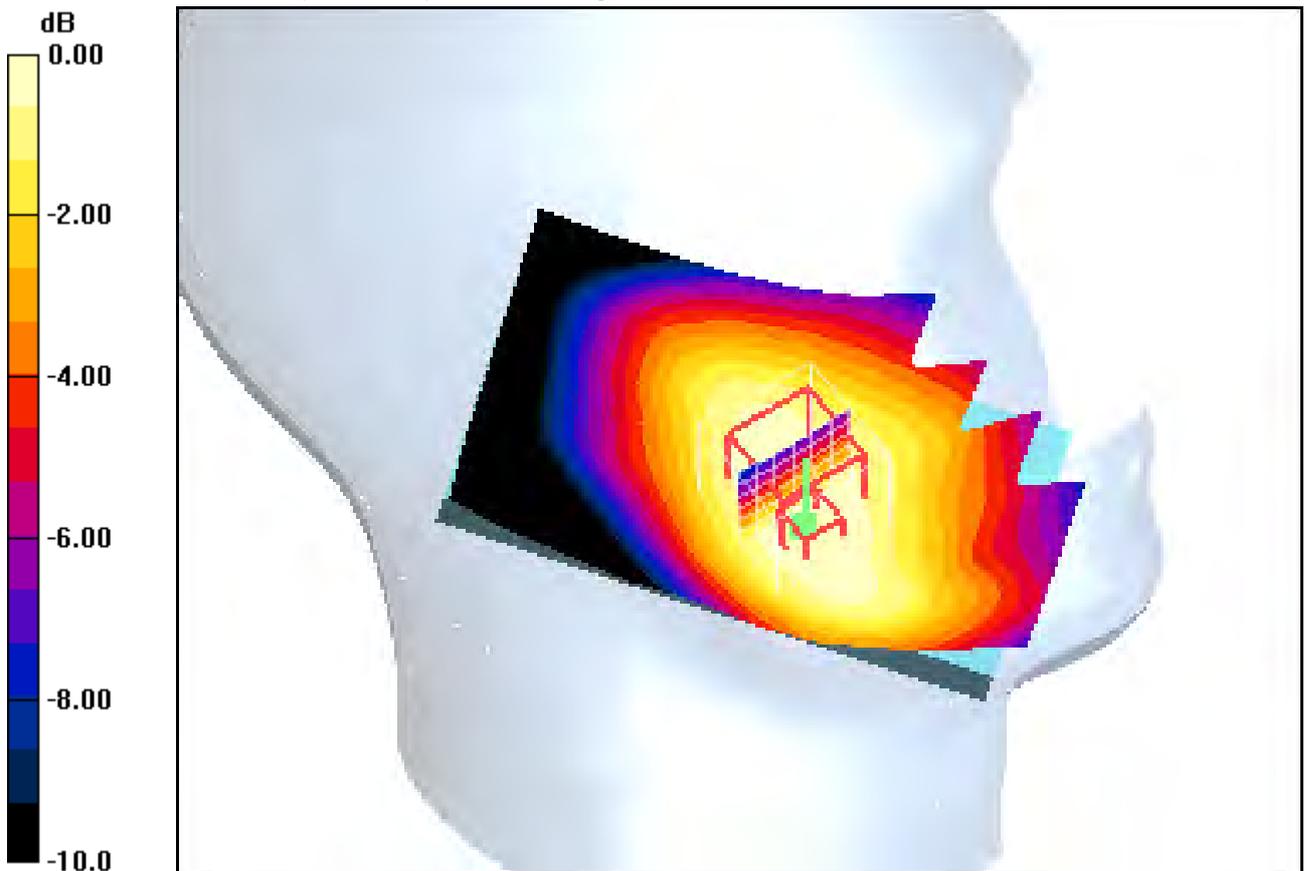
0 dB = 0.245mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 15:59:08Date/Time: 16.07.2012 16:07:45

IEEE1528-LeftHandSide-GSM850
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8
Medium: HSL900 Medium parameters used: f = 848.8 MHz; σ = 0.91 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.317 mW/g

## Touch position - High/Zoom Scan (7x7x7) (7x12x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.3 V/m; Power Drift = -0.097 dB
Peak SAR (extrapolated) = 0.398 W/kg
SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.228 mW/g
Maximum value of SAR (measured) = 0.312 mW/g
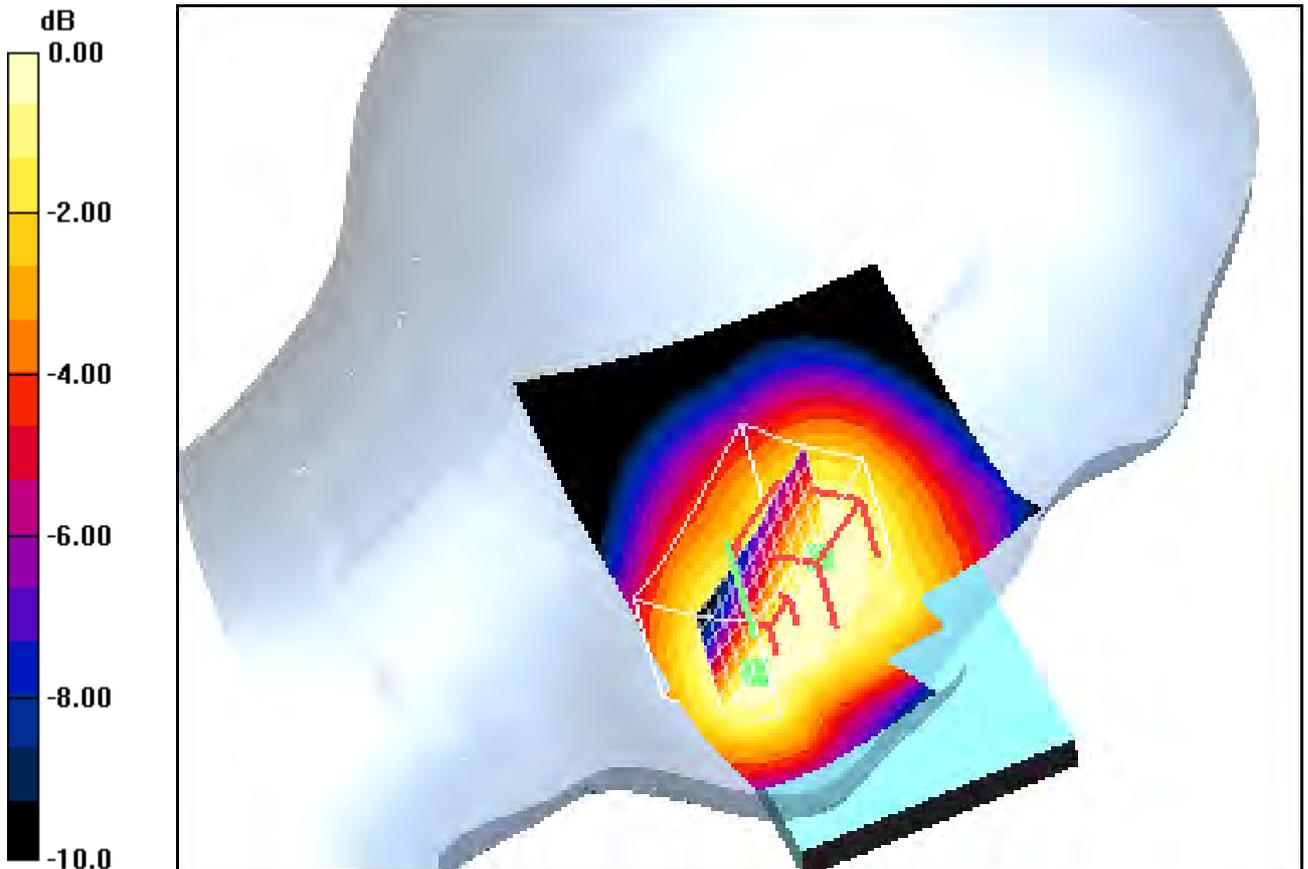
0 dB = 0.312mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 16:29:53Date/Time: 16.07.2012 16:38:29

IEEE1528-LeftHandSide-GSM850

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: HSL900 Medium parameters used: f = 824.2 MHz; σ = 0.89 mho/m; $ε_r$ = 41.4; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.073 mW/g

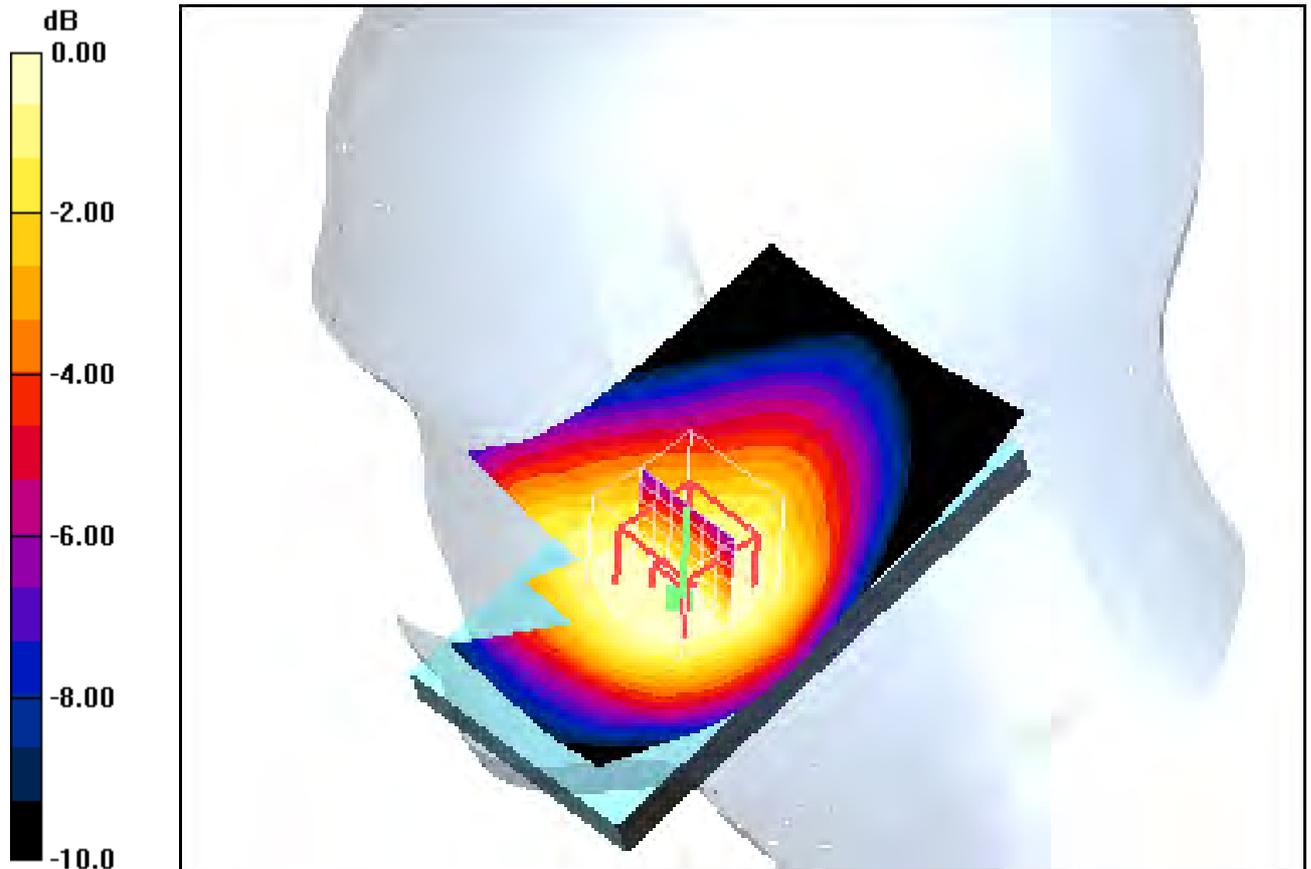### Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.20 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 0.079 W/kg

SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.053 mW/g

Maximum value of SAR (measured) = 0.070 mW/g
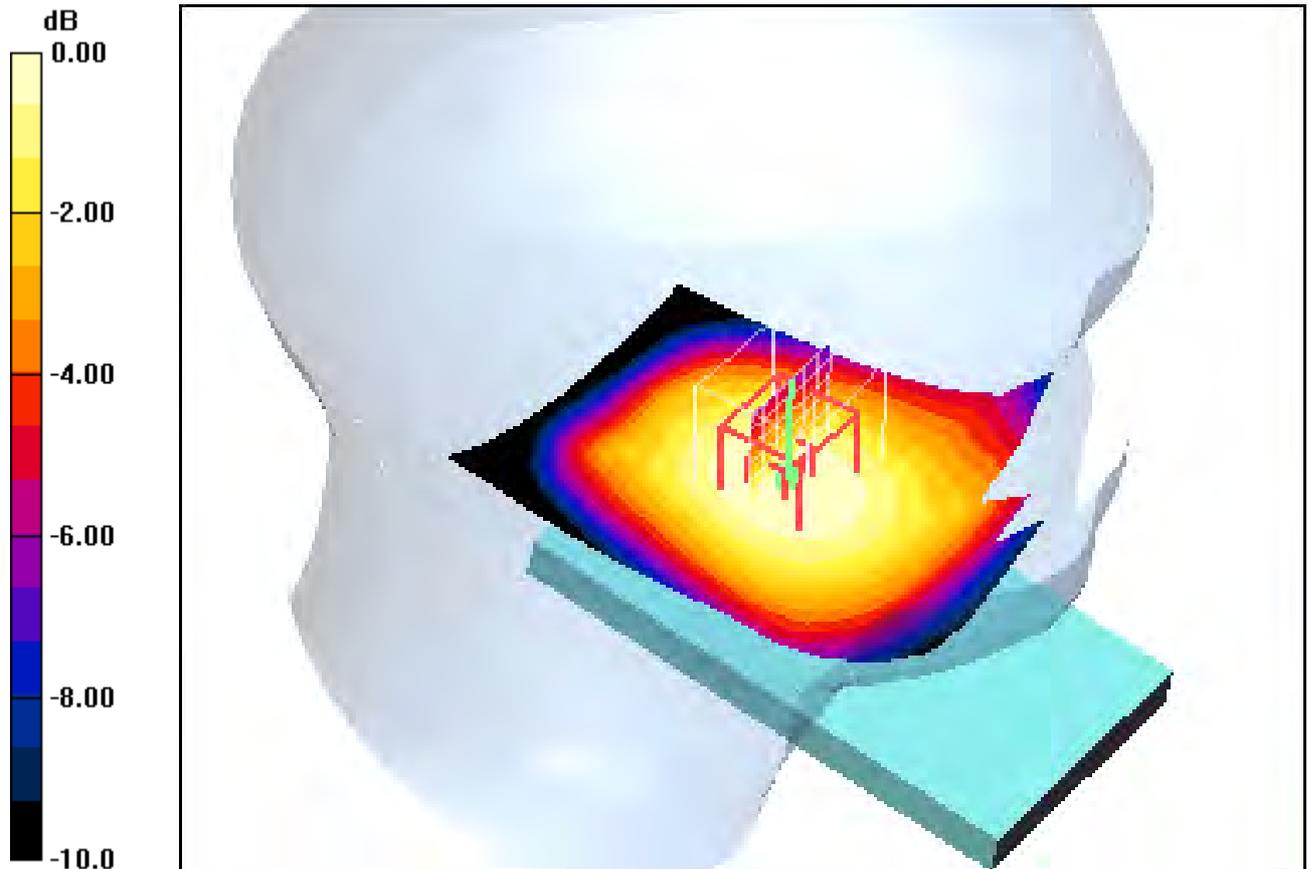
0 dB = 0.070mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 16:51:43Date/Time: 16.07.2012 17:00:01

IEEE1528-LeftHandSide-GSM850
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8
Medium: HSL900 Medium parameters used: f = 836.6 MHz; σ = 0.9 mho/m; $ε_r$ = 41.3; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.127 mW/g

## Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.2 V/m; Power Drift = -0.044 dB
Peak SAR (extrapolated) = 0.143 W/kg
SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.094 mW/g
Maximum value of SAR (measured) = 0.126 mW/g
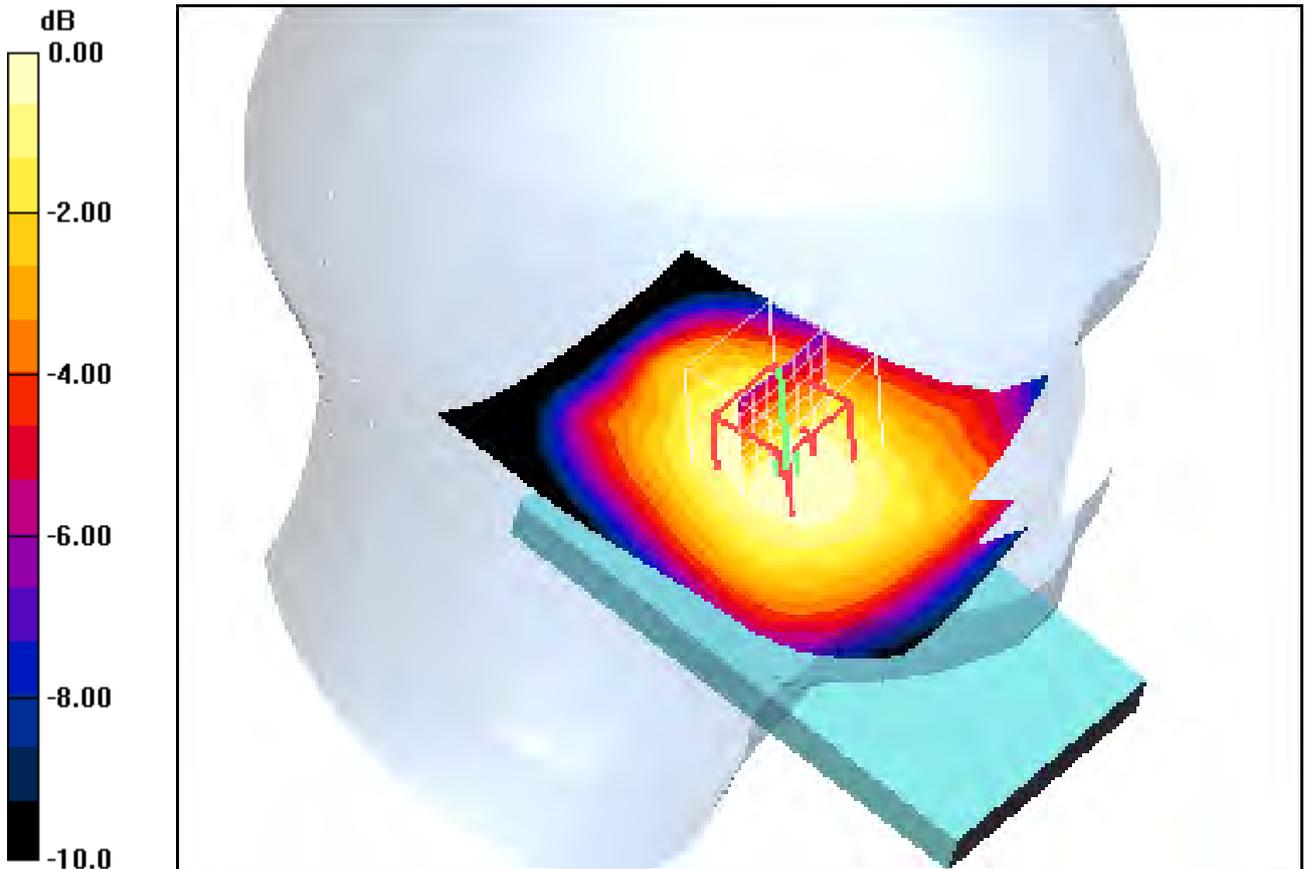
0 dB = 0.126mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 17:12:44Date/Time: 16.07.2012 17:19:45

IEEE1528-LeftHandSide-GSM850

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: HSL900 Medium parameters used: f = 848.8 MHz; σ = 0.91 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.161 mW/g

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

Reference Value = 13.7 V/m; Power Drift = -0.026 dB

Peak SAR (extrapolated) = 0.178 W/kg

SAR(1 g) = 0.152 mW/g; SAR(10 g) = 0.118 mW/g

Maximum value of SAR (measured) = 0.160 mW/g
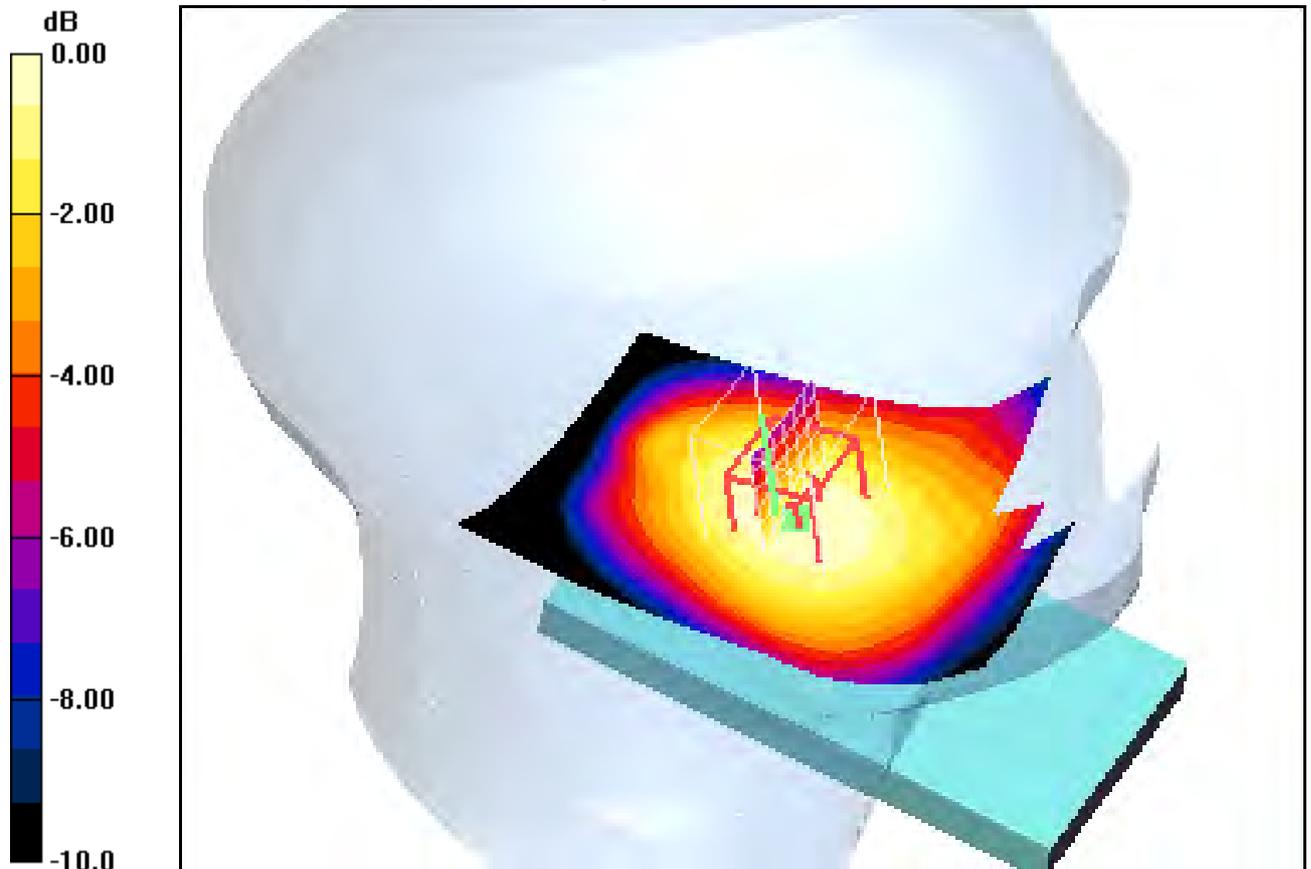
0 dB = 0.160mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 17.07.2012 08:42:16Date/Time: 17.07.2012 09:00:26

IEEE1528-RightHandSide-GSM850
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8
Medium: HSL900 Medium parameters used: f = 824.2 MHz; σ = 0.89 mho/m; $ε_r$ = 41.4; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.158 mW/g

## Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.3 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 0.161 W/kg
SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.115 mW/g
Maximum value of SAR (measured) = 0.151 mW/g

0 dB = 0.151mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.7°C

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IEEE1528-RightHandSide-GSM850

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8
Medium: HSL900 Medium parameters used: f = 836.6 MHz; σ = 0.9 mho/m; ε_r = 41.3; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.293 mW/g

## Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.5 V/m; Power Drift = -0.074 dB
Peak SAR (extrapolated) = 0.321 W/kg
SAR(1 g) = 0.274 mW/g; SAR(10 g) = 0.216 mW/g
Maximum value of SAR (measured) = 0.287 mW/g
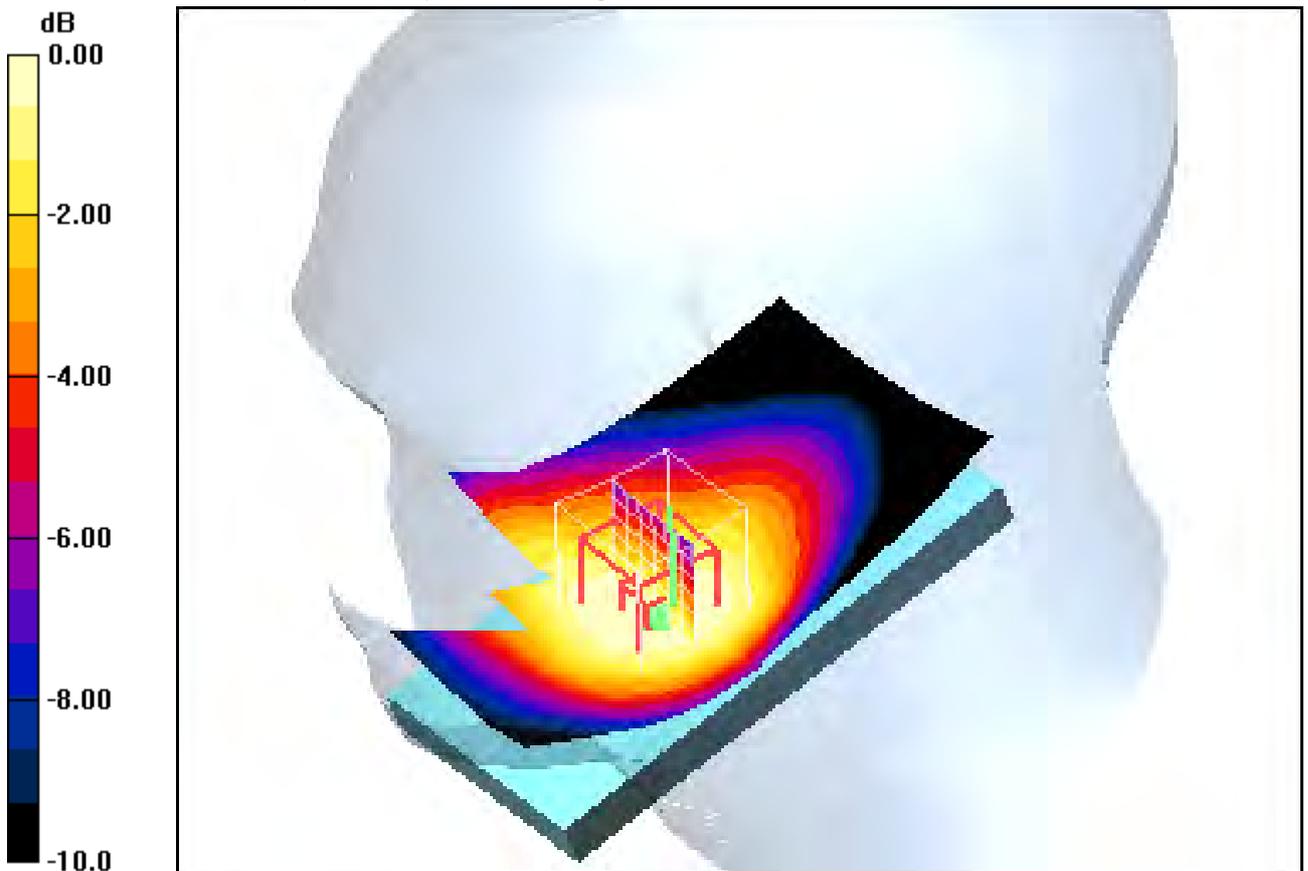
0 dB = 0.287mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.7°C

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Date/Time: 17.07.2012 09:36:34Date/Time: 17.07.2012 09:43:04

IEEE1528-RightHandSide-GSM850

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8
Medium: HSL900 Medium parameters used: f = 848.8 MHz; σ = 0.91 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.371 mW/g

## Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.7 V/m; Power Drift = 0.179 dB
Peak SAR (extrapolated) = 0.425 W/kg
SAR(1 g) = 0.353 mW/g; SAR(10 g) = 0.277 mW/g
Maximum value of SAR (measured) = 0.366 mW/g
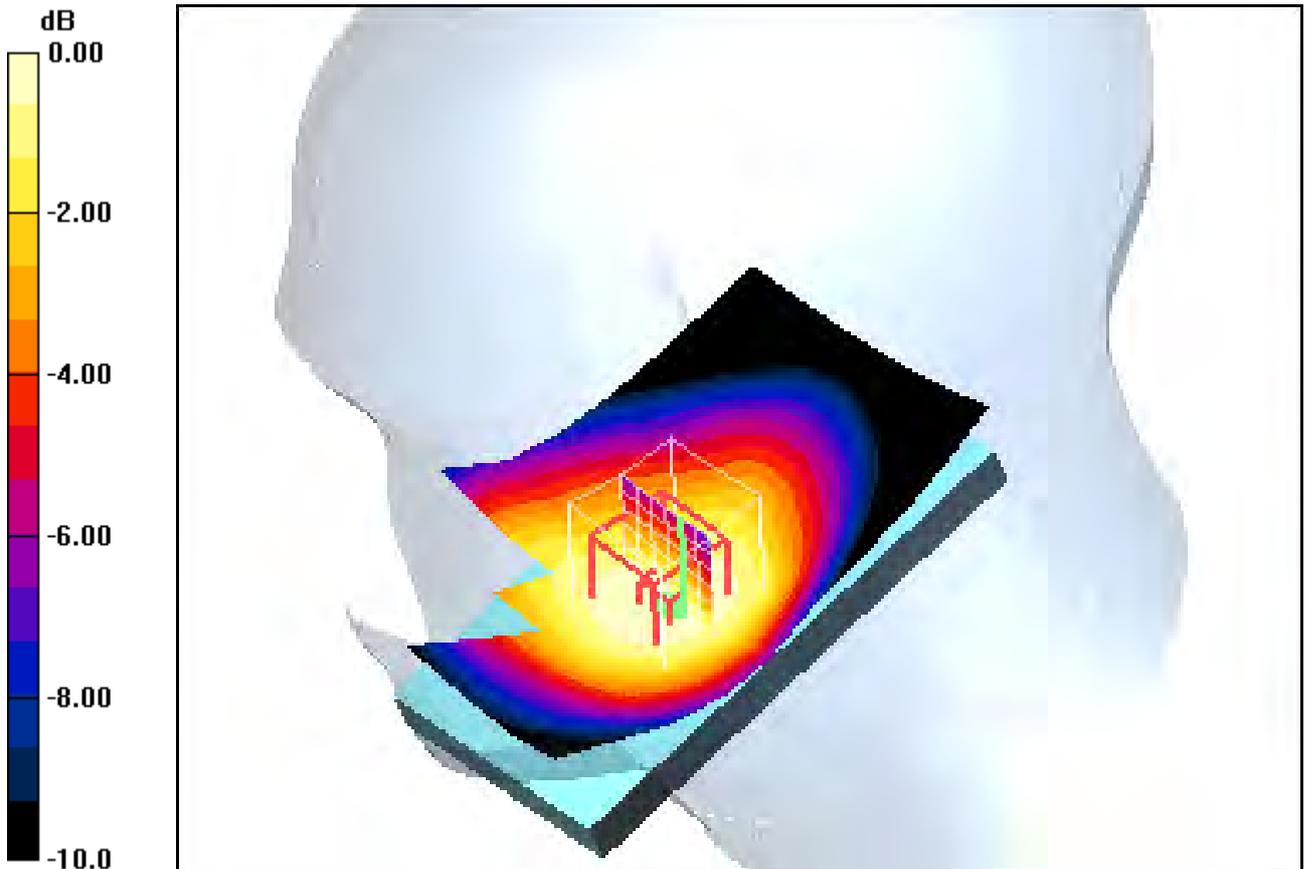
0 dB = 0.366mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.7°C

Date/Time: 17.07.2012 09:57:22Date/Time: 17.07.2012 10:04:51

IEEE1528-RightHandSide-GSM850
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8
Medium: HSL900 Medium parameters used: f = 824.2 MHz; σ = 0.89 mho/m; $ε_r$ = 41.4; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.065 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,
dy=5mm, dz=5mm
Reference Value = 8.65 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.070 W/kg
SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.048 mW/g
Maximum value of SAR (measured) = 0.063 mW/g
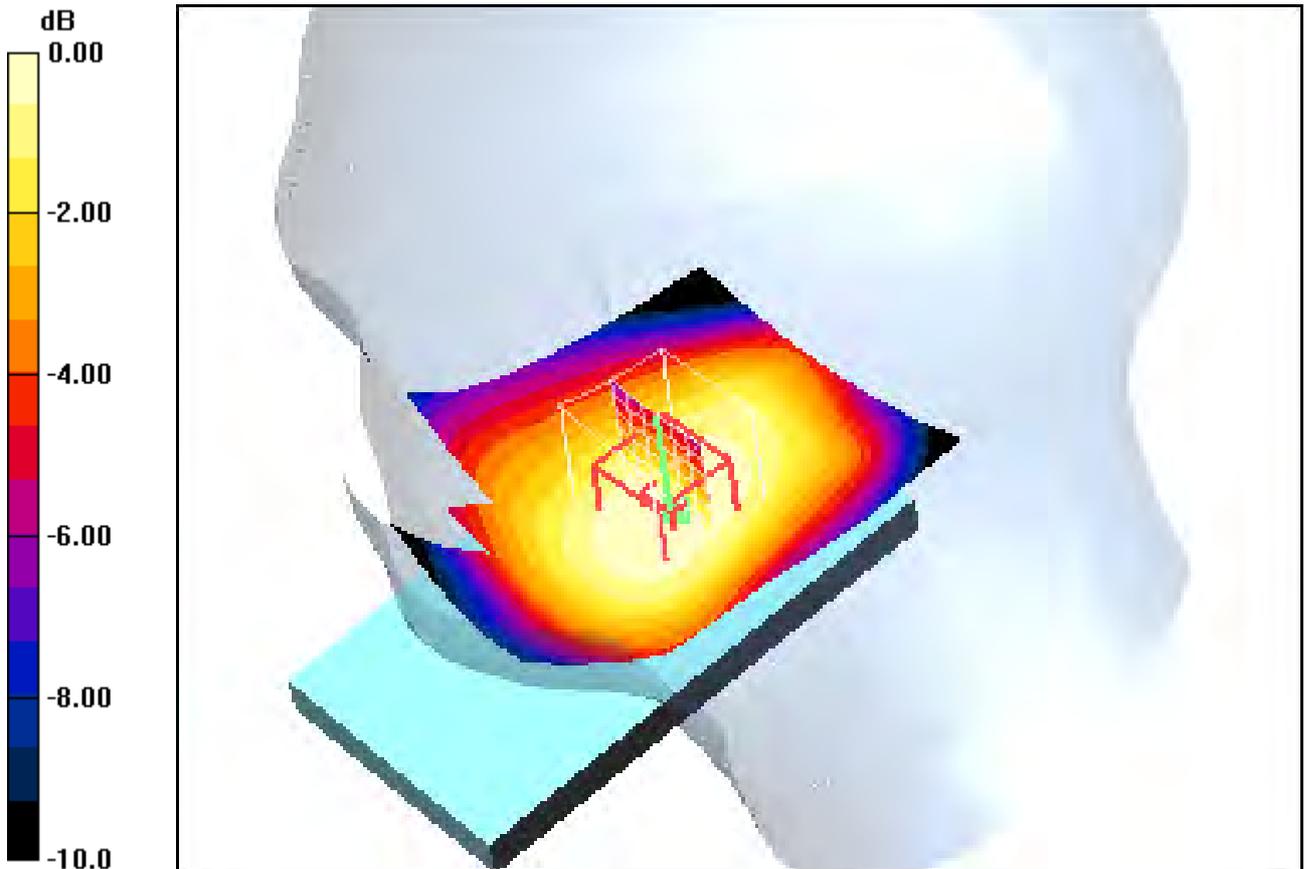
0 dB = 0.063mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.7°C

Date/Time: 17.07.2012 10:18:37Date/Time: 17.07.2012 10:26:47

IEEE1528-RightHandSide-GSM850
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8
Medium: HSL900 Medium parameters used: f = 836.6 MHz; σ = 0.9 mho/m; ε_r = 41.3; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.123 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.1 V/m; Power Drift = 0.021 dB
Peak SAR (extrapolated) = 0.139 W/kg
SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.093 mW/g
Maximum value of SAR (measured) = 0.124 mW/g
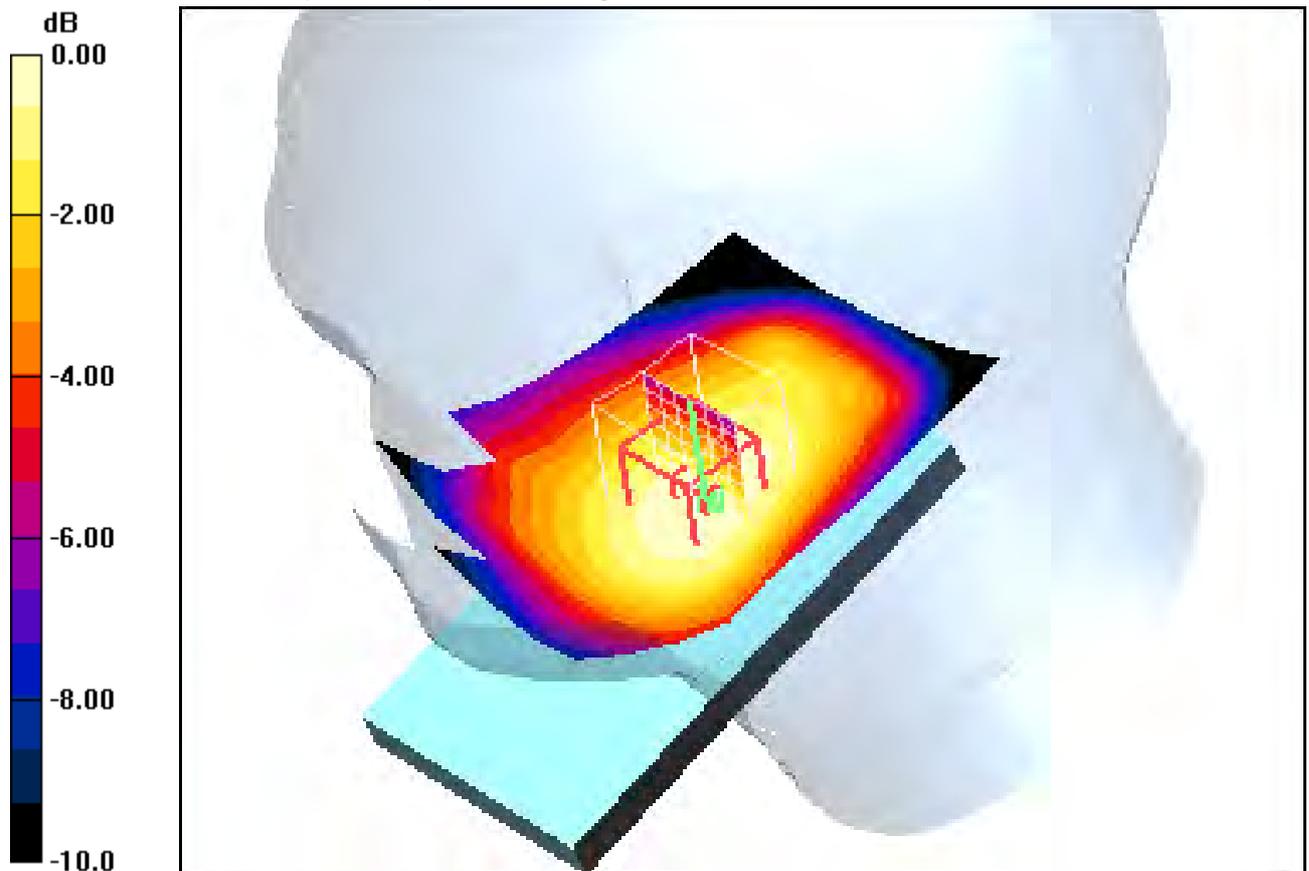
0 dB = 0.124mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.7°C

Date/Time: 17.07.2012 10:39:44Date/Time: 17.07.2012 10:47:00

IEEE1528-RightHandSide-GSM850
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8
Medium: HSL900 Medium parameters used: f = 848.8 MHz; σ = 0.91 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.165 mW/g

Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,
dy=5mm, dz=5mm
Reference Value = 13.9 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.187 W/kg
SAR(1 g) = 0.157 mW/g; SAR(10 g) = 0.124 mW/g
Maximum value of SAR (measured) = 0.165 mW/g
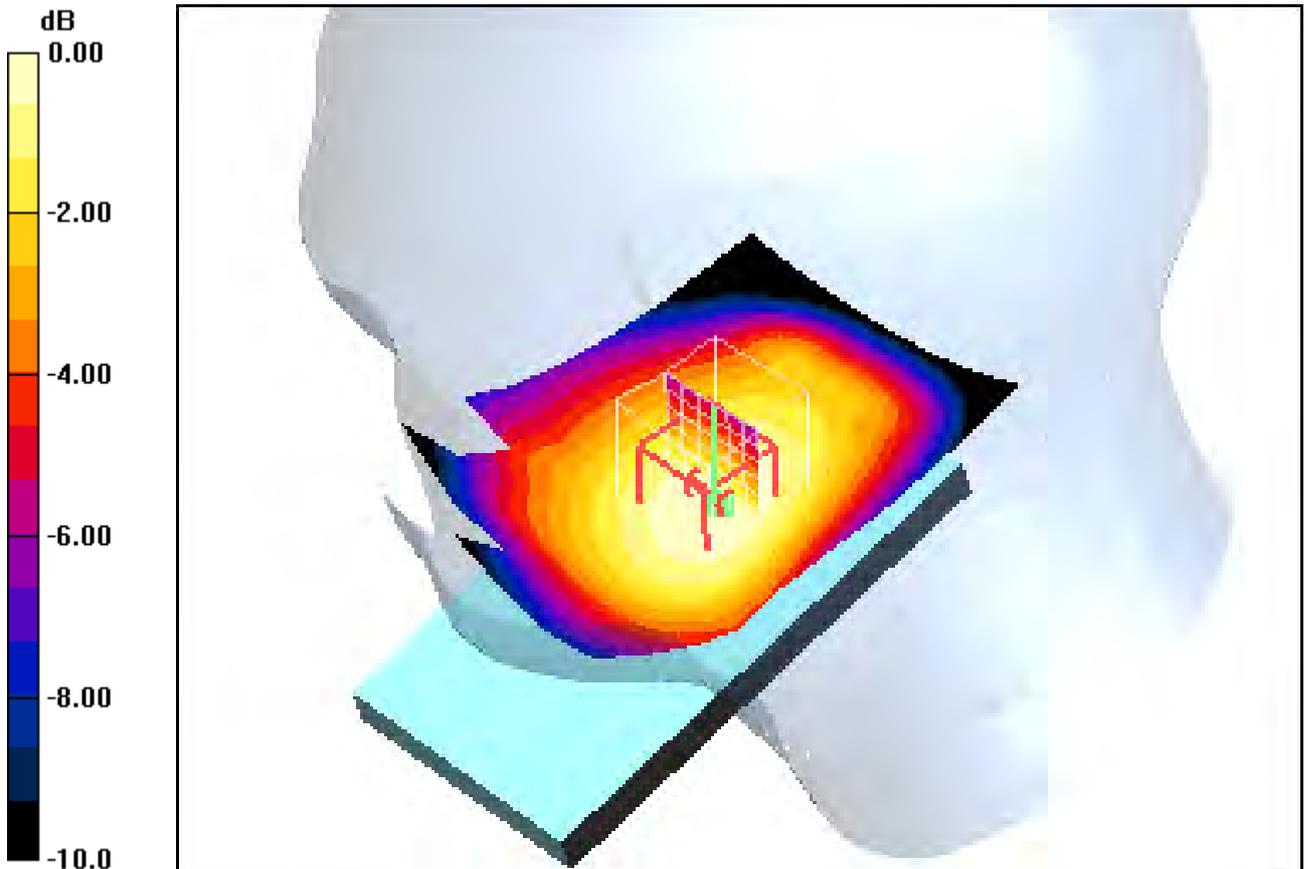
0 dB = 0.165mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.7°C

Annex B.2: GSM 850MHz body hotspot

Date/Time: 19.07.2012 08:37:25Date/Time: 19.07.2012 08:46:30

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 850 GPRS 4TS; Frequency: 824.2 MHz; Duty Cycle: 1:2
Medium: M900 Medium parameters used: f = 824.2 MHz; σ = 0.97 mho/m; $ε_r$ = 55; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.235 mW/g

Front position - Low/Zoom Scan (7x7x7) (10x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.7 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.353 W/kg
SAR(1 g) = 0.216 mW/g; SAR(10 g) = 0.148 mW/g
Maximum value of SAR (measured) = 0.233 mW/g
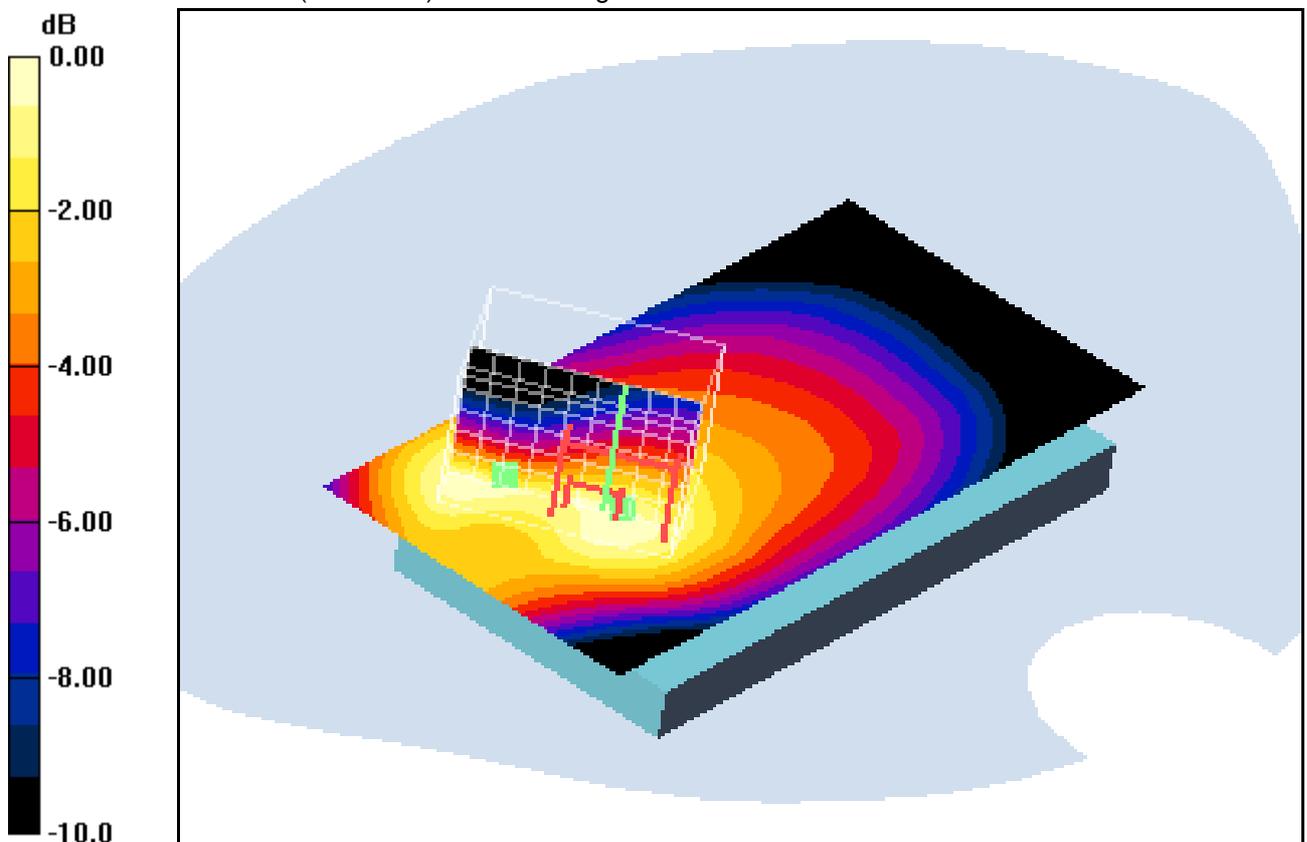
0 dB = 0.233mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 22.9°C; liquid temperature: 22.4°C

Date/Time: 19.07.2012 09:05:58Date/Time: 19.07.2012 09:14:01

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 850 GPRS 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2
Medium: M900 Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; $ε_r$ = 54.8; ρ = 1000 kg/m^3
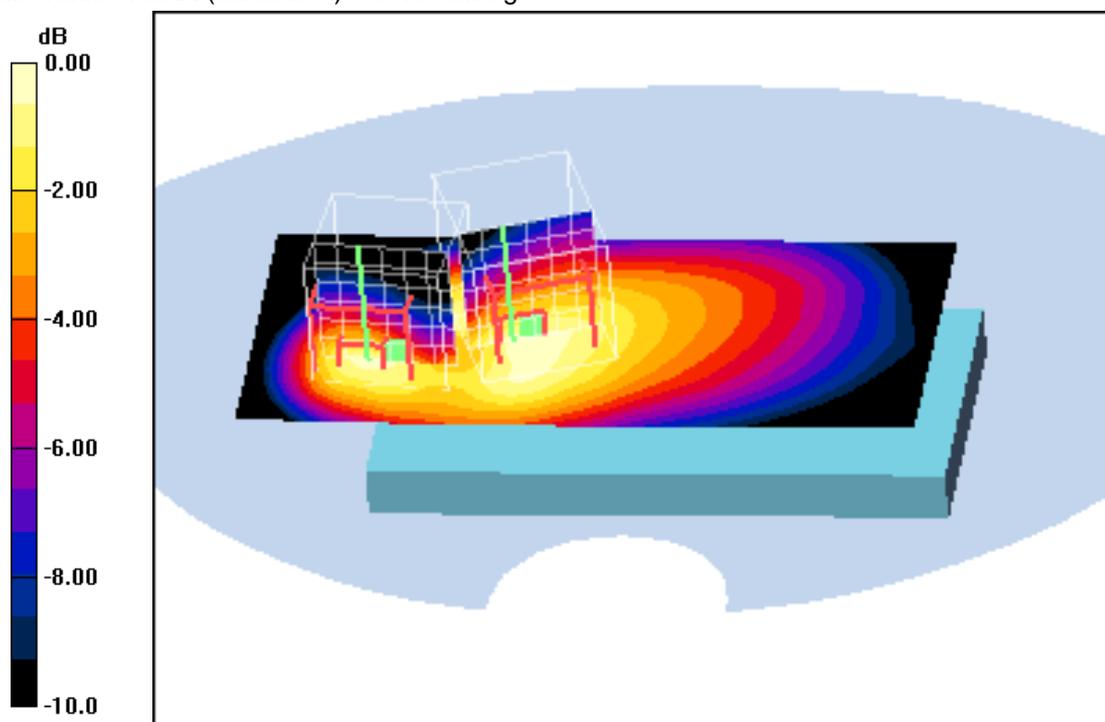Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.382 mW/g

Front position - Middle/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.8 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.567 W/kg
SAR(1 g) = 0.363 mW/g; SAR(10 g) = 0.251 mW/g
Maximum value of SAR (measured) = 0.389 mW/g
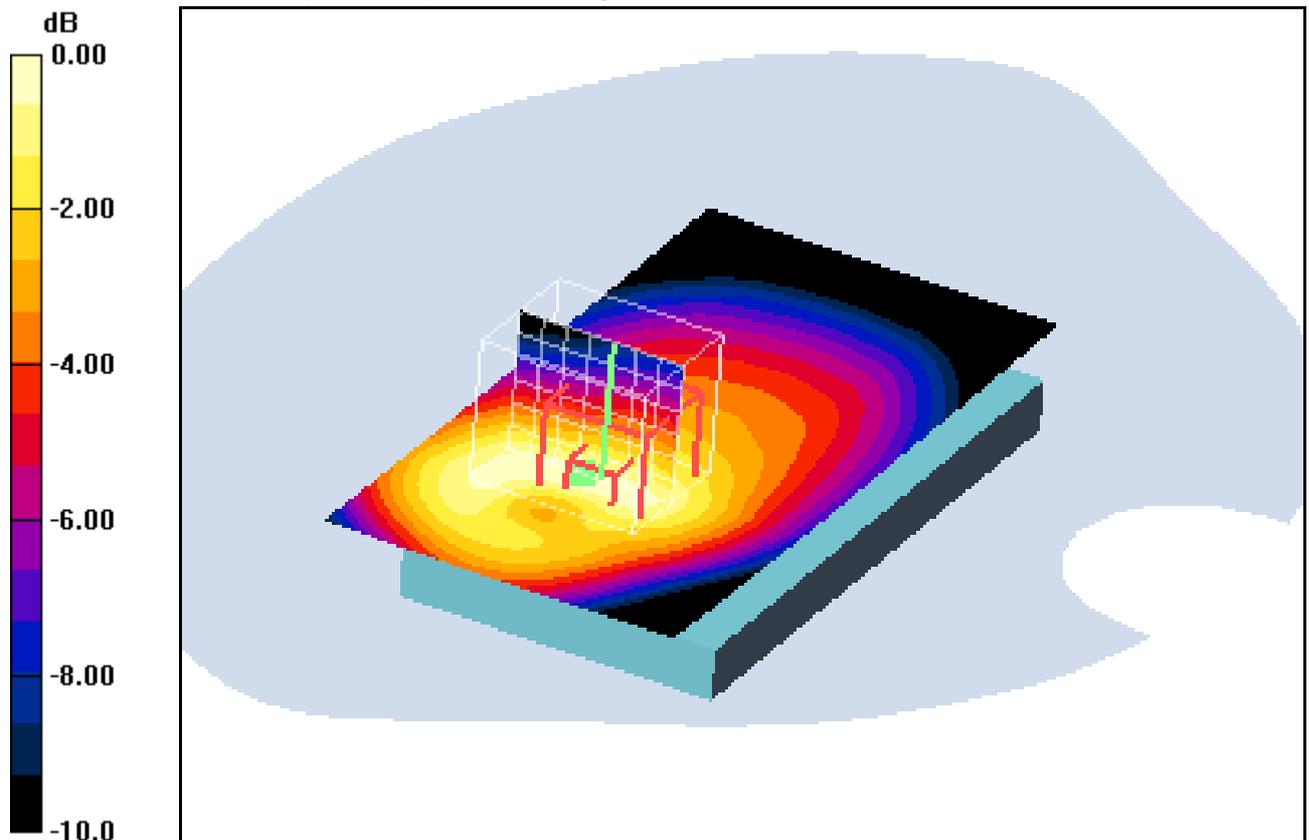
0 dB = 0.389mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 22.9°C; liquid temperature: 22.4°C

Date/Time: 19.07.2012 09:28:47Date/Time: 19.07.2012 09:37:21

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: PCS 850 GPRS 4TS; Frequency: 848.8 MHz; Duty Cycle: 1:2
Medium: M900 Medium parameters used: f = 848.8 MHz; σ = 1 mho/m; ε_r = 54.7; ρ = 1000 kg/m^3
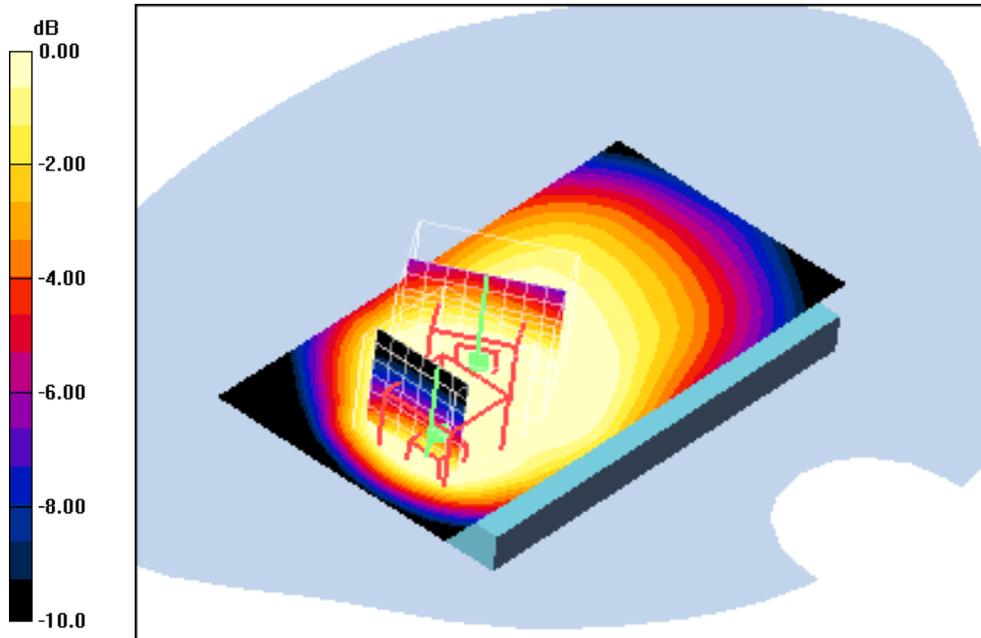Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Front position - High/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.516 mW/g

Front position - High/Zoom Scan (7x7x7) 2 (8x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm
Reference Value = 23.8 V/m; Power Drift = 0.050 dB
Peak SAR (extrapolated) = 0.702 W/kg
SAR(1 g) = 0.494 mW/g; SAR(10 g) = 0.344 mW/g
Maximum value of SAR (measured) = 0.530 mW/g
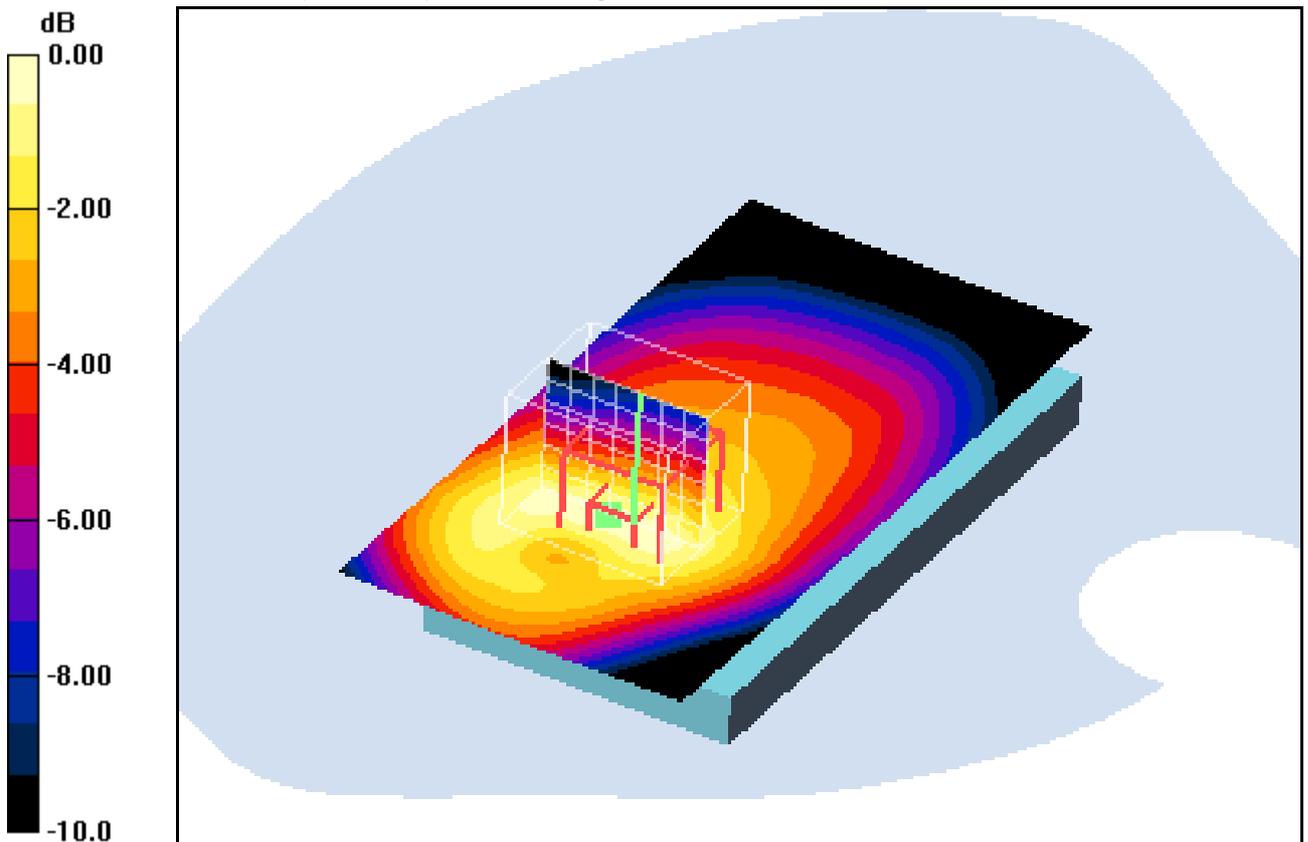
0 dB = 0.530mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 22.9°C; liquid temperature: 22.4°C

Date/Time: 18.07.2012 15:27:27Date/Time: 18.07.2012 15:36:52Date/Time: 18.07.2012 15:52:19

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M900 Medium parameters used: f = 824.2 MHz; σ = 0.97 mho/m; ε_r = 55; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.277 mW/g

Rear position - Low/Zoom Scan (7x7x7) (10x7x7)/Cube 0: Measurement grid:

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

Reference Value = 16.9 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.356 W/kg

SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.167 mW/g

Maximum value of SAR (measured) = 0.257 mW/g

Rear position - Low/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid:

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

Reference Value = 16.9 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.463 W/kg

SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.137 mW/g

Maximum value of SAR (measured) = 0.278 mW/g
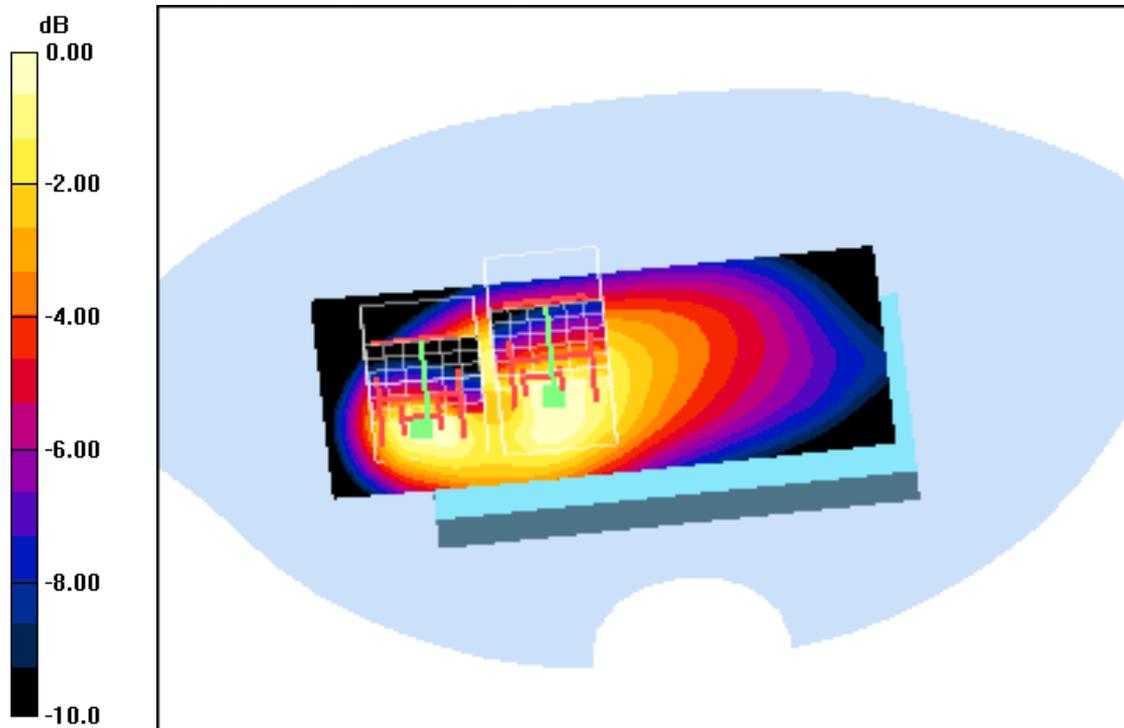
0 dB = 0.278mW/g

Additional information:

position or distance of DUT to SAM: 10mm

ambient temperature: 22.9°C; liquid temperature: 22.4°C

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Date/Time: 18.07.2012 16:05:15Date/Time: 18.07.2012 16:14:06Date/Time: 18.07.2012 16:28:04

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: PCS 850 GPRS 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2
Medium: M900 Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.432 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x9x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.8 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.562 W/kg
SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.289 mW/g
Maximum value of SAR (measured) = 0.433 mW/g

Rear position - Middle/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.8 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.733 W/kg
SAR(1 g) = 0.400 mW/g; SAR(10 g) = 0.221 mW/g
Maximum value of SAR (measured) = 0.449 mW/g

0 dB = 0.449mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 22.9°C; liquid temperature: 22.4°C

Date/Time: 18.07.2012 16:51:24Date/Time: 18.07.2012 16:59:05Date/Time: 18.07.2012 17:25:30

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M900 Medium parameters used: f = 848.8 MHz; σ = 1 mho/m; ε_r = 54.7; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.632 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x9x7)/Cube 0: Measurement grid:

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

Reference Value = 26.0 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.448 mW/g

Maximum value of SAR (measured) = 0.644 mW/g

Rear position - High/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid:

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

Reference Value = 26.0 V/m; Power Drift = -0.078 dB

Peak SAR (extrapolated) = 0.558 W/kg

SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.164 mW/g

Maximum value of SAR (measured) = 0.348 mW/g

0 dB = 0.348mW/g

Additional information:

position or distance of DUT to SAM: 10mm

ambient temperature: 22.9°C; liquid temperature: 22.4°C

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 850 GPRS 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2
Medium: M900 Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; $ε_r$ = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge left position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.119 mW/g

Edge left position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.70 V/m; Power Drift = 0.019 dB
Peak SAR (extrapolated) = 0.151 W/kg
SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.053 mW/g
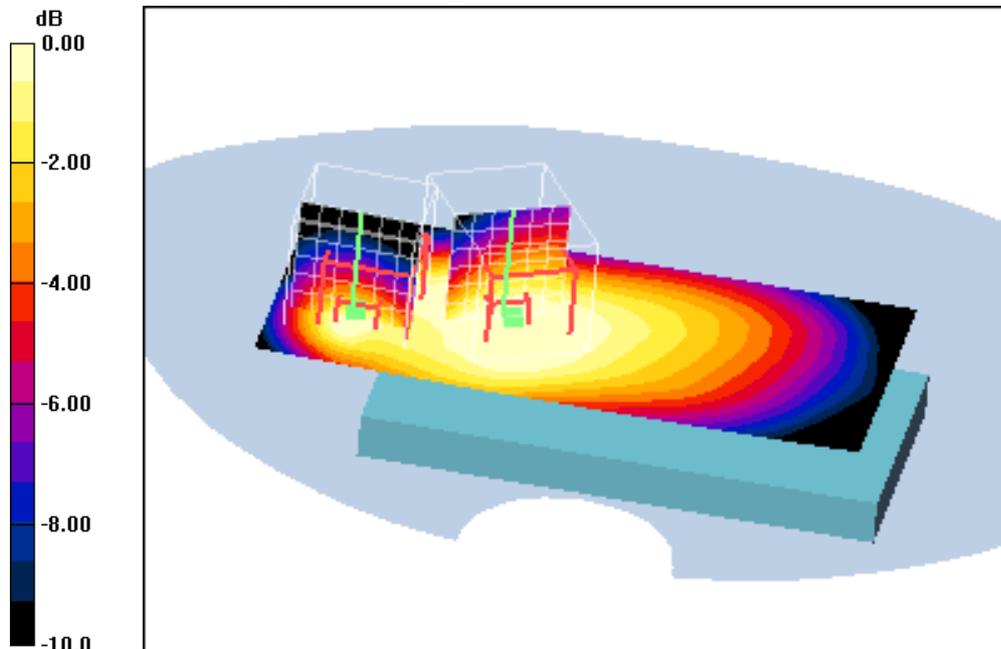Maximum value of SAR (measured) = 0.100 mW/g
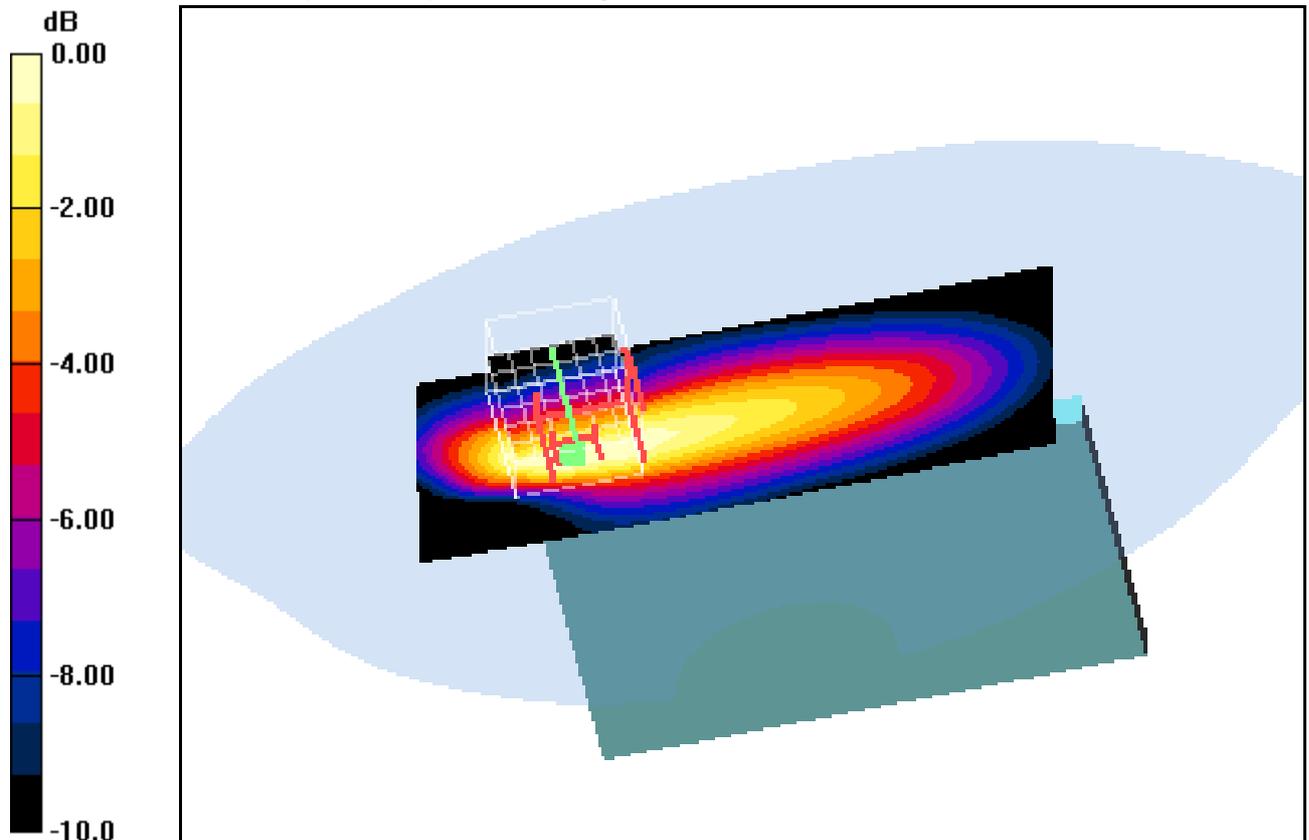
0 dB = 0.100mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 22.9°C; liquid temperature: 22.4°C

Date/Time: 19.07.2012 10:15:49Date/Time: 19.07.2012 10:45:35

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: PCS 850 GPRS 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2
Medium: M900 Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge right position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.177 mW/g

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

Reference Value = 12.0 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 0.230 W/kg
SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.117 mW/g
Maximum value of SAR (measured) = 0.178 mW/g
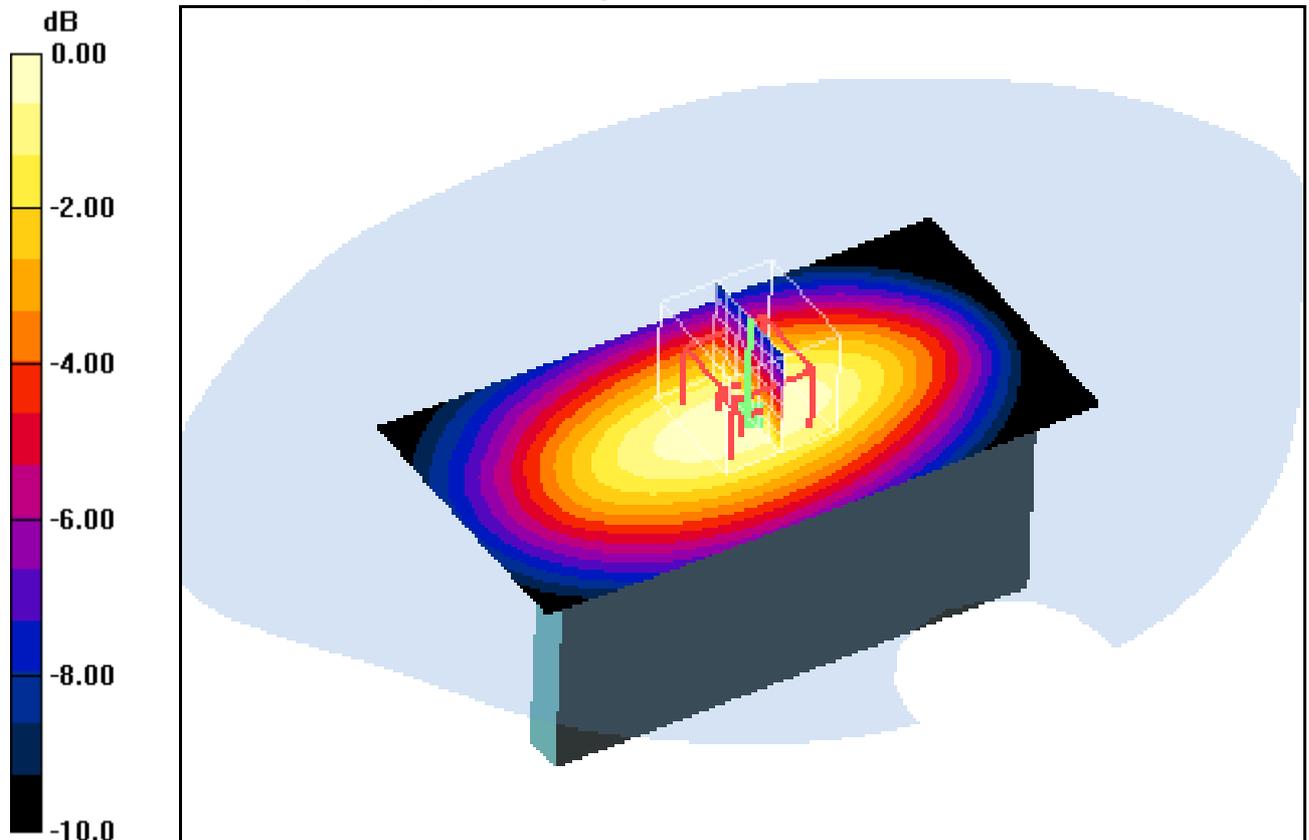
0 dB = 0.178mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 22.9°C; liquid temperature: 22.4°C

Date/Time: 19.07.2012 11:15:57Date/Time: 19.07.2012 11:21:46

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 850 GPRS 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2
Medium: M900 Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - Middle/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.254 mW/g

Edge bottom position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.1 V/m; Power Drift = -0.015 dB
Peak SAR (extrapolated) = 0.435 W/kg
SAR(1 g) = 0.222 mW/g; SAR(10 g) = 0.116 mW/g
Maximum value of SAR (measured) = 0.251 mW/g
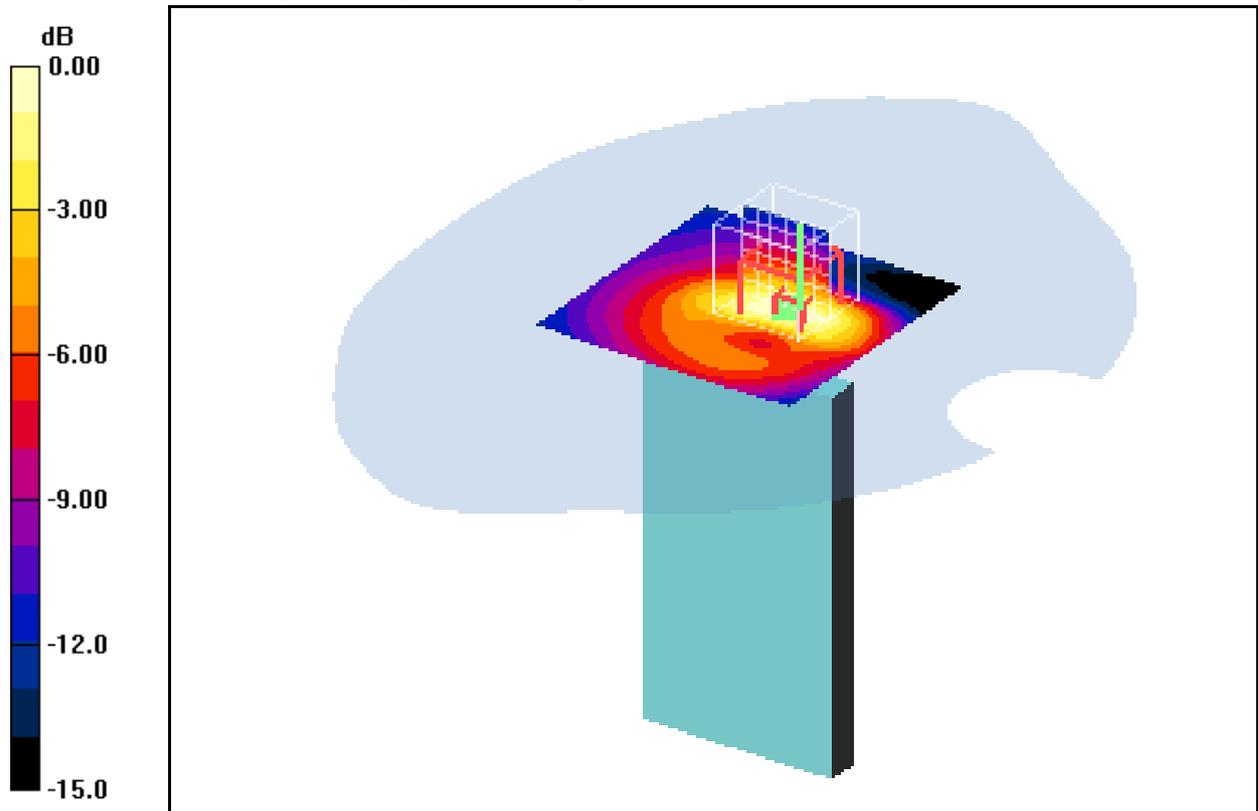
0 dB = 0.251mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 22.9°C; liquid temperature: 22.4°C

Date/Time: 19.07.2012 11:52:20Date/Time: 19.07.2012 12:00:15Date/Time: 19.07.2012 12:14:19

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 850 GPRS 4TS; Frequency: 848.8 MHz; Duty Cycle: 1:2
Medium: M900 Medium parameters used: f = 848.8 MHz; σ = 1 mho/m; $ε_r$ = 54.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High WC/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.650 mW/g

Rear position - High WC/Zoom Scan (7x7x7) (7x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.0 V/m; Power Drift = -0.011 dB
Peak SAR (extrapolated) = 0.757 W/kg
SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.410 mW/g
Maximum value of SAR (measured) = 0.617 mW/g

## Rear position - High WC/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.0 V/m; Power Drift = -0.011 dB
Peak SAR (extrapolated) = 0.867 W/kg
SAR(1 g) = 0.484 mW/g; SAR(10 g) = 0.272 mW/g
Maximum value of SAR (measured) = 0.526 mW/g

0 dB = 0.526mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 22.9°C; liquid temperature: 22.4°C

Annex B.3: GSM 850MHz body worn

Date/Time: 19.07.2012 13:23:26Date/Time: 19.07.2012 13:33:05Date/Time: 19.07.2012 13:45:38

OET65-Body-GSM850 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 850 GPRS 4TS; Frequency: 836.6 MHz; Duty Cycle: 1:2
Medium: M900 Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; $ε_r$ = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle 15mm/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

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

Rear position - Middle 15mm/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.4 V/m; Power Drift = -0.004 dB
Peak SAR (extrapolated) = 0.330 W/kg
SAR(1 g) = 0.255 mW/g; SAR(10 g) = 0.185 mW/g
Maximum value of SAR (measured) = 0.269 mW/g

Rear position - Middle 15mm/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.4 V/m; Power Drift = -0.004 dB
Peak SAR (extrapolated) = 0.268 W/kg
SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.102 mW/g
Maximum value of SAR (measured) = 0.185 mW/g
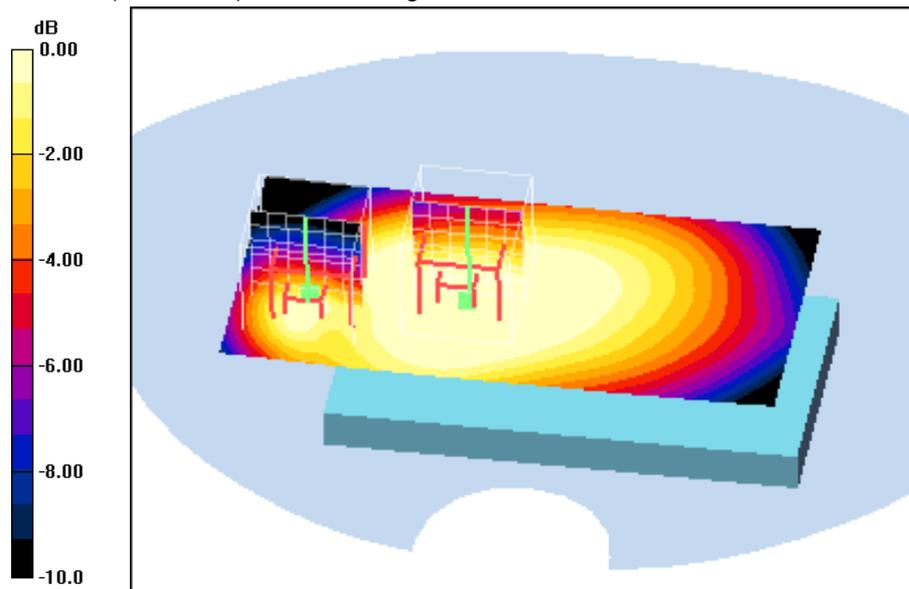
0 dB = 0.185mW/g

Additional information:
position or distance of DUT to SAM: 15mm
ambient temperature: 22.9°C; liquid temperature: 22.4°C

Date/Time: 19.07.2012 12:33:07Date/Time: 19.07.2012 12:43:26Date/Time: 19.07.2012 12:57:20

OET65-Body-GSM850 1TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M900 Medium parameters used: f = 836.6 MHz; σ = 0.98 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle 15mm/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.286 mW/g

Rear position - Middle 15mm/Zoom Scan (7x7x7) (7x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.394 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.198 mW/g

Maximum value of SAR (measured) = 0.296 mW/g

Rear position - Middle 15mm/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.1 V/m; Power Drift = 0.030 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.273 mW/g; SAR(10 g) = 0.162 mW/g

Maximum value of SAR (measured) = 0.301 mW/g
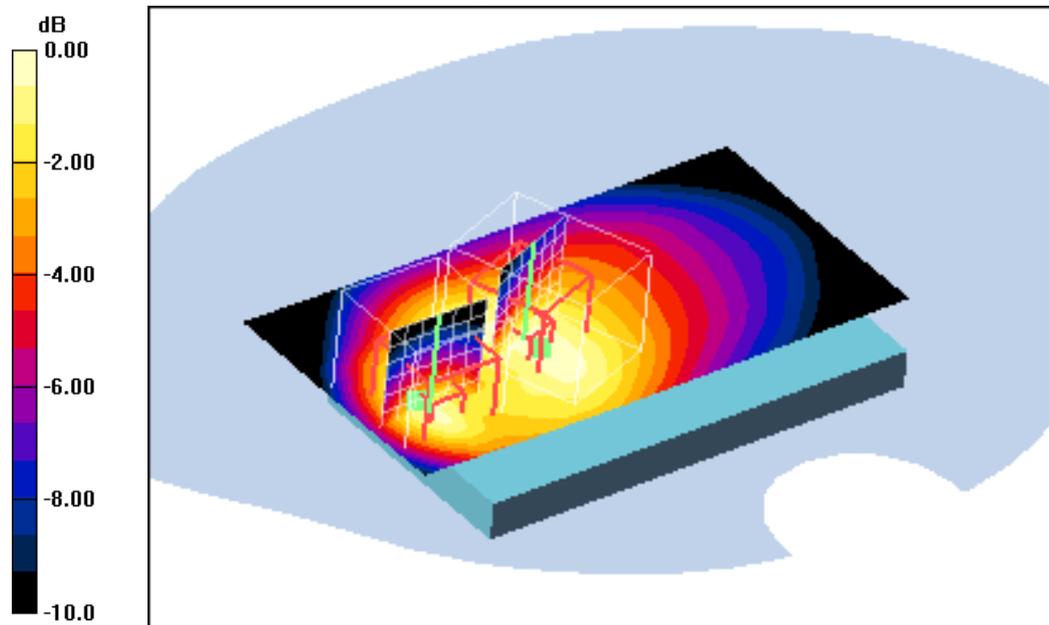
0 dB = 0.301mW/g

Additional information:

position or distance of DUT to SAM: 15mm with headset

ambient temperature: 22.9°C; liquid temperature: 22.4°C

Annex B.4: GSM 1900MHz head

Date/Time: 09.07.2012 13:34:16Date/Time: 09.07.2012 13:42:34

IEEE1528-LeftHandSide-GSM1900

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.34 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.337 mW/g

## Touch position - Low/Zoom Scan (7x7x7) (12x7x7)/Cube 0: Measurement grid:

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

Reference Value = 16.0 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 0.332 mW/g
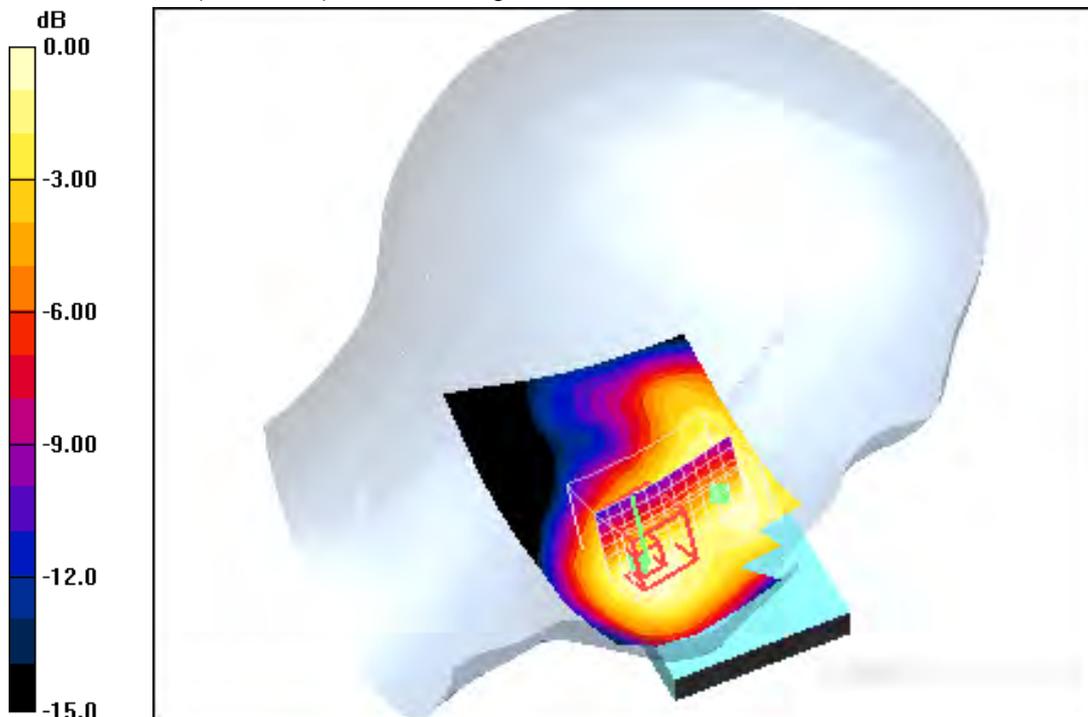
0 dB = 0.332mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 23.0°C

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Date/Time: 09.07.2012 13:00:56Date/Time: 09.07.2012 13:11:26

IEEE1528-LeftHandSide-GSM1900

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.37 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.349 mW/g

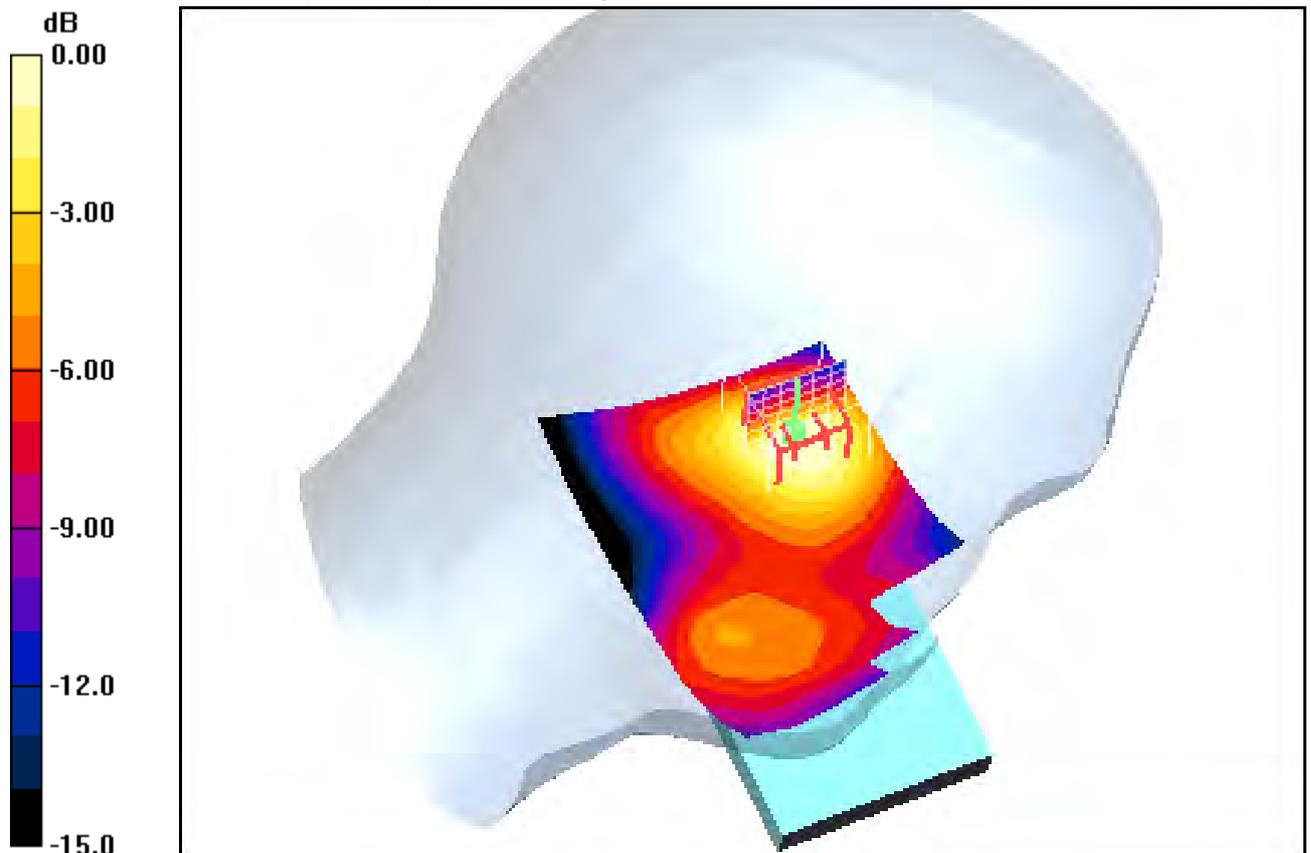## Touch position - Middle/Zoom Scan (7x7x7) (12x7x7)/Cube 0: Measurement grid:

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

Reference Value = 16.0 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 0.509 W/kg

SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.206 mW/g

Maximum value of SAR (measured) = 0.347 mW/g
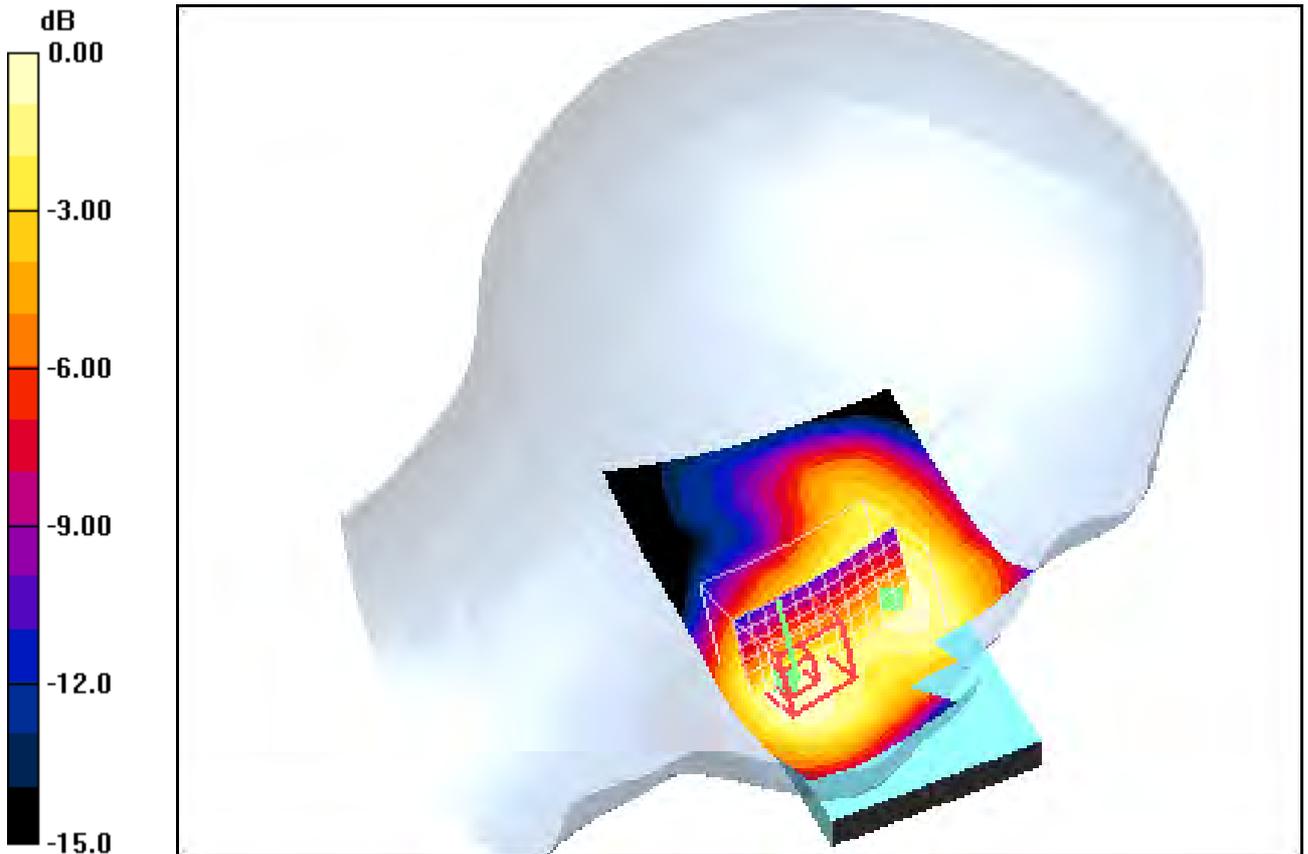
0 dB = 0.347mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 23.0°C

CETECOM™

Date/Time: 09.07.2012 14:06:07Date/Time: 09.07.2012 14:16:02

IEEE1528-LeftHandSide-GSM1900

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.4 mho/m; ε_r = 39.3; ρ = 1000 kg/m^3

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.349 mW/g

Touch position - High/Zoom Scan (7x7x7) (12x7x7)/Cube 0: Measurement grid:

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

Reference Value = 15.7 V/m; Power Drift = -0.081 dB

Peak SAR (extrapolated) = 0.519 W/kg

SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.203 mW/g

Maximum value of SAR (measured) = 0.340 mW/g
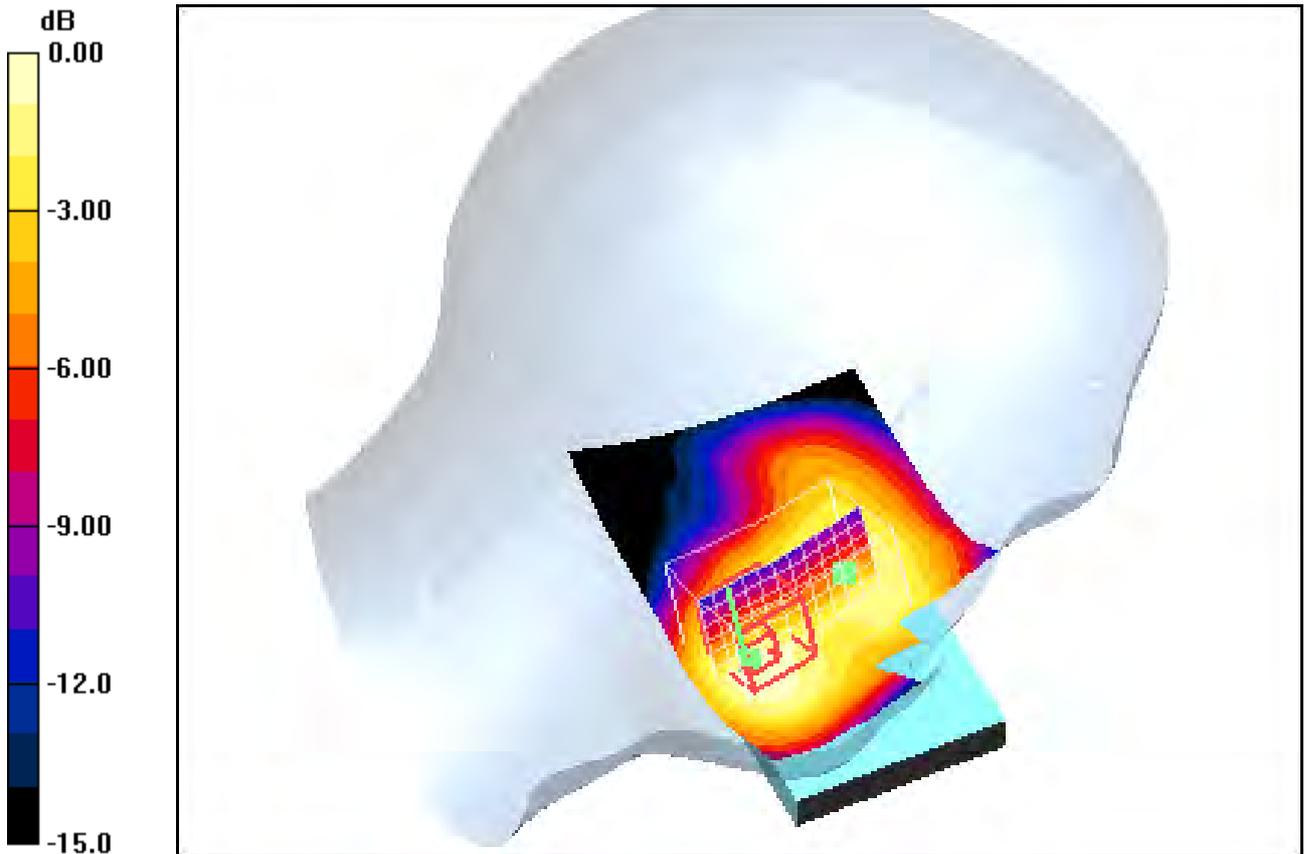
0 dB = 0.340mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 23.0°C

Date/Time: 09.07.2012 14:42:09Date/Time: 09.07.2012 14:50:52

IEEE1528-LeftHandSide-GSM1900
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.34 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.222 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,
dy=5mm, dz=5mm
Reference Value = 12.5 V/m; Power Drift = 0.056 dB
Peak SAR (extrapolated) = 0.278 W/kg
SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.121 mW/g
Maximum value of SAR (measured) = 0.211 mW/g
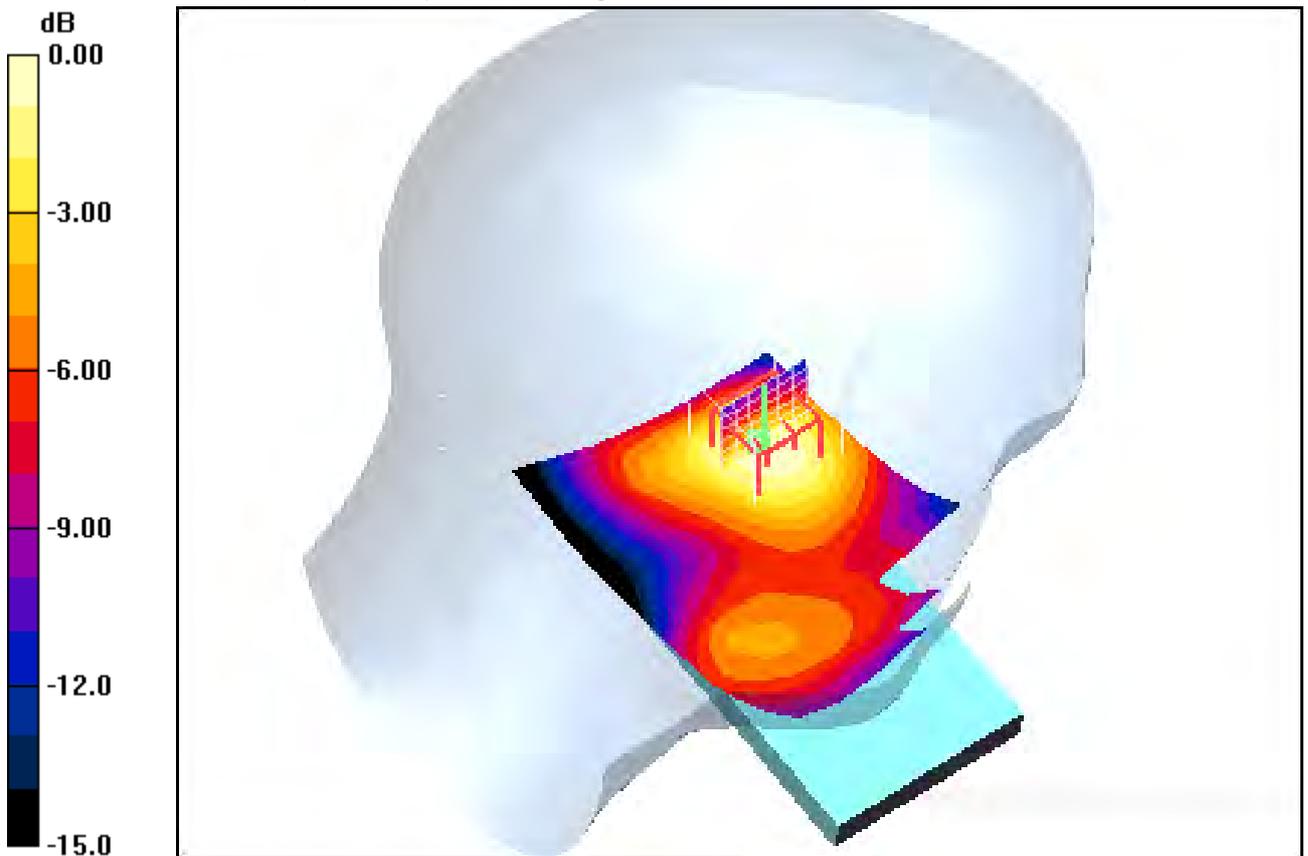
0 dB = 0.211mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 23.0°C

CETECOM™

Date/Time: 09.07.2012 15:09:37Date/Time: 09.07.2012 15:17:39

IEEE1528-LeftHandSide-GSM1900
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.37 mho/m; $ε_r$ = 39.4; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.226 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = -0.047 dB
Peak SAR (extrapolated) = 0.280 W/kg
SAR(1 g) = 0.190 mW/g; SAR(10 g) = 0.118 mW/g
Maximum value of SAR (measured) = 0.206 mW/g

0 dB = 0.206mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 23.0°C

IEEE1528-LeftHandSide-GSM1900

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.4 mho/m; ε_r = 39.3; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.218 mW/g

Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
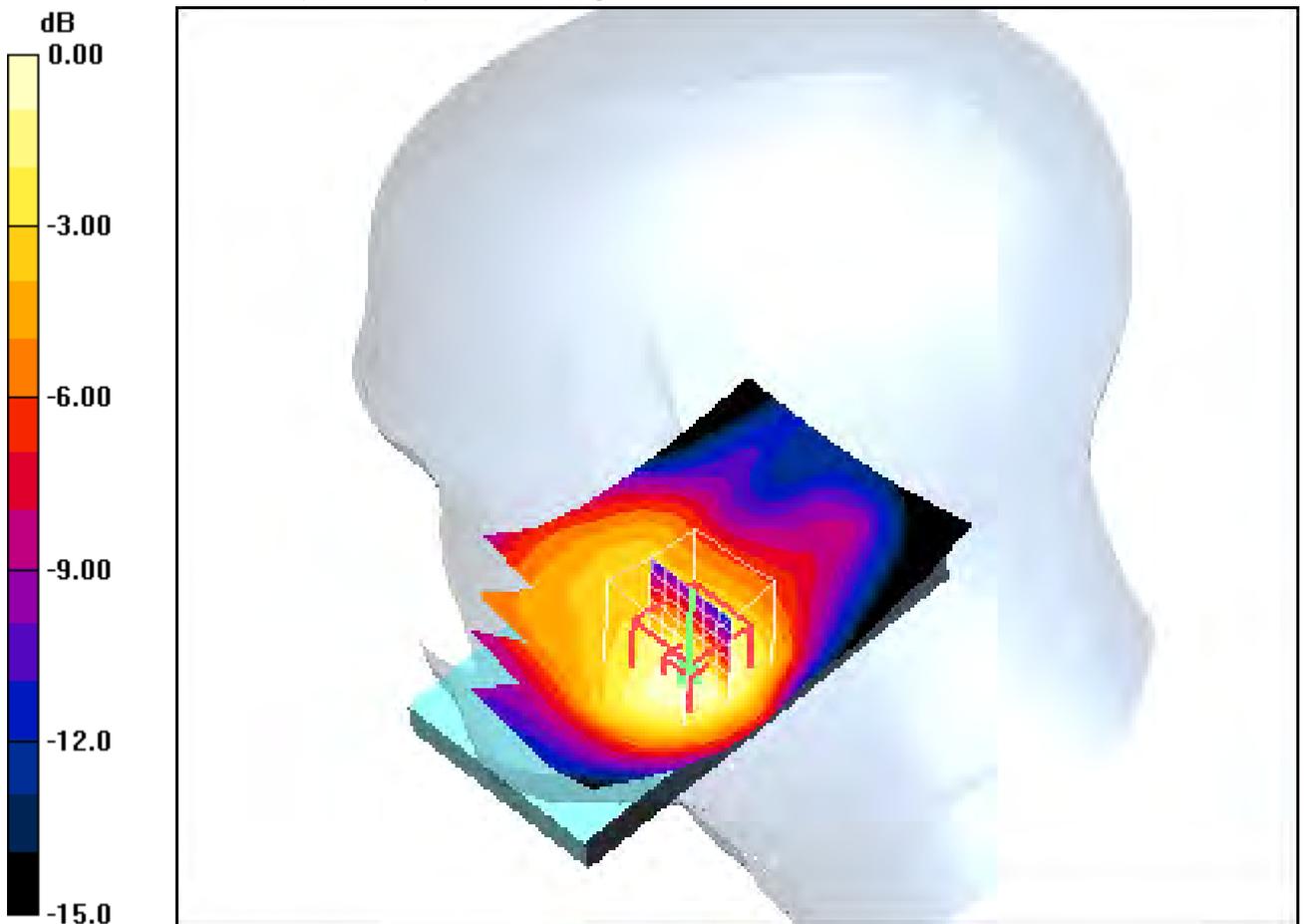Reference Value = 11.9 V/m; Power Drift = -0.064 dB
Peak SAR (extrapolated) = 0.269 W/kg
SAR(1 g) = 0.179 mW/g; SAR(10 g) = 0.110 mW/g
Maximum value of SAR (measured) = 0.192 mW/g
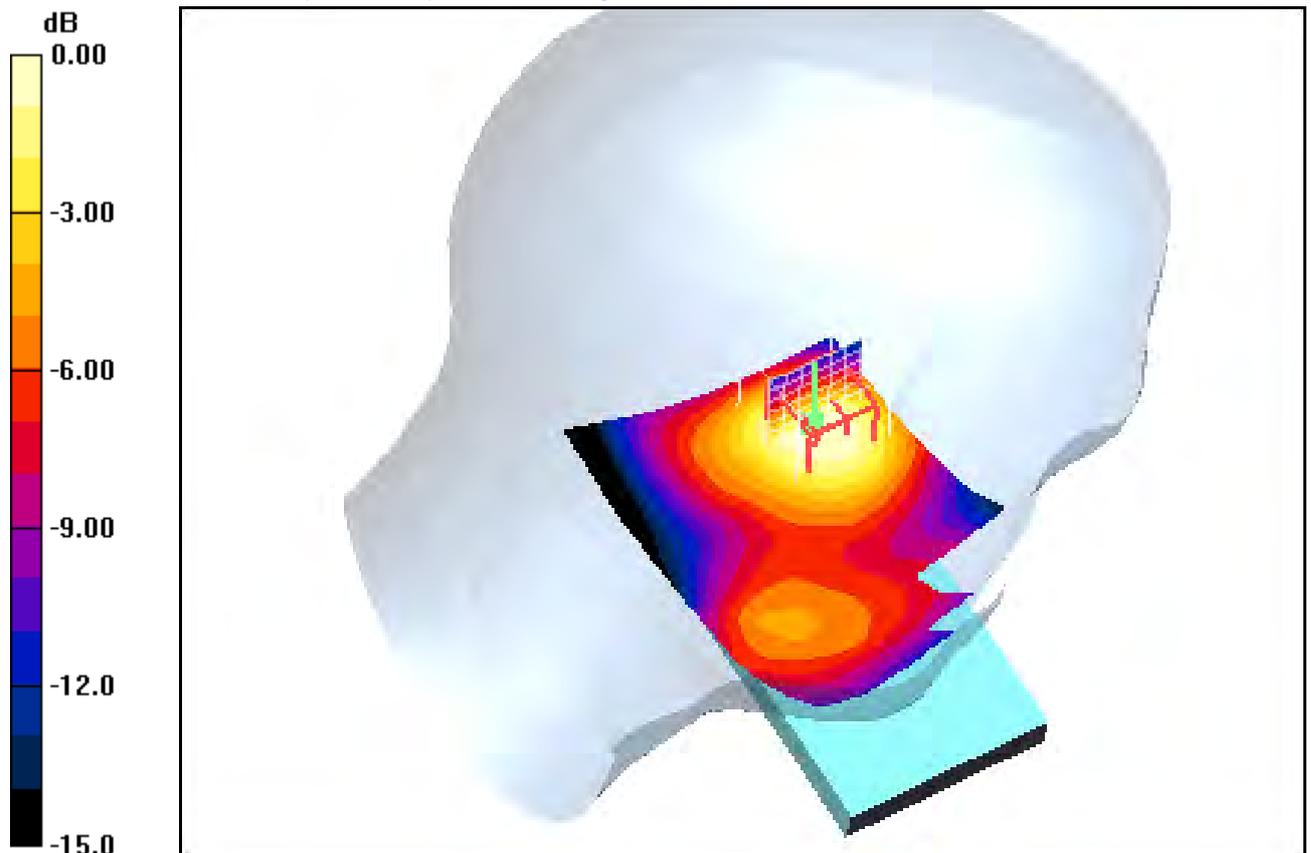
0 dB = 0.192mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 23.0°C

Date/Time: 10.07.2012 08:03:56Date/Time: 10.07.2012 08:16:32

IEEE1528-RightHandSide-GSM1900

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.34 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
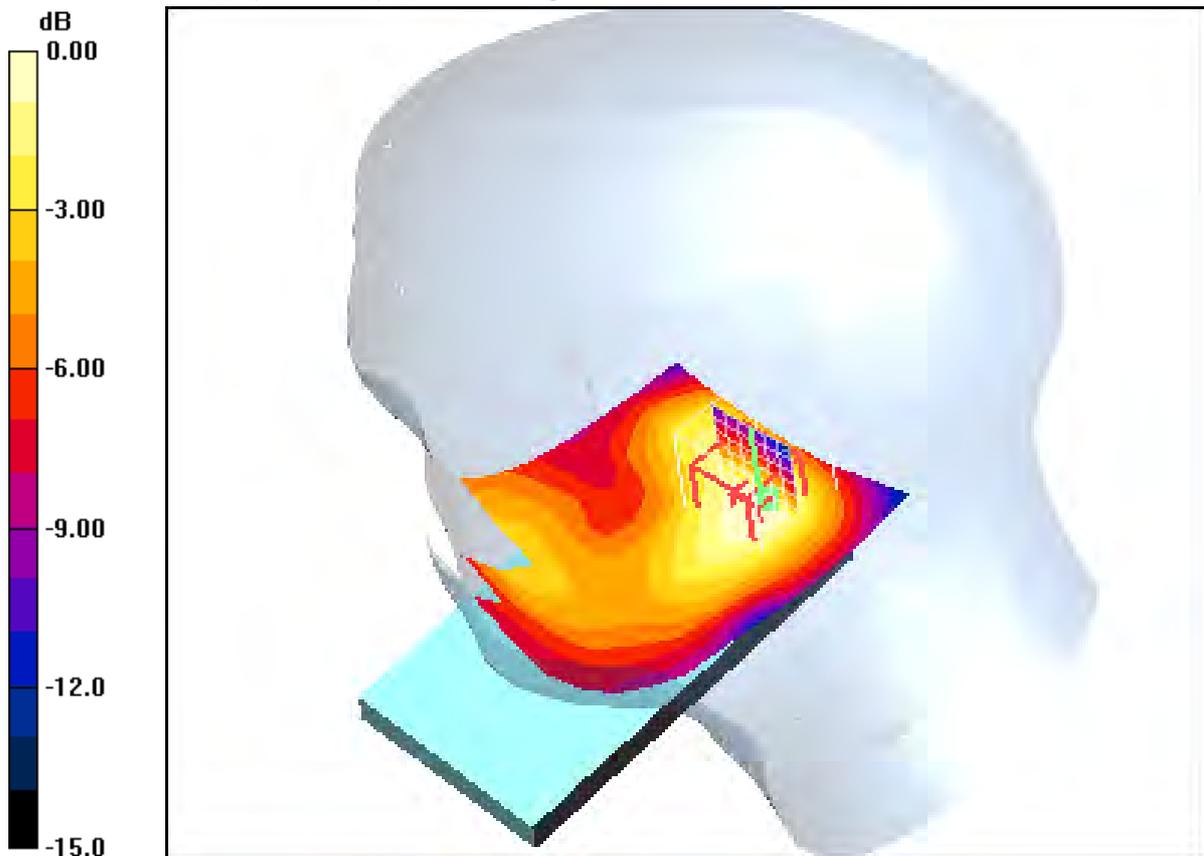Maximum value of SAR (interpolated) = 0.446 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.5 V/m; Power Drift = 0.082 dB
Peak SAR (extrapolated) = 0.599 W/kg
SAR(1 g) = 0.421 mW/g; SAR(10 g) = 0.275 mW/g
Maximum value of SAR (measured) = 0.446 mW/g
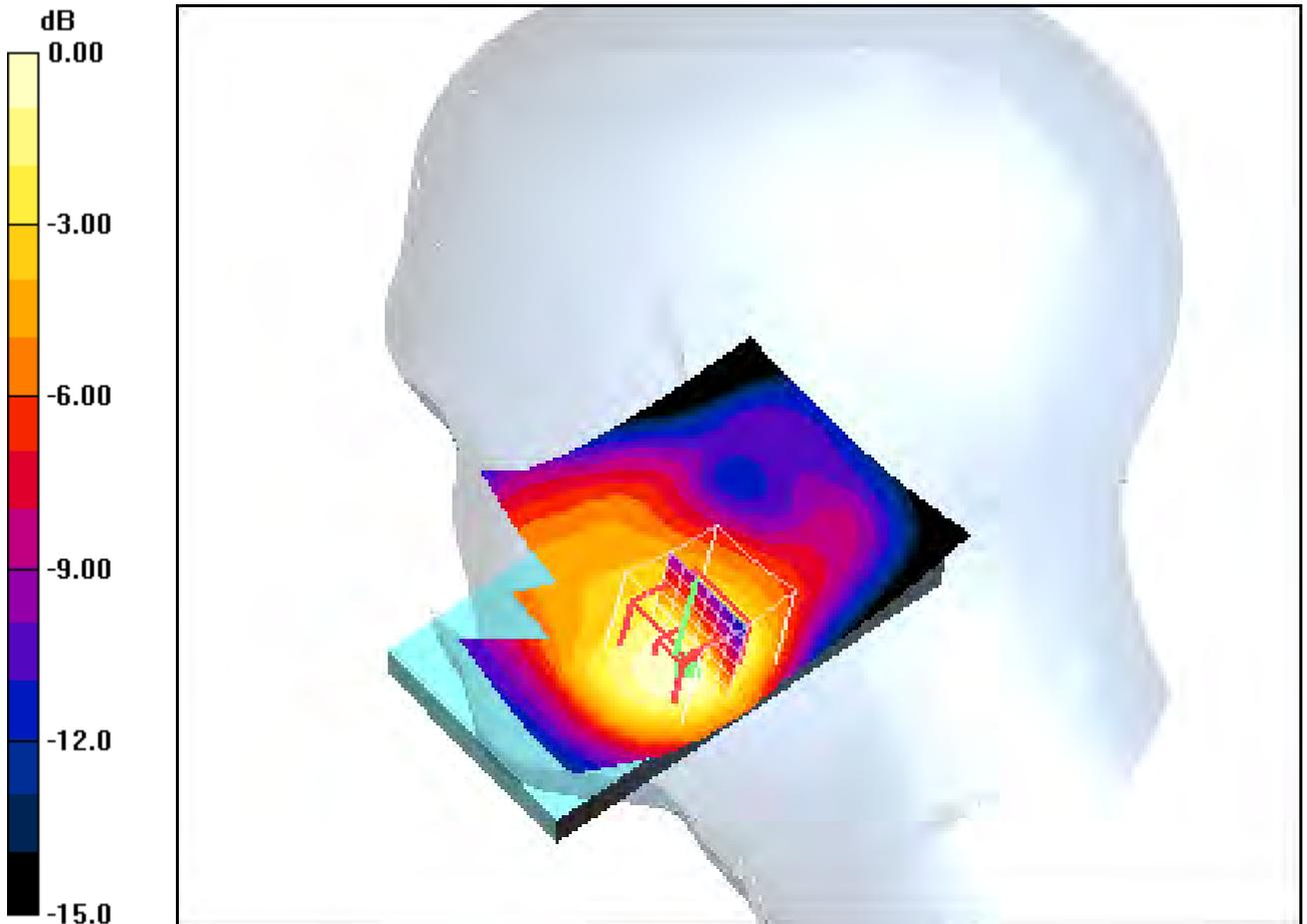
0 dB = 0.446mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

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Date/Time: 10.07.2012 08:31:08Date/Time: 10.07.2012 08:38:20

IEEE1528-RightHandSide-GSM1900
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.37 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.460 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.2 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.591 W/kg
SAR(1 g) = 0.417 mW/g; SAR(10 g) = 0.270 mW/g
Maximum value of SAR (measured) = 0.449 mW/g
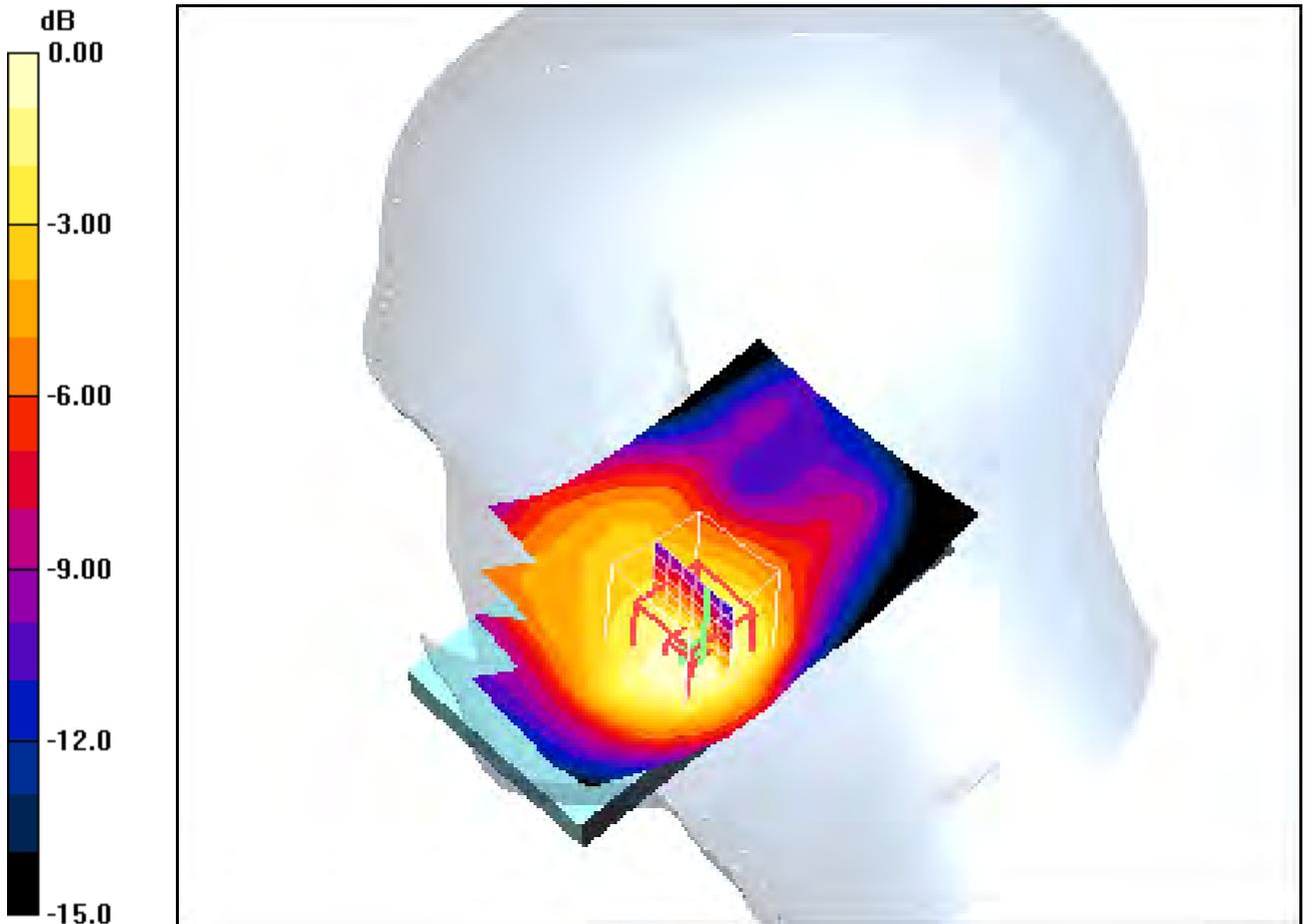
0 dB = 0.449mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

Date/Time: 10.07.2012 08:53:33Date/Time: 10.07.2012 09:00:47

IEEE1528-RightHandSide-GSM1900

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.4 mho/m; $ε_r$ = 39.3; ρ = 1000 kg/m³
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.445 mW/g

## Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.6 V/m; Power Drift = 0.023 dB
Peak SAR (extrapolated) = 0.572 W/kg
SAR(1 g) = 0.401 mW/g; SAR(10 g) = 0.256 mW/g
Maximum value of SAR (measured) = 0.432 mW/g

0 dB = 0.432mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

IEEE1528-RightHandSide-GSM1900

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.34 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.134 mW/g

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

Reference Value = 9.63 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.071 mW/g

Maximum value of SAR (measured) = 0.120 mW/g

0 dB = 0.120mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 23.0°C

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IEEE1528-RightHandSide-GSM1900

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.37 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
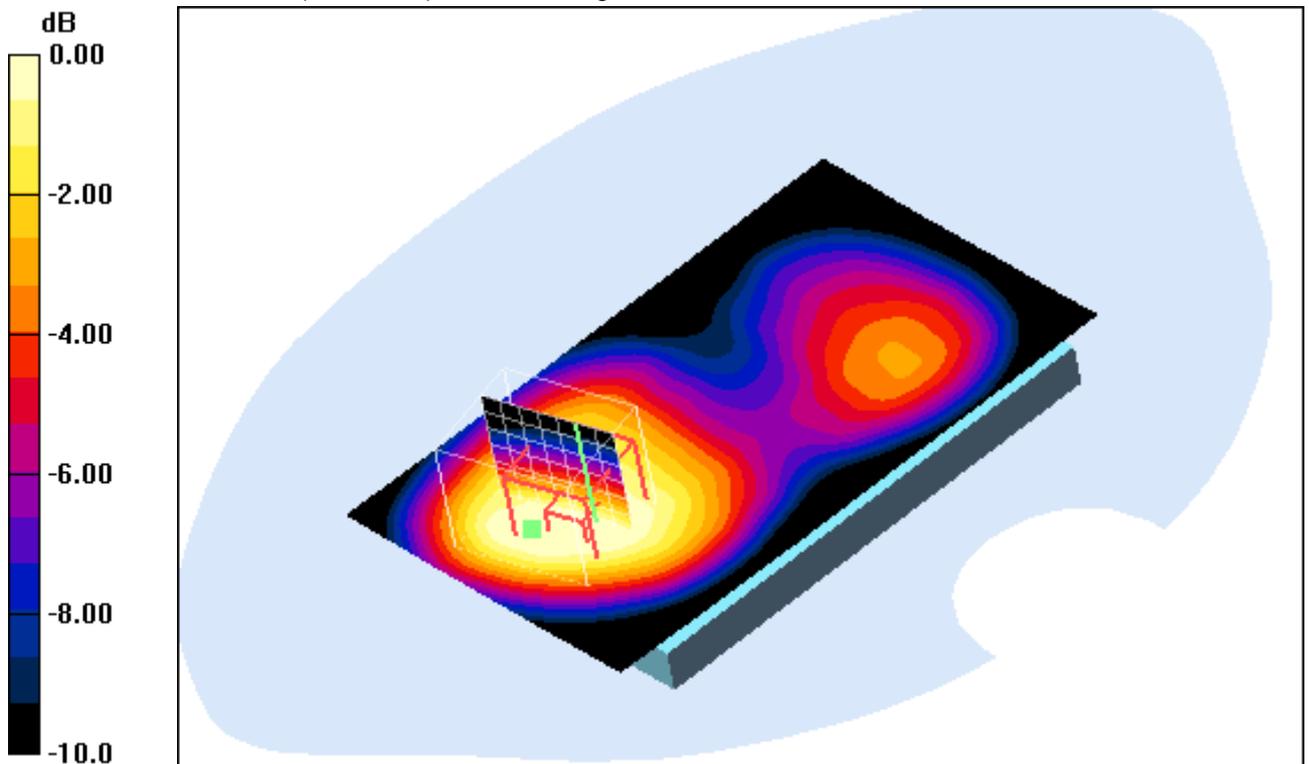
Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.137 mW/g

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

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

Reference Value = 10.2 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.119 mW/g; SAR(10 g) = 0.076 mW/g
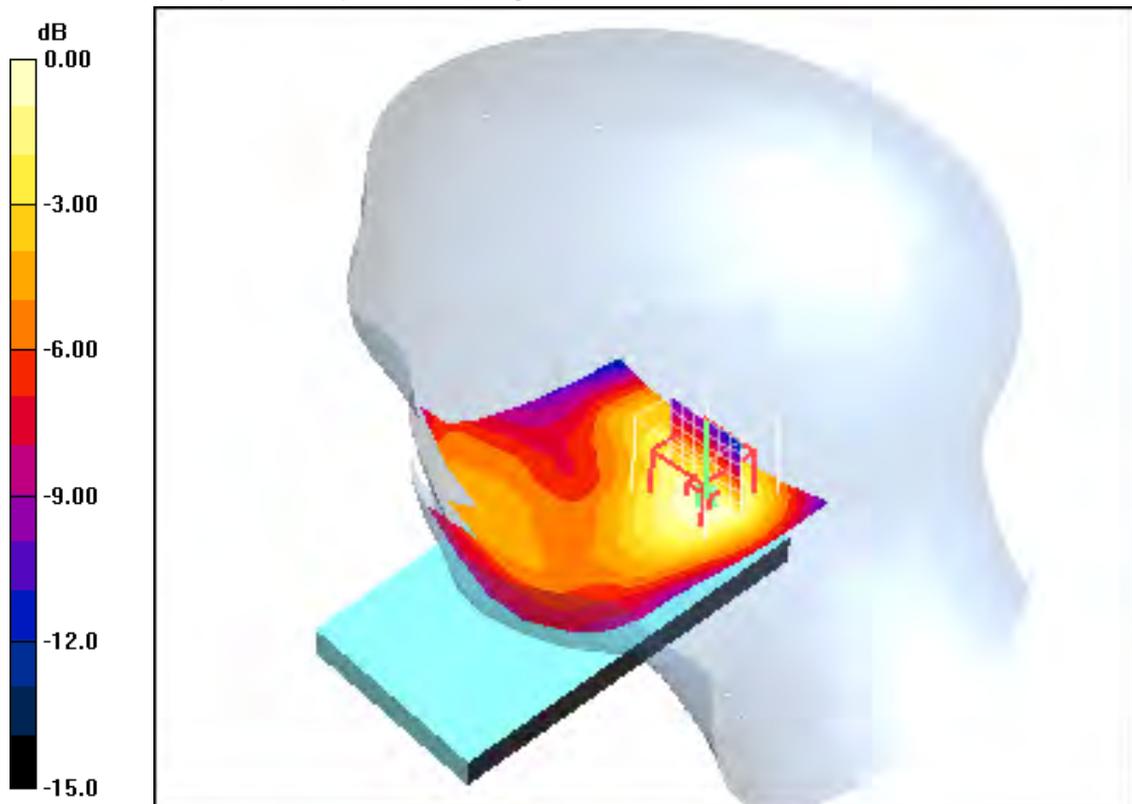
Maximum value of SAR (measured) = 0.128 mW/g

0 dB = 0.128mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 23.0°C

Date/Time: 09.07.2012 15:55:21Date/Time: 09.07.2012 16:04:04

IEEE1528-RightHandSide-GSM1900
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.4 mho/m; ε_r = 39.3; ρ = 1000 kg/m³
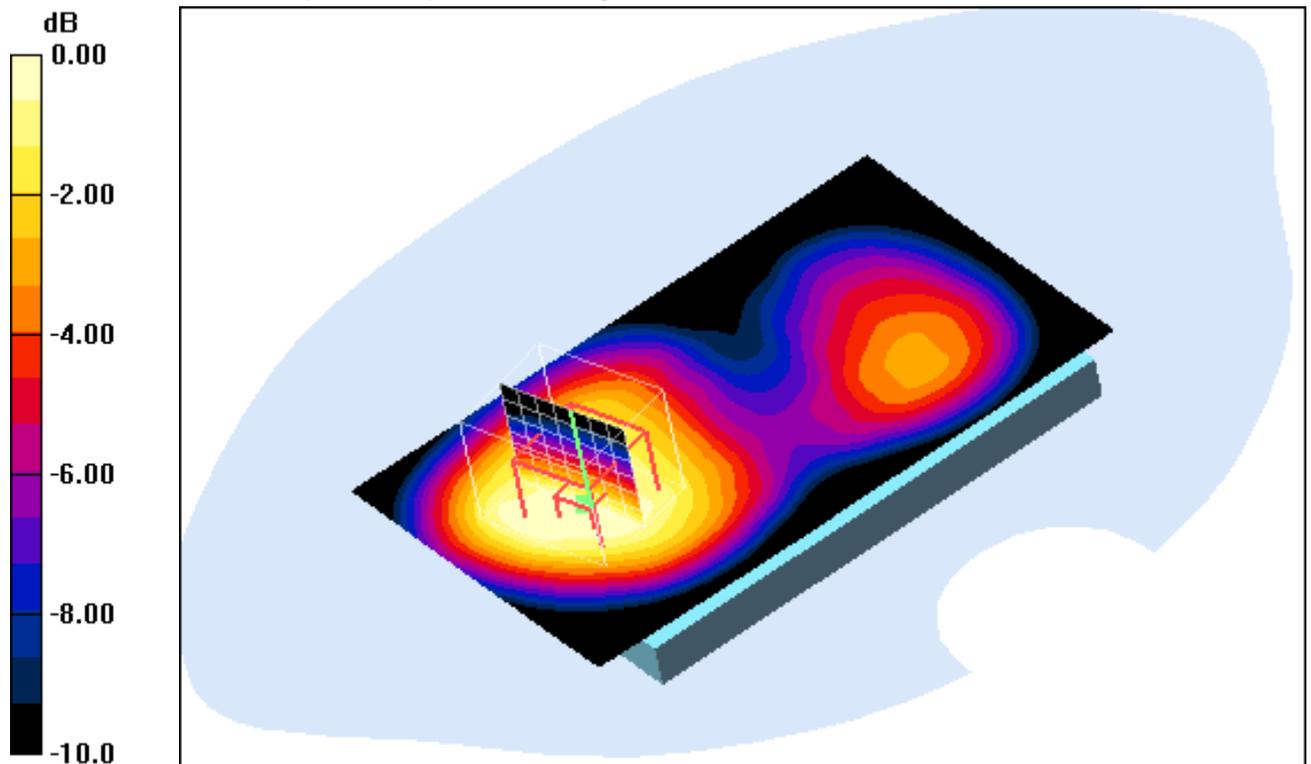Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.133 mW/g

Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.0 V/m; Power Drift = 0.015 dB
Peak SAR (extrapolated) = 0.172 W/kg
SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.072 mW/g
Maximum value of SAR (measured) = 0.126 mW/g
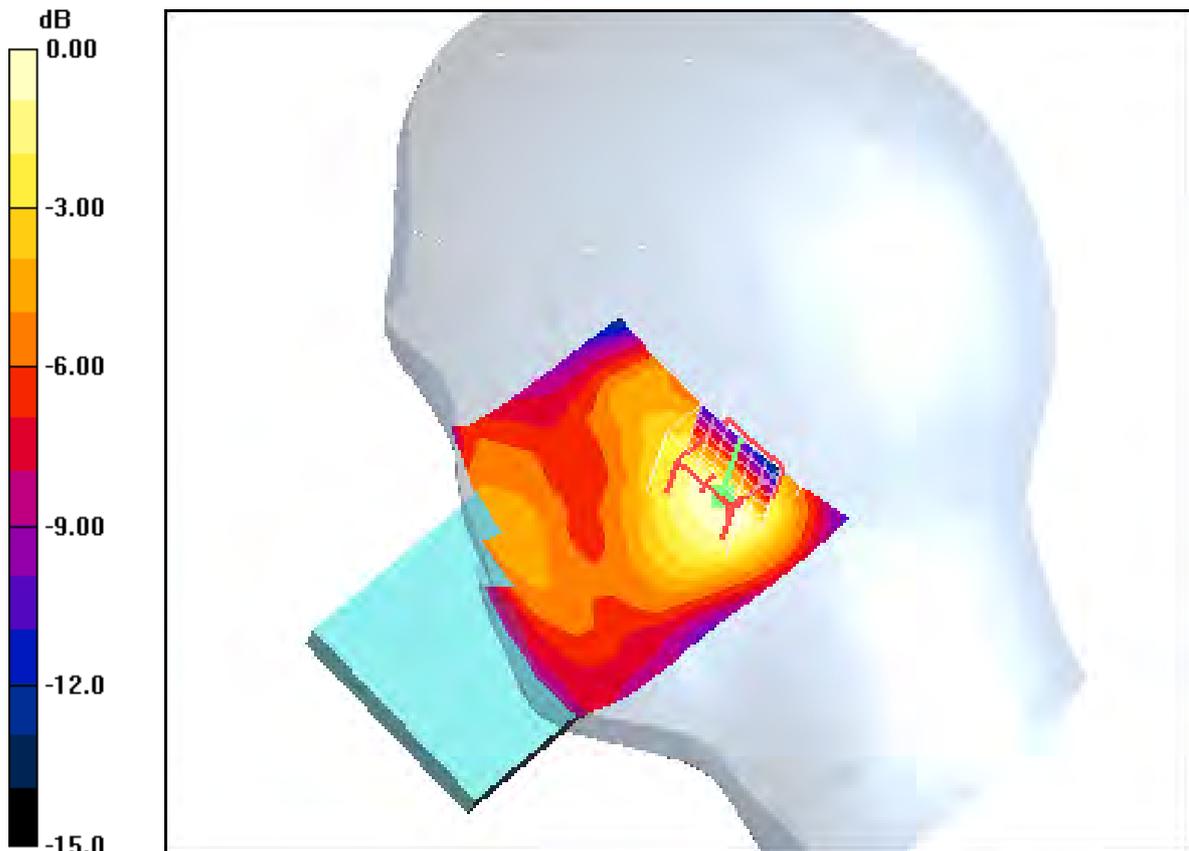
0 dB = 0.126mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 23.0°C

Date/Time: 10.07.2012 09:17:06Date/Time: 10.07.2012 09:31:43

IEEE1528-RightHandSide-GSM1900
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: DCS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.34 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Low WC/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.434 mW/g

Touch position - Low WC/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.9 V/m; Power Drift = -0.057 dB
Peak SAR (extrapolated) = 0.563 W/kg
SAR(1 g) = 0.399 mW/g; SAR(10 g) = 0.261 mW/g
Maximum value of SAR (measured) = 0.430 mW/g

0 dB = 0.430mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

Annex B.5: GSM 1900MHz body hotspot

Date/Time: 25.07.2012 15:49:01Date/Time: 25.07.2012 15:58:01

OET65-Body-GSM1900 GPRS 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 1900 GPRS 4TS; Frequency: 1850.2 MHz; Duty Cycle: 1:2
Medium: M1900 Medium parameters used: f = 1850.2 MHz; σ = 1.45 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.561 mW/g

## Front position - Low/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.4 V/m; Power Drift = -0.111 dB
Peak SAR (extrapolated) = 0.793 W/kg
SAR(1 g) = 0.492 mW/g; SAR(10 g) = 0.323 mW/g
Maximum value of SAR (measured) = 0.531 mW/g

0 dB = 0.531mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.0°C

Date/Time: 25.07.2012 16:12:24Date/Time: 25.07.2012 16:24:13

OET65-Body-GSM1900 GPRS 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 1900 GPRS 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.575 mW/g

Front position - Middle/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.9 V/m; Power Drift = 0.016 dB
Peak SAR (extrapolated) = 0.839 W/kg
SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.348 mW/g
Maximum value of SAR (measured) = 0.575 mW/g

0 dB = 0.575mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.0°C

Date/Time: 25.07.2012 16:38:50Date/Time: 25.07.2012 16:46:59

OET65-Body-GSM1900 GPRS 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 1900 GPRS 4TS; Frequency: 1909.8 MHz; Duty Cycle: 1:2
Medium: M1900 Medium parameters used: f = 1909.8 MHz; σ = 1.52 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.588 mW/g

## Front position - High/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.7 V/m; Power Drift = 0.015 dB
Peak SAR (extrapolated) = 0.860 W/kg
SAR(1 g) = 0.538 mW/g; SAR(10 g) = 0.353 mW/g
Maximum value of SAR (measured) = 0.577 mW/g
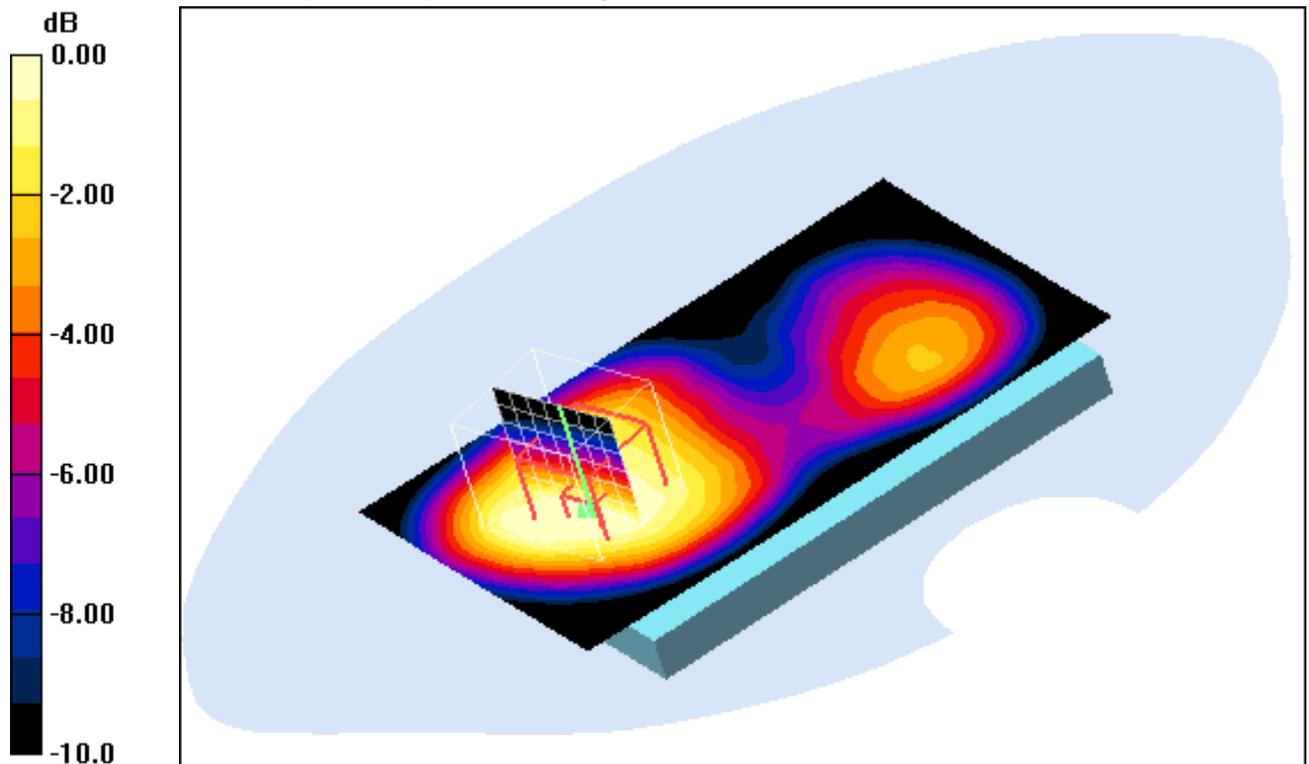
0 dB = 0.577mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.0°C

Date/Time: 26.07.2012 06:46:15Date/Time: 26.07.2012 06:56:21

OET65-Body-GSM1900 GPRS 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: PCS 1900 GPRS 4TS; Frequency: 1850.2 MHz; Duty Cycle: 1:2
Medium: M1900 Medium parameters used: f = 1850.2 MHz; σ = 1.45 mho/m; $ε_r$ = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.743 mW/g

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

dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.5 V/m; Power Drift = -0.059 dB
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.642 mW/g; SAR(10 g) = 0.399 mW/g
Maximum value of SAR (measured) = 0.698 mW/g
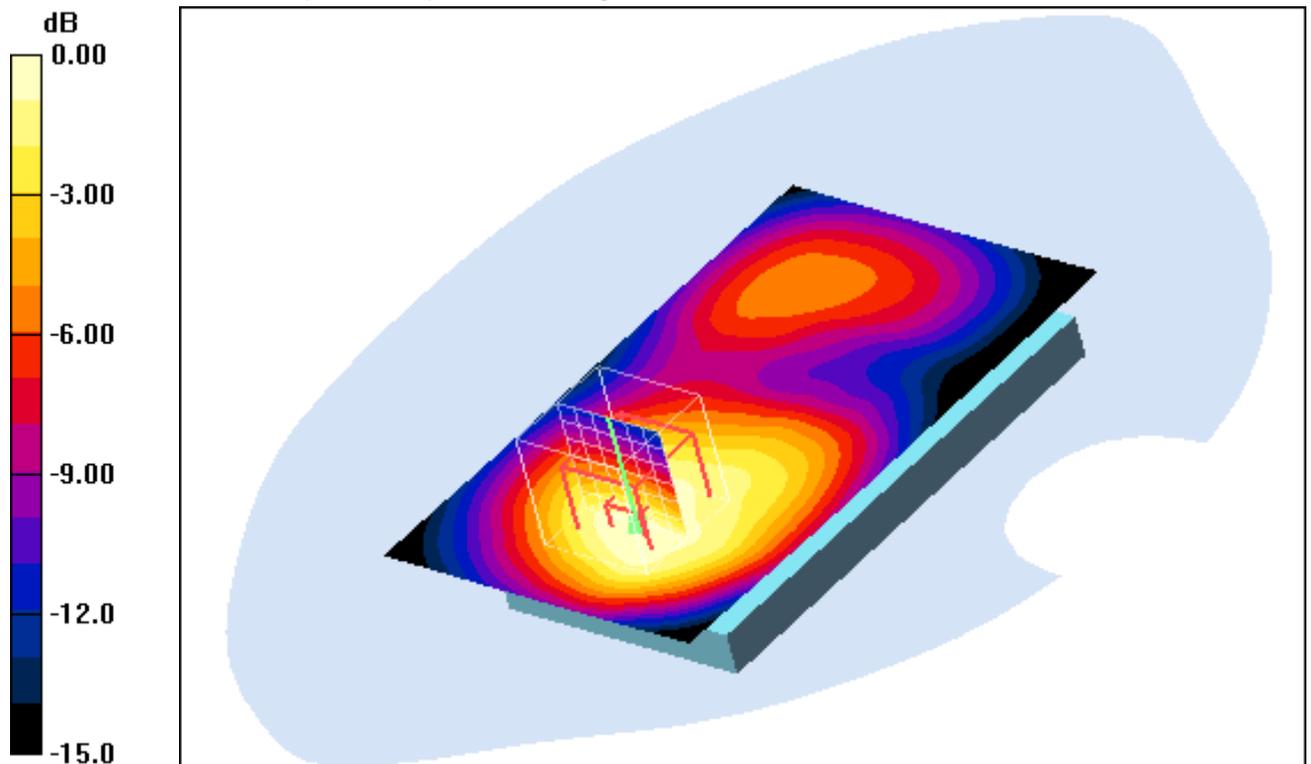
0 dB = 0.698mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.0°C

Date/Time: 26.07.2012 07:08:21Date/Time: 26.07.2012 07:15:46

OET65-Body-GSM1900 GPRS 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.706 mW/g

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

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

Reference Value = 22.3 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.405 mW/g

Maximum value of SAR (measured) = 0.695 mW/g
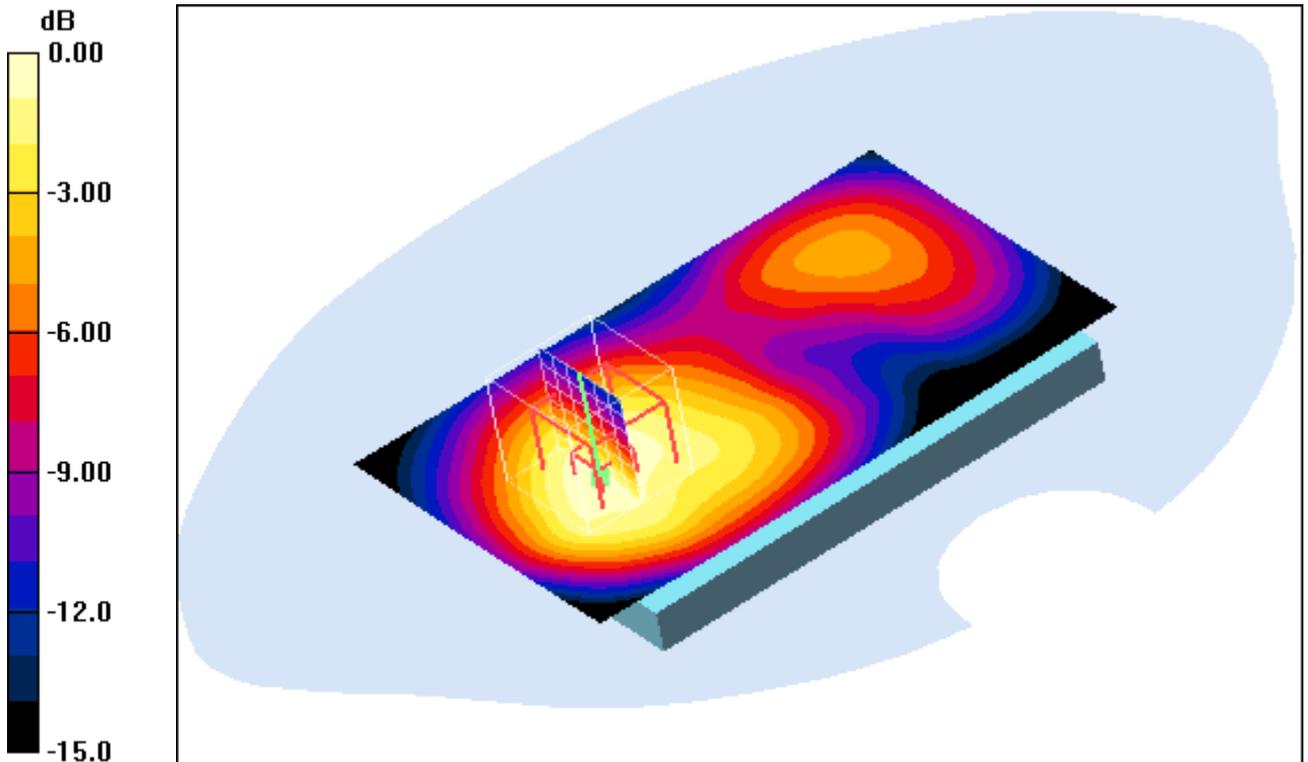
0 dB = 0.695mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 23.8°C; liquid temperature: 23.0°C

Date/Time: 26.07.2012 07:28:28Date/Time: 26.07.2012 07:35:51

OET65-Body-GSM1900 GPRS 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M1900 Medium parameters used: f = 1909.8 MHz; σ = 1.52 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.704 mW/g

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

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

Reference Value = 22.1 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.409 mW/g

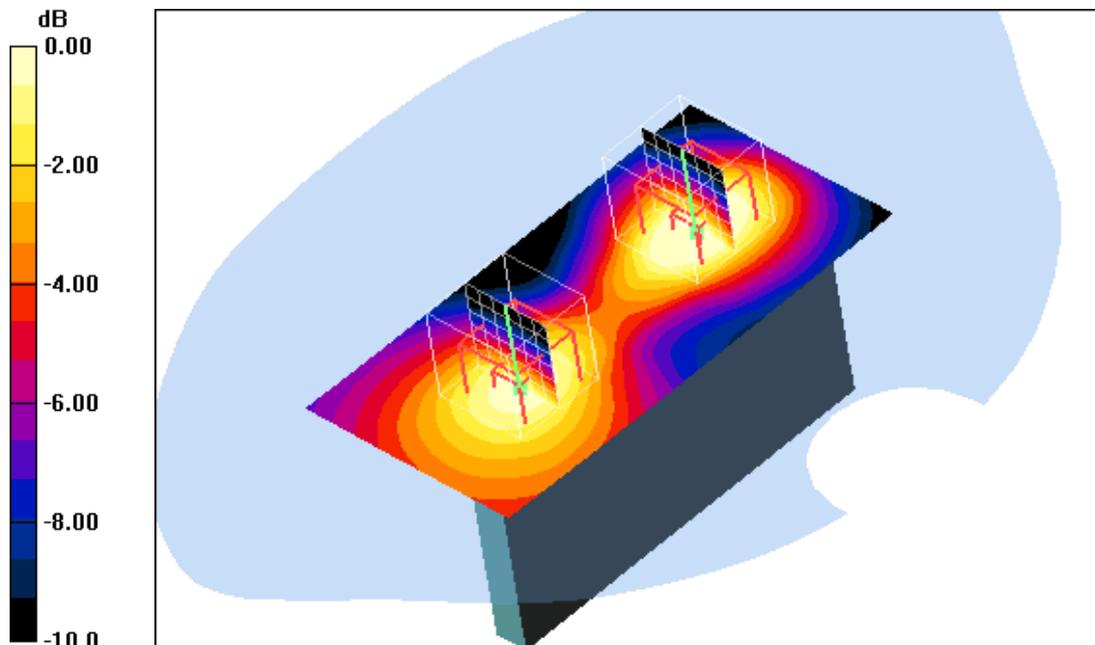Maximum value of SAR (measured) = 0.698 mW/g
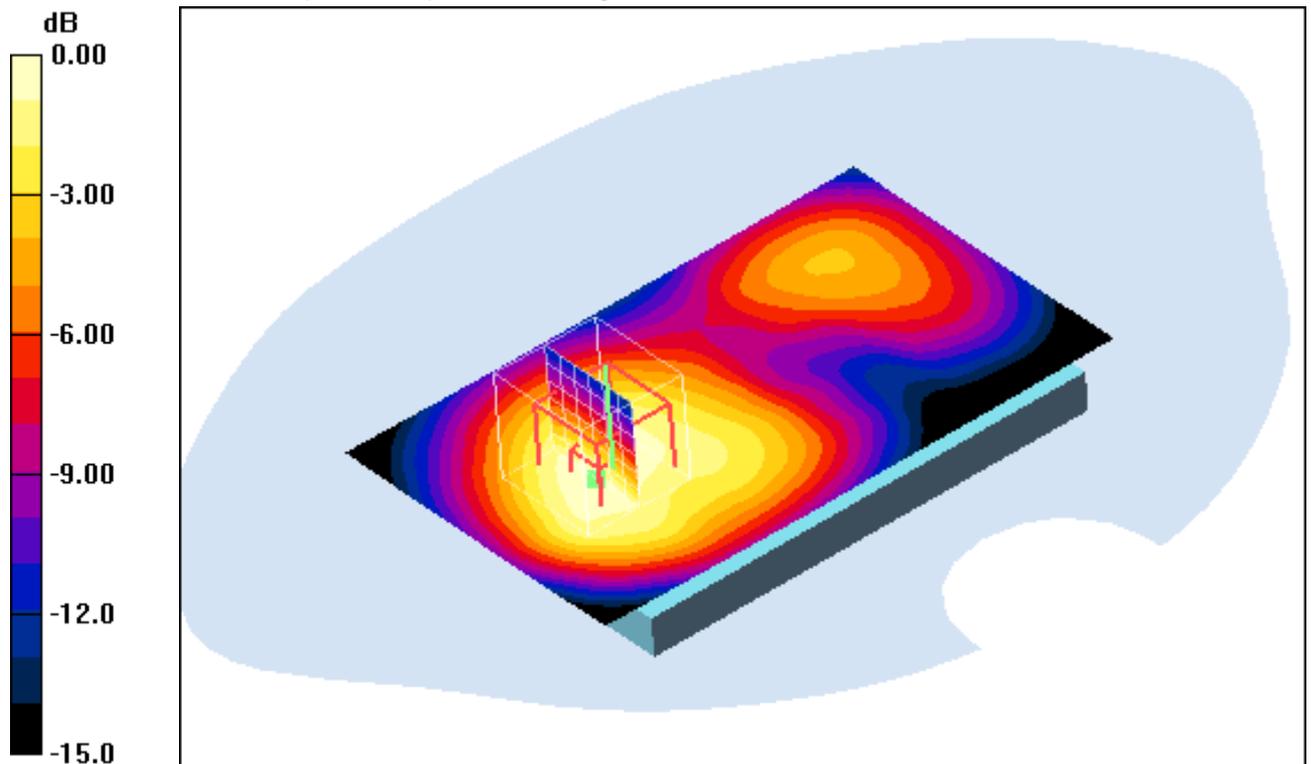
0 dB = 0.698mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 23.8°C; liquid temperature: 23.0°C

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Date/Time: 26.07.2012 07:54:24Date/Time: 26.07.2012 08:01:21

OET65-Body-GSM1900 GPRS 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 1900 GPRS 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ϵ_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge left position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.289 mW/g

## Edge left position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.9 V/m; Power Drift = -0.123 dB
Peak SAR (extrapolated) = 0.396 W/kg
SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.147 mW/g
Maximum value of SAR (measured) = 0.266 mW/g
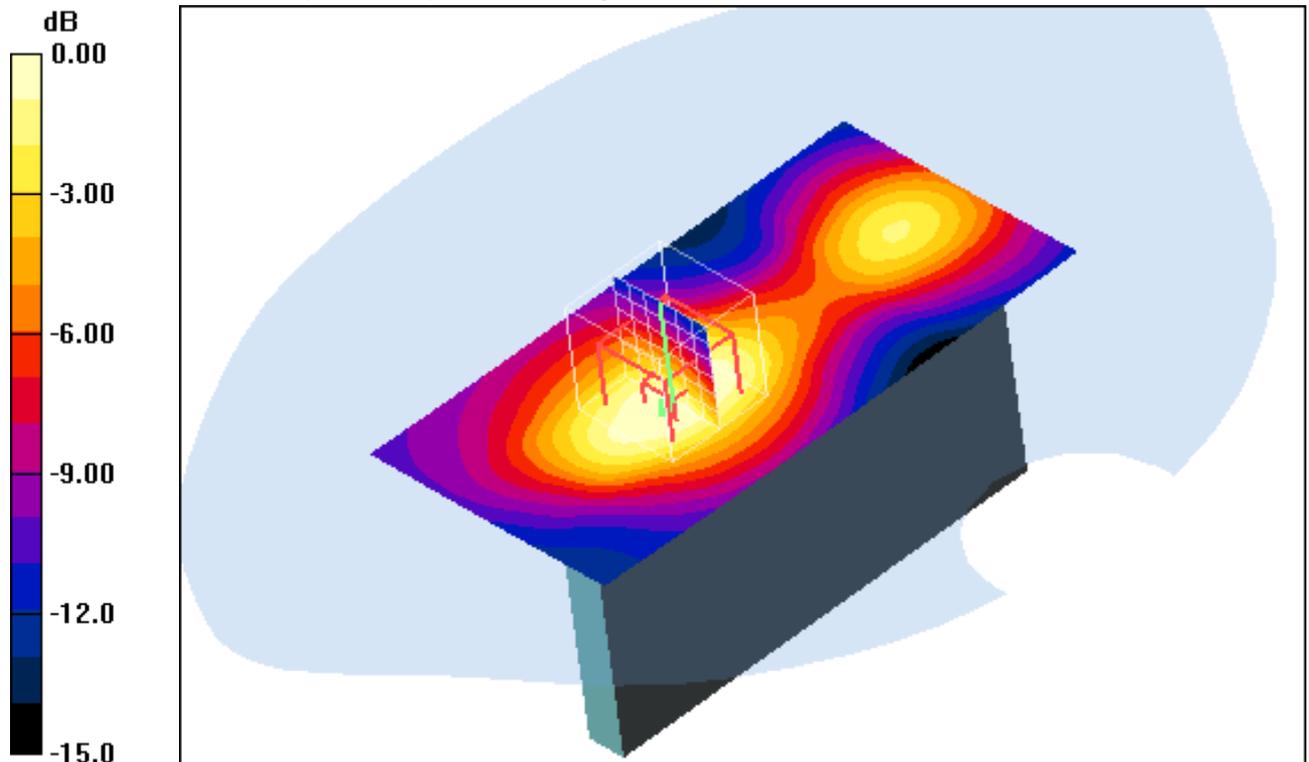
0 dB = 0.266mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.0°C

Date/Time: 26.07.2012 08:14:40Date/Time: 26.07.2012 08:21:52Date/Time: 26.07.2012 08:33:10

OET65-Body-GSM1900 GPRS 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge right position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.180 mW/g

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

Reference Value = 8.43 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 0.248 W/kg

SAR(1 g) = 0.155 mW/g; SAR(10 g) = 0.094 mW/g

Maximum value of SAR (measured) = 0.170 mW/g

Edge right position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.43 V/m; Power Drift = -0.098 dB

Peak SAR (extrapolated) = 0.212 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.080 mW/g

Maximum value of SAR (measured) = 0.142 mW/g

0 dB = 0.142mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 23.8°C; liquid temperature: 23.0°C

Date/Time: 26.07.2012 08:46:54Date/Time: 26.07.2012 08:52:31

OET65-Body-GSM1900 GPRS 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 1900 GPRS 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - Middle/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.765 mW/g

## Edge bottom position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.9 V/m; Power Drift = 0.120 dB
Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.669 mW/g; SAR(10 g) = 0.355 mW/g
Maximum value of SAR (measured) = 0.743 mW/g
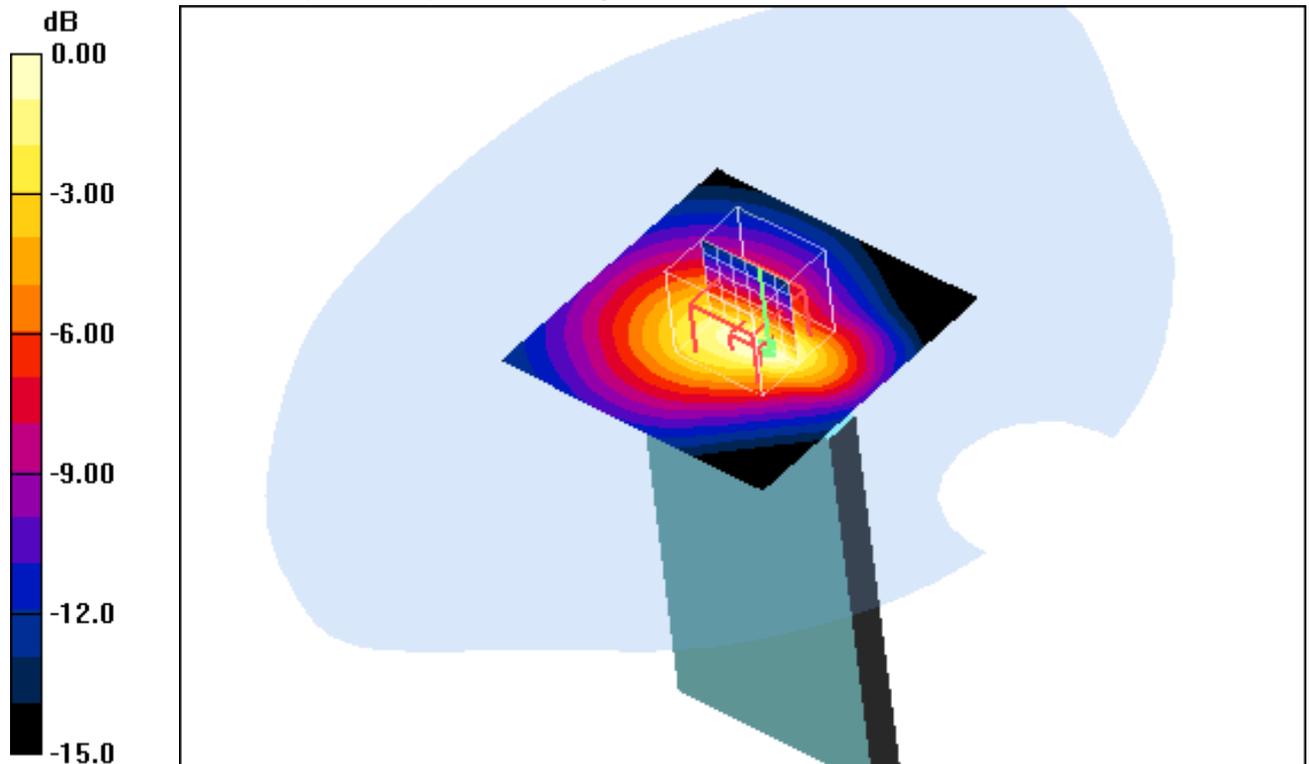
0 dB = 0.743mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.0°C

Date/Time: 26.07.2012 10:11:38Date/Time: 26.07.2012 10:17:08

OET65-Body-GSM1900 GPRS 4TS

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - Middle WC/Area Scan (61x61x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.936 mW/g

Edge bottom position - Middle WC/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.1 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.758 mW/g; SAR(10 g) = 0.398 mW/g

Maximum value of SAR (measured) = 0.840 mW/g
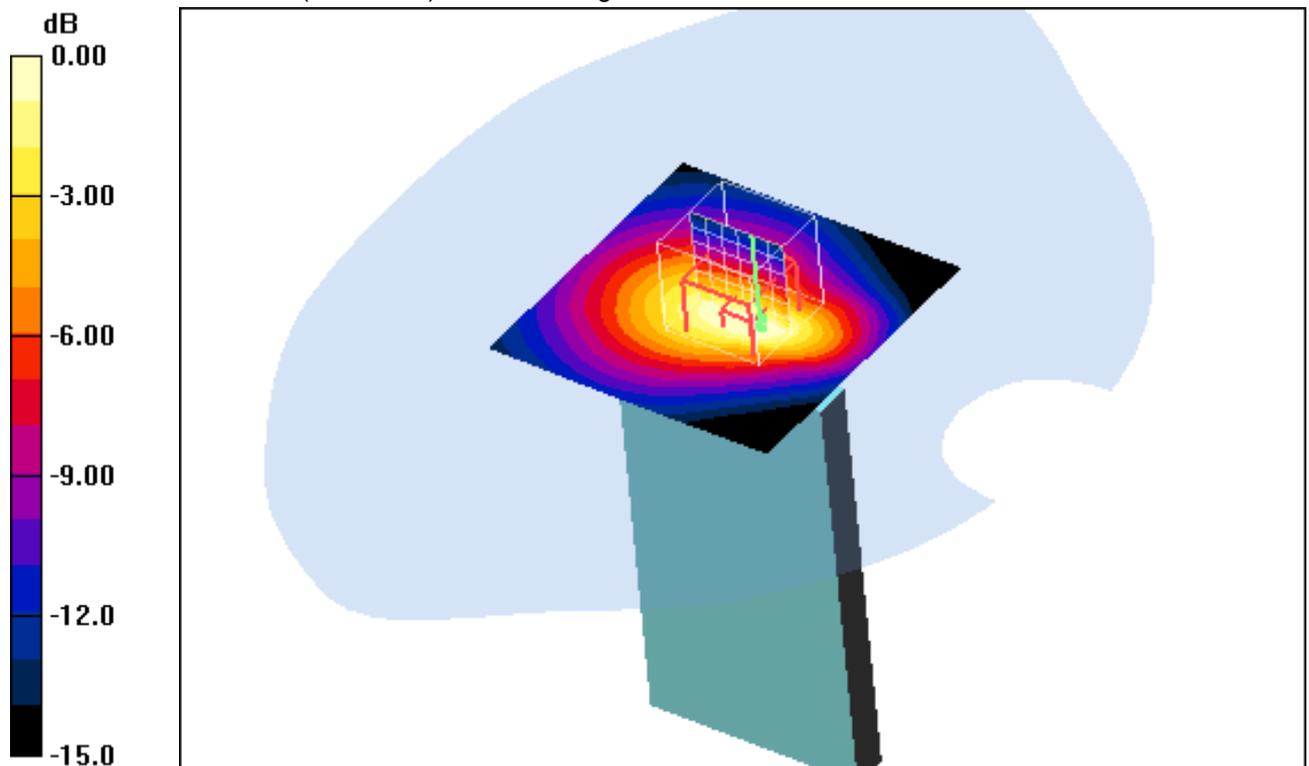
0 dB = 0.840mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 23.8°C; liquid temperature: 23.0°C

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Annex B.6: GSM 1900MHz body worn

Date/Time: 26.07.2012 09:18:11Date/Time: 26.07.2012 09:27:59

OET65-Body-GSM1900 GPRS 4TS
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: PCS 1900 GPRS 4TS; Frequency: 1880 MHz; Duty Cycle: 1:2
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle 15mm/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.344 mW/g

Rear position - Middle 15mm/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.8 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 0.486 W/kg
SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.206 mW/g
Maximum value of SAR (measured) = 0.345 mW/g
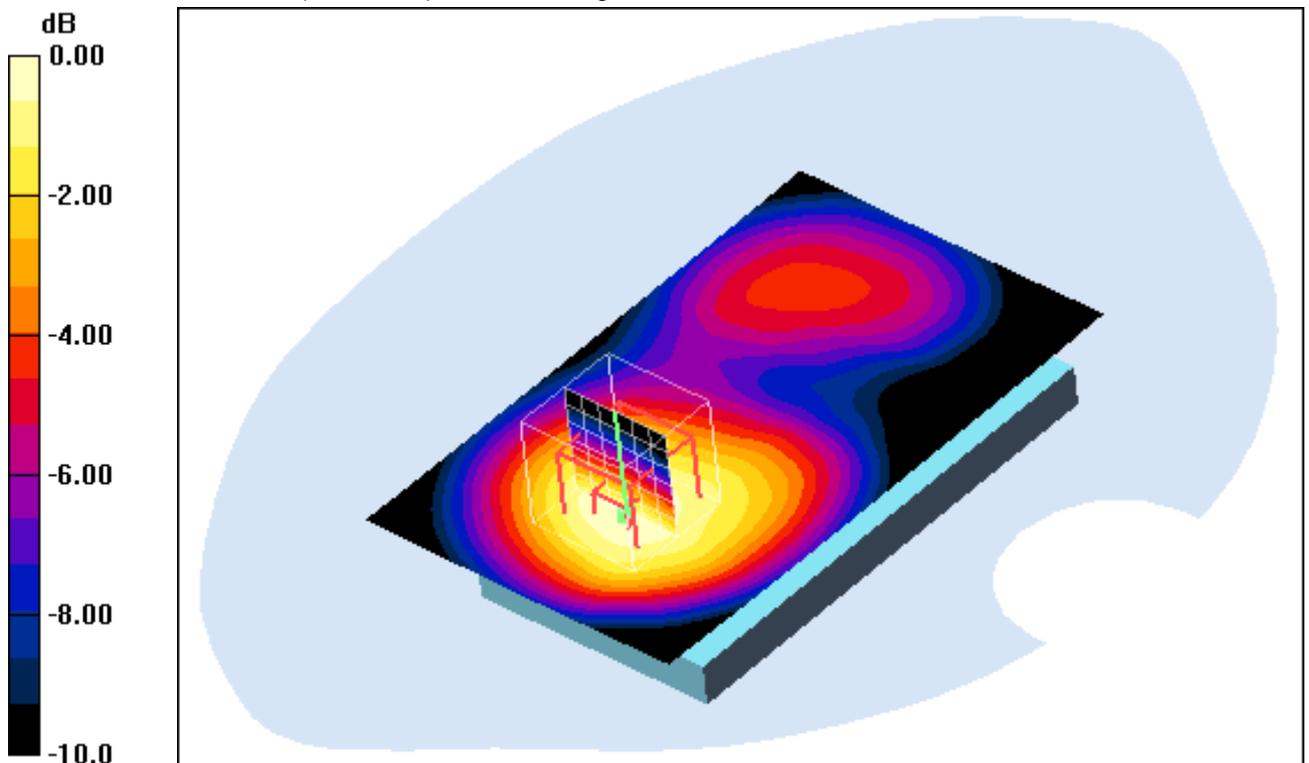
0 dB = 0.345mW/g

Additional information:
position or distance of DUT to SAM: 15 mm with headset
ambient temperature: 23.8°C; liquid temperature: 23.0°C

Annex B.7: UMTS WCDMA FDD V 850MHz head

Date/Time: 16.07.2012 11:30:08Date/Time: 16.07.2012 11:39:51

IEEE1528-LeftHandSide-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.892 mho/m; ε_r = 41.4; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.235 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x12x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.6 V/m; Power Drift = 0.027 dB
Peak SAR (extrapolated) = 0.266 W/kg
SAR(1 g) = 0.226 mW/g; SAR(10 g) = 0.175 mW/g
Maximum value of SAR (measured) = 0.238 mW/g

0 dB = 0.238mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 12:01:48Date/Time: 16.07.2012 12:09:51

IEEE1528-LeftHandSide-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.9 mho/m; ε_r = 41.3; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.281 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x12x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.1 V/m; Power Drift = -0.013 dB
Peak SAR (extrapolated) = 0.319 W/kg
SAR(1 g) = 0.268 mW/g; SAR(10 g) = 0.207 mW/g
Maximum value of SAR (measured) = 0.278 mW/g

0 dB = 0.278mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

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Date/Time: 16.07.2012 12:32:05Date/Time: 16.07.2012 12:40:34

IEEE1528-LeftHandSide-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.908 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.318 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.1 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 0.361 W/kg
SAR(1 g) = 0.303 mW/g; SAR(10 g) = 0.234 mW/g
Maximum value of SAR (measured) = 0.315 mW/g
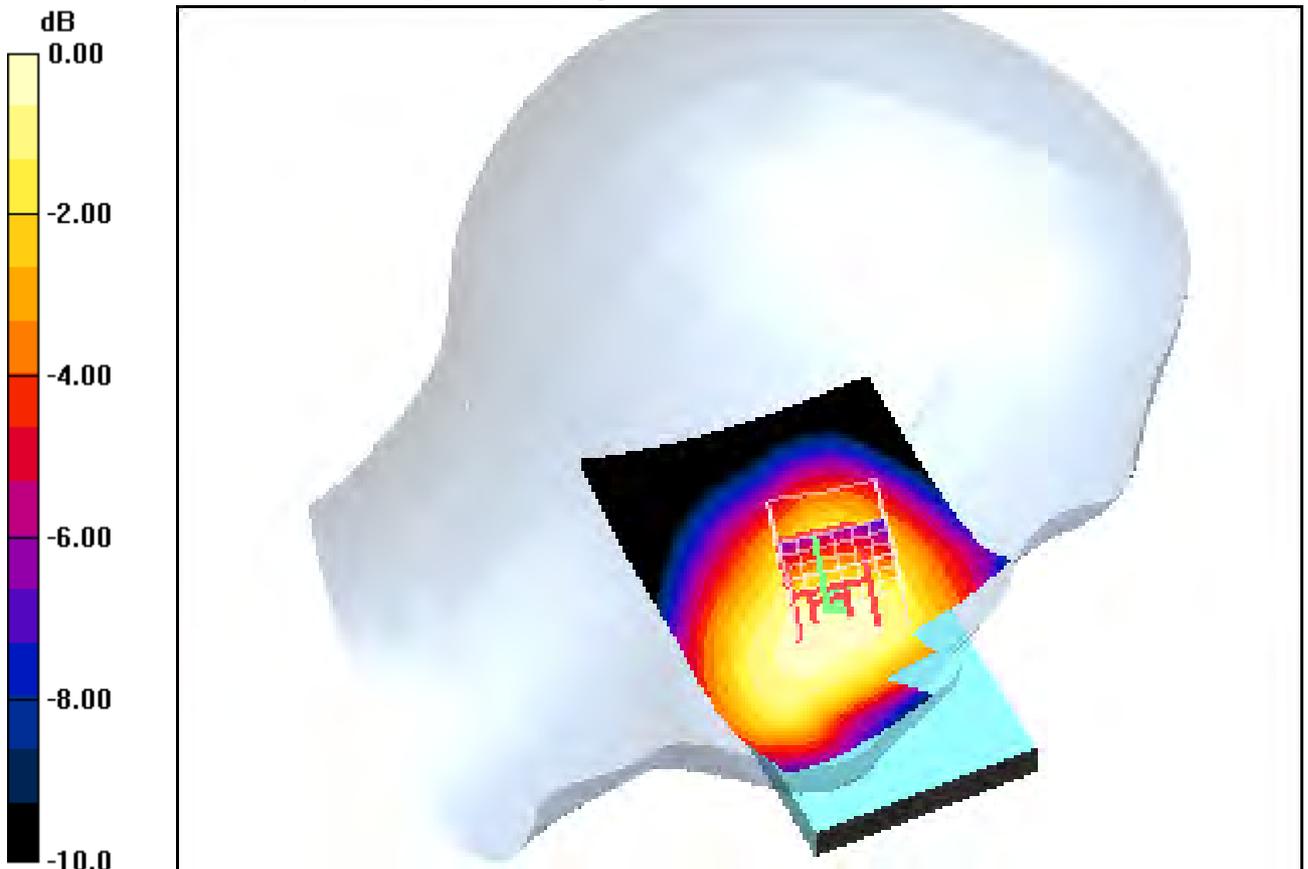
0 dB = 0.315mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 13:04:18Date/Time: 16.07.2012 13:12:27

IEEE1528-LeftHandSide-WCDMA FDD V
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.892 mho/m; ε_r = 41.4; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.133 mW/g

## Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.4 V/m; Power Drift = 0.029 dB
Peak SAR (extrapolated) = 0.148 W/kg
SAR(1 g) = 0.126 mW/g; SAR(10 g) = 0.098 mW/g
Maximum value of SAR (measured) = 0.131 mW/g

0 dB = 0.131mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 13:25:12Date/Time: 16.07.2012 13:34:45

IEEE1528-LeftHandSide-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.9 mho/m; $ε_r$ = 41.3; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.159 mW/g

## Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.5 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 0.175 W/kg
SAR(1 g) = 0.149 mW/g; SAR(10 g) = 0.116 mW/g
Maximum value of SAR (measured) = 0.155 mW/g

0 dB = 0.155mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

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Date/Time: 16.07.2012 13:47:50Date/Time: 16.07.2012 13:55:43

IEEE1528-LeftHandSide-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.908 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.183 mW/g

## Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.6 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.199 W/kg
SAR(1 g) = 0.170 mW/g; SAR(10 g) = 0.133 mW/g
Maximum value of SAR (measured) = 0.178 mW/g

0 dB = 0.178mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

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Date/Time: 16.07.2012 08:56:37Date/Time: 16.07.2012 09:04:35

IEEE1528-RightHandSide-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.892 mho/m; ε_r = 41.4; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.230 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.5 V/m; Power Drift = 0.017 dB
Peak SAR (extrapolated) = 0.247 W/kg
SAR(1 g) = 0.218 mW/g; SAR(10 g) = 0.172 mW/g
Maximum value of SAR (measured) = 0.227 mW/g
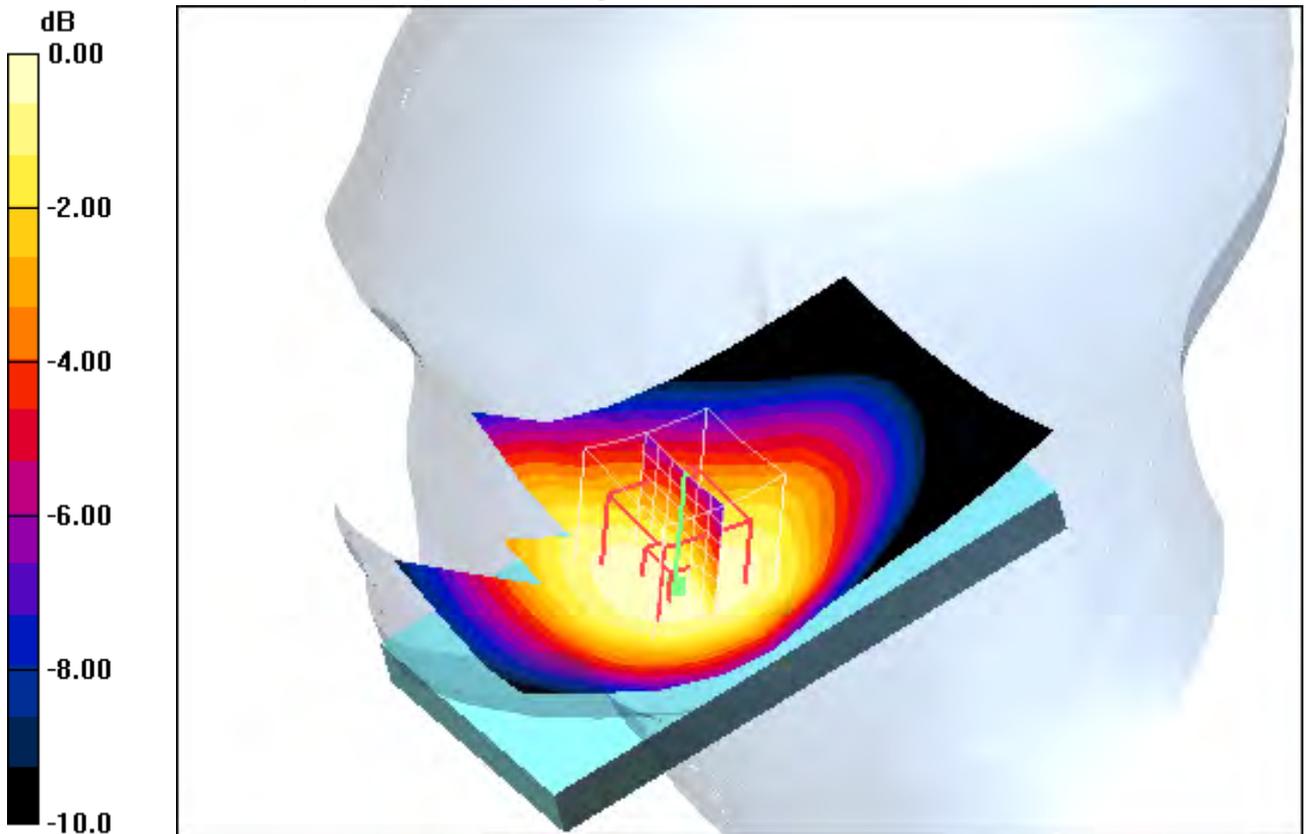
0 dB = 0.227mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 09:19:49Date/Time: 16.07.2012 09:26:17

IEEE1528-RightHandSide-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL900 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.9 mho/m; ε_r = 41.3; ρ = 1000 kg/m^3

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.289 mW/g

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

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

Reference Value = 18.7 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 0.326 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.218 mW/g

Maximum value of SAR (measured) = 0.290 mW/g
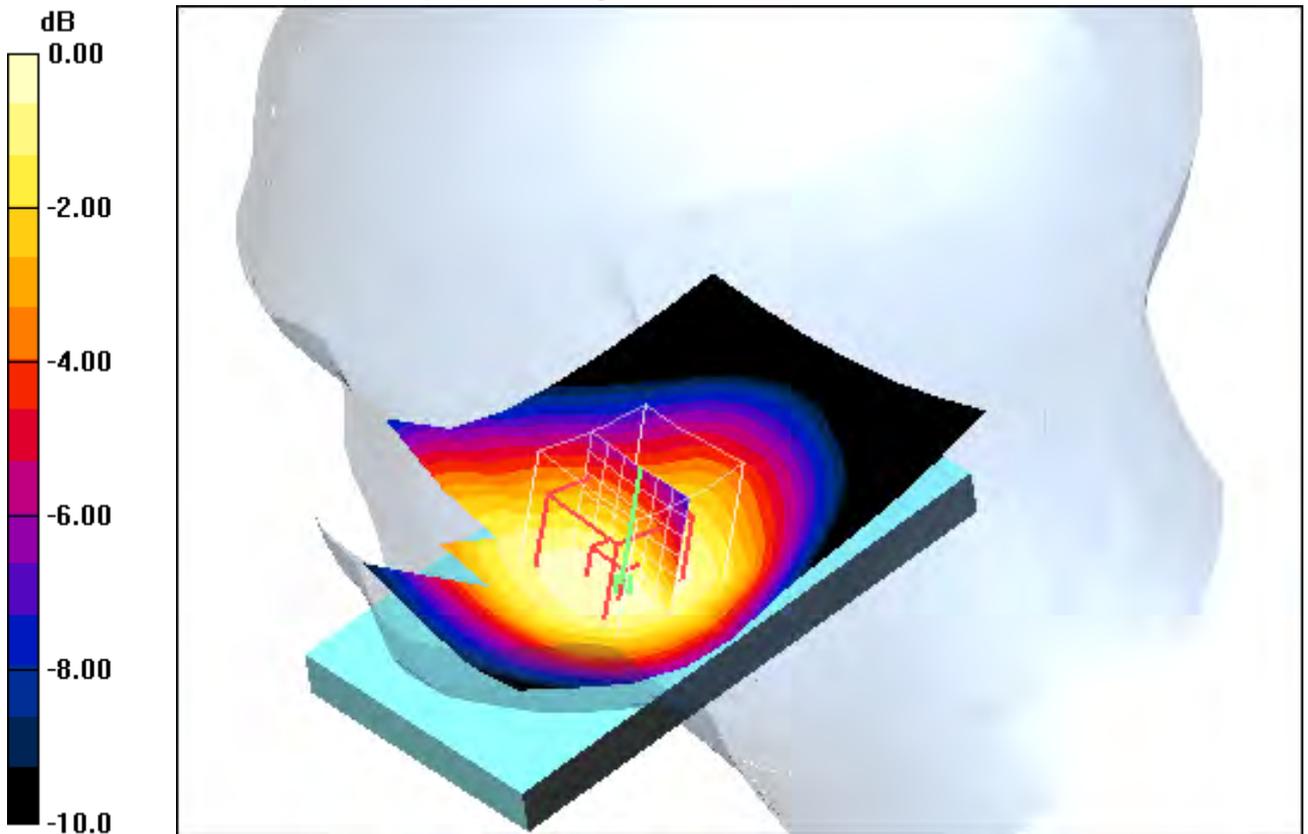
0 dB = 0.290mW/g

Additional information:

ambient temperature: 22.4°C; liquid temperature: 22.5°C

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Date/Time: 16.07.2012 09:40:07Date/Time: 16.07.2012 09:46:38

IEEE1528-RightHandSide-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.908 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.386 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.3 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.432 W/kg
SAR(1 g) = 0.365 mW/g; SAR(10 g) = 0.284 mW/g
Maximum value of SAR (measured) = 0.381 mW/g
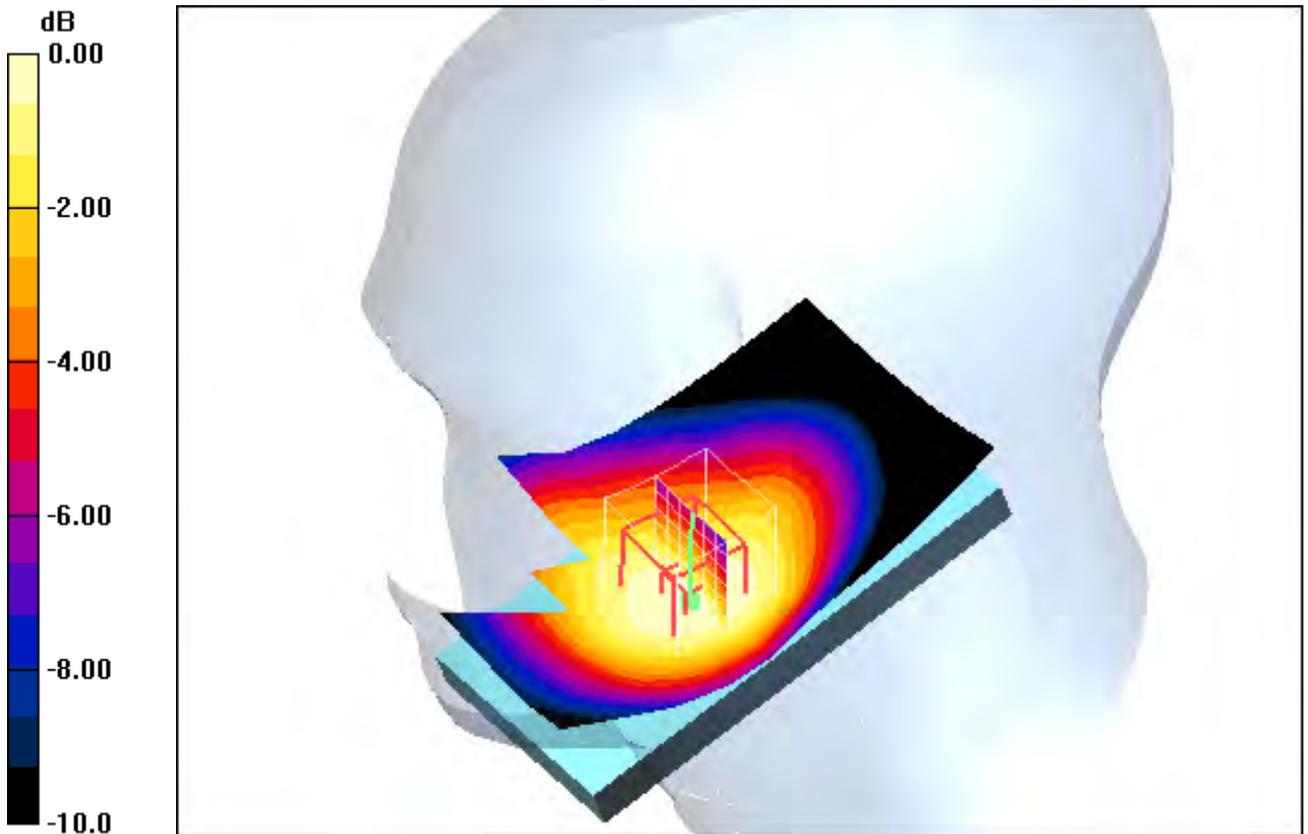
0 dB = 0.381mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 10:01:28Date/Time: 16.07.2012 10:09:19

IEEE1528-RightHandSide-WCDMA FDD V
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.892 mho/m; $ε_r$ = 41.4; ρ = 1000 kg/m³
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.101 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.9 V/m; Power Drift = 0.019 dB
Peak SAR (extrapolated) = 0.113 W/kg
SAR(1 g) = 0.097 mW/g; SAR(10 g) = 0.076 mW/g
Maximum value of SAR (measured) = 0.101 mW/g
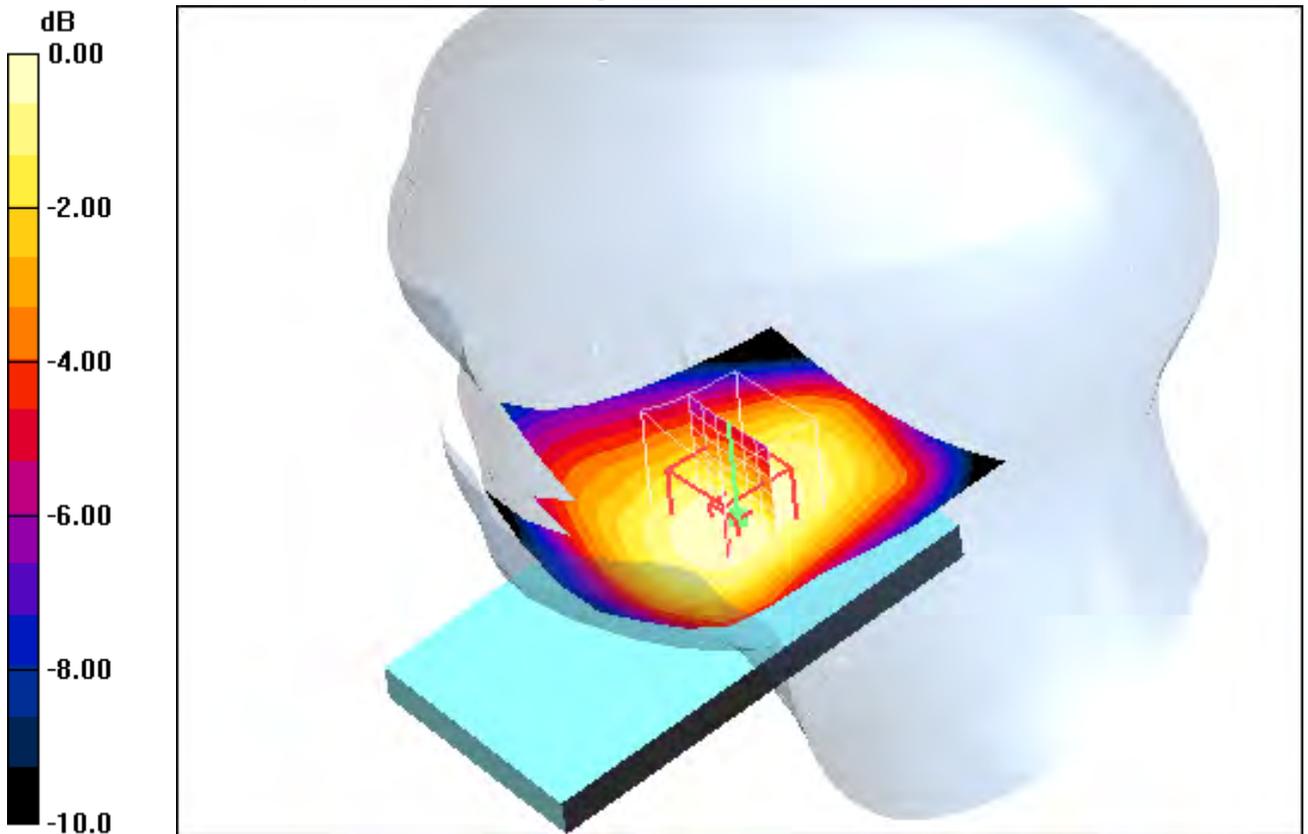
0 dB = 0.101mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

CETECOM™

Date/Time: 16.07.2012 10:23:11Date/Time: 16.07.2012 10:29:57

IEEE1528-RightHandSide-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.9 mho/m; ε_r = 41.3; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.124 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.0 V/m; Power Drift = 0.062 dB
Peak SAR (extrapolated) = 0.142 W/kg
SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.096 mW/g
Maximum value of SAR (measured) = 0.128 mW/g
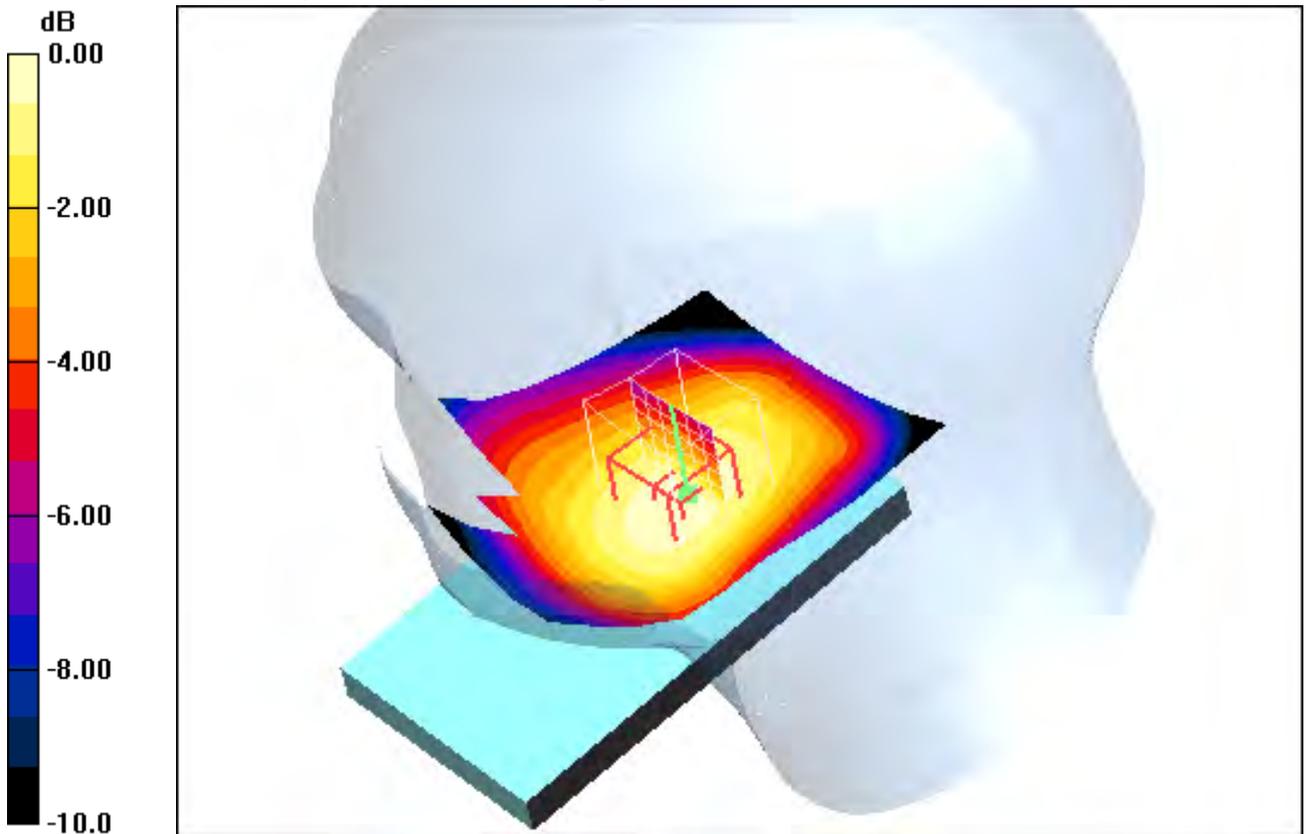
0 dB = 0.128mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Date/Time: 16.07.2012 10:43:12Date/Time: 16.07.2012 10:49:57

IEEE1528-RightHandSide-WCDMA FDD V
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: HSL900 Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.908 mho/m; ε_r = 41.1; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.95, 5.95, 5.95); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.170 mW/g

## Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.0 V/m; Power Drift = -0.017 dB
Peak SAR (extrapolated) = 0.190 W/kg
SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.128 mW/g
Maximum value of SAR (measured) = 0.170 mW/g
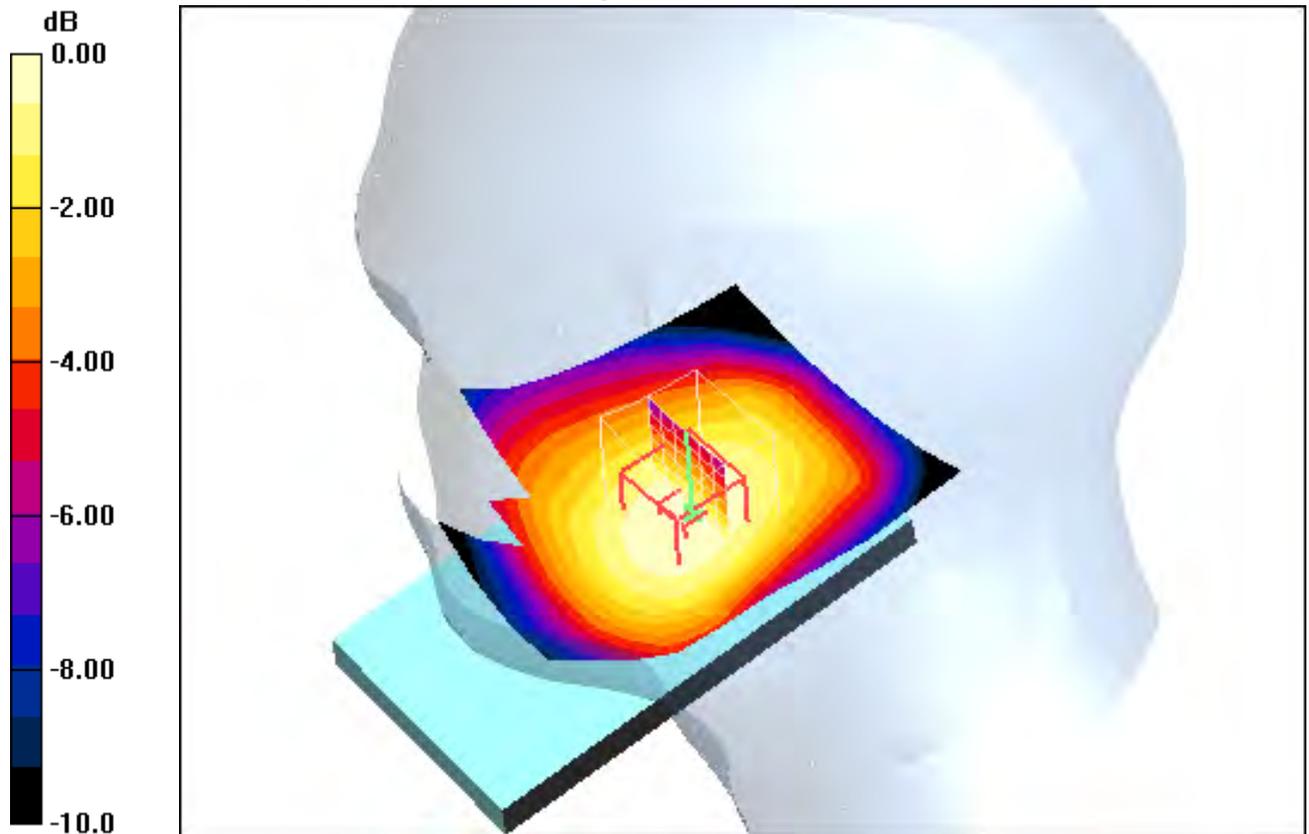
0 dB = 0.170mW/g

Additional information:
ambient temperature: 22.4°C; liquid temperature: 22.5°C

Annex B.8: UMTS WCDMA FDD V 850MHz body hotspot

Date/Time: 18.07.2012 12:08:23Date/Time: 18.07.2012 12:19:15

OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.972 mho/m; ε_r = 55; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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) = 0.445 mW/g

Front position - Low/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:

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

Reference Value = 22.1 V/m; Power Drift = 0.056 dB

Peak SAR (extrapolated) = 0.663 W/kg

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.306 mW/g

Maximum value of SAR (measured) = 0.479 mW/g
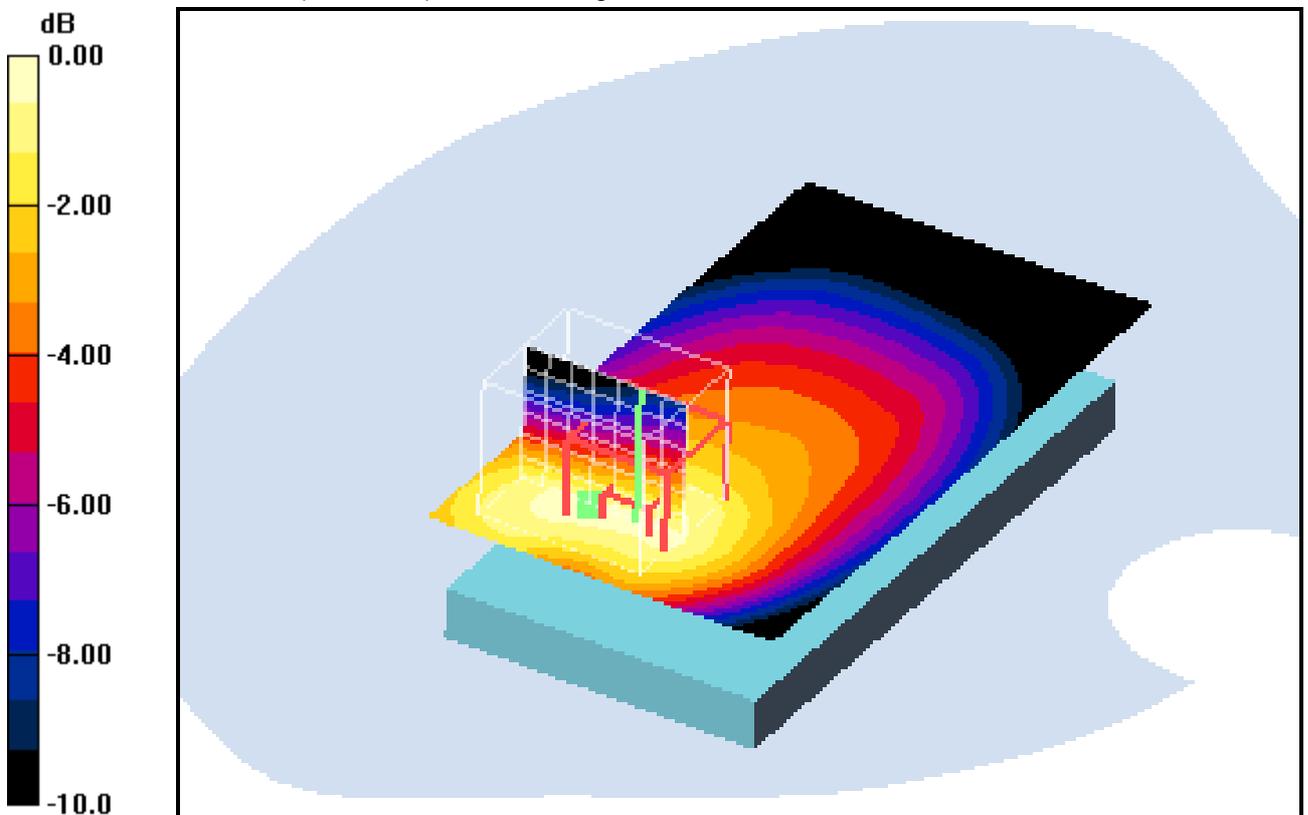
0 dB = 0.479mW/g

Additional information:

position or distance of DUT to SAM: with 10mm distance

ambient temperature: 22.9°C; liquid temperature: 22.8°C

Date/Time: 18.07.2012 11:44:19Date/Time: 18.07.2012 11:53:48

OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.98 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.526 mW/g

Front position - Middle/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.5 V/m; Power Drift = -0.088 dB
Peak SAR (extrapolated) = 0.701 W/kg
SAR(1 g) = 0.502 mW/g; SAR(10 g) = 0.349 mW/g
Maximum value of SAR (measured) = 0.543 mW/g
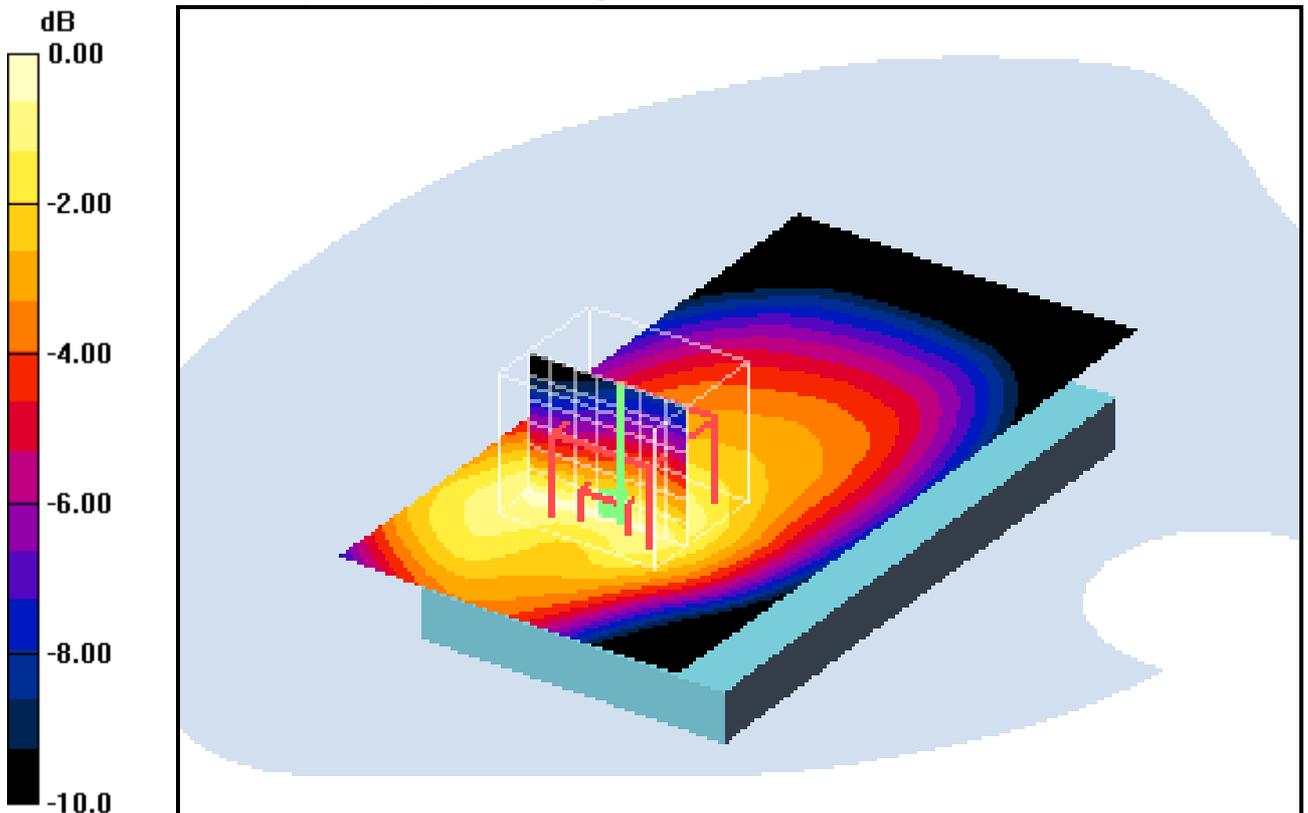
0 dB = 0.543mW/g

Additional information:
position or distance of DUT to SAM: with 10mm distance
ambient temperature: 22.9°C; liquid temperature: 22.8°C

Date/Time: 18.07.2012 11:18:37Date/Time: 18.07.2012 11:29:23

OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.996 mho/m; ε_r = 54.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.600 mW/g

Front position - High/Zoom Scan (7x7x7) 2 (7x8x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.1 V/m; Power Drift = 0.035 dB
Peak SAR (extrapolated) = 0.749 W/kg
SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.380 mW/g
Maximum value of SAR (measured) = 0.589 mW/g
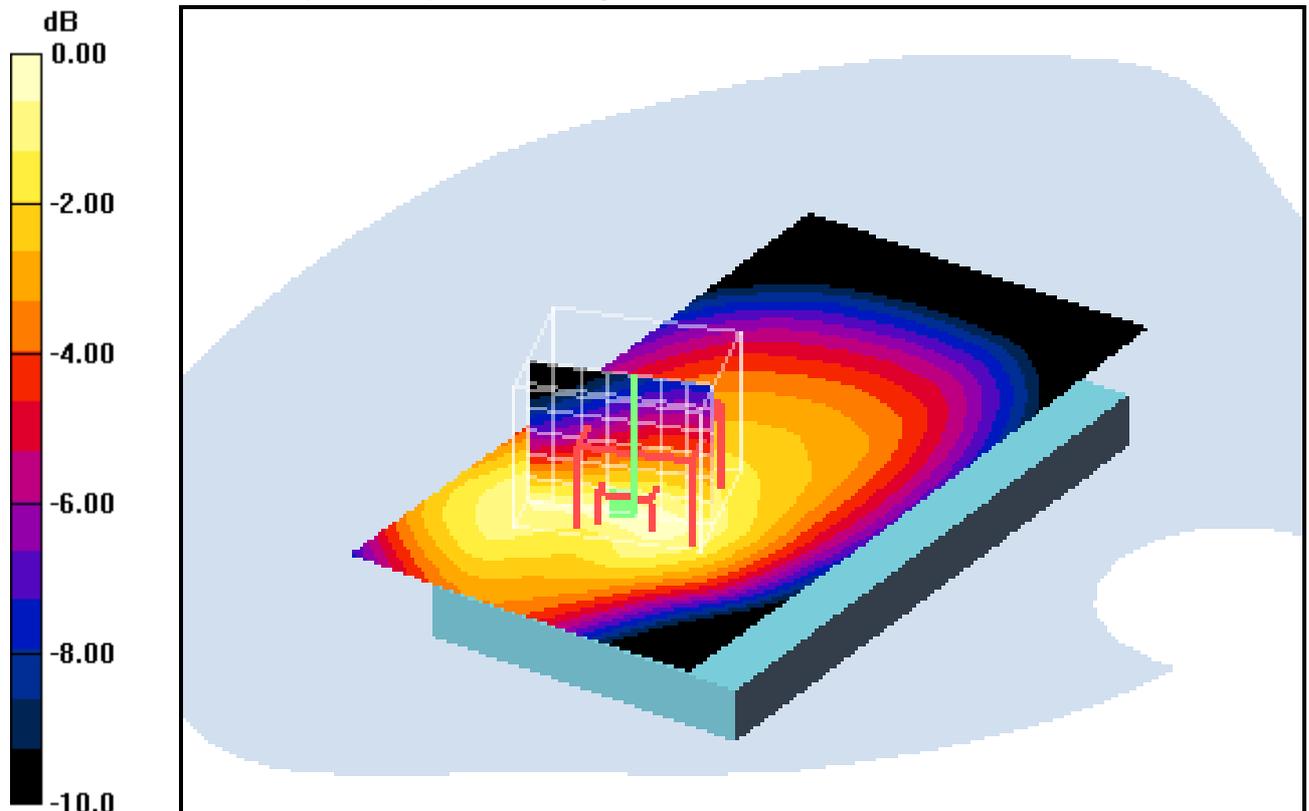
0 dB = 0.589mW/g

Additional information:
position or distance of DUT to SAM: with 10mm distance
ambient temperature: 22.9°C; liquid temperature: 22.8°C

Date/Time: 18.07.2012 08:34:26Date/Time: 18.07.2012 09:08:18

OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.972 mho/m; ε_r = 55; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.598 mW/g

Rear position - Low/Zoom Scan (7x7x7) (7x14x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.1 V/m; Power Drift = -0.064 dB
Peak SAR (extrapolated) = 0.966 W/kg
SAR(1 g) = 0.560 mW/g; SAR(10 g) = 0.379 mW/g
Maximum value of SAR (measured) = 0.613 mW/g
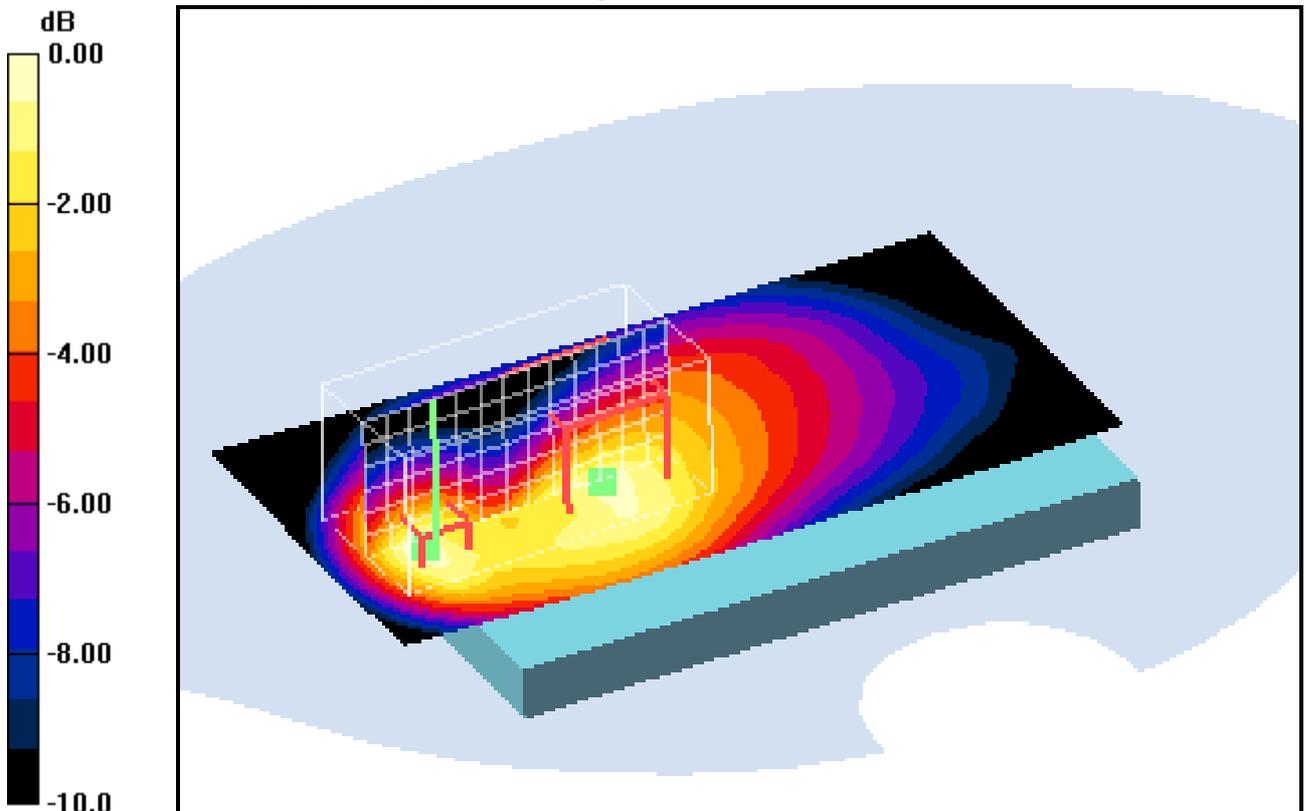
0 dB = 0.613mW/g

Additional information:
position or distance of DUT to SAM: with 10mm distance
ambient temperature: 22.9°C; liquid temperature: 22.8°C

Date/Time: 18.07.2012 09:32:42Date/Time: 18.07.2012 09:42:48Date/Time: 18.07.2012 09:56:38

OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.98 mho/m; $ε_r$ = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.672 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x9x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.0 V/m; Power Drift = 0.022 dB
Peak SAR (extrapolated) = 0.909 W/kg
SAR(1 g) = 0.648 mW/g; SAR(10 g) = 0.455 mW/g
Maximum value of SAR (measured) = 0.697 mW/g

Rear position - Middle/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.0 V/m; Power Drift = 0.022 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.651 mW/g; SAR(10 g) = 0.355 mW/g
Maximum value of SAR (measured) = 0.707 mW/g
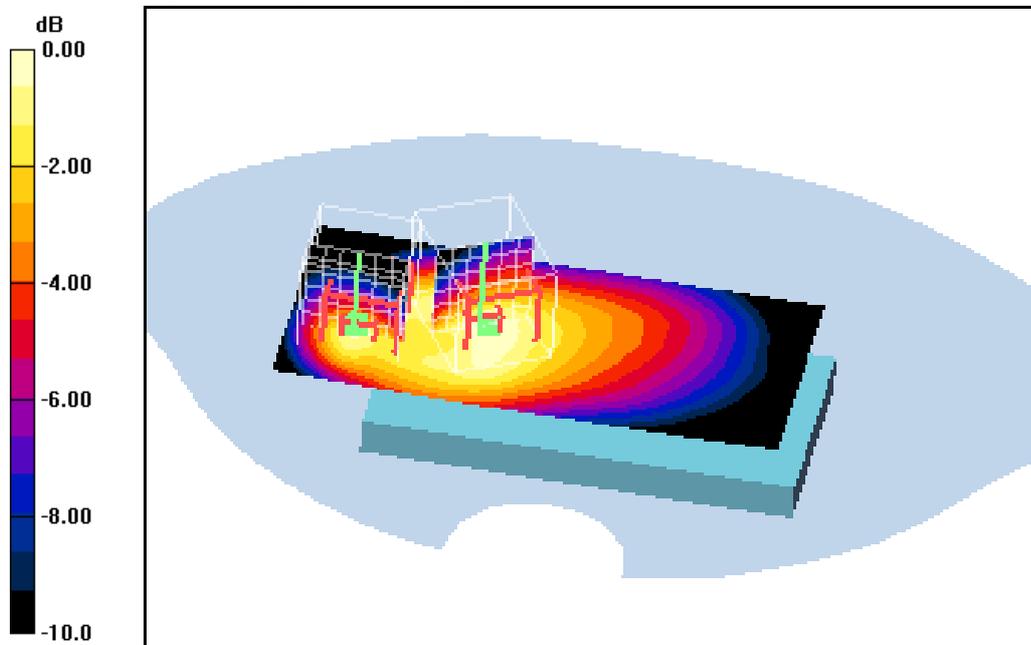
0 dB = 0.707mW/g

Additional information:
position or distance of DUT to SAM: with 10mm distance
ambient temperature: 22.9°C; liquid temperature: 22.8°C

Date/Time: 18.07.2012 10:10:04Date/Time: 18.07.2012 10:17:58Date/Time: 18.07.2012 10:31:49

OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.996 mho/m; ε_r = 54.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.860 mW/g

## Rear position - High/Zoom Scan (7x7x7) (7x9x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.9 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.828 mW/g; SAR(10 g) = 0.582 mW/g
Maximum value of SAR (measured) = 0.888 mW/g

## Rear position - High/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.9 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 0.781 mW/g; SAR(10 g) = 0.428 mW/g
Maximum value of SAR (measured) = 0.845 mW/g

0 dB = 0.845mW/g

Additional information:
position or distance of DUT to SAM: with 10mm distance
ambient temperature: 22.9°C; liquid temperature: 22.8°C

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OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.98 mho/m; $ε_r$ = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge left position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.141 mW/g

Edge left position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.0 V/m; Power Drift = -0.024 dB
Peak SAR (extrapolated) = 0.186 W/kg
SAR(1 g) = 0.111 mW/g; SAR(10 g) = 0.066 mW/g
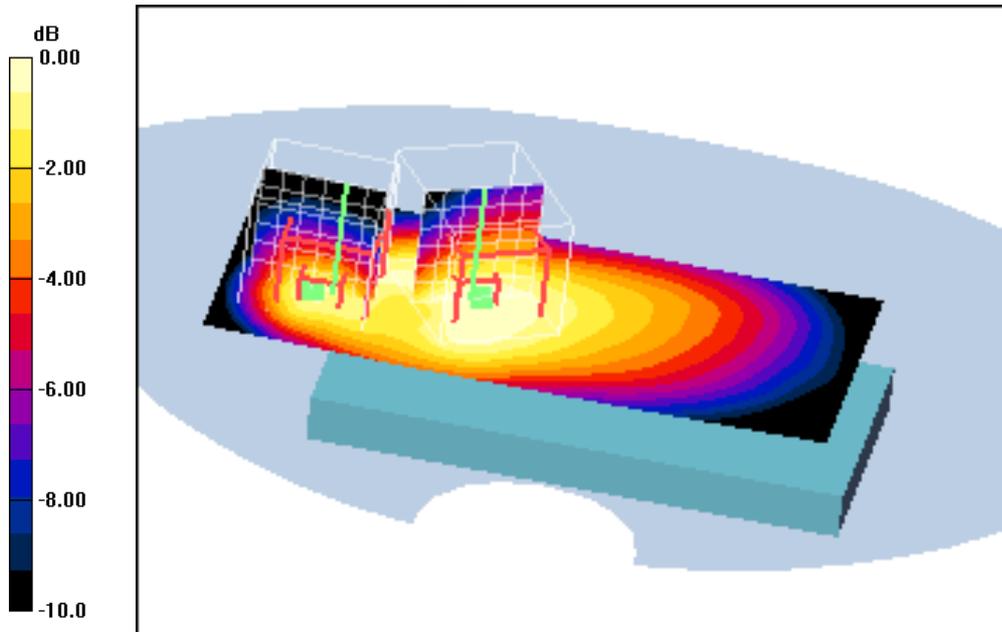Maximum value of SAR (measured) = 0.123 mW/g
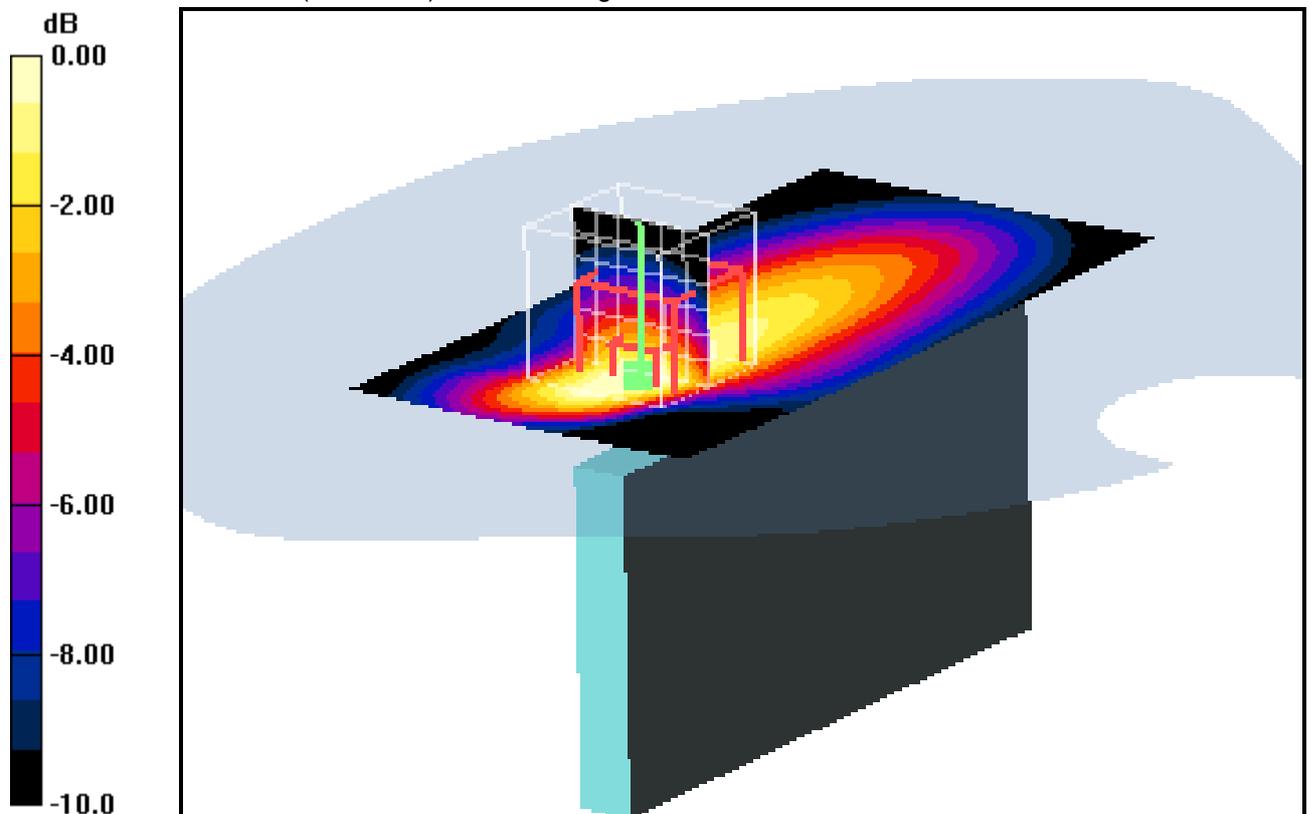
0 dB = 0.123mW/g

Additional information:
position or distance of DUT to SAM: with 10mm distance
ambient temperature: 22.9°C; liquid temperature: 22.8°C

Date/Time: 18.07.2012 13:21:10Date/Time: 18.07.2012 13:29:03

OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.98 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge right position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.244 mW/g

Edge right position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.5 V/m; Power Drift = -0.034 dB
Peak SAR (extrapolated) = 0.307 W/kg
SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.158 mW/g
Maximum value of SAR (measured) = 0.241 mW/g
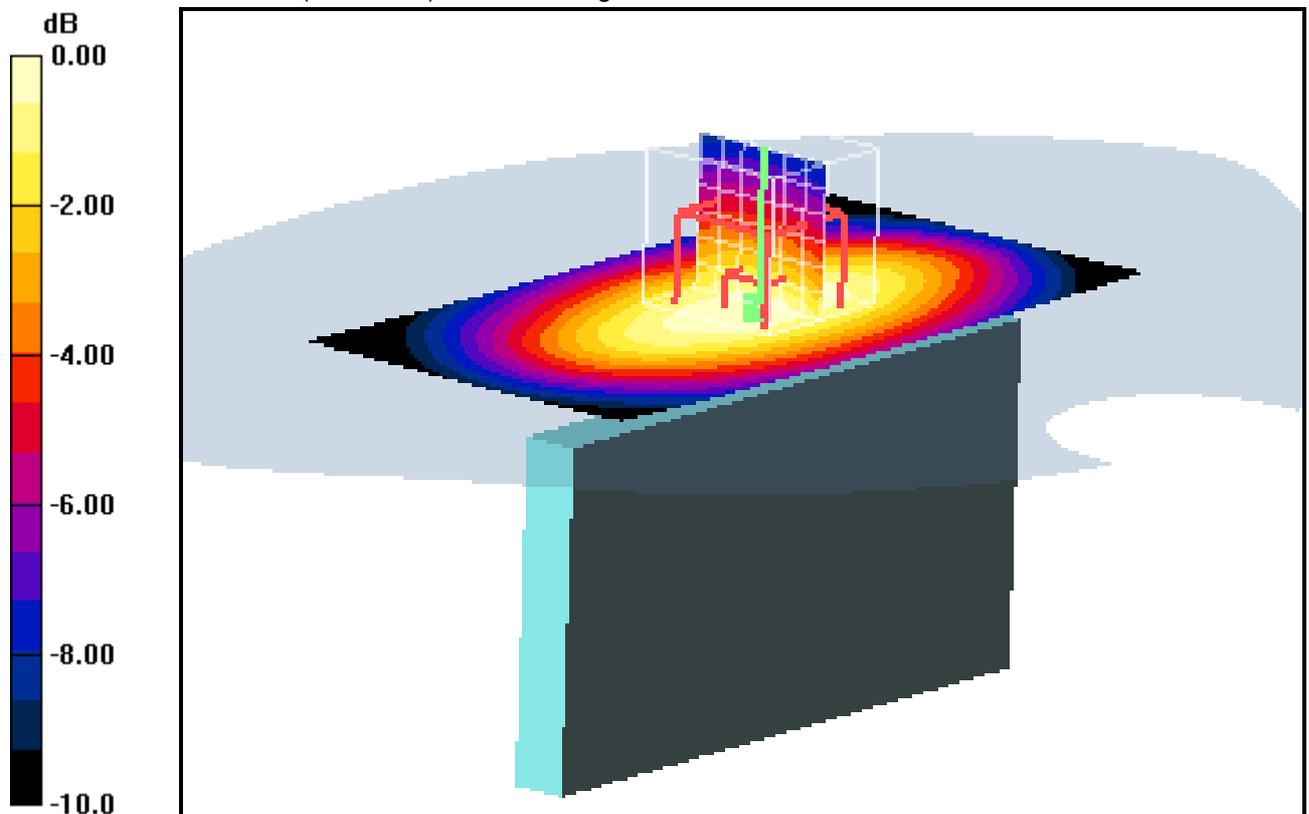
0 dB = 0.241mW/g

Additional information:
position or distance of DUT to SAM: with 10mm distance
ambient temperature: 22.9°C; liquid temperature: 22.8°C

Date/Time: 18.07.2012 12:37:17Date/Time: 18.07.2012 12:45:18

OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium: M900 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.98 mho/m; $ε_r$ = 54.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - Middle/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.430 mW/g

Edge bottom position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.7 V/m; Power Drift = -0.129 dB
Peak SAR (extrapolated) = 0.702 W/kg
SAR(1 g) = 0.355 mW/g; SAR(10 g) = 0.185 mW/g
Maximum value of SAR (measured) = 0.395 mW/g
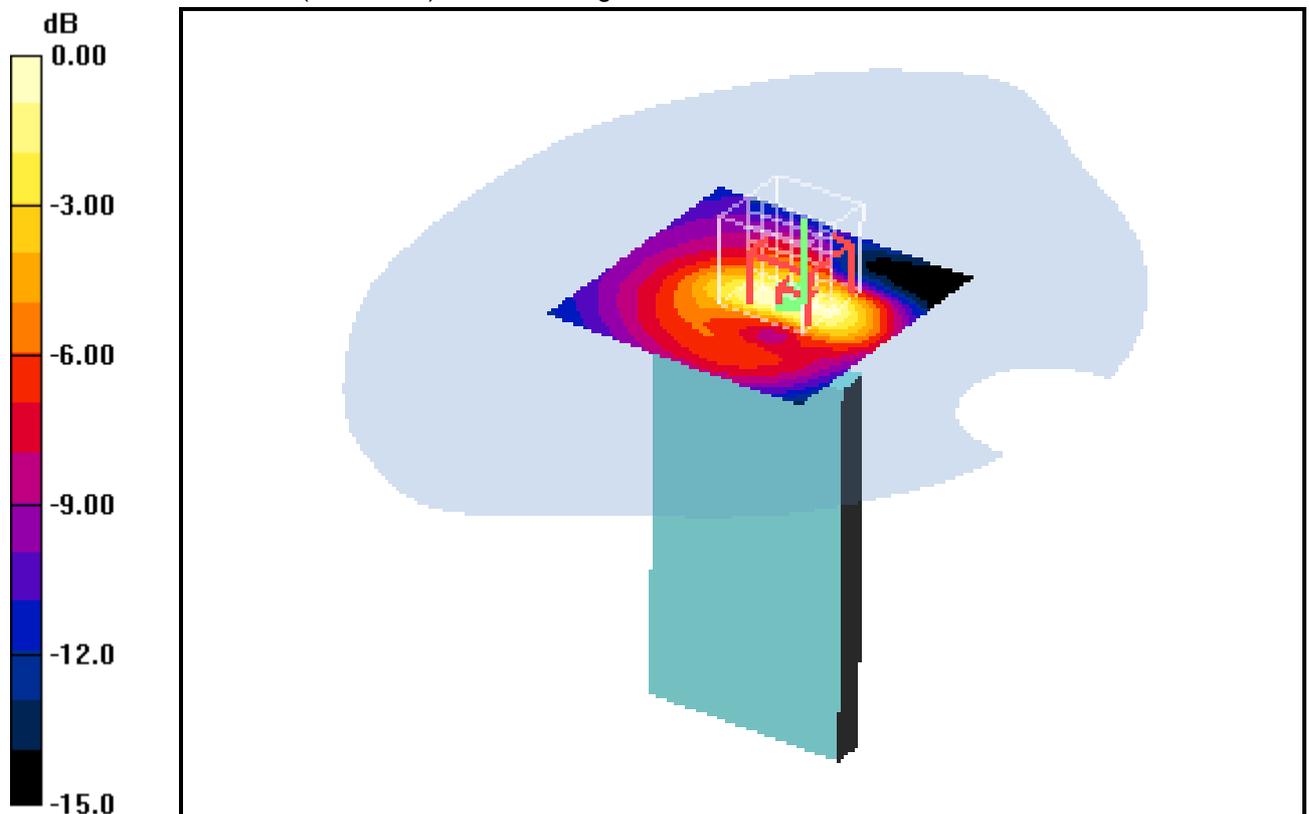
0 dB = 0.395mW/g

Additional information:
position or distance of DUT to SAM: with 10mm distance
ambient temperature: 22.9°C; liquid temperature: 22.8°C

Date/Time: 18.07.2012 13:47:14Date/Time: 18.07.2012 13:57:27Date/Time: 18.07.2012 14:11:25

OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.996 mho/m; ε_r = 54.7; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High WC/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.793 mW/g

## Rear position - High WC/Zoom Scan (7x7x7) (7x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.9 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 0.988 W/kg

SAR(1 g) = 0.750 mW/g; SAR(10 g) = 0.530 mW/g

Maximum value of SAR (measured) = 0.805 mW/g

Rear position - High WC/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.9 V/m; Power Drift = -0.043 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 0.674 mW/g; SAR(10 g) = 0.374 mW/g

Maximum value of SAR (measured) = 0.736 mW/g

0 dB = 0.736mW/g

Additional information:

position or distance of DUT to SAM: with 10mm distance

ambient temperature: 22.9°C; liquid temperature: 22.8°C

Annex B.9: UMTS WCDMA FDD V 850MHz body worn

Date/Time: 18.07.2012 14:29:33Date/Time: 18.07.2012 14:40:32Date/Time: 18.07.2012 14:54:33

OET65-Body-WCDMA FDD V

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: M900 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.98 mho/m; ε_r = 54.8; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(5.85, 5.85, 5.85); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle 15mm/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.412 mW/g

## Rear position - Middle 15mm/Zoom Scan (7x7x7) (7x9x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.3 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.548 W/kg

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.268 mW/g

Maximum value of SAR (measured) = 0.407 mW/g

Rear position - Middle 15mm/Zoom Scan (7x7x7) 2 (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.3 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.651 W/kg

SAR(1 g) = 0.399 mW/g; SAR(10 g) = 0.232 mW/g

Maximum value of SAR (measured) = 0.441 mW/g

0 dB = 0.441mW/g
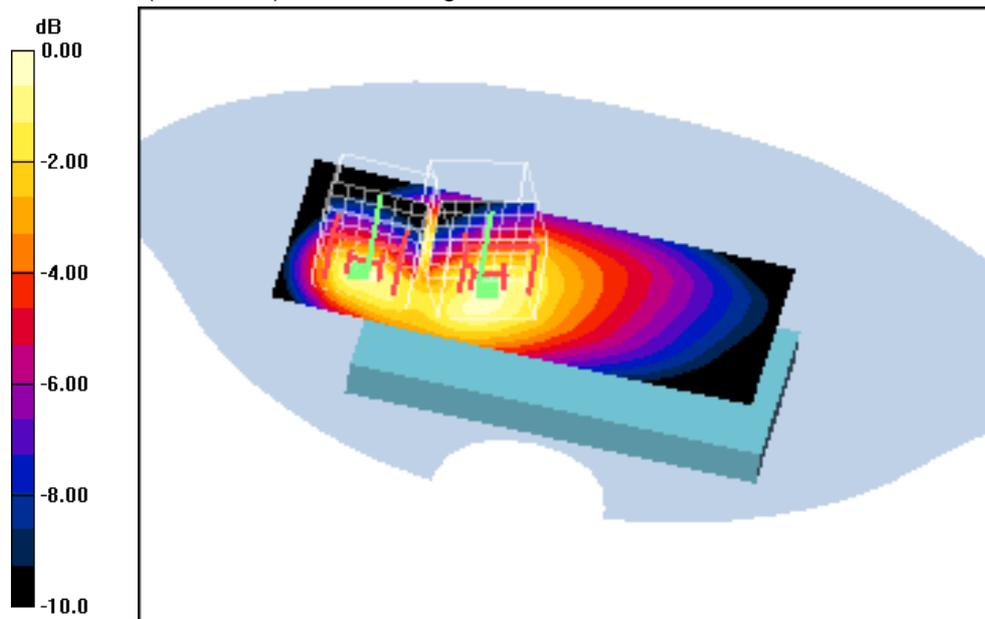
Additional information:

position or distance of DUT to SAM: with 15mm distance and headset

ambient temperature: 22.9°C; liquid temperature: 22.8°C

Annex B.10: UMTS WCDMA FDD IV 1700MHz head

Date/Time: 04.07.2012 16:11:05Date/Time: 04.07.2012 16:23:17

EN62209-LeftHandSide-WCDMA FDD IV
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.35 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.320 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x8x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.7 V/m; Power Drift = 0.036 dB
Peak SAR (extrapolated) = 0.375 W/kg
SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.209 mW/g
Maximum value of SAR (measured) = 0.313 mW/g
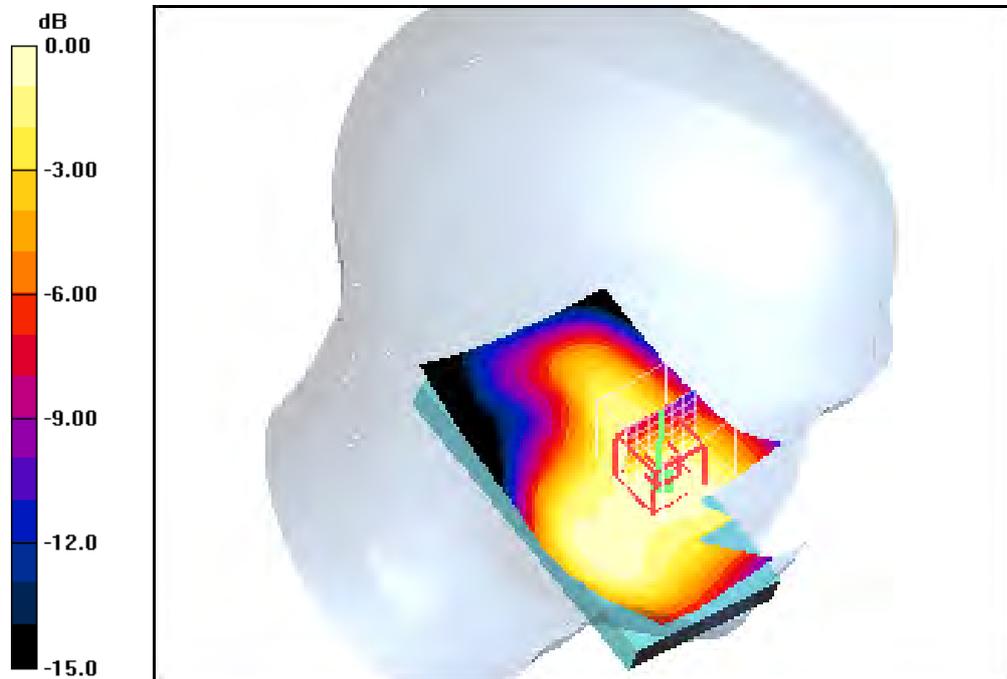
0 dB = 0.313mW/g

Additional information:
ambient temperature: 23.5°C; liquid temperature: 23.3°C

Date/Time: 04.07.2012 16:40:29Date/Time: 04.07.2012 16:48:50

EN62209-LeftHandSide-WCDMA FDD IV
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.37 mho/m; $ε_r$ = 40.1; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.402 mW/g

## Touch position - Middle/Zoom Scan (7x7x7) (7x8x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.4 V/m; Power Drift = 0.044 dB
Peak SAR (extrapolated) = 0.518 W/kg
SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.242 mW/g
Maximum value of SAR (measured) = 0.388 mW/g
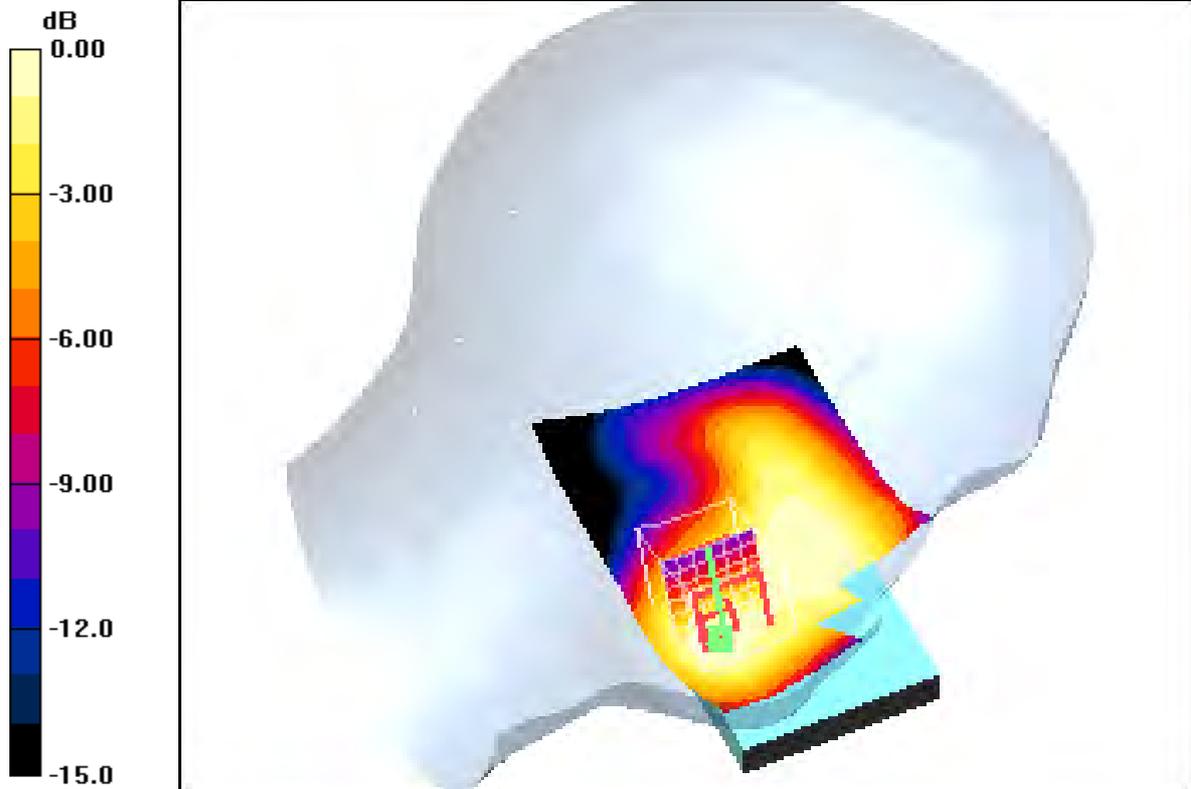
0 dB = 0.388mW/g

Additional information:
ambient temperature: 23.5°C; liquid temperature: 23.3°C

Date/Time: 04.07.2012 17:05:47Date/Time: 04.07.2012 17:15:40

EN62209-LeftHandSide-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.39 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.420 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x8x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.9 V/m; Power Drift = -0.060 dB
Peak SAR (extrapolated) = 0.555 W/kg
SAR(1 g) = 0.391 mW/g; SAR(10 g) = 0.257 mW/g
Maximum value of SAR (measured) = 0.418 mW/g
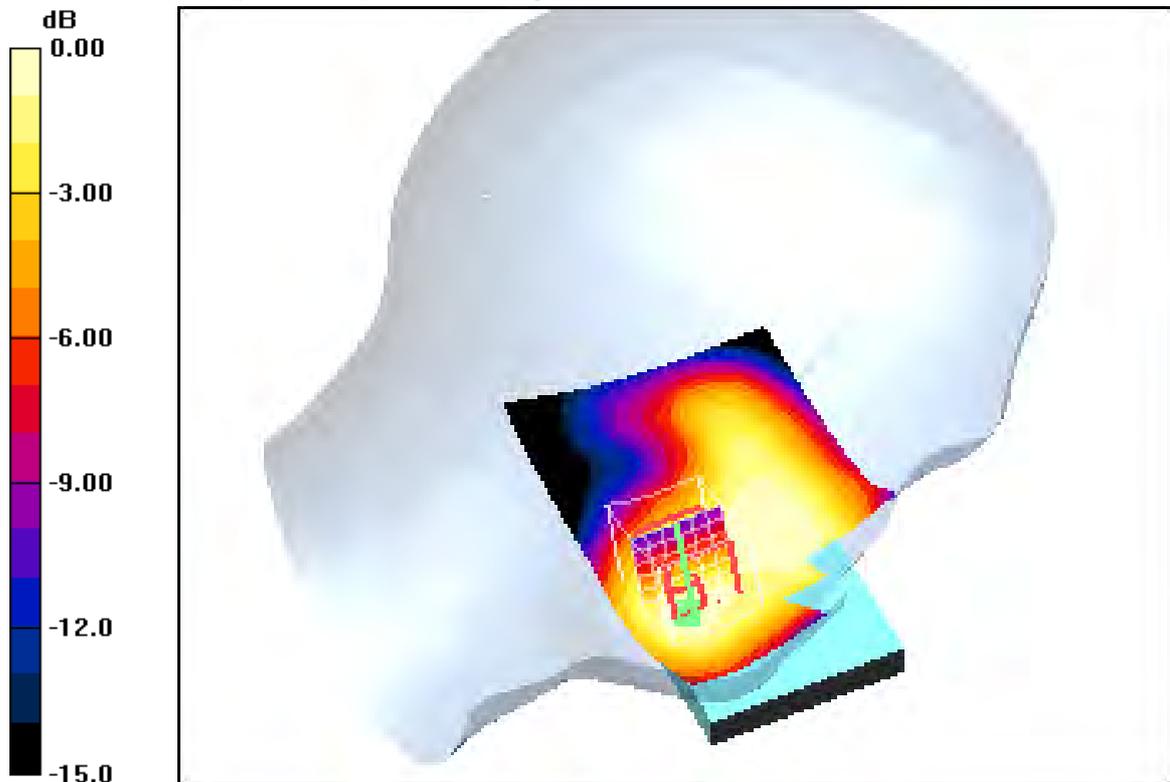
0 dB = 0.418mW/g

Additional information:
ambient temperature: 23.5°C; liquid temperature: 23.3°C

Date/Time: 04.07.2012 17:32:37Date/Time: 04.07.2012 17:41:30

EN62209-LeftHandSide-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.35 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.267 mW/g

## Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.7 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.321 W/kg
SAR(1 g) = 0.231 mW/g; SAR(10 g) = 0.146 mW/g
Maximum value of SAR (measured) = 0.249 mW/g
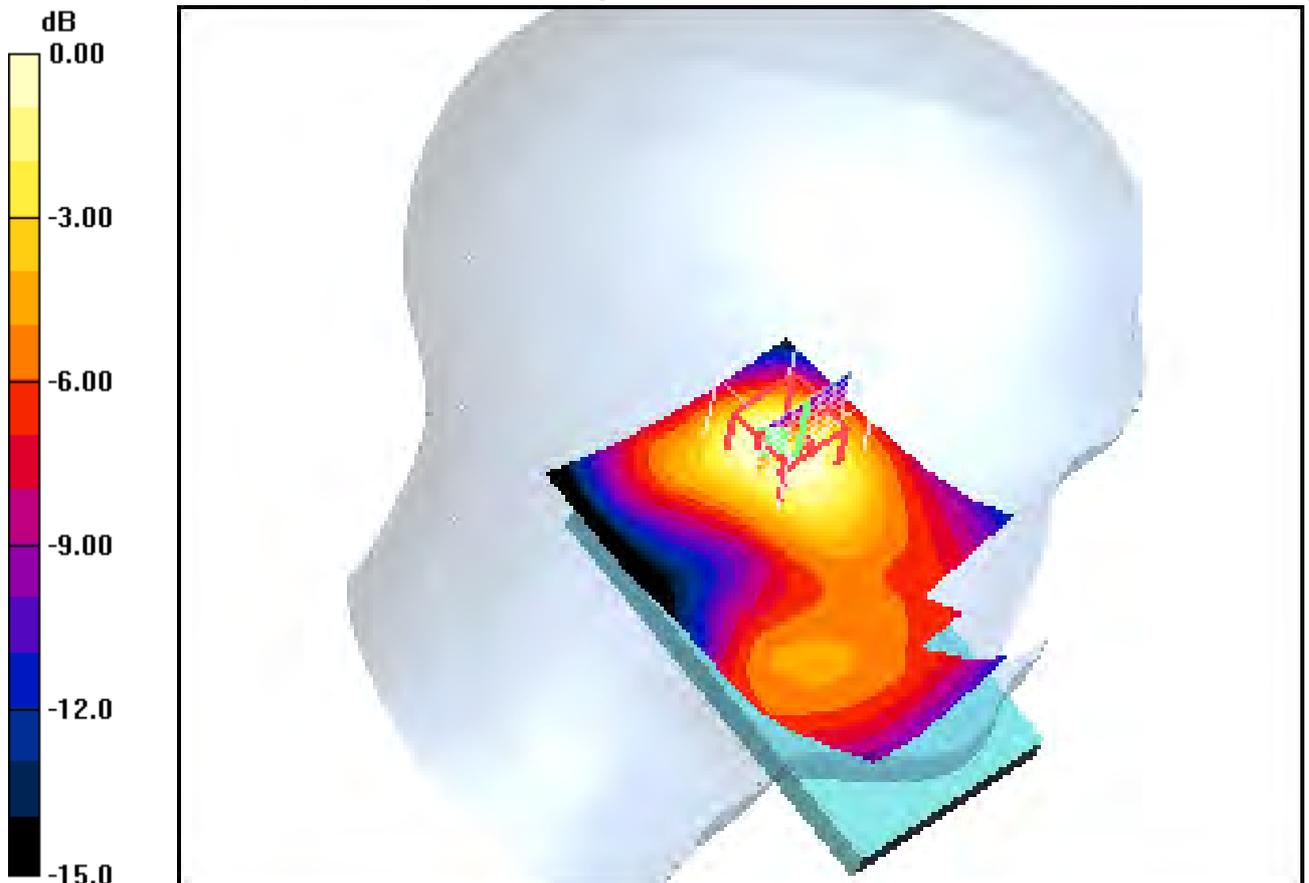
0 dB = 0.249mW/g

Additional information:
ambient temperature: 23.5°C; liquid temperature: 23.3°C

Date/Time: 05.07.2012 09:09:26Date/Time: 05.07.2012 09:18:01

EN62209-LeftHandSide-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.37 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
aximum value of SAR (interpolated) = 0.252 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.1 V/m; Power Drift = 0.033 dB
Peak SAR (extrapolated) = 0.294 W/kg
SAR(1 g) = 0.217 mW/g; SAR(10 g) = 0.138 mW/g
Maximum value of SAR (measured) = 0.235 mW/g
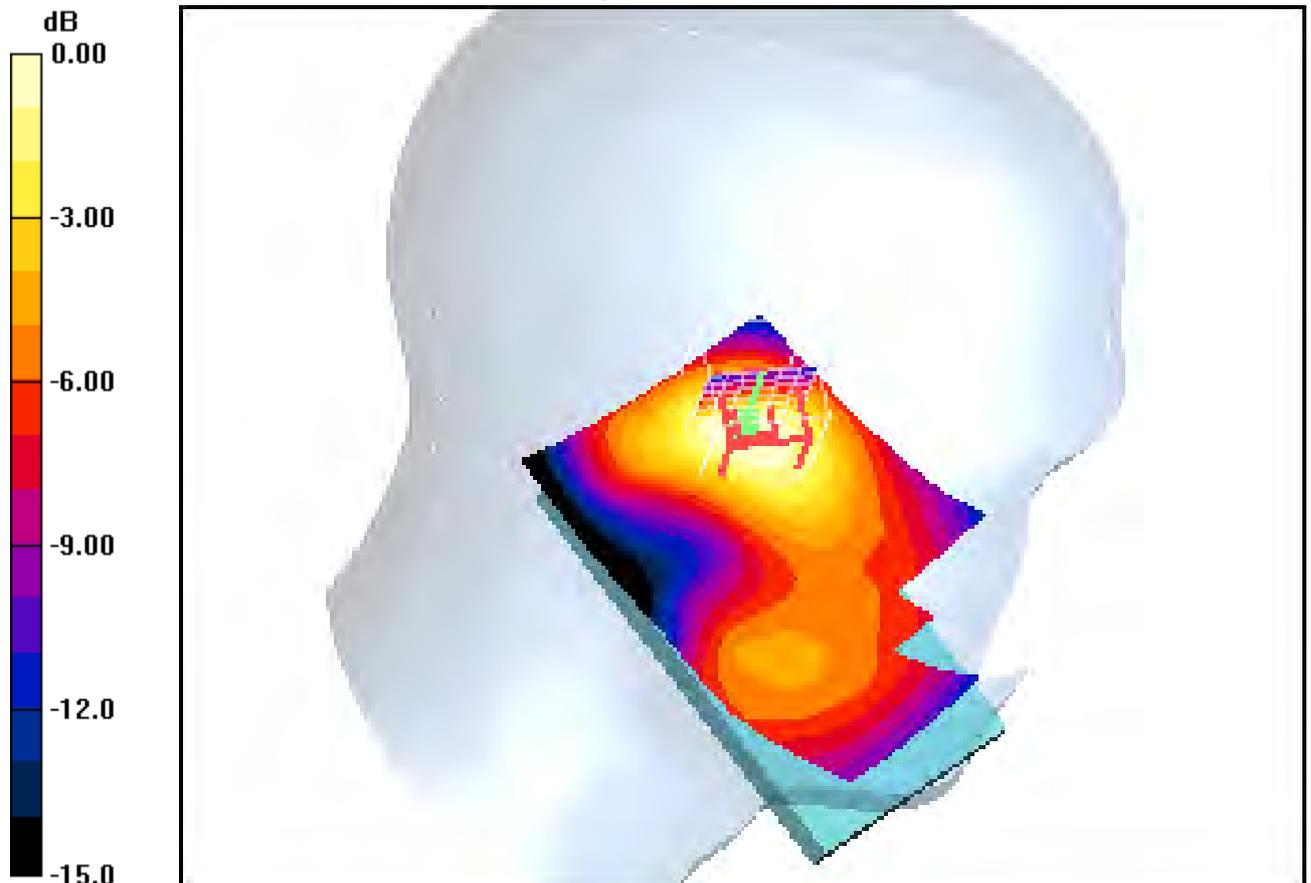
0 dB = 0.235mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.6°C

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EN62209-LeftHandSide-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.39 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.258 mW/g

Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.1 V/m; Power Drift = 0.049 dB
Peak SAR (extrapolated) = 0.311 W/kg
SAR(1 g) = 0.225 mW/g; SAR(10 g) = 0.142 mW/g
Maximum value of SAR (measured) = 0.248 mW/g
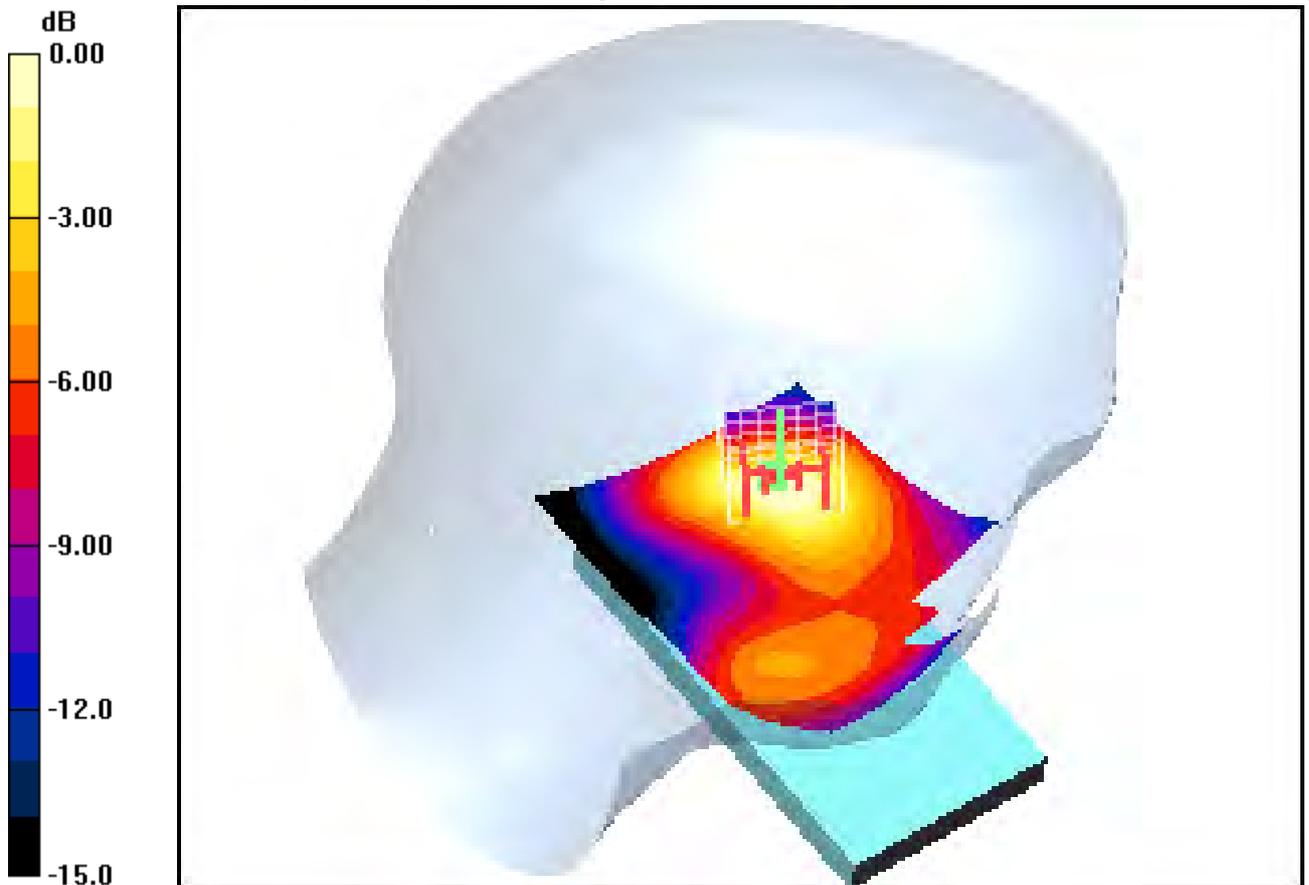
0 dB = 0.248mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.6°C

Date/Time: 05.07.2012 11:03:29Date/Time: 05.07.2012 11:11:46

EN62209-RightHandSide-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.35 mho/m; $ε_r$ = 40.2; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.493 mW/g

## Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.0 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.595 W/kg
SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.308 mW/g
Maximum value of SAR (measured) = 0.494 mW/g
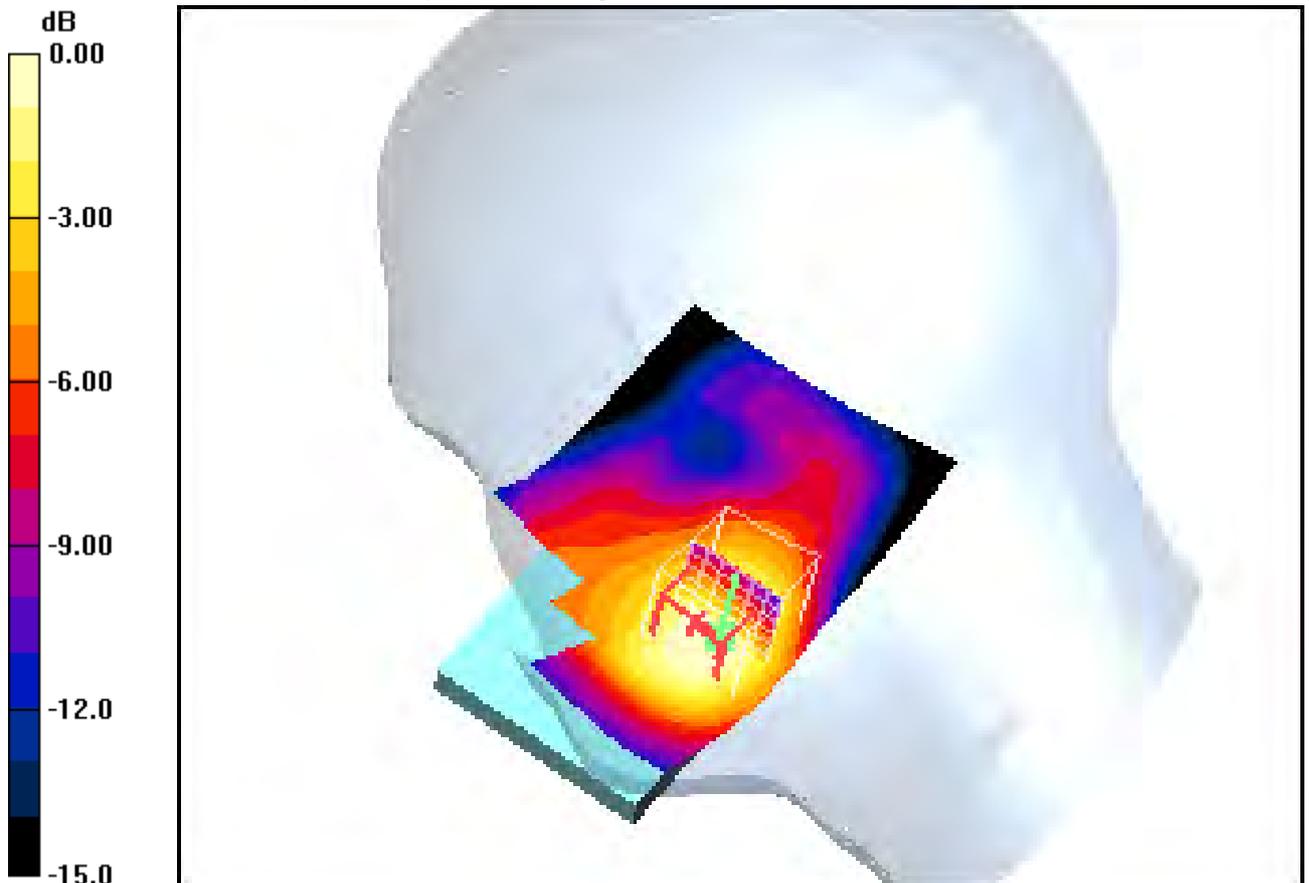
0 dB = 0.494mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.6°C

Date/Time: 05.07.2012 11:30:10Date/Time: 05.07.2012 11:37:20

EN62209-RightHandSide-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.37 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.626 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.2 V/m; Power Drift = -0.078 dB
Peak SAR (extrapolated) = 0.729 W/kg
SAR(1 g) = 0.563 mW/g; SAR(10 g) = 0.379 mW/g
Maximum value of SAR (measured) = 0.615 mW/g
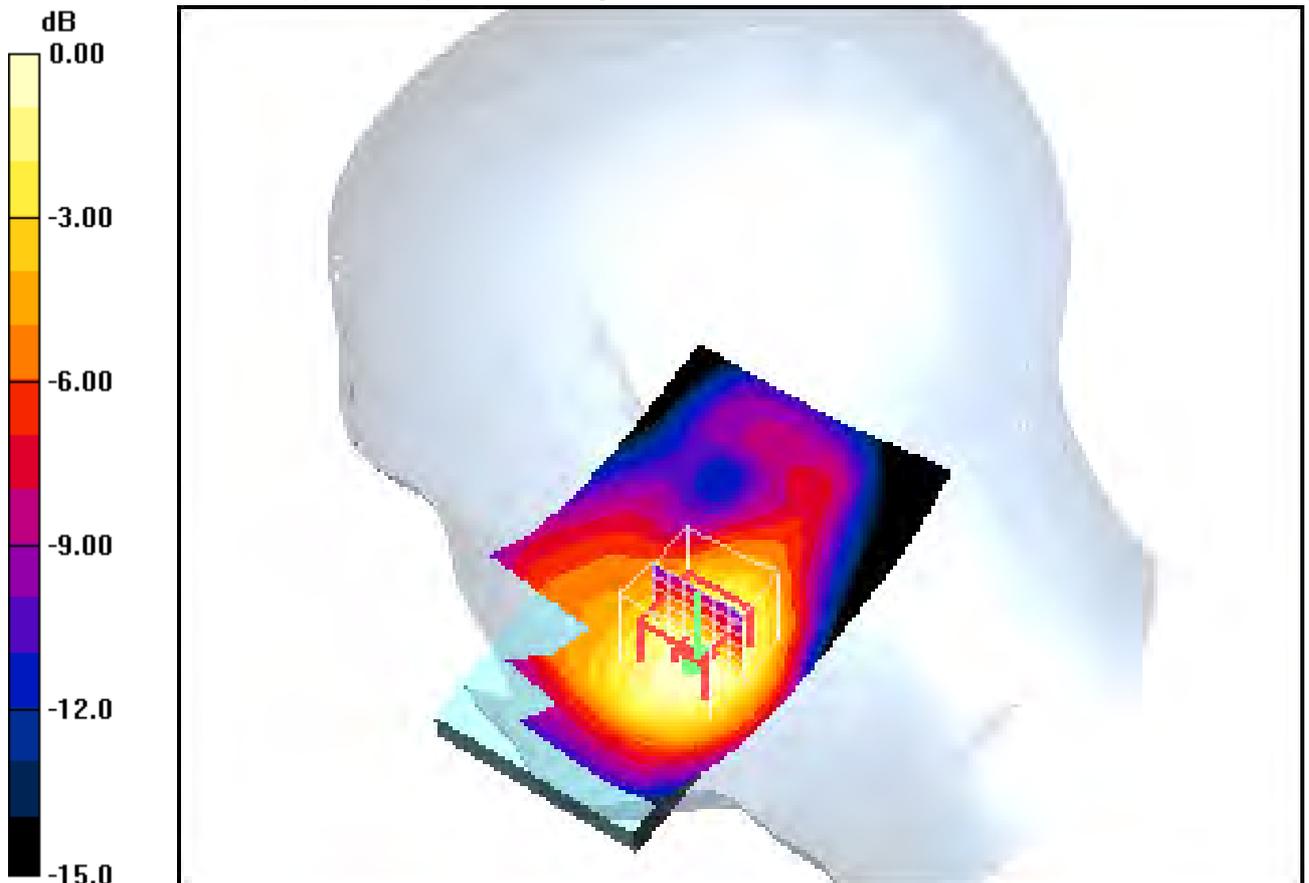
0 dB = 0.615mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.6°C

Date/Time: 05.07.2012 12:01:39Date/Time: 05.07.2012 12:10:05

EN62209-RightHandSide-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.39 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.658 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.3 V/m; Power Drift = -0.011 dB
Peak SAR (extrapolated) = 0.765 W/kg
SAR(1 g) = 0.585 mW/g; SAR(10 g) = 0.391 mW/g
Maximum value of SAR (measured) = 0.633 mW/g
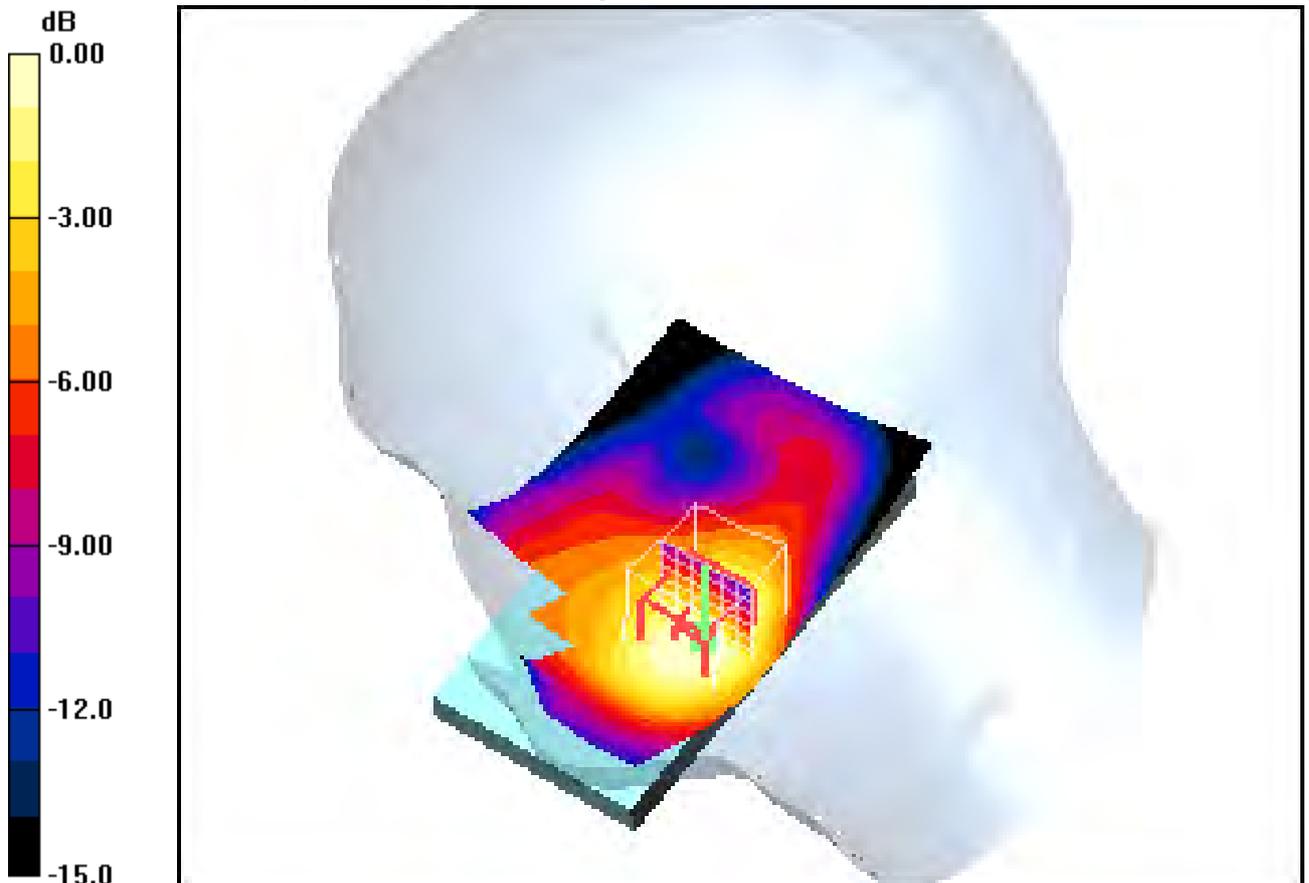
0 dB = 0.633mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.6°C

Date/Time: 05.07.2012 10:40:49Date/Time: 05.07.2012 10:49:30

EN62209-RightHandSide-WCDMA FDD IV
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.35 mho/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.114 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.35 V/m; Power Drift = 0.038 dB
Peak SAR (extrapolated) = 0.132 W/kg
SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.065 mW/g
Maximum value of SAR (measured) = 0.106 mW/g
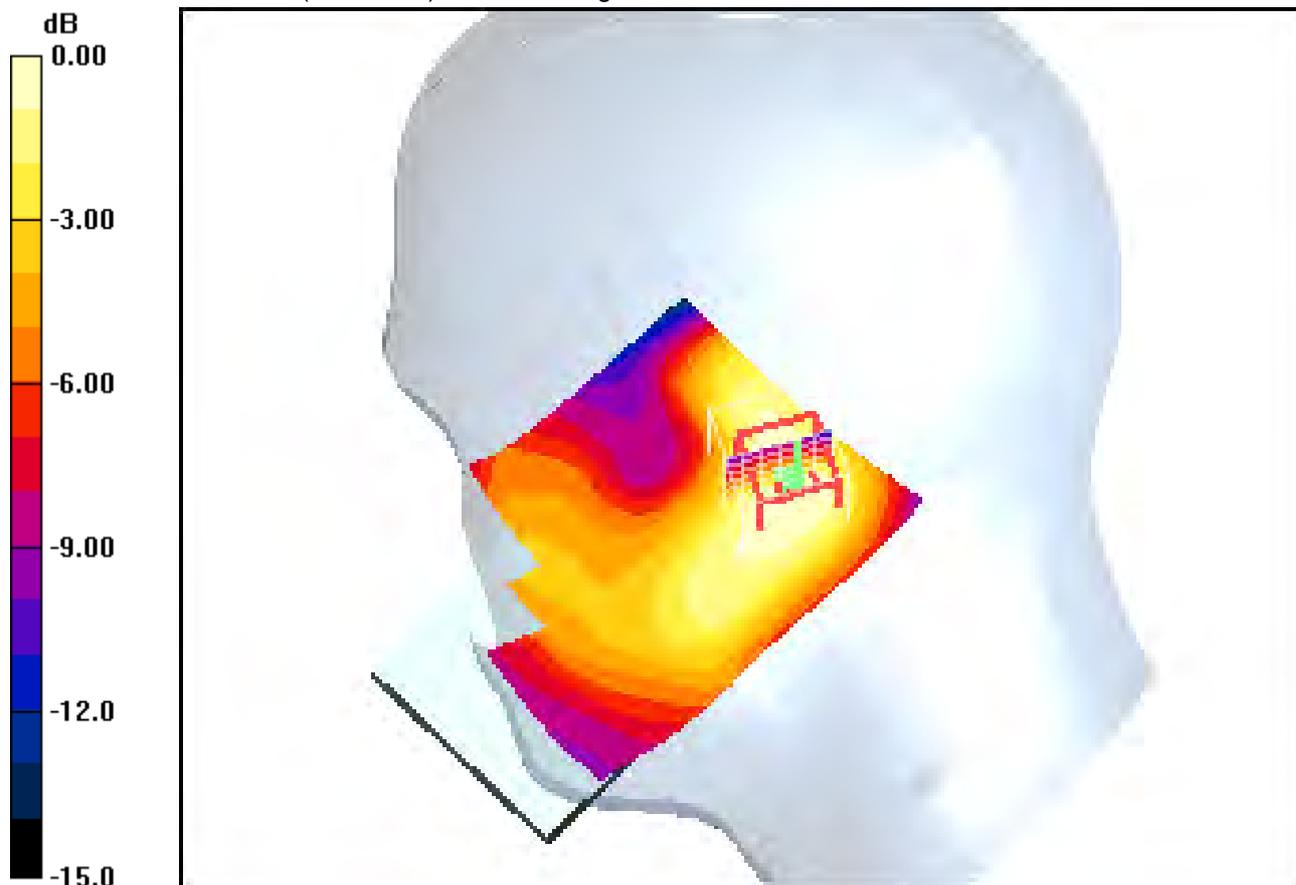
0 dB = 0.106mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.6°C

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Date/Time: 05.07.2012 10:18:39Date/Time: 05.07.2012 10:27:32

EN62209-RightHandSide-WCDMA FDD IV
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA 1700; Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.37 mho/m; ε_r = 40.1; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilt position - HighMiddle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.153 mW/g

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

Reference Value = 10.9 V/m; Power Drift = -0.035 dB
Peak SAR (extrapolated) = 0.185 W/kg
SAR(1 g) = 0.136 mW/g; SAR(10 g) = 0.088 mW/g
Maximum value of SAR (measured) = 0.146 mW/g
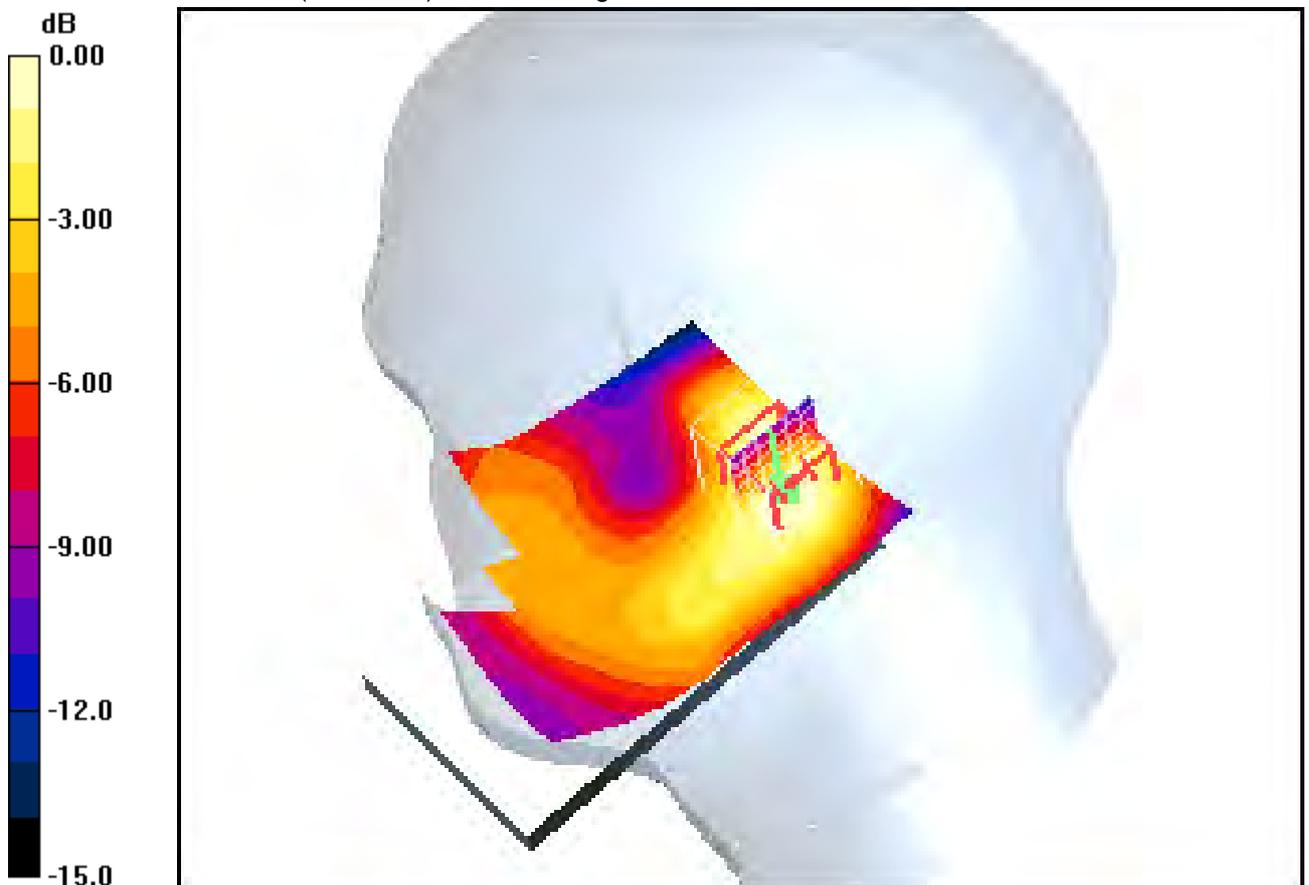
0 dB = 0.146mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.6°C

Date/Time: 05.07.2012 09:55:23Date/Time: 05.07.2012 10:03:49

EN62209-RightHandSide-WCDMA FDD IV
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.39 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.166 mW/g

## Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.2 V/m; Power Drift = 0.045 dB
Peak SAR (extrapolated) = 0.198 W/kg
SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.094 mW/g
Maximum value of SAR (measured) = 0.158 mW/g
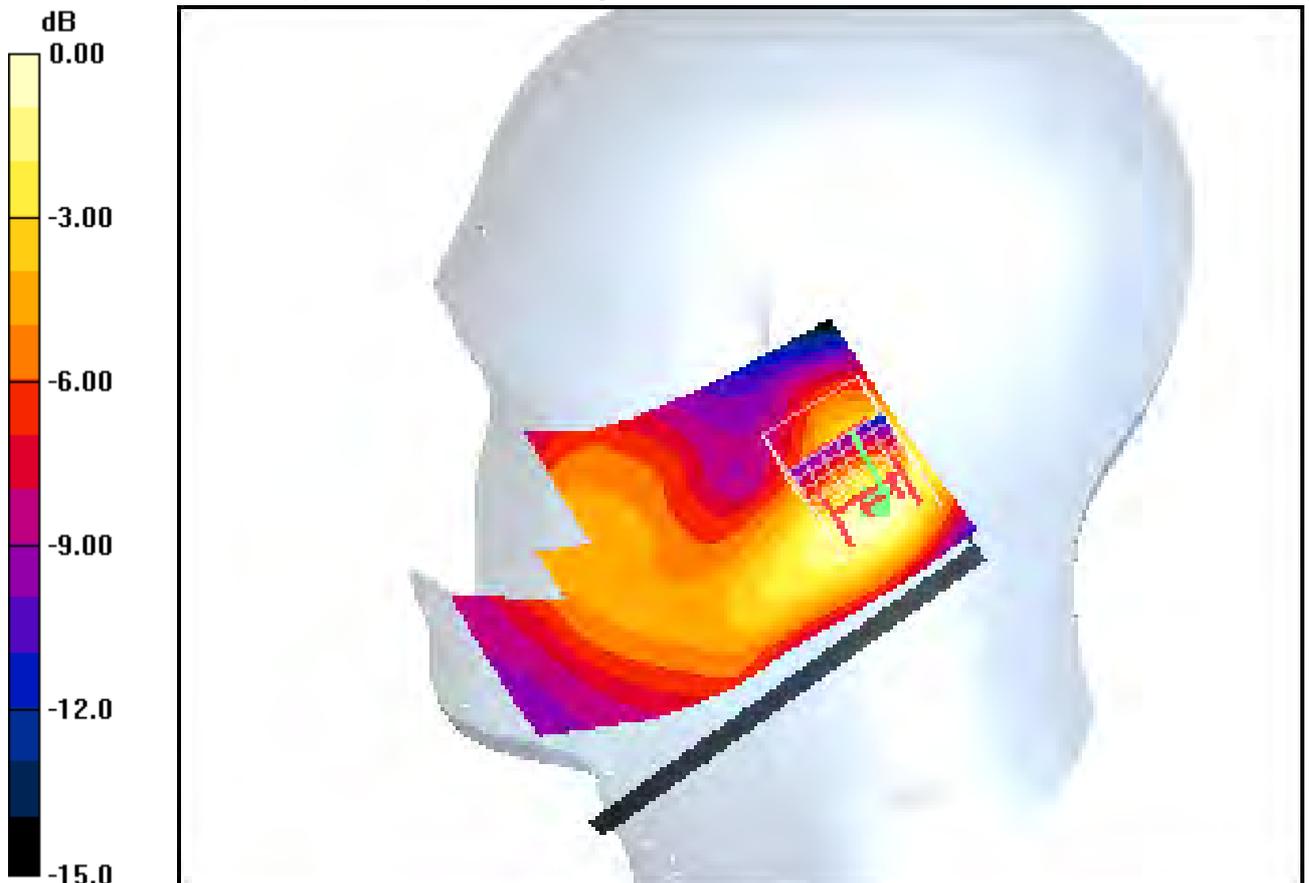
0 dB = 0.158mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.6°C

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Date/Time: 05.07.2012 12:47:53Date/Time: 05.07.2012 12:55:59

EN62209-RightHandSide-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA 1700; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: HSL1800 Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.39 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(5.28, 5.28, 5.28); Calibrated: 18.01.2012
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - High WC/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.631 mW/g

## Touch position - High WC/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.8 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.761 W/kg
SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.380 mW/g
Maximum value of SAR (measured) = 0.624 mW/g
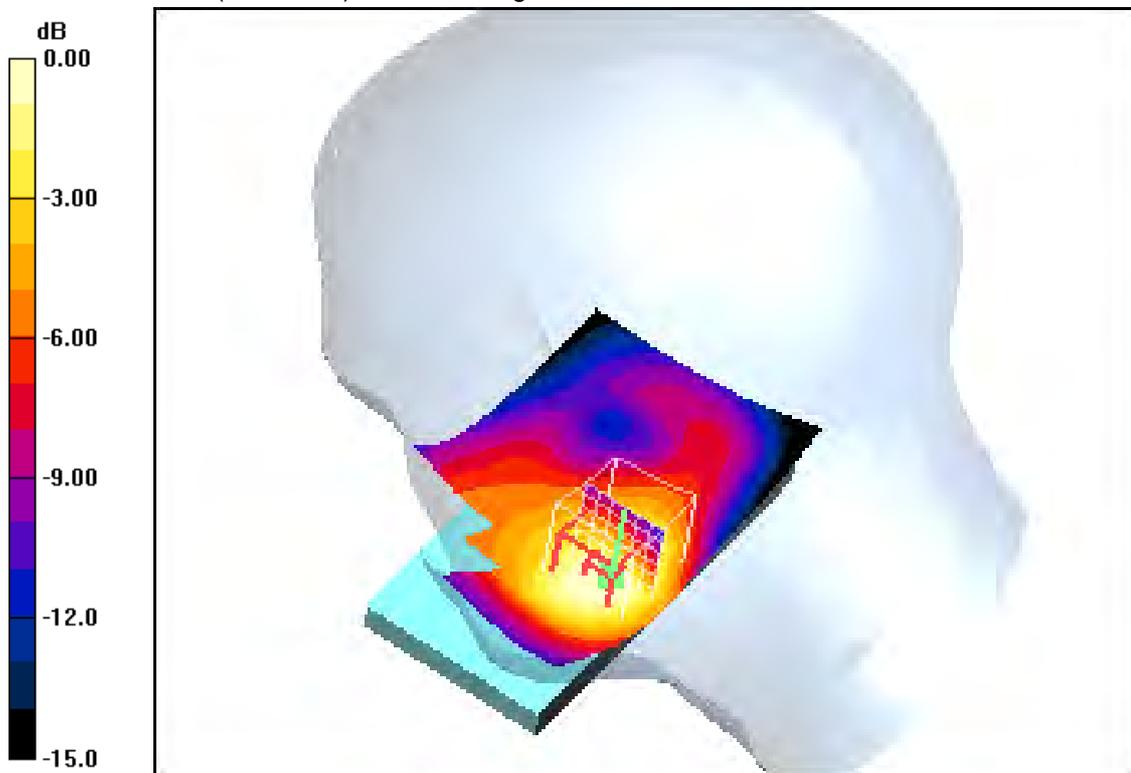
0 dB = 0.624mW/g

Additional information:
ambient temperature: 23.8°C; liquid temperature: 23.6°C

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Annex B.11: UMTS WCDMA FDD IV 1700MHz body hotspot

Date/Time: 23.07.2012 12:42:43Date/Time: 23.07.2012 12:51:58

OET65-Body-WCDMA FDD IV
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.47 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.583 mW/g

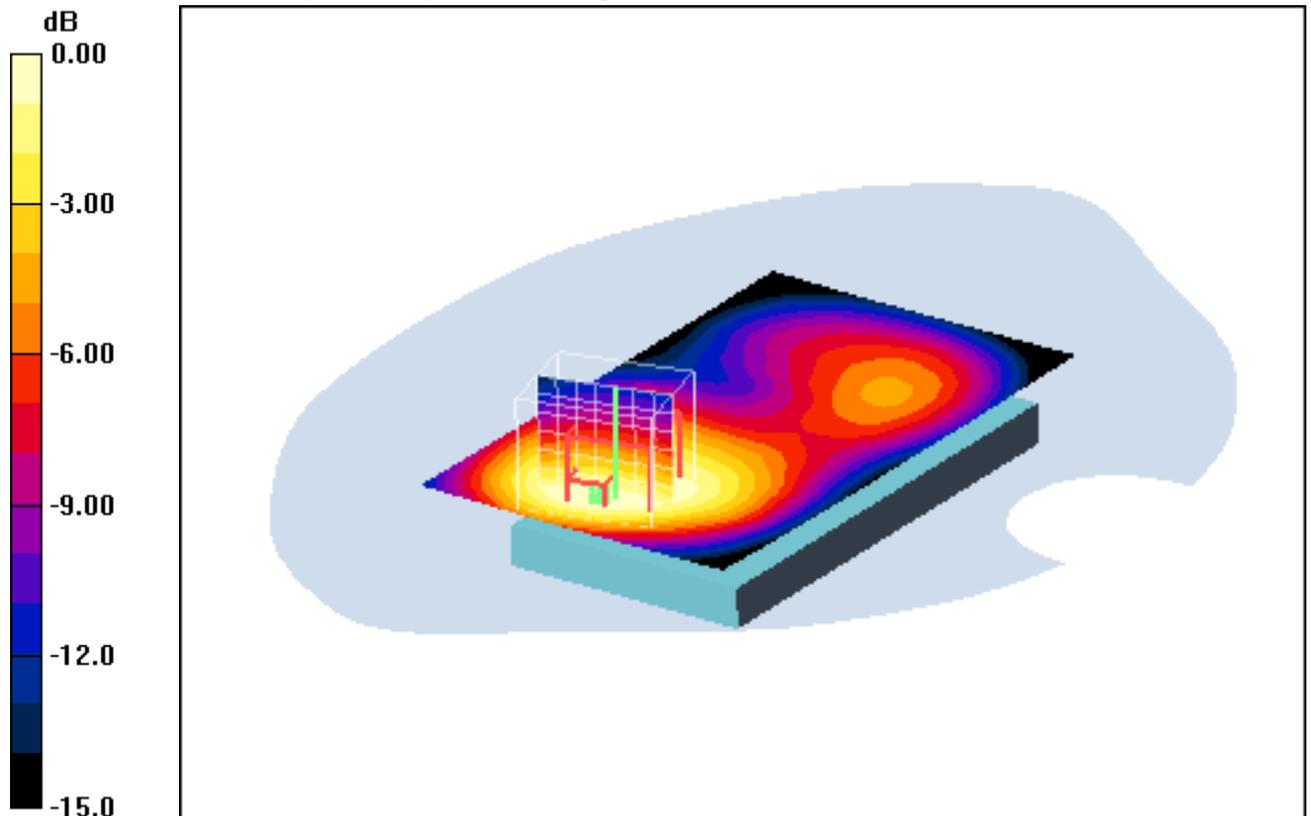## Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.0 V/m; Power Drift = -0.028 dB
Peak SAR (extrapolated) = 0.782 W/kg
SAR(1 g) = 0.495 mW/g; SAR(10 g) = 0.308 mW/g
Maximum value of SAR (measured) = 0.540 mW/g
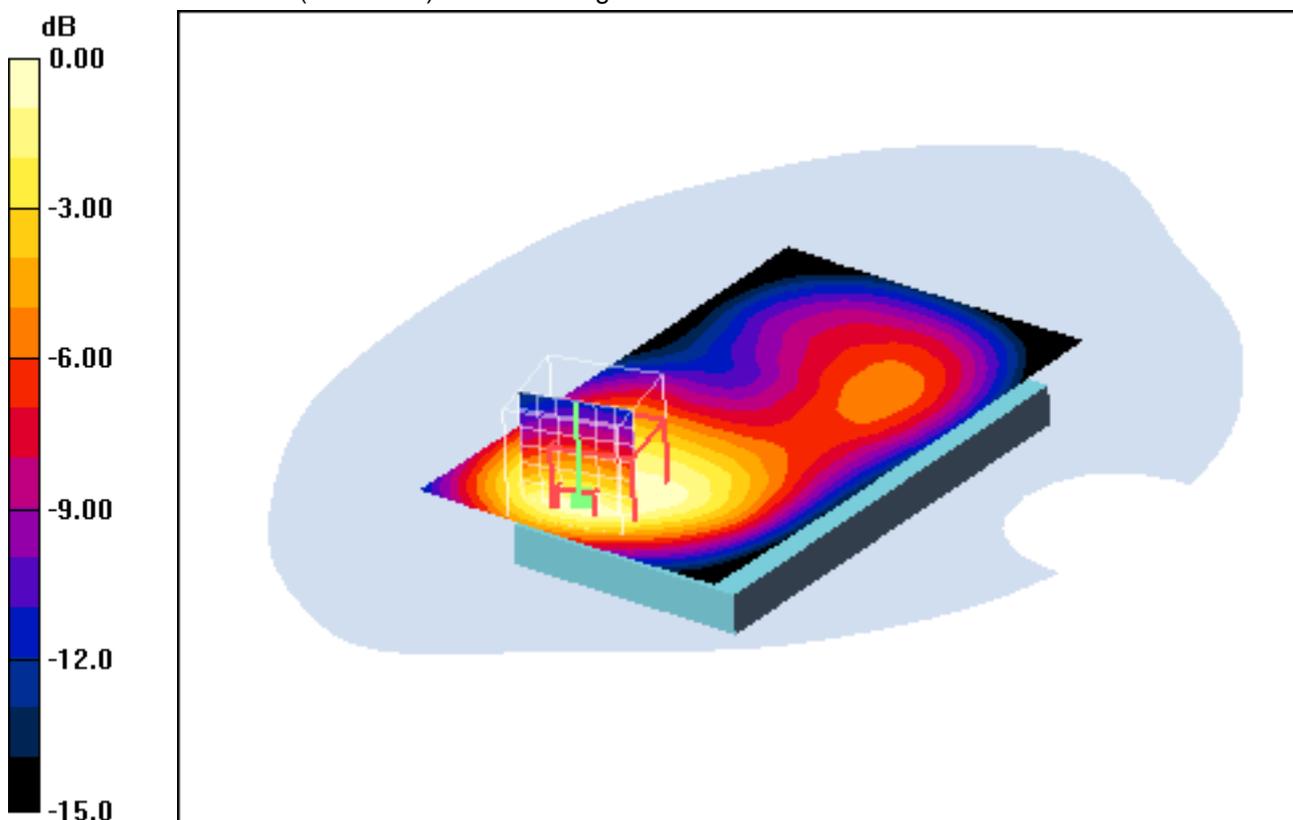
0 dB = 0.540mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.7°C; liquid temperature: 22.4°C

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Date/Time: 23.07.2012 13:05:57Date/Time: 23.07.2012 13:14:59

OET65-Body-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA 1700; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: M1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.49 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.591 mW/g

Front position - Middle/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:

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

Reference Value = 20.0 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.809 W/kg

SAR(1 g) = 0.505 mW/g; SAR(10 g) = 0.312 mW/g

Maximum value of SAR (measured) = 0.559 mW/g
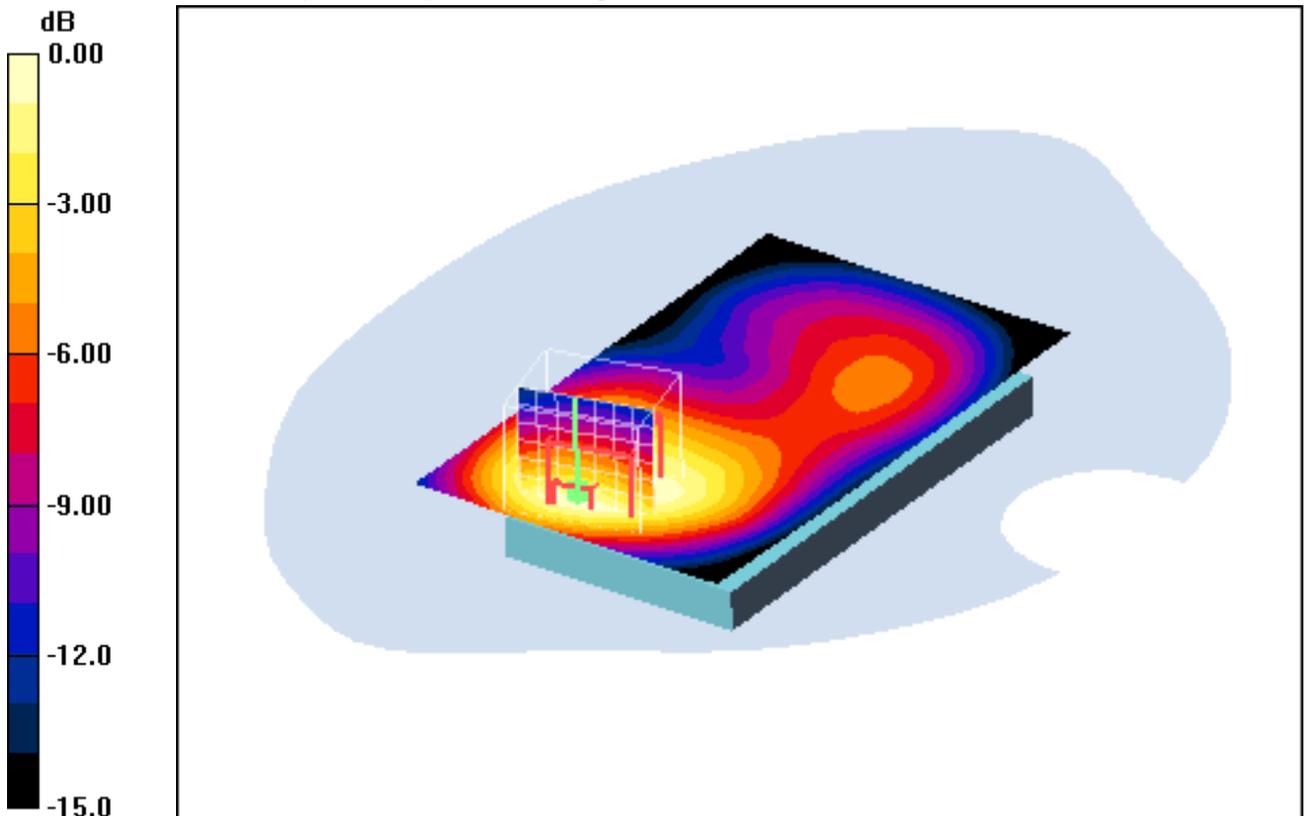
0 dB = 0.559mW/g

Additional information:

position or distance of DUT to SAM: 10mm

ambient temperature: 23.7°C; liquid temperature: 22.4°C

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Date/Time: 23.07.2012 13:30:04Date/Time: 23.07.2012 13:39:04

OET65-Body-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA 1700; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: M1800 Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.52 mho/m; ε_r = 53; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.724 mW/g

## Front position - High/Zoom Scan (7x7x7) (8x7x7)/Cube 0: Measurement grid:

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

Reference Value = 22.2 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 1.00 W/kg

SAR(1 g) = 0.622 mW/g; SAR(10 g) = 0.392 mW/g

Maximum value of SAR (measured) = 0.669 mW/g

0 dB = 0.669mW/g

Additional information:

position or distance of DUT to SAM: 10mm

ambient temperature: 23.7°C; liquid temperature: 22.4°C

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OET65-Body-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA 1700; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.47 mho/m; ε_r = 53.2; ρ = 1000 kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.763 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 = -0.014 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.690 mW/g; SAR(10 g) = 0.412 mW/g
Maximum value of SAR (measured) = 0.754 mW/g
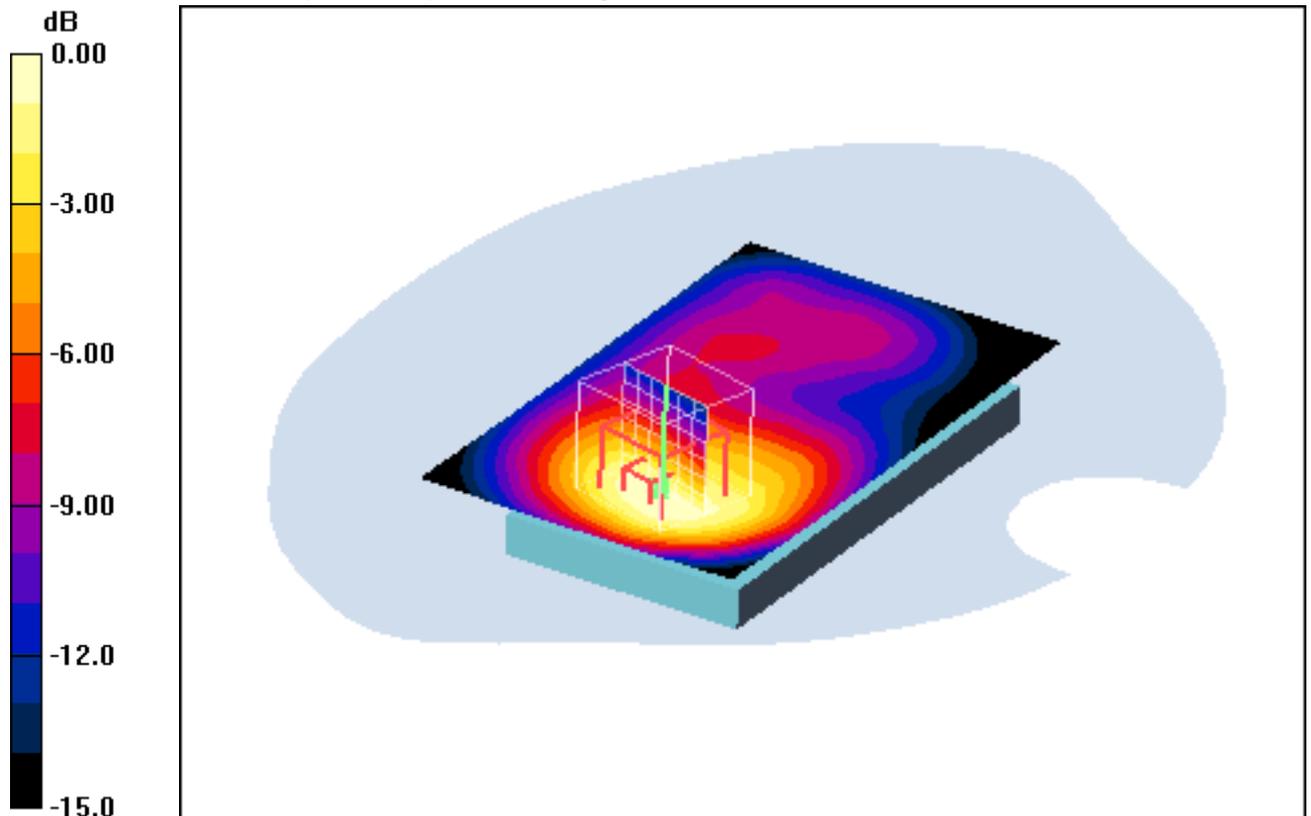
0 dB = 0.754mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.7°C; liquid temperature: 22.4°C

Date/Time: 23.07.2012 14:17:26Date/Time: 23.07.2012 14:27:13

OET65-Body-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.49 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.937 mW/g

## Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.0 V/m; Power Drift = 0.048 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.834 mW/g; SAR(10 g) = 0.498 mW/g
Maximum value of SAR (measured) = 0.917 mW/g
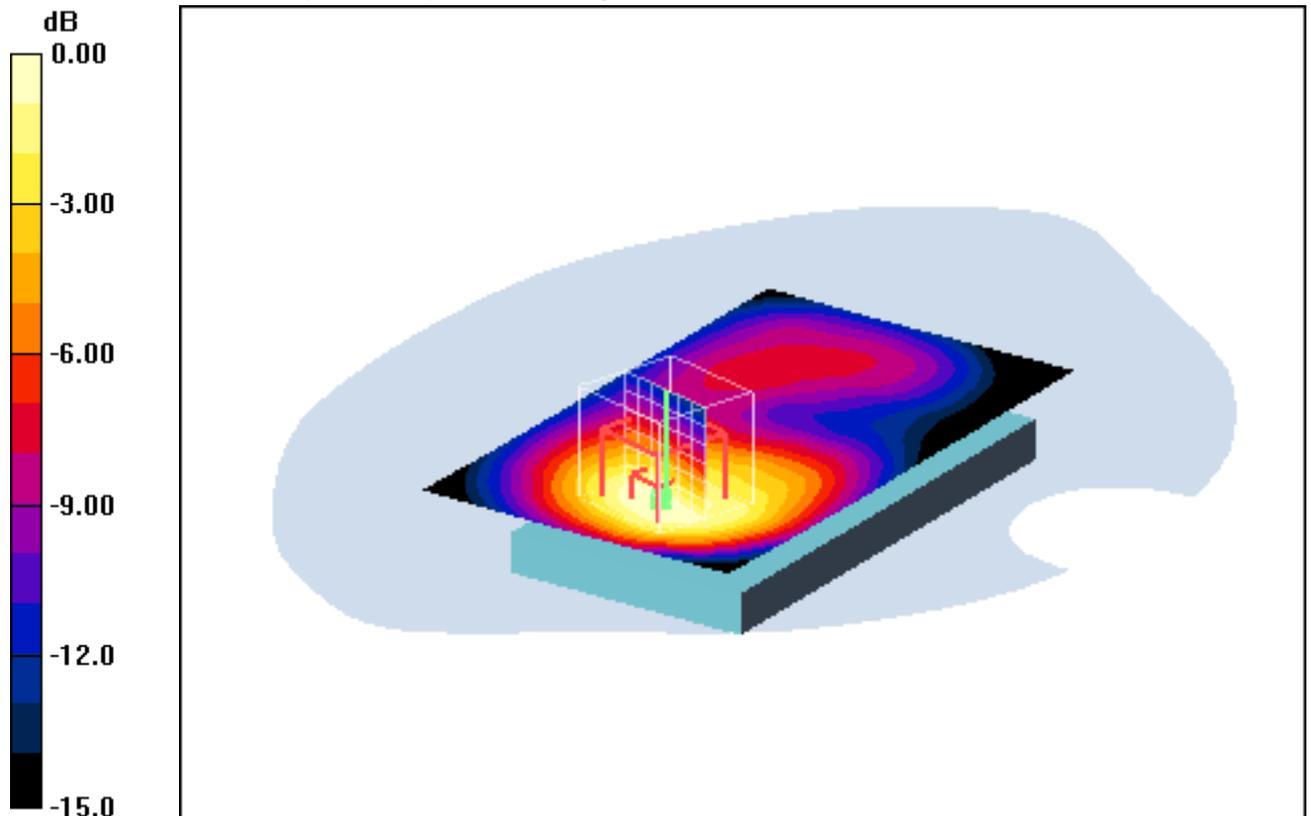
0 dB = 0.917mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.7°C; liquid temperature: 22.4°C

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Date/Time: 23.07.2012 13:54:32Date/Time: 23.07.2012 14:04:23

OET65-Body-WCDMA FDD IV
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.52 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.959 mW/g

Rear position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.6 V/m; Power Drift = -0.011 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.877 mW/g; SAR(10 g) = 0.526 mW/g
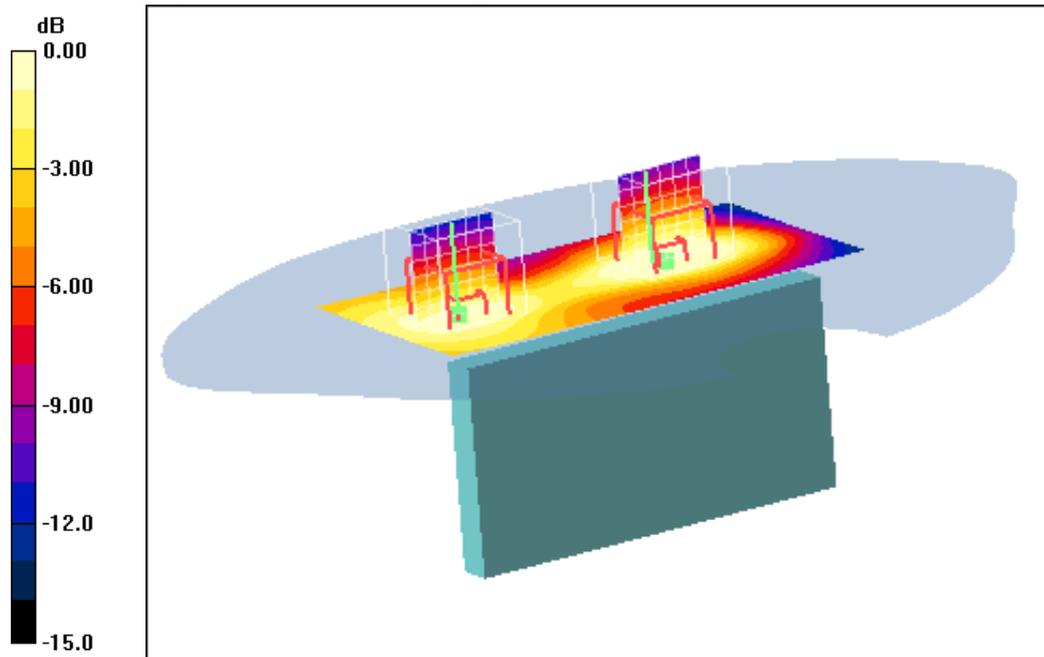Maximum value of SAR (measured) = 0.964 mW/g
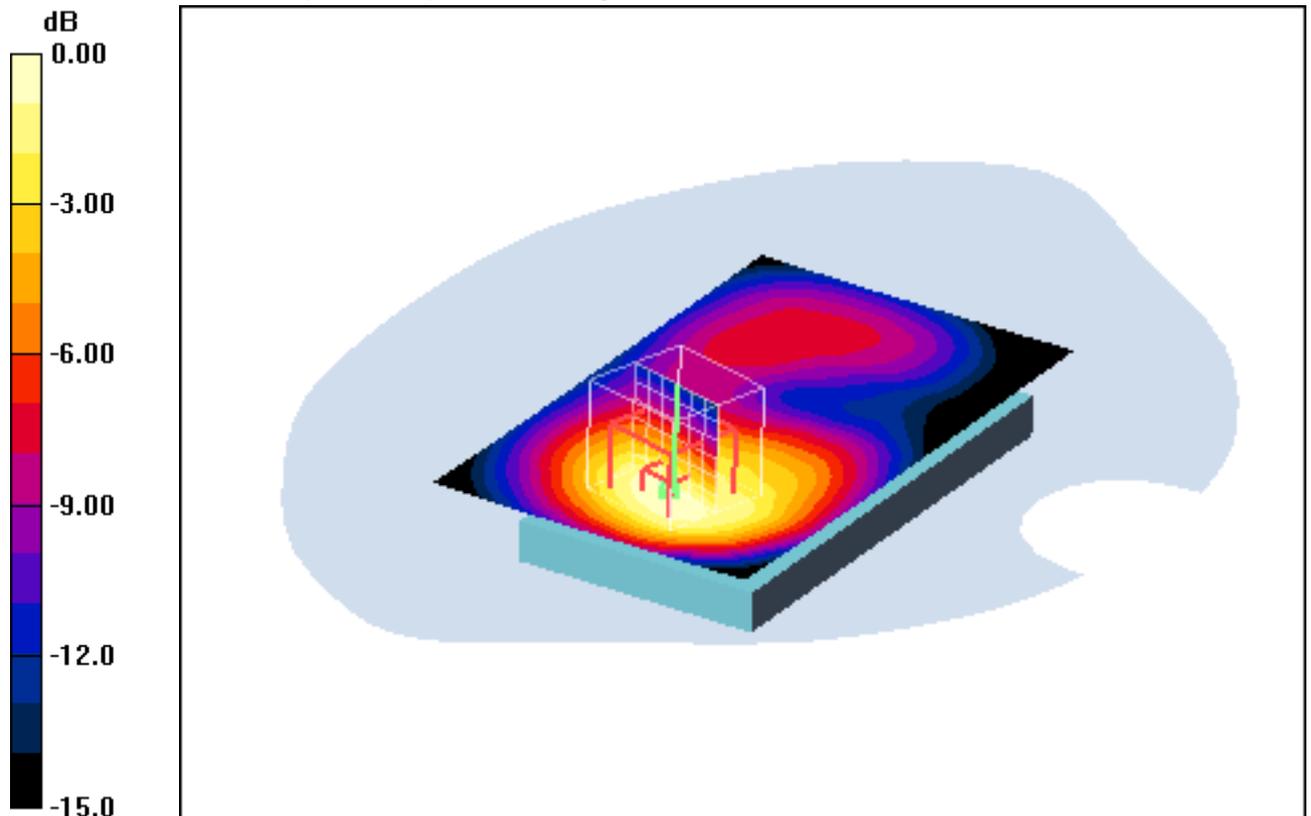
0 dB = 0.964mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.7°C; liquid temperature: 22.4°C

Date/Time: 23.07.2012 15:05:21Date/Time: 23.07.2012 15:12:59

OET65-Body-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA 1700; Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.49 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge left position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.188 mW/g

Edge left position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.5 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.243 W/kg
SAR(1 g) = 0.156 mW/g; SAR(10 g) = 0.094 mW/g
Maximum value of SAR (measured) = 0.169 mW/g
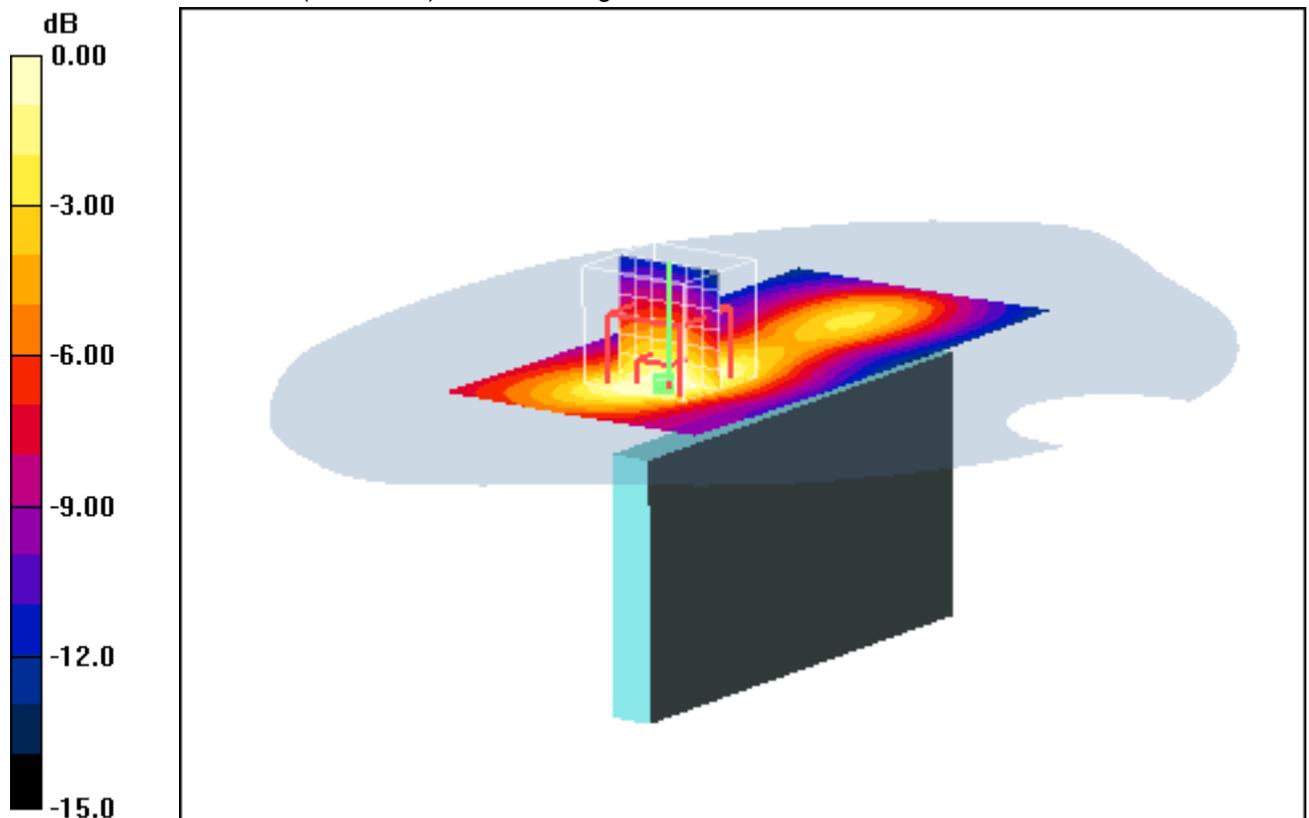
0 dB = 0.169mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.7°C; liquid temperature: 22.4°C

Date/Time: 23.07.2012 15:26:36Date/Time: 23.07.2012 15:34:22Date/Time: 23.07.2012 15:45:42

OET65-Body-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.49 mho/m; ε_r = 53.1; ρ = 1000 kg/m³
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge right position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.104 mW/g

Edge right position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.77 V/m; Power Drift = 0.088 dB
Peak SAR (extrapolated) = 0.151 W/kg
SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.058 mW/g
Maximum value of SAR (measured) = 0.106 mW/g

Edge right position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.77 V/m; Power Drift = 0.088 dB
Peak SAR (extrapolated) = 0.111 W/kg
SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.047 mW/g
Maximum value of SAR (measured) = 0.078 mW/g

0 dB = 0.078mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.7°C; liquid temperature: 22.4°C

Date/Time: 23.07.2012 17:47:22Date/Time: 23.07.2012 17:54:14

OET65-Body-WCDMA FDD IV
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1712.4 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.47 mho/m; ε_r = 53.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - Low/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.23 mW/g

Edge bottom position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.1 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.86 W/kg
SAR(1 g) = 1.11 mW/g; SAR(10 g) = 0.611 mW/g
Maximum value of SAR (measured) = 1.24 mW/g
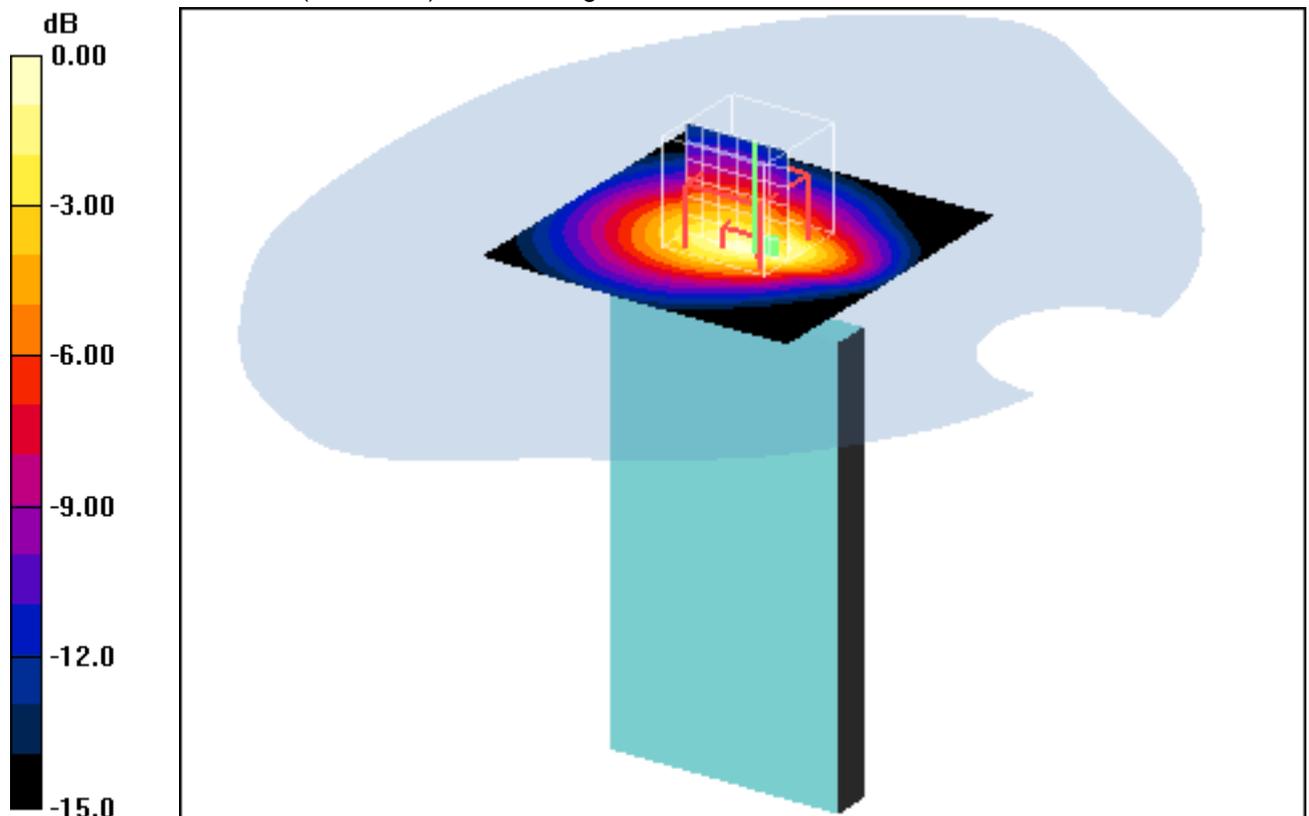
0 dB = 1.24mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.7°C; liquid temperature: 22.4°C

Date/Time: 23.07.2012 16:00:21Date/Time: 23.07.2012 16:06:54

OET65-Body-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.49 mho/m; ε_r = 53.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - Middle/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.10 mW/g

## Edge bottom position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.4 V/m; Power Drift = 0.016 dB
Peak SAR (extrapolated) = 1.59 W/kg
SAR(1 g) = 0.946 mW/g; SAR(10 g) = 0.517 mW/g
Maximum value of SAR (measured) = 1.07 mW/g
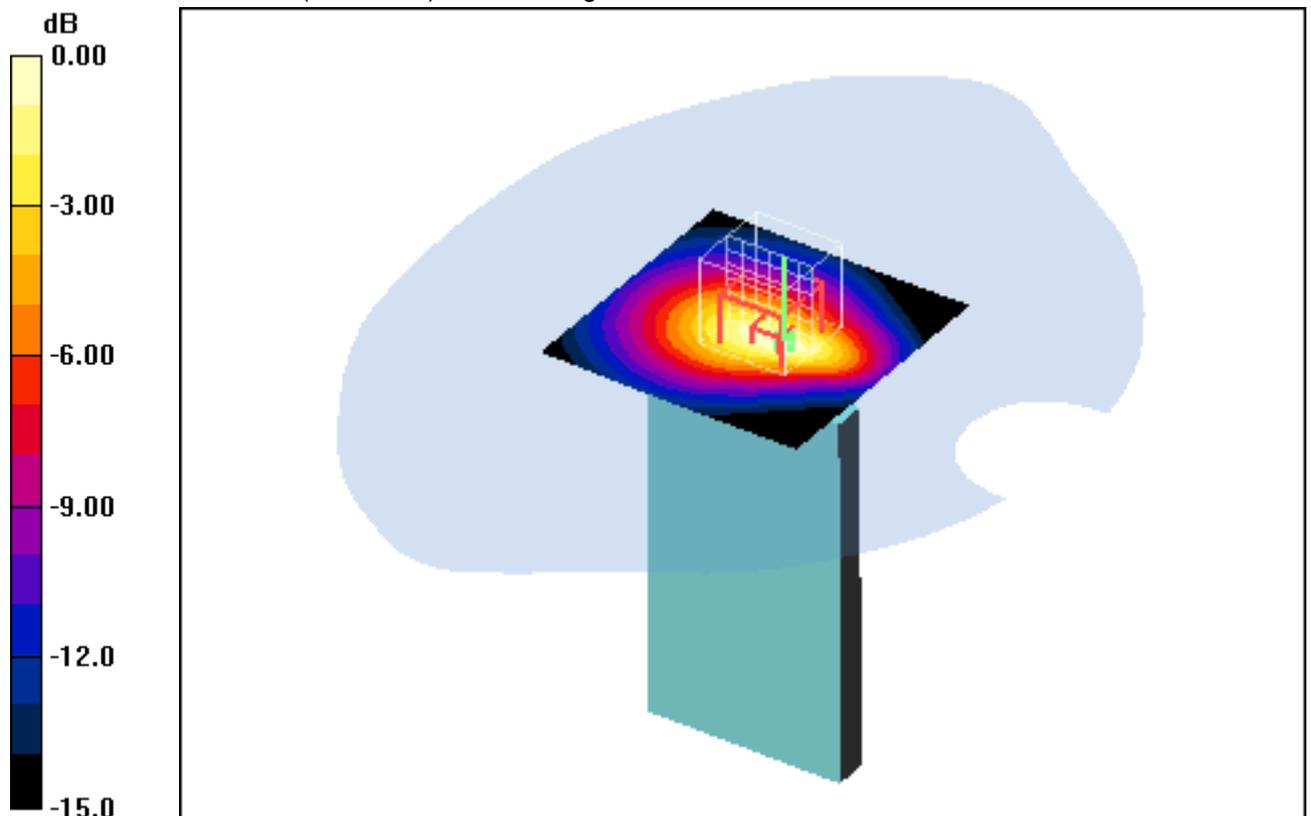
0 dB = 1.07mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.7°C; liquid temperature: 22.4°C

Date/Time: 23.07.2012 18:12:43Date/Time: 23.07.2012 18:19:35

OET65-Body-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA 1700; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: M1800 Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.52 mho/m; ε_r = 53; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - High/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.28 mW/g

## Edge bottom position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.3 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 1.12 mW/g; SAR(10 g) = 0.600 mW/g

Maximum value of SAR (measured) = 1.25 mW/g
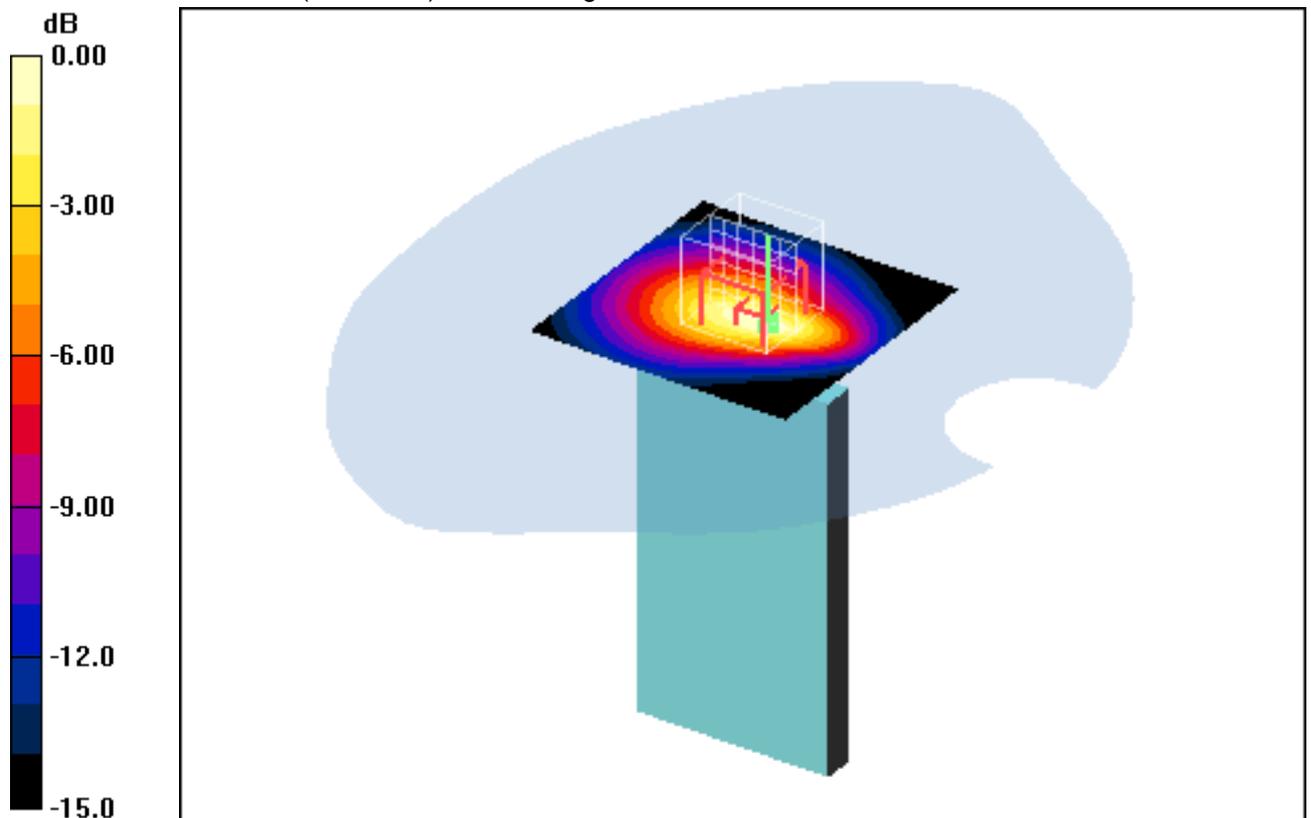
0 dB = 1.25mW/g

Additional information:

position or distance of DUT to SAM: 10mm

ambient temperature: 23.7°C; liquid temperature: 22.4°C

Date/Time: 23.07.2012 19:29:56Date/Time: 23.07.2012 19:38:39

OET65-Body-WCDMA FDD IV
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.52 mho/m; $ε_r$ = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - High WC/Area Scan (61x61x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.14 mW/g

Edge bottom position - High WC/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.3 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.79 W/kg
SAR(1 g) = 1 mW/g; SAR(10 g) = 0.528 mW/g
Maximum value of SAR (measured) = 1.15 mW/g
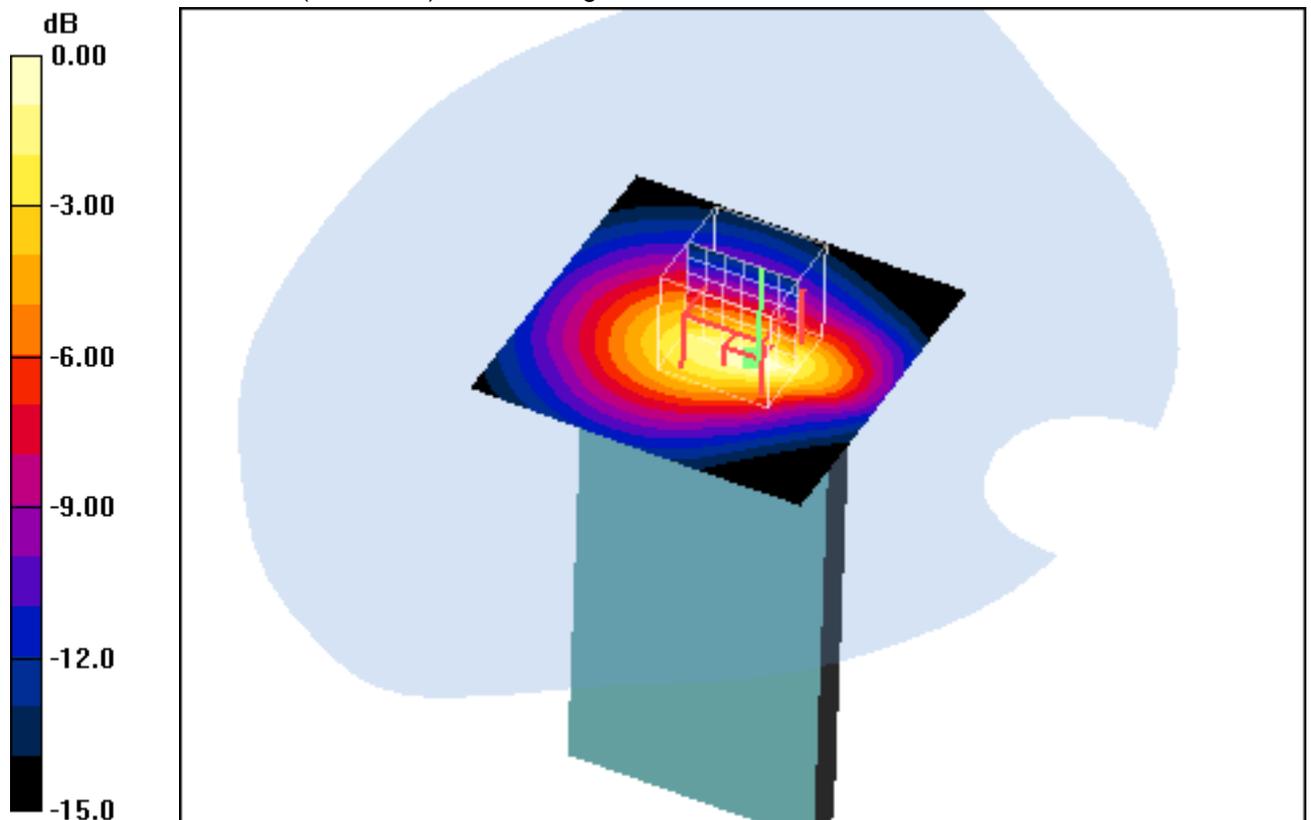
0 dB = 1.15mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.7°C; liquid temperature: 22.4°C

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Date/Time: 23.07.2012 16:43:46Date/Time: 23.07.2012 16:52:46

OET65-Body-WCDMA FDD IV
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA 1700; Frequency: 1752.6 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.52 mho/m; ε_r = 53; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High WC/Area Scan (61x101x1): Measurement grid: dx=15mm,
dy=15mm
Maximum value of SAR (interpolated) = 0.932 mW/g

Rear position - High WC/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.5 V/m; Power Drift = -0.056 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.840 mW/g; SAR(10 g) = 0.507 mW/g
Maximum value of SAR (measured) = 0.917 mW/g
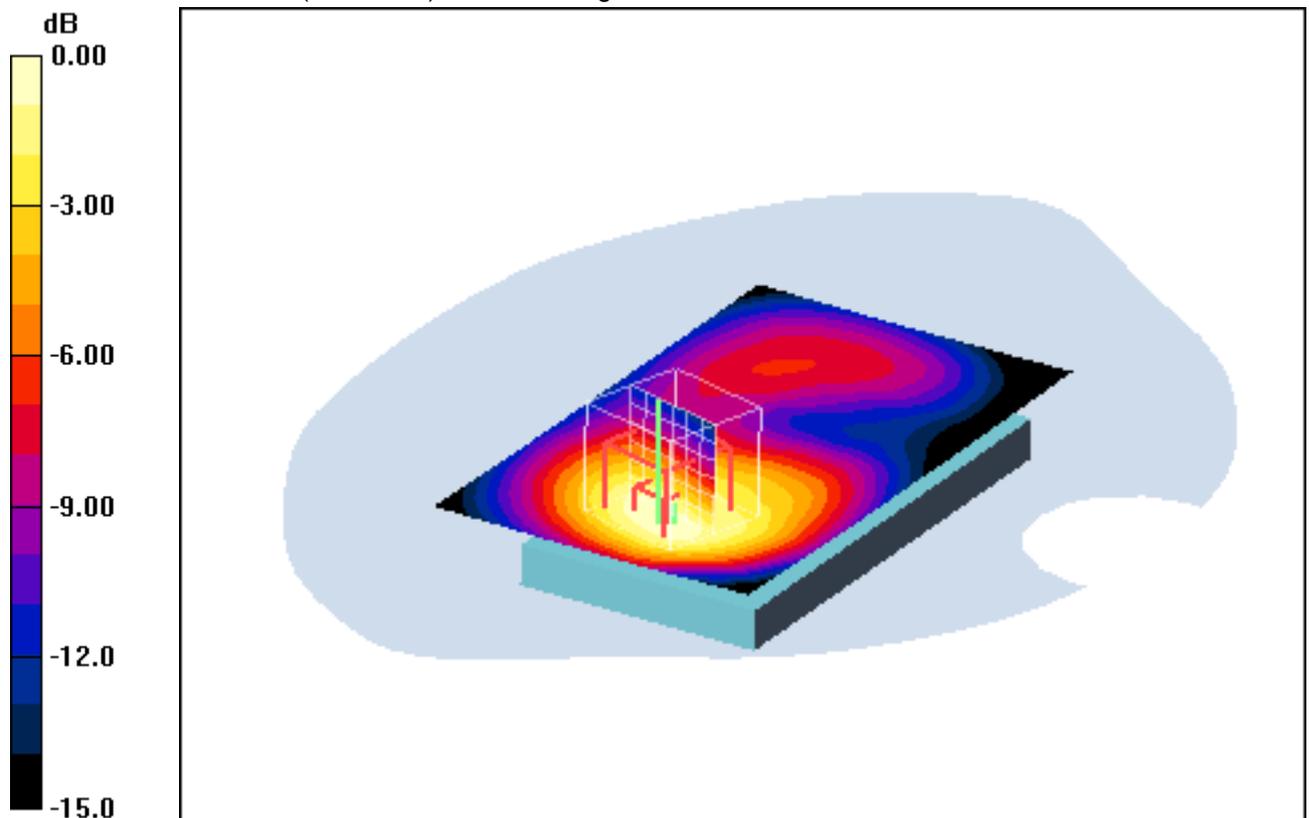
0 dB = 0.917mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.7°C; liquid temperature: 22.4°C

Annex B.12: UMTS WCDMA FDD IV 1700MHz body worn

Date/Time: 23.07.2012 17:08:08Date/Time: 23.07.2012 17:16:20

OET65-Body-WCDMA FDD IV

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA 1700; Frequency: 1732.4 MHz; Duty Cycle: 1:1
Medium: M1800 Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.49 mho/m; $ε_r$ = 53.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.52, 4.52, 4.52); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle 15mm/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.573 mW/g

Rear position - Middle 15mm/Zoom Scan (7x7x7) (9x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.7 V/m; Power Drift = 0.011 dB
Peak SAR (extrapolated) = 0.816 W/kg
SAR(1 g) = 0.537 mW/g; SAR(10 g) = 0.340 mW/g
Maximum value of SAR (measured) = 0.572 mW/g
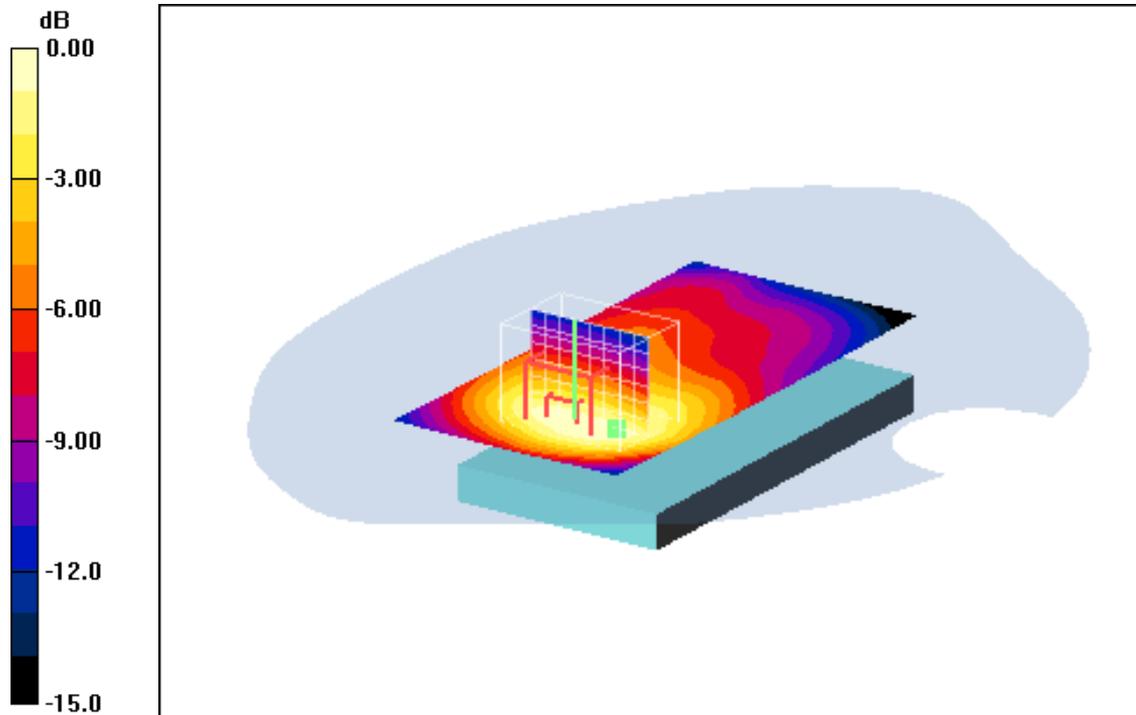
0 dB = 0.572mW/g

Additional information:
position or distance of DUT to SAM: 15mm with headset
ambient temperature: 23.7°C; liquid temperature: 22.4°C

Annex B.13: UMTS WCDMA FDD II 1900MHz head

Date/Time: 10.07.2012 15:11:40Date/Time: 10.07.2012 15:19:59

IEEE1528-LeftHandSide-WCDMA FDD II
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used (interpolated): f = 1852.5 MHz; σ = 1.34 mho/m; $ε_r$ = 39.6; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.849 mW/g

Touch position - Low/Zoom Scan (7x7x7) (12x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.3 V/m; Power Drift = -0.051 dB
Peak SAR (extrapolated) = 1.28 W/kg
SAR(1 g) = 0.823 mW/g; SAR(10 g) = 0.514 mW/g
Maximum value of SAR (measured) = 0.882 mW/g
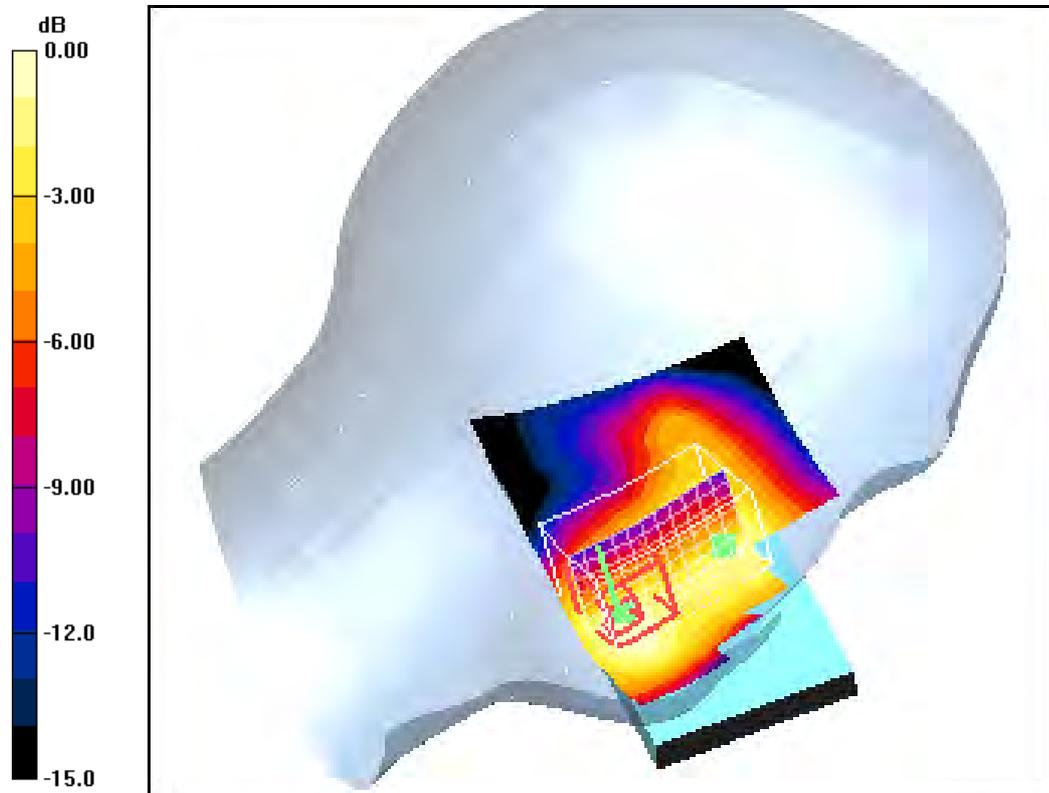
0 dB = 0.882mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

Date/Time: 10.07.2012 14:29:36Date/Time: 10.07.2012 14:37:19

IEEE1528-LeftHandSide-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.37 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.906 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x13x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.7 V/m; Power Drift = 0.041 dB
Peak SAR (extrapolated) = 1.30 W/kg
SAR(1 g) = 0.835 mW/g; SAR(10 g) = 0.527 mW/g
Maximum value of SAR (measured) = 0.885 mW/g
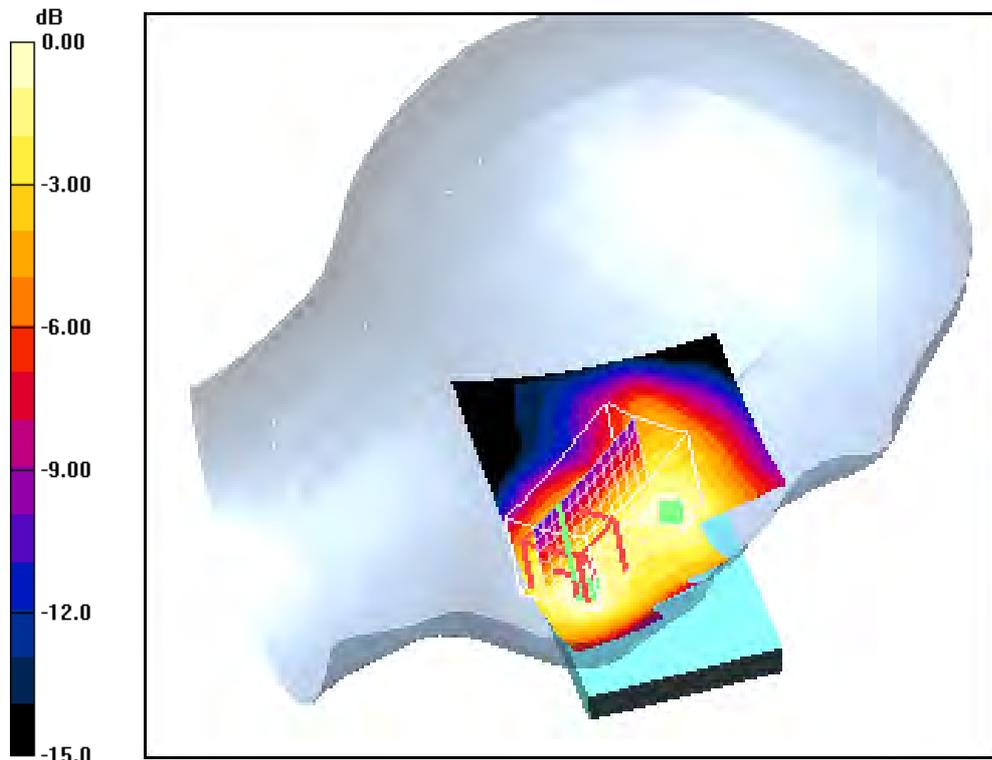
0 dB = 0.885mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

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Date/Time: 10.07.2012 13:55:32Date/Time: 10.07.2012 14:05:38

IEEE1528-LeftHandSide-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: HSL1900 Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.4 mho/m; ε_r = 39.3; ρ = 1000 kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.721 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x13x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.6 V/m; Power Drift = 0.025 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.686 mW/g; SAR(10 g) = 0.429 mW/g

Maximum value of SAR (measured) = 0.727 mW/g
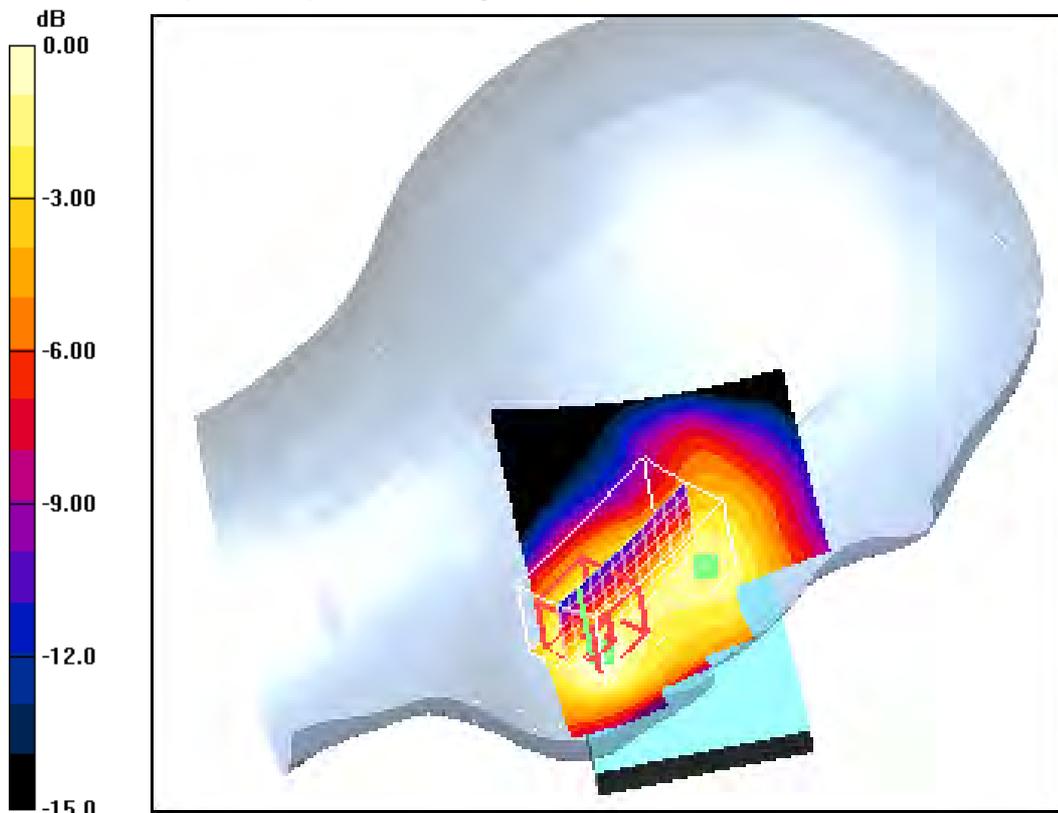
0 dB = 0.727mW/g

Additional information:

ambient temperature: 22.3°C; liquid temperature: 22.9°C

Date/Time: 10.07.2012 12:42:27Date/Time: 10.07.2012 12:50:34

IEEE1528-LeftHandSide-WCDMA FDD II
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used (interpolated): f = 1852.5 MHz; σ = 1.34 mho/m; $ε_r$ = 39.6; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.519 mW/g

## Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.3 V/m; Power Drift = 0.052 dB
Peak SAR (extrapolated) = 0.650 W/kg
SAR(1 g) = 0.451 mW/g; SAR(10 g) = 0.282 mW/g
Maximum value of SAR (measured) = 0.491 mW/g
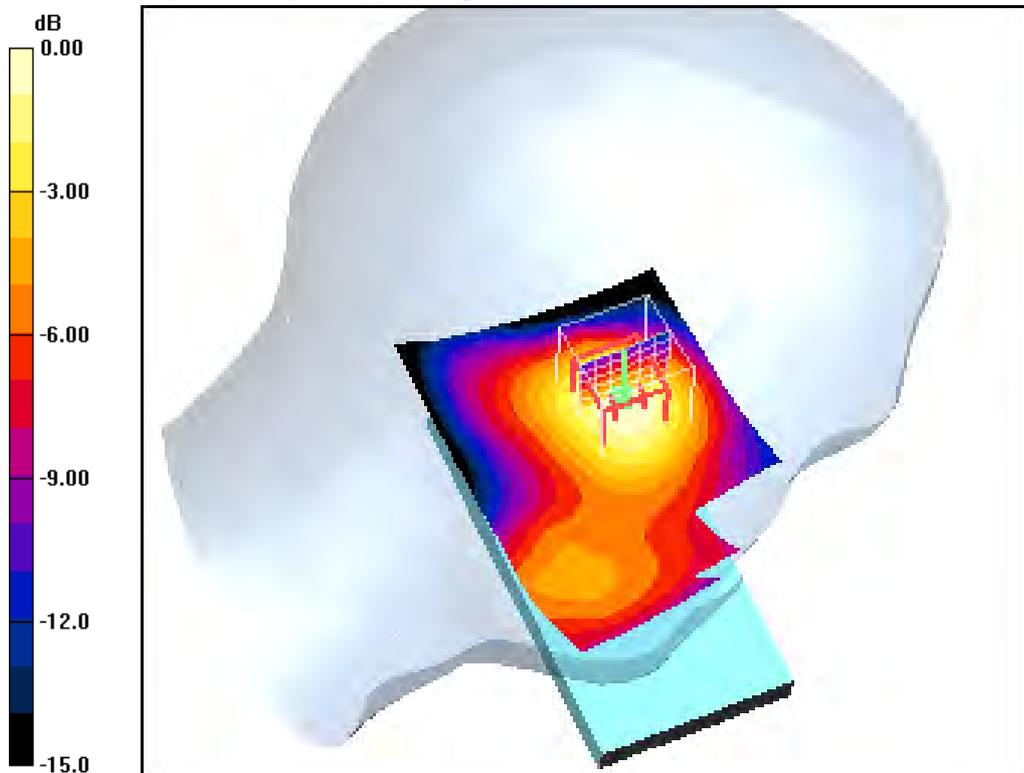
0 dB = 0.491mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

Date/Time: 10.07.2012 13:04:34Date/Time: 10.07.2012 13:14:34

IEEE1528-LeftHandSide-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.37 mho/m; $ε_r$ = 39.4; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.582 mW/g

Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.2 V/m; Power Drift = 0.039 dB
Peak SAR (extrapolated) = 0.747 W/kg
SAR(1 g) = 0.503 mW/g; SAR(10 g) = 0.312 mW/g
Maximum value of SAR (measured) = 0.553 mW/g
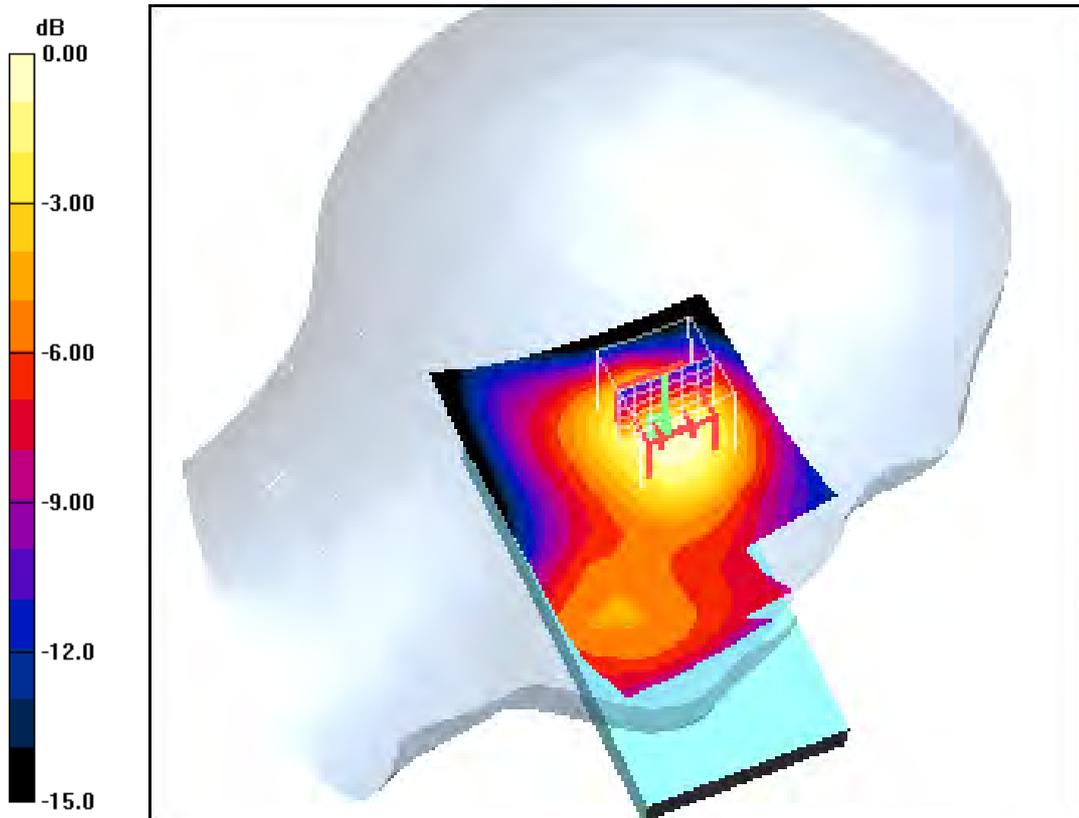
0 dB = 0.553mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

Date/Time: 10.07.2012 13:31:45Date/Time: 10.07.2012 13:41:11

IEEE1528-LeftHandSide-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.4 mho/m; ε_r = 39.3; ρ = 1000 kg/m^3
Phantom section: Left Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.475 mW/g

Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.7 V/m; Power Drift = 0.005 dB
Peak SAR (extrapolated) = 0.602 W/kg
SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.249 mW/g
Maximum value of SAR (measured) = 0.445 mW/g
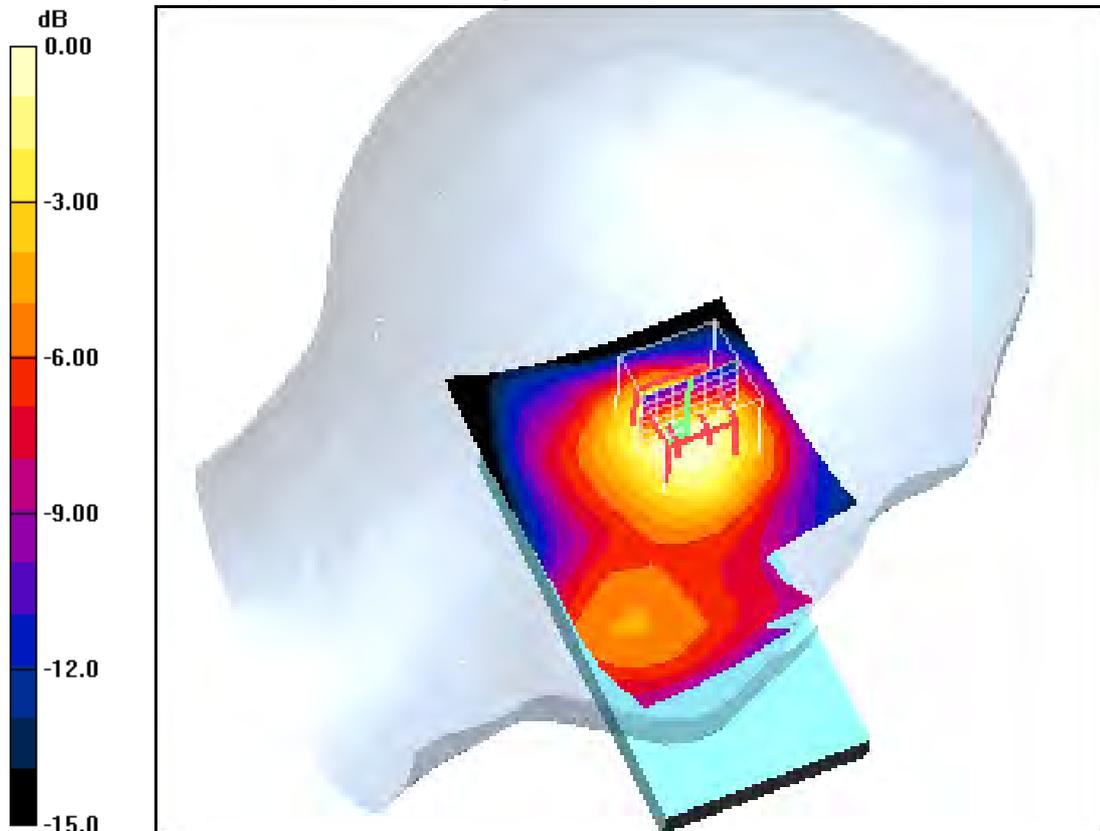
0 dB = 0.445mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

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Date/Time: 10.07.2012 10:09:45Date/Time: 10.07.2012 10:17:48

IEEE1528-RightHandSide-WCDMA FDD II
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used (interpolated): f = 1852.5 MHz; σ = 1.34 mho/m; $ε_r$ = 39.6; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.879 mW/g

Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
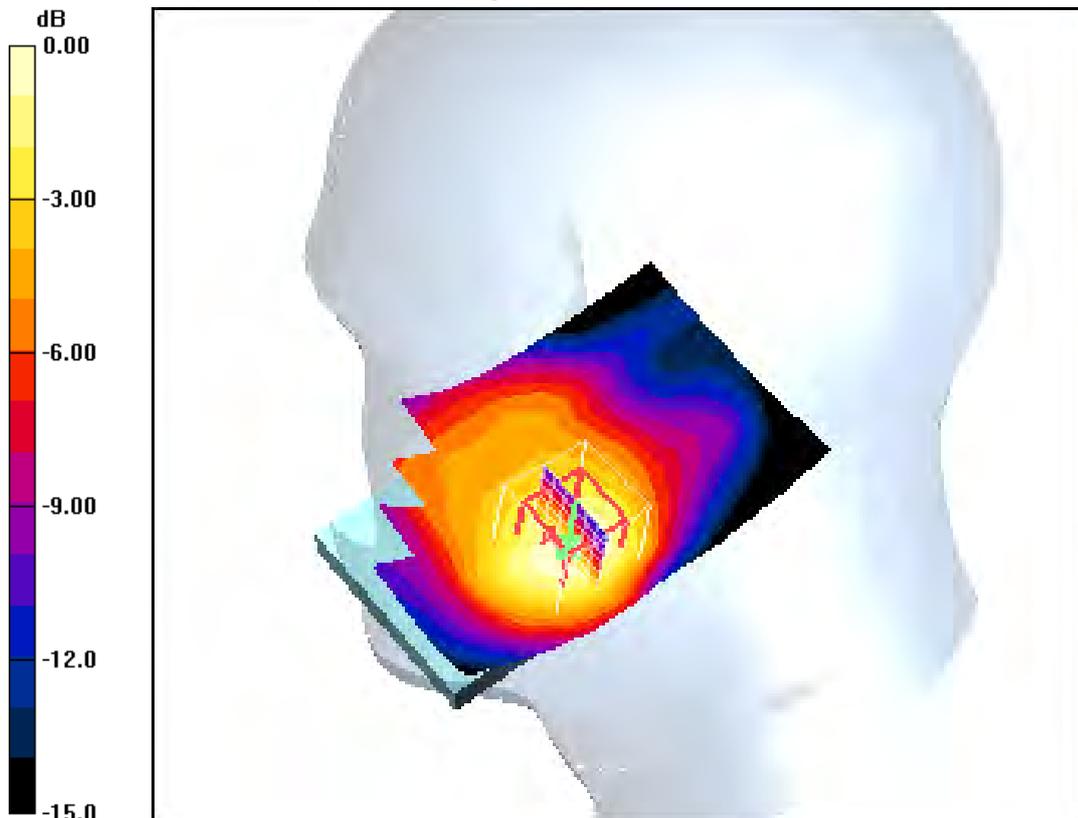Reference Value = 26.8 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 1.09 W/kg
SAR(1 g) = 0.793 mW/g; SAR(10 g) = 0.522 mW/g
Maximum value of SAR (measured) = 0.857 mW/g
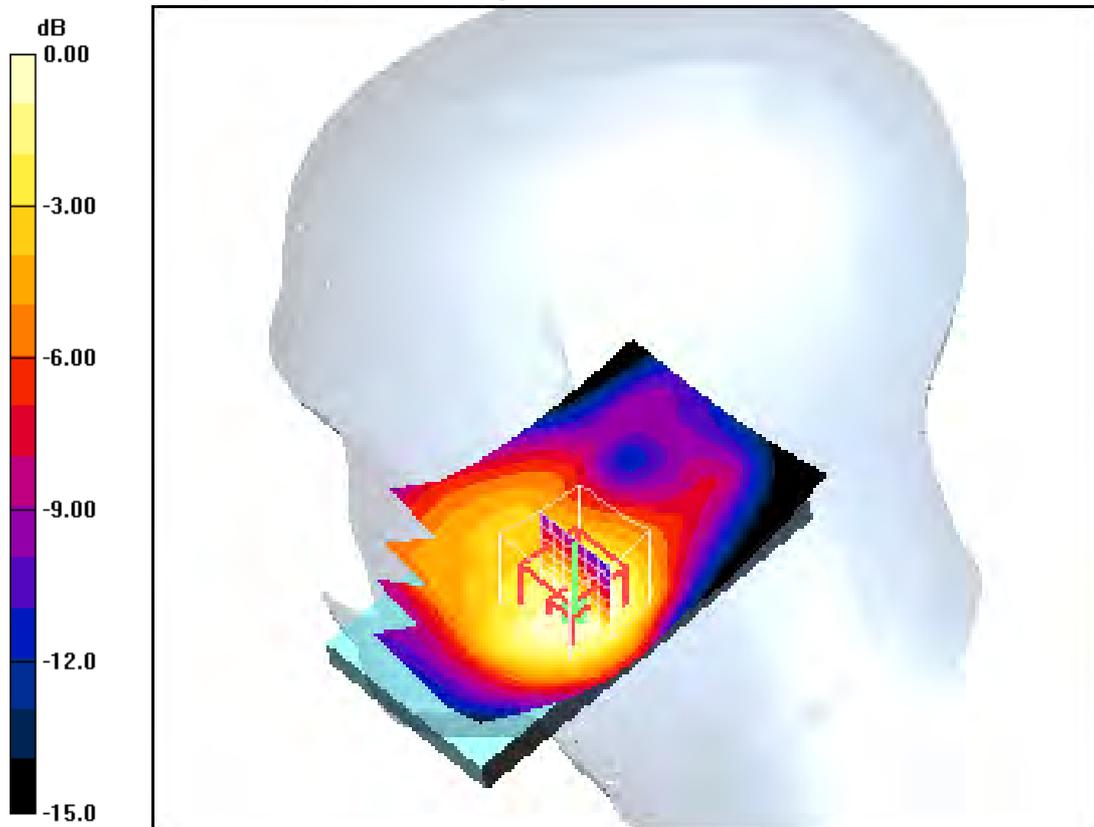
0 dB = 0.857mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

Date/Time: 10.07.2012 09:47:43Date/Time: 10.07.2012 09:56:35

IEEE1528-RightHandSide-WCDMA FDD II
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.37 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.956 mW/g

Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.7 V/m; Power Drift = -0.029 dB
Peak SAR (extrapolated) = 1.23 W/kg
SAR(1 g) = 0.879 mW/g; SAR(10 g) = 0.571 mW/g
Maximum value of SAR (measured) = 0.960 mW/g

0 dB = 0.960mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

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Date/Time: 10.07.2012 10:32:37Date/Time: 10.07.2012 10:40:38

IEEE1528-RightHandSide-WCDMA FDD II
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.4 mho/m; $ε_r$ = 39.3; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.923 mW/g

Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.9 V/m; Power Drift = 0.092 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.541 mW/g
Maximum value of SAR (measured) = 0.928 mW/g

0 dB = 0.928mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

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IEEE1528-RightHandSide-WCDMA FDD II
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used (interpolated): f = 1852.5 MHz; σ = 1.34 mho/m; ε_r = 39.6; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.288 mW/g

Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,
dy=5mm, dz=5mm
Reference Value = 14.8 V/m; Power Drift = -0.028 dB
Peak SAR (extrapolated) = 0.356 W/kg
SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.161 mW/g
Maximum value of SAR (measured) = 0.267 mW/g
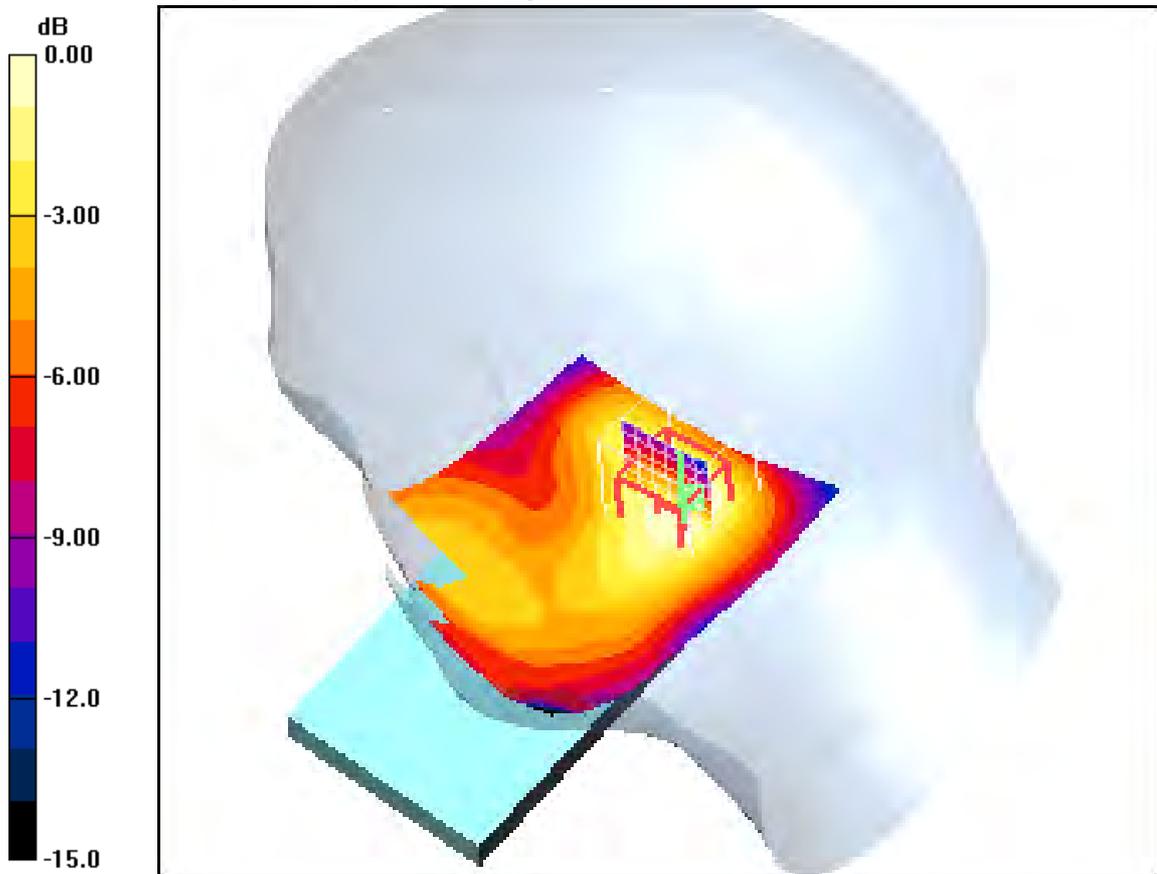
0 dB = 0.267mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

Date/Time: 10.07.2012 11:19:13Date/Time: 10.07.2012 11:27:24

IEEE1528-RightHandSide-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.37 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.360 mW/g

## Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.6 V/m; Power Drift = -0.036 dB
Peak SAR (extrapolated) = 0.425 W/kg
SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.188 mW/g
Maximum value of SAR (measured) = 0.324 mW/g
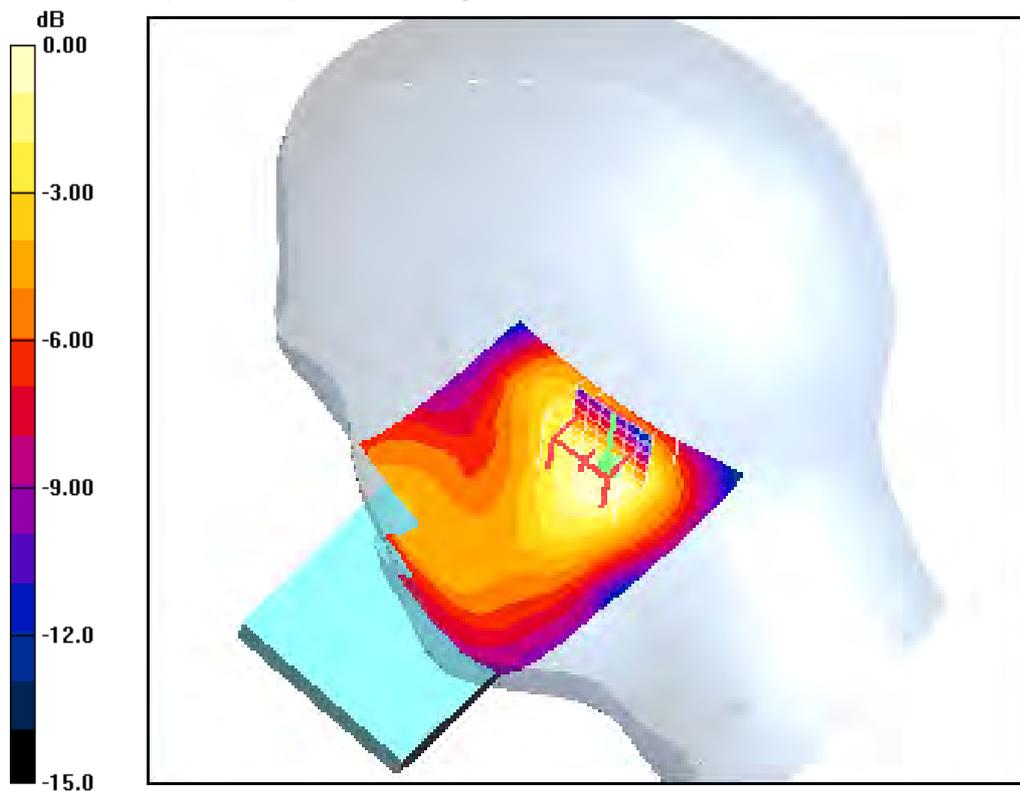
0 dB = 0.324mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

Date/Time: 10.07.2012 10:55:14Date/Time: 10.07.2012 11:04:34

IEEE1528-RightHandSide-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.4 mho/m; $ε_r$ = 39.3; ρ = 1000 kg/m^3
Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.330 mW/g

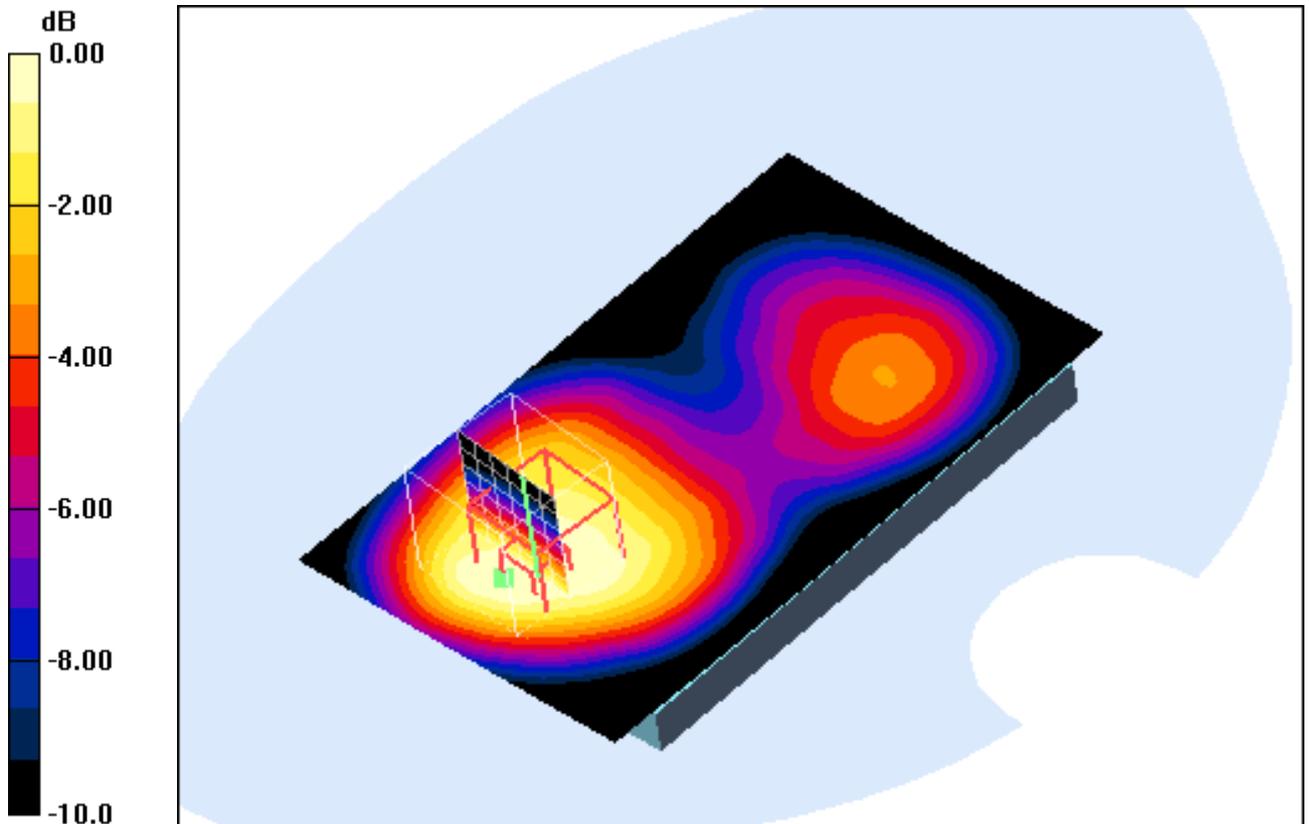## Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,
dy=5mm, dz=5mm
Reference Value = 15.2 V/m; Power Drift = 0.050 dB
Peak SAR (extrapolated) = 0.410 W/kg
SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.176 mW/g
Maximum value of SAR (measured) = 0.305 mW/g
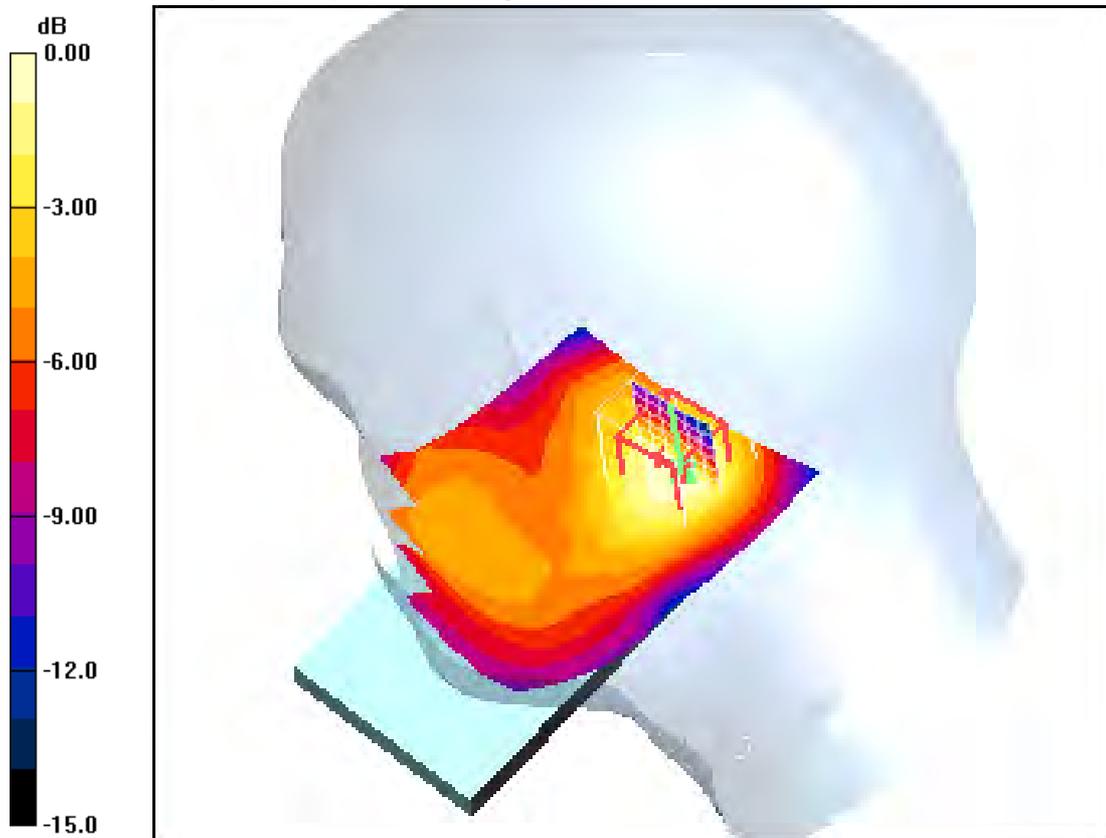
0 dB = 0.305mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

Date/Time: 10.07.2012 15:46:22Date/Time: 10.07.2012 15:57:08

IEEE1528-RightHandSide-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.37 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
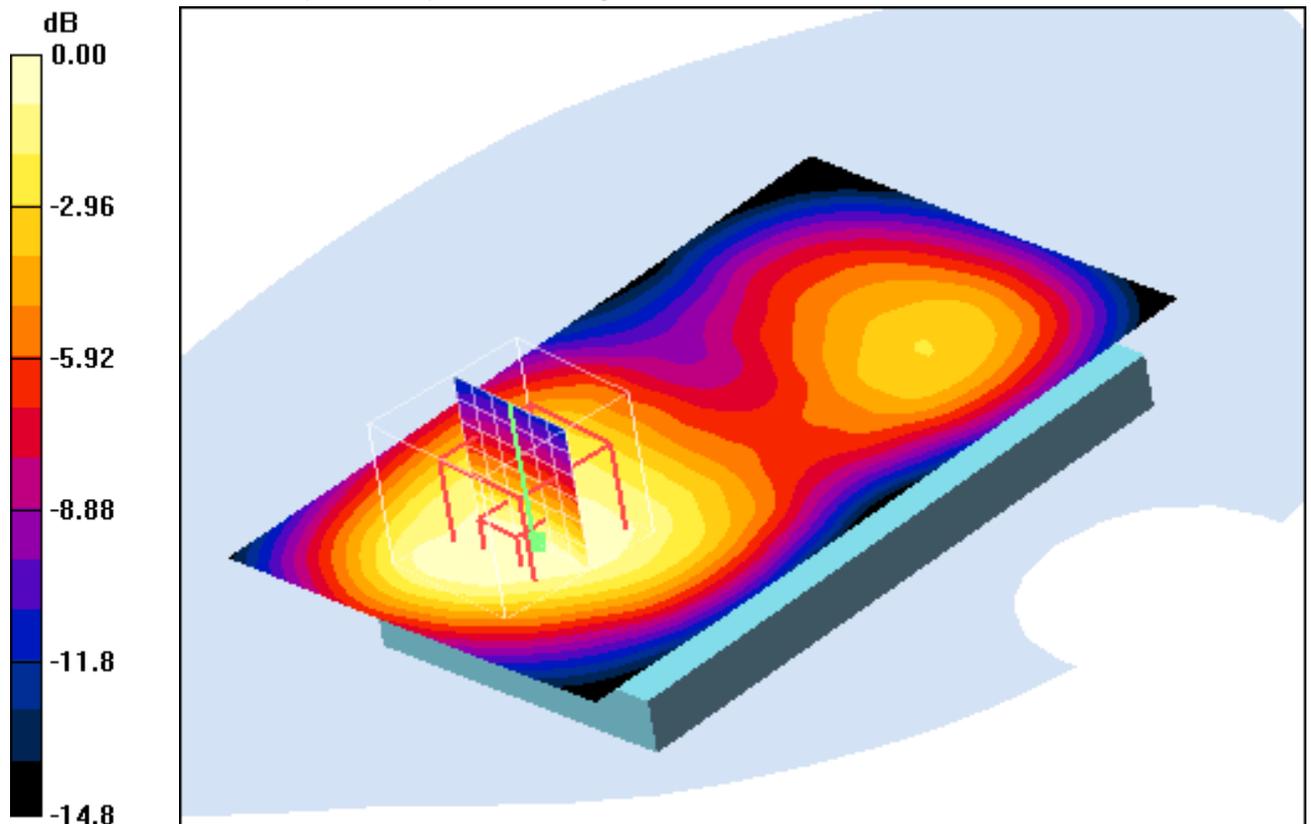Phantom section: Right Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.86, 4.86, 4.86); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Touch position - Middle WC/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.15 mW/g

Touch position - Middle WC/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30.4 V/m; Power Drift = 0.044 dB
Peak SAR (extrapolated) = 1.51 W/kg
SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.691 mW/g
Maximum value of SAR (measured) = 1.15 mW/g
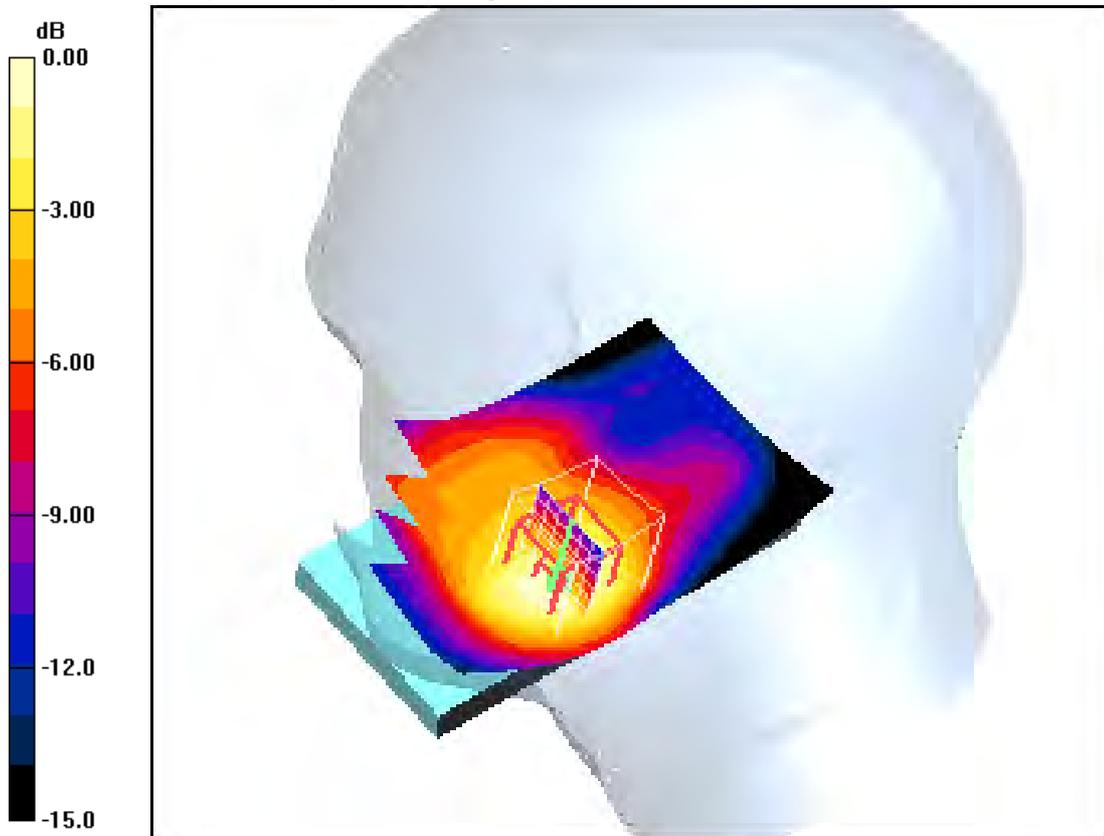
0 dB = 1.15mW/g

Additional information:
ambient temperature: 22.3°C; liquid temperature: 22.9°C

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Annex B.14: UMTS WCDMA FDD II 1900MHz body hotspot

Date/Time: 25.07.2012 08:37:46Date/Time: 25.07.2012 08:47:51

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used (interpolated): f = 1852.5 MHz; σ = 1.45 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.738 mW/g

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

dx=5mm, dy=5mm, dz=5mm
Reference Value = 23.7 V/m; Power Drift = -0.119 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.660 mW/g; SAR(10 g) = 0.429 mW/g
Maximum value of SAR (measured) = 0.711 mW/g

0 dB = 0.711mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.5°C

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.780 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x8x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.2 V/m; Power Drift = 0.096 dB
Peak SAR (extrapolated) = 1.19 W/kg
SAR(1 g) = 0.729 mW/g; SAR(10 g) = 0.473 mW/g
Maximum value of SAR (measured) = 0.788 mW/g

0 dB = 0.788mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.5°C

Date/Time: 25.07.2012 09:24:25Date/Time: 25.07.2012 09:32:41

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.52 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.617 mW/g

Front position - High/Zoom Scan (7x7x7) (7x8x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.0 V/m; Power Drift = -0.020 dB
Peak SAR (extrapolated) = 0.919 W/kg
SAR(1 g) = 0.556 mW/g; SAR(10 g) = 0.364 mW/g
Maximum value of SAR (measured) = 0.593 mW/g
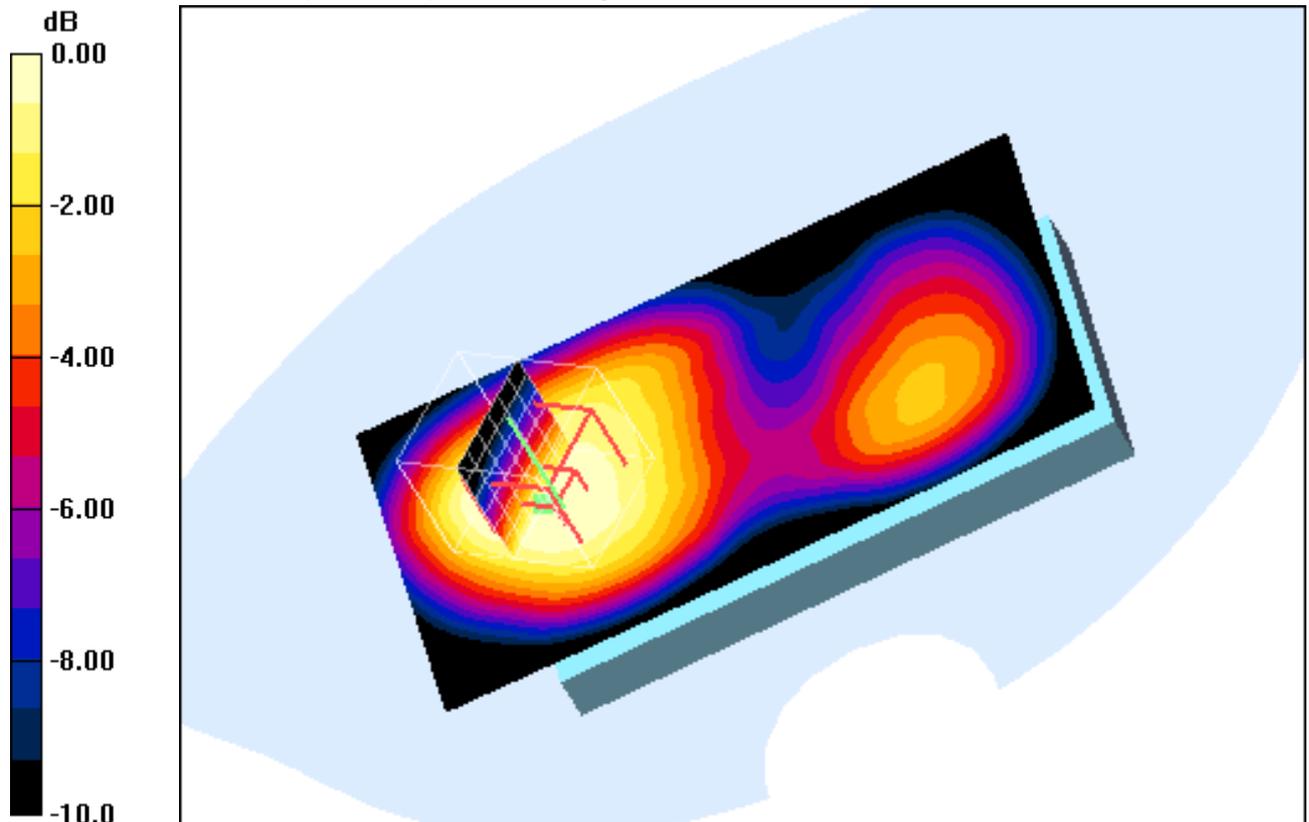
0 dB = 0.593mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.5°C

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used (interpolated): f = 1852.5 MHz; σ = 1.45 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.963 mW/g

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

dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.8 V/m; Power Drift = -0.028 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.883 mW/g; SAR(10 g) = 0.547 mW/g
Maximum value of SAR (measured) = 0.952 mW/g
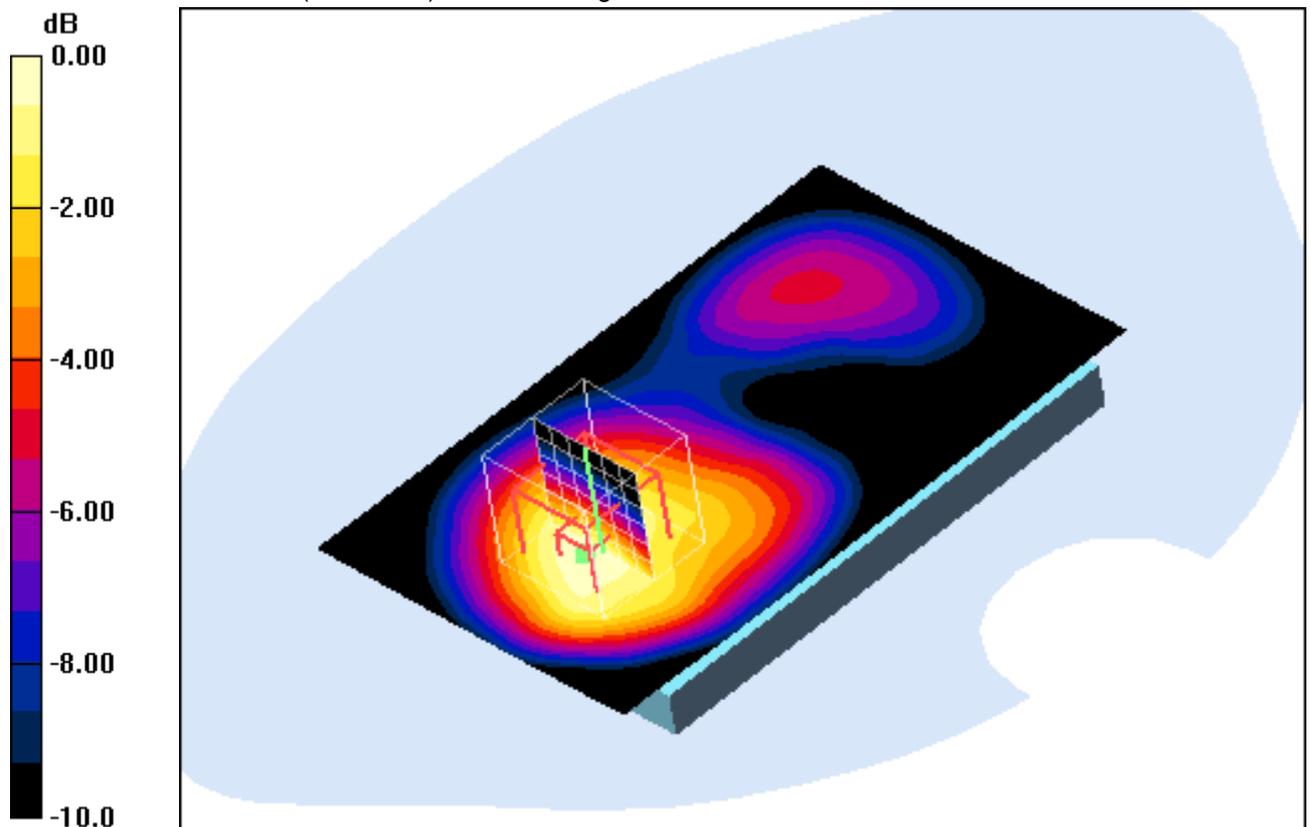
0 dB = 0.952mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.5°C

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.02 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.2 V/m; Power Drift = 0.042 dB
Peak SAR (extrapolated) = 1.54 W/kg
SAR(1 g) = 0.951 mW/g; SAR(10 g) = 0.589 mW/g
Maximum value of SAR (measured) = 1.03 mW/g
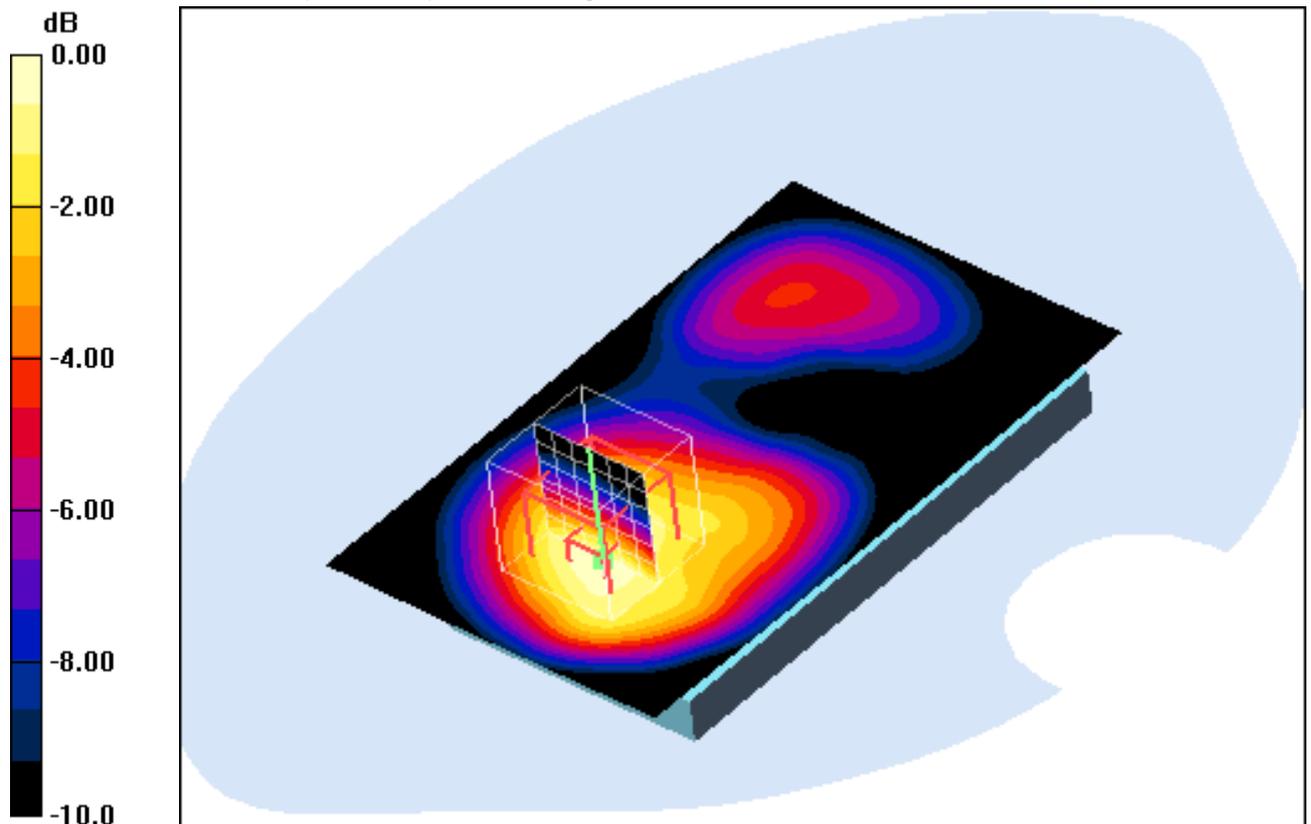
0 dB = 1.03mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.5°C

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Date/Time: 25.07.2012 10:30:42Date/Time: 25.07.2012 10:39:18

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M1900 Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.52 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- 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 (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.803 mW/g

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

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

Reference Value = 23.7 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.758 mW/g; SAR(10 g) = 0.472 mW/g

Maximum value of SAR (measured) = 0.820 mW/g
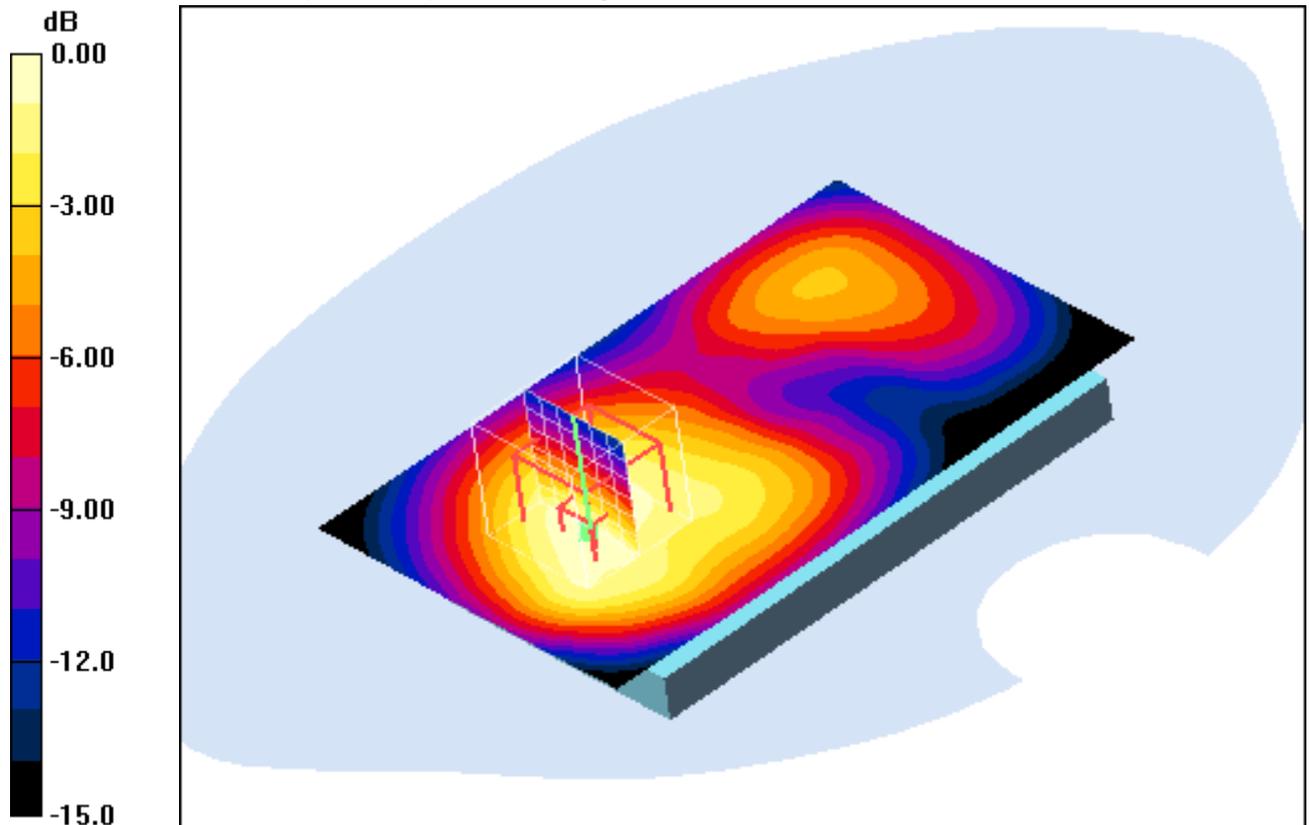
0 dB = 0.820mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 23.8°C; liquid temperature: 23.5°C

Date/Time: 25.07.2012 10:57:09Date/Time: 25.07.2012 11:04:23

OET65-Body-WCDMA FDD II
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge left position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.415 mW/g

Edge left position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.2 V/m; Power Drift = -0.033 dB
Peak SAR (extrapolated) = 0.596 W/kg
SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.222 mW/g
Maximum value of SAR (measured) = 0.401 mW/g
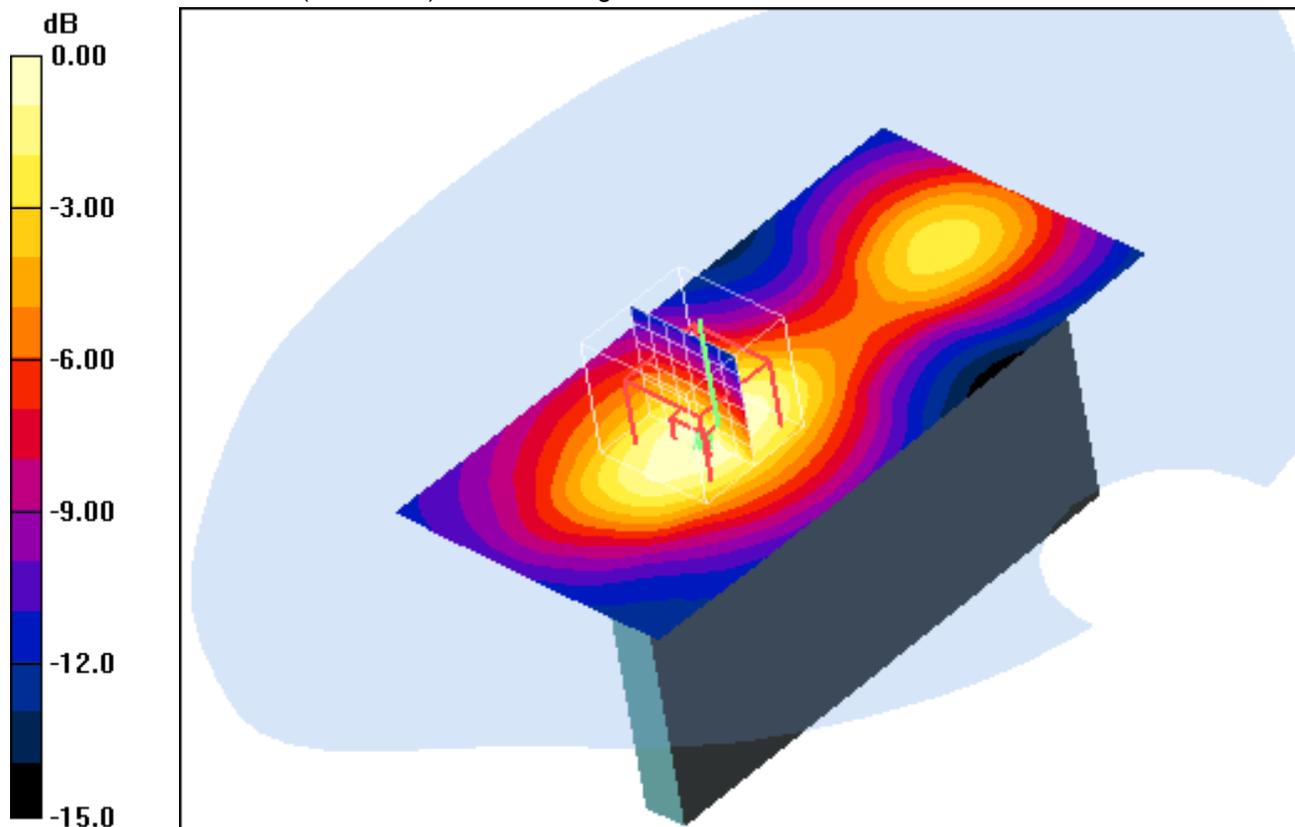
0 dB = 0.401mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.5°C

CETECOM™

Date/Time: 25.07.2012 11:17:58Date/Time: 25.07.2012 11:42:57

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge right position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.269 mW/g

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

Reference Value = 10.8 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 g) = 0.241 mW/g; SAR(10 g) = 0.147 mW/g

Maximum value of SAR (measured) = 0.261 mW/g

Edge right position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.377 W/kg

SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.146 mW/g

Maximum value of SAR (measured) = 0.255 mW/g
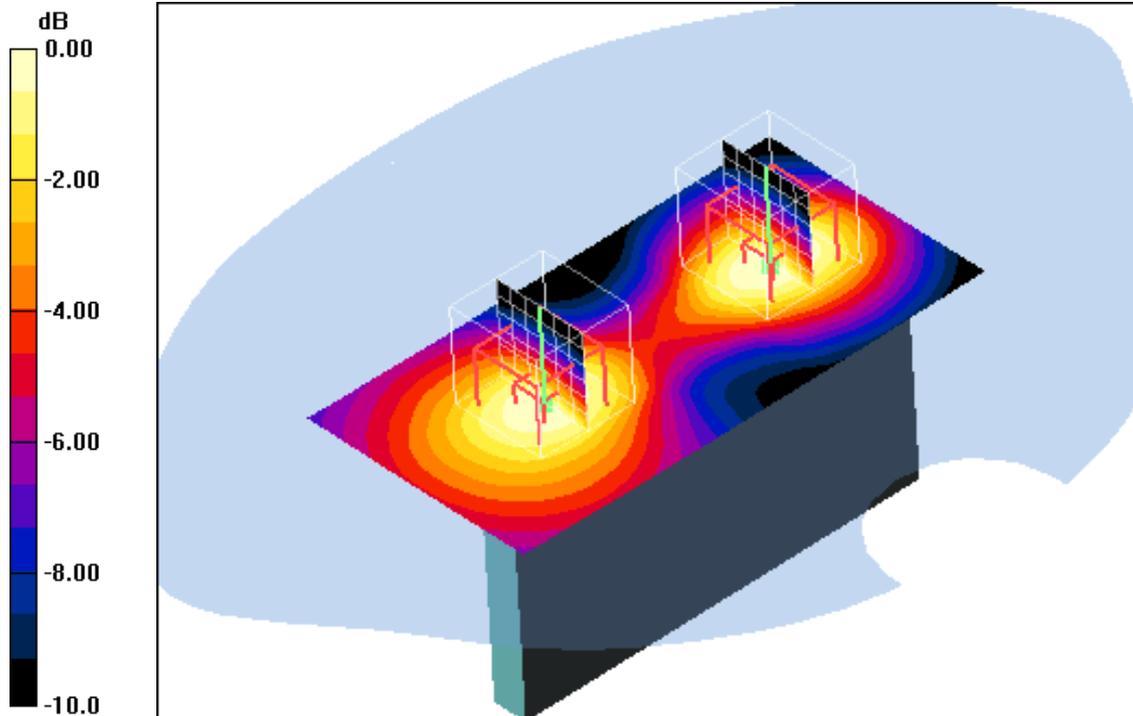
0 dB = 0.255mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 23.8°C; liquid temperature: 23.5°C

CETECOM™

Date/Time: 25.07.2012 12:52:01Date/Time: 25.07.2012 12:57:59

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

Communication System: WCDMA FDD II; Frequency: 1852.5 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used (interpolated): f = 1852.5 MHz; σ = 1.45 mho/m; $ε_r$ = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - Low/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.20 mW/g

## Edge bottom position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.8 V/m; Power Drift = -0.028 dB
Peak SAR (extrapolated) = 1.93 W/kg
SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.562 mW/g
Maximum value of SAR (measured) = 1.19 mW/g
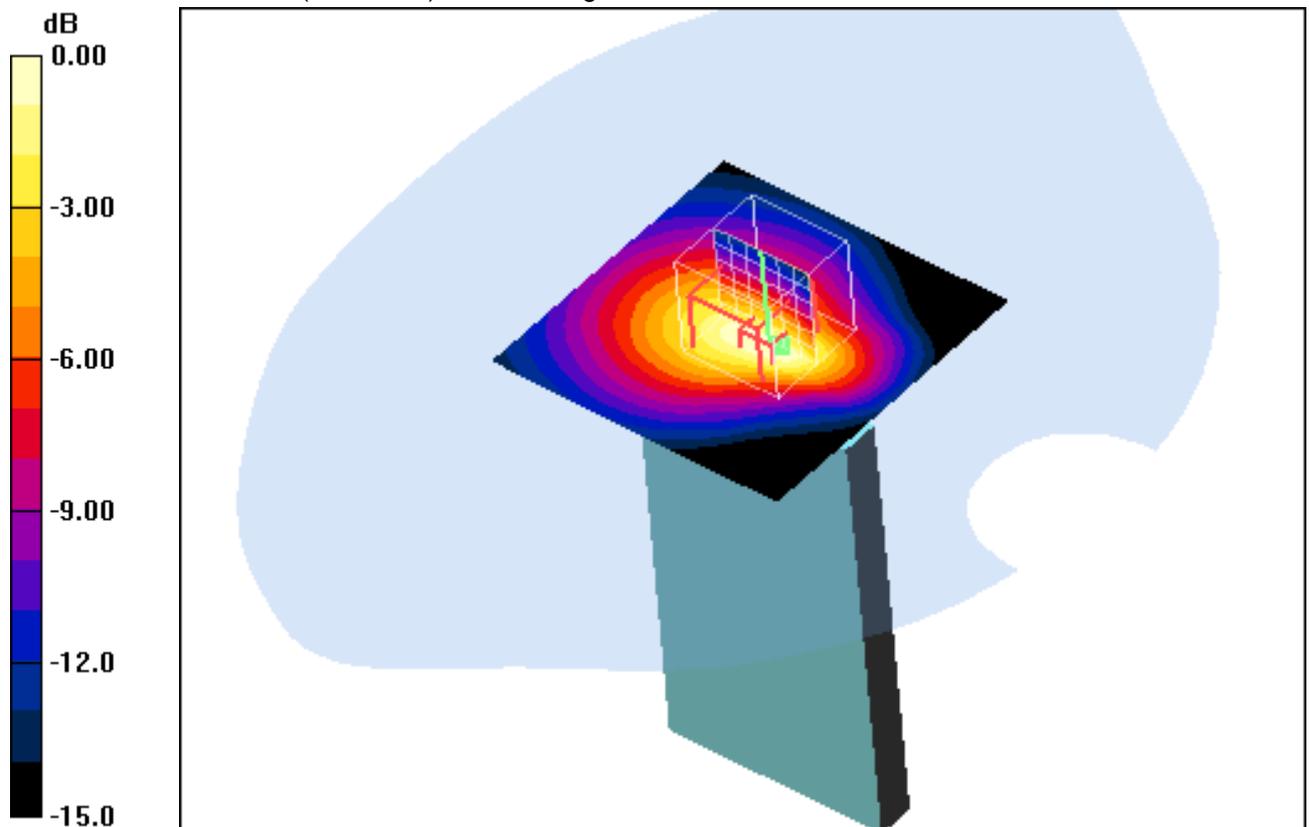
0 dB = 1.19mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.5°C

Date/Time: 25.07.2012 12:32:36Date/Time: 25.07.2012 12:38:17

OET65-Body-WCDMA FDD II
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - Middle/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.22 mW/g

## Edge bottom position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.4 V/m; Power Drift = 0.036 dB
Peak SAR (extrapolated) = 2.02 W/kg
SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.570 mW/g
Maximum value of SAR (measured) = 1.21 mW/g
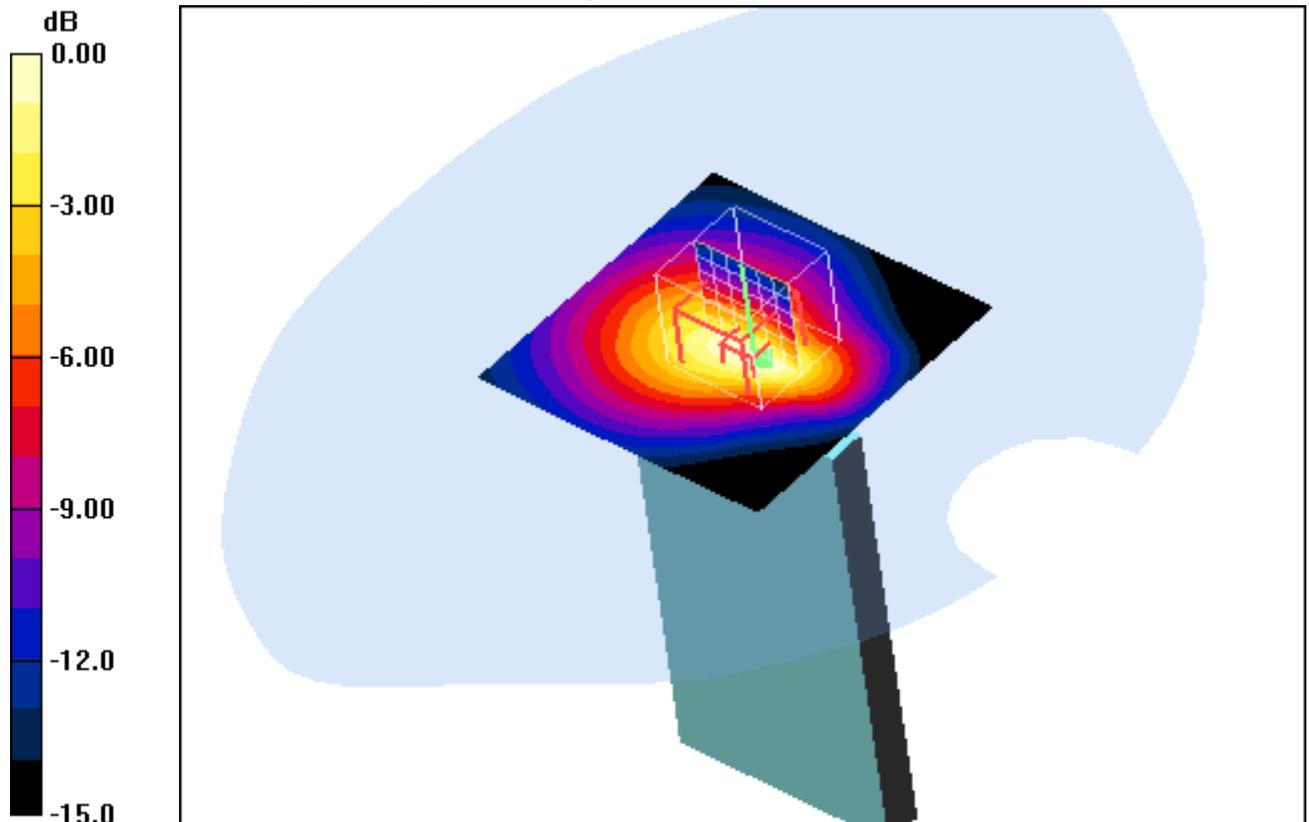
0 dB = 1.21mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.5°C

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Date/Time: 25.07.2012 13:10:34Date/Time: 25.07.2012 13:16:04

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.52 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - High/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.16 mW/g

Edge bottom position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.2 V/m; Power Drift = 0.040 dB
Peak SAR (extrapolated) = 1.88 W/kg
SAR(1 g) = 1 mW/g; SAR(10 g) = 0.527 mW/g
Maximum value of SAR (measured) = 1.13 mW/g
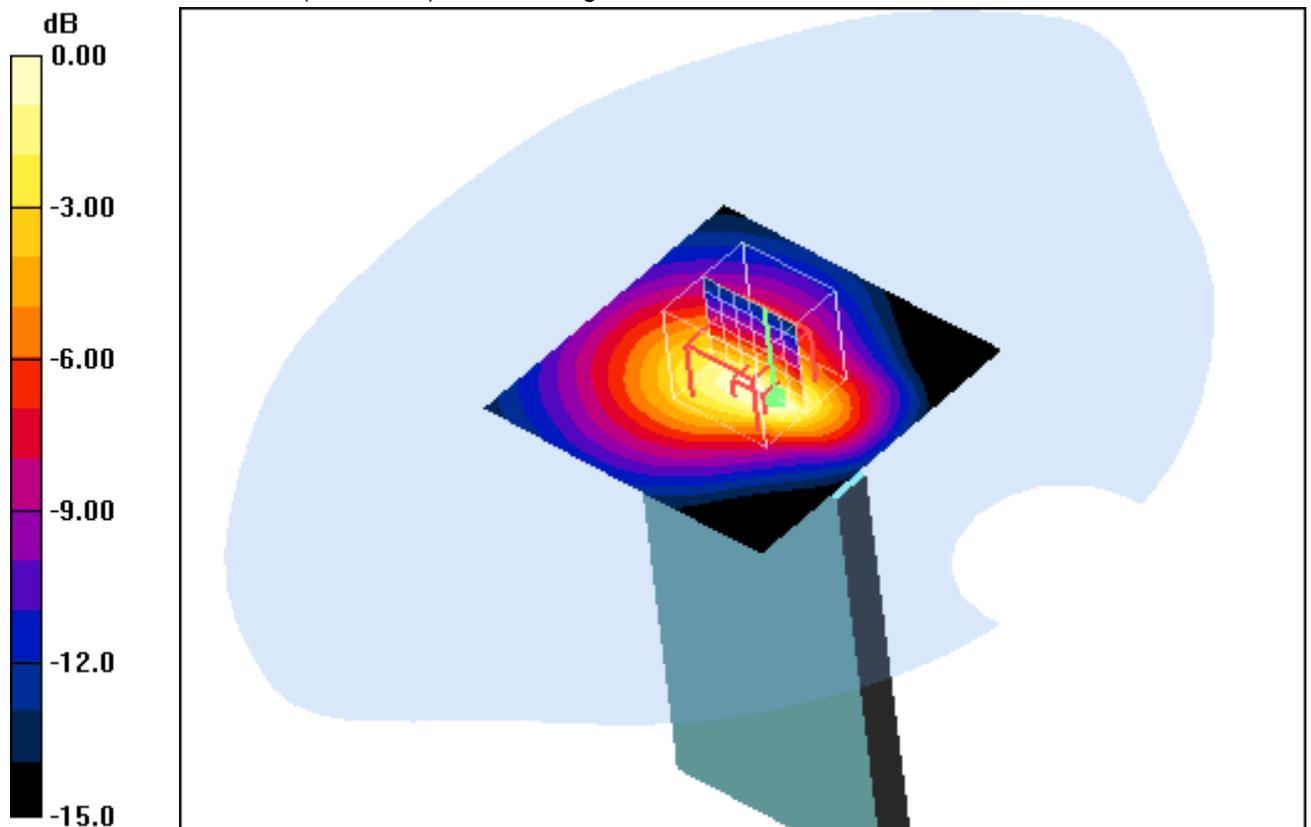
0 dB = 1.13mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.5°C

Date/Time: 26.07.2012 10:33:04Date/Time: 26.07.2012 10:40:14

OET65-Body-WCDMA FDD II
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Edge bottom position - Middle WC/Area Scan (61x61x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.18 mW/g

Edge bottom position - Middle WC/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.0 V/m; Power Drift = 0.120 dB
Peak SAR (extrapolated) = 1.93 W/kg
SAR(1 g) = 1.03 mW/g; SAR(10 g) = 0.542 mW/g
Maximum value of SAR (measured) = 1.18 mW/g
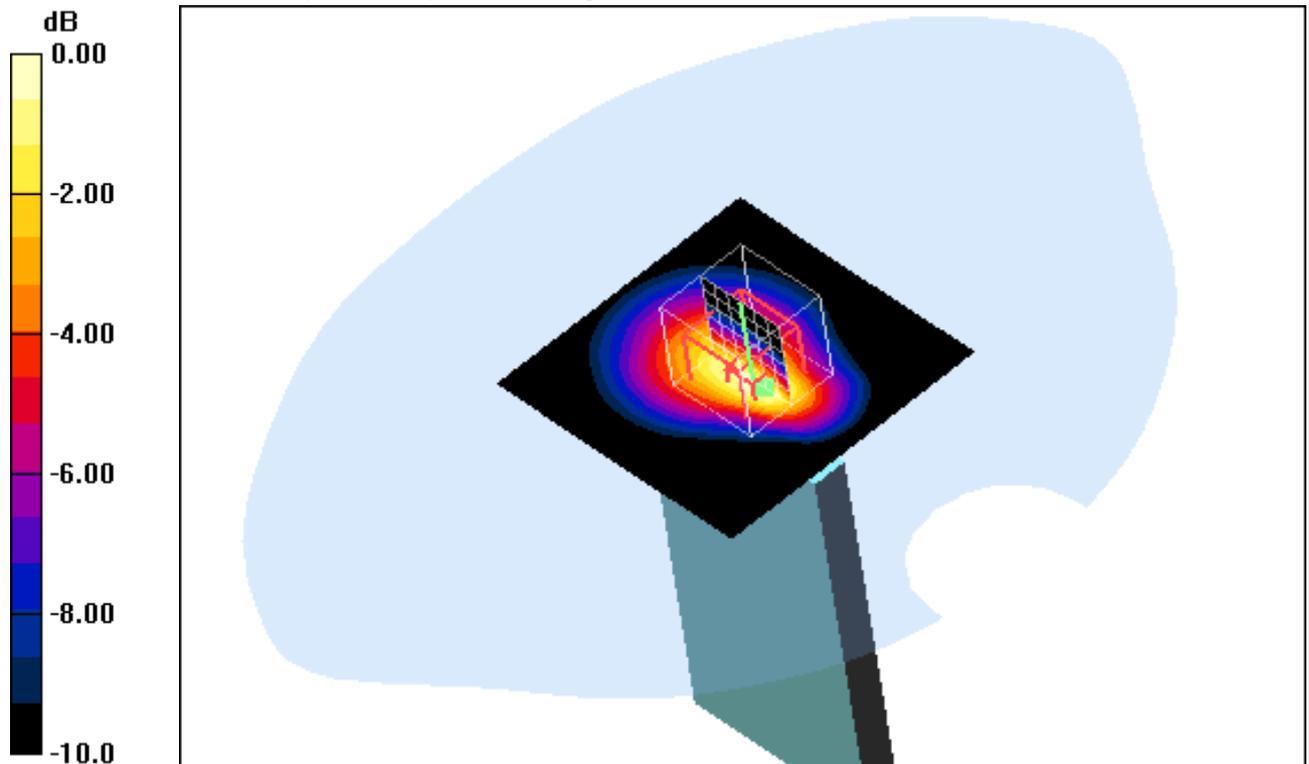
0 dB = 1.18mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.8°C; liquid temperature: 23.5°C

Annex B.15: UMTS WCDMA FDD II 1900MHz body worn

Date/Time: 25.07.2012 14:01:25Date/Time: 25.07.2012 14:09:00

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M1900 Medium parameters used (interpolated): f = 1852.5 MHz; σ = 1.45 mho/m; $ε_r$ = 52.8; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Low 15mm/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.864 mW/g

Rear position - Low 15mm/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement

grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.3 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.796 mW/g; SAR(10 g) = 0.503 mW/g

Maximum value of SAR (measured) = 0.862 mW/g
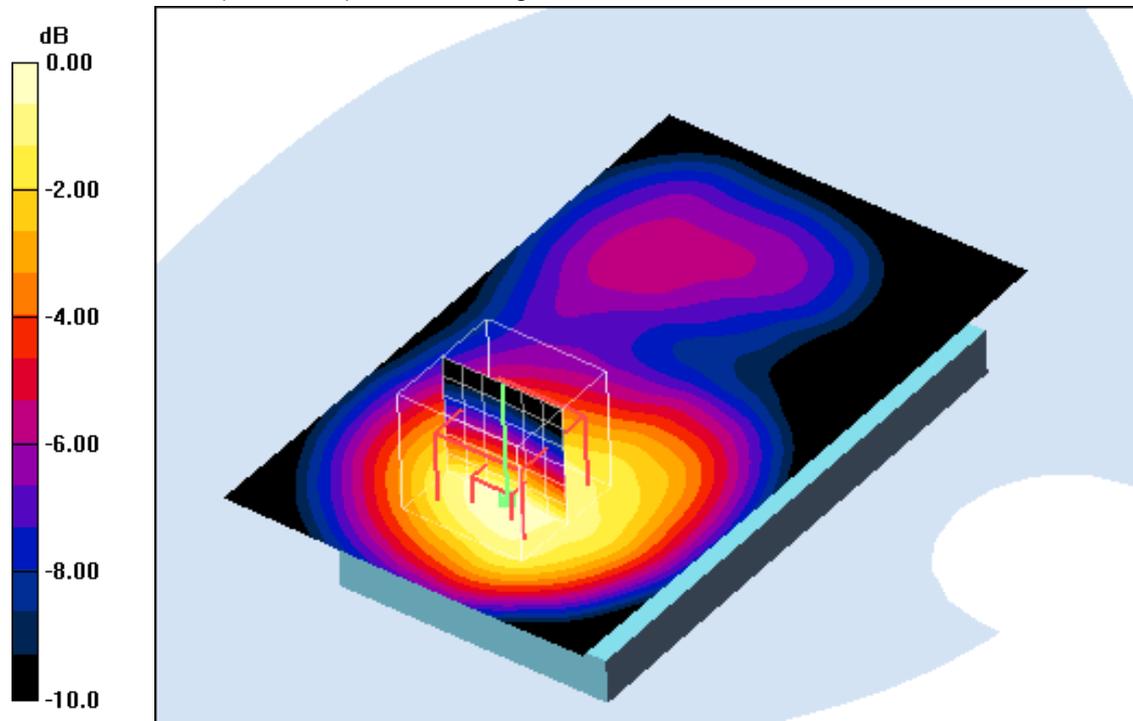
0 dB = 0.862mW/g

Additional information:

position or distance of DUT to SAM: 15 mm with headset

ambient temperature: 23.8°C; liquid temperature: 23.5°C

Date/Time: 25.07.2012 13:37:44Date/Time: 25.07.2012 13:46:25

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0

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

Medium: M1900 Medium parameters used: f = 1880 MHz; σ = 1.48 mho/m; ε_r = 52.8; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - Middle 15mm/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.959 mW/g

Rear position - Middle 15mm/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.4 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.884 mW/g; SAR(10 g) = 0.559 mW/g

Maximum value of SAR (measured) = 0.950 mW/g
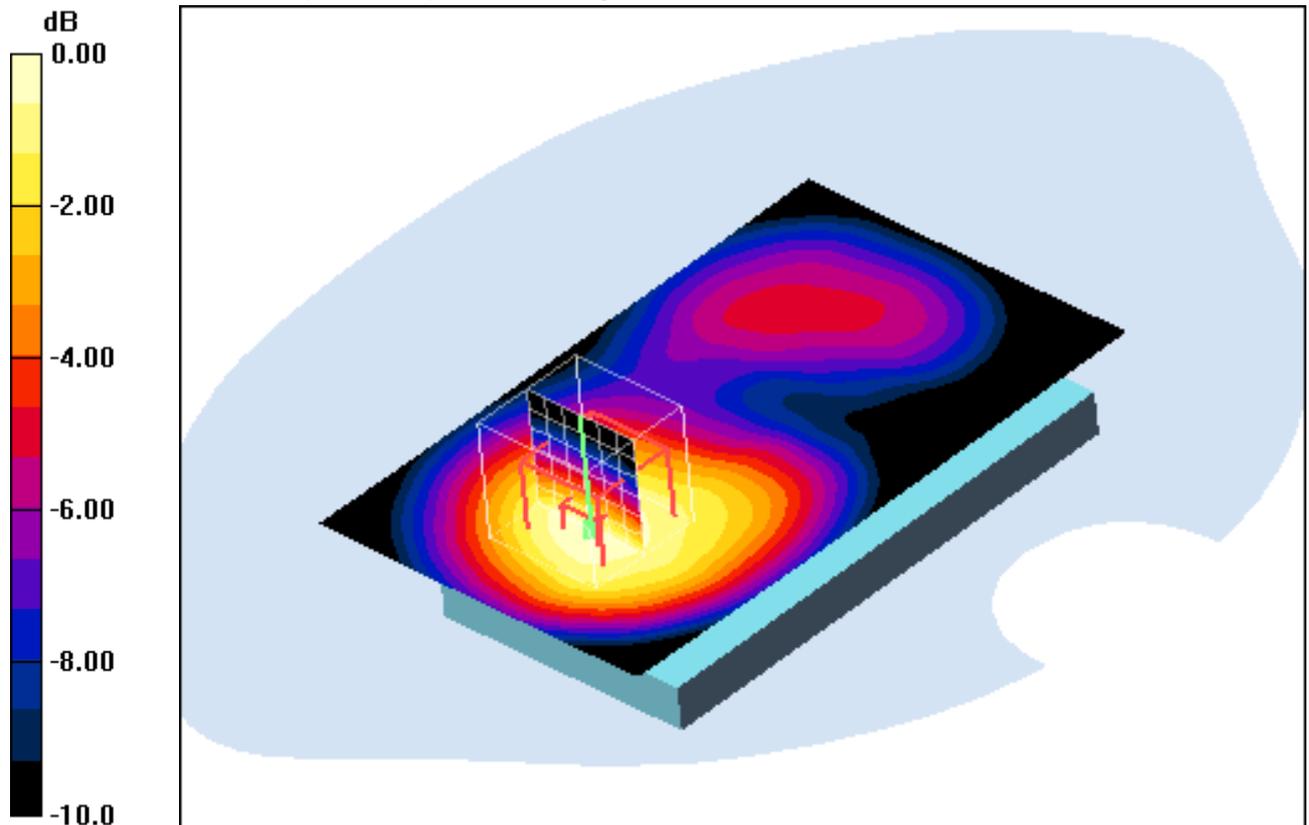
0 dB = 0.950mW/g

Additional information:

position or distance of DUT to SAM: 15 mm with headset

ambient temperature: 23.8°C; liquid temperature: 23.5°C

Date/Time: 25.07.2012 14:22:19Date/Time: 25.07.2012 14:29:56

OET65-Body-WCDMA FDD II

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZXHQ0
Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium: M1900 Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.52 mho/m; ε_r = 52.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY4 Configuration:
- Probe: ET3DV6 - SN1558; ConvF(4.3, 4.3, 4.3); Calibrated: 23.08.2011
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn413; Calibrated: 12.01.2012
- Phantom: SAM 12; Type: SAM; Serial: 1043
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Rear position - High 15mm/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.722 mW/g

Rear position - High 15mm/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.9 V/m; Power Drift = -0.050 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.663 mW/g; SAR(10 g) = 0.420 mW/g
Maximum value of SAR (measured) = 0.711 mW/g
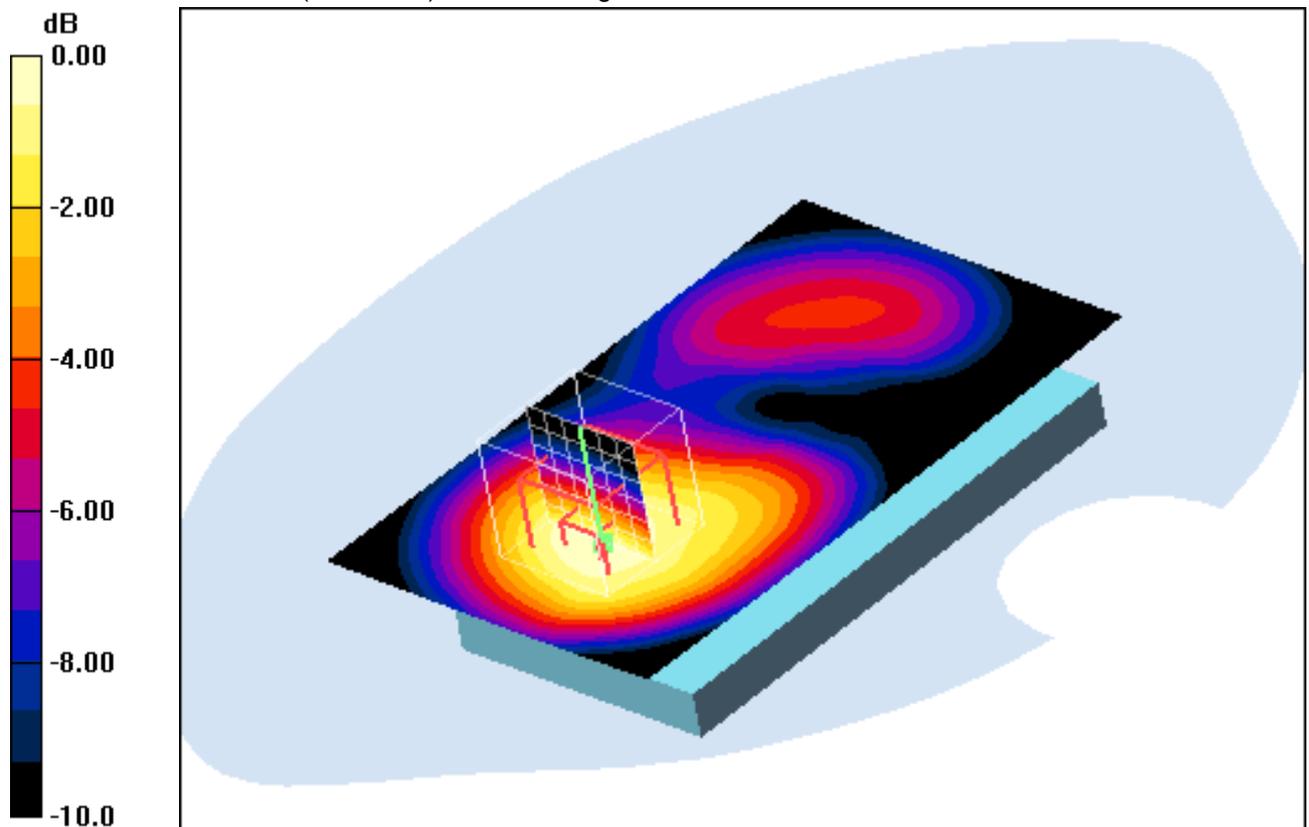
0 dB = 0.711mW/g

Additional information:
position or distance of DUT to SAM: 15 mm with headset
ambient temperature: 23.8°C; liquid temperature: 23.5°C

Annex B.16: WLAN 2450MHz head

Date/Time: 23.07.2012 13:27:40

IEEE1528_EN62209-LeftHandSide-WLAN2450.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 2450 US; Frequency: 2412 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2412 MHz; σ = 1.81 mho/m; ε_r = 39.5; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Touch position - Low/Area Scan (61x101x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.661 mW/g

LeftHandSide/Touch position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.077 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.234 mW/g
SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.300 mW/g
Maximum value of SAR (measured) = 0.581 mW/g
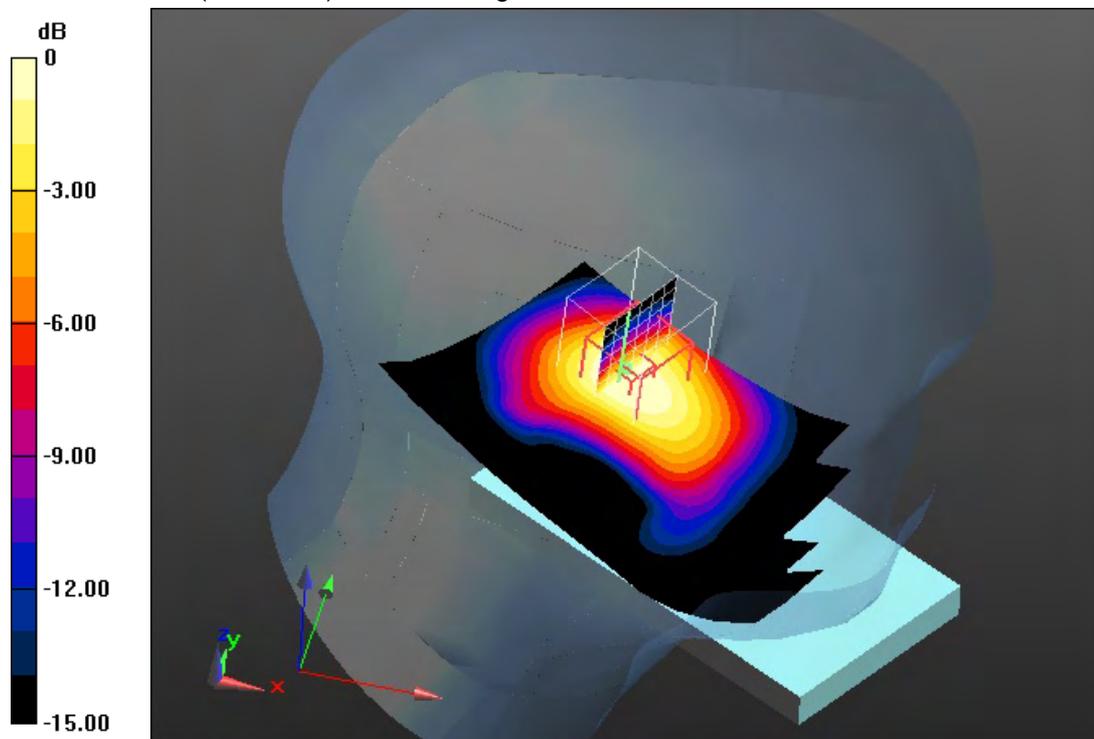
0 dB = 0.581 mW/g = -4.72 dB mW/g

Additional information:
ambient temperature: 23.6°C; liquid temperature: 22.6°C

Date/Time: 23.07.2012 13:47:47

IEEE1528_EN62209-LeftHandSide-WLAN2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2437 MHz; σ = 1.84 mho/m; $ε_r$ = 39.4; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Touch position - Middle/Area Scan (61x101x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.530 mW/g

## LeftHandSide/Touch position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.638 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.075 mW/g
SAR(1 g) = 0.426 mW/g; SAR(10 g) = 0.226 mW/g
Maximum value of SAR (measured) = 0.455 mW/g
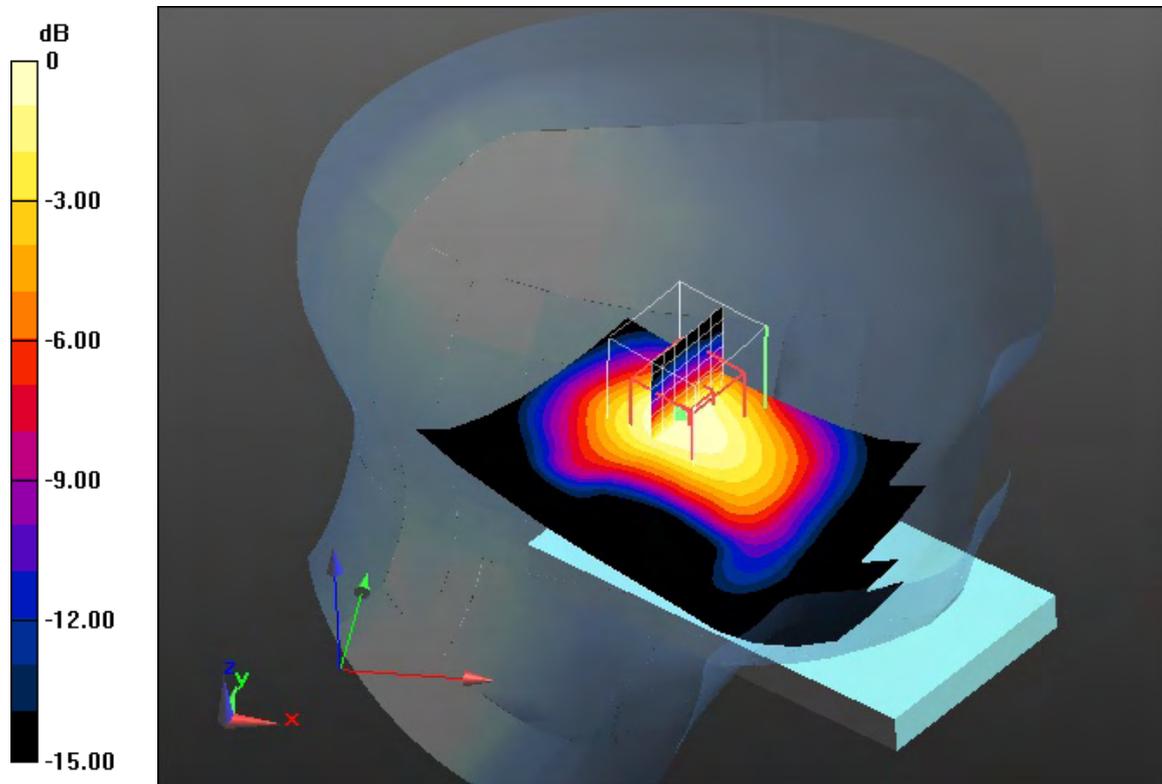
0 dB = 0.455 mW/g = -6.84 dB mW/g

Additional information:
ambient temperature: 23.6°C; liquid temperature: 22.6°C

Date/Time: 24.07.2012 09:39:32

IEEE1528_EN62209-LeftHandSide-WLAN2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2462 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2462 MHz; σ = 1.86 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Touch position - High/Area Scan (61x101x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.369 mW/g

LeftHandSide/Touch position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.440 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.805 mW/g
SAR(1 g) = 0.310 mW/g; SAR(10 g) = 0.152 mW/g
Maximum value of SAR (measured) = 0.343 mW/g
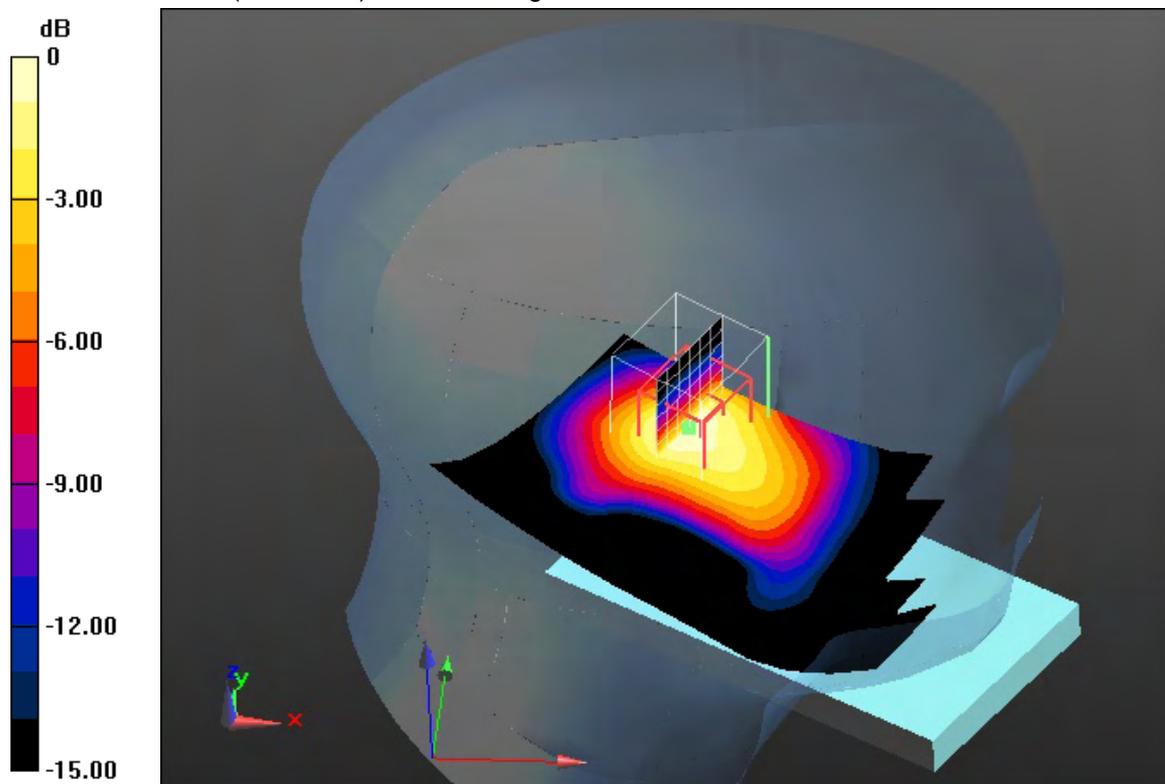
0 dB = 0.343 mW/g = -9.29 dB mW/g

Additional information:
ambient temperature: 23.6°C; liquid temperature: 22.6°C

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IEEE1528_EN62209-LeftHandSide-WLAN2450.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 2450 US; Frequency: 2412 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 2412 MHz; σ = 1.81 mho/m; $ε_r$ = 39.5; ρ = 1000 kg/m^3

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Tilt position - Low/Area Scan (61x101x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.535 mW/g

## LeftHandSide/Tilt position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.545 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.037 mW/g

SAR(1 g) = 0.433 mW/g; SAR(10 g) = 0.221 mW/g
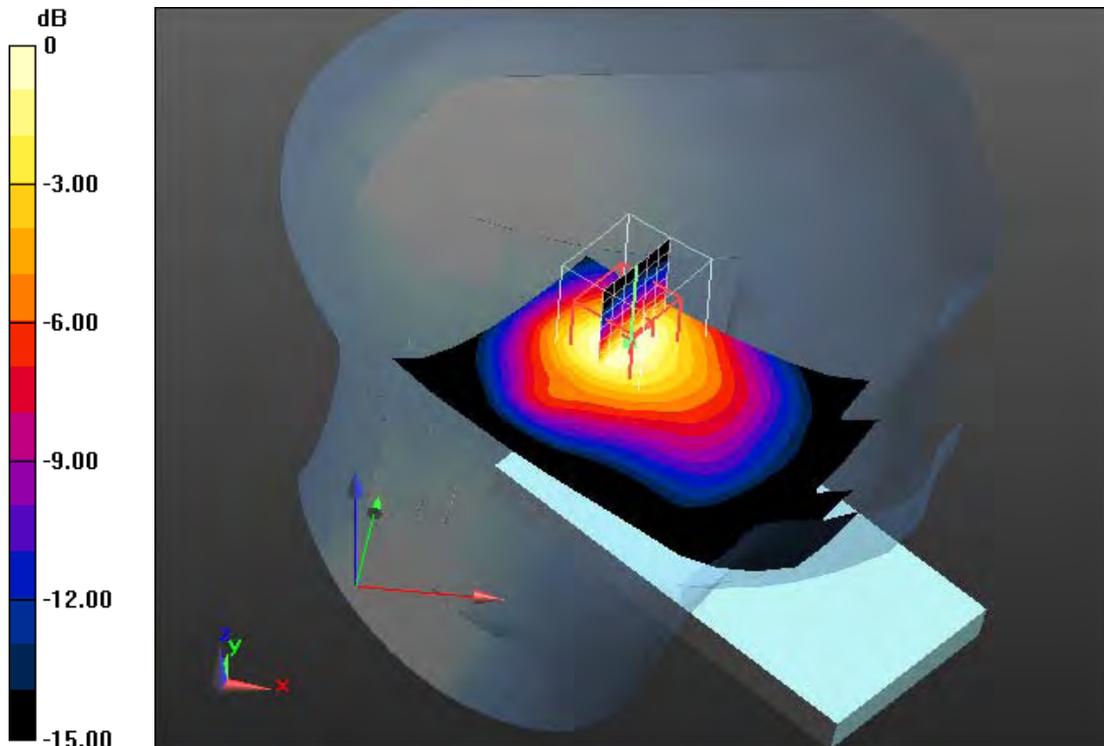
Maximum value of SAR (measured) = 0.464 mW/g

0 dB = 0.464 mW/g = -6.67 dB mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.6°C

Date/Time: 23.07.2012 14:06:14

IEEE1528_EN62209-LeftHandSide-WLAN2450.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 2450 US; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 2437 MHz; σ = 1.84 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Tilt position - Middle/Area Scan (61x101x1): Measurement grid:

dx=15mm, dy=15mm

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

## LeftHandSide/Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.845 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.839 mW/g

SAR(1 g) = 0.334 mW/g; SAR(10 g) = 0.165 mW/g

Maximum value of SAR (measured) = 0.368 mW/g
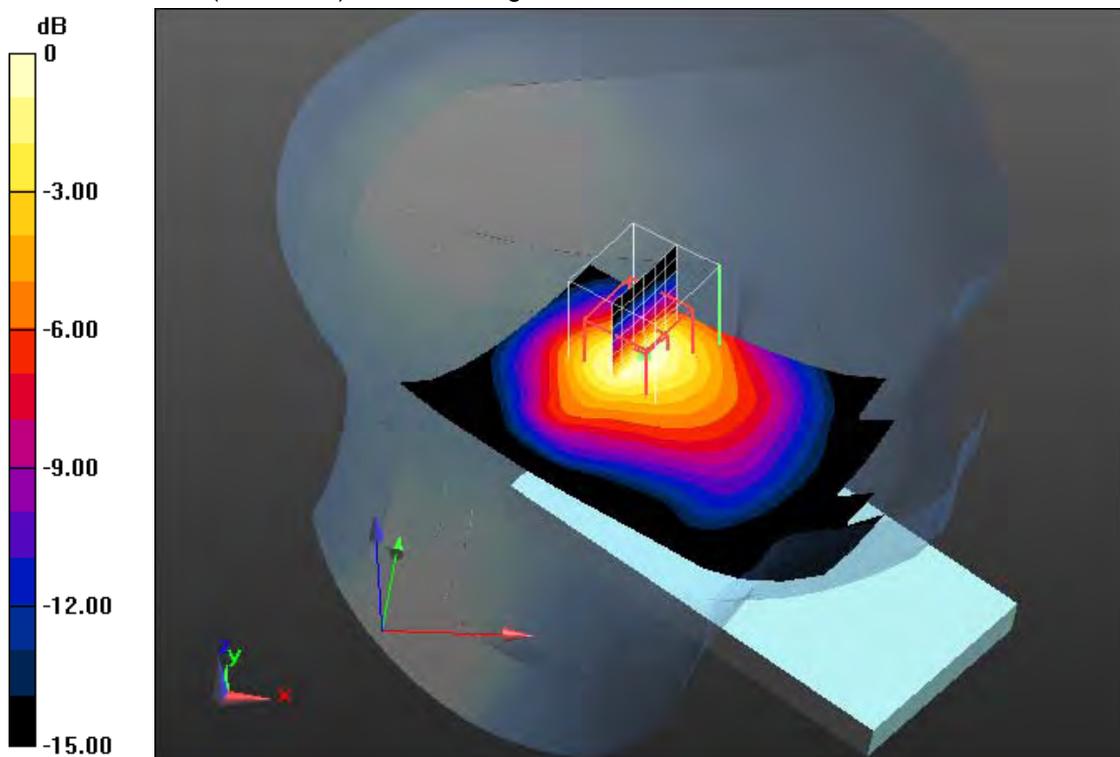
0 dB = 0.368 mW/g = -8.68 dB mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.6°C

Date/Time: 24.07.2012 09:15:41

IEEE1528_EN62209-LeftHandSide-WLAN2450.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 2450 US; Frequency: 2462 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 2462 MHz; σ = 1.86 mho/m; $ε_r$ = 39.4; ρ = 1000 kg/m^3

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Tilt position - High/Area Scan (61x101x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.311 mW/g

## LeftHandSide/Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.819 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.700 mW/g

SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.125 mW/g

Maximum value of SAR (measured) = 0.293 mW/g
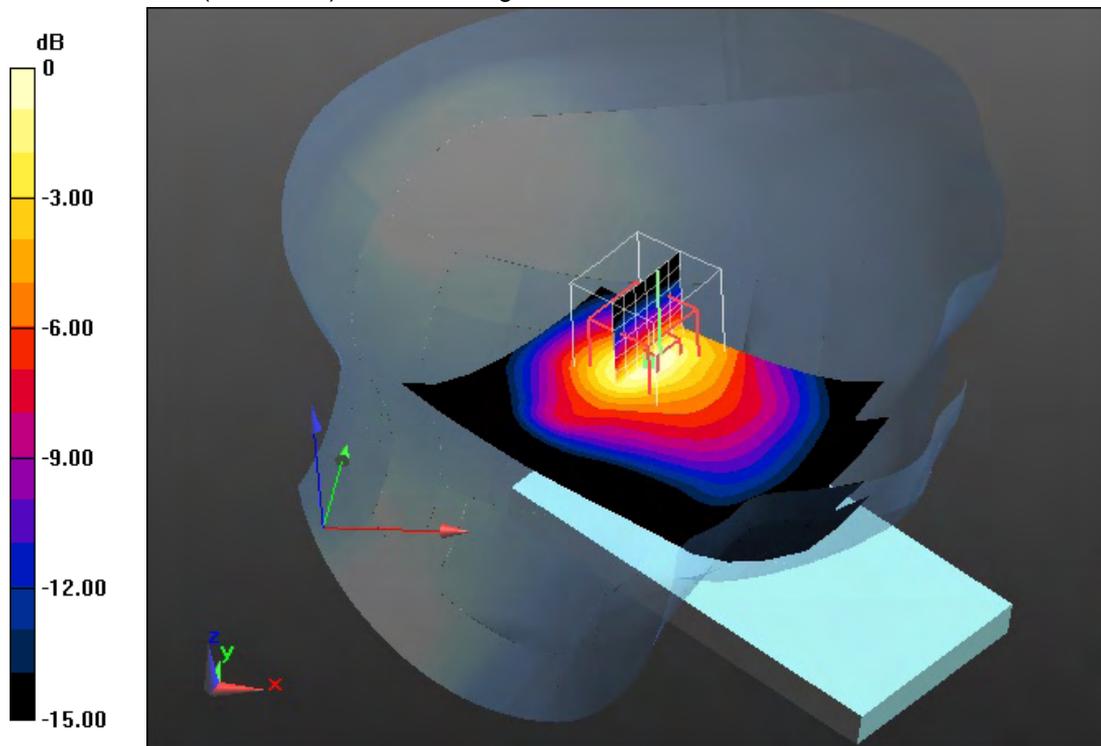
0 dB = 0.293 mW/g = -10.66 dB mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.6°C

Date/Time: 24.07.2012 13:50:50

IEEE1528_EN62209-LeftHandSide-WLAN2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2412 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2412 MHz; σ = 1.81 mho/m; $ε_r$ = 39.5; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Touch position - Low WC/Area Scan (61x101x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.686 mW/g

LeftHandSide/Touch position - Low WC/Zoom Scan (7x7x7) (7x7x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.988 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.263 mW/g
SAR(1 g) = 0.616 mW/g; SAR(10 g) = 0.332 mW/g
Maximum value of SAR (measured) = 0.671 mW/g
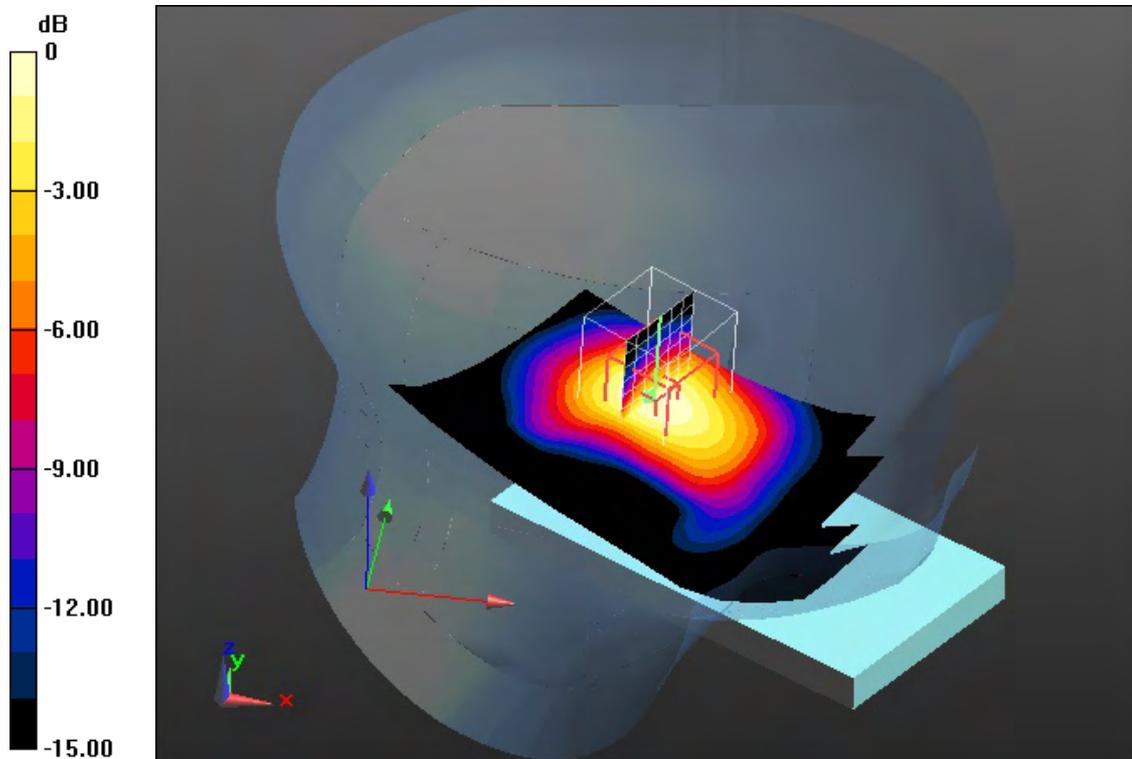
0 dB = 0.671 mW/g = -3.47 dB mW/g

Additional information:
ambient temperature: 23.6°C; liquid temperature: 22.6°C

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Date/Time: 23.07.2012 15:22:04

IEEE1528_EN62209-RightHandSide-WLAN2450.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 2450 US; Frequency: 2412 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 2412 MHz; σ = 1.81 mho/m; $ε_r$ = 39.5; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Touch position - Low/Area Scan (61x101x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.285 mW/g

## Configuration/Touch position - Low/Zoom Scan (7x7x7) (7x14x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.509 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.534 mW/g

SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.285 mW/g
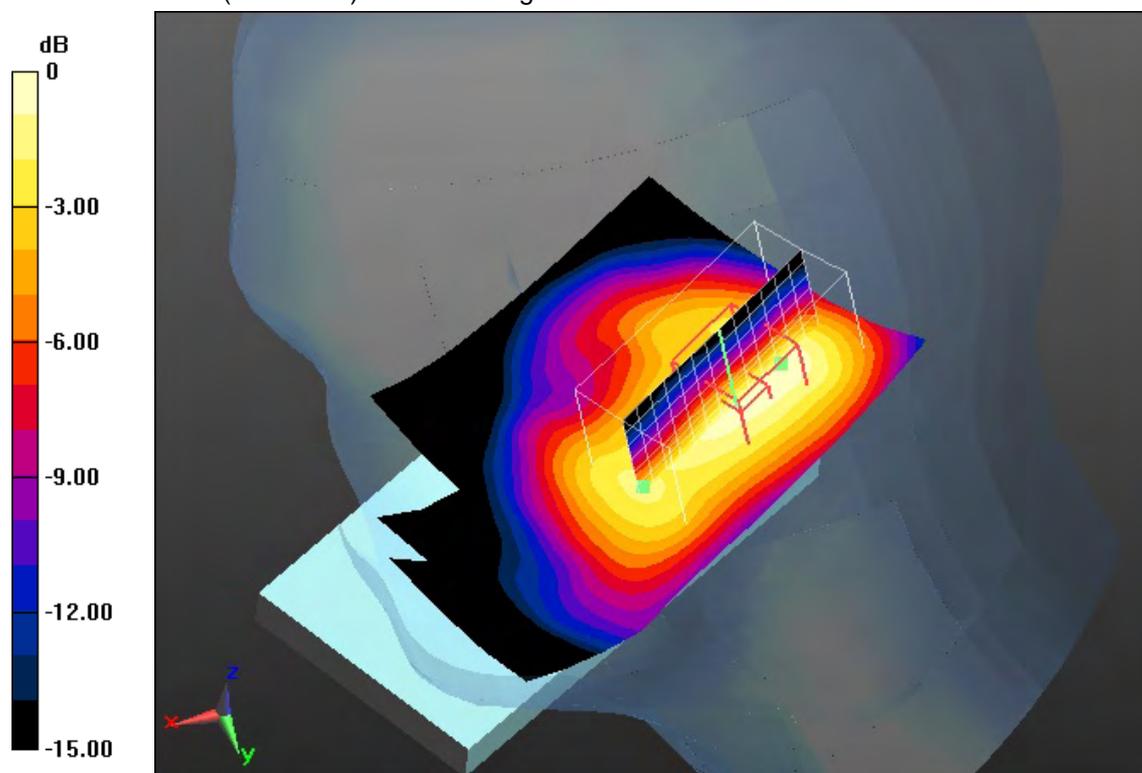
0 dB = 0.285 mW/g = -10.90 dB mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.6°C

Date/Time: 23.07.2012 17:19:37

IEEE1528_EN62209-RightHandSide-WLAN2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2437 MHz; σ = 1.84 mho/m; $ε_r$ = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Touch position - Middle/Area Scan (61x101x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.213 mW/g

## Configuration/Touch position - Middle/Zoom Scan (7x7x7) (7x14x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.711 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.404 mW/g
SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.107 mW/g
Maximum value of SAR (measured) = 0.215 mW/g
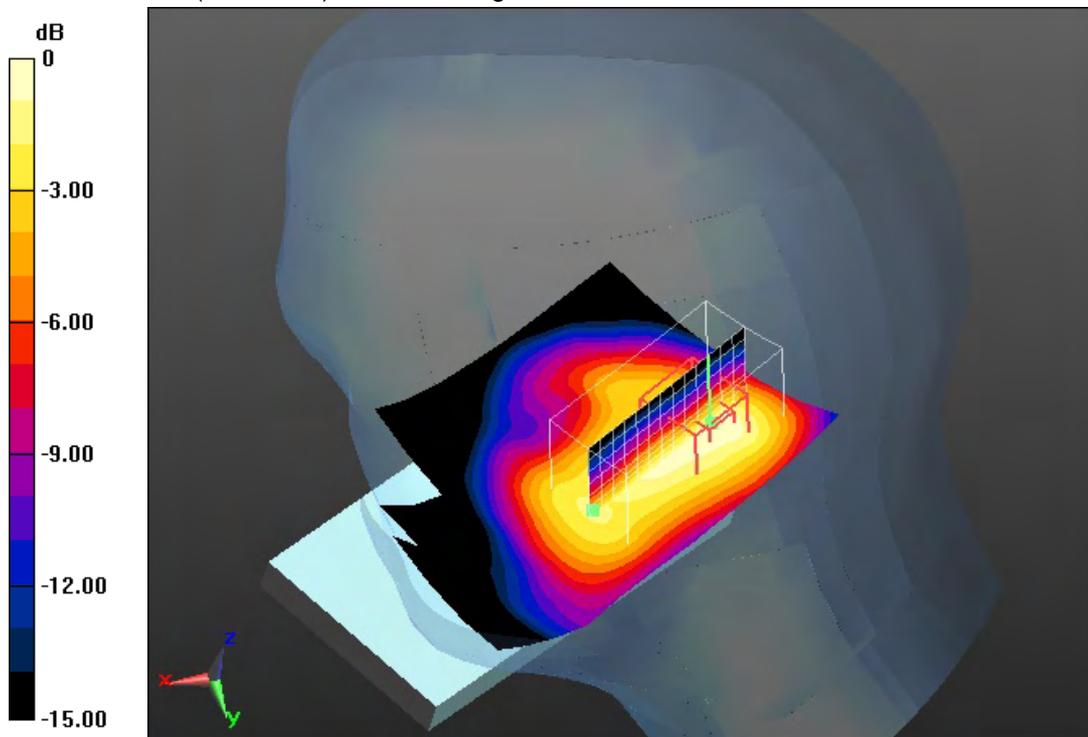
0 dB = 0.215 mW/g = -13.35 dB mW/g

Additional information:
ambient temperature: 23.6°C; liquid temperature: 22.6°C

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Date/Time: 23.07.2012 17:50:32

IEEE1528_EN62209-RightHandSide-WLAN2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 2450 US; Frequency: 2462 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2462 MHz; σ = 1.86 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Touch position - High/Area Scan (61x101x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.137 mW/g

Configuration/Touch position - High/Zoom Scan (7x7x7) 2 (7x14x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.504 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.267 mW/g
SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.071 mW/g
Maximum value of SAR (measured) = 0.144 mW/g
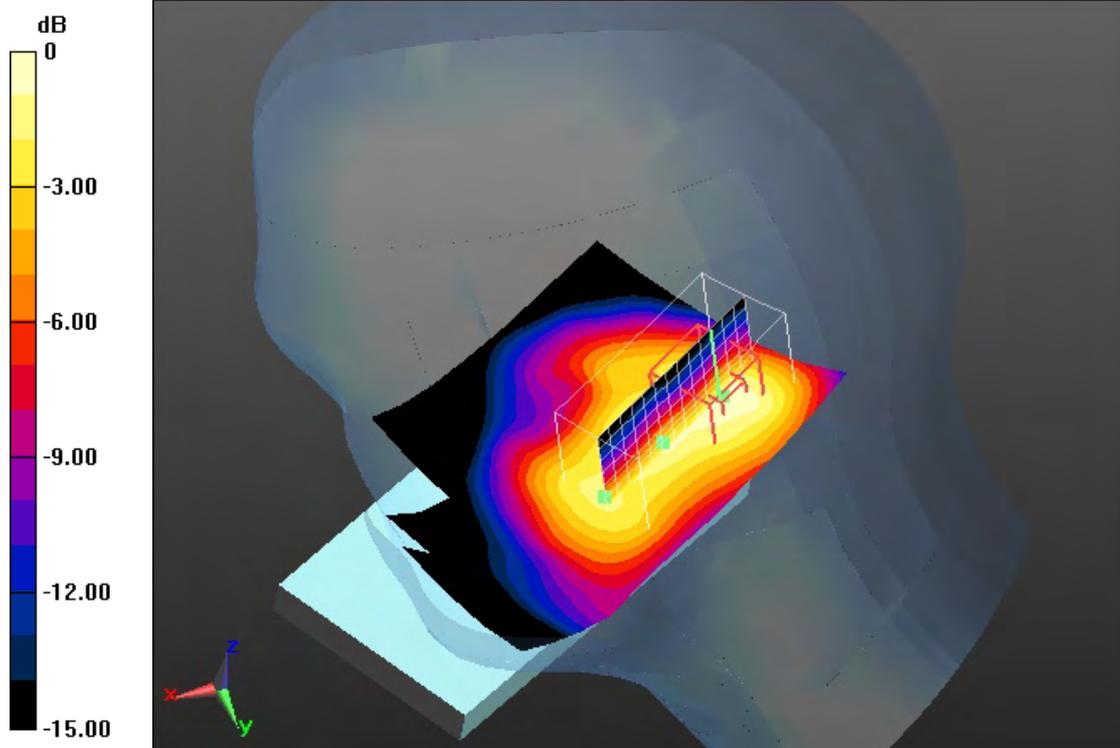
0 dB = 0.144 mW/g = -16.83 dB mW/g

Additional information:
ambient temperature: 23.6°C; liquid temperature: 22.6°C

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Date/Time: 23.07.2012 15:57:07

IEEE1528_EN62209-RightHandSide-WLAN2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 2450 US; Frequency: 2412 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 2412 MHz; σ = 1.81 mho/m; $ε_r$ = 39.5; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY4 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Tilt position - Low/Area Scan (61x101x1): Measurement grid:
dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.252 mW/g

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

Reference Value = 11.367 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.486 mW/g

SAR(1 g) = 0.239 mW/g; SAR(10 g) = 0.127 mW/g

Maximum value of SAR (measured) = 0.256 mW/g
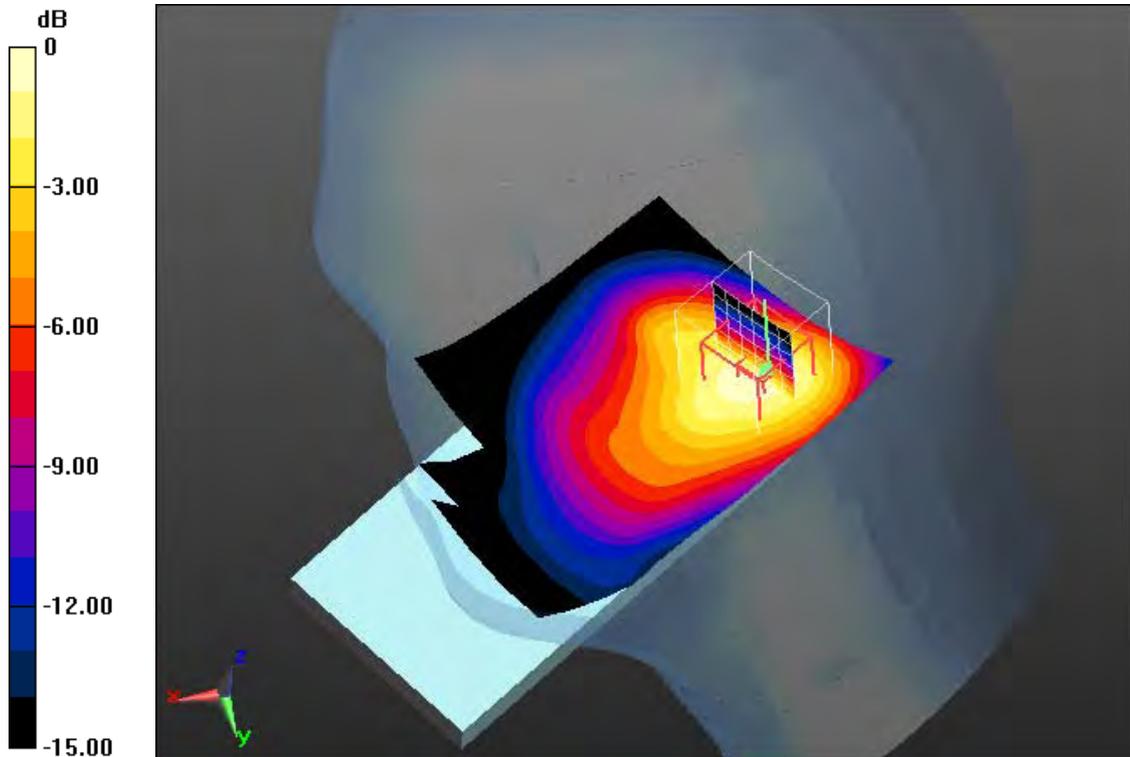
0 dB = 0.256 mW/g = -11.84 dB mW/g

Additional information:

ambient temperature: 23.6°C; liquid temperature: 22.6°C

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Date/Time: 23.07.2012 14:25:45

IEEE1528_EN62209-RightHandSide-WLAN2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2437 MHz; σ = 1.84 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Tilt position - Middle/Area Scan (61x101x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.189 mW/g

## Configuration/Tilt position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.618 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.366 mW/g
SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.094 mW/g
Maximum value of SAR (measured) = 0.196 mW/g
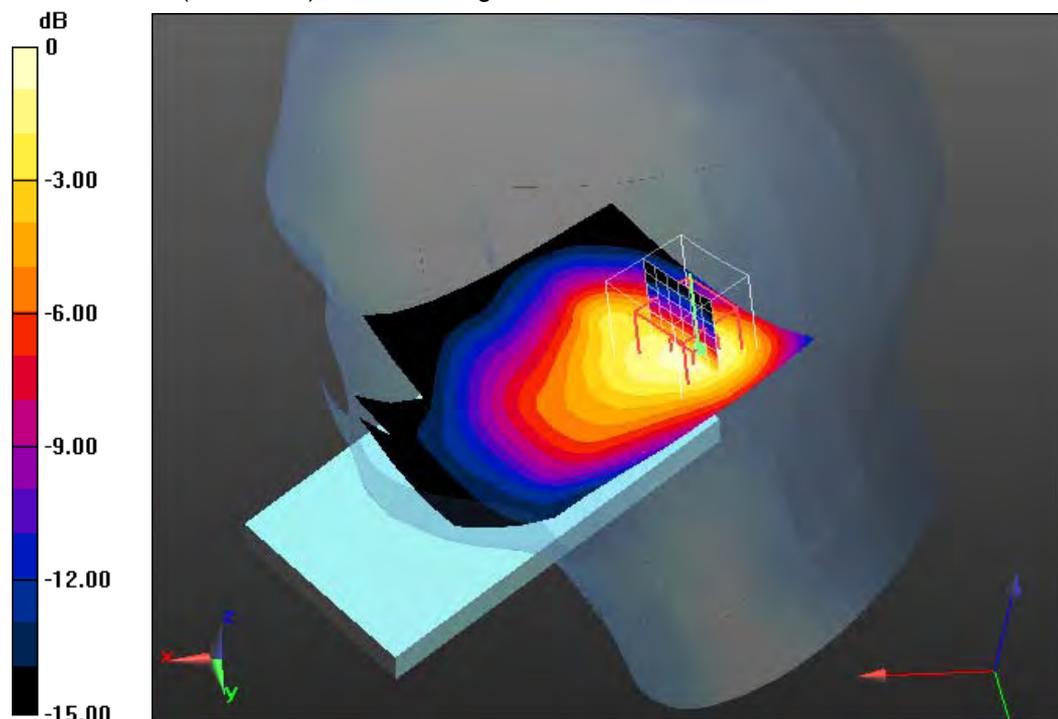
0 dB = 0.196 mW/g = -14.15 dB mW/g

Additional information:
ambient temperature: 23.6°C; liquid temperature: 22.6°C

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Date/Time: 24.07.2012 08:54:13

IEEE1528_EN62209-RightHandSide-WLAN2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2462 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2462 MHz; σ = 1.86 mho/m; ε_r = 39.4; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY4 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(4.3, 4.3, 4.3); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Configuration/Tilt position - High/Area Scan (61x101x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.127 mW/g

Configuration/Tilt position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.819 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.247 mW/g
SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.063 mW/g
Maximum value of SAR (measured) = 0.134 mW/g
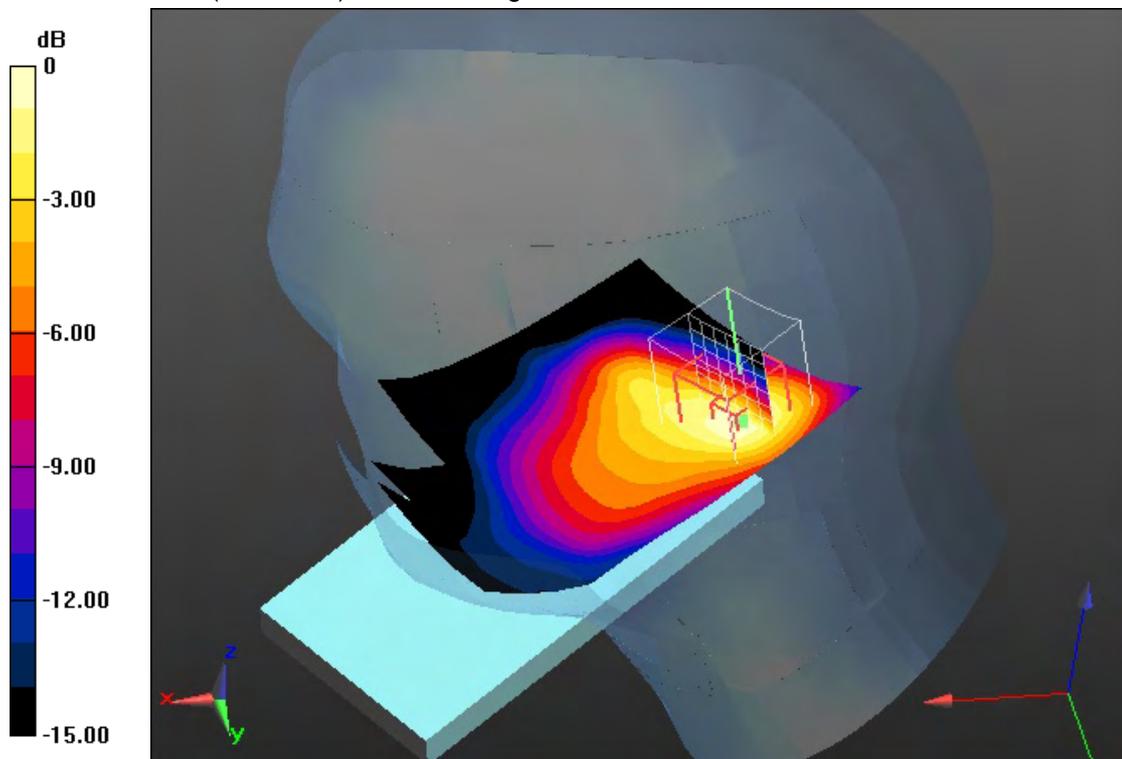
0 dB = 0.134 mW/g = -17.46 dB mW/g

Additional information:
ambient temperature: 23.6°C; liquid temperature: 22.6°C

Annex B.17: WLAN 2450MHz body hot spot

Date/Time: 24.07.2012 17:24:14

OET65_EN62209-2-Body-WLAN-2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2412 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2412 MHz; σ = 1.92 mho/m; $ε_r$ = 52.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = -2.3, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Front position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.142 mW/g

## Front position - Low/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.292 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.297 mW/g
SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.075 mW/g
Maximum value of SAR (measured) = 0.140 mW/g
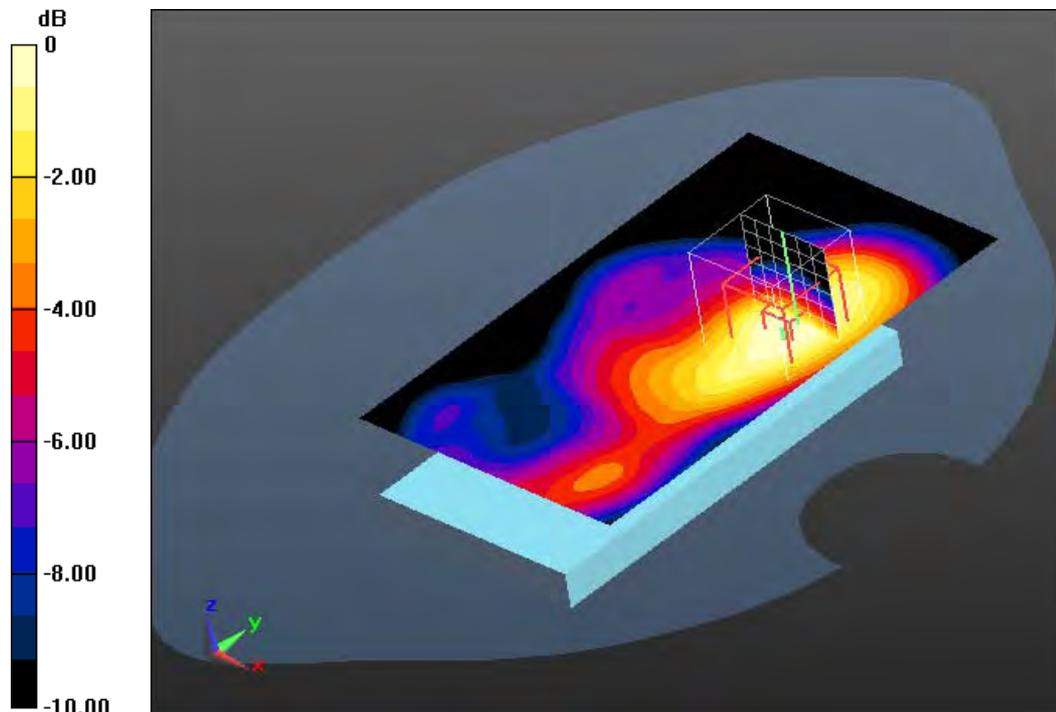
0 dB = 0.140 mW/g = -17.08 dB mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 25.07.2012 09:01:17

OET65_EN62209-2-Body-WLAN-2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2437 MHz; σ = 1.96 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = -2.3, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Front position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.138 mW/g

Front position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.877 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.281 mW/g
SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.074 mW/g
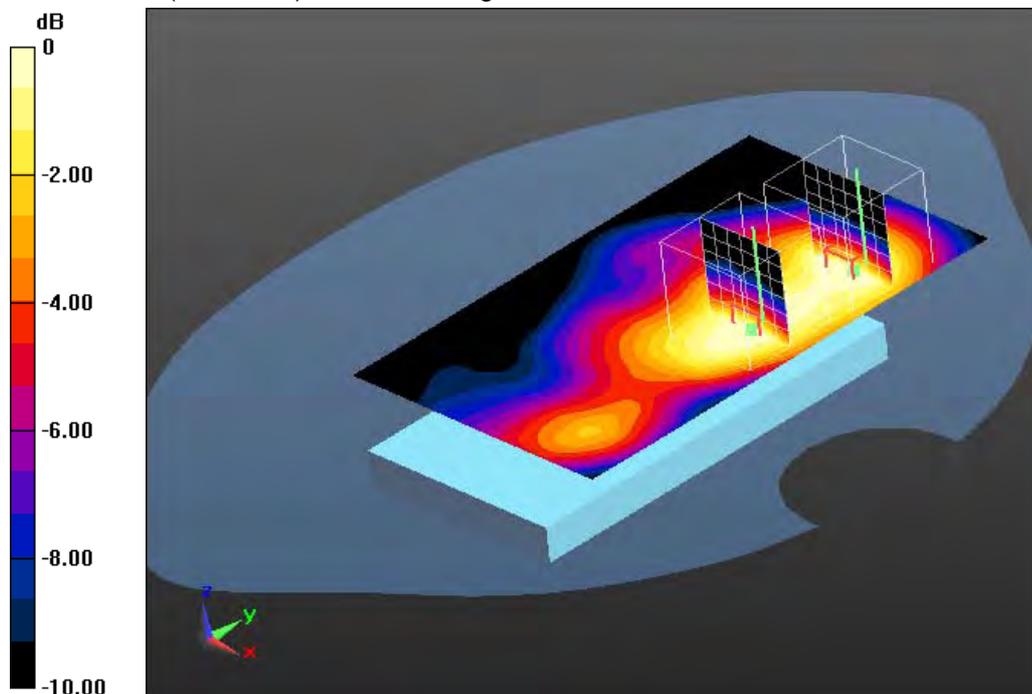Maximum value of SAR (measured) = 0.134 mW/g
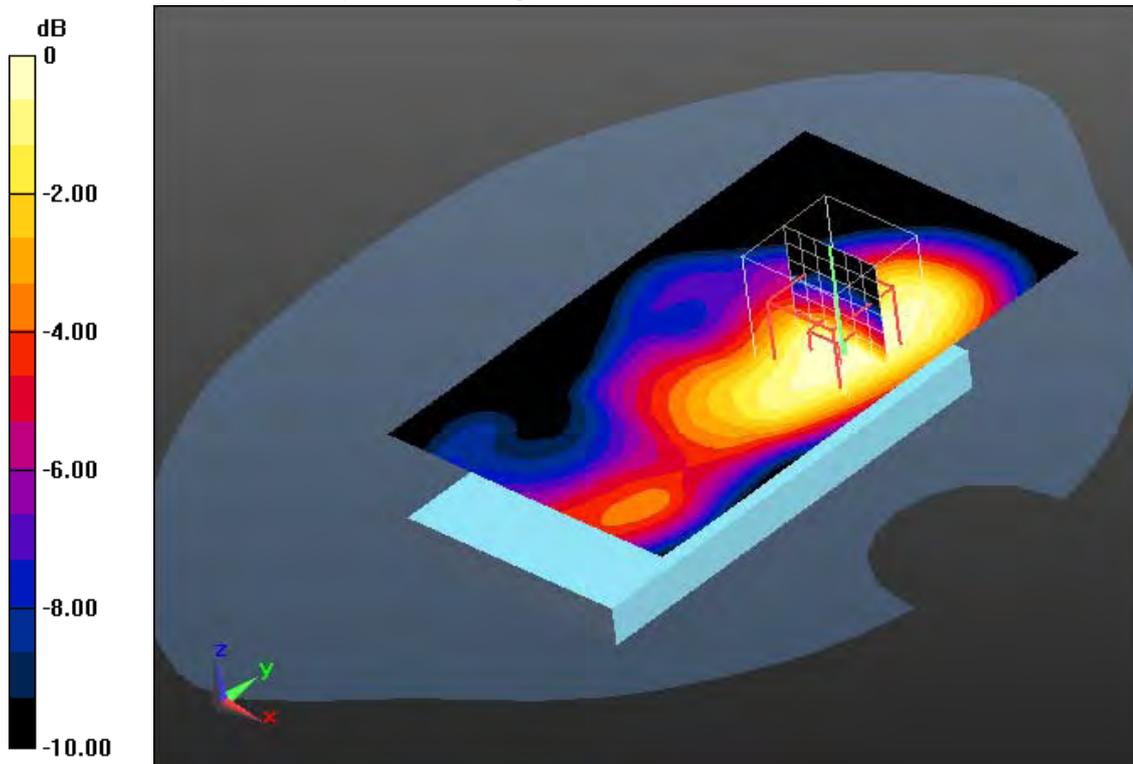
0 dB = 0.134 mW/g = -17.46 dB mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 24.07.2012 16:14:51

OET65_EN62209-2-Body-WLAN-2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2462 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2462 MHz; σ = 1.98 mho/m; $ε_r$ = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), z = -2.3, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Front position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.0962 mW/g

Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.668 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.194 mW/g
SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.045 mW/g
Maximum value of SAR (measured) = 0.0880 mW/g

Front position - High/Zoom Scan (7x7x7) (7x7x7)/Cube 1: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.668 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.187 mW/g
SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.044 mW/g
Maximum value of SAR (measured) = 0.0868 mW/g

0 dB = 0.0868 mW/g = -21.23 dB mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 24.07.2012 17:05:43

OET65_EN62209-2-Body-WLAN-2450.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 2450 US; Frequency: 2412 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 2412 MHz; σ = 1.92 mho/m; ε_r = 52.3; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), z = -2.3, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Rear position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.341 mW/g

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

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

Reference Value = 12.965 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.742 mW/g

SAR(1 g) = 0.306 mW/g; SAR(10 g) = 0.144 mW/g

Maximum value of SAR (measured) = 0.333 mW/g
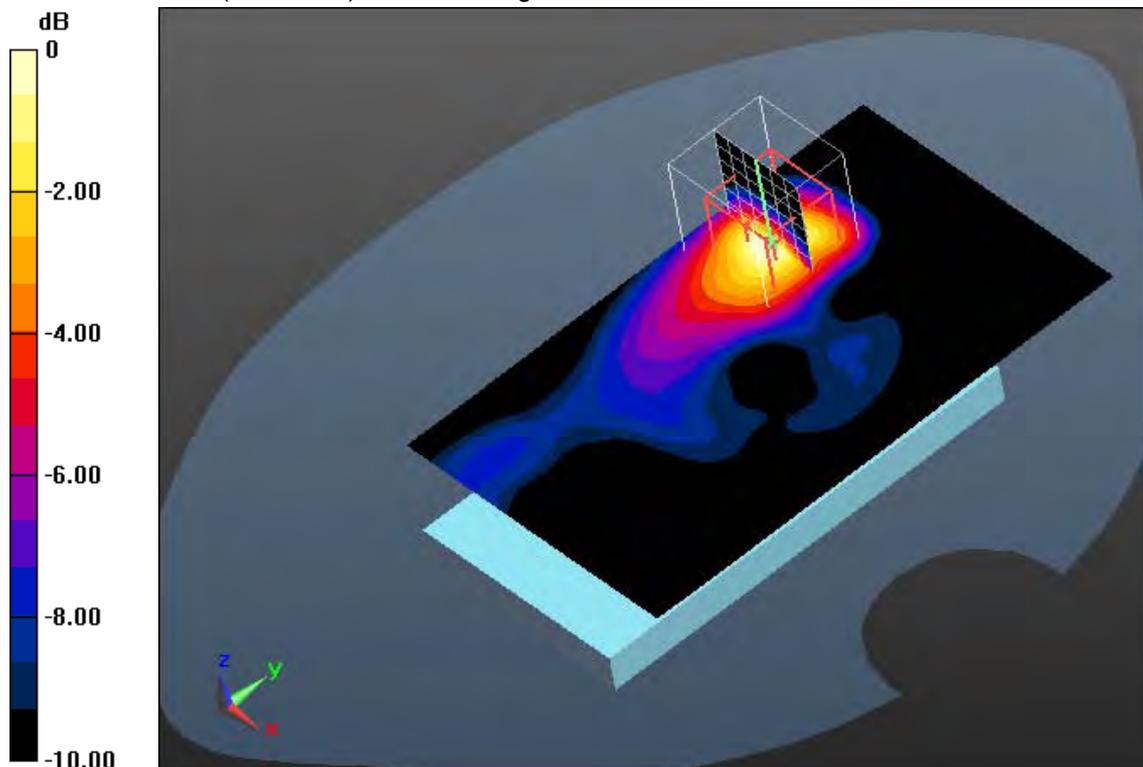
0 dB = 0.333 mW/g = -9.55 dB mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 25.07.2012 09:22:46

OET65_EN62209-2-Body-WLAN-2450.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2437 MHz; σ = 1.96 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = -2.3, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Rear position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.434 mW/g

Rear position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.730 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.956 mW/g
SAR(1 g) = 0.394 mW/g; SAR(10 g) = 0.182 mW/g
Maximum value of SAR (measured) = 0.432 mW/g
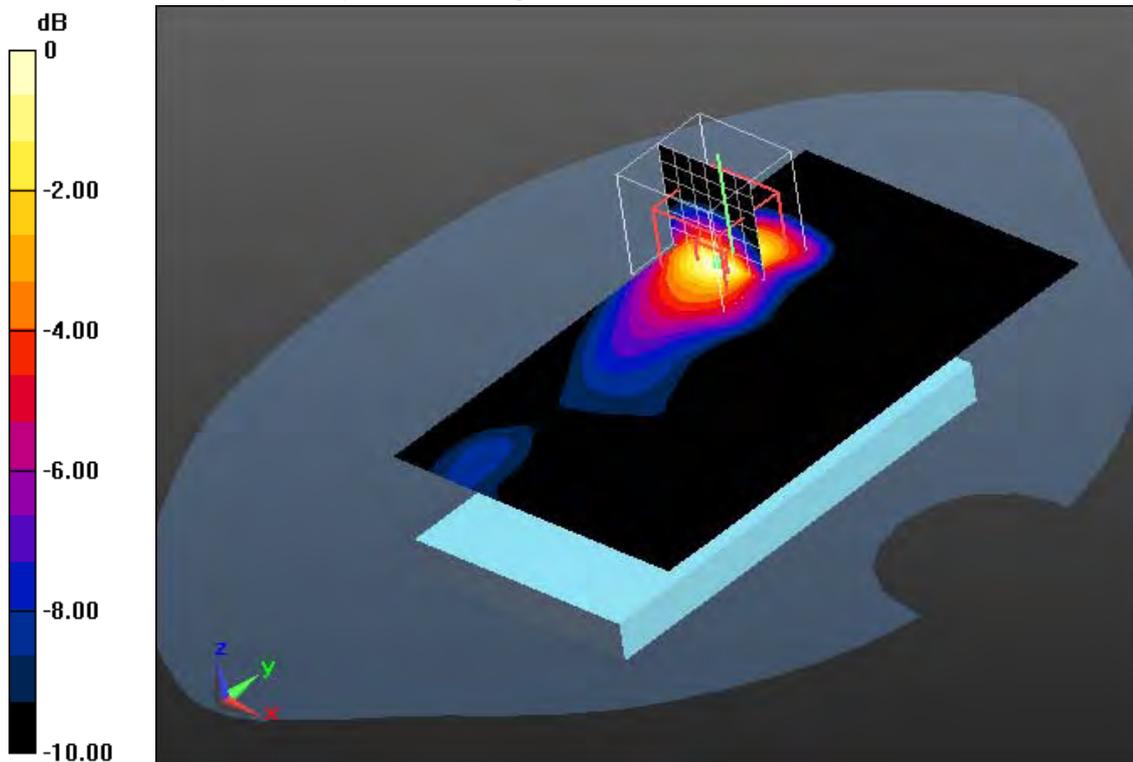
0 dB = 0.432 mW/g = -7.29 dB mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 24.07.2012 16:45:55

OET65_EN62209-2-Body-WLAN-2450.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 2450 US; Frequency: 2462 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 2462 MHz; σ = 1.98 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection), z = -2.3, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Rear position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.450 mW/g

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

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

Reference Value = 14.667 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.012 mW/g

SAR(1 g) = 0.398 mW/g; SAR(10 g) = 0.177 mW/g

Maximum value of SAR (measured) = 0.442 mW/g
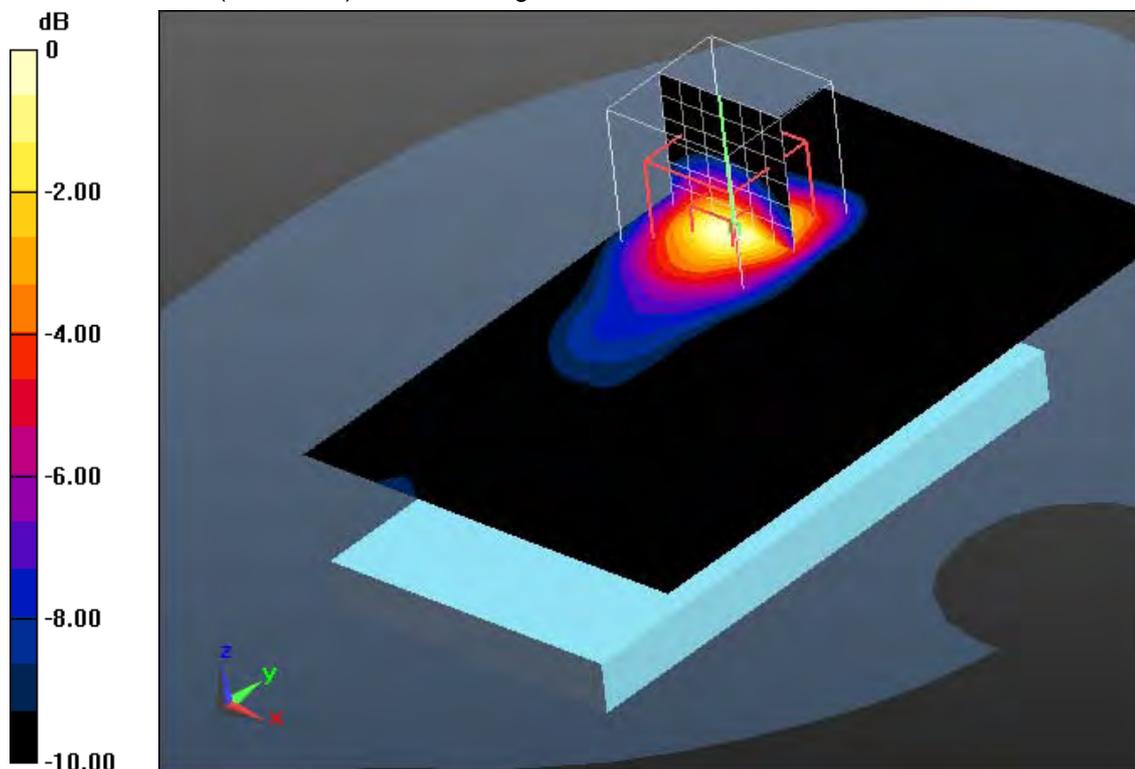
0 dB = 0.442 mW/g = -7.09 dB mW/g

Additional information:

position or distance of DUT to SAM: 10 mm

ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 25.07.2012 09:44:51

OET65_EN62209-2-Body-WLAN-2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2437 MHz; σ = 1.96 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Edge right position - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.214 mW/g

Edge right position - Middle/Zoom Scan (7x7x7) (7x11x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.210 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.472 mW/g
SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.102 mW/g
Maximum value of SAR (measured) = 0.225 mW/g
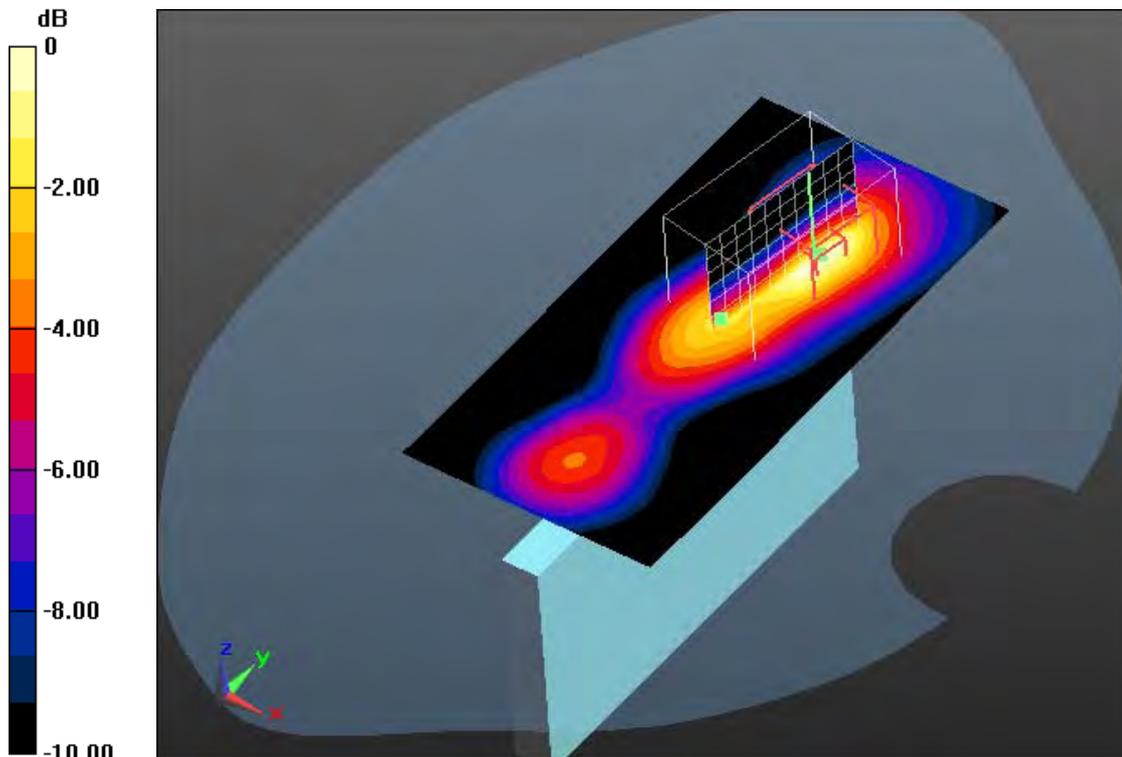
0 dB = 0.225 mW/g = -12.96 dB mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.6°C; liquid temperature: 22.3°C

Date/Time: 25.07.2012 10:11:08

OET65_EN62209-2-Body-WLAN-2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 2450 US; Frequency: 2437 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2437 MHz; σ = 1.96 mho/m; ε_r = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = 2.7, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Edge top position - Middle/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.210 mW/g

Edge top position - Middle/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.833 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.510 mW/g
SAR(1 g) = 0.219 mW/g; SAR(10 g) = 0.105 mW/g
Maximum value of SAR (measured) = 0.237 mW/g
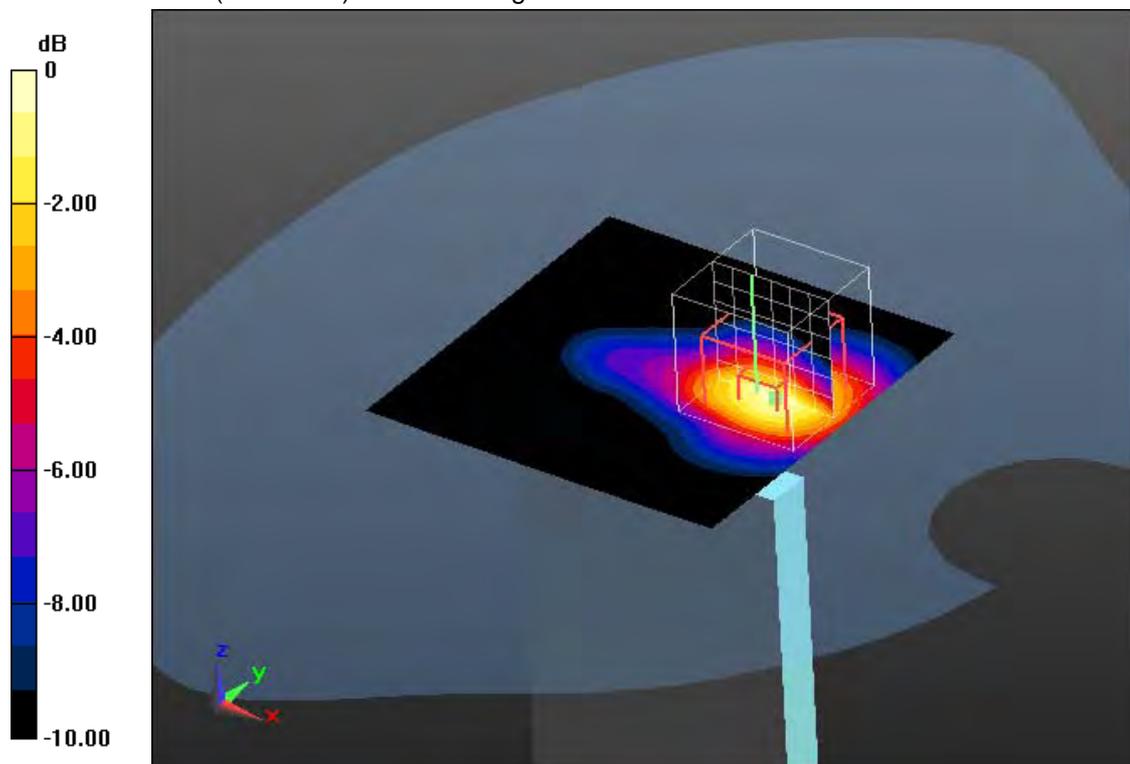
0 dB = 0.237 mW/g = -12.51 dB mW/g

Additional information:
position or distance of DUT to SAM: 10 mm
ambient temperature: 23.6°C; liquid temperature: 22.3°C

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Annex B.18: WLAN 2450MHz body worn

Date/Time: 25.07.2012 14:48:00

OET65_EN62209-2-Body-WLAN-2450.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 2450 US; Frequency: 2437 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 2437 MHz; σ = 1.96 mho/m; $ε_r$ = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: ET3DV6 - SN1559; ConvF(3.88, 3.88, 3.88); Calibrated: 18.01.2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection), z = -2.3, 32.7
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Body worn/Rear position - Middle 15mm/Area Scan (61x101x1): Measurement
grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.134 mW/g

Body worn/Rear position - Middle 15mm/Zoom Scan (7x7x7) (7x7x7)/Cube
0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.787 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.260 mW/g
SAR(1 g) = 0.115 mW/g; SAR(10 g) = 0.058 mW/g
Maximum value of SAR (measured) = 0.125 mW/g
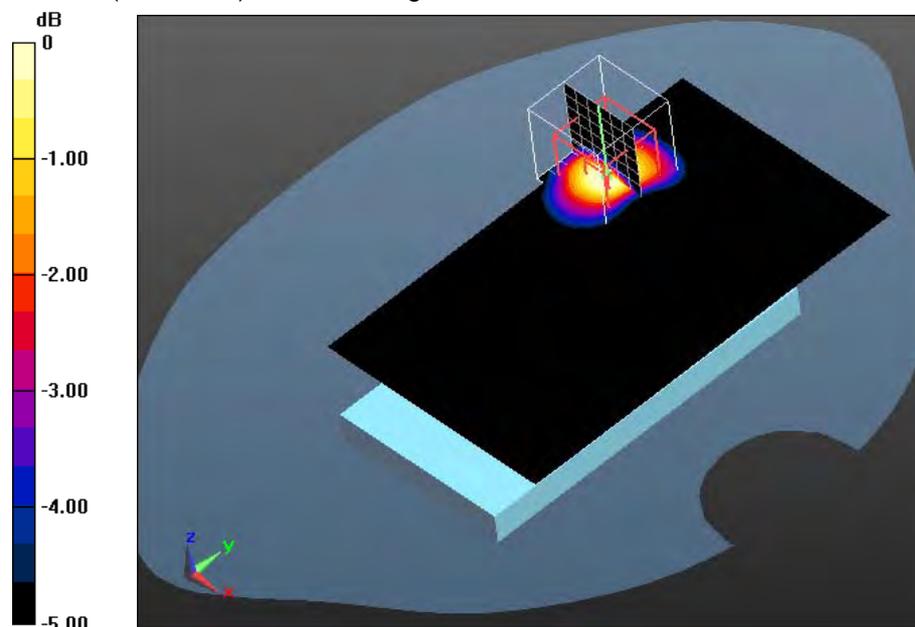
0 dB = 0.125 mW/g = -18.06 dB mW/g

Additional information:
position or distance of DUT to SAM: 15 mm with headset
ambient temperature: 23.6°C; liquid temperature: 22.3°C

Annex B.19: WLAN 5GHz head

IEEE1528_EN62209-LeftHandSide-WLAN5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5200 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5200 MHz; σ = 4.52 mho/m; ε_r = 36.6; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.78, 4.78, 4.78); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Touch position - Channel 40/Area Scan (91x121x1):
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.03 mW/g

### LeftHandSide/Touch position - Channel 40/Zoom Scan (7x7x7)
(8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 14.829 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 4.057 mW/g
SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.146 mW/g
Maximum value of SAR (measured) = 2.25 mW/g
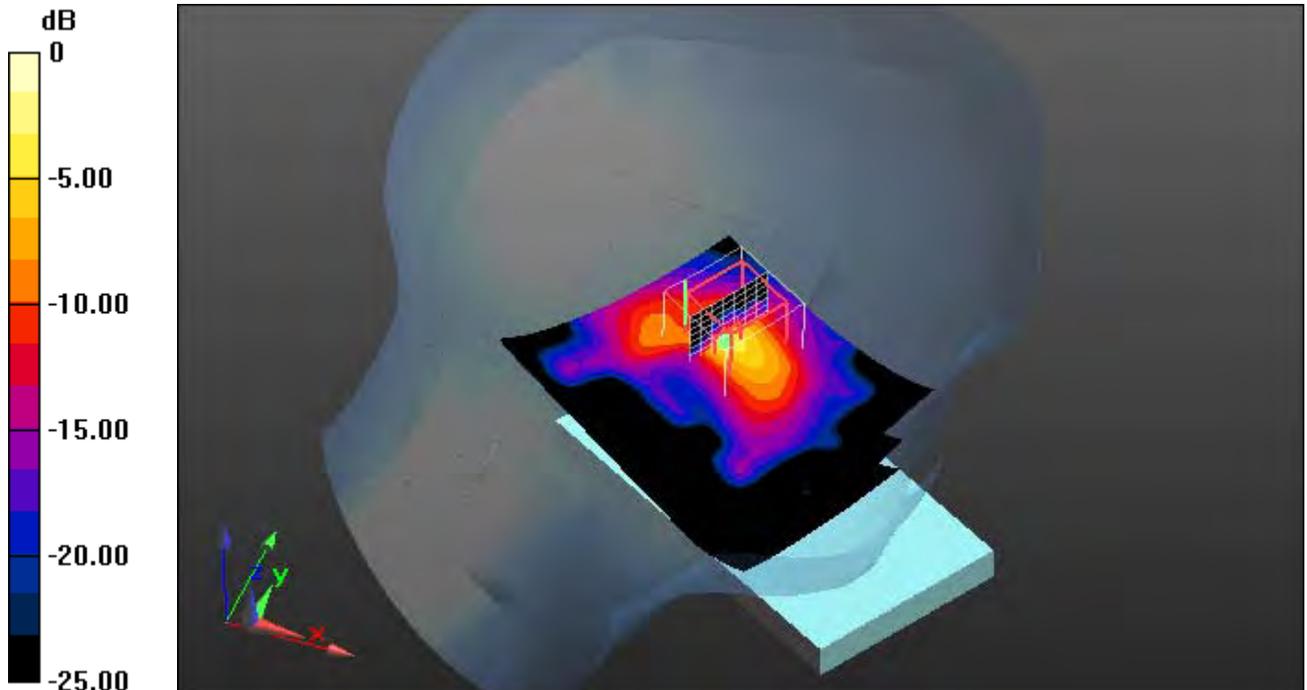
0 dB = 2.25 mW/g = 7.04 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 30.07.2012 10:10:53

IEEE1528_EN62209-LeftHandSide-WLAN5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5280 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): f = 5280 MHz; σ = 4.6 mho/m; $ε_r$ = 36.44; ρ = 1000 kg/m³

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3566; ConvF(4.45, 4.45, 4.45); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Touch position - Channel 56/Area Scan (91x121x1):

Measurement grid: dx=10mm, dy=10mm

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

LeftHandSide/Touch position - Channel 56/Zoom Scan (7x7x7) (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 14.678 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.419 mW/g

SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.150 mW/g

Maximum value of SAR (measured) = 0.988 mW/g
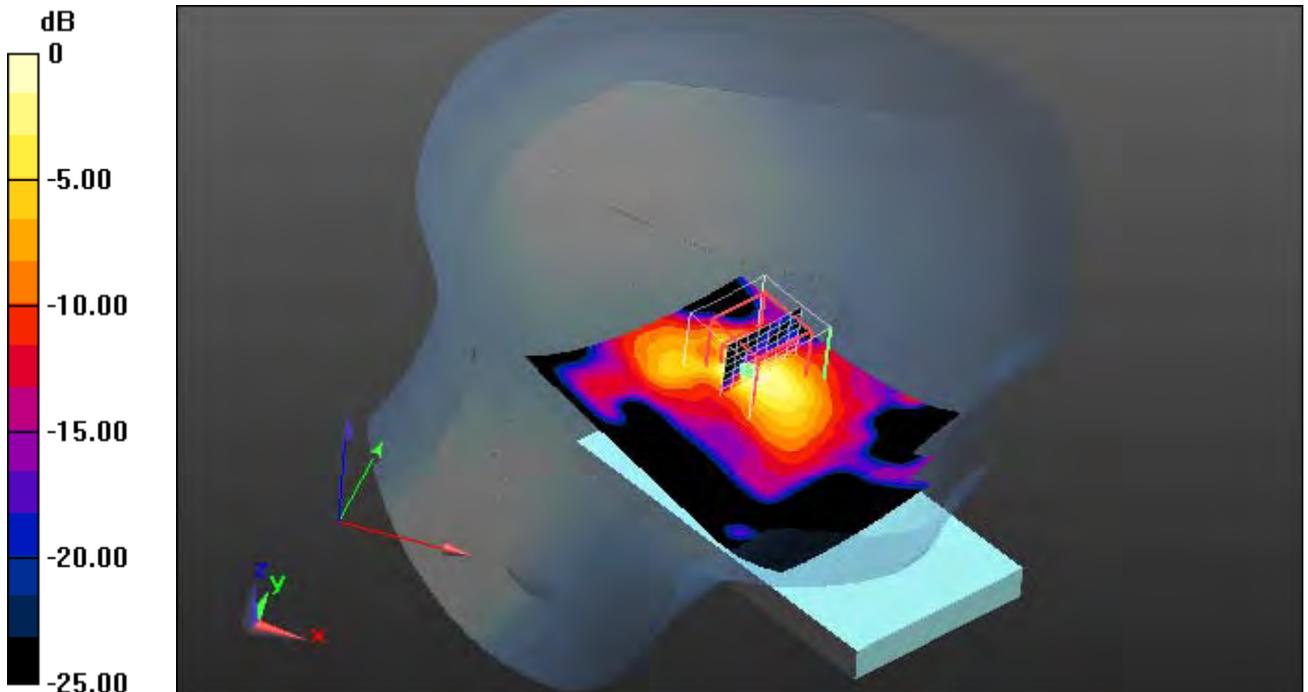
0 dB = 0.988 mW/g = -0.10 dB mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.7°C

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Date/Time: 30.07.2012 11:50:46

IEEE1528_EN62209-LeftHandSide-WLAN5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5700 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5700 MHz; σ = 5.02 mho/m; $ε_r$ = 35.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.16, 4.16, 4.16); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Touch position - Channel 140/Area Scan (91x121x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.427 mW/g

## LeftHandSide/Touch position - Channel 140/Zoom Scan (7x7x7)

**(8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 9.820 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.752 mW/g
SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.062 mW/g
Maximum value of SAR (measured) = 0.565 mW/g
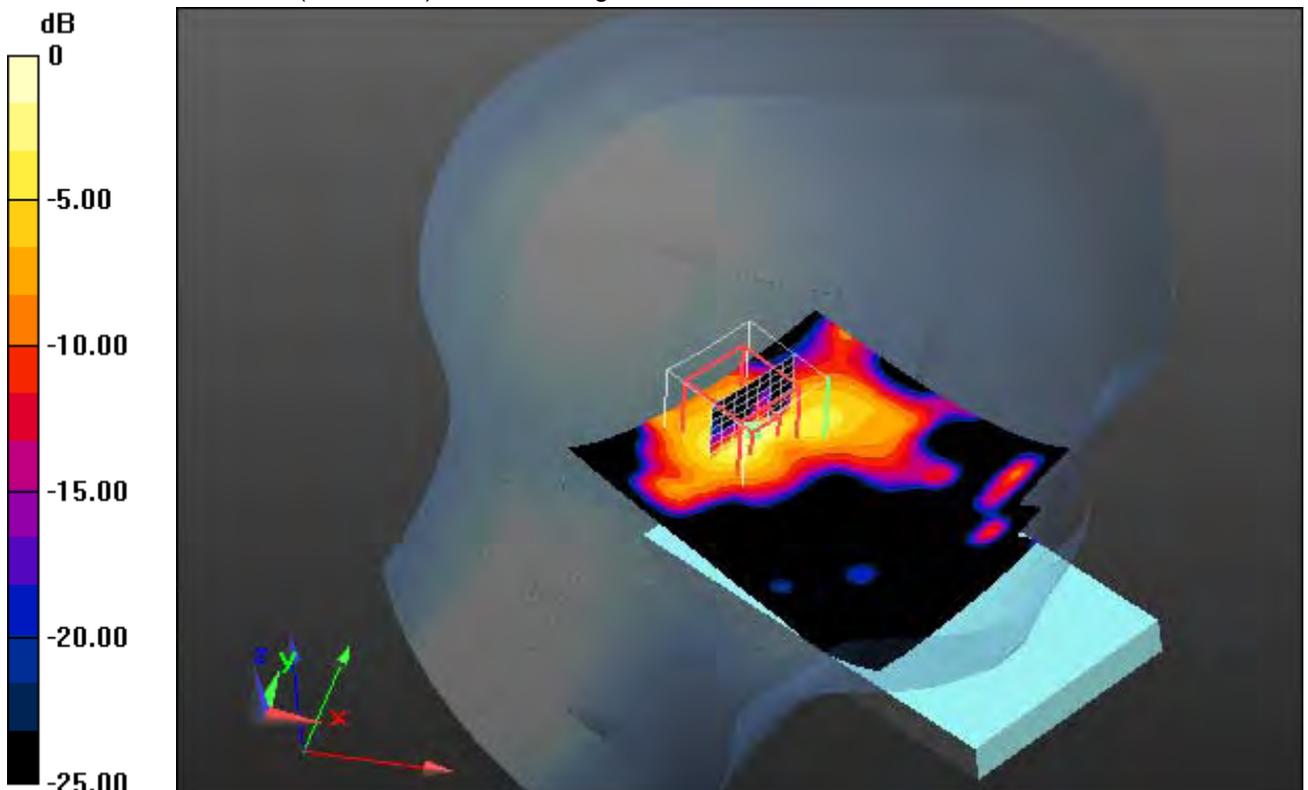
0 dB = 0.565 mW/g = -4.96 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

IEEE1528_EN62209-LeftHandSide-WLAN5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5745 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): f = 5745 MHz; σ = 5.065 mho/m; ε_r = 35.71; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.16, 4.16, 4.16); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Touch position - Channel 149/Area Scan (91x121x1):
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.374 mW/g

LeftHandSide/Touch position - Channel 149/Zoom Scan (7x7x7)
(8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 9.047 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.767 mW/g
SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.063 mW/g
Maximum value of SAR (measured) = 0.464 mW/g
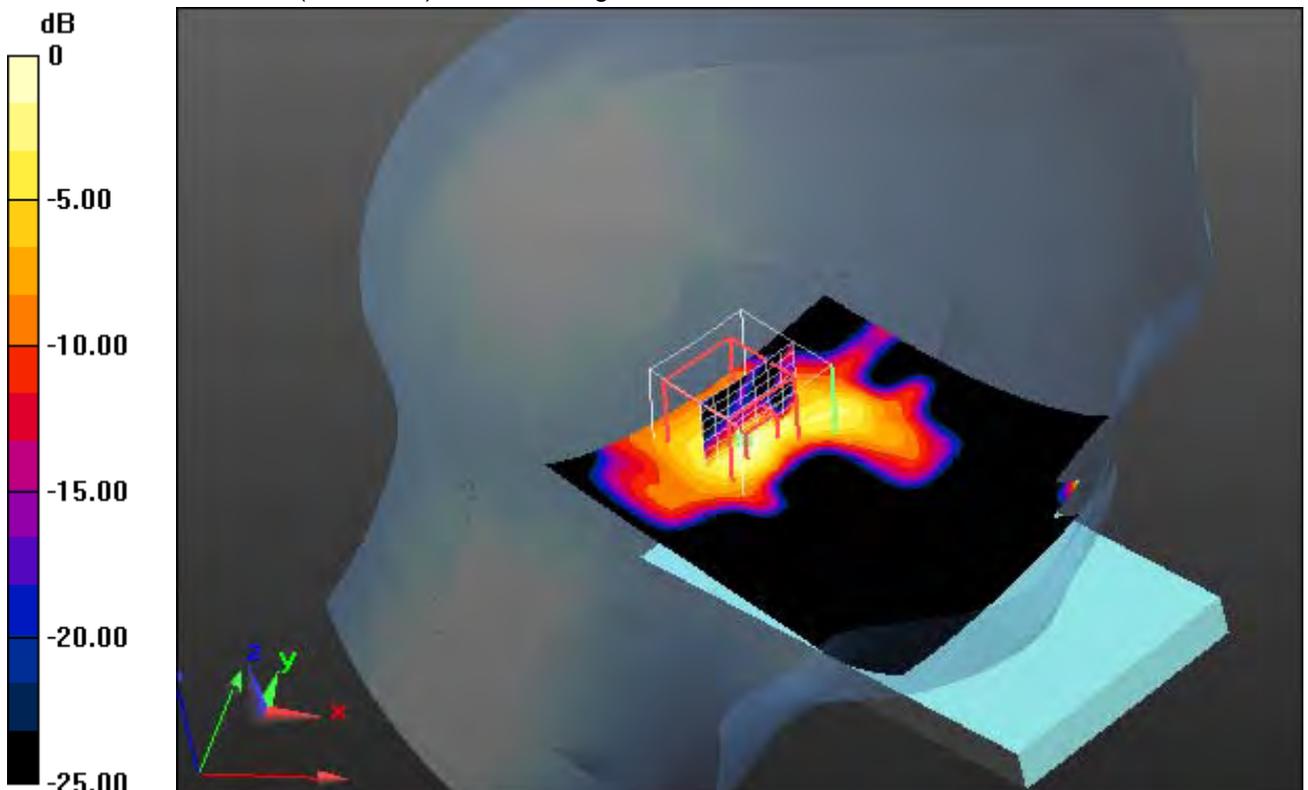
0 dB = 0.464 mW/g = -6.67 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

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Date/Time: 30.07.2012 09:19:03

IEEE1528_EN62209-LeftHandSide-WLAN5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5200 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5200 MHz; σ = 4.52 mho/m; ε_r = 36.6; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.78, 4.78, 4.78); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Tilt position - Channel 40/Area Scan (91x121x1): Measurement
grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.591 mW/g

## LeftHandSide/Tilt position - Channel 40/Zoom Scan (7x7x7) (8x8x8)/Cube 0:
Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 11.860 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.376 mW/g
SAR(1 g) = 0.266 mW/g; SAR(10 g) = 0.073 mW/g
Maximum value of SAR (measured) = 0.555 mW/g
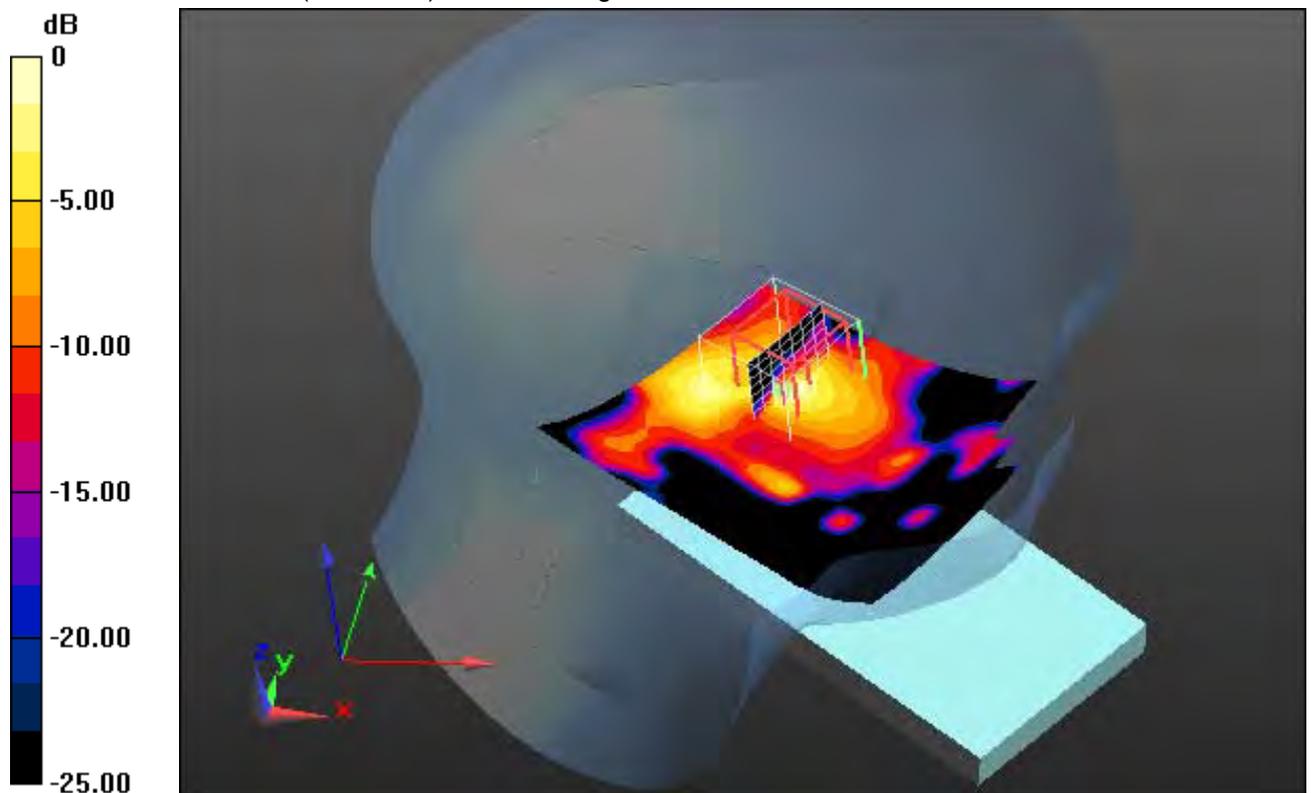
0 dB = 0.555 mW/g = -5.11 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 30.07.2012 09:45:50

IEEE1528_EN62209-LeftHandSide-WLAN5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5280 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): f = 5280 MHz; σ = 4.6 mho/m; $ε_r$ = 36.44; ρ = 1000 kg/m^3

Phantom section: Left Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3566; ConvF(4.45, 4.45, 4.45); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Tilt position - Channel 56/Area Scan (91x121x1): Measurement

grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.19 mW/g

## LeftHandSide/Tilt position - Channel 56/Zoom Scan (7x7x7) (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 12.641 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.126 mW/g

SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.085 mW/g

Maximum value of SAR (measured) = 0.678 mW/g
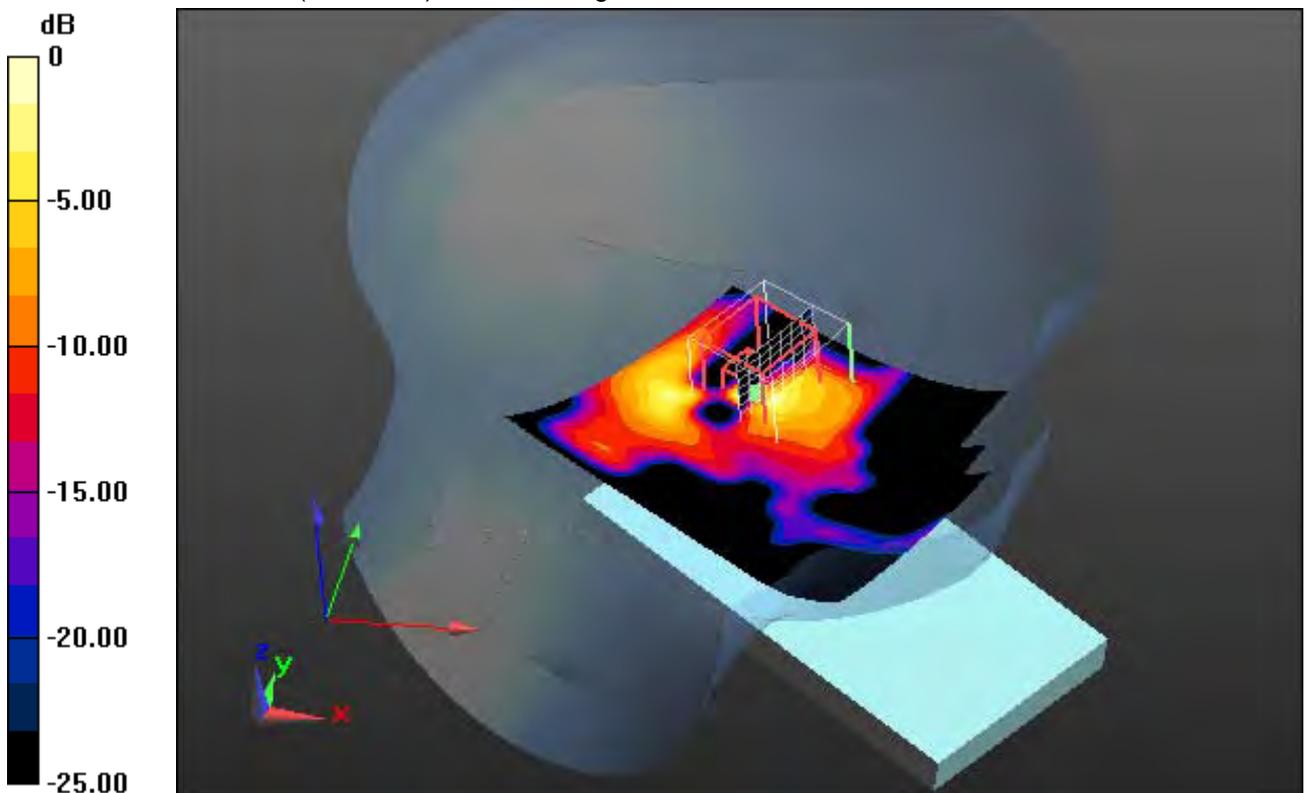
0 dB = 0.678 mW/g = -3.38 dB mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 30.07.2012 12:17:02

IEEE1528_EN62209-LeftHandSide-WLAN5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5700 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5700 MHz; σ = 5.02 mho/m; ε_r = 35.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.16, 4.16, 4.16); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Tilt position - Channel 140/Area Scan (91x121x1): Measurement
grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.419 mW/g

LeftHandSide/Tilt position - Channel 140/Zoom Scan (7x7x7) (8x8x8)/Cube
**0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 9.315 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.914 mW/g
SAR(1 g) = 0.184 mW/g; SAR(10 g) = 0.058 mW/g
Maximum value of SAR (measured) = 0.914 mW/g
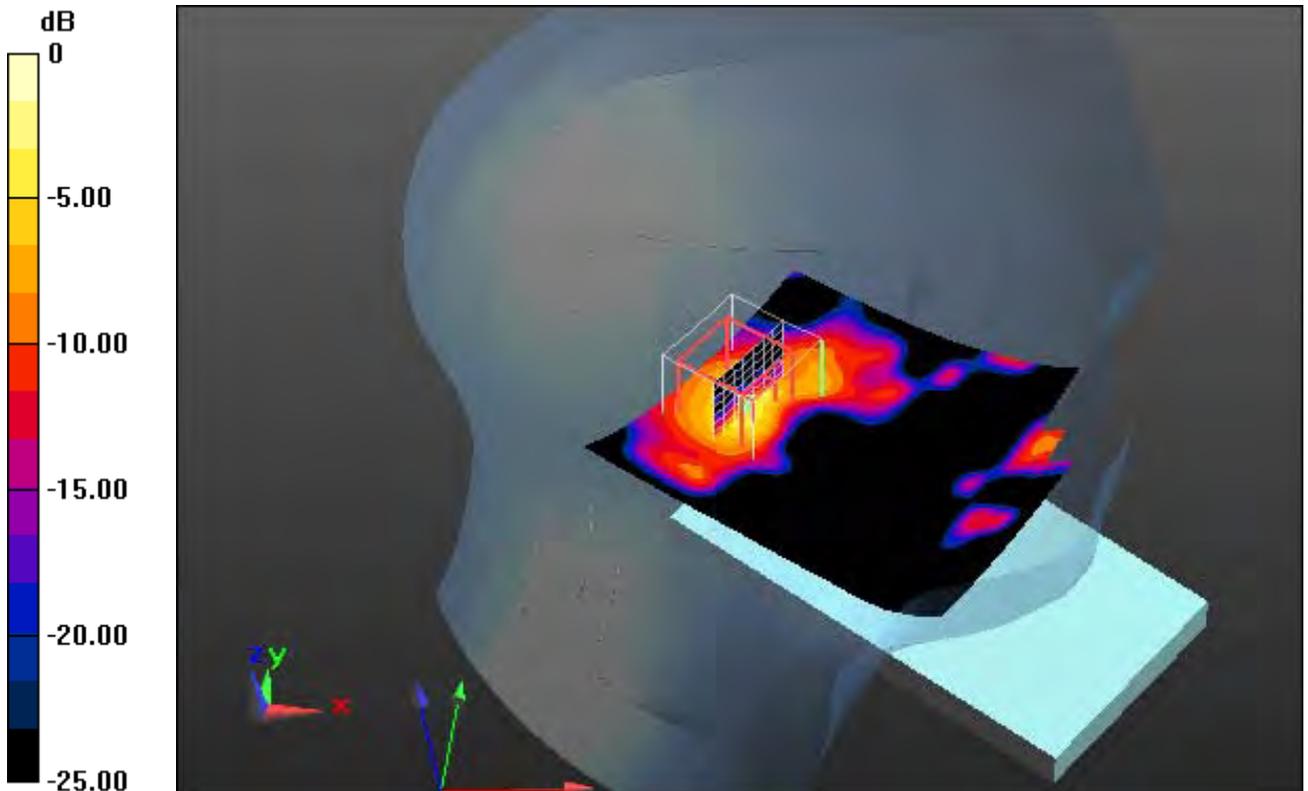
0 dB = 0.914 mW/g = -0.78 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

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IEEE1528_EN62209-LeftHandSide-WLAN5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5745 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): f = 5745 MHz; σ = 5.065 mho/m; ε_r = 35.71; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.16, 4.16, 4.16); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Tilt position - Channel 149/Area Scan (91x121x1): Measurement
grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.413 mW/g

LeftHandSide/Tilt position - Channel 149/Zoom Scan (7x7x7) (8x8x8)/Cube

0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 9.420 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.725 mW/g
SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.063 mW/g
Maximum value of SAR (measured) = 0.444 mW/g
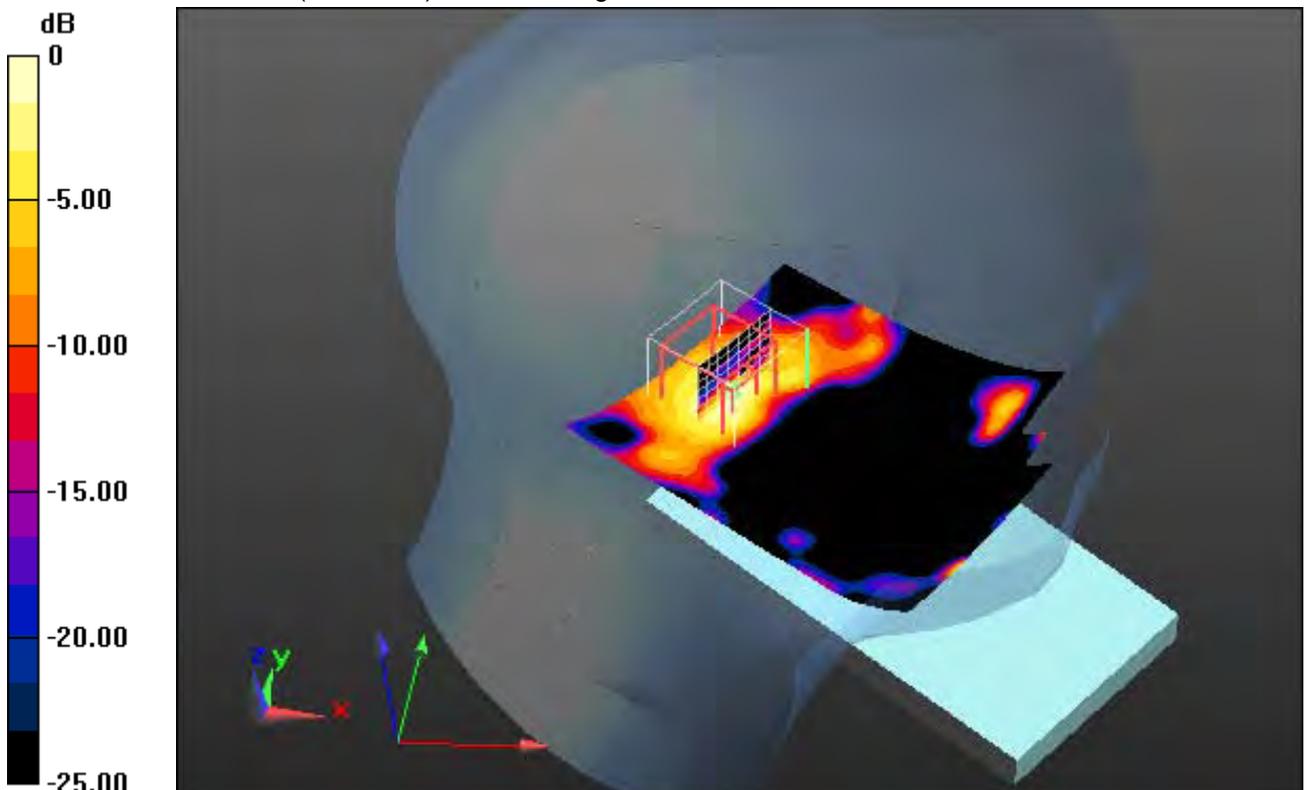
0 dB = 0.444 mW/g = -7.05 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 30.07.2012 22:53:51

IEEE1528_EN62209-LeftHandSide-WLAN5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5280 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): f = 5280 MHz; σ = 4.6 mho/m; $ε_r$ = 36.44; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.45, 4.45, 4.45); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

LeftHandSide/Touch position - Channel 56 WC/Area Scan (91x121x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.20 mW/g

LeftHandSide/Touch position - Channel 56 WC/Zoom Scan (7x7x7)

(8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 14.355 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 2.127 mW/g
SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.176 mW/g
Maximum value of SAR (measured) = 1.18 mW/g
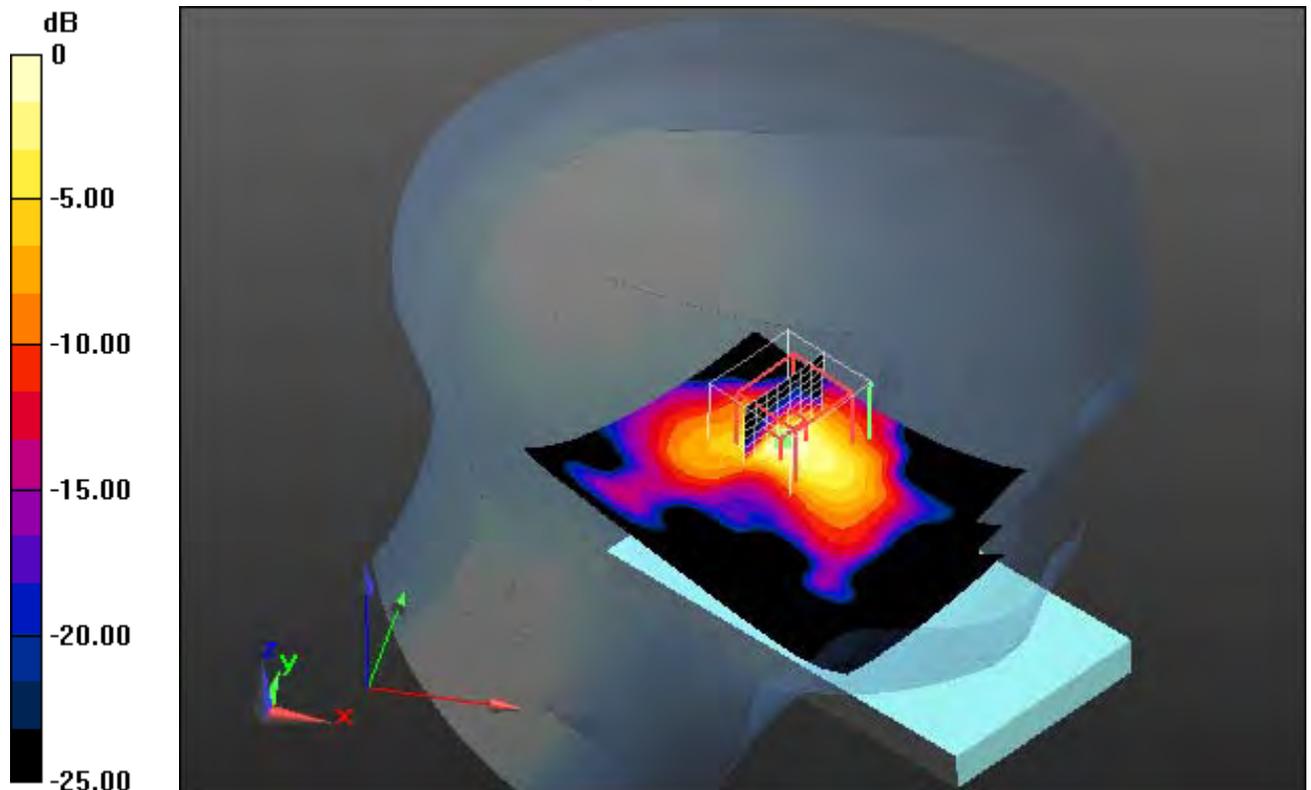
0 dB = 1.18 mW/g = 1.44 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 30.07.2012 14:42:03

IEEE1528_EN62209-RightHandSide-WLAN5GHz
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5200 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5200 MHz; σ = 4.52 mho/m; ε_r = 36.6; ρ = 1000 kg/m³
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.78, 4.78, 4.78); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

RightHandSide/Touchilt position - Channel 40/Area Scan (91x121x1):
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.324 mW/g

## RightHandSide/Touchilt position - Channel 40/Zoom Scan (7x7x7)
(8x11x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 8.830 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.511 mW/g
SAR(1 g) = 0.164 mW/g; SAR(10 g) = 0.053 mW/g
Maximum value of SAR (measured) = 0.300 mW/g
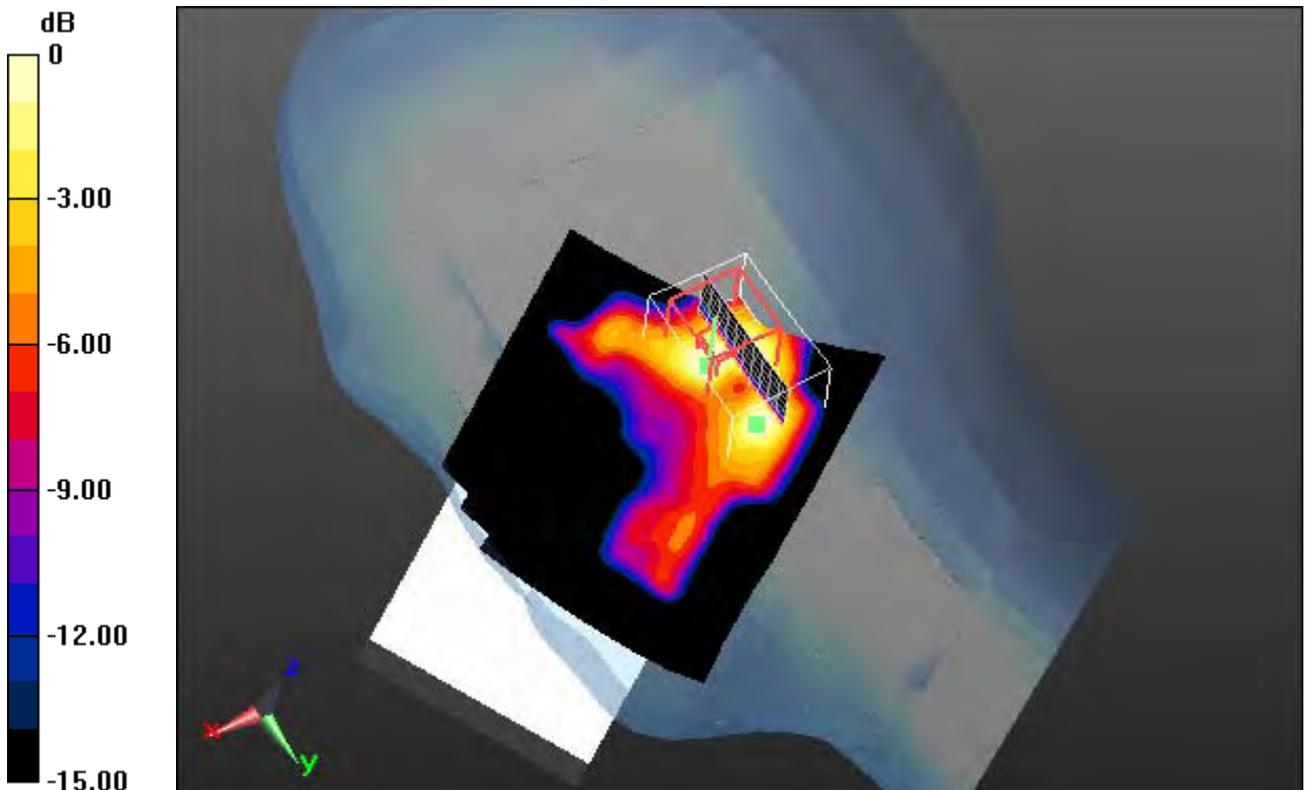
0 dB = 0.300 mW/g = -10.46 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 30.07.2012 16:24:30

IEEE1528_EN62209-RightHandSide-WLAN5GHz

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5280 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): f = 5280 MHz; σ = 4.6 mho/m; ε_r = 36.44; ρ = 1000 kg/m³
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.45, 4.45, 4.45); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

RightHandSide/Touch position - Channel 56/Area Scan (91x121x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.412 mW/g

RightHandSide/Touch position - Channel 56/Zoom Scan (7x7x7)

**(8x12x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 9.959 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.752 mW/g
SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.050 mW/g
Maximum value of SAR (measured) = 0.414 mW/g
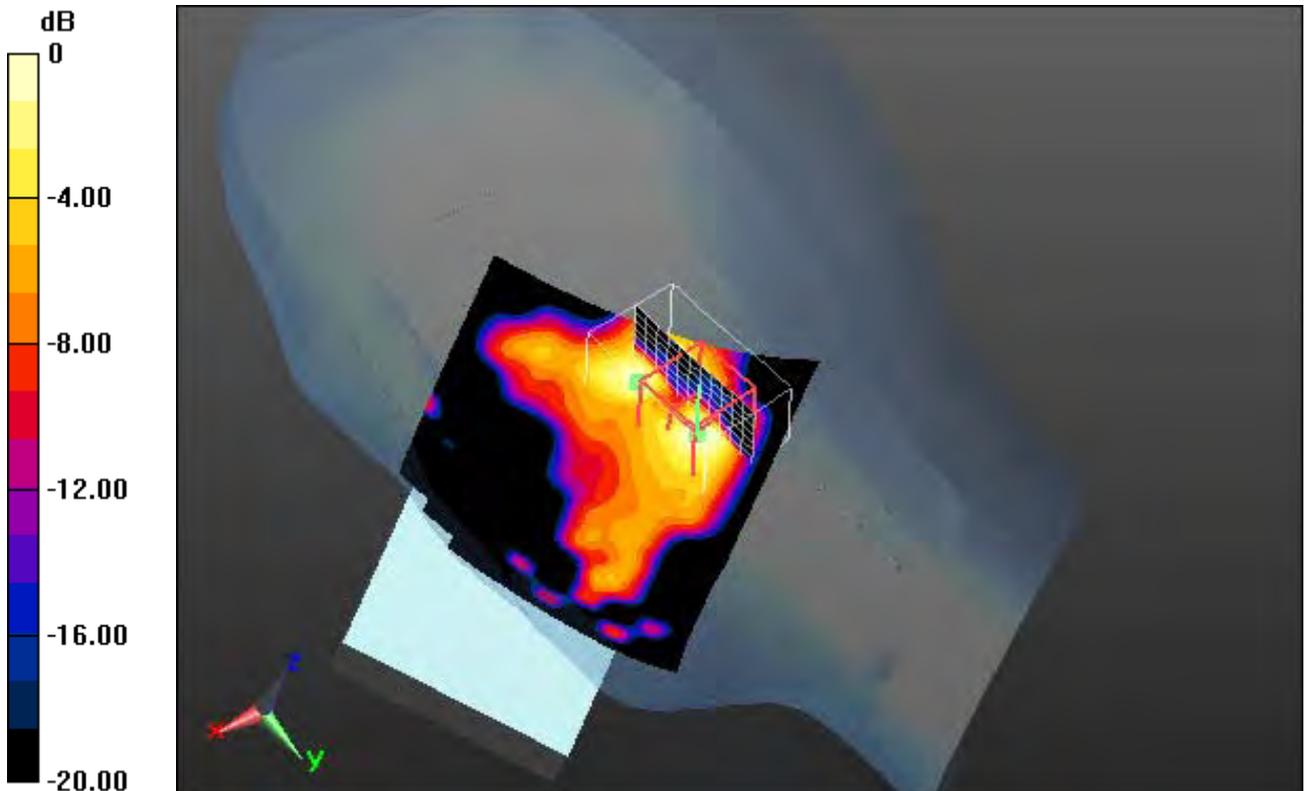
0 dB = 0.414 mW/g = -7.66 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

Date/Time: 30.07.2012 19:59:12

IEEE1528_EN62209-RightHandSide-WLAN5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5700 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5700 MHz; σ = 5.02 mho/m; ε_r = 35.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.16, 4.16, 4.16); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

RightHandSide/Touch position - Channel 140/Area Scan (91x121x1):

Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.674 mW/g

RightHandSide/Touch position - Channel 140/Zoom Scan (7x7x7)

(8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 9.345 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.663 mW/g
SAR(1 g) = 0.188 mW/g; SAR(10 g) = 0.061 mW/g
Maximum value of SAR (measured) = 0.391 mW/g
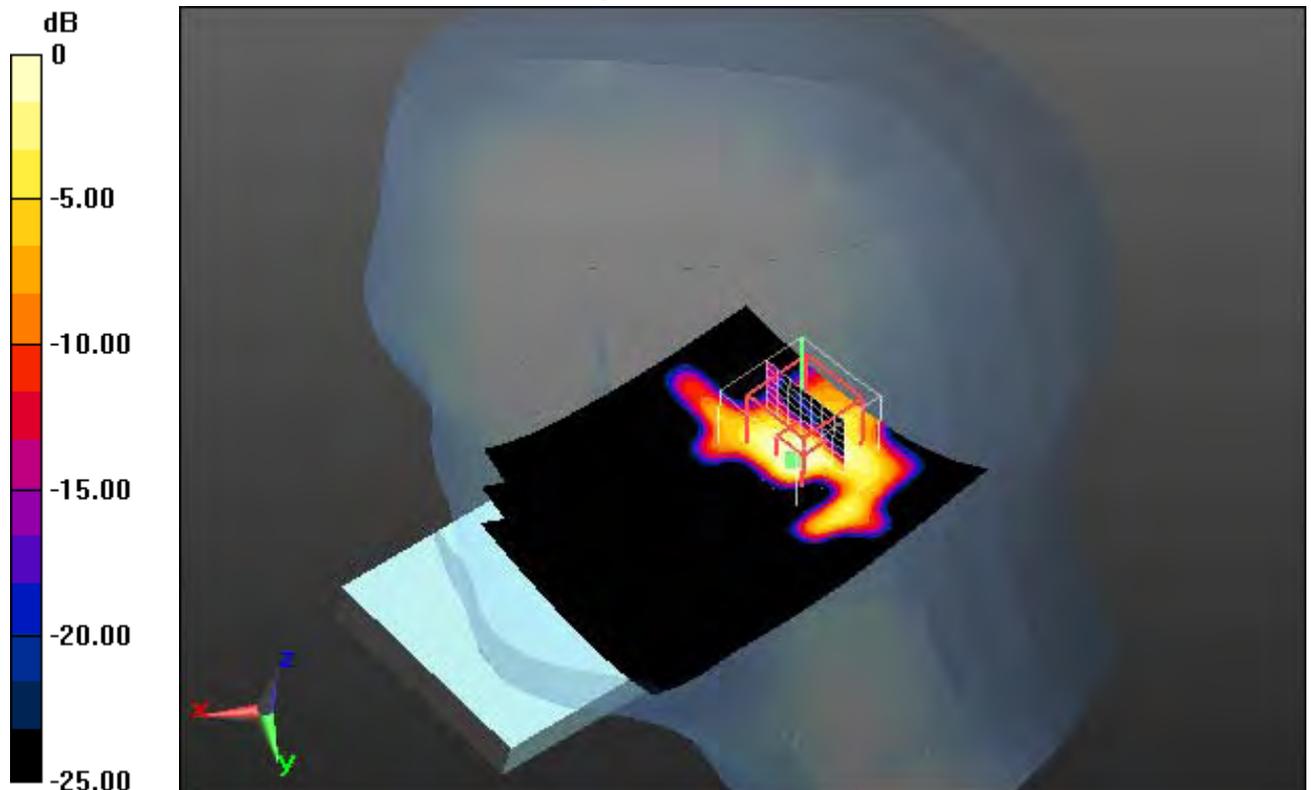
0 dB = 0.391 mW/g = -8.16 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

IEEE1528_EN62209-RightHandSide-WLAN5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5745 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): f = 5745 MHz; σ = 5.065 mho/m; ε_r = 35.71; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3566; ConvF(4.16, 4.16, 4.16); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

RightHandSide/Touch position - Channel 149/Area Scan (91x121x1):

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.470 mW/g

## RightHandSide/Touch position - Channel 149/Zoom Scan (7x7x7) (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 9.360 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.710 mW/g

SAR(1 g) = 0.203 mW/g; SAR(10 g) = 0.064 mW/g

Maximum value of SAR (measured) = 0.425 mW/g
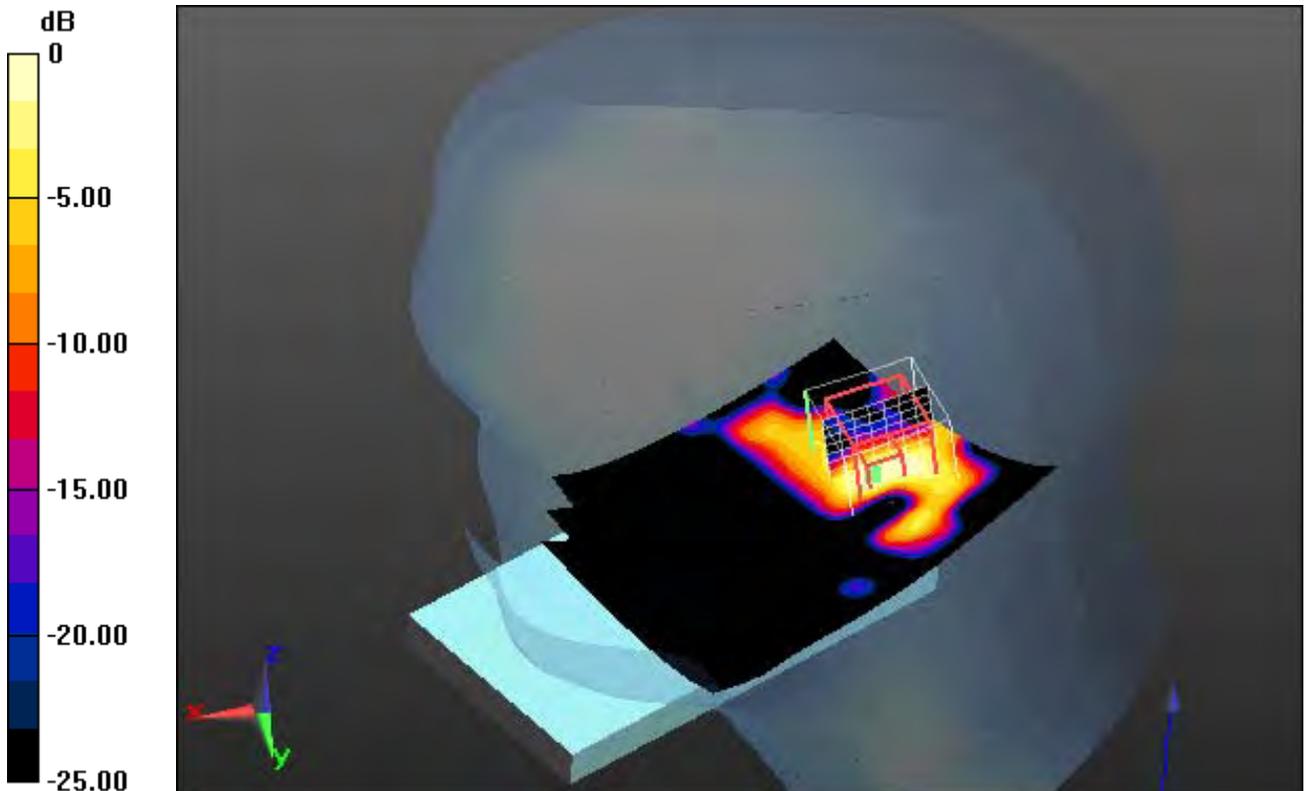
0 dB = 0.425 mW/g = -7.43 dB mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.7°C

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Date/Time: 30.07.2012 15:21:21

IEEE1528_EN62209-RightHandSide-WLAN5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5200 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5200 MHz; σ = 4.52 mho/m; ε_r = 36.6; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.78, 4.78, 4.78); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

RightHandSide/Tilt position - Channel 40/Area Scan (91x121x1): Measurement
grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.340 mW/g

RightHandSide/Tilt position - Channel 40/Zoom Scan (7x7x7) (8x8x8)/Cube

0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 8.847 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.542 mW/g
SAR(1 g) = 0.175 mW/g; SAR(10 g) = 0.060 mW/g
Maximum value of SAR (measured) = 0.319 mW/g
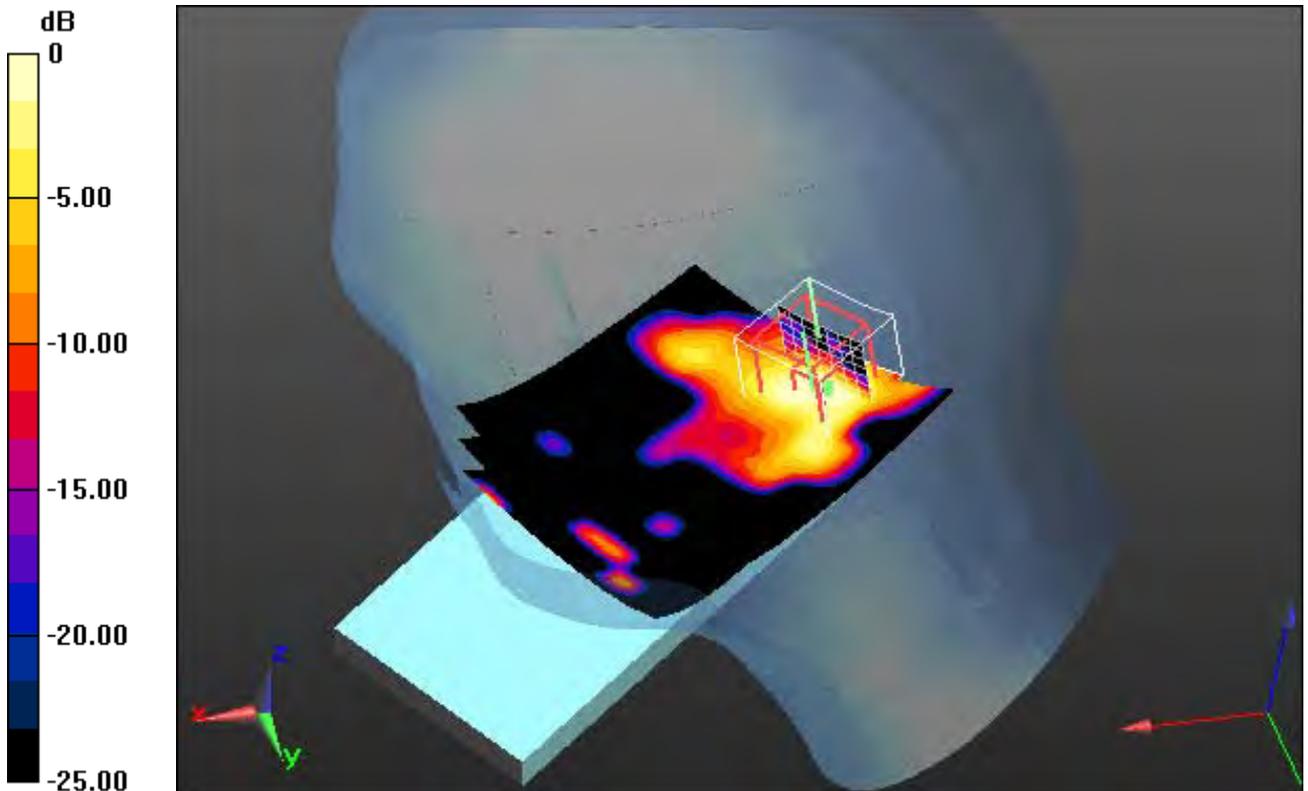
0 dB = 0.319 mW/g = -9.92 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

CETECOM™

Date/Time: 30.07.2012 15:50:03

IEEE1528_EN62209-RightHandSide-WLAN5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5280 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used (interpolated): f = 5280 MHz; σ = 4.6 mho/m; ε_r = 36.44; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.45, 4.45, 4.45); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

RightHandSide/Tilt position - Channel 56/Area Scan (91x121x1): Measurement
grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.323 mW/g

## RightHandSide/Tilt position - Channel 56/Zoom Scan (7x7x7) (8x11x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 8.623 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.460 mW/g
SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.048 mW/g
Maximum value of SAR (measured) = 0.287 mW/g
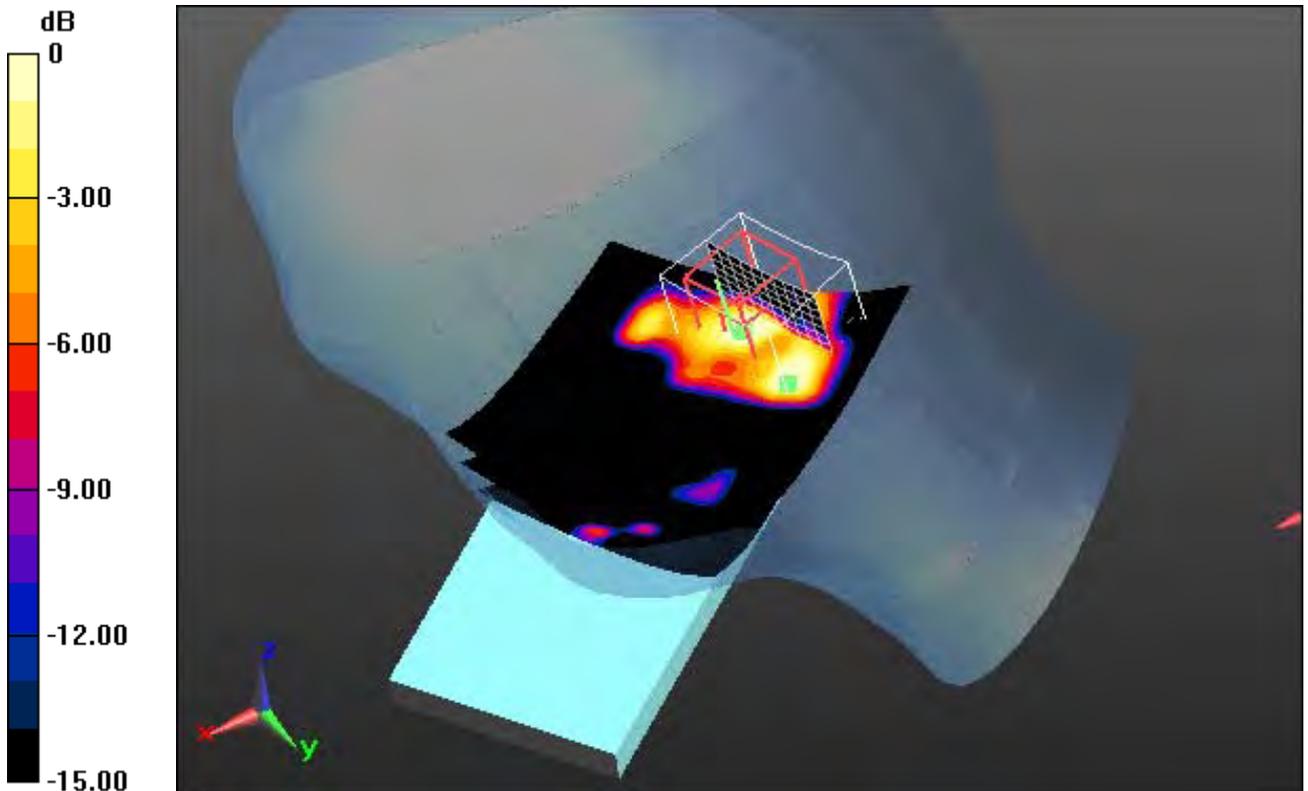
0 dB = 0.287 mW/g = -10.84 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

CETECOM™

Date/Time: 30.07.2012 20:30:20

IEEE1528_EN62209-RightHandSide-WLAN5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5700 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5700 MHz; σ = 5.02 mho/m; ε_r = 35.8; ρ = 1000 kg/m³
Phantom section: Right Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Configuration:
- Probe: EX3DV4 - SN3566; ConvF(4.16, 4.16, 4.16); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

RightHandSide/Tilt position - Channel 140/Area Scan (91x121x1): Measurement
grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.537 mW/g

## RightHandSide/Tilt position - Channel 140/Zoom Scan (7x7x7)
## (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 9.960 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.453 mW/g
SAR(1 g) = 0.215 mW/g; SAR(10 g) = 0.071 mW/g
Maximum value of SAR (measured) = 0.419 mW/g
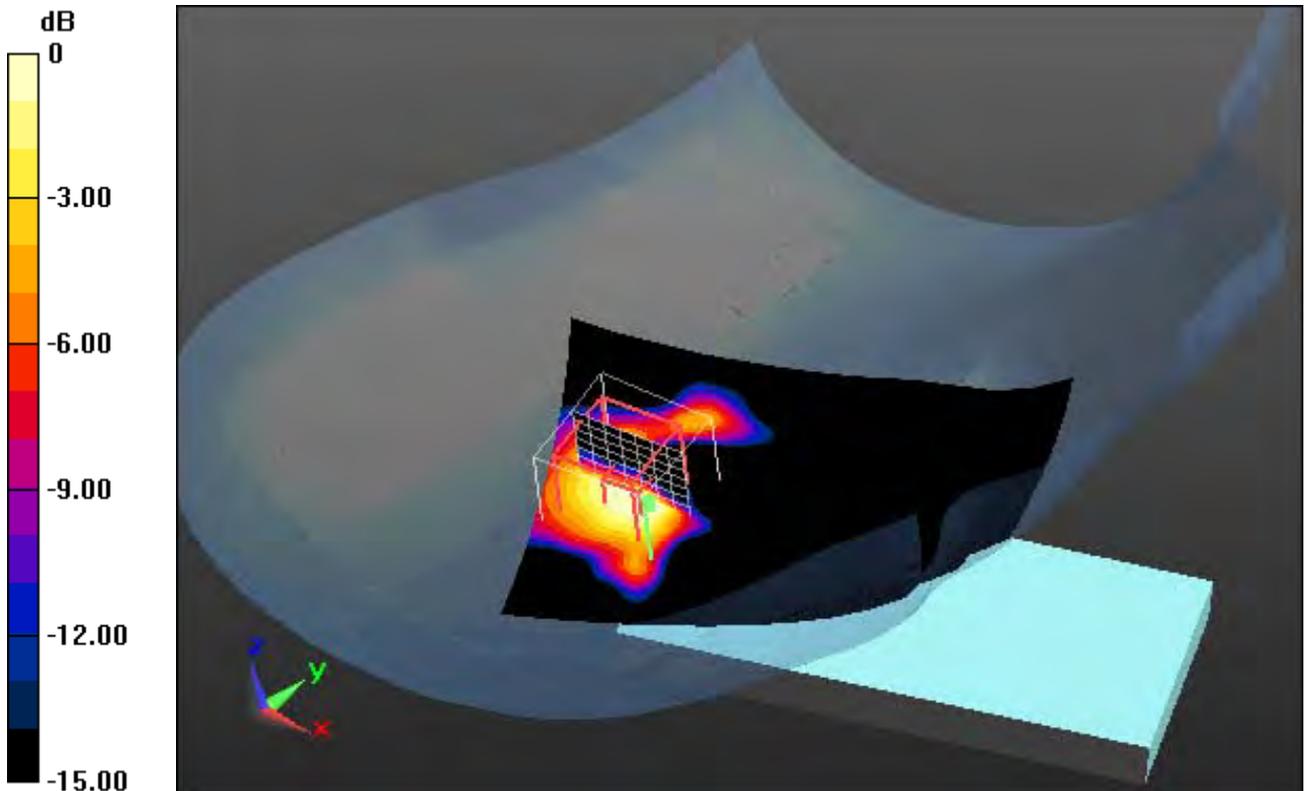
0 dB = 0.419 mW/g = -7.56 dB mW/g

Additional information:
ambient temperature: 23.3°C; liquid temperature: 21.7°C

CETECOM™

Date/Time: 30.07.2012 20:57:38

IEEE1528_EN62209-RightHandSide-WLAN5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5745 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): f = 5745 MHz; σ = 5.065 mho/m; ε_r = 35.71; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN3566; ConvF(4.16, 4.16, 4.16); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

RightHandSide/Tilt position - Channel 149/Area Scan (91x121x1): Measurement
grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.594 mW/g

RightHandSide/Tilt position - Channel 149/Zoom Scan (7x7x7)
## (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 9.864 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.713 mW/g

SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.067 mW/g

Maximum value of SAR (measured) = 0.425 mW/g
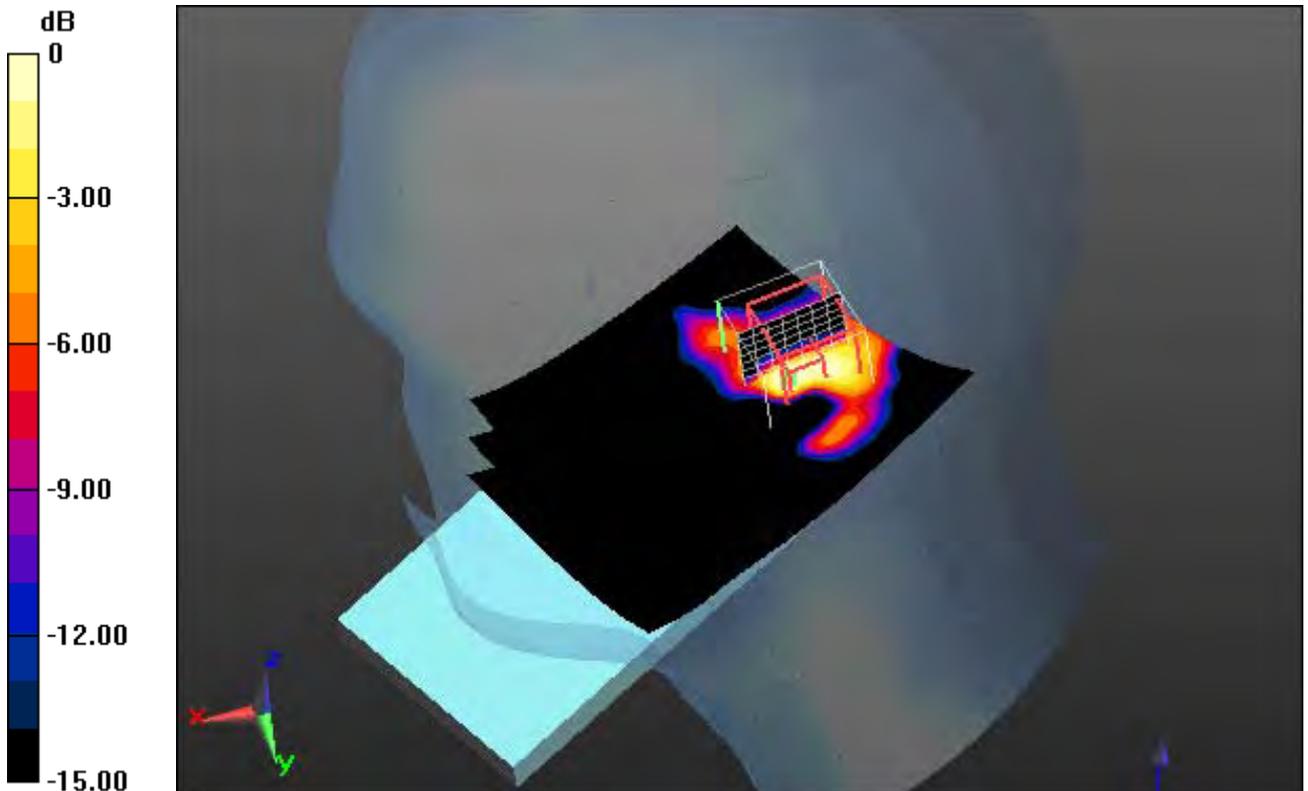
0 dB = 0.425 mW/g = -7.43 dB mW/g

Additional information:

ambient temperature: 23.3°C; liquid temperature: 21.7°C

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Annex B.20: WLAN 5GHz body hotspot

OET65_EN62209-2-Body-WLAN 5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5200 MHz; Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5200 MHz; σ = 5.34 mho/m; ε_r = 48.02; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.83, 3.83, 3.83); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hotspot/Front position - Channel 40/Area Scan (91x141x1): Measurement grid:
dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.153 mW/g

Hotspot/Front position - Channel 40/Zoom Scan (7x7x7) (9x12x8)/Cube 0:
Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 5.330 V/m; Power Drift = 0.014 dB
Peak SAR (extrapolated) = 0.371 mW/g
SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.023 mW/g
Maximum value of SAR (measured) = 0.135 mW/g
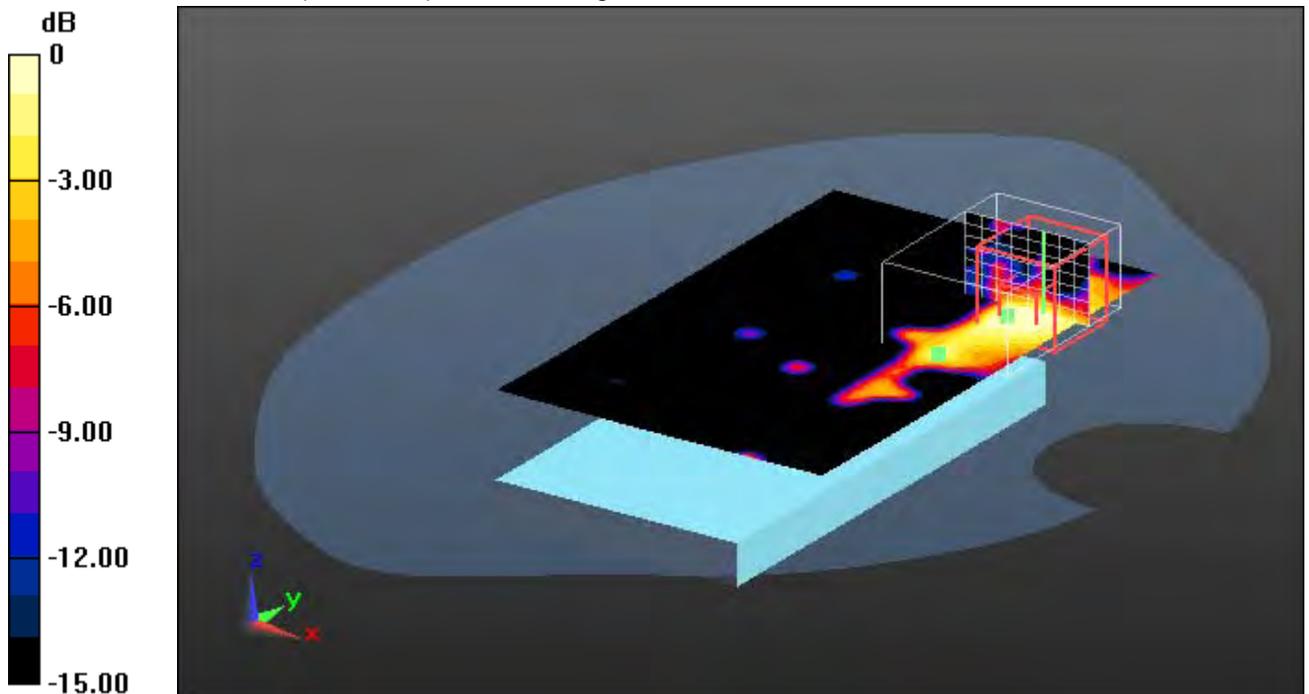
0 dB = 0.135 mW/g = -17.39 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 11:40:49

OET65_EN62209-2-Body-WLAN 5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5280 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5280 MHz; σ = 5.41 mho/m; $ε_r$ = 47.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.6, 3.6, 3.6); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hotspot/Front position - Channel 56/Area Scan (91x141x1): Measurement grid:
dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.202 mW/g

Hotspot/Front position - Channel 56/Zoom Scan (7x7x7) 2 (8x8x8)/Cube 0:
Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 5.663 V/m; Power Drift = 0.054 dB
Peak SAR (extrapolated) = 0.283 mW/g
SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.022 mW/g
Maximum value of SAR (measured) = 0.146 mW/g
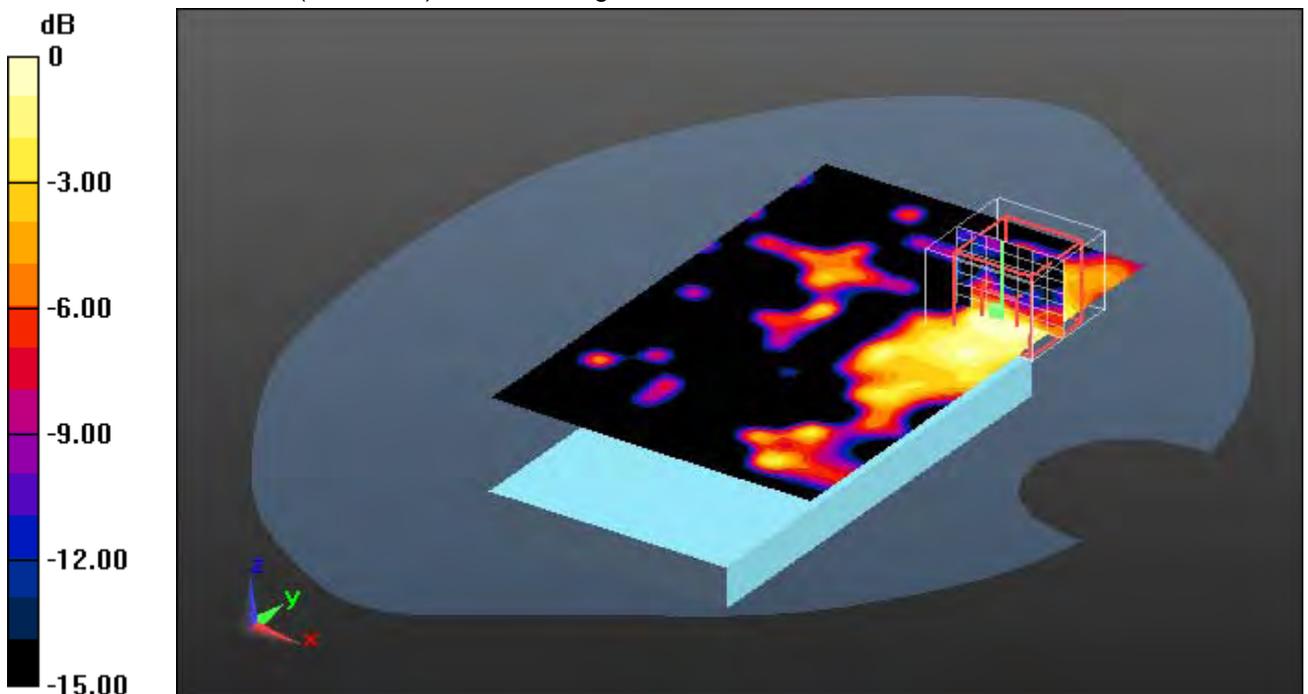
0 dB = 0.146 mW/g = -16.71 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 14:52:17

OET65_EN62209-2-Body-WLAN 5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5700 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 5700 MHz; σ = 5.97 mho/m; ε_r = 46.89; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Hotspot:

- Probe: EX3DV4 - SN3566; ConvF(3.56, 3.56, 3.56); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hotspot/Front position - Channel 140/Area Scan (91x141x1): Measurement grid:

dx=10mm, dy=10mm

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

## Hotspot/Front position - Channel 140/Zoom Scan (7x7x7) 2 (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 5.086 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 0.404 mW/g

SAR(1 g) = 0.058 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.125 mW/g
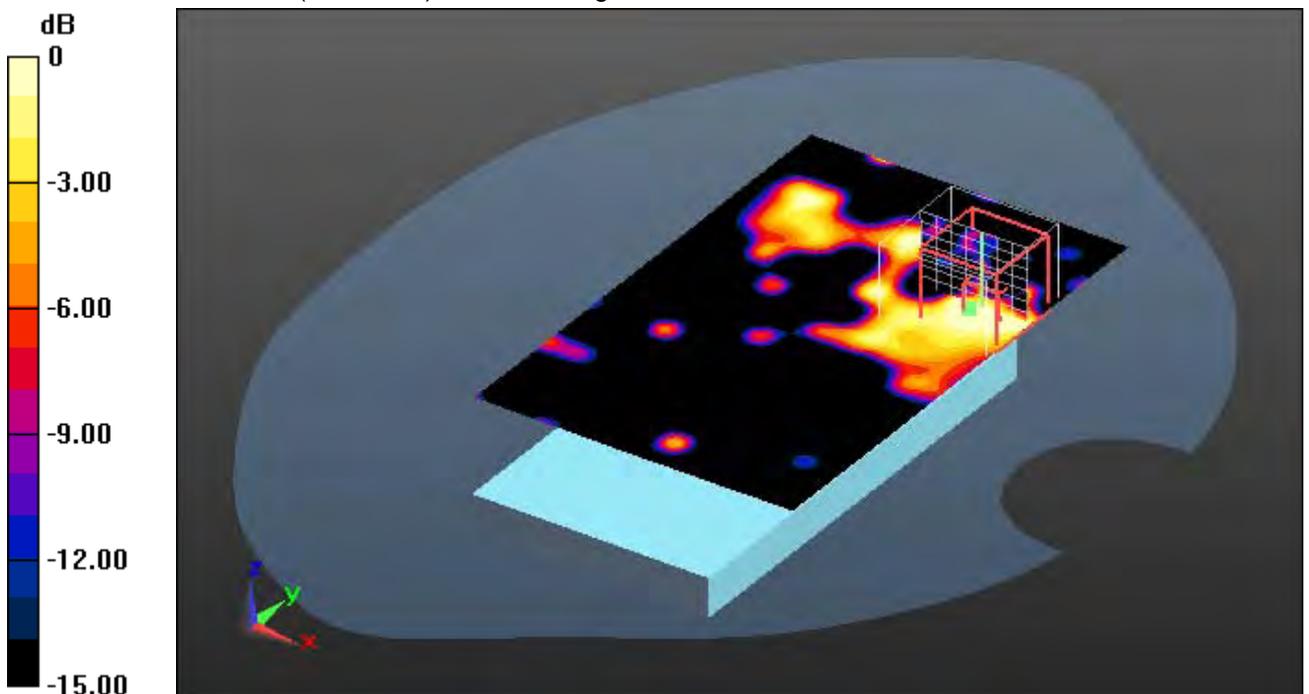
0 dB = 0.125 mW/g = -18.06 dB mW/g

Additional information:

position or distance of DUT to SAM: 10mm

ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 19:17:39

OET65_EN62209-2-Body-WLAN 5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5745 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5745 MHz; σ = 6.01 mho/m; ε_r = 46.75; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.56, 3.56, 3.56); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hotspot/Front position - Channel 149/Area Scan (91x141x1): Measurement grid:
dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.319 mW/g

## Hotspot/Front position - Channel 149/Zoom Scan (7x7x7) 2 (8x8x8)/Cube 0:
Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 4.460 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.396 mW/g
SAR(1 g) = 0.044 mW/g; SAR(10 g) = 0.012 mW/g
Maximum value of SAR (measured) = 0.0877 mW/g
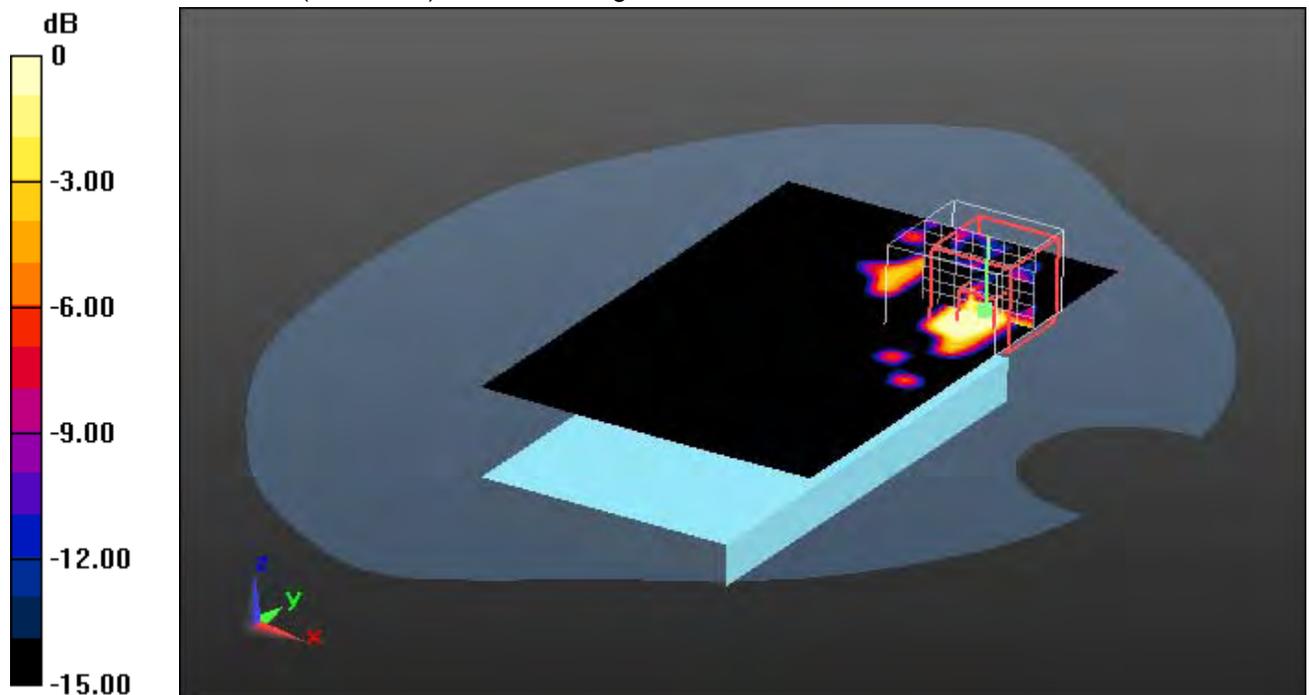
0 dB = 0.0877 mW/g = -21.14 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 08:10:21

OET65_EN62209-2-Body-WLAN 5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5200 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5200 MHz; σ = 5.34 mho/m; ε_r = 48.02; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.83, 3.83, 3.83); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hotspot/Rear position - Channel 40/Area Scan (91x141x1): Measurement grid:
dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.333 mW/g

## Hotspot/Rear position - Channel 40/Zoom Scan (7x7x7) (8x8x8)/Cube 0:
Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 7.633 V/m; Power Drift = 0.018 dB
Peak SAR (extrapolated) = 0.425 mW/g
SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.051 mW/g
Maximum value of SAR (measured) = 0.275 mW/g
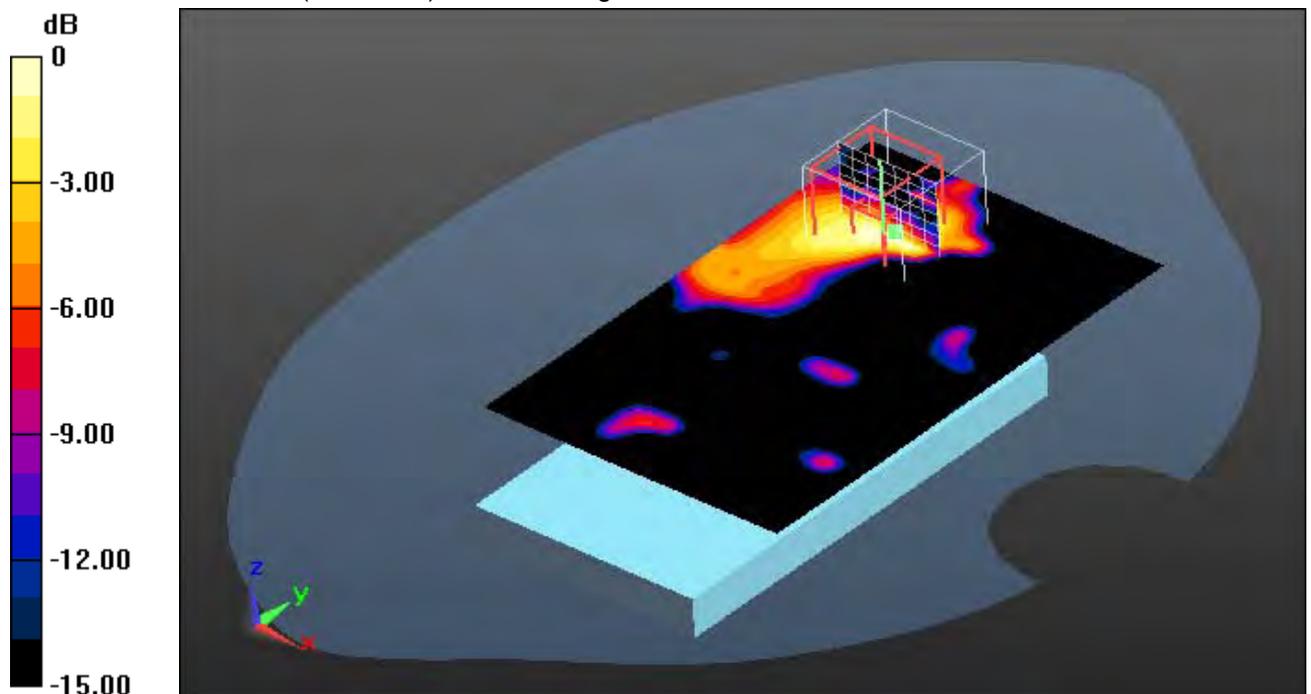
0 dB = 0.275 mW/g = -11.21 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 12:06:21

OET65_EN62209-2-Body-WLAN 5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5280 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5280 MHz; σ = 5.41 mho/m; ε_r = 47.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.6, 3.6, 3.6); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hotspot/Rear position - Channel 56/Area Scan (91x141x1): Measurement grid:
dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.281 mW/g

## Hotspot/Rear position - Channel 56/Zoom Scan (7x7x7) (11x8x8)/Cube 0:
Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 6.974 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.441 mW/g
SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.036 mW/g
Maximum value of SAR (measured) = 0.198 mW/g
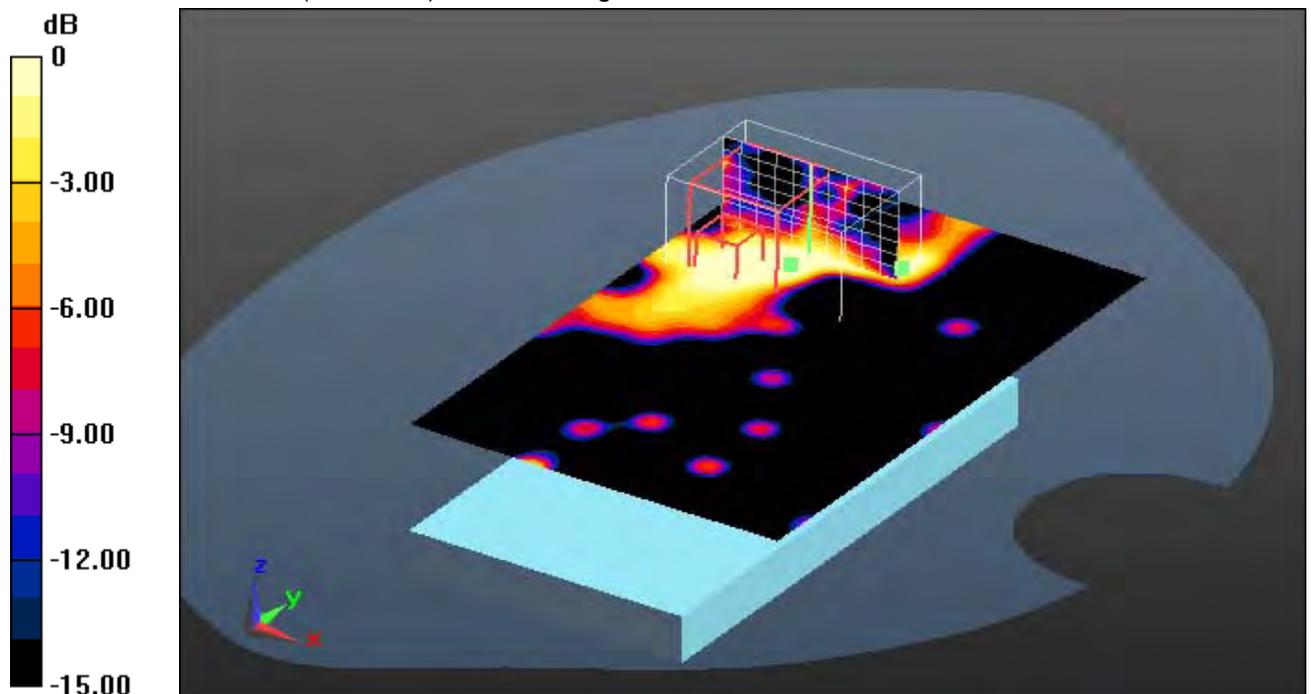
0 dB = 0.198 mW/g = -14.07 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

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Date/Time: 26.07.2012 14:24:23

OET65_EN62209-2-Body-WLAN 5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5700 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5700 MHz; σ = 5.97 mho/m; ε_r = 46.89; ρ = 1000 kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.56, 3.56, 3.56); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hotspot/Rear position - Channel 140/Area Scan (91x141x1): Measurement grid:
dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.658 mW/g

## Hotspot/Rear position - Channel 140/Zoom Scan (7x7x7) (8x8x8)/Cube 0:
Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 10.215 V/m; Power Drift = 0.030 dB
Peak SAR (extrapolated) = 0.998 mW/g
SAR(1 g) = 0.294 mW/g; SAR(10 g) = 0.105 mW/g
Maximum value of SAR (measured) = 0.545 mW/g
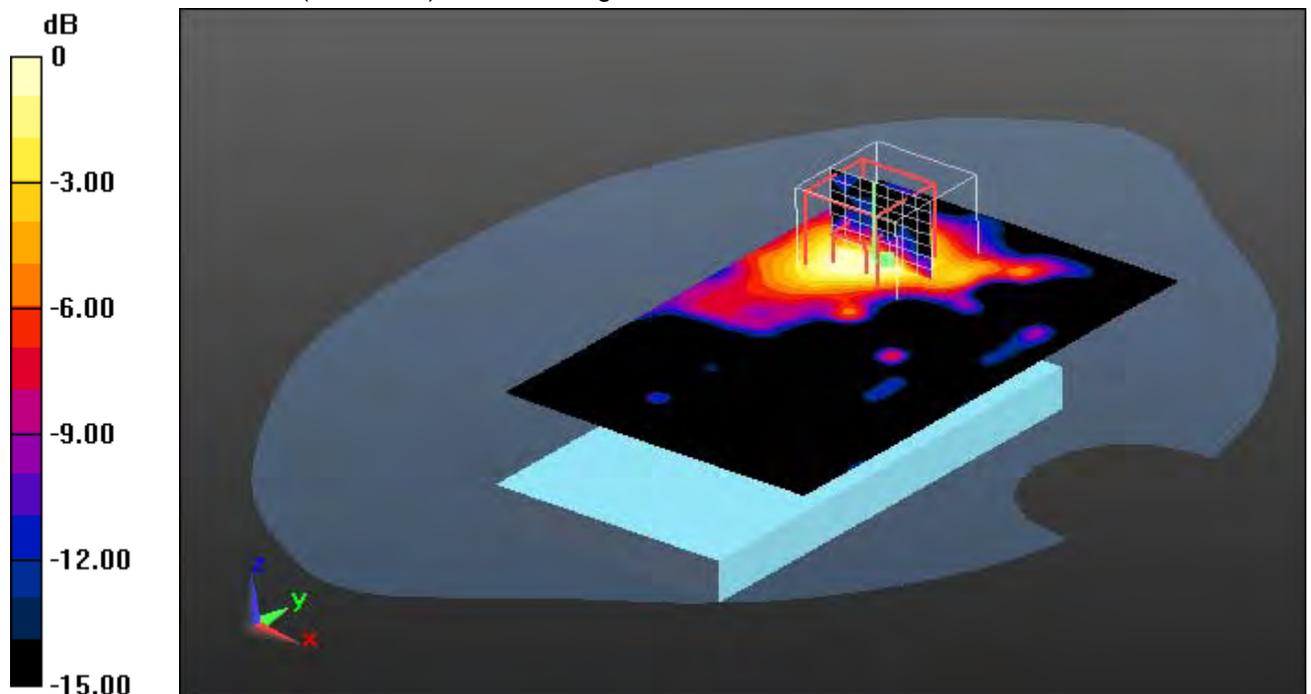
0 dB = 0.545 mW/g = -5.27 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 20:21:18

OET65_EN62209-2-Body-WLAN 5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5745 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 5745 MHz; σ = 6.01 mho/m; ε_r = 46.75; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Hotspot:

- Probe: EX3DV4 - SN3566; ConvF(3.56, 3.56, 3.56); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hotspot/Rear position - Channel 149/Area Scan (91x141x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.513 mW/g

## Hotspot/Rear position - Channel 149/Zoom Scan (7x7x7) (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.040 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.035 mW/g

SAR(1 g) = 0.282 mW/g; SAR(10 g) = 0.096 mW/g

Maximum value of SAR (measured) = 0.551 mW/g
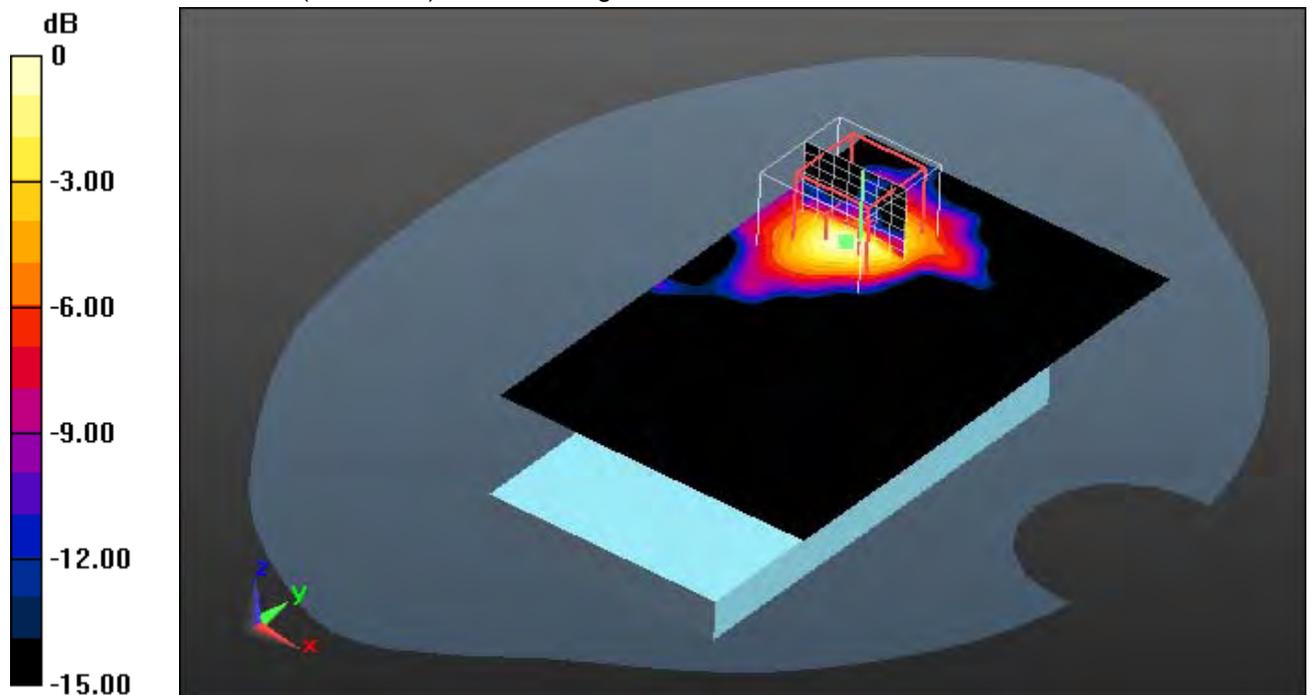
0 dB = 0.551 mW/g = -5.18 dB mW/g

Additional information:

position or distance of DUT to SAM: 10mm

ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 08:41:18

OET65_EN62209-2-Body_right-WLAN 5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5200 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5200 MHz; σ = 5.34 mho/m; $ε_r$ = 48.02; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.83, 3.83, 3.83); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hot spot/Edge right position - Channel 40/Area Scan (71x131x1): Measurement
grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.301 mW/g

## Hot spot/Edge right position - Channel 40/Zoom Scan (7x7x7) (8x8x8)/Cube

0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 5.669 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.442 mW/g
SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.055 mW/g
Maximum value of SAR (measured) = 0.295 mW/g
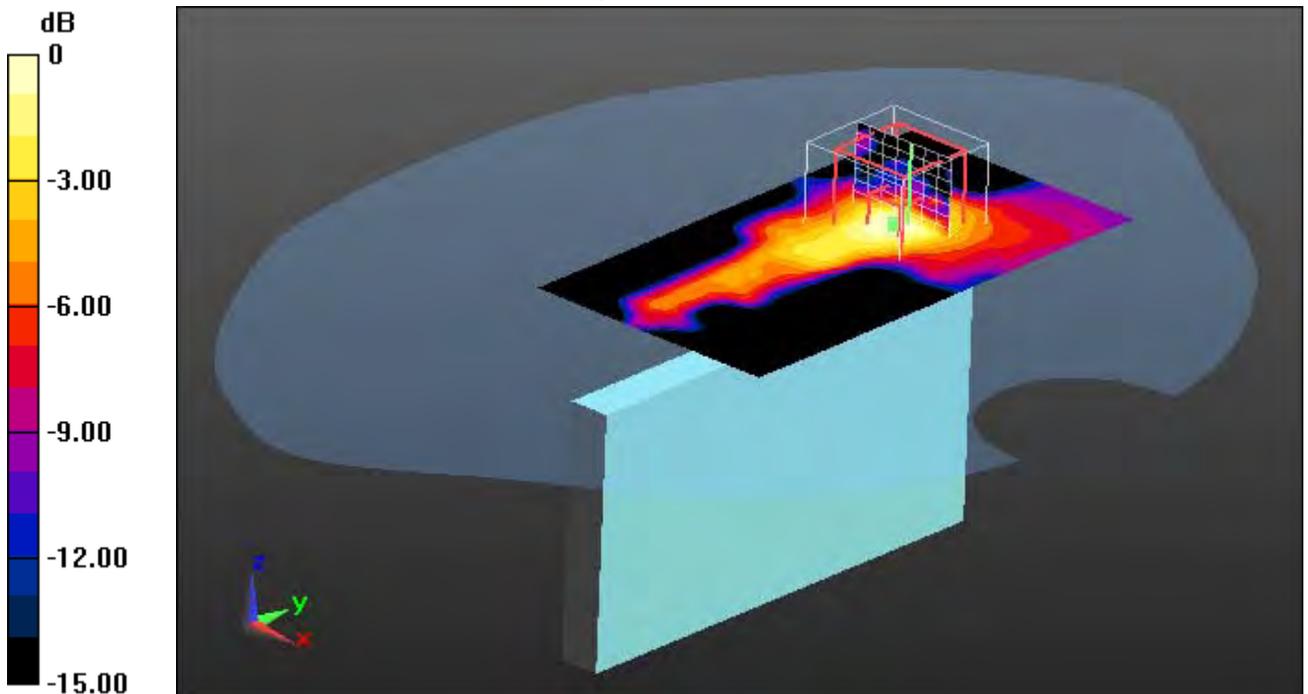
0 dB = 0.295 mW/g = -10.60 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 11:16:32

OET65_EN62209-2-Body_right-WLAN 5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5280 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5280 MHz; σ = 5.41 mho/m; ε_r = 47.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.6, 3.6, 3.6); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hot spot/Edge right position - Channel 56/Area Scan (71x131x1): Measurement
grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.325 mW/g

## Hot spot/Edge right position - Channel 56/Zoom Scan (7x7x7) (8x8x8)/Cube

0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 5.247 V/m; Power Drift = 0.016 dB
Peak SAR (extrapolated) = 0.493 mW/g
SAR(1 g) = 0.182 mW/g; SAR(10 g) = 0.061 mW/g
Maximum value of SAR (measured) = 0.493 mW/g
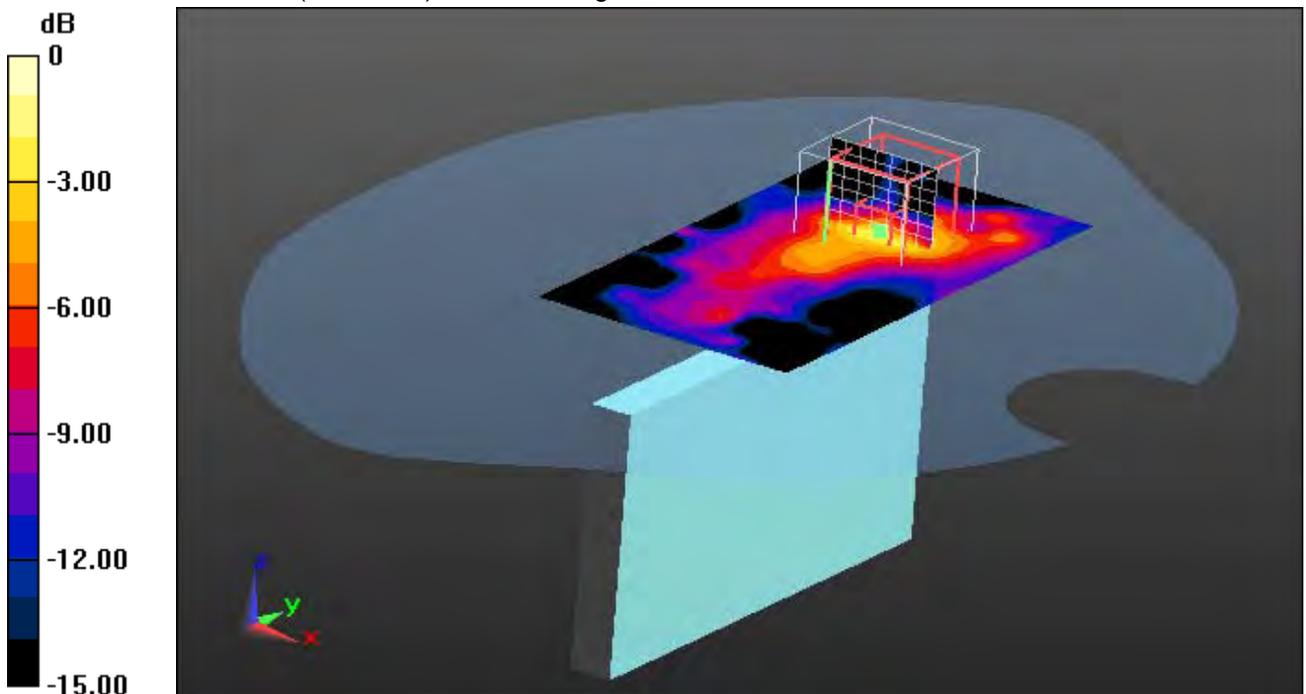
0 dB = 0.493 mW/g = -6.14 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

OET65_EN62209-2-Body_right-WLAN 5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5700 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5700 MHz; σ = 5.97 mho/m; ε_r = 46.89; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.56, 3.56, 3.56); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-
Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hot spot/Edge right position - Channel 140/Area Scan (71x131x1):
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.350 mW/g

Hot spot/Edge right position - Channel 140/Zoom Scan (7x7x7)
## (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 5.607 V/m; Power Drift = -0.014 dB
Peak SAR (extrapolated) = 1.136 mW/g
SAR(1 g) = 0.142 mW/g; SAR(10 g) = 0.053 mW/g
Maximum value of SAR (measured) = 0.320 mW/g
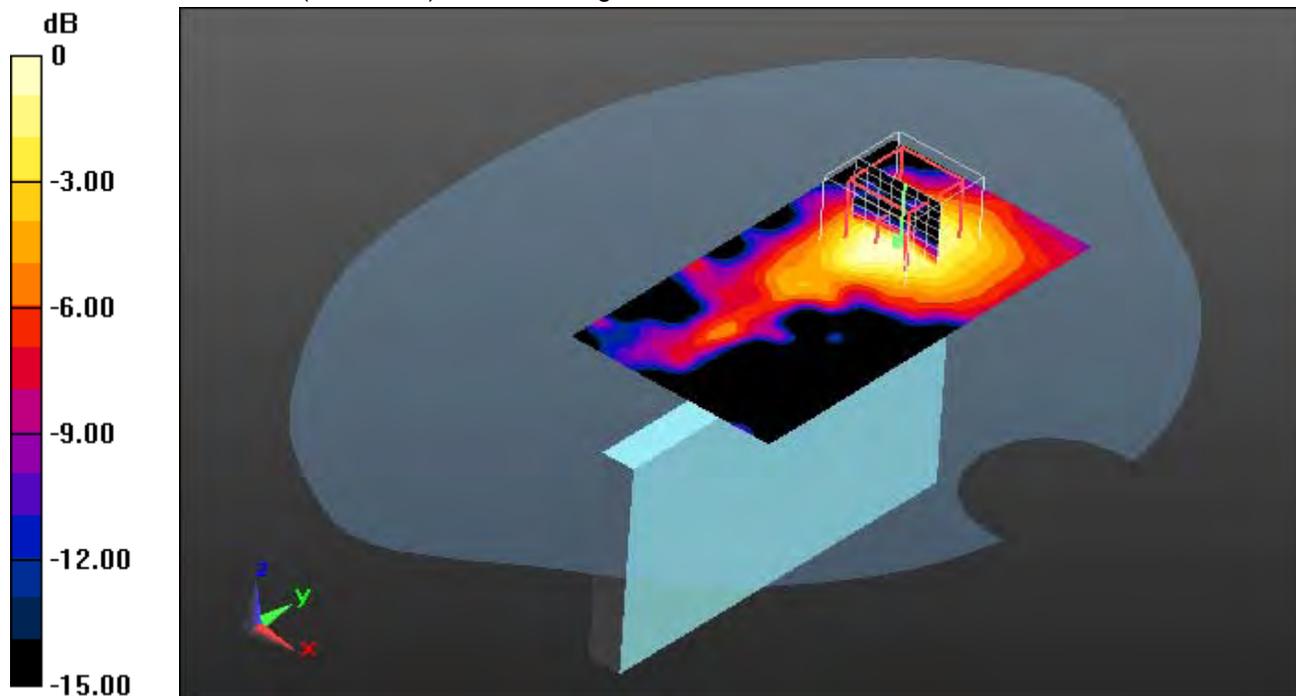
0 dB = 0.320 mW/g = -9.90 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

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OET65_EN62209-2-Body_right-WLAN 5GHz.da4
DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5745 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5745 MHz; σ = 6.01 mho/m; ε_r = 46.75; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.56, 3.56, 3.56); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hot spot/Edge right position - Channel 149/Area Scan (71x131x1):
Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.306 mW/g

## Hot spot/Edge right position - Channel 149/Zoom Scan (7x7x7)
(8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 5.091 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.363 mW/g
SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.049 mW/g
Maximum value of SAR (measured) = 0.297 mW/g
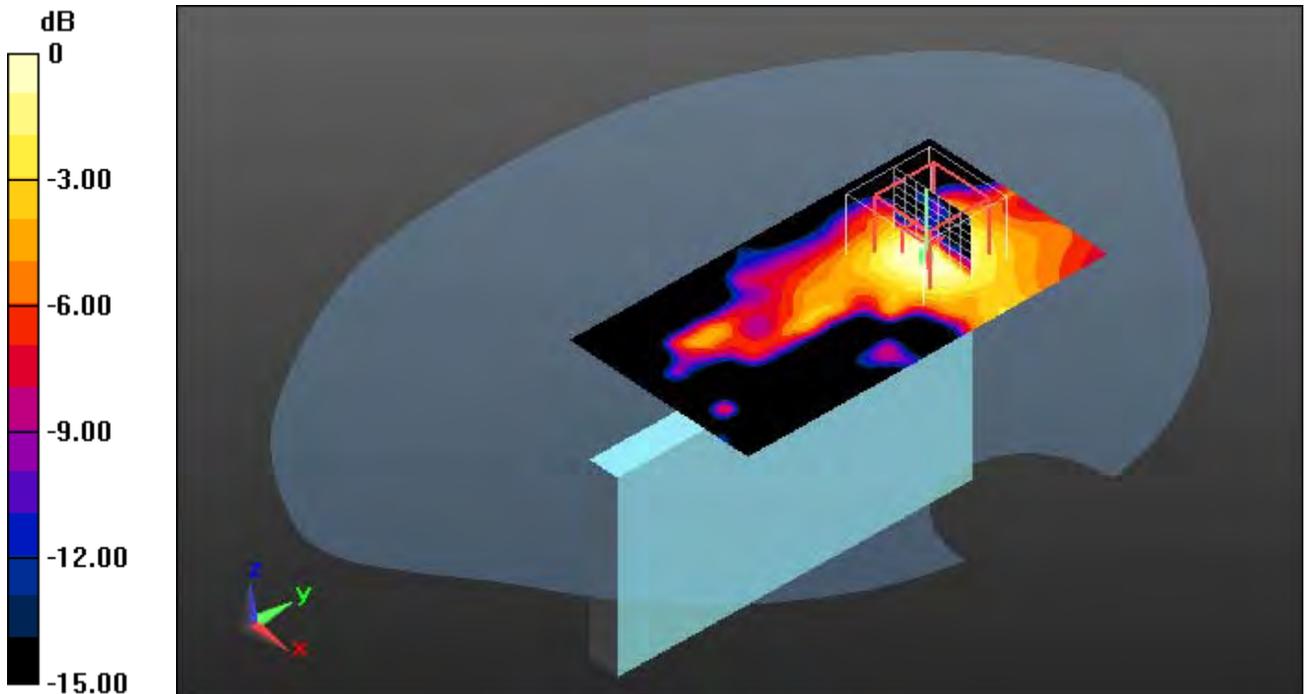
0 dB = 0.297 mW/g = -10.54 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 09:23:50

OET65_EN62209-2-Body_top-WLAN 5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5200 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5200 MHz; σ = 5.34 mho/m; ε_r = 48.02; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.83, 3.83, 3.83); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hot spot/Edge top position - Channel 40/Area Scan (81x81x1): Measurement

grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.318 mW/g

Hot spot/Edge top position - Channel 40/Zoom Scan (7x7x7) (8x8x8)/Cube

**0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 5.166 V/m; Power Drift = 0.033 dB
Peak SAR (extrapolated) = 0.322 mW/g
SAR(1 g) = 0.120 mW/g; SAR(10 g) = 0.043 mW/g
Maximum value of SAR (measured) = 0.255 mW/g
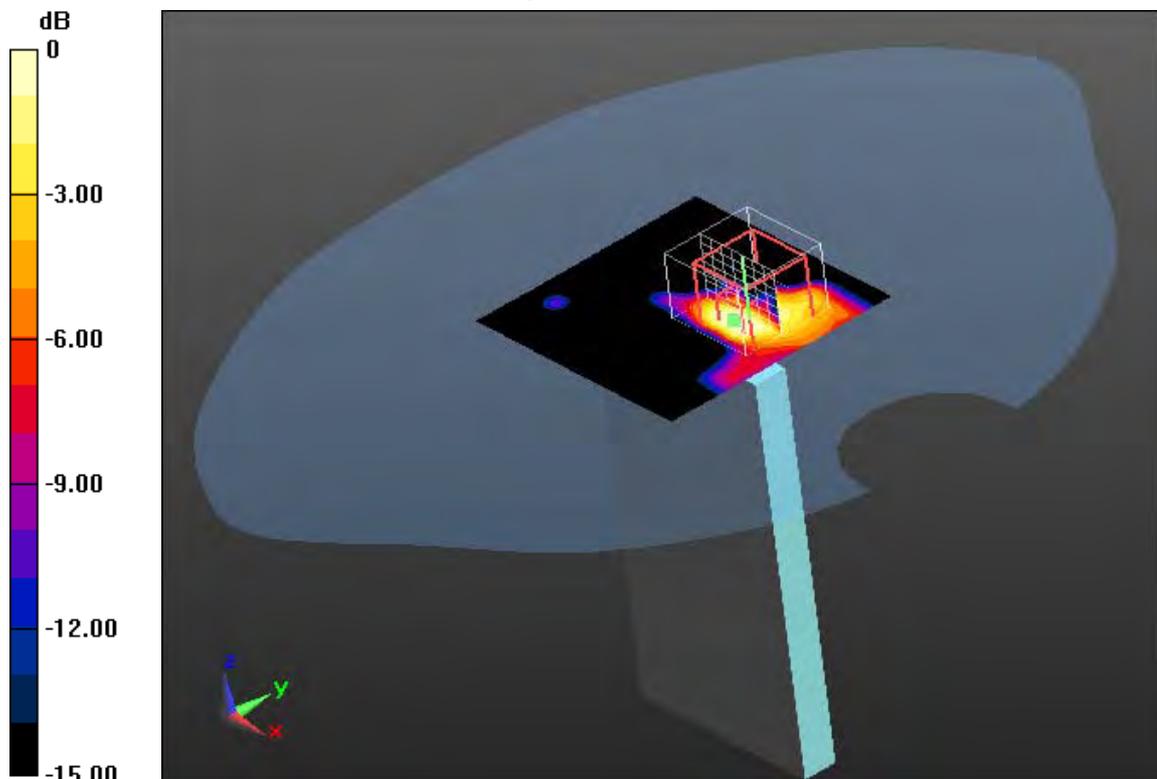
0 dB = 0.255 mW/g = -11.87 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

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Date/Time: 26.07.2012 10:54:38

OET65_EN62209-2-Body_top-WLAN 5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9
Communication System: WLAN 5GHz; Frequency: 5280 MHz;Communication System PAR: 0 dB; PMF: 1
Medium parameters used: f = 5280 MHz; σ = 5.41 mho/m; ε_r = 47.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
DASY5 Hotspot:
- Probe: EX3DV4 - SN3566; ConvF(3.6, 3.6, 3.6); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hot spot/Edge top position - Channel 56/Area Scan (81x81x1): Measurement
grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.206 mW/g

Hot spot/Edge top position - Channel 56/Zoom Scan (7x7x7) (8x8x8)/Cube

**0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 4.026 V/m; Power Drift = 0.014 dB
Peak SAR (extrapolated) = 0.471 mW/g
SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.020 mW/g
Maximum value of SAR (measured) = 0.152 mW/g
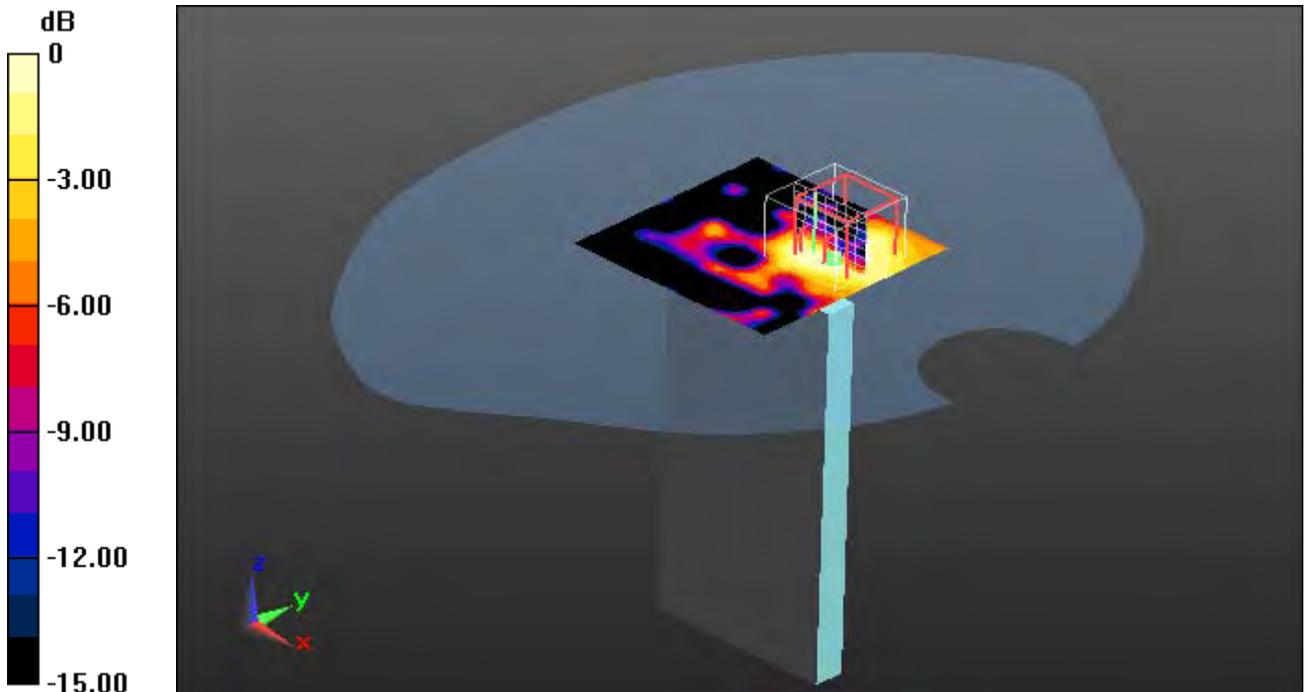
0 dB = 0.152 mW/g = -16.36 dB mW/g

Additional information:
position or distance of DUT to SAM: 10mm
ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 15:40:10

OET65_EN62209-2-Body_top-WLAN 5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5700 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 5700 MHz; σ = 5.97 mho/m; ε_r = 46.89; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Hotspot:

- Probe: EX3DV4 - SN3566; ConvF(3.56, 3.56, 3.56); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hot spot/Edge top position - Channel 140/Area Scan (81x81x1): Measurement

grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.232 mW/g

## Hot spot/Edge top position - Channel 140/Zoom Scan (7x7x7) (8x8x8)/Cube

0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 3.914 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 0.337 mW/g

SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.206 mW/g
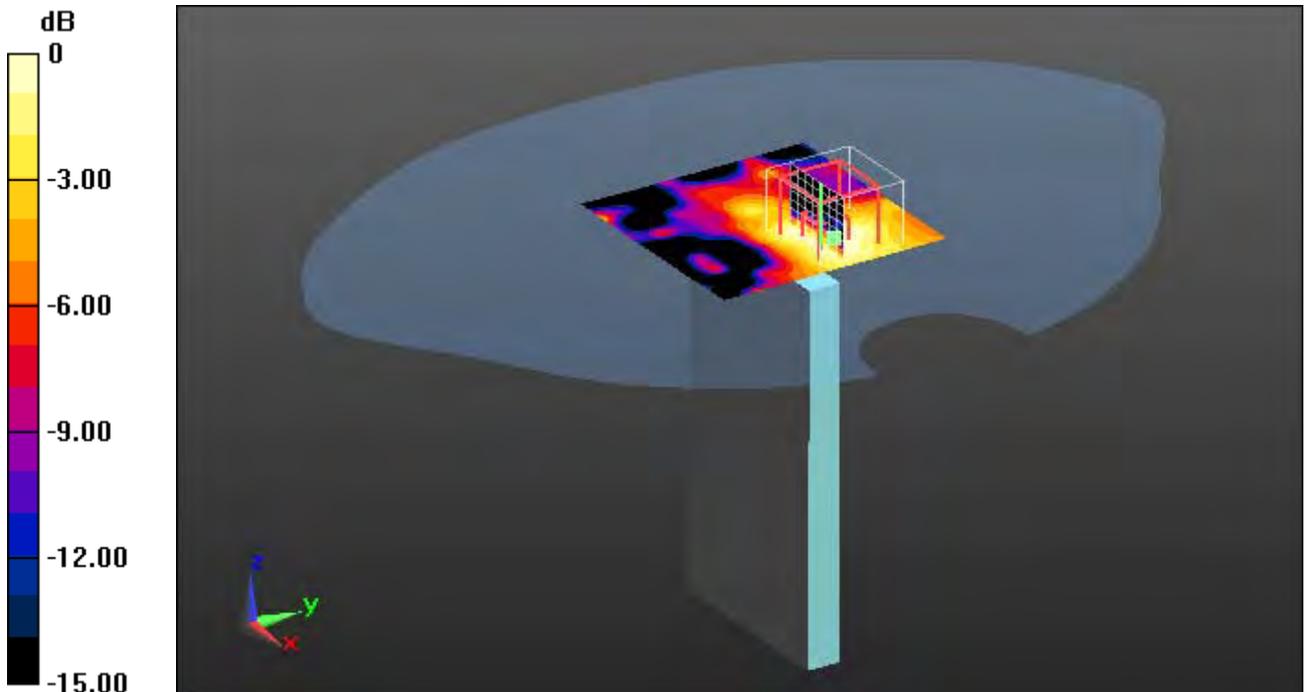
0 dB = 0.206 mW/g = -13.72 dB mW/g

Additional information:

position or distance of DUT to SAM: 10mm

ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 16:05:30

OET65_EN62209-2-Body_top-WLAN 5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5745 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 5745 MHz; σ = 6.01 mho/m; ε_r = 46.75; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Hotspot:

- Probe: EX3DV4 - SN3566; ConvF(3.56, 3.56, 3.56); Calibrated: 24.08.2011;

- Sensor-Surface: 2mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0

- Electronics: DAE3 Sn477; Calibrated: 09.05.2012

- Phantom: SAM Left; Type: SAM ; Serial: TP 1041

- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Hot spot/Edge top position - Channel 149/Area Scan (81x81x1): Measurement

grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.246 mW/g

Hot spot/Edge top position - Channel 149/Zoom Scan (7x7x7) (8x8x8)/Cube

**0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 4.407 V/m; Power Drift = 0.086 dB

Peak SAR (extrapolated) = 0.458 mW/g

SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.043 mW/g
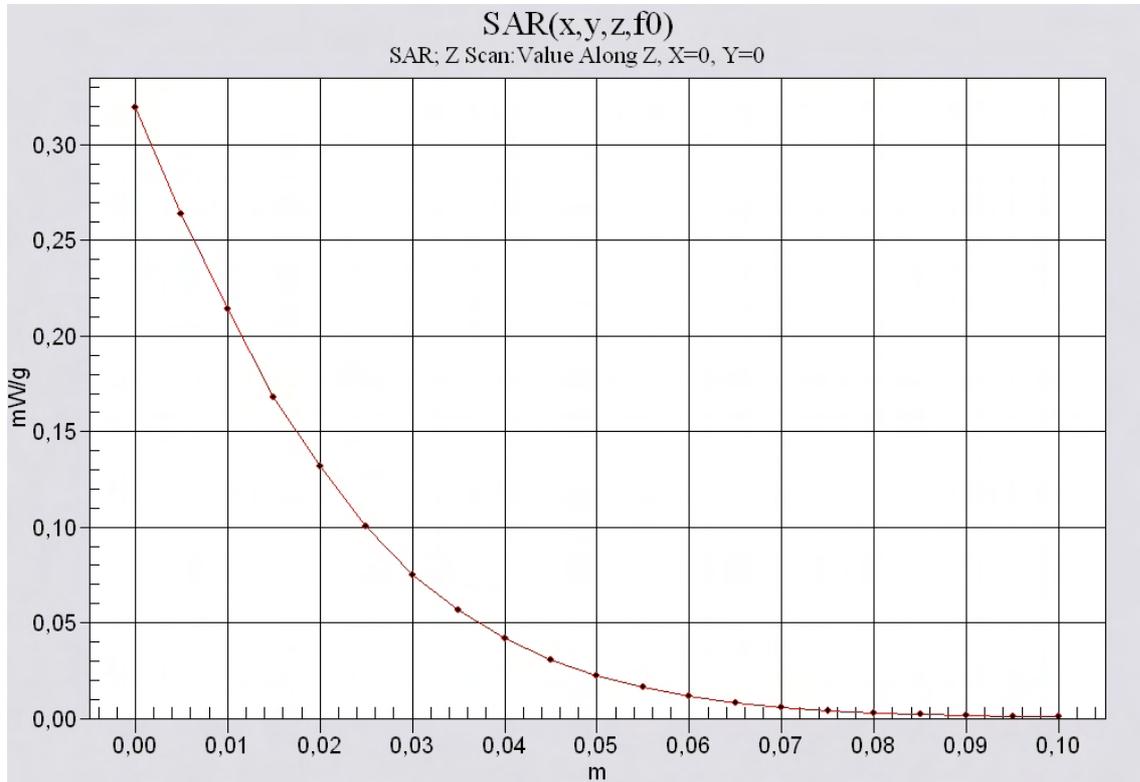
Maximum value of SAR (measured) = 0.233 mW/g
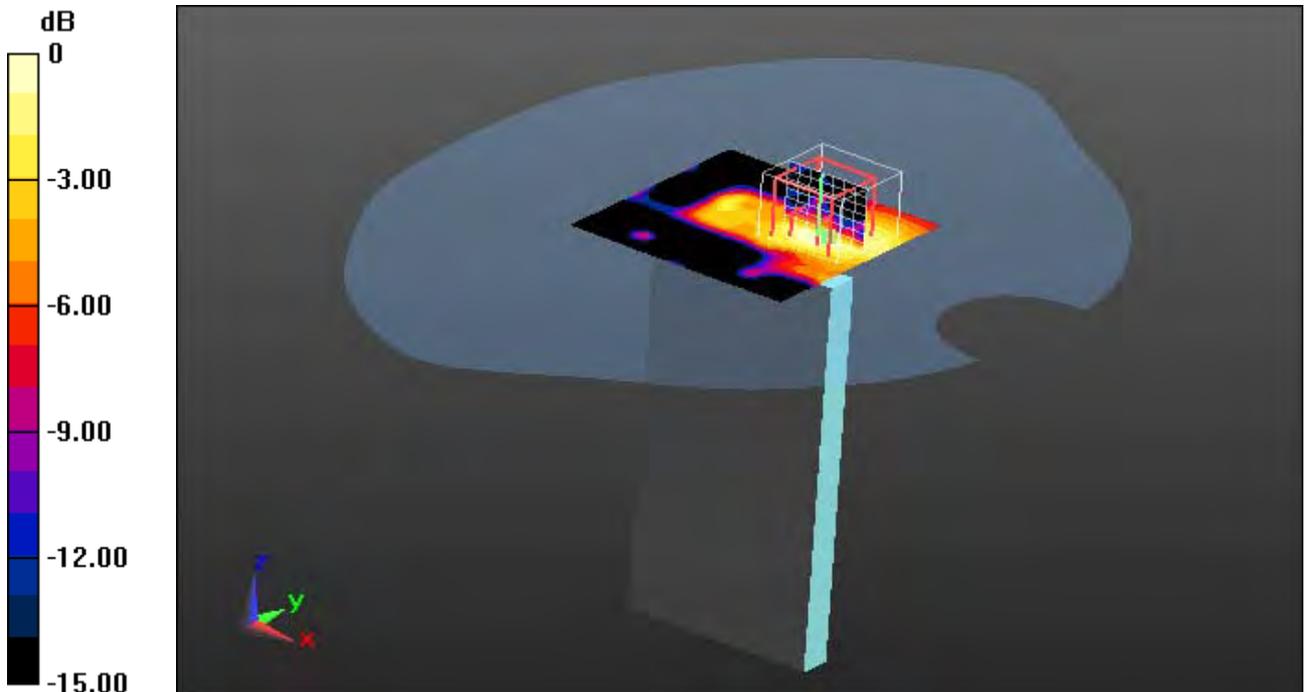
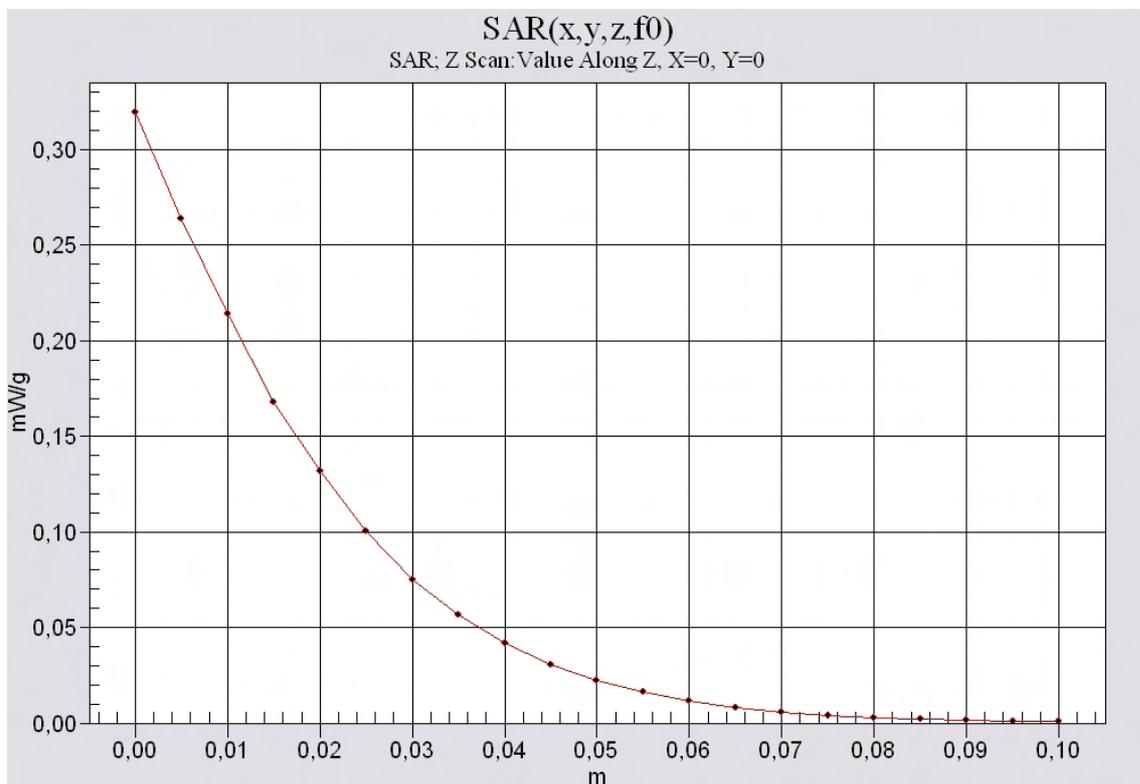0 dB = 0.233 mW/g = -12.65 dB mW/g

Additional information:

position or distance of DUT to SAM: 10mm
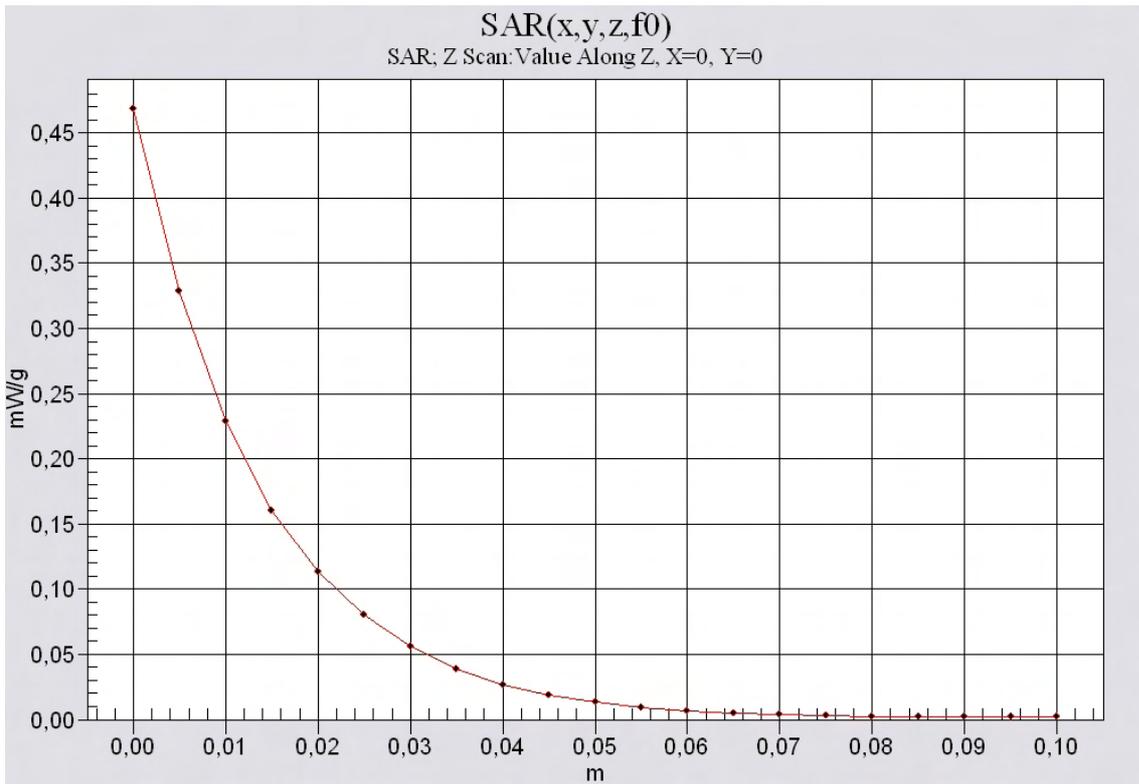
ambient temperature: 23.8°C; liquid temperature: 23.4°C

Date/Time: 26.07.2012 20:58:24

OET65_EN62209-2-Body-WLAN 5GHz.da4

DUT: Sony; Type: PM-0030-BV; Serial: CB511ZY9K9

Communication System: WLAN 5GHz; Frequency: 5700 MHz;Communication System PAR: 0 dB; PMF: 1

Medium parameters used: f = 5700 MHz; σ = 5.97 mho/m; ε_r = 46.89; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Hotspot:

- Probe: EX3DV4 - SN3566; ConvF(3.56, 3.56, 3.56); Calibrated: 24.08.2011;
- Sensor-Surface: 2mm (Mechanical Surface Detection), z = 1.0, 22.0
- Electronics: DAE3 Sn477; Calibrated: 09.05.2012
- Phantom: SAM Left; Type: SAM ; Serial: TP 1041
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

Rear position - Channel 140 15mm/Area Scan (91x141x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.182 mW/g

Rear position - Channel 140 15mm/Zoom Scan (7x7x7) (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 4.748 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 0.327 mW/g

SAR(1 g) = 0.052 mW/g; SAR(10 g) = 0.019 mW/g

Maximum value of SAR (measured) = 0.119 mW/g
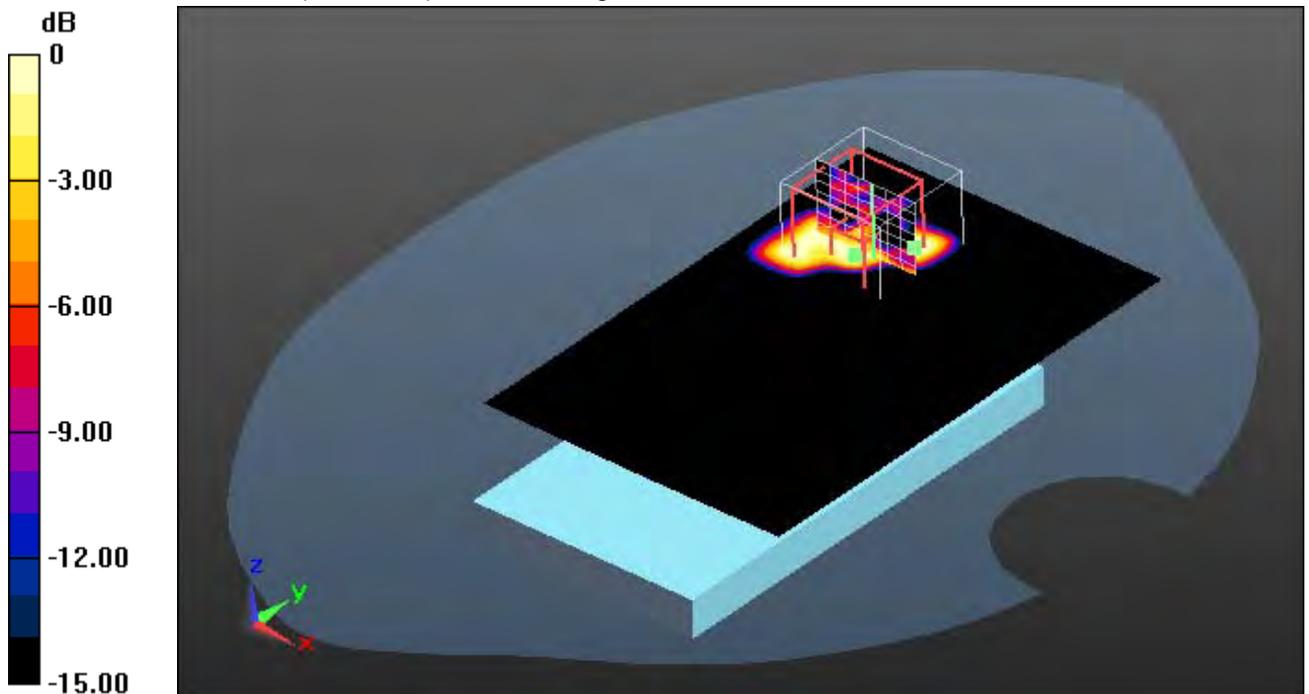
0 dB = 0.119 mW/g = -18.49 dB mW/g

Additional information:

position or distance of DUT to SAM: 15mm with headset

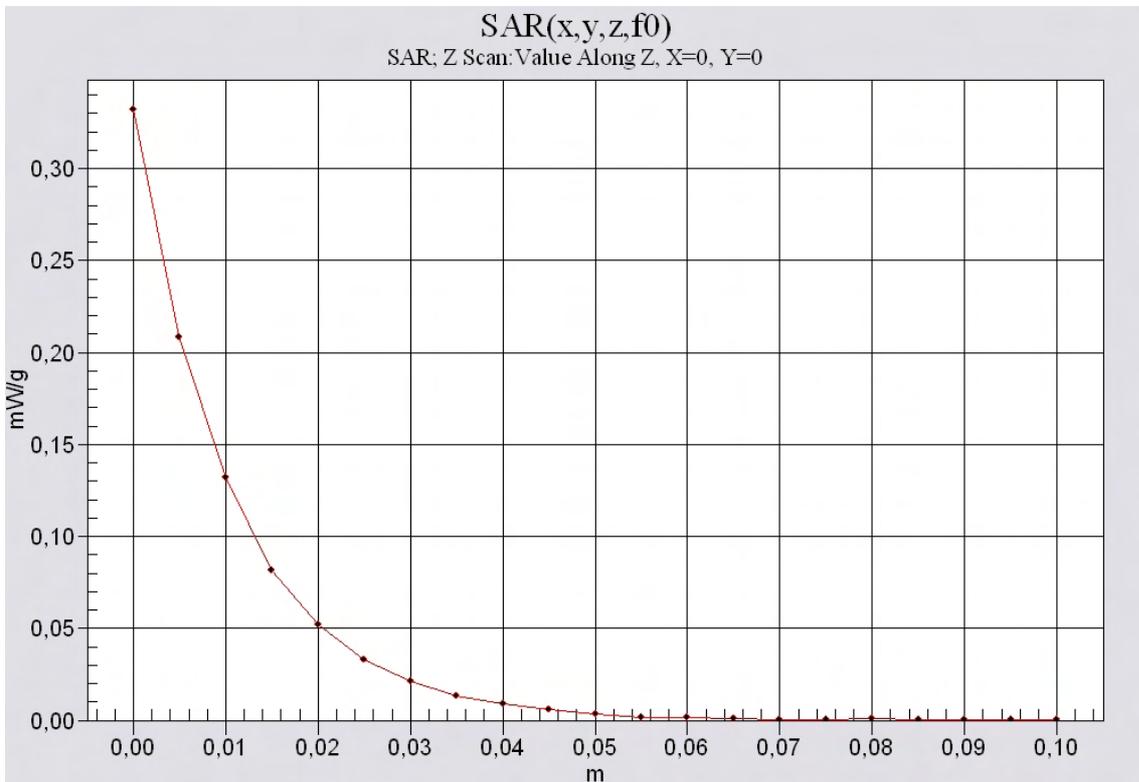ambient temperature: 23.8°C; liquid temperature: 23.4°C
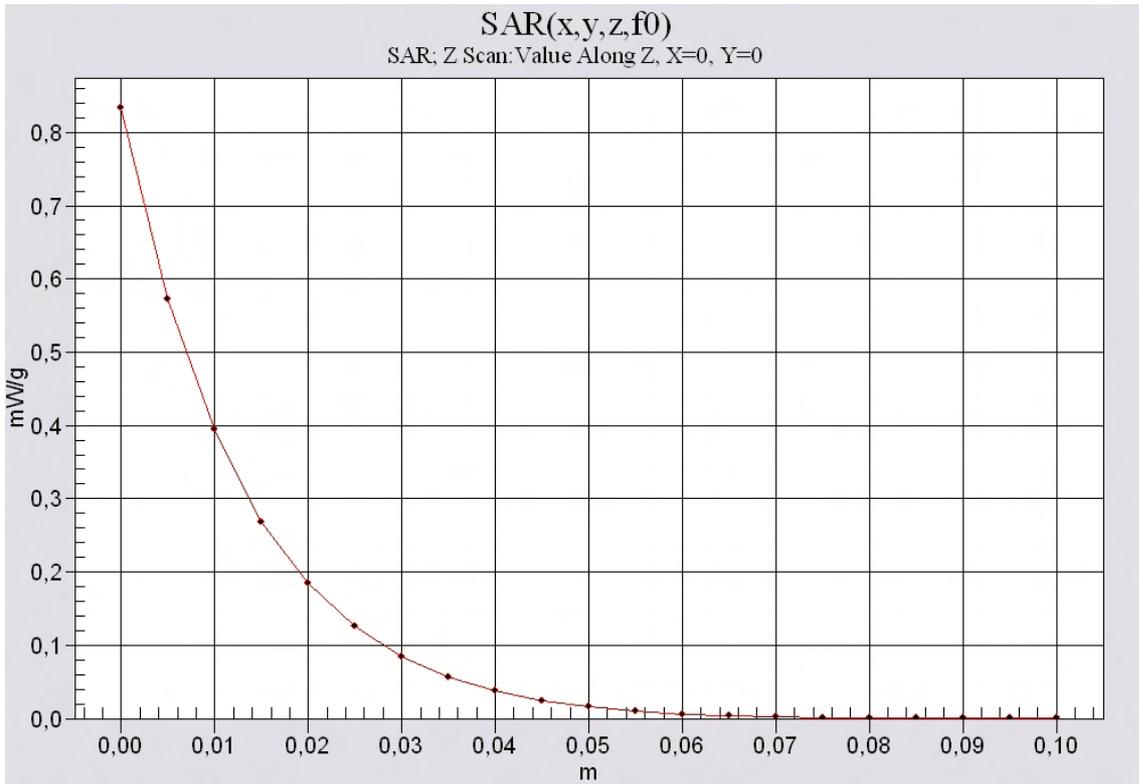
Annex B.22: Z-axis scan

850 head

850 body

SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0

1700 head

SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0
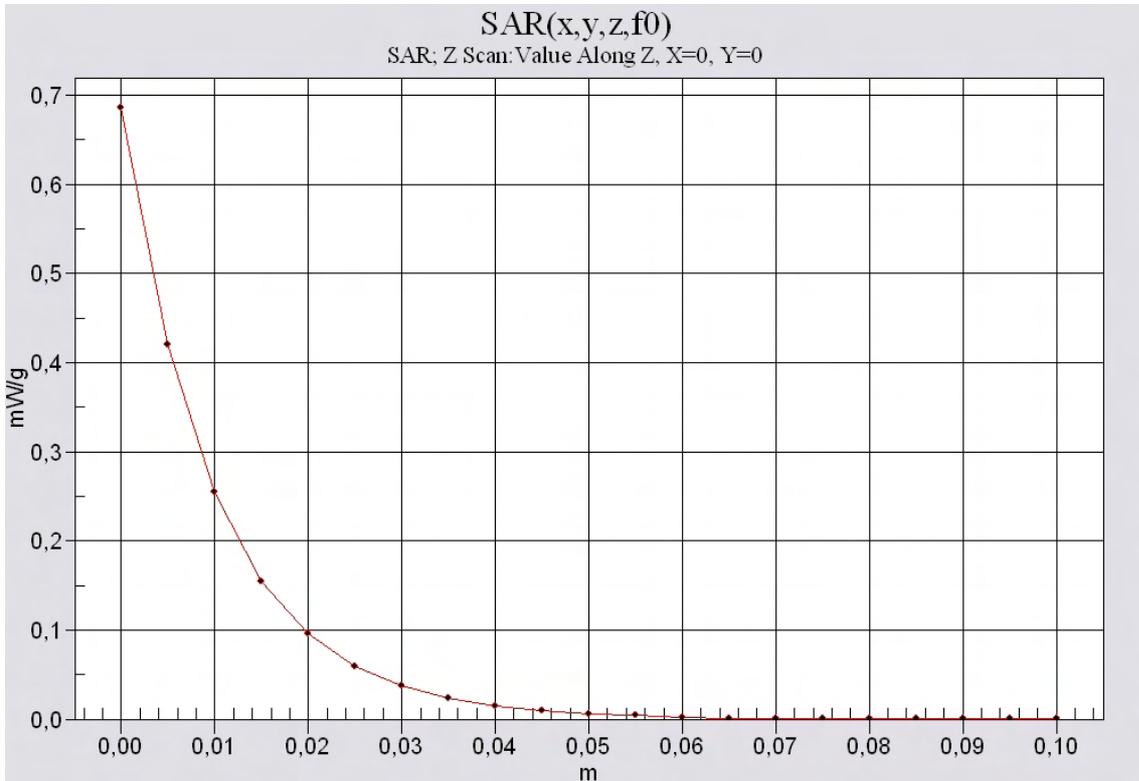
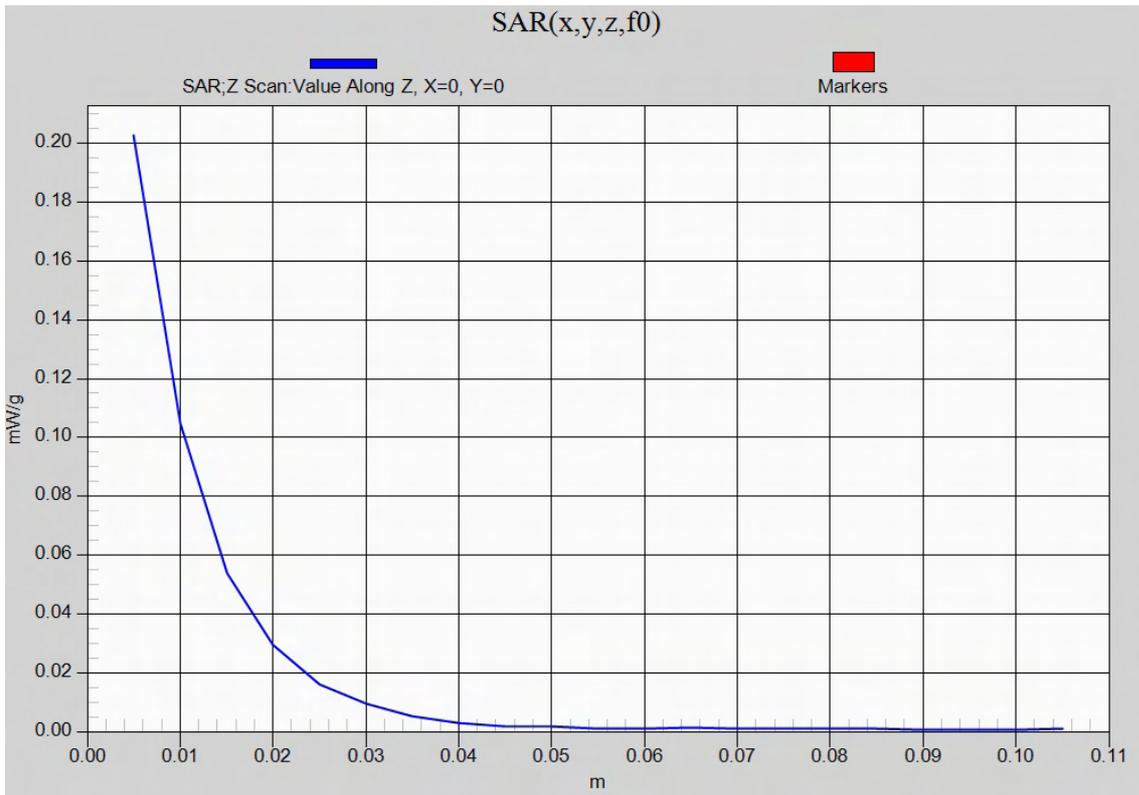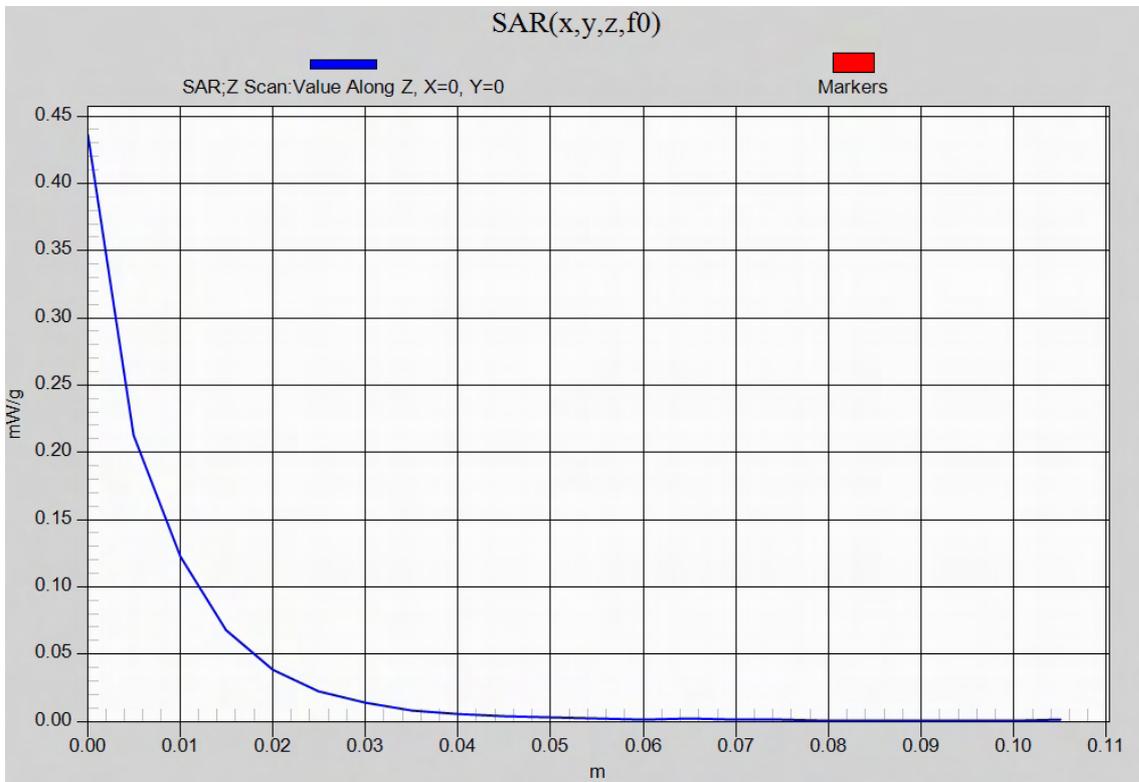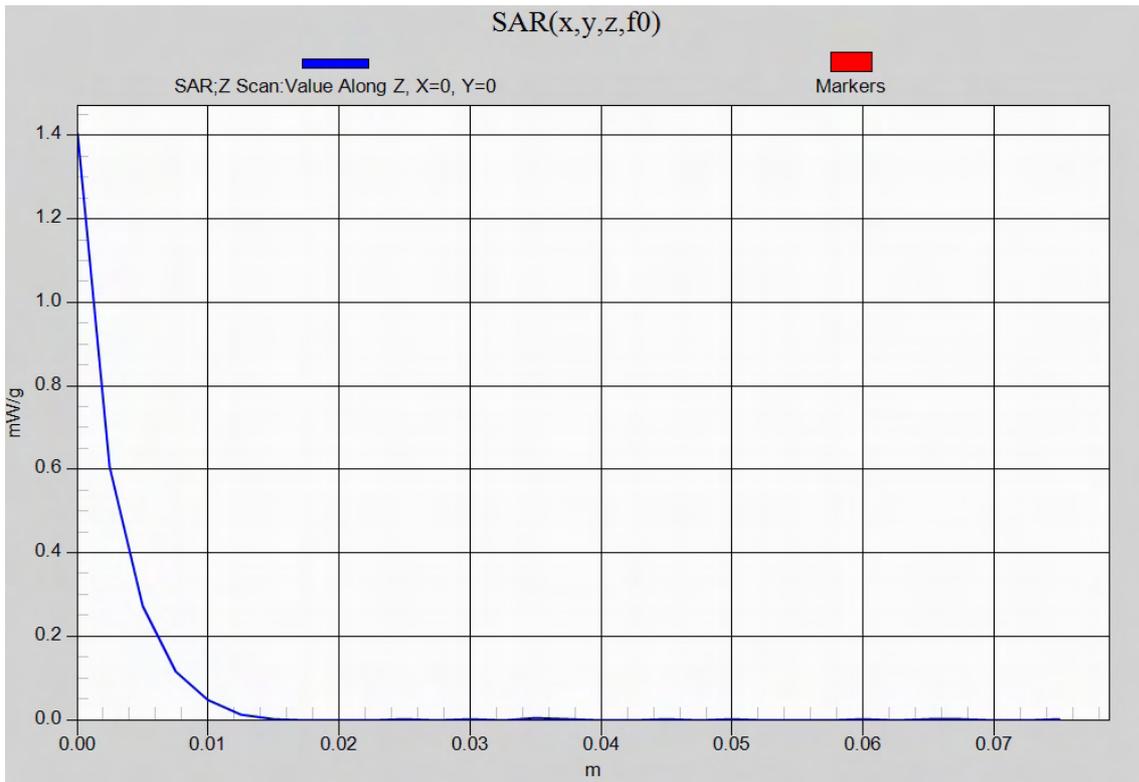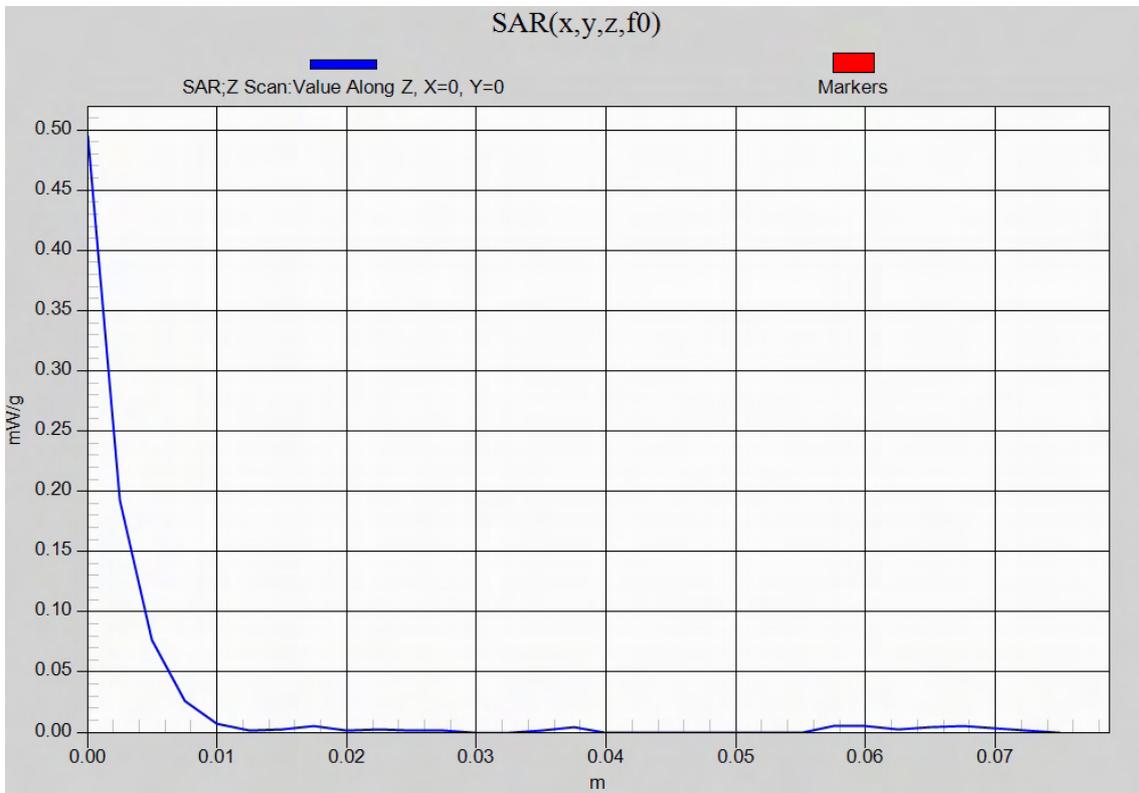1700 body

1900 head

1900 body

2450 head

2450 body

5GHz head

5GHz body

Annex B.23: Liquid depth

Photo 1: Liquid depth 850 MHz head simulating liquid
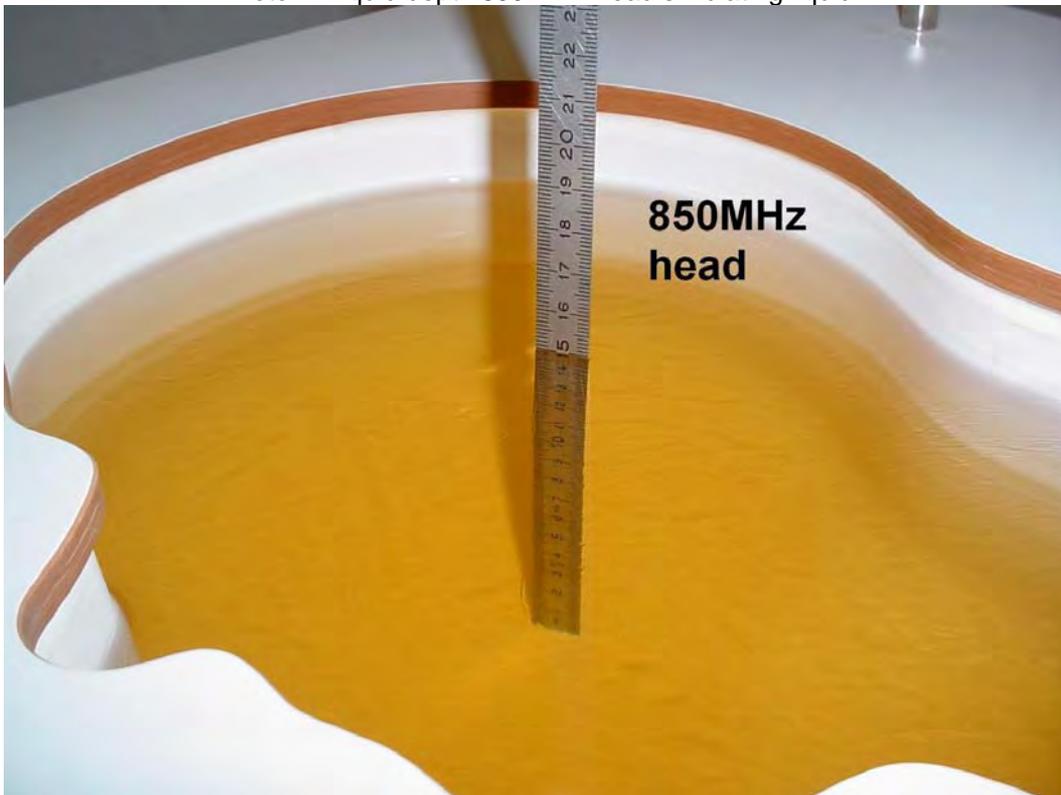

Photo 2: Liquid depth 850 MHz body simulating liquid

Photo 3: Liquid depth 1800MHz head simulating liquid

Photo 4: Liquid depth 1800 MHz body simulating liquid

Photo 5: Liquid depth 1900MHz head simulating liquid
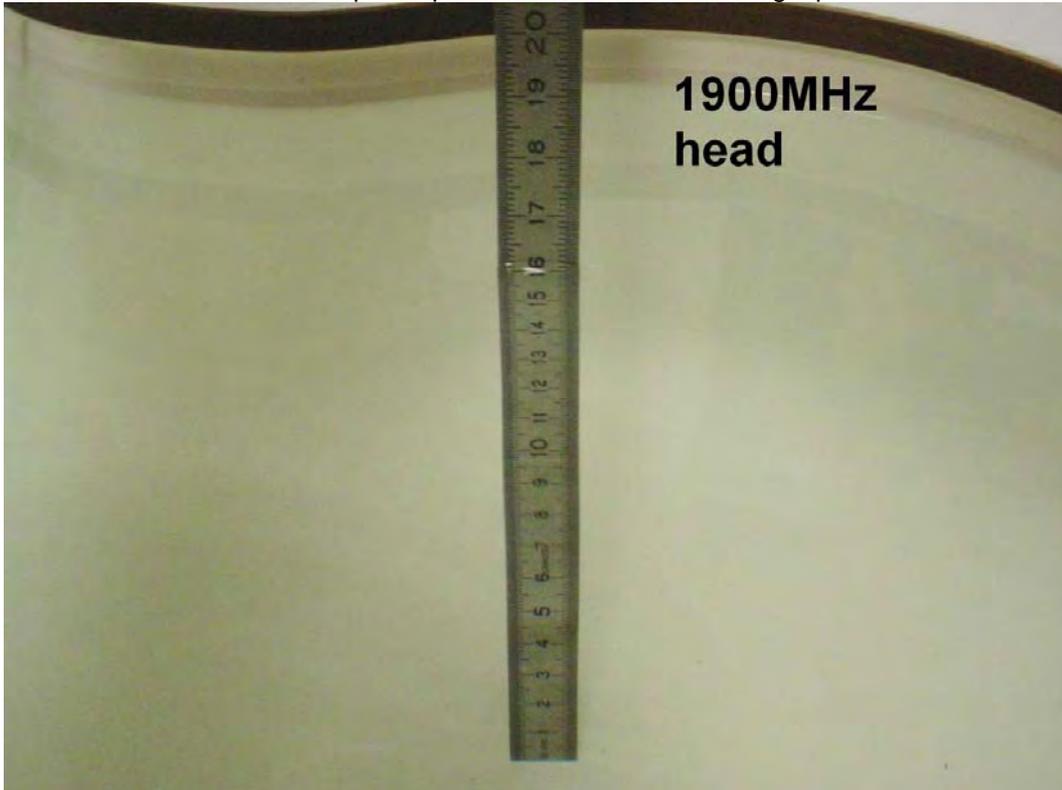

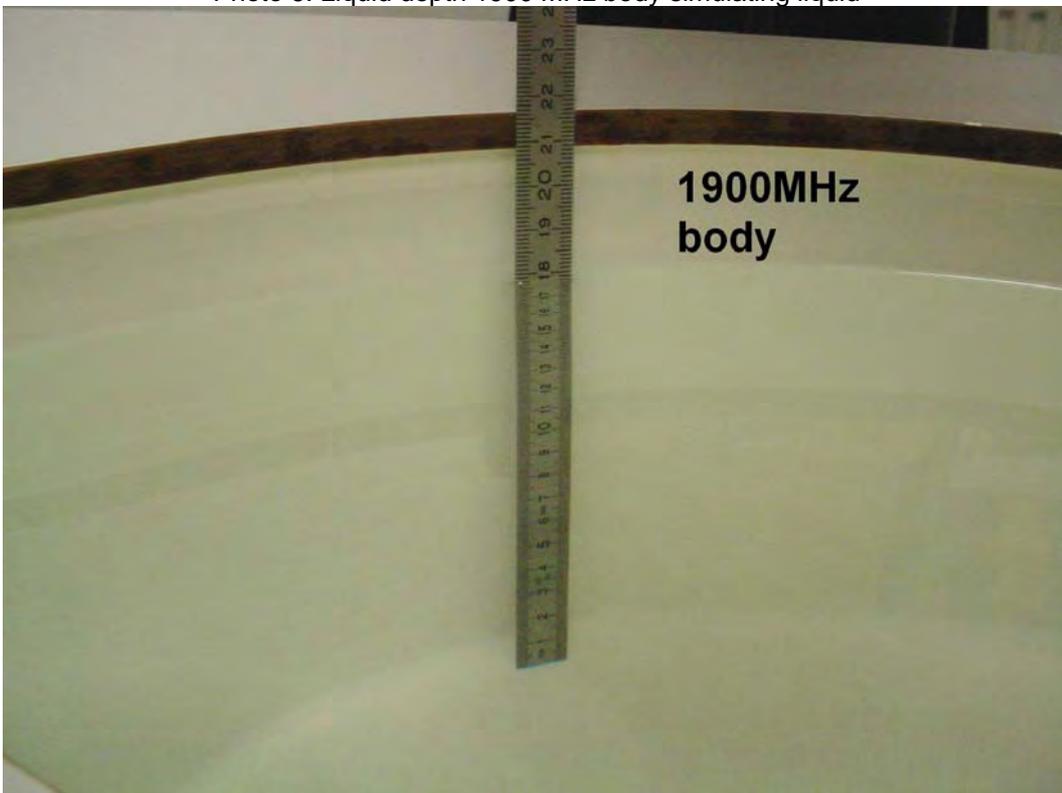Photo 6: Liquid depth 1900 MHz body simulating liquid

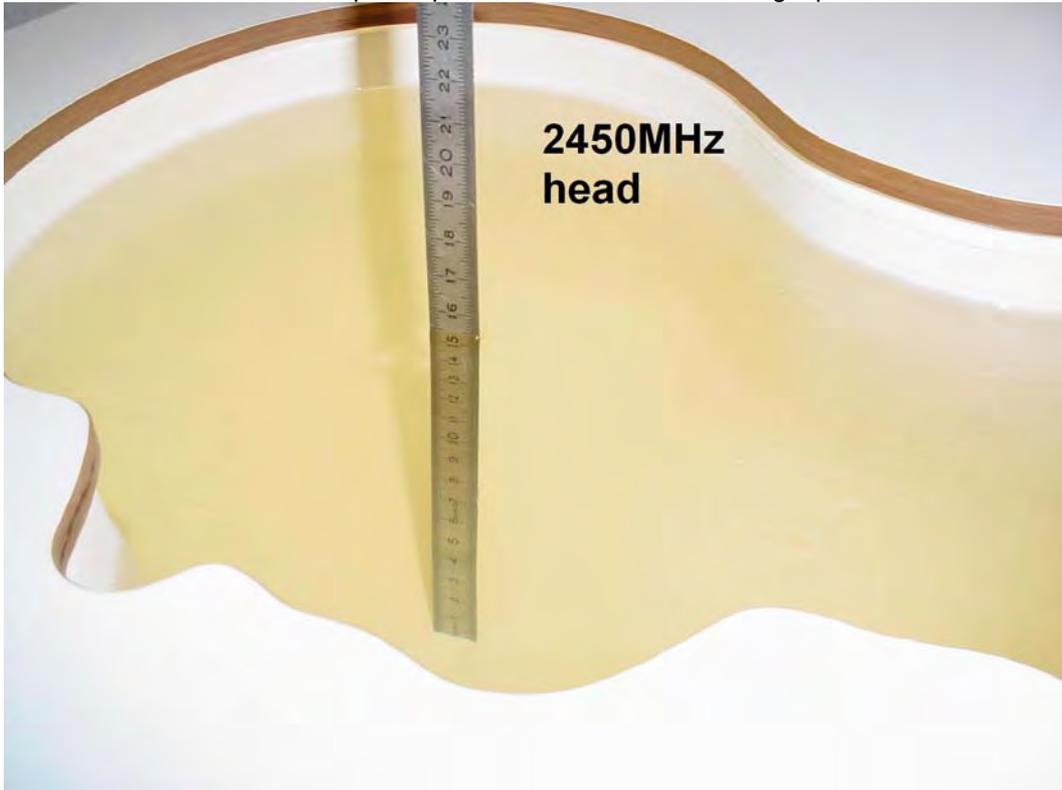Photo 7: Liquid depth 2450MHz head simulating liquid

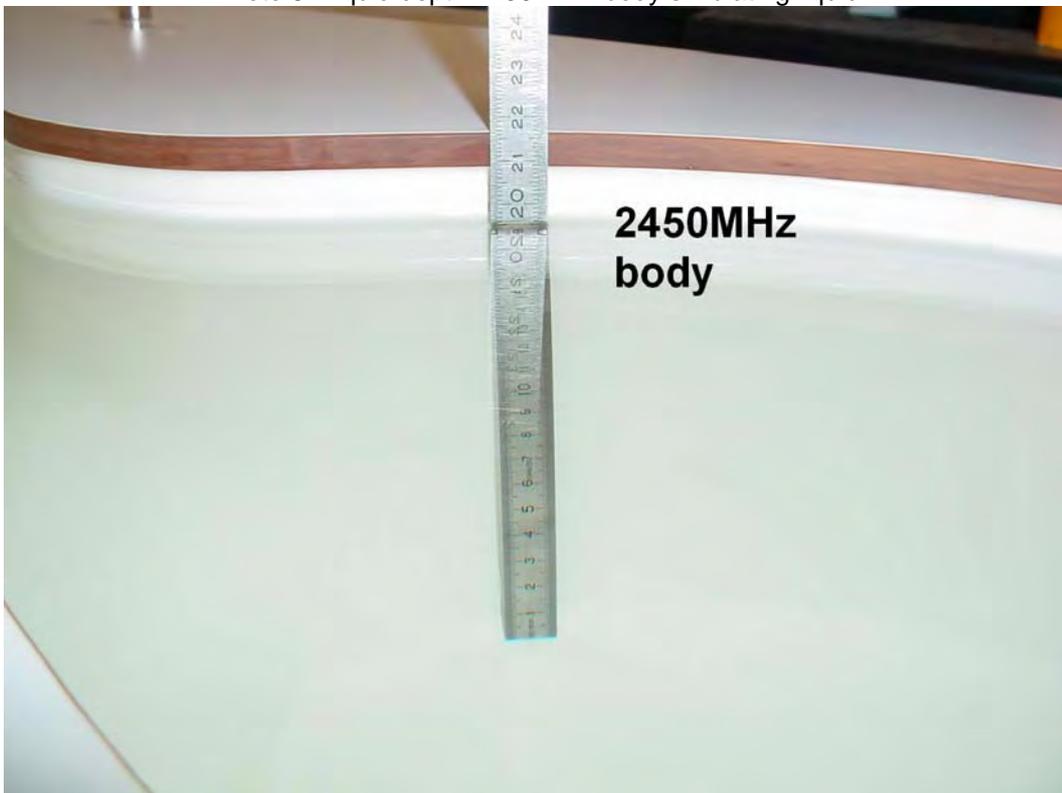Photo 8: Liquid depth 2450 MHz body simulating liquid

Photo 9: Liquid depth 5 GHz head simulating liquid

Photo 10: Liquid depth 5 GHz body simulating liquid

Annex C: Photo documentation

Photo documentation is described in the additional document:

Appendix to test report no. 1-4254/12-18-02-A Photo documentation

Annex D: RF Technical Brief Cover Sheet acc. to RSS-102 Annex A

1. COMPANY NUMBER: **4170B**

2. MODEL NUMBER: **PM0030**

3. MANUFACTURER: **Sony 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: 100 %
● Standard used for evaluation: RSS-102 Issue 4 (2010-03)

● SAR value: **1.070 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: 100 %
● Standard used for evaluation: RSS-102 Issue 4 (2010-03)

● SAR value: **1.120 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: _Thomas Vog_   Date: 2012-08-03

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. 1-4254/12-18-02-A
Calibration data, Phantom certificate
and detail information of the DASY4 System

Annex F: Document History

Version	Applied Changes	Date of Release
	Initial Release	2012-08-03
-A	Complemented the description for body worn measurements	2012-08-08

Annex G: Further Information

Glossary

BW	-	Bandwidth
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
LTE	-	Long Term Evolution
N/A	-	not applicable
OET	-	Office of Engineering and Technology
RB	-	resource block(s)
SAR	-	Specific Absorption Rate
S/N	-	Serial Number
SW	-	Software