SAR TEST REPORT

Eequipment Under Test :	GSM 850&PCS1900MHz MOBILE PHONE
Model No. :	SVLE6
Market name:	OT-E265a
FCC ID:	RAD035
Applicant :	T&A Mobile Phones
Address of Applicant :	3/F,B2 Block, Digital Technology Yard, Gaoxin Nan Qi Road,Nan Shan District, Shenzhen, Guangdong, P.R. China
Date of Receipt :	2006.05.08
Date of Test :	2006.05.25 – 2006.05.30
Date of Issue :	2006.06.23

Standards:

FCC OET Bulletin 65 supplement C,
ANSI/IEEE C95.1, C95.3, IEEE 1528-2003

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS-CSTC Shanghai GSM Lab or testing done by SGS-CSTC Shanghai GSM Lab must approve SGS Shanghai GSM Lab in connection with distribution or use of the product described in this report in writing.

Tested by :	Roger. Ruan	Date :	2006.06.23
Approved by :	Zhiang Yuan	Date :	2006.06.23

Contents

1. General Information

1.1 Test Laboratory

GSM Lab
SGS-CSTC Standards Technical Services Co.Ltd Shanghai Branch
9F,the 3rd Building, No.889, Yishan Rd, Xuhui District, Shanghai, China
Zip code: 200233
Telephone: +86 (0) 21 6495 1616
Fax: +86 (0) 21 6495 3679
Internet: http://www.cn.sgs.com

1.2 Details of Applicant

Name: T&A Mobile Phones
Address: 3/F,B2 Block, Digital Technology Yard,
Gaoxin Nan Qi Road,Nan Shan District,
Shenzhen, Guangdong, P.R. China

1.3 Description of EUT(s)

Brand name	ALCATEL	
Model No.	SVLE6	
Market Name	OT-E265a	
Serial No.	IMEI: 01091000000079-2	
Battery Type	4.2V Lithium-Ion	
Antenna Type	Internal Antenna	
Operation Mode	GSM850/PCS1900	
Modulation Mode	GMSK	
Frequency range	GSM850	Tx: 824~849 MHz
		Rx: 869~894 MHz
	PCS1900	Tx: 1850~1910 MHz
		Rx: 1930~1990 MHz
Maximum RF Conducted Power	GSM850: 33dBm, PCS1900: 30dBm	

1.4 Test Environment

Ambient temperature: 22.0° C

Tissue Simulating Liquid: 22° C

Relative Humidity: 29%

1.5 Operation Configuration

Configuration 1: GSM 850, LeftHandSide Cheek & 15° Tilt Position,off

Configuration 2: GSM 850, RightHandSide Cheek & 15° Tilt Position,off

Configuration 3: GSM 850, BodyWorn (1.5cm between EUT and phantom),off

Configuration 4: GSM 850, LeftHandSide Cheek & 15° Tilt Position,on

Configuration 5: GSM 850, RightHandSide Cheek & 15° Tilt Position,on

Configuration 6: GSM 850, BodyWorn (1.5cm between EUT and phantom),on

Configuration 7: PCS 1900, LeftHandSide Cheek & 15° Tilt Position,off

Configuration 8: PCS 1900, RightHandSide Cheek & 15° Tilt Position,off

Configuration 9: PCS 1900, BodyWorn (1.5cm between EUT and phantom),off

Configuration 10: PCS 1900, LeftHandSide Cheek & 15° Tilt Position,on

Configuration 11: PCS 1900, RightHandSide Cheek & 15° Tilt Position,on

Configuration 12: PCS 1900, BodyWorn (1.5cm between EUT and phantom),on

1.6 The SAR Measurement System

A photograph of the SAR measurement System is given in Fig.a.

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (Speag Dasy 4 professional system). A Model ES3DV3 3088 E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= $\sigma (|Ei|^2)/ \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

The DASY4 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation 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 electronics (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.

- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.

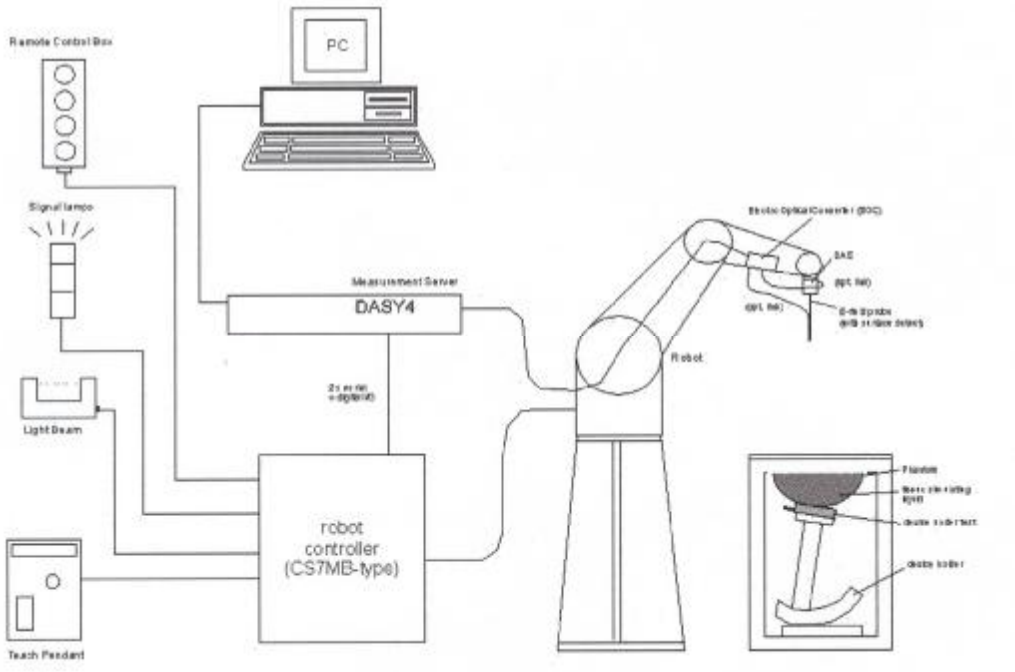


Fig. a SAR System Configuration

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.

- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.

- A computer operating Windows 2000.
- DASY4 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and body-worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing validating the proper functioning of the system.

1.7 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 900MHz and 1900MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was in the range 22°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

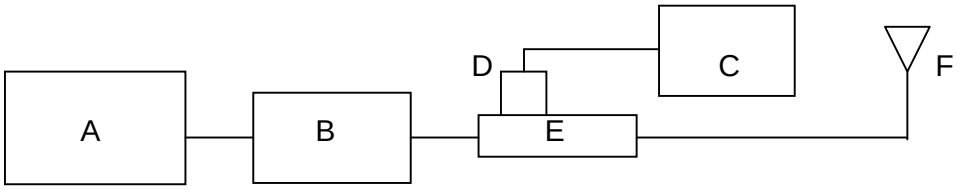


Fig. b the microwave circuit arrangement used for SAR system verification

A. Agilent Model E4438C Signal Generator

B. Mini-Circuit Model ZHL-42 Preamplifier

C. Agilent Model E4416A Power Meter

D. Agilent Model 8481H Power Sensor

E. HT CP6100 20N Dual directional coupler

F. Reference dipole antenna

Validation Kit	Frequency MHz	Target SAR 1g (250mW)	Target SAR 10g (250mW)	Measured SAR 1g	Measured SAR 10g	Measured Date
ES3DV3 SN3088	850 Head	2.6	1.67	2.69	1.68	2006-05-30
ES3DV3 SN3088	850 Body	2.69	1.74	2.77	1.75	2006-05-25
ES3DV3 SN3088	1900 Head	9.89	5.16	9.63	5.05	2006-05-26
ES3DV3 SN3088	1900 Body	9.81	5.22	9.62	5.14	2006-05-29

Table1. Result System Validation

1.8 Tissue Simulant Fluid for the Frequency Band 850MHz and 1900MHZ

The dielectric properties for this body-simulant fluid were measured by using the HP Model 85070D Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Agilent E5071B Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in Table 2.For the SAR measurement given in this report. The temperature variation of the Tissue Simulant Fluid was 22°C.

Frequency (MHz)	Tissue Type	Limit/Measured	Permittivity (ρ)	Conductivity (σ)	Simulated Tissue Temp (°C)
850	**Head**	**Measured, 2006-05-30**	**41.67**	**0.877**	**22.5**
		Recommended Limit	**41.5±5%**	**0.97±5%**	**20-24**
	Body	**Measured, 2006-05-25**	**52.55**	**0.996**	**22.5**

		Recommended Limit	**55.0±5%**	**1.05±5%**	**20-24**
1900	**Head**	**Measured, 2006-05-26**	**39.53**	**1.443**	**22.3**
		Recommended Limit	**40.0±5%**	**1.40±5%**	**20-24**
	Body	**Measured, 2006-05-29**	**51.55**	**1.524**	**22.6**
		Recommended Limit	**53.3±5%**	**1.52±5%**	**20-24**

Table 2. Dielectric parameters for the Frequency Band 850MHz&1900MHZ

1.9 Test Standards and Limits

According to FCC 47 CFR §2.1093(d) the limits to be used for evalutation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specifics absorption rate (SAR) in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3KHz to 300GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical & Electronics Engineers, Inc., New York, New York 10071.

Human Exposure	**Uncontrolled Environment General Population**
Spatial Peak SAR (Brain)	1.60 mW/g (averaged over a mass of 1g)

Table3. RF Exposure Limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.

2. Summary of Results

Result of Fast SAR Scan

Frequency Band(MHz)	EUT position	Conducted Output Power (dBm)	1g Avg. (mW/g)	Power Drift	Amb. Temp (℃)	Verdict
GSM 850 OFF	LeftHandSide Cheek, Low Channel	32.8	0.733	-0.006	22	PASS
	LeftHandSide Cheek, Mid Channel	32.7	0.527	0.011	22	PASS
	LeftHandSide Cheek, High Channel	32.5	0.485	-0.011	22	PASS
	LeftHandSide Tilt, Low Channel	32.8	0.604	0.001	22	PASS
	LeftHandSide Tilt, Mid Channel	32.7	0.419	0.036	22	PASS
	LeftHandSide Tilt, High Channel	32.5	0.390	-0.036	22	PASS
	RightHandSide Cheek, Low Channel	32.8	0.813	-0.097	22	PASS
	RightHandSide Cheek, Mid Channel	32.7	0.571	0.004	22	PASS
	RightHandSide Cheek, High Channel	32.5	0.509	0.018	22	PASS
	RightHandSide Tilt, Low Channel	32.8	0.663	-0.009	22	PASS
	RightHandSide Tilt, Mid Channel	32.7	0.453	0.051	22	PASS
	RightHandSide Tilt, High Channel	32.5	0.408	0.045	22	PASS
	BodyWorn, Low Channel	32.8	0.613	-0.102	22	PASS
	BodyWorn, Mid Channel	32.7	0.536	0.043	22	PASS
	BodyWorn, High Channel	32.5	0.463	0.019	22	PASS
GSM 850 ON	LeftHandSide Cheek, Low Channel	32.8	0.952	-0.138	22	PASS
	LeftHandSide Cheek, Mid Channel	32.7	0.643	-0.081	22	PASS
	LeftHandSide Cheek, High Channel	32.5	0.555	-0.075	22	PASS
	LeftHandSide Tilt, Low Channel	32.8	0.436	-0.028	22	PASS
	LeftHandSide Tilt, Mid Channel	32.7	0.309	-0.001	22	PASS
	LeftHandSide Tilt, High Channel	32.5	0.271	-0.021	22	PASS
	RightHandSide Cheek, Low Channel	32.8	0.947	-0.081	22	PASS

	RightHandSide Cheek, Mid Channel	32.7	0.627	-0.042	**22**	**PASS**
	RightHandSide Cheek, High Channel	32.5	0.546	-0.001	**22**	**PASS**
	RightHandSide Tilt, Low Channel	32.8	0.483	-0.007	**22**	**PASS**
	RightHandSide Tilt, Mid Channel	32.7	0.327	0.027	**22**	**PASS**
	RightHandSide Tilt, High Channel	32.5	0.281	0.016	**22**	**PASS**
	BodyWorn, Low Channel	32.8	0.820	0.063	**22**	**PASS**
	BodyWorn, Mid Channel	32.7	0.685	0.045	**22**	**PASS**
	BodyWorn, High Channel	32.5	0.629	0.041	**22**	**PASS**
GSM 1900 OFF	LeftHandSide Cheek, Low Channel	29.4	0.113	-0.016	**22**	**PASS**
	LeftHandSide Cheek, Mid Channel	29.6	0.069	0.098	**22**	**PASS**
	LeftHandSide Cheek, High Channel	29.4	0.042	0.128	**22**	**PASS**
	LeftHandSide Tilt, Low Channel	29.4	0.166	-0.167	**22**	**PASS**
	LeftHandSide Tilt, Mid Channel	29.6	0.110	-0.064	**22**	**PASS**
	LeftHandSide Tilt, High Channel	29.4	0.070	-0.089	**22**	**PASS**
	RightHandSide Cheek, Low Channel	29.4	0.094	-0.029	**22**	**PASS**
	RightHandSide Cheek, Mid Channel	29.6	0.055	0.037	**22**	**PASS**
	RightHandSide Cheek, High Channel	29.4	0.035	0.138	**22**	**PASS**
	RightHandSide Tilt, Low Channel	29.4	0.159	-0.046	**22**	**PASS**
	RightHandSide Tilt, Mid Channel	29.6	0.105	0.043	**22**	**PASS**
	RightHandSide Tilt, High Channel	29.4	0.067	0.064	**22**	**PASS**
	BodyWorn, Low Channel	29.4	0.510	0.030	**22**	**PASS**
	BodyWorn, Mid Channel	29.6	0.434	-0.023	**22**	**PASS**
	BodyWorn, High Channel	29.4	0.463	0.007	**22**	**PASS**
GSM 1900 ON	LeftHandSide Cheek, Low Channel	29.4	0.089	-0.183	**22**	**PASS**
	LeftHandSide Cheek, Mid Channel	29.6	0.060	0.084	**22**	**PASS**
	LeftHandSide Cheek, High Channel	29.4	0.039	0.082	**22**	**PASS**
	LeftHandSide Tilt, Low Channel	29.4	0.105	-0.001	**22**	**PASS**

	LeftHandSide Tilt, Mid Channel	29.6	0.089	-0.048	**22**	**PASS**
	LeftHandSide Tilt, High Channel	29.4	0.065	0.013	**22**	**PASS**
	RightHandSide Cheek, Low Channel	29.4	0.101	-0.007	**22**	**PASS**
	RightHandSide Cheek, Mid Channel	29.6	0.073	0.114	**22**	**PASS**
	RightHandSide Cheek, High Channel	29.4	0.042	0.072	**22**	**PASS**
	RightHandSide Tilt, Low Channel	29.4	0.091	-0.023	**22**	**PASS**
	RightHandSide Tilt, Mid Channel	29.6	0.079	0.017	**22**	**PASS**
	RightHandSide Tilt, High Channel	29.4	0.053	0.045	**22**	**PASS**
	BodyWorn, Low Channel	29.4	0.670	-0.018	**22**	**PASS**
	BodyWorn, Mid Channel	29.6	0.562	-0.015	**22**	**PASS**
	BodyWorn, High Channel	29.4	0.351	0.022	**22**	**PASS**

Maximum Values of 1g SAR

Frequency Band(MHz)	**EUT position**	**Conducted Output Power (dBm)**	**1g Average (W/Kg)**	**Power Drift (dB)**	**Amb. Temp (℃)**	**Verdict**
850 OFF	LeftHandSide Cheek,Low Channel	32.8	0.716	-0.015	**22**	**PASS**
	RightHandSide Cheek,Low Channel	32.8	0.773	-0.023	**22**	**PASS**
	BodyWorn, Low Channel	32.8	0.601	-0.009	**22**	**PASS**
850 ON	LeftHandSide Cheek,Low Channel	32.8	0.905	0.028	**22**	**PASS**
	RightHandSide Cheek,Low Channel	32.8	0.942	-0.039	**22**	**PASS**
	BodyWorn, Low Channel	32.8	0.926	0.011	**22**	**PASS**
1900 OFF	LeftHandSide Tilt, Low Channel	29.4	0.178	0.045	**22**	**PASS**
	RightHandSide Tilt,Low Channel	29.4	0.163	-0.017	**22**	**PASS**
	BodyWorn, Low Channel	29.4	0.493	0.025	**22**	**PASS**
1900 ON	LeftHandSide Tilt, Low Channel	29.4	0.160	0.006	**22**	**PASS**
	RightHandSide Cheek,Low Channel	29.4	0.098	0.037	**22**	**PASS**
	BodyWorn, Low Channel	29.4	0.797	-0.044	**22**	**PASS**

Note:

1. In GSM850 band, the low, middle and high channels are CH128/824.2MHz, CH189/836.4MHz and CH251/848.8MHz separately.

2. In PCS1900 band, the low, middle and high channels are CH512/1805.2MHz, CH661/1880.0MHz and CH810/1909.8MHz separately.

3. For the Bodyworn measurements the sample was only placed with the antenna toward the phantom since this position delivers the highest SAR values.

4. For the Bodyworn measurements, the distance from the sample to the phantom is 1.5 cm.

5. The testing performed with Slide On and Slide Off mode.

3. Instruments List

Instrument	Model	Serial number	NO.	Date of last Calibration
Desktop PC	COMPAQ EVO	N/A	GSM-SAR-025	N/A
Dasy 4 software	V 4.6 build 23	N/A	GSM-SAR-001	N/A
Probe	ES3DV3	3088	GSM-SAR-034	2005.09.13
DAE	DAE3	569	GSM-SAR-023	2005.11.17
Phantom	SAM 12	TP-1283	GSM-SAR-005	N/A
Robot	RX90L	F03/5V32A1/A01	GSM-SAR-008	N/A
900MHz system validation dipole	D900V2	184	GSM-SAR-013	2005.8.22
1900MHz system validation dipole	D1900V2	5d028	GSM-SAR-020	2005.8.25
Dielectric probe kit	85070D	US01440168	GSM-SAR-016	2005.12.19
Agilent network analyzer	E5071B	MY42100549	GSM-SAR-007	2005.12.19
Agilent signal generator	E4438	14438CATO-19719	GSM-SAR-008	2005.12.19
Mini-Circuits preamplifier	ZHL-42	D041905	GSM-SAR-033	2006.05.15
Agilent power meter	E4416A	GB41292095	GSM-SAR-010	2005.12.19
Agilent power sensor	8481H	MY41091234	GSM-SAR-011	2005.12.19
HT CP6100 20N Coupling	6100	SCP301480120	GSM-SAR-012	2005.12.19
R&S Universal radio communication tester	CMU200	103633	GSM-AUD-002	2005.12.20

4. Measurements

4.1 LeftHandSide-Cheek-GSM850-Low-off

Date/Time: 2006-5-30 18:46:38

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-Low-off

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz; Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 29.9 V/m; Power Drift = -0.006 dB
Motorola Fast SAR: SAR(1 g) = 0.733 mW/g; SAR(10 g) = 0.523 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.774 mW/g

0 dB = 0.774mW/g

4.2 LeftHandSide-Cheek-GSM850-Middle-off

Date/Time: 2006-5-30 18:57:45

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-Mid-off

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.878 mho/m; ε_r = 41.7; ρ = 1000 kg/m^3

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

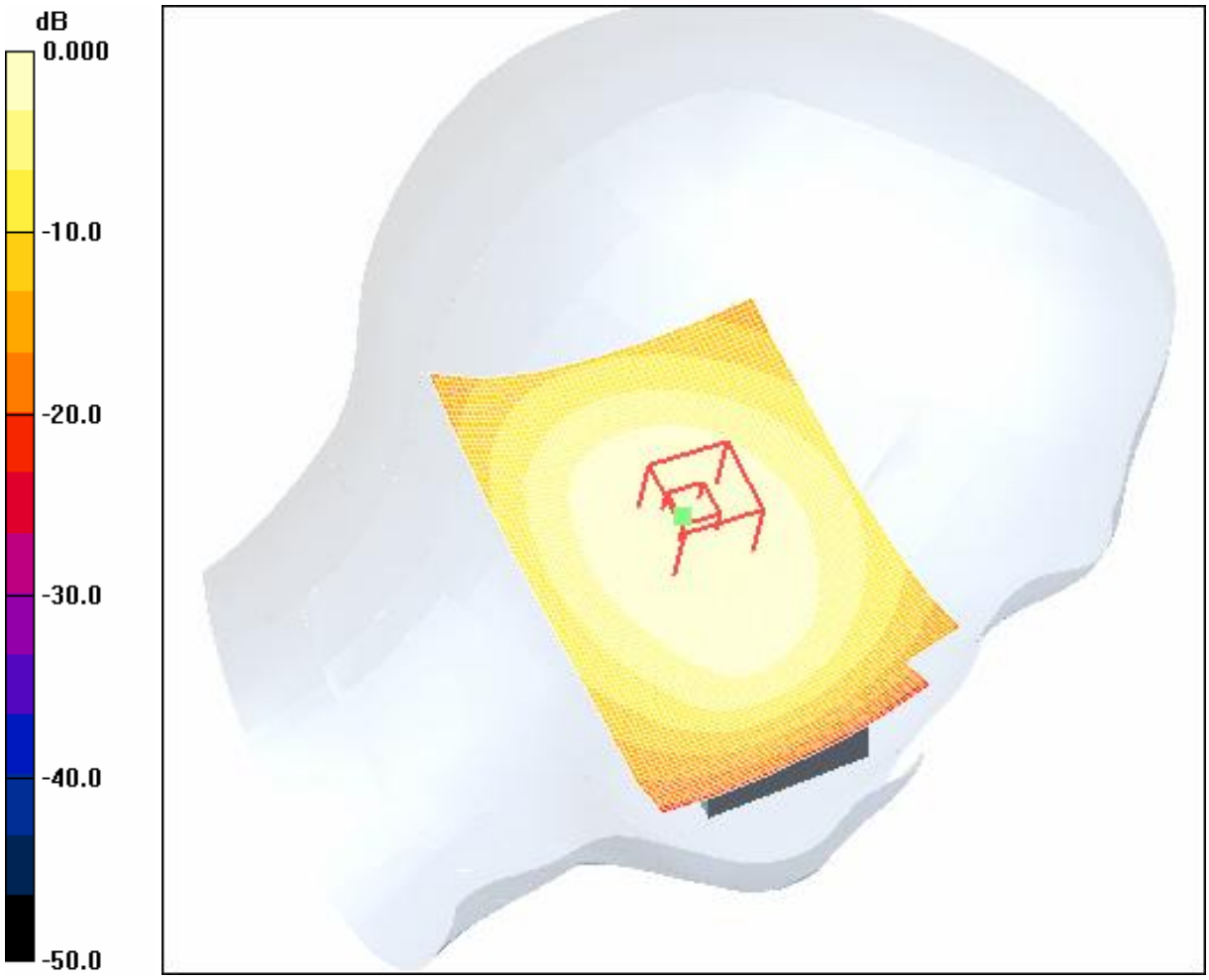
Cheek Position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 25.1 V/m; Power Drift = 0.011 dB

Motorola Fast SAR: SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.375 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

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



0 dB = 0.558mW/g

4.3 LeftHandSide-Cheek-GSM850-High-off

Date/Time: 2006-5-30 19:10:46

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-High-off

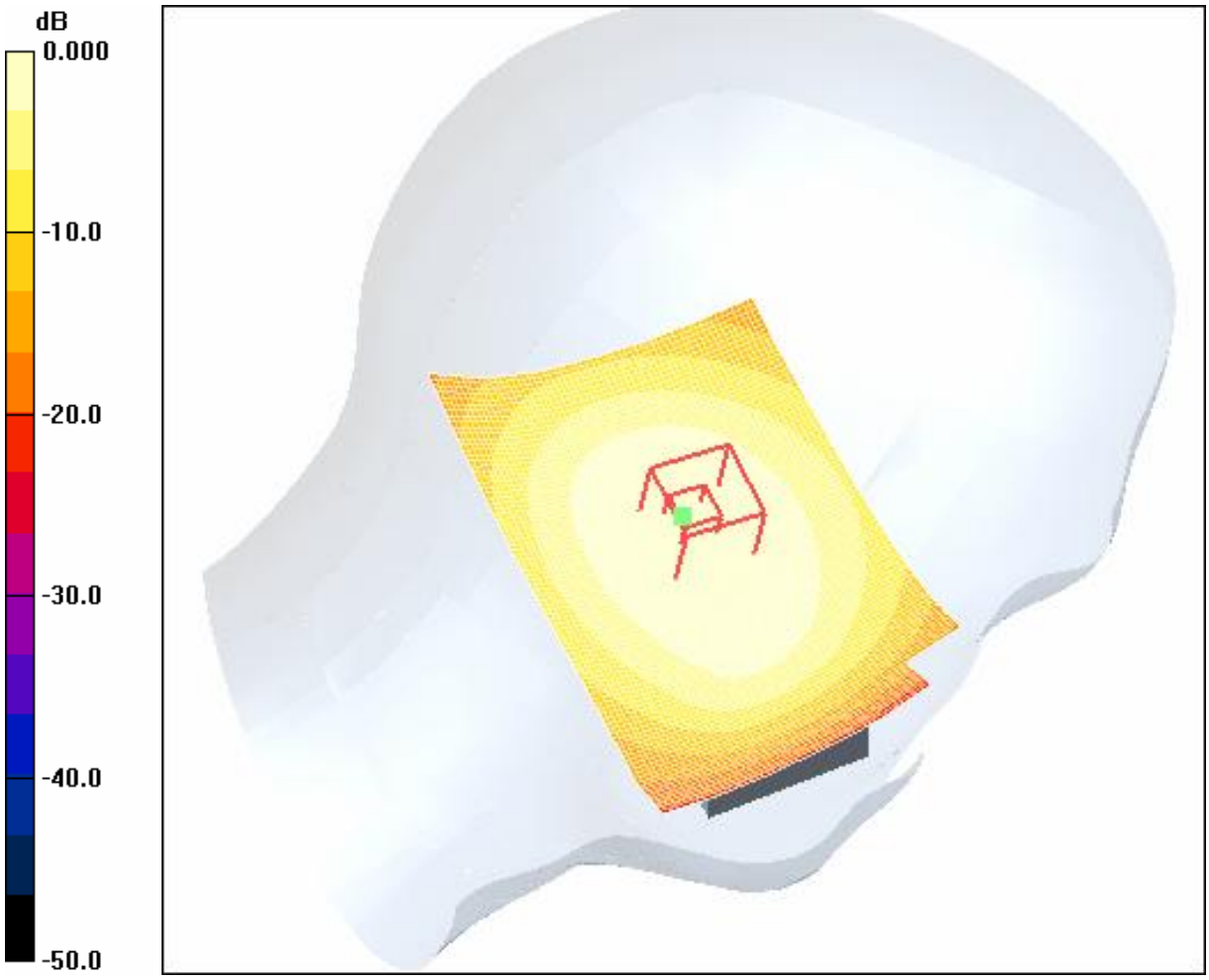
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used: f = 849 MHz; σ = 0.89 mho/m; ε_r = 41.6; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 24.0 V/m; Power Drift = -0.011 dB
Motorola Fast SAR: SAR(1 g) = 0.485 mW/g; SAR(10 g) = 0.345 mW/g
Maximum value of SAR (interpolated) = 0.512 mW/g



0 dB = 0.512mW/g

4.4 LeftHandSide-Tilt-GSM850-Low-off

Date/Time: 2006-5-30 19:22:11

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Tilt-Low-off

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

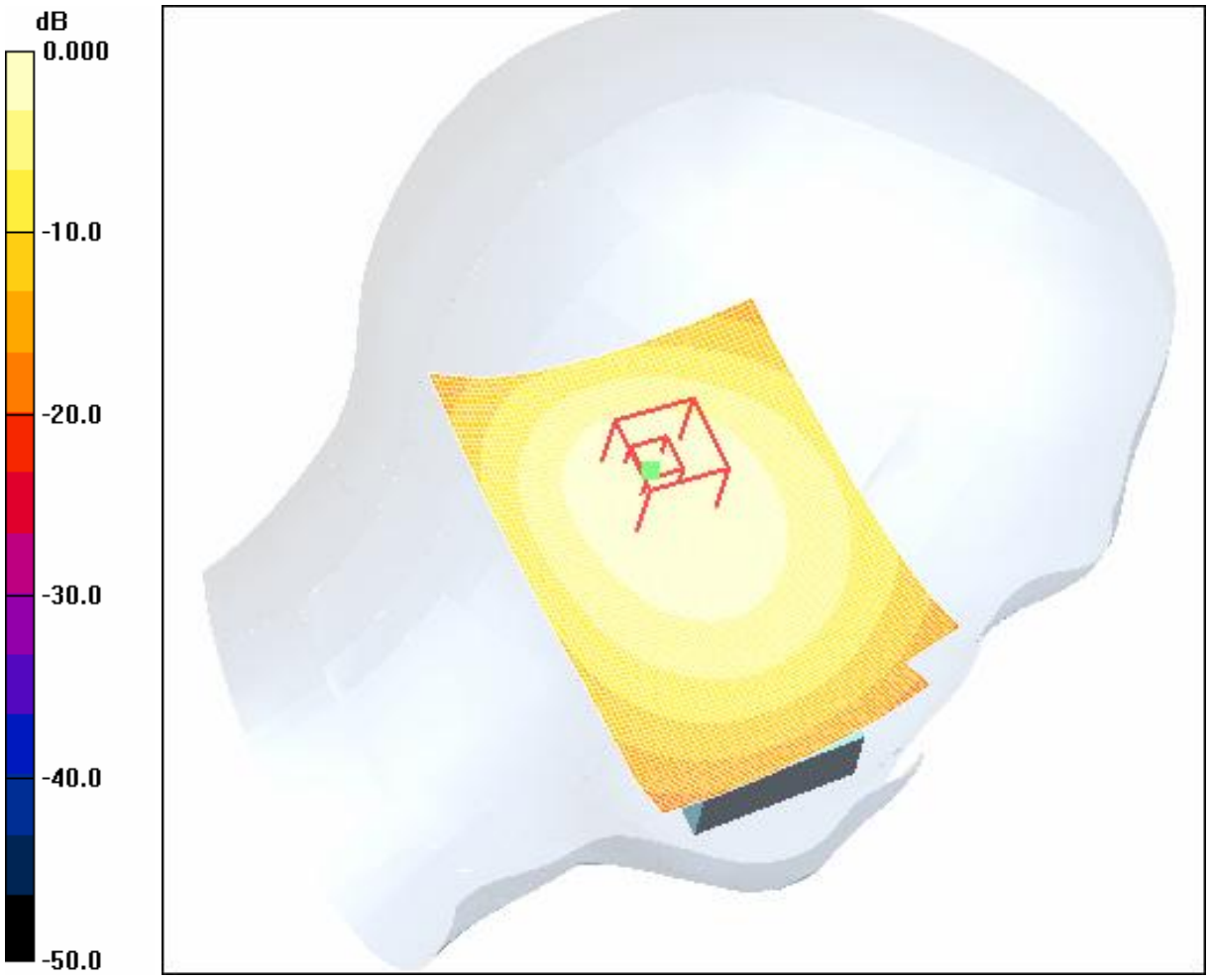
Tilt Position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 26.0 V/m; Power Drift = 0.001 dB

Motorola Fast SAR: SAR(1 g) = 0.604 mW/g; SAR(10 g) = 0.410 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.666 mW/g



0 dB = 0.666mW/g

4.5 LeftHandSide-Tilt-GSM850-Middle-off

Date/Time: 2006-5-30 19:34:10

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Tilt-Mid-off

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.878 mho/m; ε_r = 41.7; ρ = 1000 kg/m^3

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

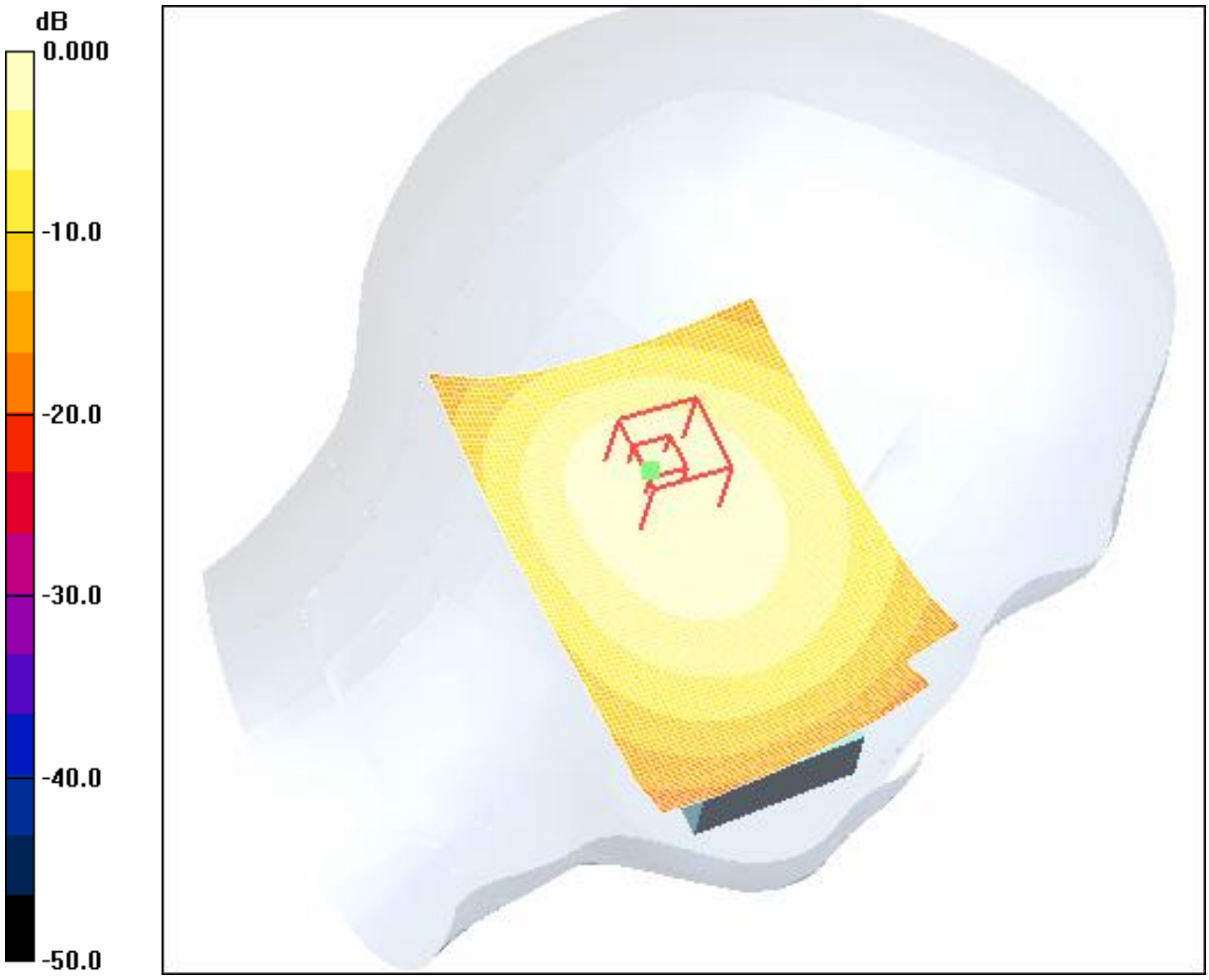
Tilt Position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.5 V/m; Power Drift = 0.036 dB

Motorola Fast SAR: SAR(1 g) = 0.419 mW/g; SAR(10 g) = 0.284 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.462 mW/g



0 dB = 0.462mW/g

4.6 LeftHandSide-Tilt-GSM850-High-off

Date/Time: 2006-5-30 19:43:26

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Tilt-High-off

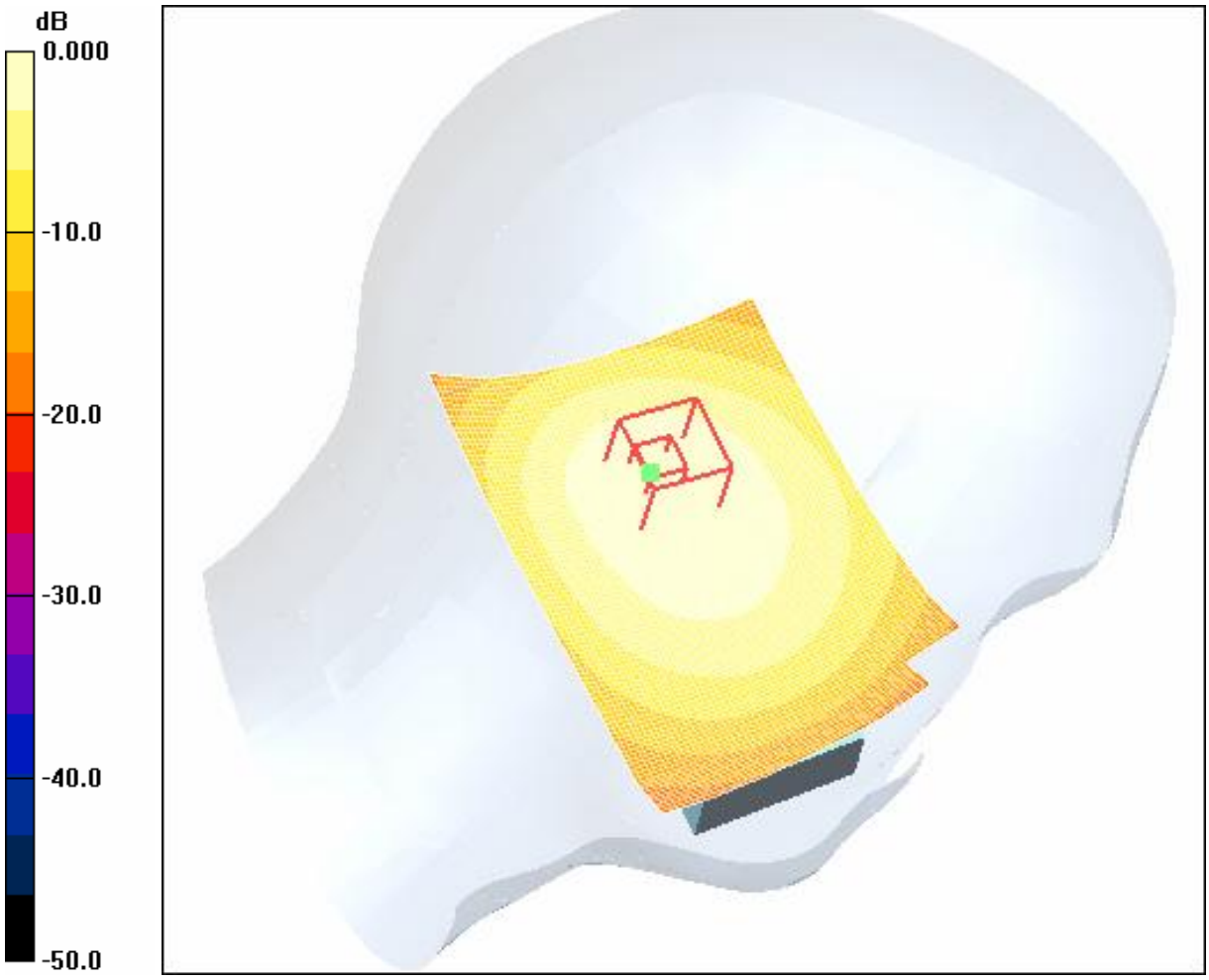
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used: f = 849 MHz; σ = 0.89 mho/m; ε_r = 41.6; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt Position - High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 20.7 V/m; Power Drift = -0.036 dB
Motorola Fast SAR: SAR(1 g) = 0.390 mW/g; SAR(10 g) = 0.265 mW/g
Maximum value of SAR (interpolated) = 0.430 mW/g



0 dB = 0.430mW/g

LeftHandSide-Cheek-GSM850-Low-off (Maximum Value)

Date/Time: 2006-5-30 19:57:17

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-Low-off(conventional)

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

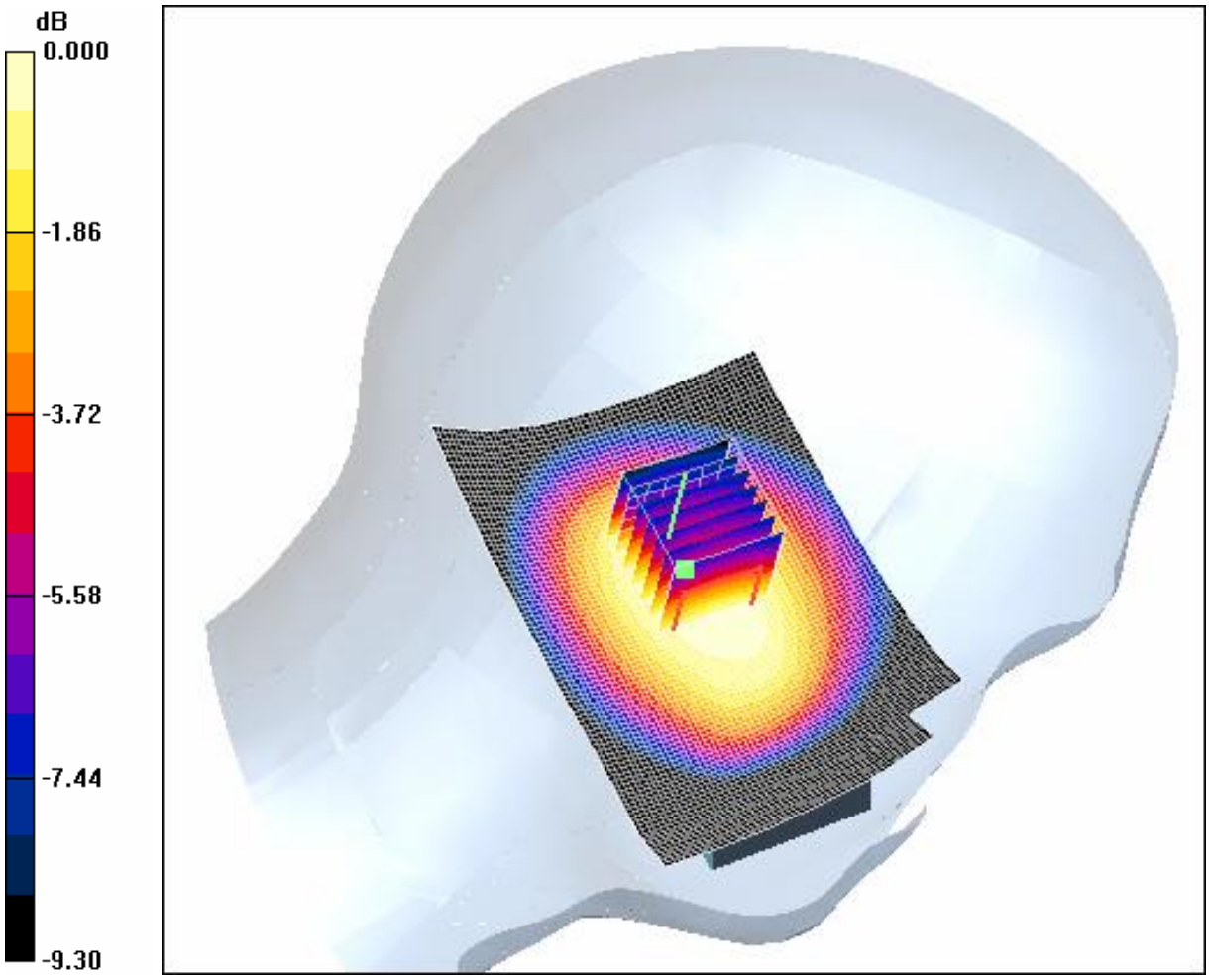
- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Traditional Method/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.768 mW/g

Maximum Position - Traditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 29.8 V/m; Power Drift = -0.015 dB
Peak SAR (extrapolated) = 0.966 W/kg
SAR(1 g) = 0.716 mW/g; SAR(10 g) = 0.537 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.764 mW/g



0 dB = 0.764mW/g

4.7 RightHandSide-Cheek-GSM850-Low-off

Date/Time: 2006-5-30 22:24:29

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-Low-off

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

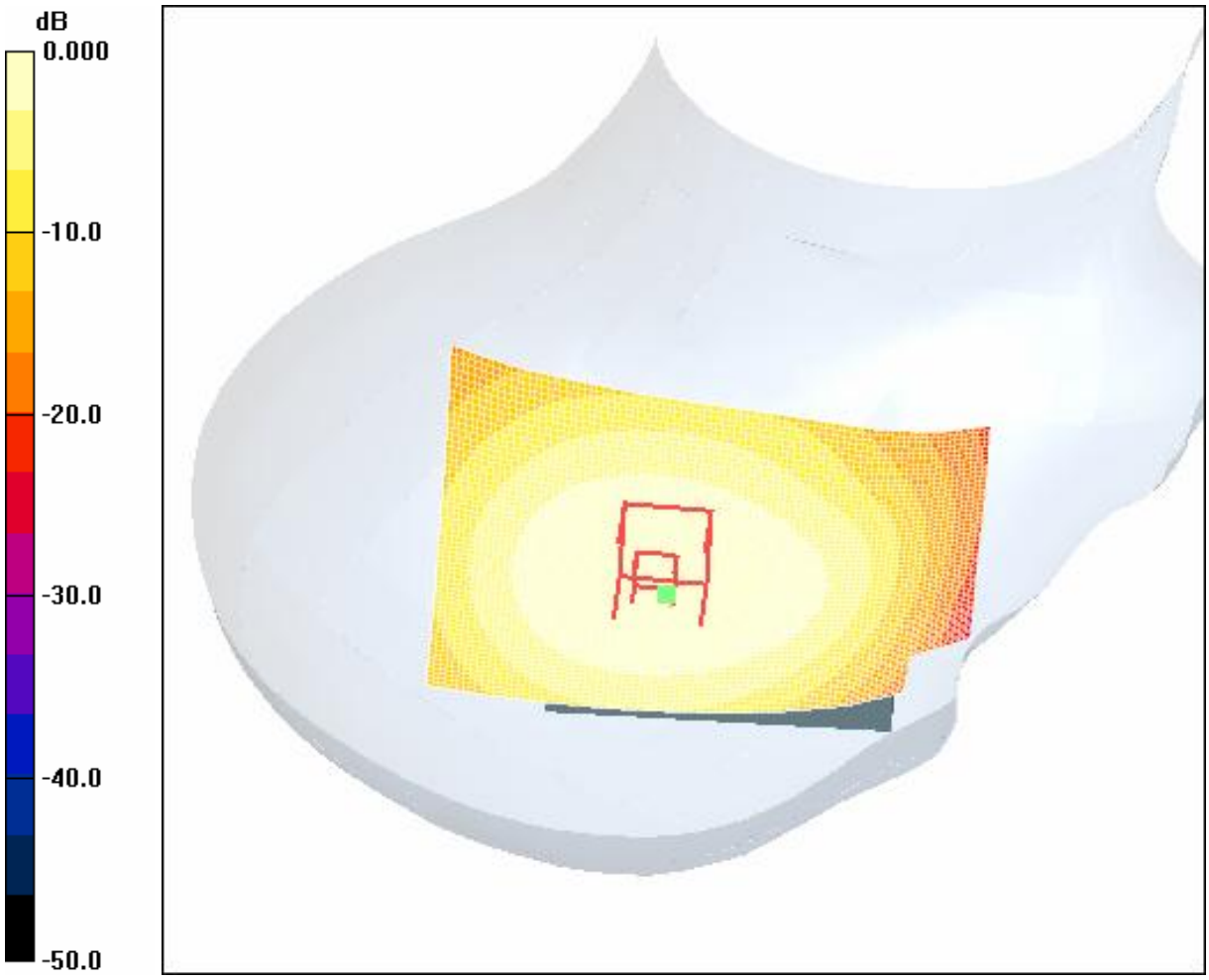
Cheek Position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 31.4 V/m; Power Drift = -0.097 dB

Motorola Fast SAR: SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.581 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.856 mW/g



0 dB = 0.856mW/g

4.8 RightHandSide-Cheek-GSM850-Middle-off

Date/Time: 2006-5-30 22:34:52

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-Mid-off

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.878 mho/m; ε_r = 41.7; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

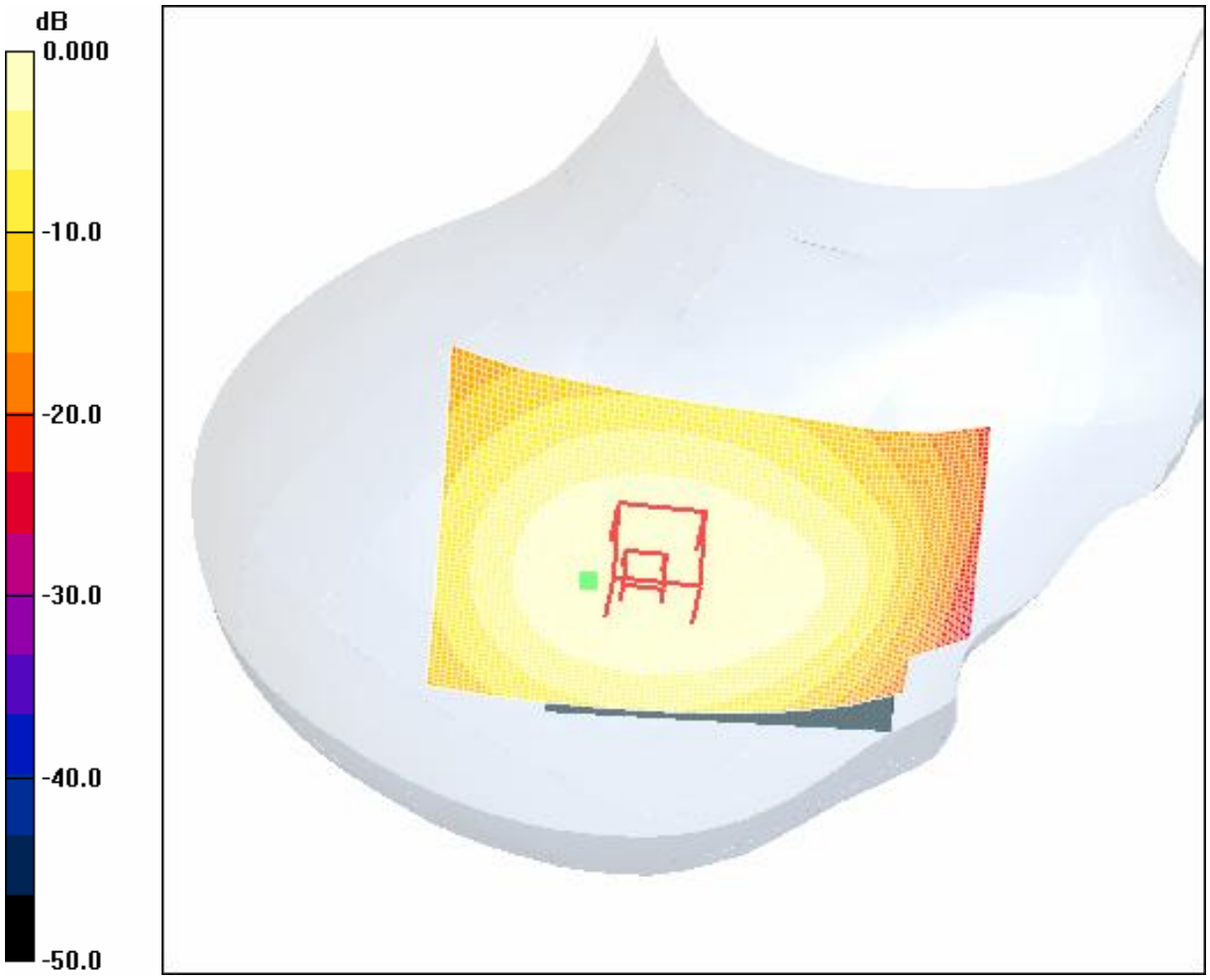
Cheek Position - Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 26.0 V/m; Power Drift = 0.004 dB

Motorola Fast SAR: SAR(1 g) = 0.571 mW/g; SAR(10 g) = 0.407 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.602 mW/g



0 dB = 0.602mW/g

4.9 RightHandSide-Cheek-GSM850-High-off

Date/Time: 2006-5-30 22:44:05

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-High-off

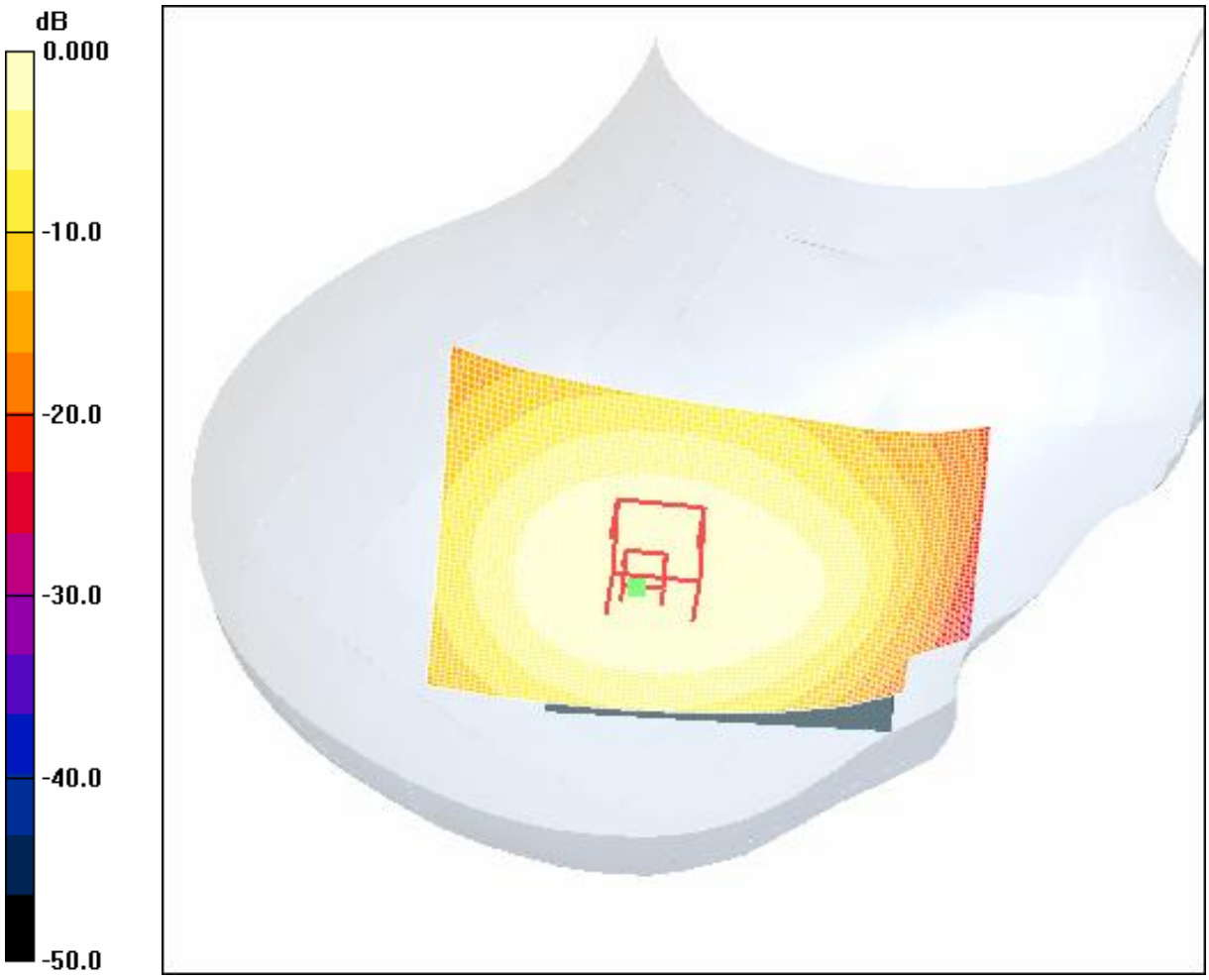
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used: f = 849 MHz; σ = 0.89 mho/m; ε_r = 41.6; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 24.4 V/m; Power Drift = 0.018 dB
Motorola Fast SAR: SAR(1 g) = 0.509 mW/g; SAR(10 g) = 0.362 mW/g
Maximum value of SAR (interpolated) = 0.536 mW/g



0 dB = 0.536mW/g

4.10 RightHandSide-Tilt-GSM850-Low-off

Date/Time: 2006-5-30 22:55:33

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Tilt-Low-off

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

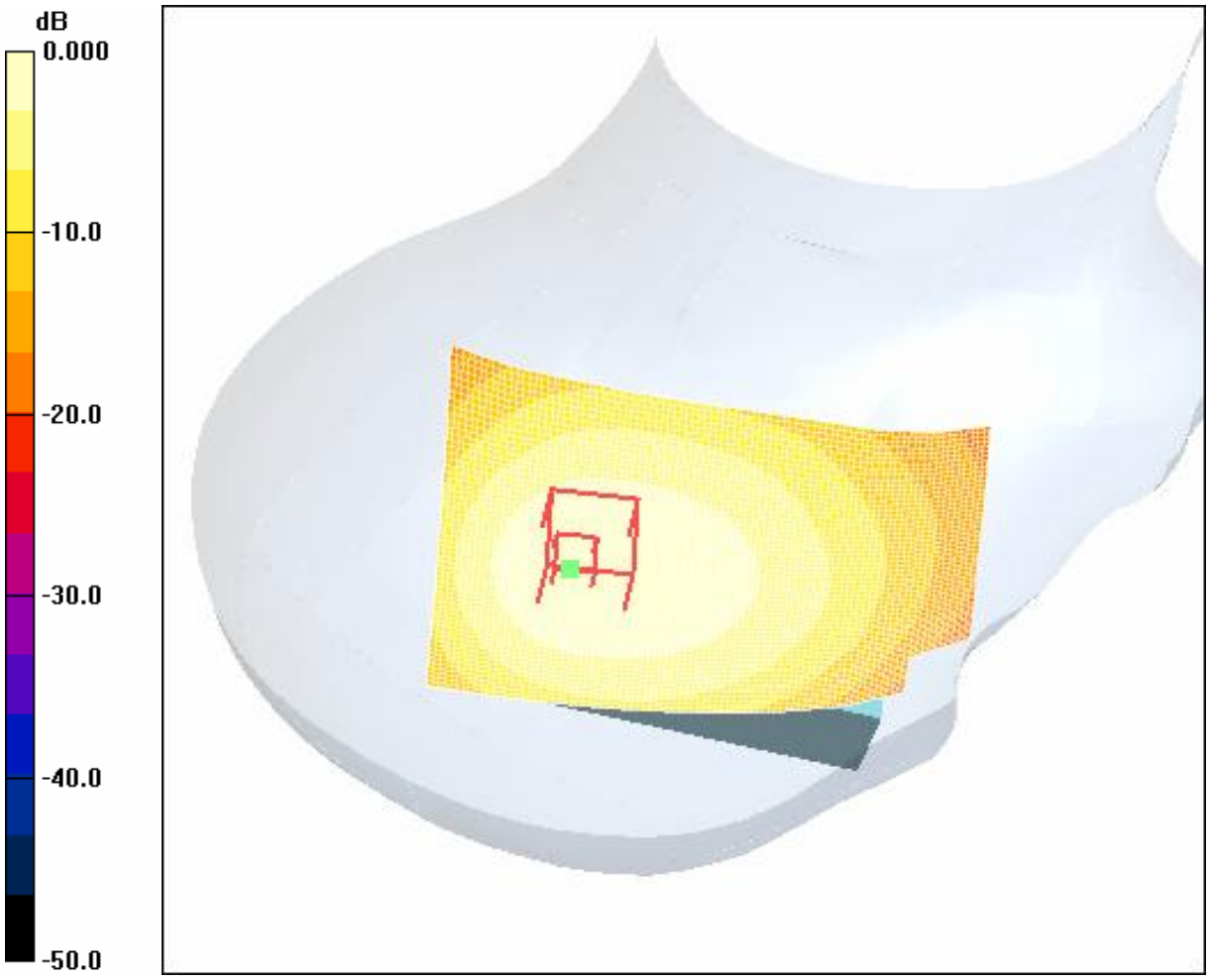
Tilt position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 26.8 V/m; Power Drift = -0.009 dB

Motorola Fast SAR: SAR(1 g) = 0.663 mW/g; SAR(10 g) = 0.448 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.723 mW/g



0 dB = 0.723mW/g

4.11 RightHandSide-Tilt-GSM850-Middle-off

Date/Time: 2006-5-30 23:06:44

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Tilt-Mid-off

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.878 mho/m; ε_r = 41.7; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

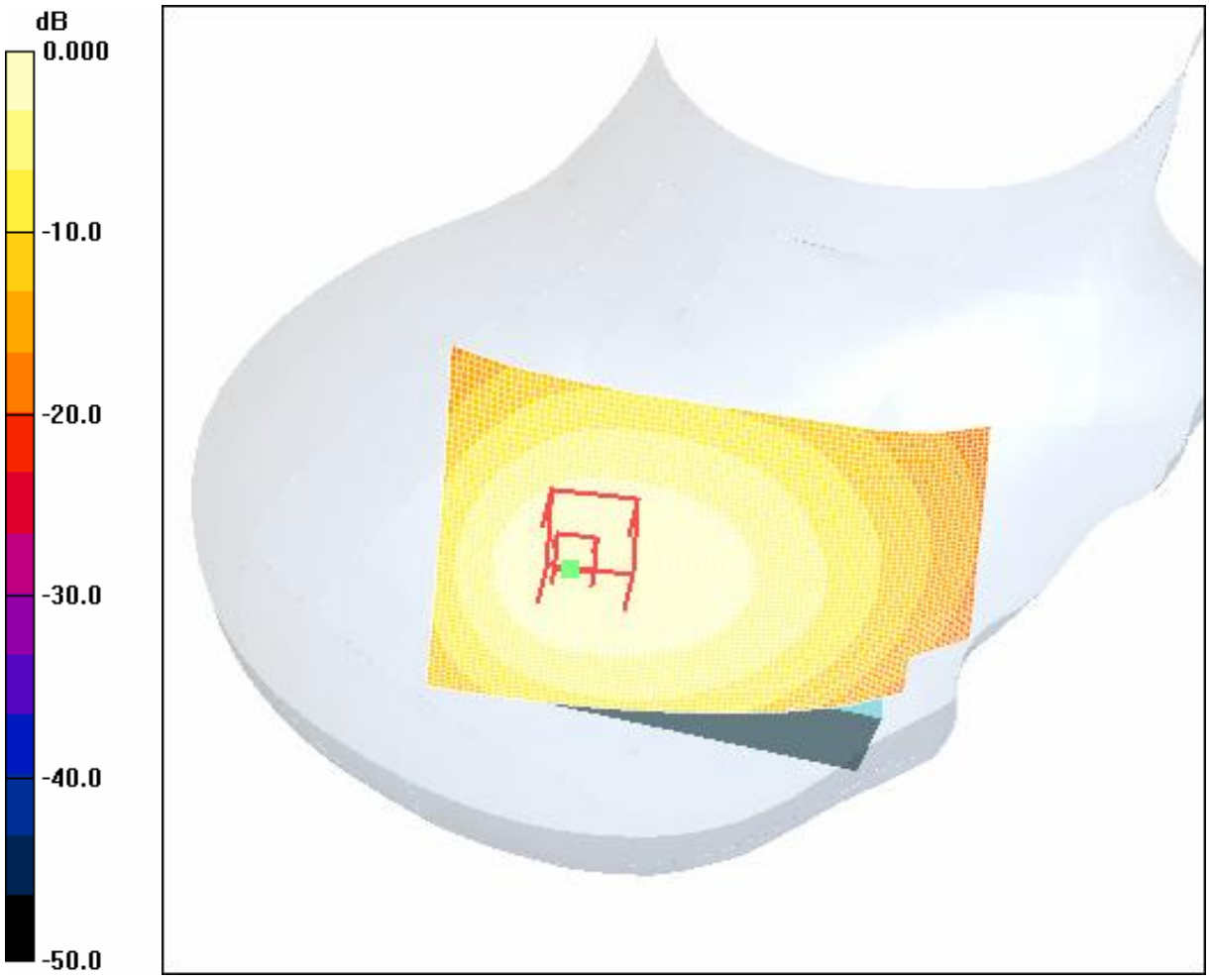
Tilt position -Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.8 V/m; Power Drift = 0.051 dB

Motorola Fast SAR: SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.305 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.495 mW/g



0 dB = 0.495mW/g

5.12 RightHandSide-Tilt-GSM850-High-off

Date/Time: 2006-5-30 23:16:46

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Tilt-High-off

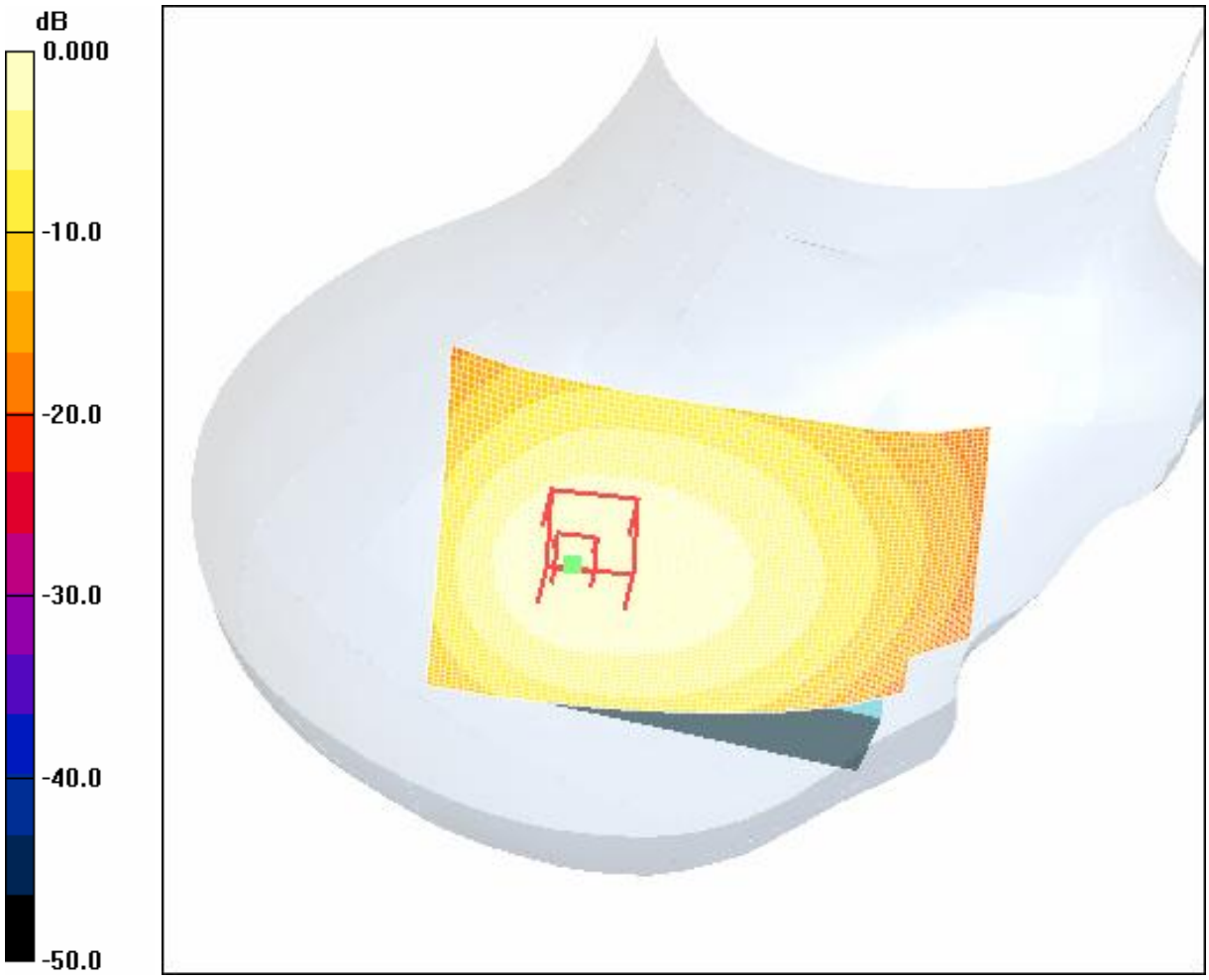
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used: f = 849 MHz; σ = 0.89 mho/m; ε_r = 41.6; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position - High/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 20.7 V/m; Power Drift = 0.045 dB
Motorola Fast SAR: SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.275 mW/g
Maximum value of SAR (interpolated) = 0.446 mW/g



0 dB = 0.446mW/g

RightHandSide-Cheek-GSM850-Low-off (Maximum Value)

Date/Time: 2006-5-30 23:32:34

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-Low-off(conventional)

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

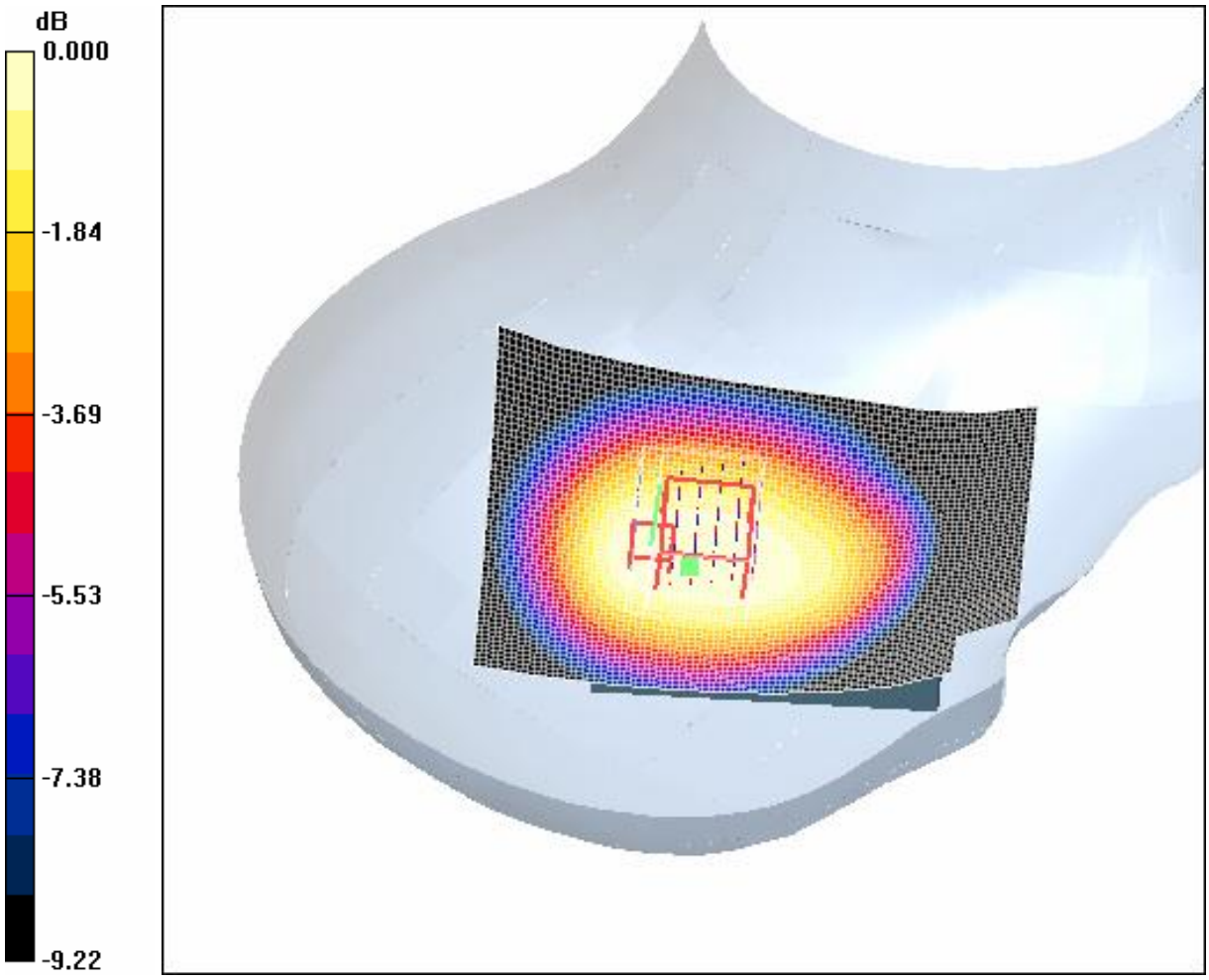
- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Traditional Method/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.821 mW/g

Maximum Position - Traditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 30.8 V/m; Power Drift = -0.023 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.773 mW/g; SAR(10 g) = 0.582 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.819 mW/g



0 dB = 0.819mW/g

4.13 Body-Worn-GSM850-Low-off

Date/Time: 2006-5-25 15:21:20

Test Laboratory: SGS-GSM

GSM850-Body-Worn-Low-off

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium: HSL850-Body Medium parameters used: f = 824.2 MHz; σ = 0.984 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

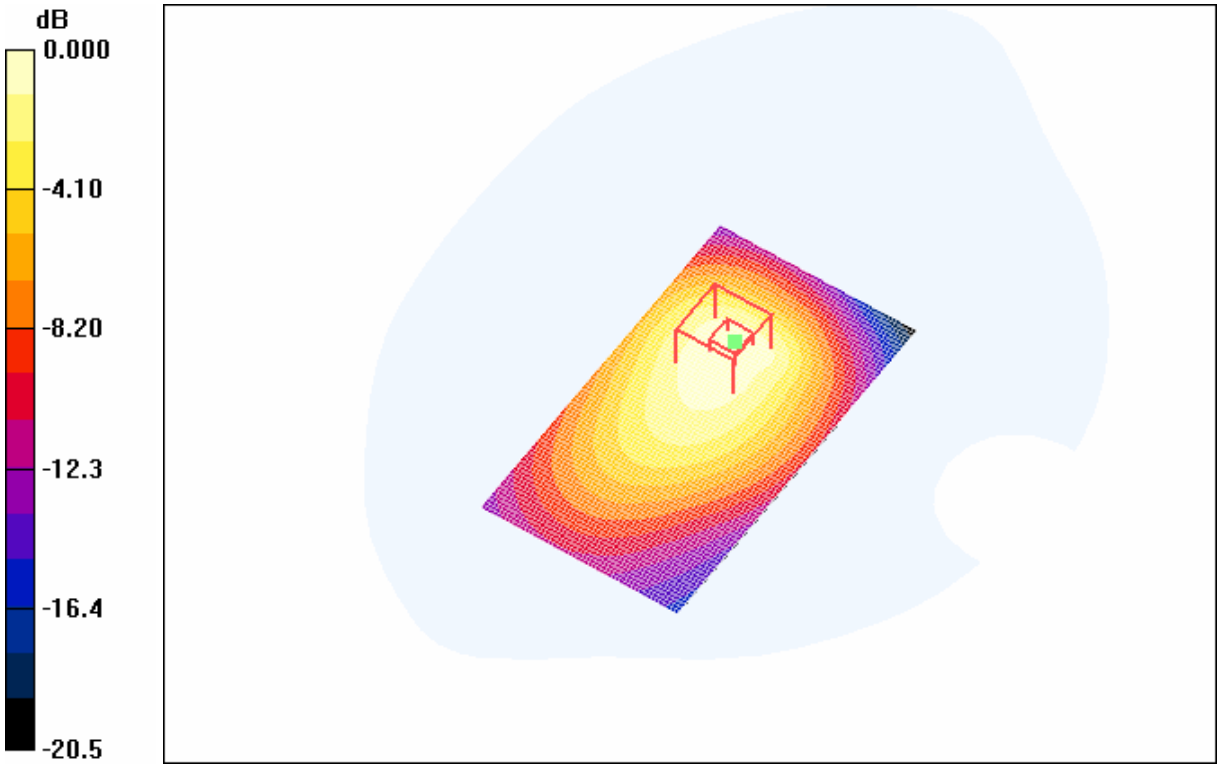
- Probe: ES3DV3 - SN3088; ConvF(5.83, 5.83, 5.83); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

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

Reference Value = 25.8 V/m; Power Drift = -0.102 dB

Motorola Fast SAR: SAR(1 g) = 0.613 mW/g; SAR(10 g) = 0.422 mW/g

Maximum value of SAR (interpolated) = 0.676 mW/g



0 dB = 0.676mW/g

4.14 Body-Worn-GSM850-Middle-off

Date/Time: 2006-5-25 15:28:59

Test Laboratory: SGS-GSM

GSM850-Body-Worn-Mid-off

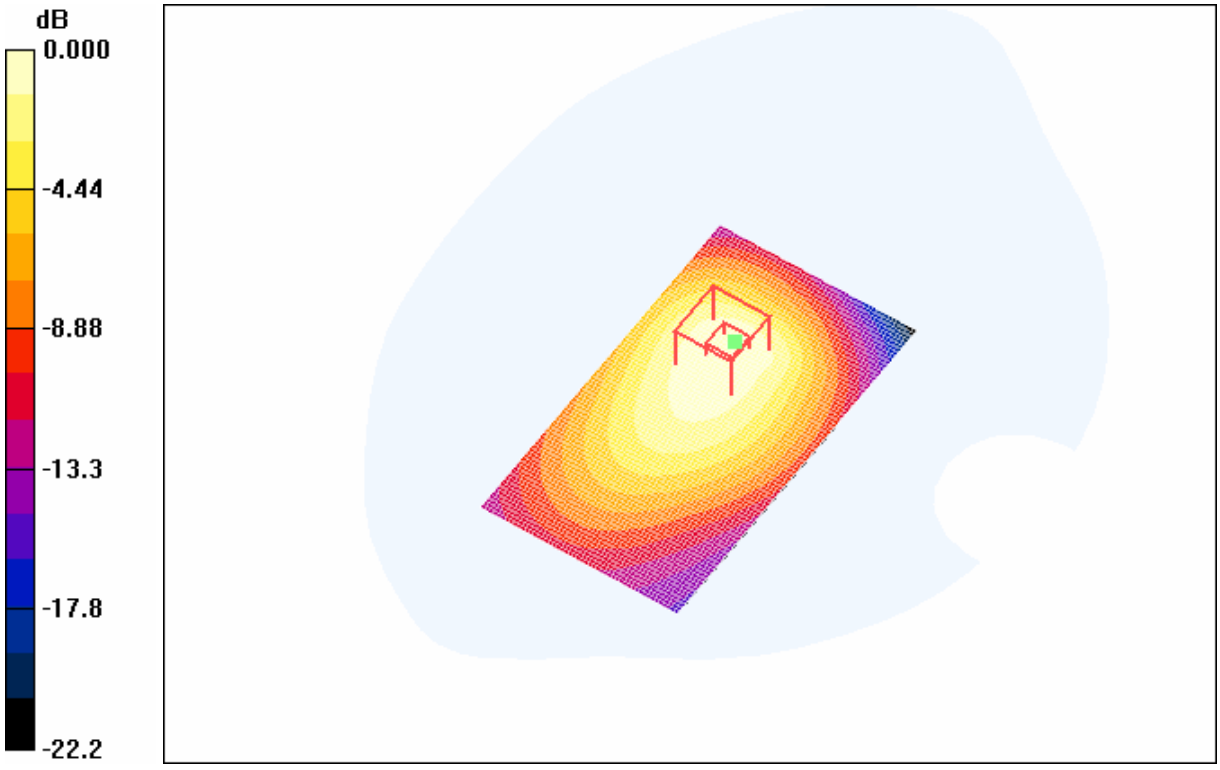
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3
Medium: HSL850-Body Medium parameters used: f = 836.4 MHz; σ = 0.998 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.83, 5.83, 5.83); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - Middle/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 23.5 V/m; Power Drift = 0.043 dB
Motorola Fast SAR: SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.370 mW/g
Maximum value of SAR (interpolated) = 0.583 mW/g



0 dB = 0.583mW/g

4.15 Body-Worn-GSM850-High-off

Date/Time: 2006-5-25 15:36:34

Test Laboratory: SGS-GSM

GSM850-Body-Worn-High-off

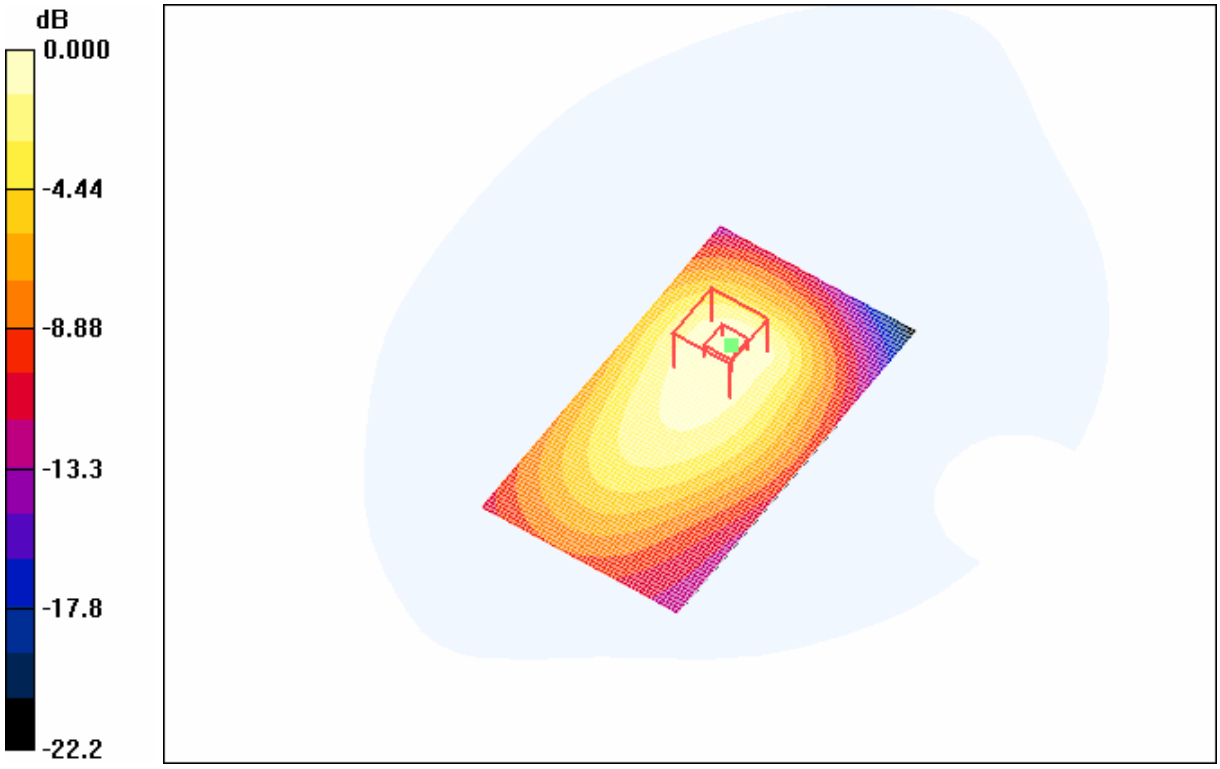
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL850-Body Medium parameters used: f = 848.8 MHz; σ = 1.01 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.83, 5.83, 5.83); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - High/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 21.8 V/m; Power Drift = 0.019 dB
Motorola Fast SAR: SAR(1 g) = 0.463 mW/g; SAR(10 g) = 0.320 mW/g
Maximum value of SAR (interpolated) = 0.503 mW/g



0 dB = 0.503mW/g

Body-Worn-GSM850-Low-off (Maximum Value)

Date/Time: 2006-5-25 15:52:15

Test Laboratory: SGS-GSM

GSM850-Body-Worn-Low-off(conventional)

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

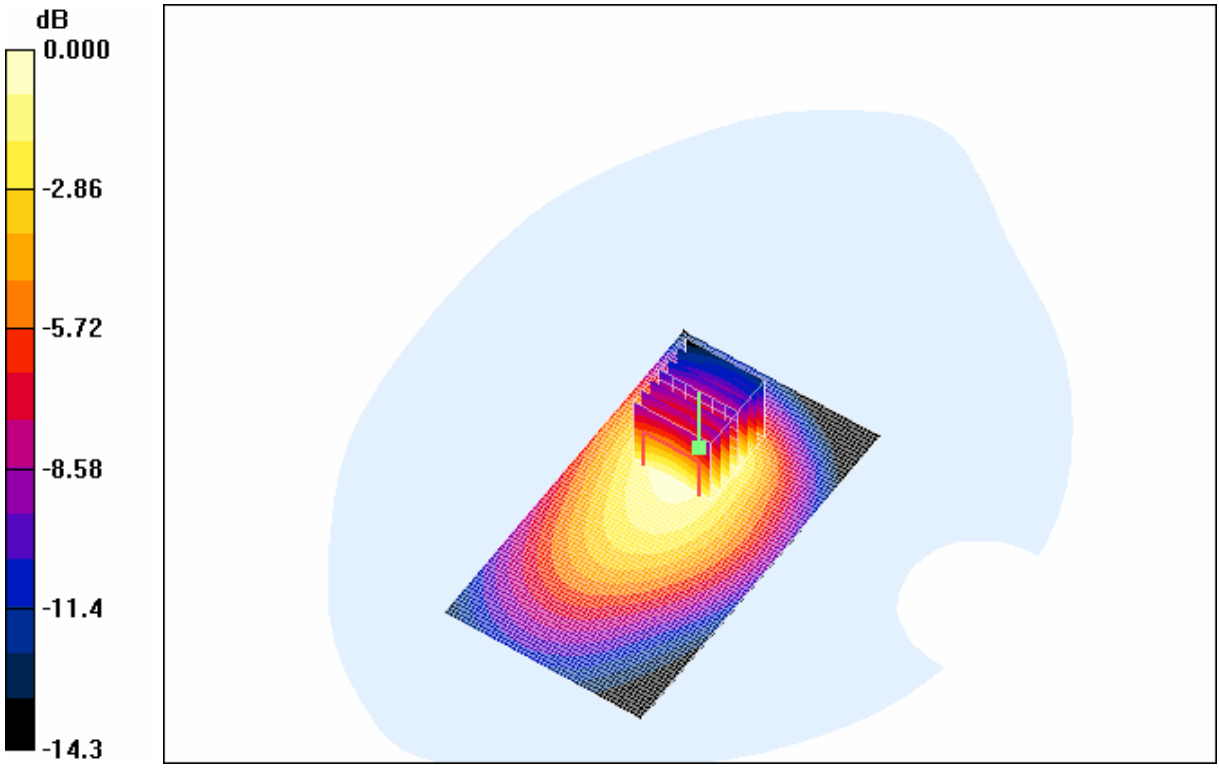
Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HSL850-Body Medium parameters used: f = 824.2 MHz; σ = 0.984 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.83, 5.83, 5.83); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Taditional Method/Area Scan (51x91x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.662 mW/g

Maximum Position - Taditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 25.3 V/m; Power Drift = -0.009 dB
Peak SAR (extrapolated) = 0.882 W/kg
SAR(1 g) = 0.601 mW/g; SAR(10 g) = 0.400 mW/g
Maximum value of SAR (measured) = 0.648 mW/g



0 dB = 0.648mW/g

4.16 LeftHandSide-Cheek-GSM850-Low-on

Date/Time: 2006-5-30 20:38:41

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-Low-on

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

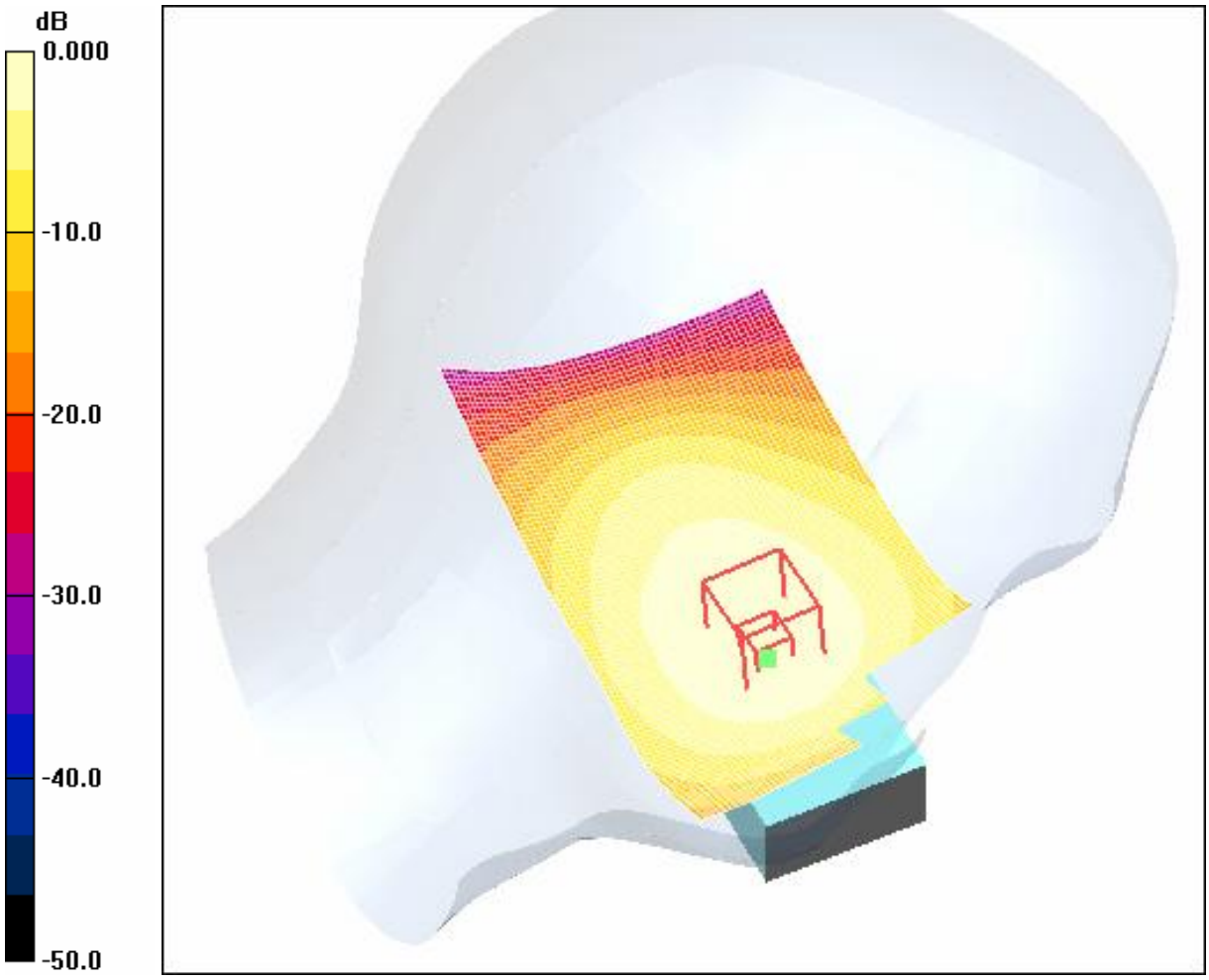
Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 19.3 V/m; Power Drift = -0.138 dB
Motorola Fast SAR: SAR(1 g) = 0.952 mW/g; SAR(10 g) = 0.663 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.02 mW/g



0 dB = 1.02mW/g

4.17 LeftHandSide-Cheek-GSM850-Middle-on

Date/Time: 2006-5-30 20:48:21

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-Mid-on

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.878 mho/m; ε_r = 41.7; ρ = 1000 kg/m^3

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

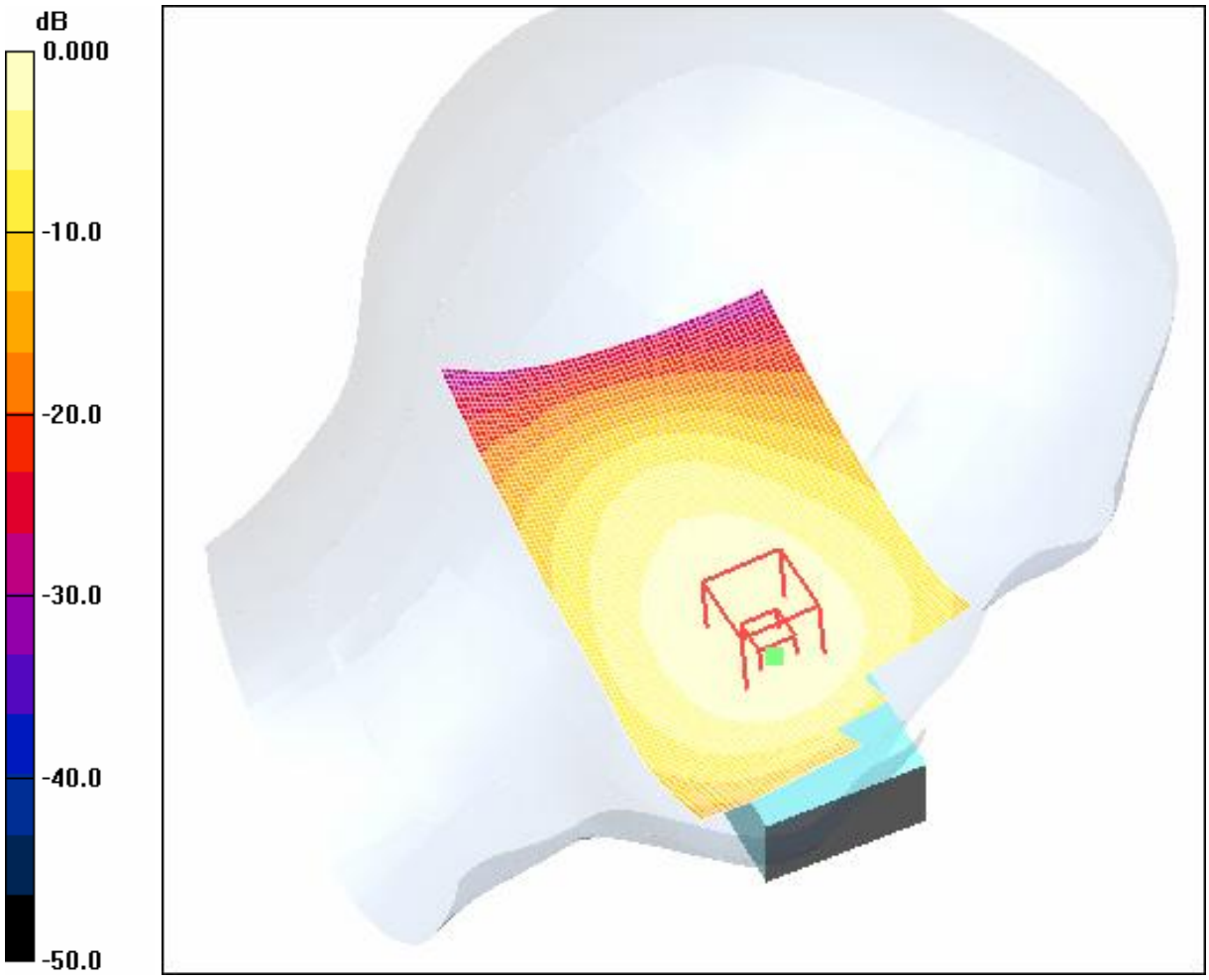
Cheek Position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.9 V/m; Power Drift = -0.081 dB

Motorola Fast SAR: SAR(1 g) = 0.643 mW/g; SAR(10 g) = 0.448 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.687 mW/g



0 dB = 0.687mW/g

4.18 LeftHandSide-Cheek-GSM850-High-on

Date/Time: 2006-5-30 20:58:06

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-High-on

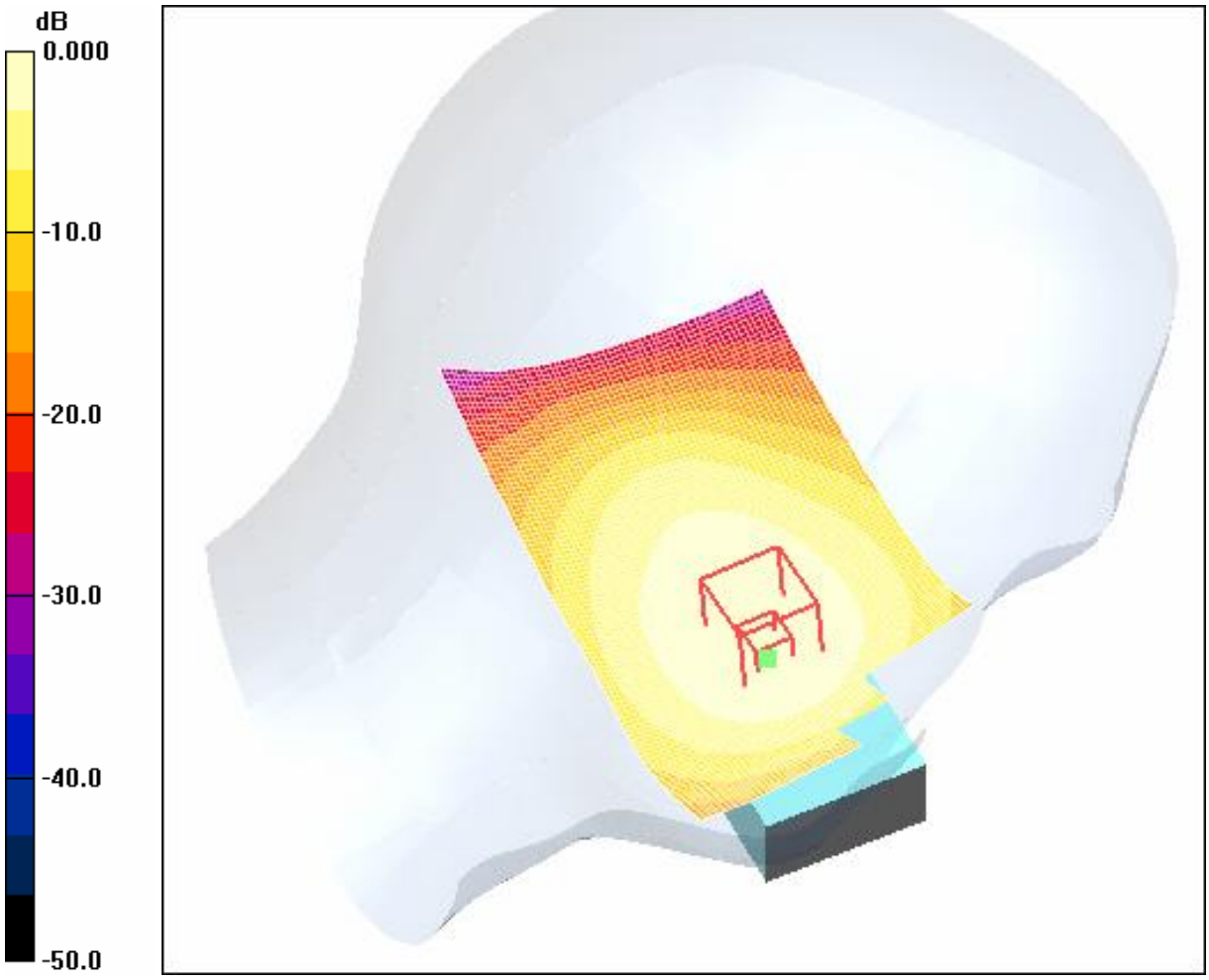
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used: f = 849 MHz; σ = 0.89 mho/m; ε_r = 41.6; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 14.8 V/m; Power Drift = -0.075 dB
Motorola Fast SAR: SAR(1 g) = 0.555 mW/g; SAR(10 g) = 0.388 mW/g
Maximum value of SAR (interpolated) = 0.595 mW/g



0 dB = 0.595mW/g

4.19 LeftHandSide-Tilt-GSM850-Low-on

Date/Time: 2006-5-30 21:08:13

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Tilt-Low-on

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

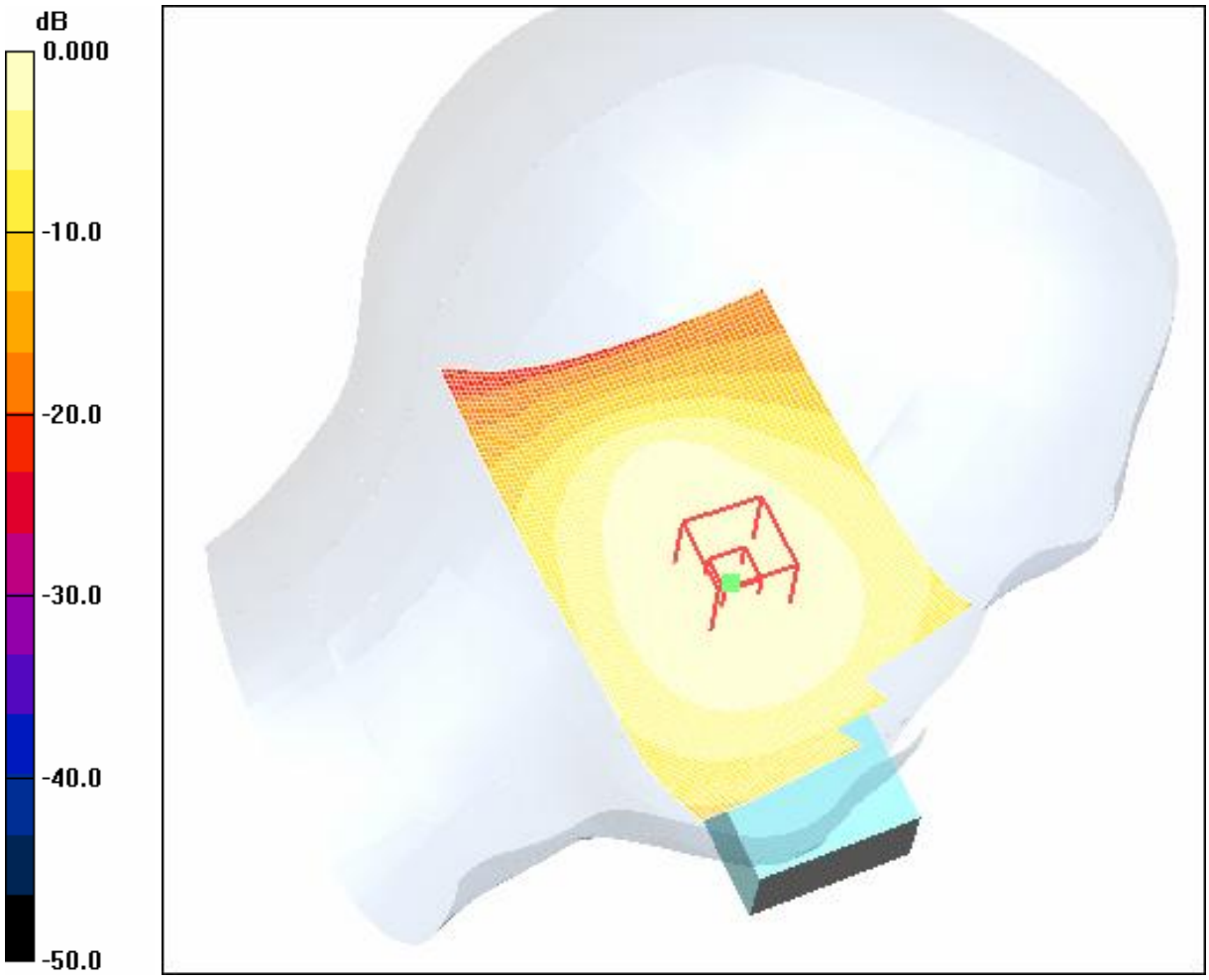
Tilt Position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.6 V/m; Power Drift = -0.028 dB

Motorola Fast SAR: SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.308 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.464 mW/g



0 dB = 0.464mW/g

4.20 LeftHandSide-Tilt-GSM850-Middle-on

Date/Time: 2006-5-30 21:17:51

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Tilt-Mid-on

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.878 mho/m; ε_r = 41.7; ρ = 1000 kg/m^3

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

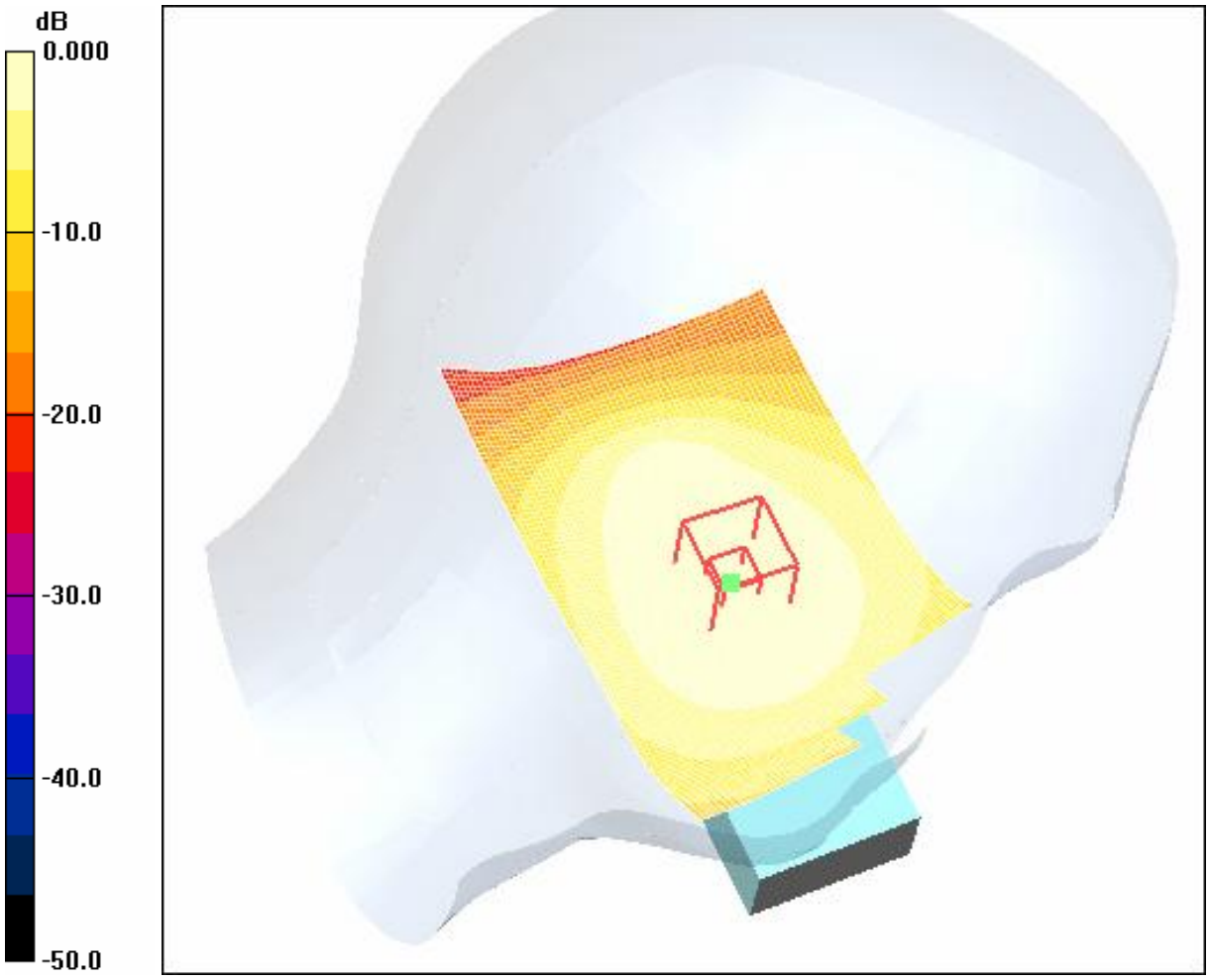
Tilt Position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 17.8 V/m; Power Drift = -0.001 dB

Motorola Fast SAR: SAR(1 g) = 0.309 mW/g; SAR(10 g) = 0.218 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.328 mW/g



0 dB = 0.328mW/g

4.21 LeftHandSide-Tilt-GSM850-High-on

Date/Time: 2006-5-30 21:27:29

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Tilt-High-on

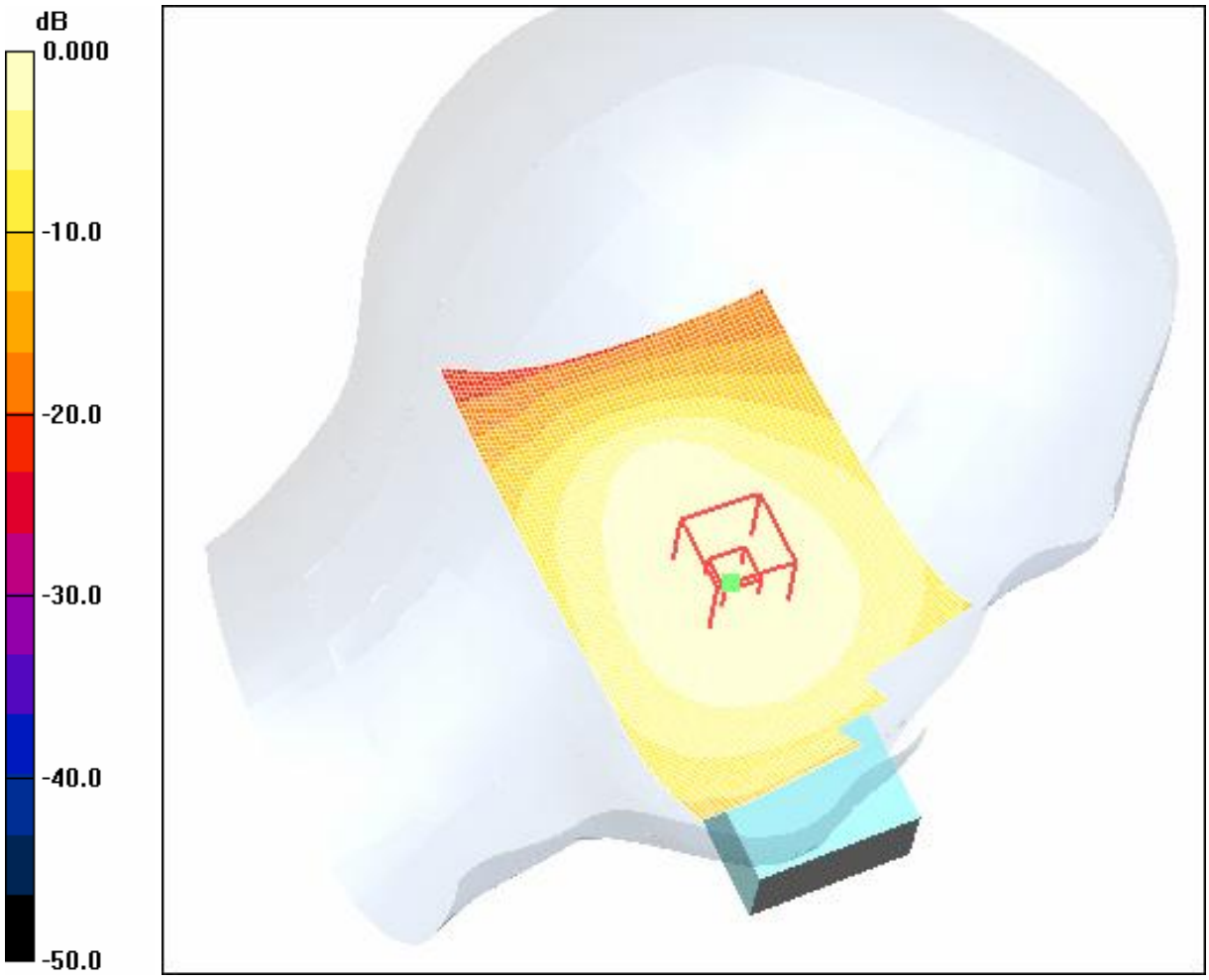
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used: f = 849 MHz; σ = 0.89 mho/m; ε_r = 41.6; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt Position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 16.5 V/m; Power Drift = -0.021 dB
Motorola Fast SAR: SAR(1 g) = 0.271 mW/g; SAR(10 g) = 0.191 mW/g
Maximum value of SAR (interpolated) = 0.288 mW/g



0 dB = 0.288mW/g

LeftHandSide-Cheek-GSM850-Low-on(Maximum Value)

Date/Time: 2006-5-30 21:44:50

Test Laboratory: SGS-GSM

GSM850-LeftHandSide-Cheek-Low-on(conventional)

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

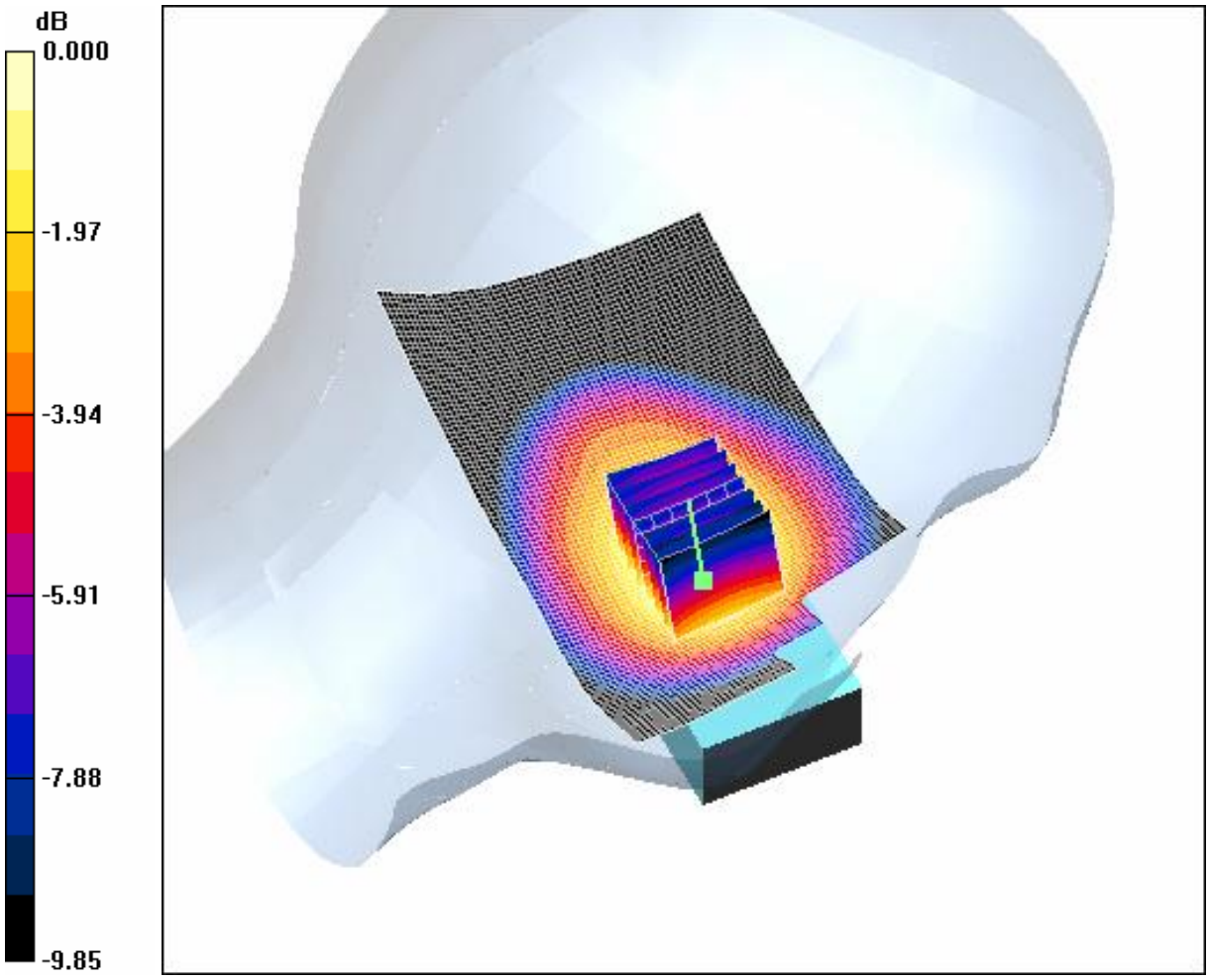
- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Traditional Method/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.965 mW/g

Maximum Position - Traditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.9 V/m; Power Drift = 0.028 dB
Peak SAR (extrapolated) = 1.25 W/kg
SAR(1 g) = 0.905 mW/g; SAR(10 g) = 0.644 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.972 mW/g



0 dB = 0.972mW/g

4.22 RightHandSide-Cheek-GSM850-Low-on

Date/Time: 2006-5-31 8:52:16

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-Low-on

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Low/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.5 V/m; Power Drift = -0.081 dB

Motorola Fast SAR: SAR(1 g) = 0.947 mW/g; SAR(10 g) = 0.667 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

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

0 dB = 1.01mW/g

4.23 RightHandSide-Cheek-GSM850-Middle-on

Date/Time: 2006-5-31 9:01:21

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-Mid-on

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.878 mho/m; ε_r = 41.7; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

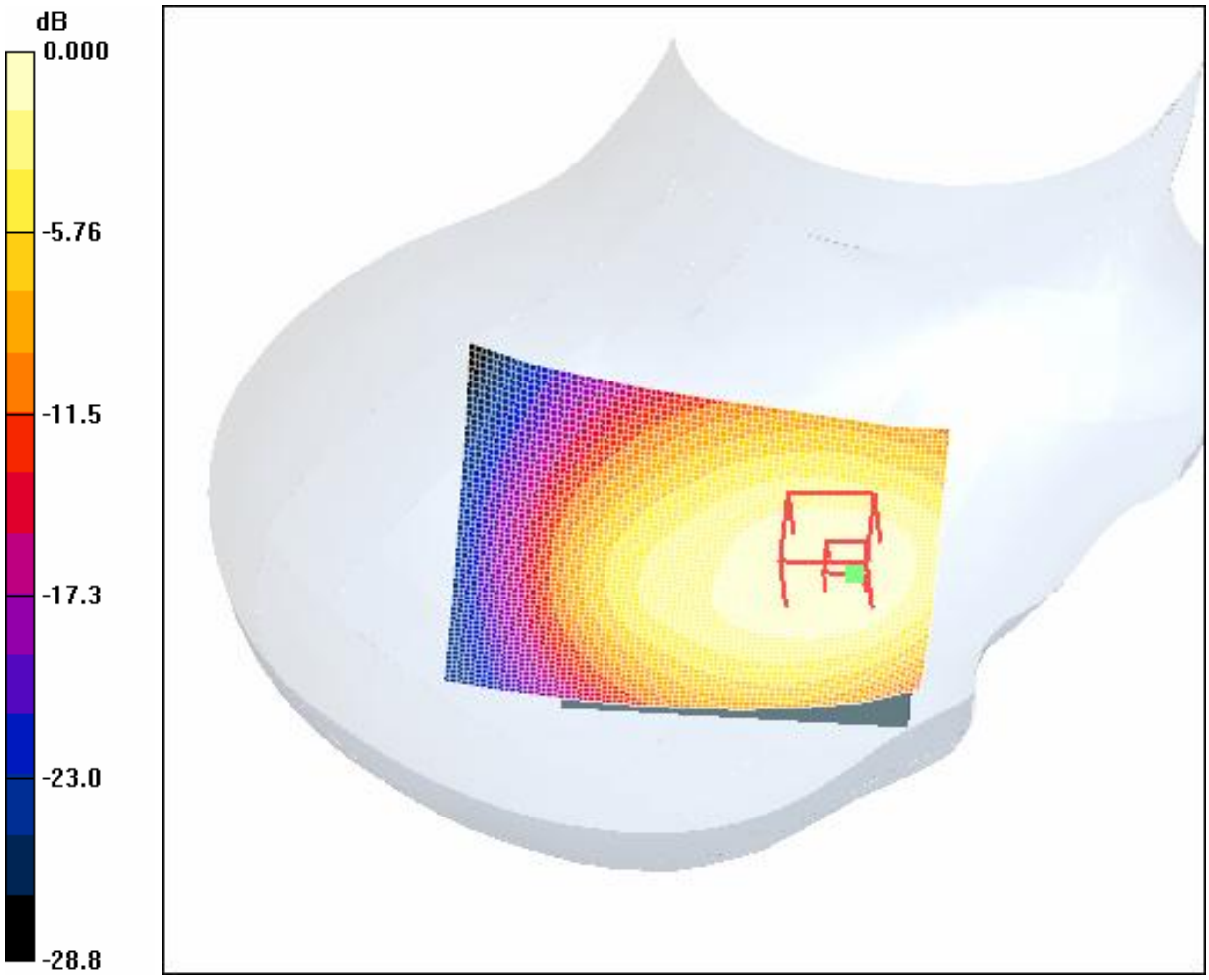
Cheek Position - Middle/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 17.4 V/m; Power Drift = -0.042 dB

Motorola Fast SAR: SAR(1 g) = 0.627 mW/g; SAR(10 g) = 0.440 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.672 mW/g



0 dB = 0.672mW/g

4.24 RightHandSide-Cheek-GSM850-High-on

Date/Time: 2006-5-31 9:13:38

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-High-on

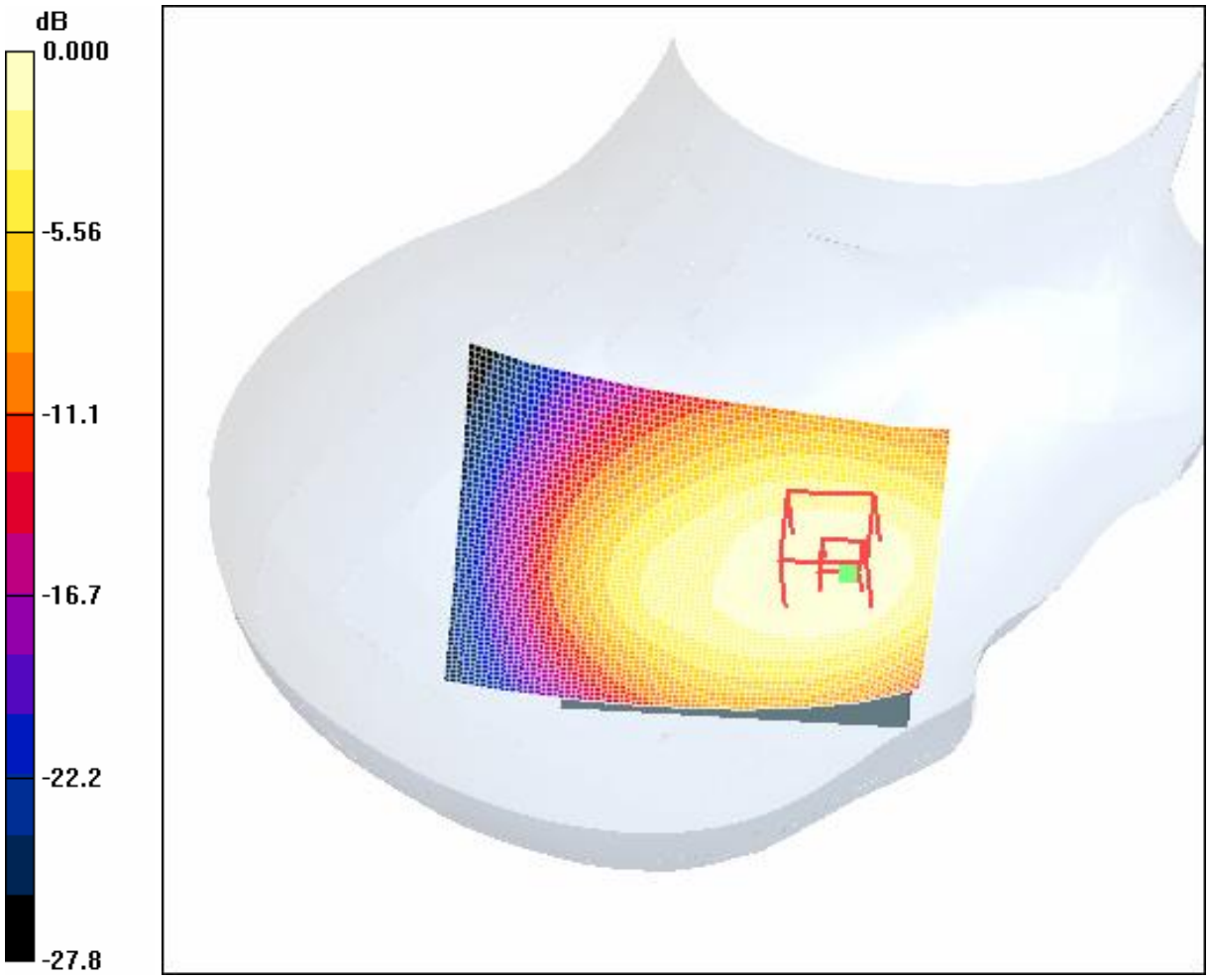
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used: f = 849 MHz; σ = 0.89 mho/m; ε_r = 41.6; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - High/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 16.1 V/m; Power Drift = -0.001 dB
Motorola Fast SAR: SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.383 mW/g
Maximum value of SAR (interpolated) = 0.584 mW/g



0 dB = 0.584mW/g

4.25 RightHandSide-Tilt-GSM850-Low-on

Date/Time: 2006-5-31 9:25:32

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Tilt-Low-on

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

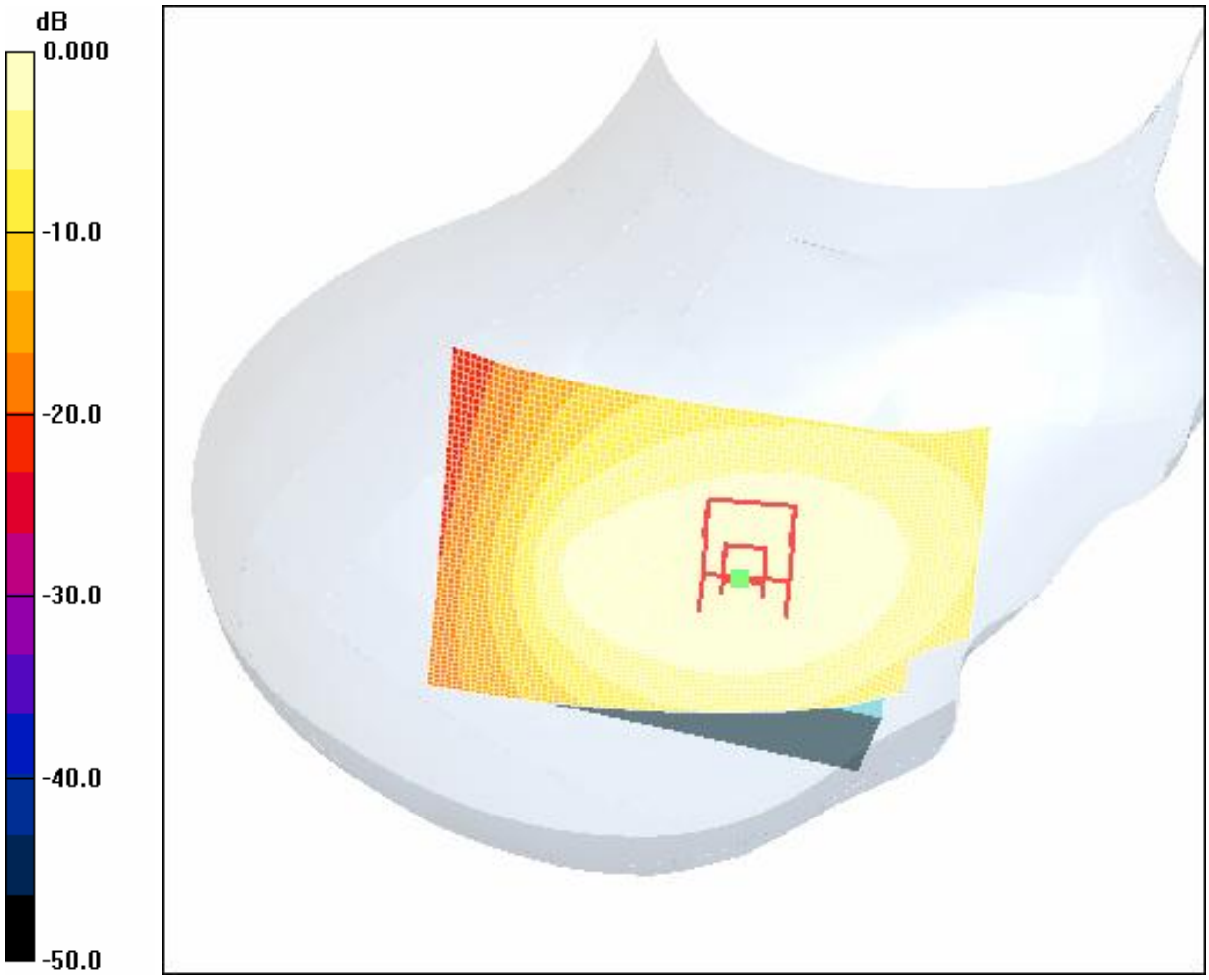
Tilt position - Low/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 21.6 V/m; Power Drift = -0.007 dB

Motorola Fast SAR: SAR(1 g) = 0.483 mW/g; SAR(10 g) = 0.341 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.513 mW/g



0 dB = 0.513mW/g

4.26 RightHandSide-Tilt-GSM850-Middle-on

Date/Time: 2006-5-31 9:55:07

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Tilt-Mid-on

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3

Medium: HSL850 Medium parameters used (interpolated): f = 836.4 MHz; σ = 0.878 mho/m; ε_r = 41.7; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

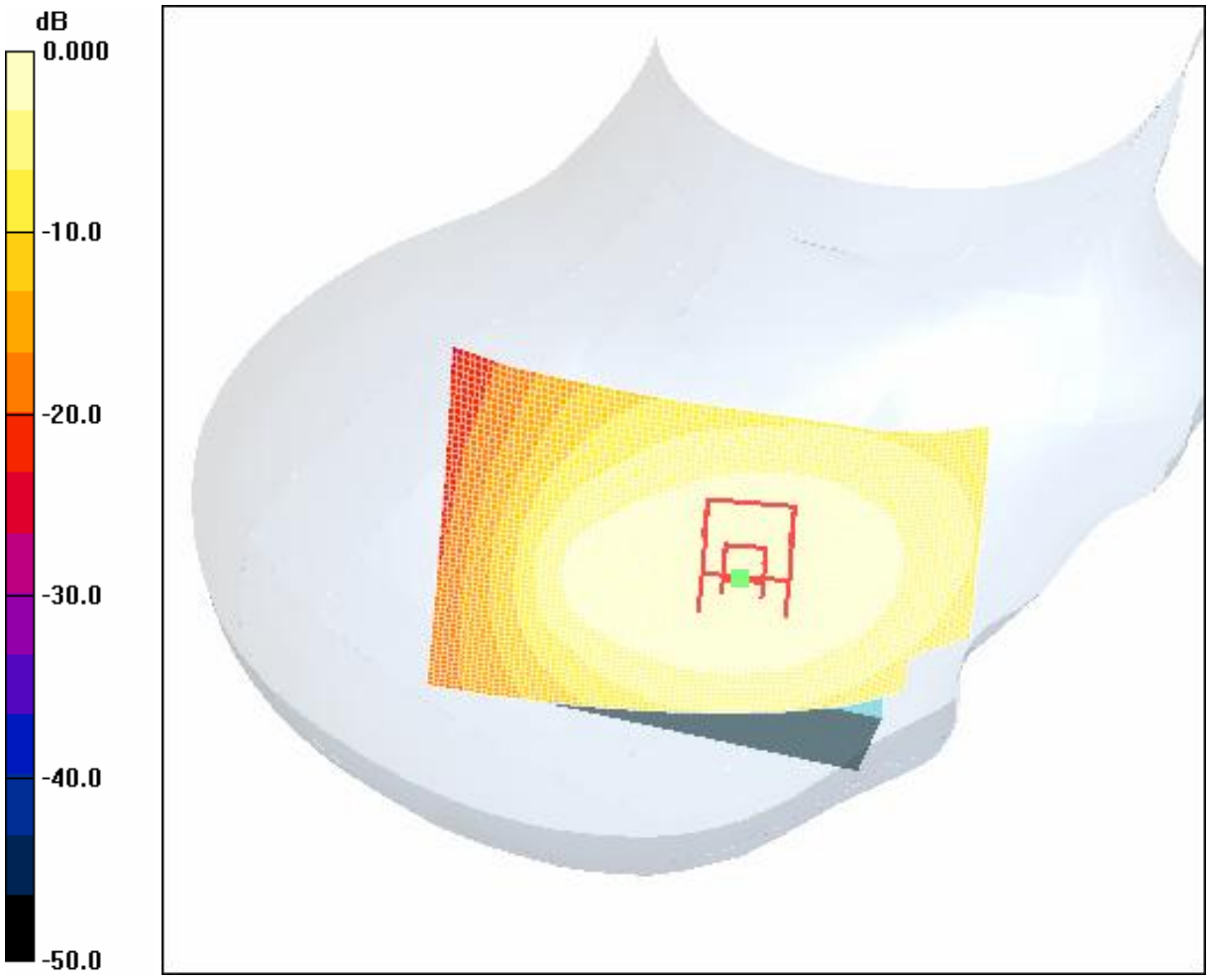
Tilt position -Middle/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 17.5 V/m; Power Drift = 0.027 dB

Motorola Fast SAR: SAR(1 g) = 0.327 mW/g; SAR(10 g) = 0.230 mW/g

Info: Interpolated medium parameters used for SAR evaluation.

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



0 dB = 0.348mW/g

4.27 RightHandSide-Tilt-GSM850-High-on

Date/Time: 2006-5-31 10:05:28

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Tilt-High-on

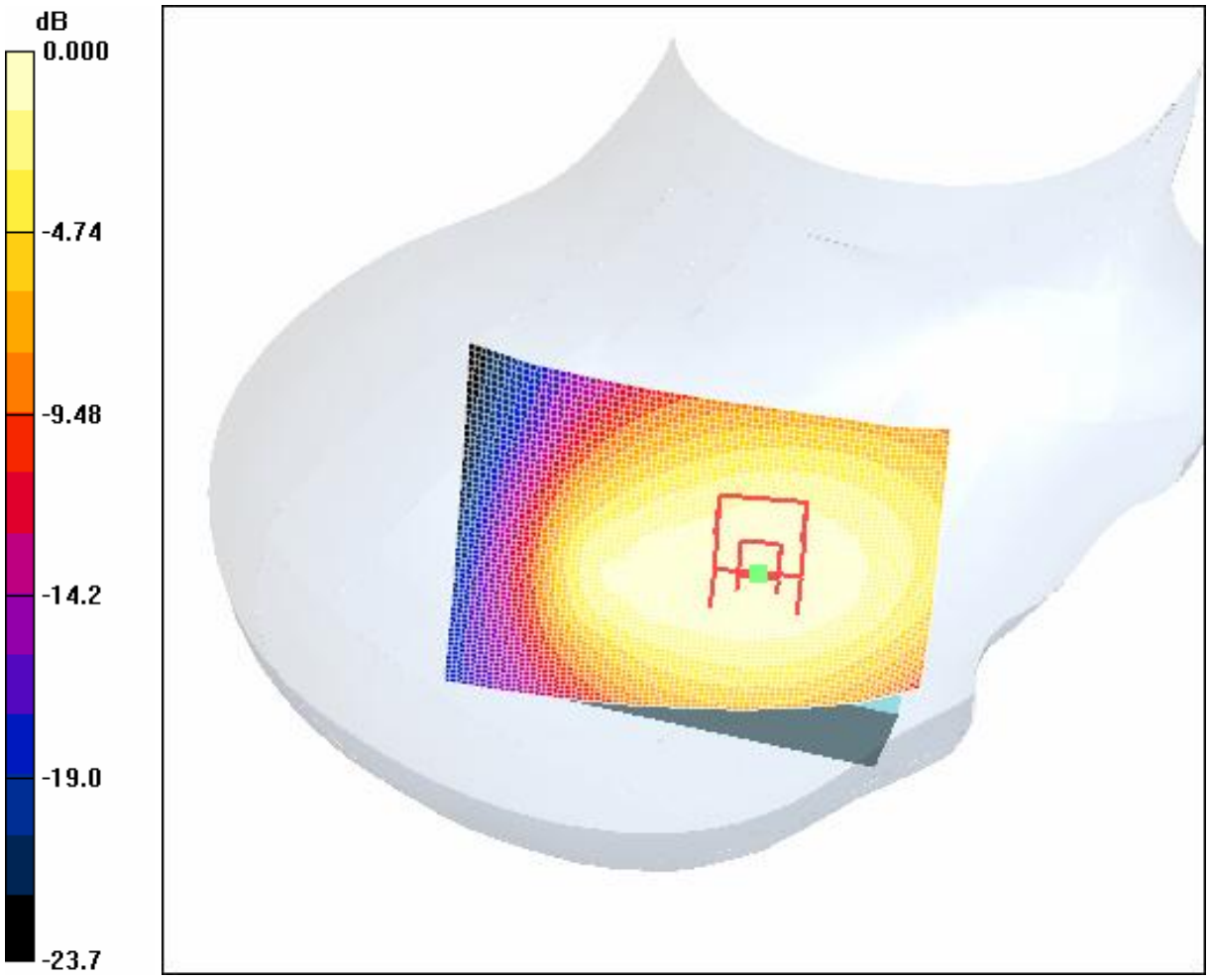
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used: f = 849 MHz; σ = 0.89 mho/m; ε_r = 41.6; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position - High/Area Scan (61x81x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 16.2 V/m; Power Drift = 0.016 dB
Motorola Fast SAR: SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.197 mW/g
Maximum value of SAR (interpolated) = 0.299 mW/g



0 dB = 0.299mW/g

RightHandSide-Cheek-GSM850-Low-on (Maximum Value)

Date/Time: 2006-5-31 10:22:57

Test Laboratory: SGS-GSM

GSM850-RightHandSide-Cheek-Low-on(conventional)

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HSL850 Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.866 mho/m; ε_r = 41.8; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

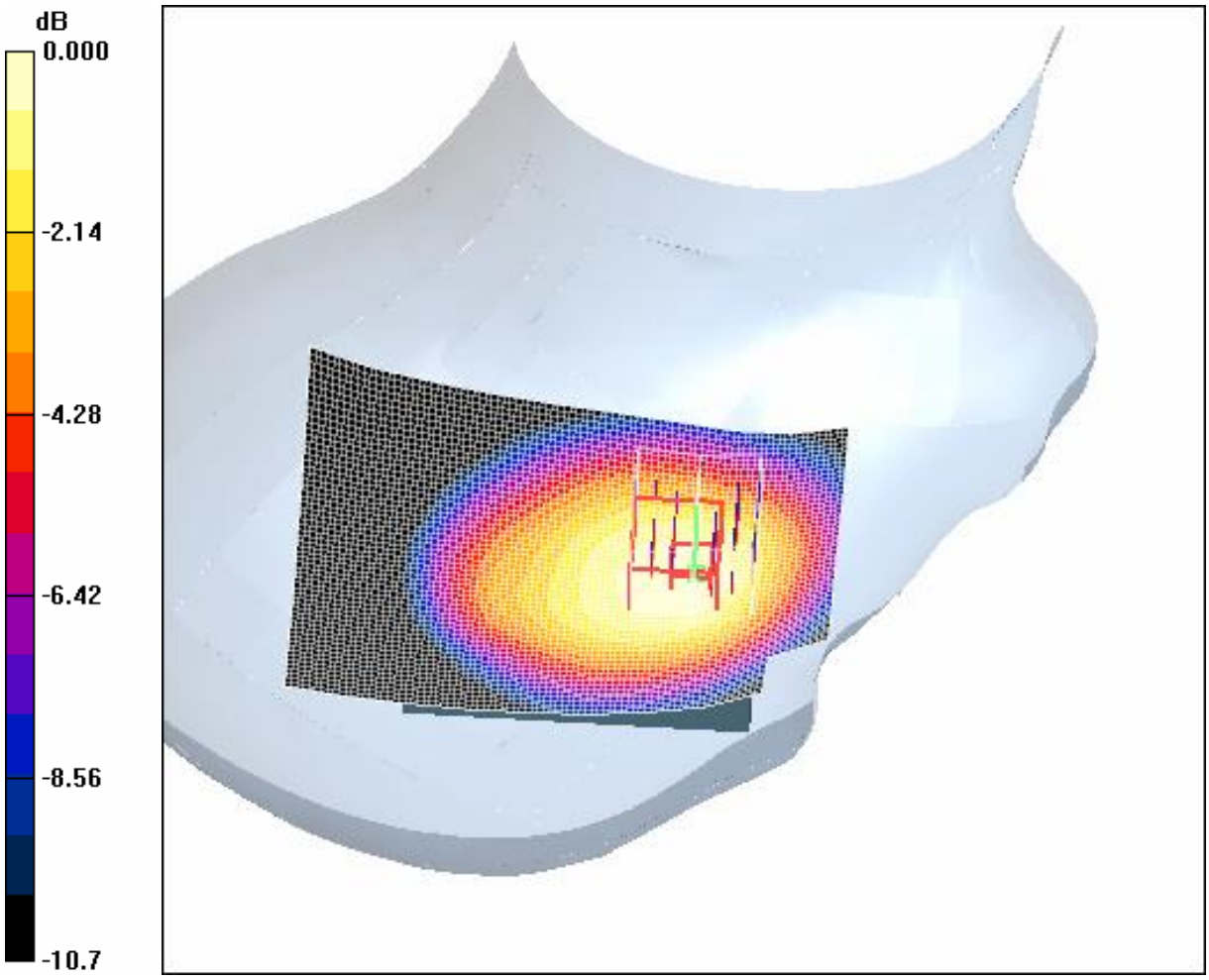
- Probe: ES3DV3 - SN3088; ConvF(5.91, 5.91, 5.91); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Traditional Method/Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.01 mW/g

Maximum Position - Traditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.1 V/m; Power Drift = -0.039 dB
Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.942 mW/g; SAR(10 g) = 0.670 mW/g

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.01 mW/g



0 dB = 1.01mW/g

4.28 Body-Worn-GSM850-Low-on

Date/Time: 2006-5-25 20:06:26

Test Laboratory: SGS-GSM

GSM850-Body-Worn-Low-on

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium: HSL850-Body Medium parameters used: f = 824.2 MHz; σ = 0.984 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

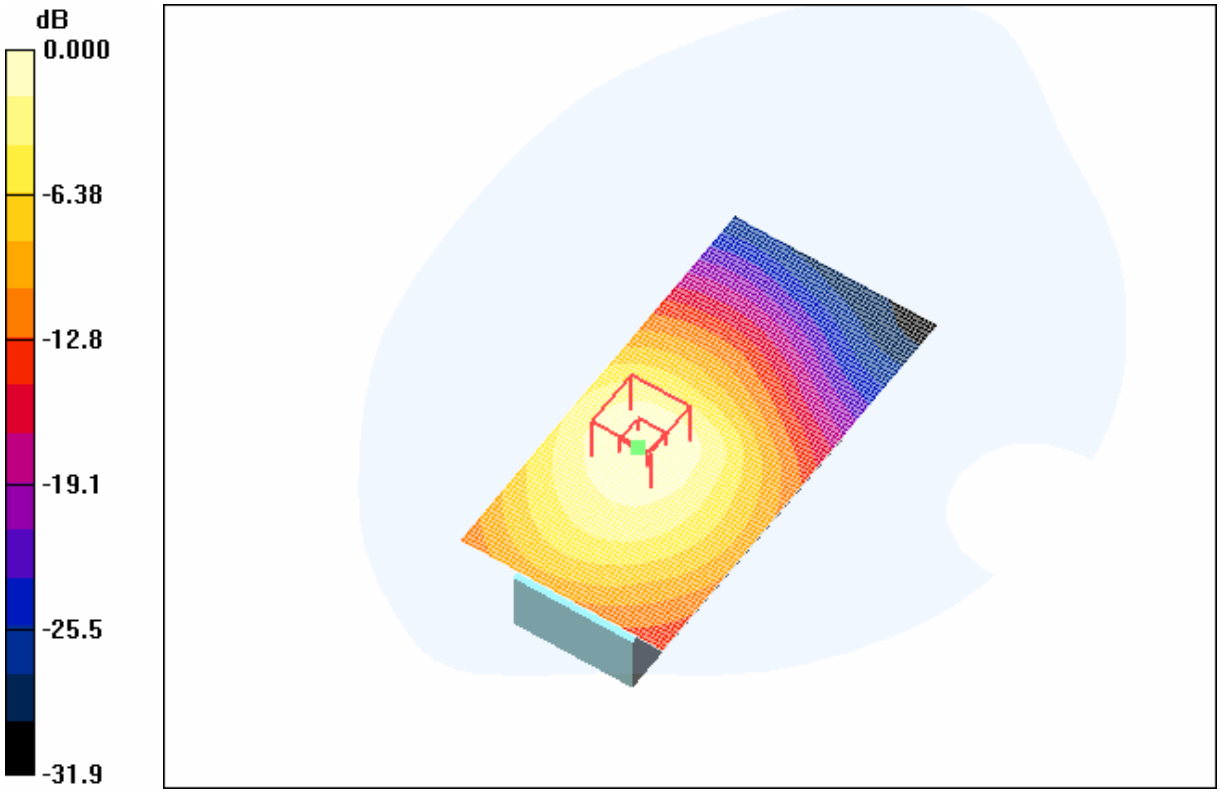
- Probe: ES3DV3 - SN3088; ConvF(5.83, 5.83, 5.83); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - Low/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 5.94 V/m; Power Drift = 0.063 dB

Motorola Fast SAR: SAR(1 g) = 0.820 mW/g; SAR(10 g) = 0.552 mW/g

Maximum value of SAR (interpolated) = 0.883 mW/g



0 dB = 0.883mW/g

4.29 Body-Worn-GSM850-Middle-on

Date/Time: 2006-5-25 20:15:01

Test Laboratory: SGS-GSM

GSM850-Body-Worn-Mid-on

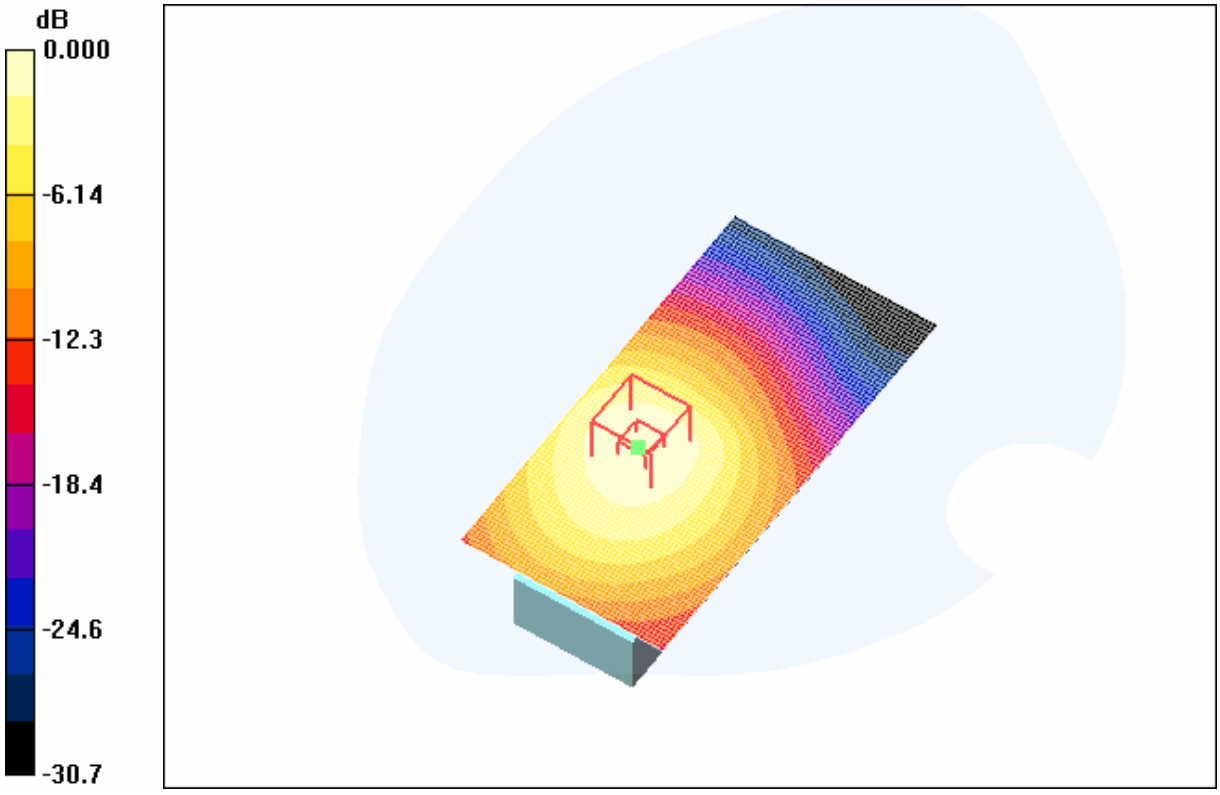
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 836.4 MHz;Duty Cycle: 1:8.3
Medium: HSL850-Body Medium parameters used: f = 836.4 MHz; σ = 0.998 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.83, 5.83, 5.83); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 5.34 V/m; Power Drift = 0.045 dB
Motorola Fast SAR: SAR(1 g) = 0.685 mW/g; SAR(10 g) = 0.461 mW/g
Maximum value of SAR (interpolated) = 0.737 mW/g



0 dB = 0.737mW/g

4.30 Body-Worn-GSM850-High-on

Date/Time: 2006-5-25 20:47:41

Test Laboratory: SGS-GSM

GSM850-Body-Worn-High-on

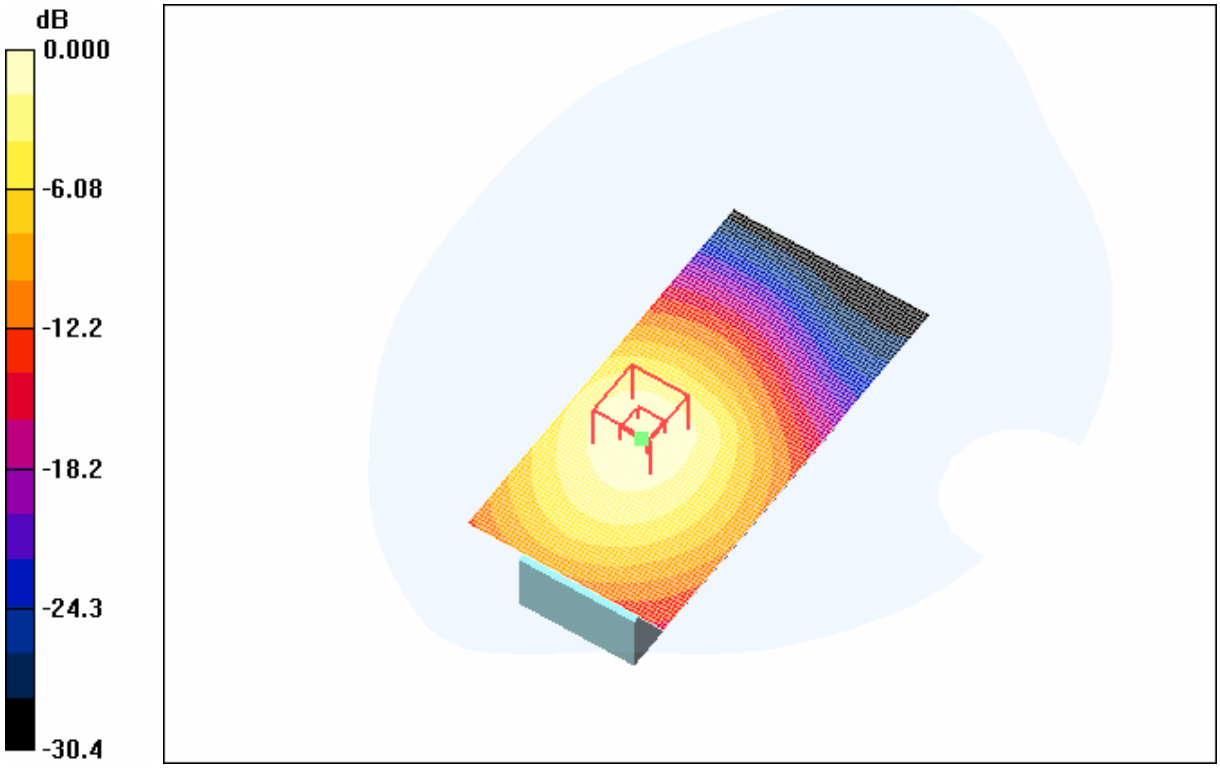
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: GSM850-GSM Mode; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL850-Body Medium parameters used: f = 848.8 MHz; σ = 1.01 mho/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.83, 5.83, 5.83); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - High/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 4.99 V/m; Power Drift = 0.041 dB
Motorola Fast SAR: SAR(1 g) = 0.629 mW/g; SAR(10 g) = 0.421 mW/g
Maximum value of SAR (interpolated) = 0.680 mW/g



0 dB = 0.680mW/g

Body-Worn-GSM850-Low-on (Maximum Value)

Date/Time: 2006-5-25 21:16:20

Test Laboratory: SGS-GSM

GSM850-Body-Worn-Low-on(conventional)

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

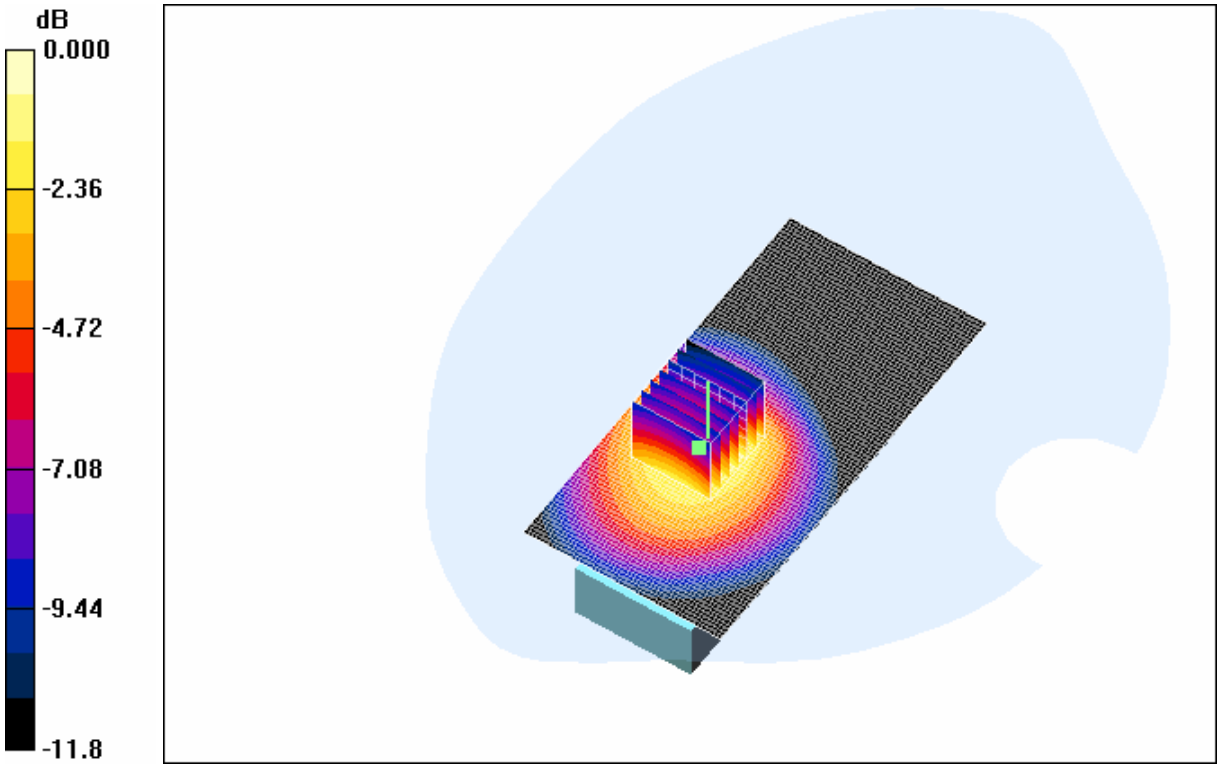
Communication System: GSM850-GSM Mode; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: HSL850-Body Medium parameters used: f = 824.2 MHz; σ = 0.984 mho/m; ε_r = 52.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(5.83, 5.83, 5.83); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Taditional Method/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.988 mW/g

Maximum Position - Taditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.08 V/m; Power Drift = 0.011 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.926 mW/g; SAR(10 g) = 0.611 mW/g
Maximum value of SAR (measured) = 1.01 mW/g



0 dB = 1.01mW/g

4.31 LeftHandSide-Cheek-PCS1900-Low-off

Date/Time: 2006-5-27 13:57:13

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Cheek-Low-off

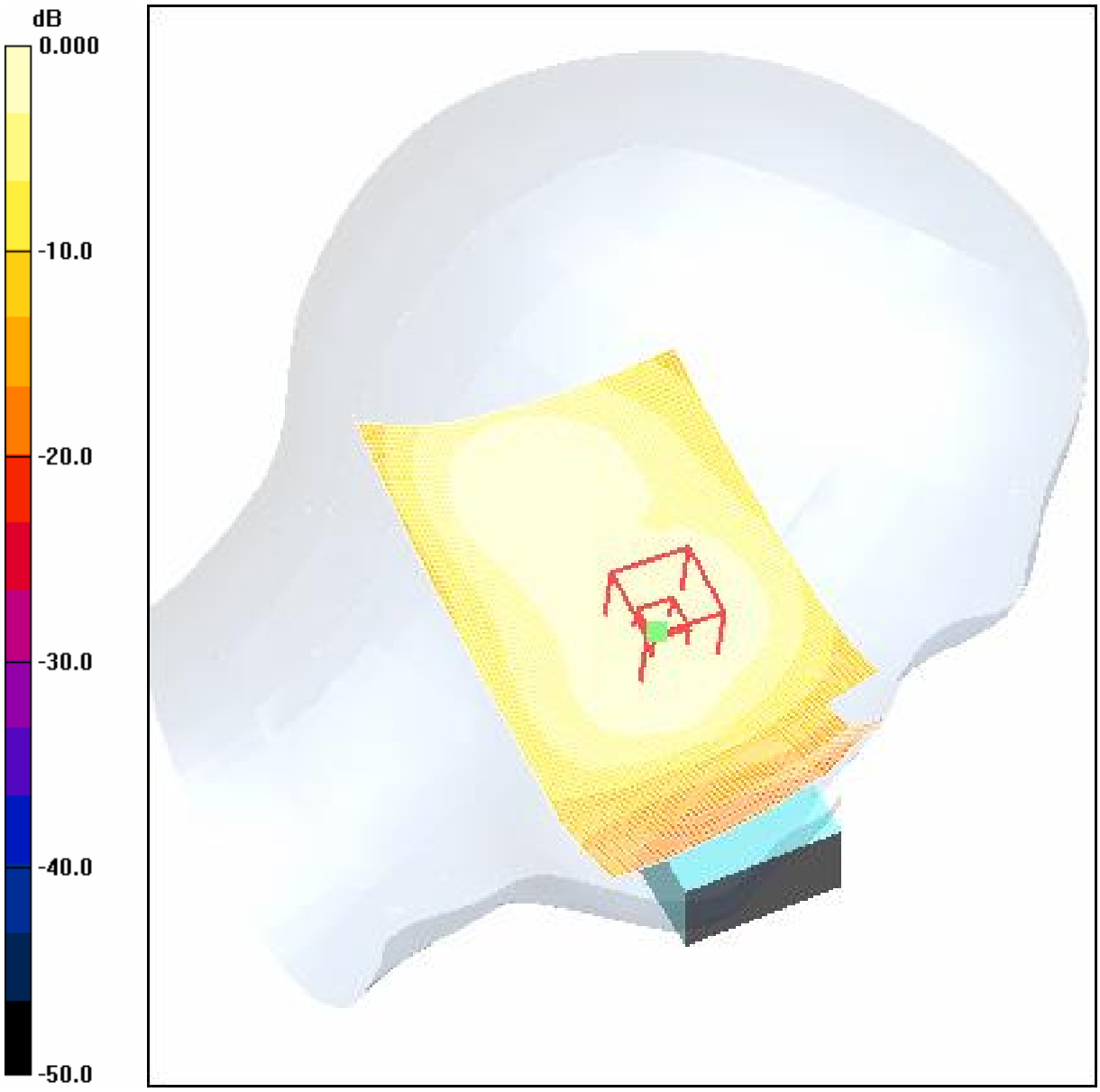
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 7.45 V/m; Power Drift = -0.016 dB
Motorola Fast SAR: SAR(1 g) = 0.113 mW/g; SAR(10 g) = 0.070 mW/g
Maximum value of SAR (interpolated) = 0.122 mW/g



0 dB = 0.122mW/g

4.32 LeftHandSide-Cheek-PCS1900-Middle-off

Date/Time: 2006-5-27 14:17:56

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Cheek-Mid-off

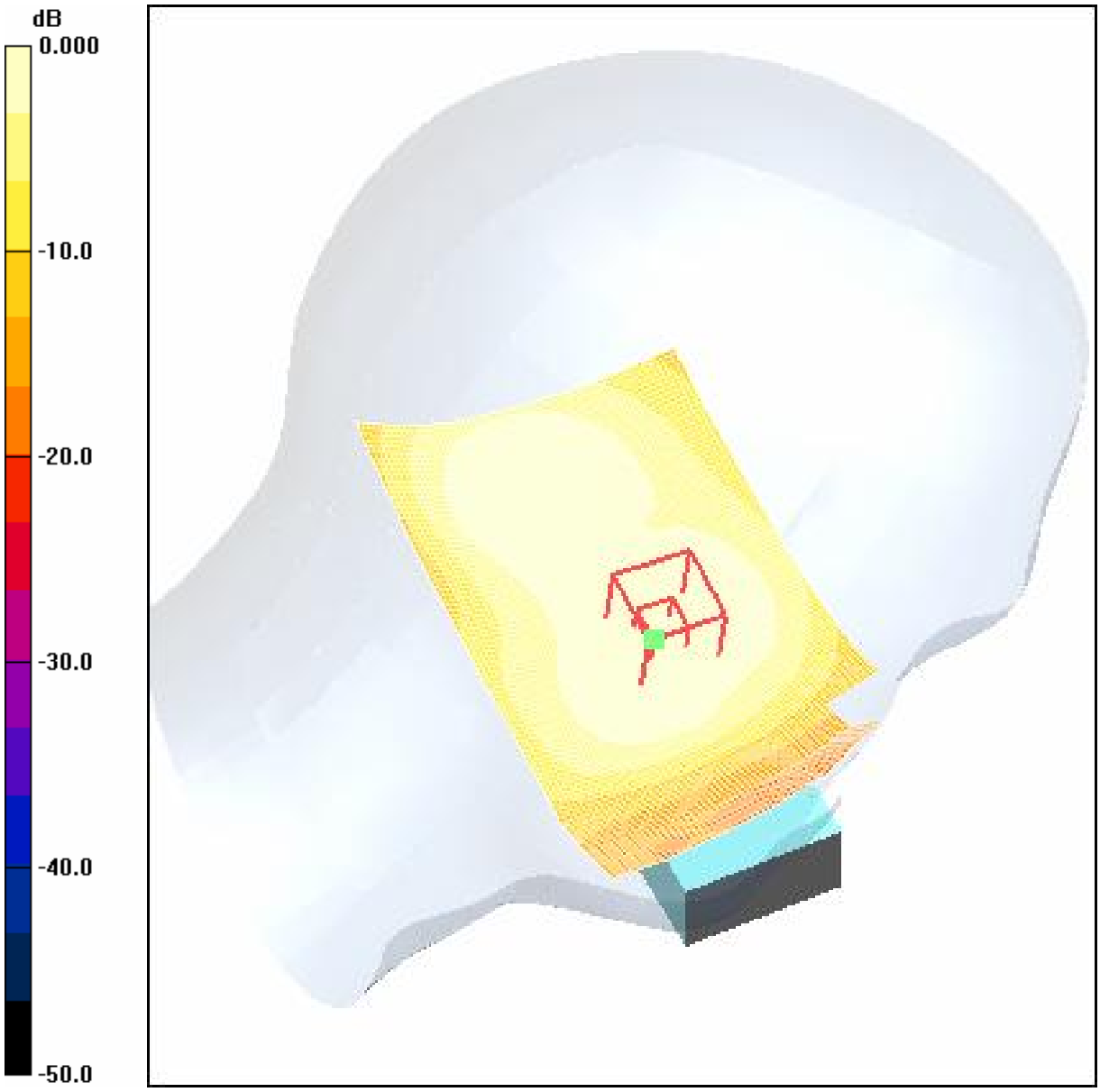
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 5.41 V/m; Power Drift = 0.098 dB
Motorola Fast SAR: SAR(1 g) = 0.069 mW/g; SAR(10 g) = 0.042 mW/g
Maximum value of SAR (interpolated) = 0.074 mW/g



0 dB = 0.074mW/g

4.33 LeftHandSide-Cheek-PCS1900-High-off

Date/Time: 2006-5-27 14:29:44

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Cheek-High-off

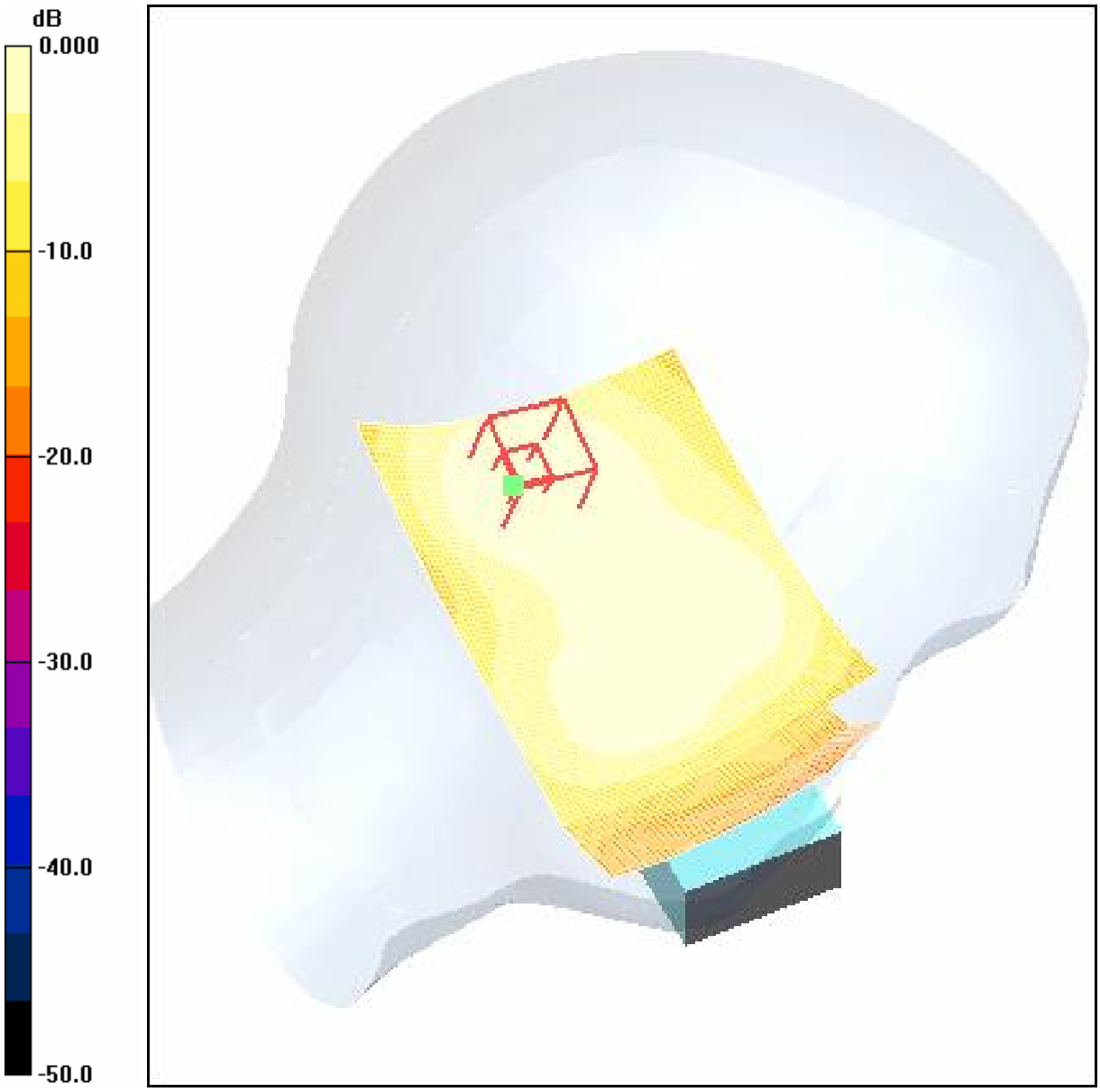
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.47 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 3.86 V/m; Power Drift = 0.128 dB
Motorola Fast SAR: SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.025 mW/g
Maximum value of SAR (interpolated) = 0.046 mW/g



0 dB = 0.046mW/g

4.34 LeftHandSide-Tilt-PCS1900-Low-off

Date/Time: 2006-5-27 14:45:21

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Tilt-Low-off

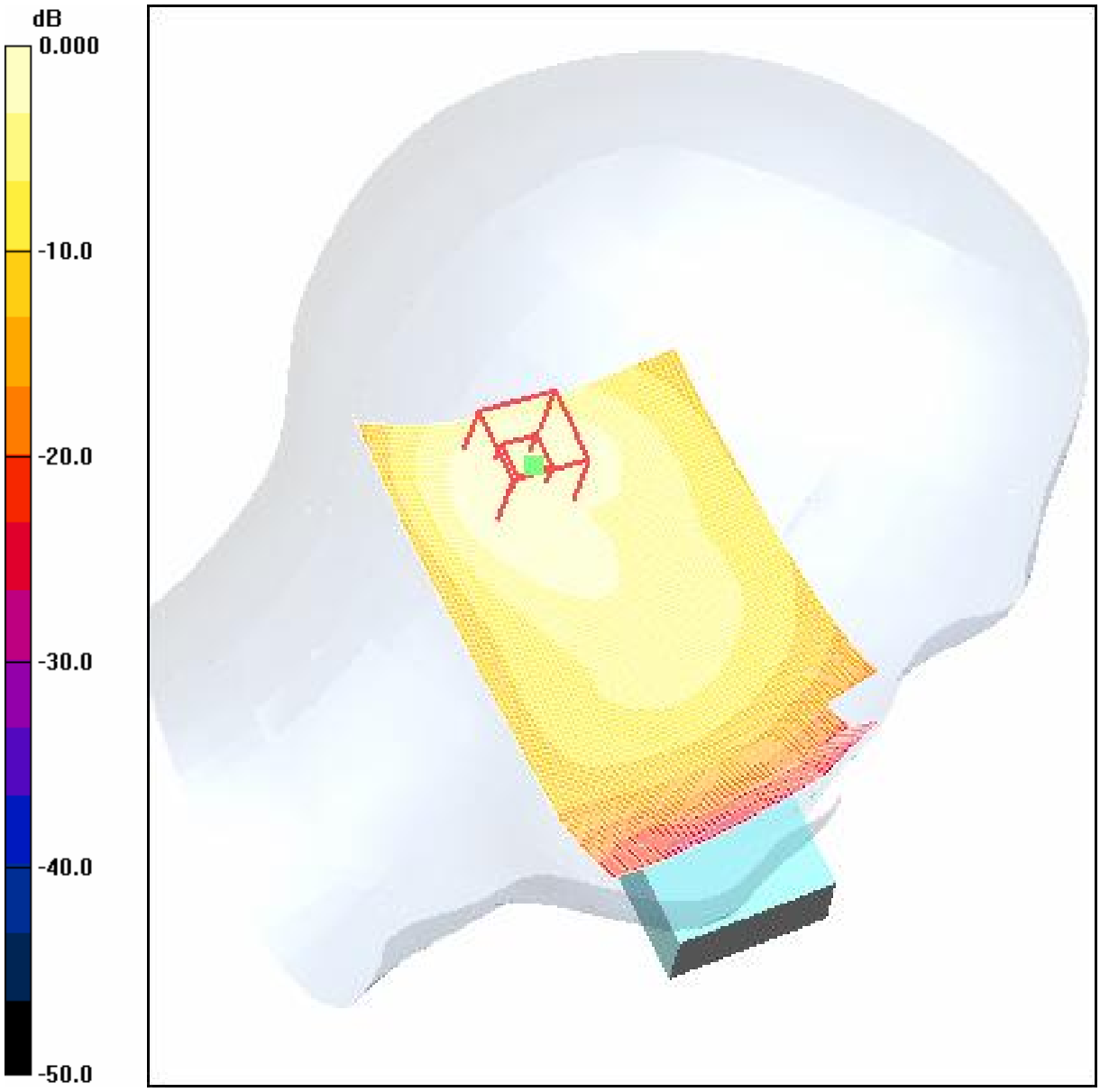
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 9.35 V/m; Power Drift = -0.167 dB
Motorola Fast SAR: SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.096 mW/g
Maximum value of SAR (interpolated) = 0.185 mW/g



0 dB = 0.185mW/g

4.35 LeftHandSide-Tilt-PCS1900-Middle-off

Date/Time: 2006-5-27 15:00:48

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Tilt-Mid-off

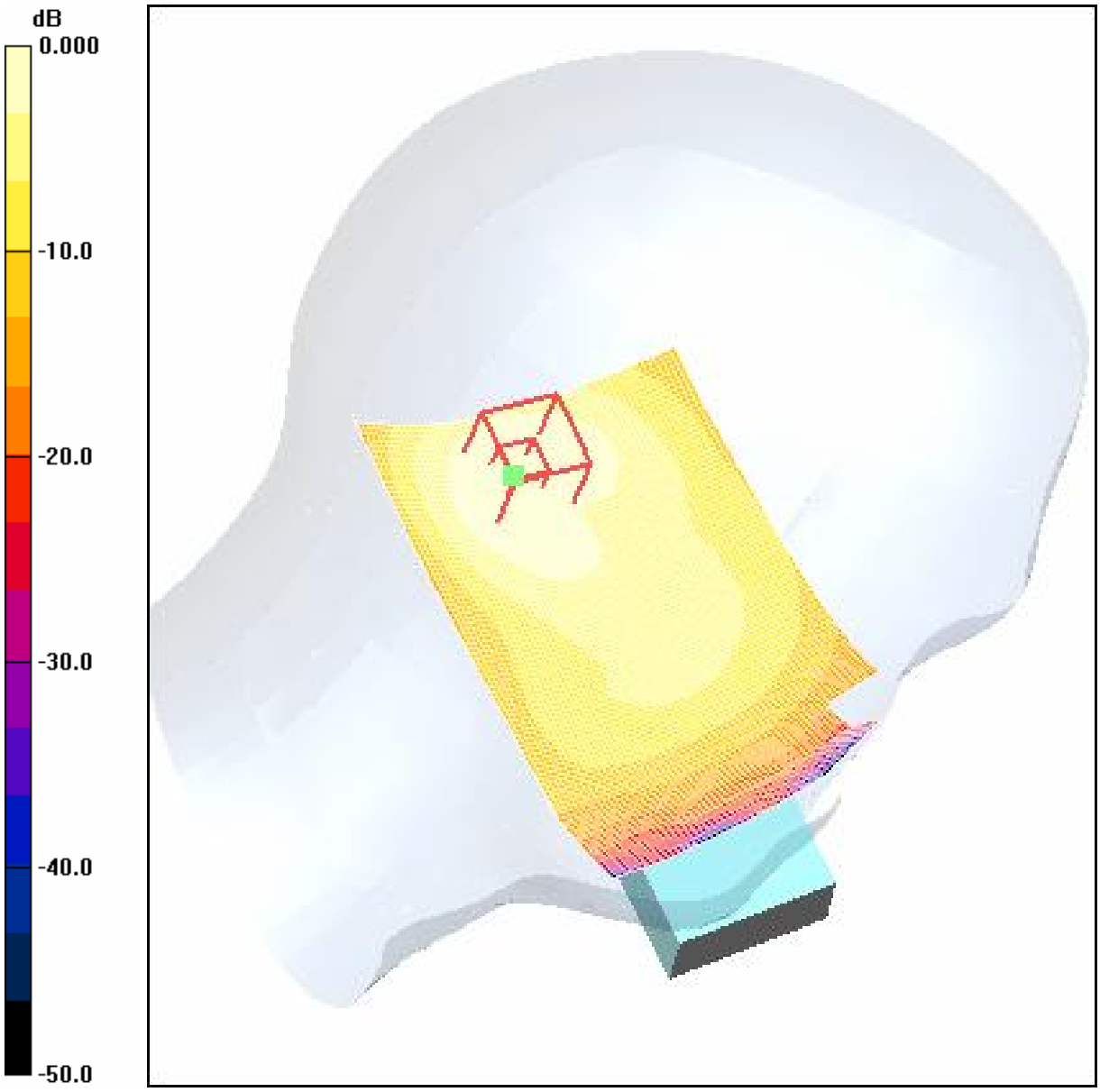
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position -Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 6.76 V/m; Power Drift = -0.064 dB
Motorola Fast SAR: SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.064 mW/g
Maximum value of SAR (interpolated) = 0.122 mW/g



0 dB = 0.122mW/g

4.36 LeftHandSide-Tilt-PCS1900-High-off

Date/Time: 2006-5-27 15:14:38

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Tilt-High-off

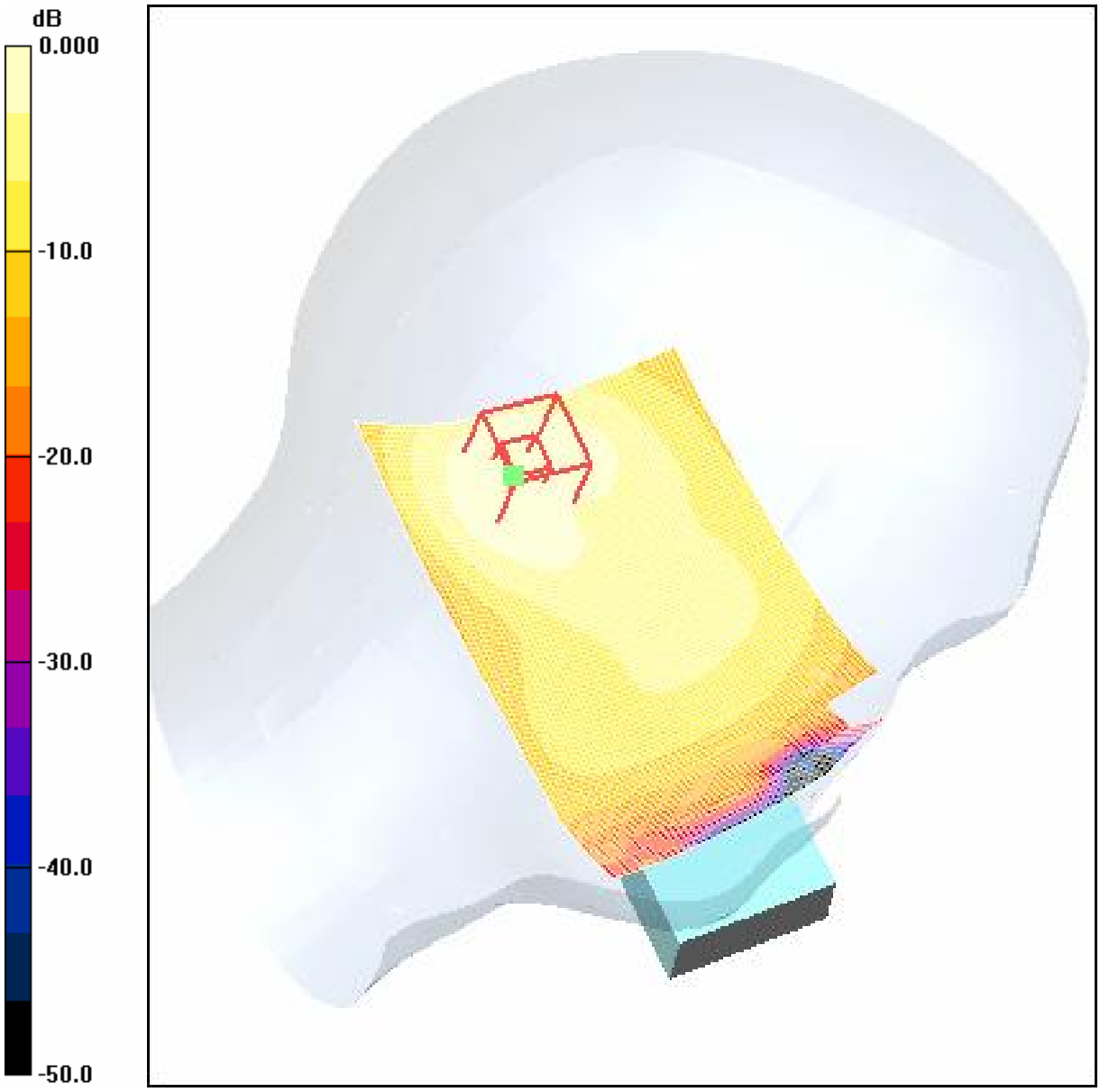
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.47 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 4.93 V/m; Power Drift = -0.089 dB
Motorola Fast SAR: SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.040 mW/g
Maximum value of SAR (interpolated) = 0.077 mW/g



0 dB = 0.077mW/g

LeftHandSide-Tilt-PCS1900-Low-off (Maximum Value)

Date/Time: 2006-5-27 15:29:32

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Tilt-Low-off(conventional)

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

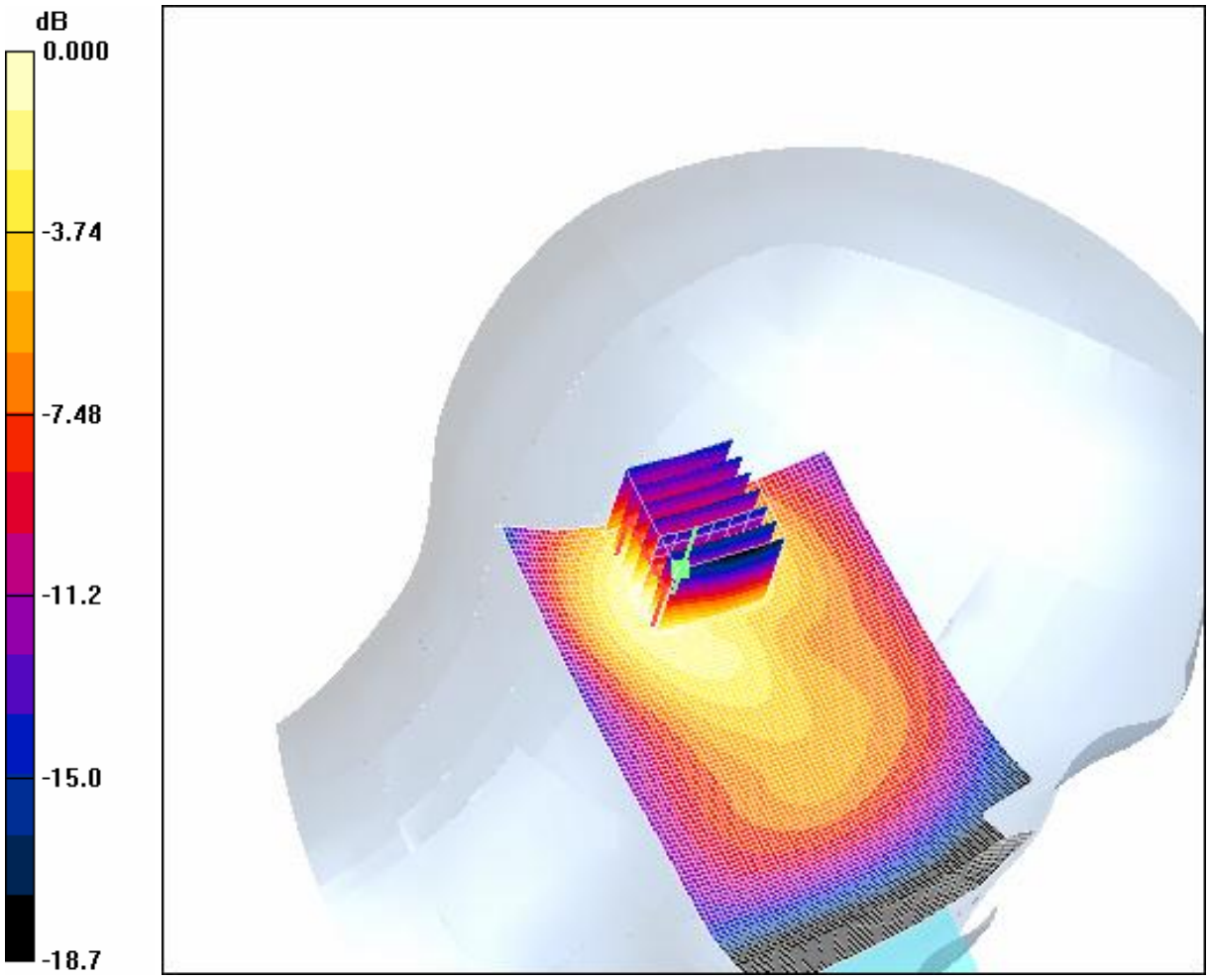
Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Traditional Method/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.185 mW/g

Maximum Position - Traditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.05 V/m; Power Drift = 0.045 dB
Peak SAR (extrapolated) = 0.300 W/kg
SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.099 mW/g
Maximum value of SAR (measured) = 0.197 mW/g



0 dB = 0.197mW/g

4.37 RightHandSide-Cheek-PCS1900-Low-off

Date/Time: 2006-5-26 21:20:38

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-Low-off

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

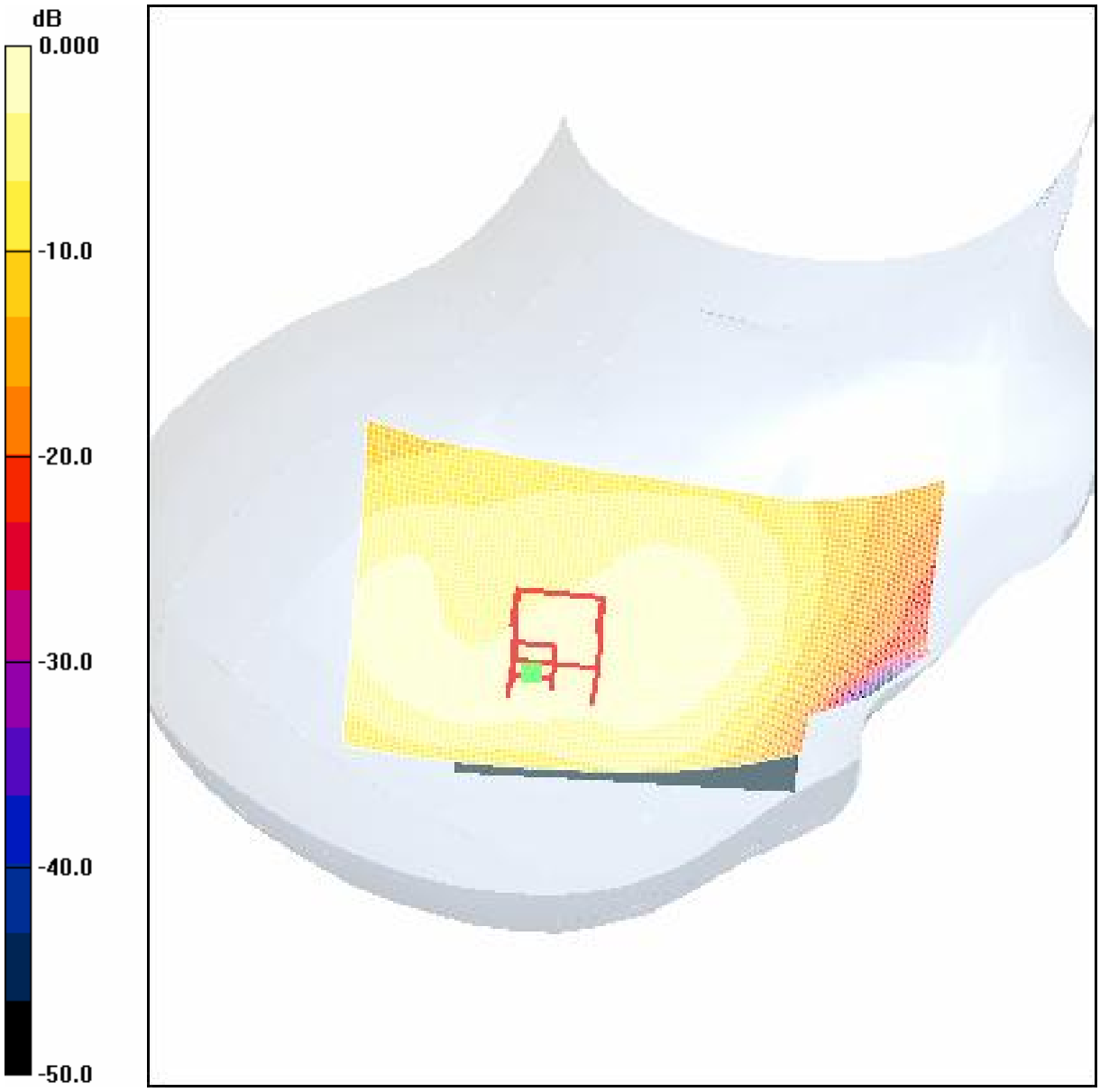
- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.31 V/m; Power Drift = -0.029 dB

Motorola Fast SAR: SAR(1 g) = 0.094 mW/g; SAR(10 g) = 0.054 mW/g

Maximum value of SAR (interpolated) = 0.106 mW/g



0 dB = 0.106mW/g

4.38 RightHandSide-Cheek-PCS1900-Middle-off

Date/Time: 2006-5-26 21:32:10

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-Mid-off

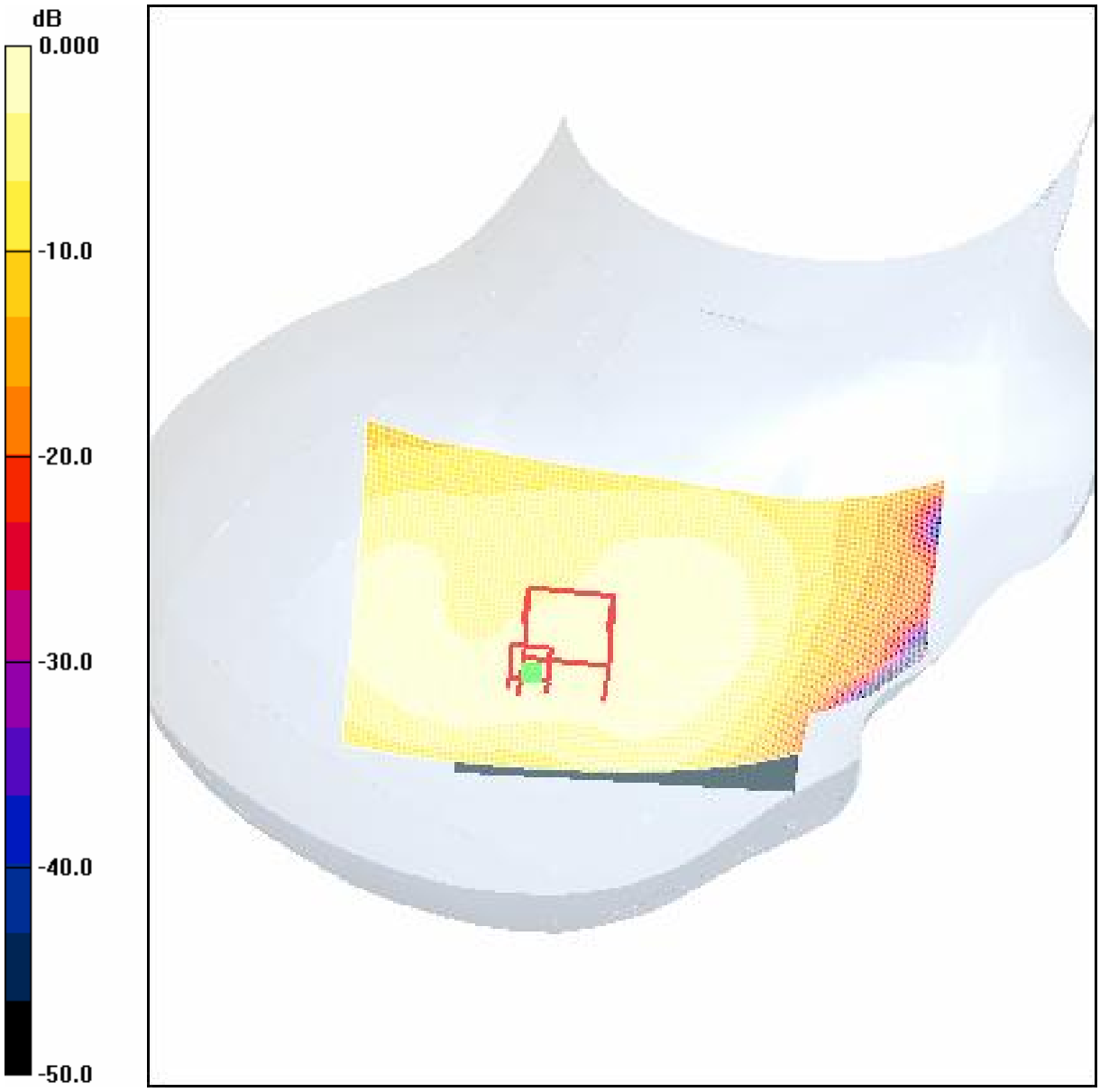
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM1900-GSM Mode; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 5.42 V/m; Power Drift = 0.037 dB
Motorola Fast SAR: SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.033 mW/g
Maximum value of SAR (interpolated) = 0.062 mW/g



0 dB = 0.062mW/g

4.39 RightHandSide-Cheek-PCS1900-High-off

Date/Time: 2006-5-26 21:43:35

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-High-off

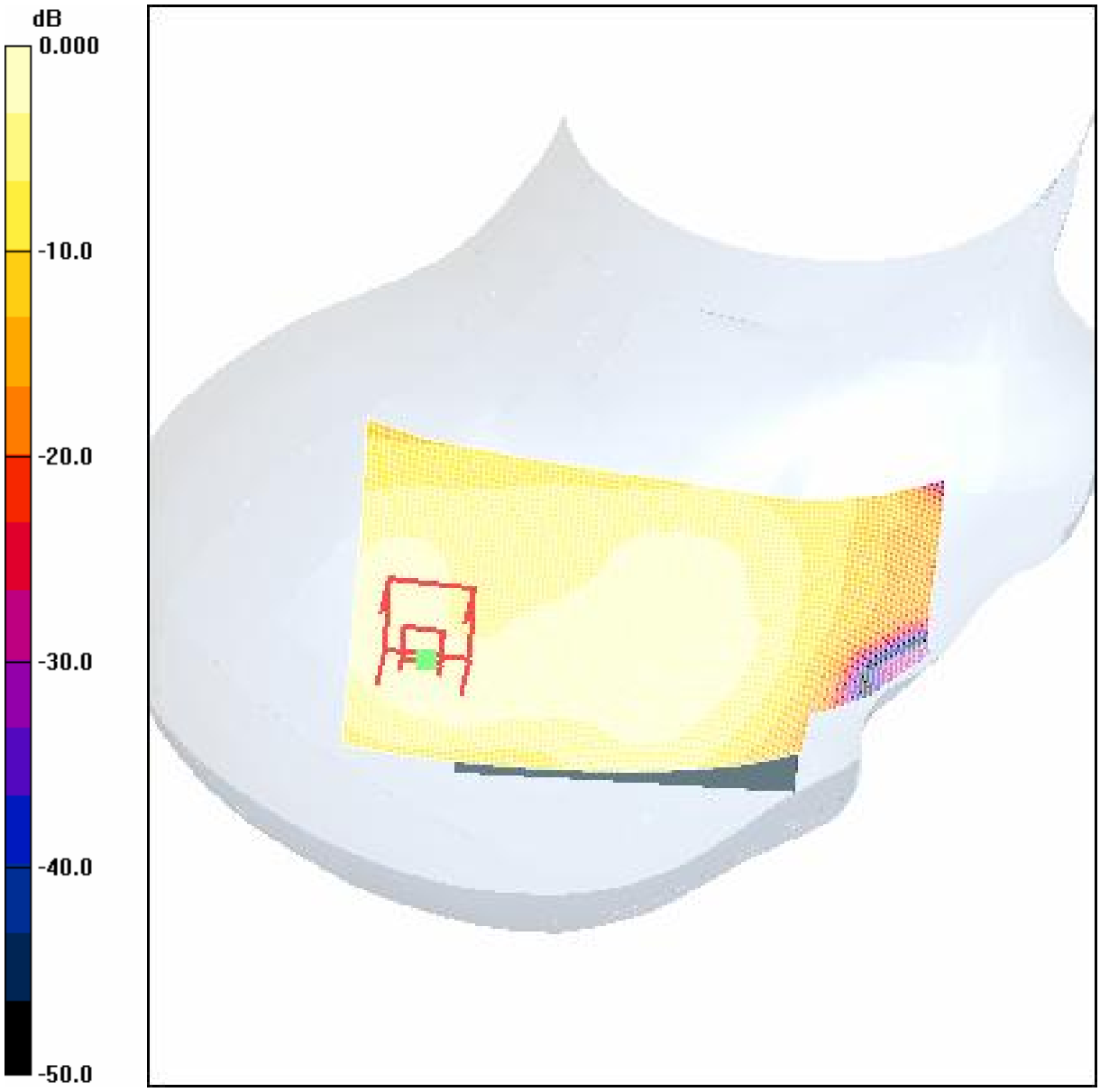
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM1900-GSM Mode; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.47 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 4.14 V/m; Power Drift = 0.138 dB
Motorola Fast SAR: SAR(1 g) = 0.035 mW/g; SAR(10 g) = 0.021 mW/g
Maximum value of SAR (interpolated) = 0.040 mW/g



0 dB = 0.040mW/g

4.40 RightHandSide-Tilt-PCS1900-Low-off

Date/Time: 2006-5-26 21:55:17

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Tilt-Low-off

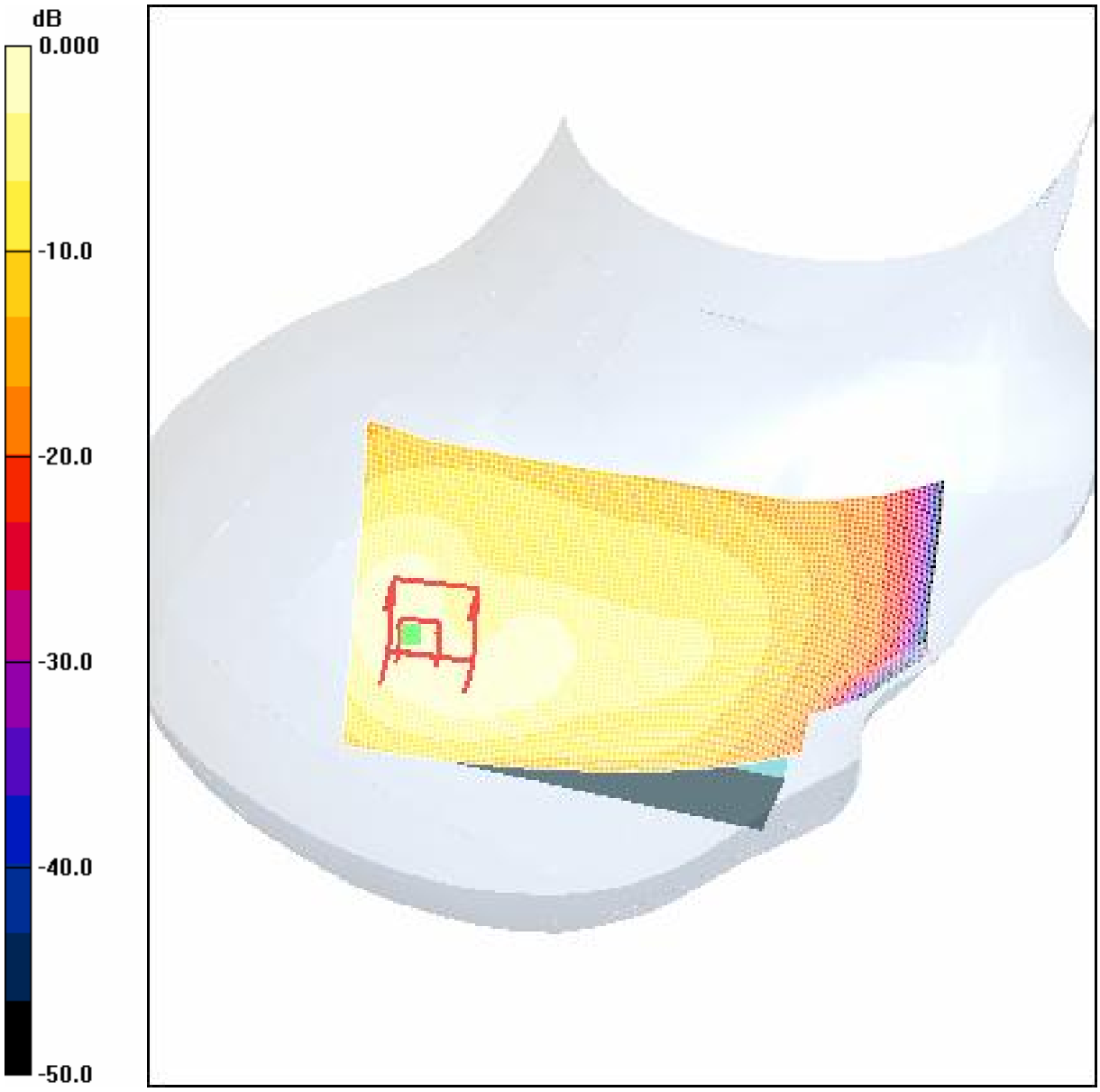
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 9.47 V/m; Power Drift = -0.046 dB
Motorola Fast SAR: SAR(1 g) = 0.159 mW/g; SAR(10 g) = 0.092 mW/g
Maximum value of SAR (interpolated) = 0.181 mW/g



0 dB = 0.181mW/g

4.41 RightHandSide-Tilt-PCS1900-Middle-off

Date/Time: 2006-5-26 22:06:47

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Tilt-Mid-off

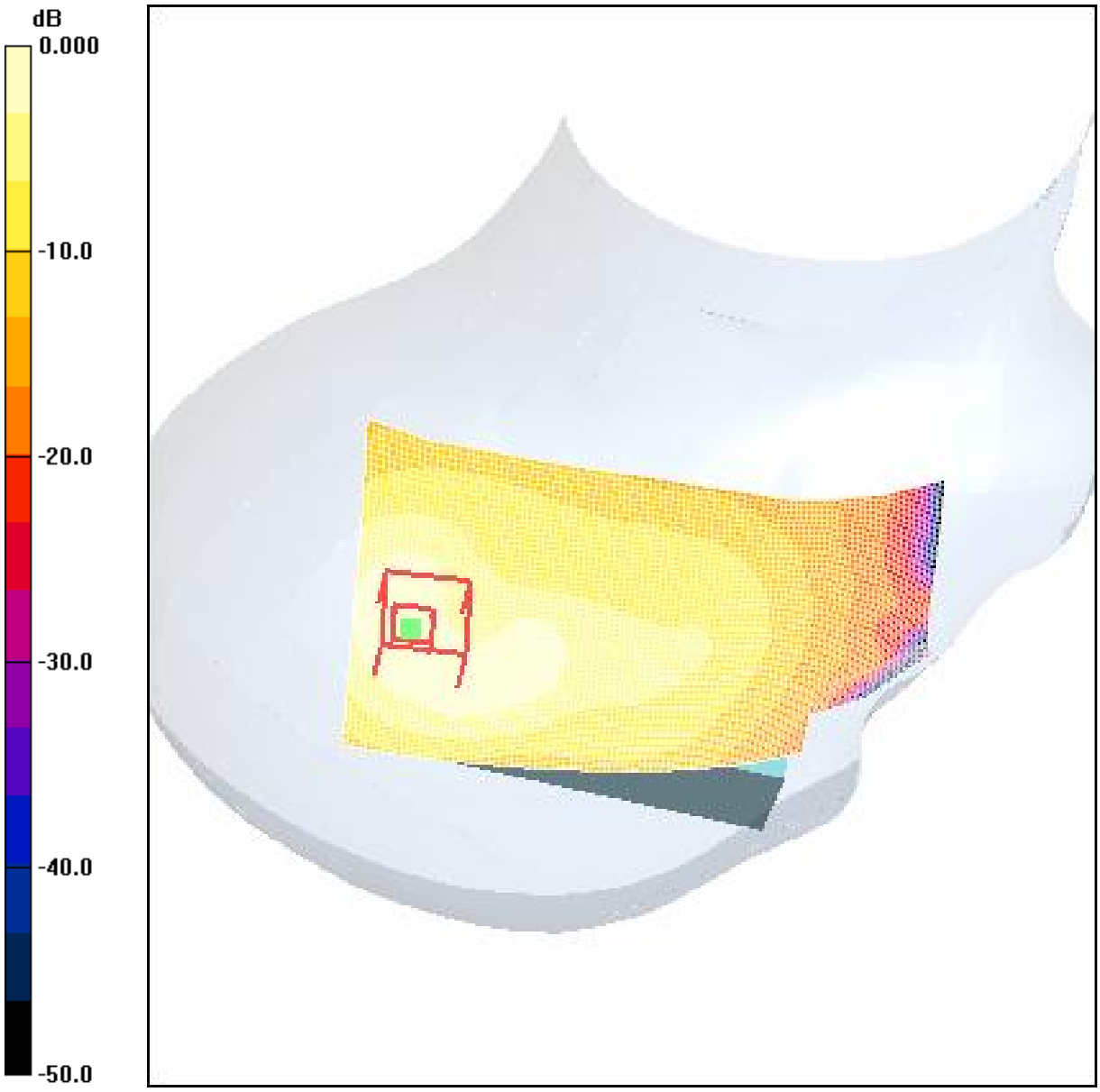
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM1900-GSM Mode; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position -Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 6.95 V/m; Power Drift = 0.043 dB
Motorola Fast SAR: SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.060 mW/g
Maximum value of SAR (interpolated) = 0.119 mW/g



0 dB = 0.119mW/g

4.42 RightHandSide-Tilt-PCS1900-High-off

Date/Time: 2006-5-26 22:18:13

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Tilt-High-off

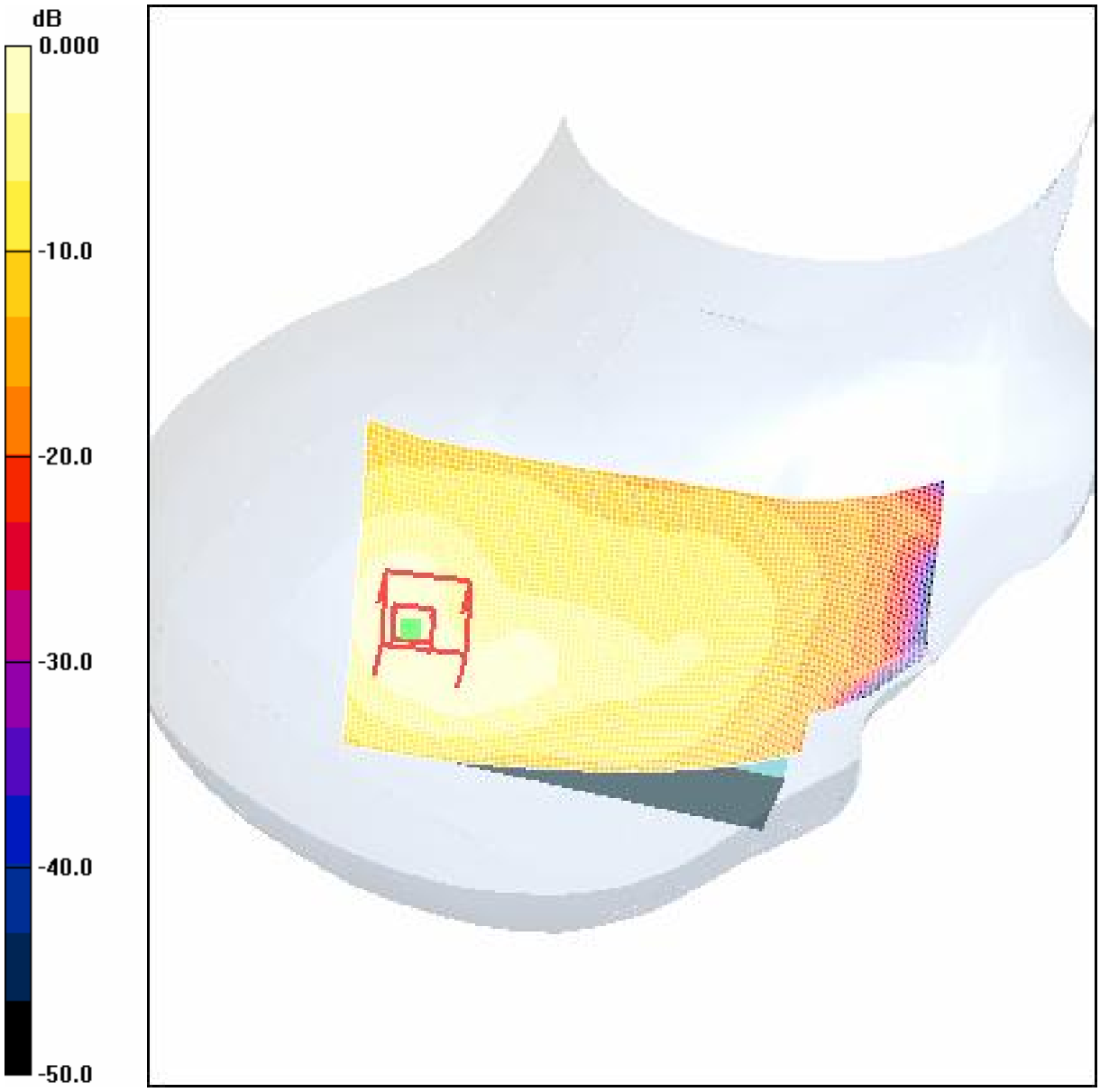
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: GSM1900-GSM Mode; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.47 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 5.10 V/m; Power Drift = 0.064 dB
Motorola Fast SAR: SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.038 mW/g
Maximum value of SAR (interpolated) = 0.076 mW/g



0 dB = 0.076mW/g

RightHandSide-Tilt-PCS1900-Low-off (Maximum Value)

Date/Time: 2006-5-26 22:40:40

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Tilt-Low-off(conventional)

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

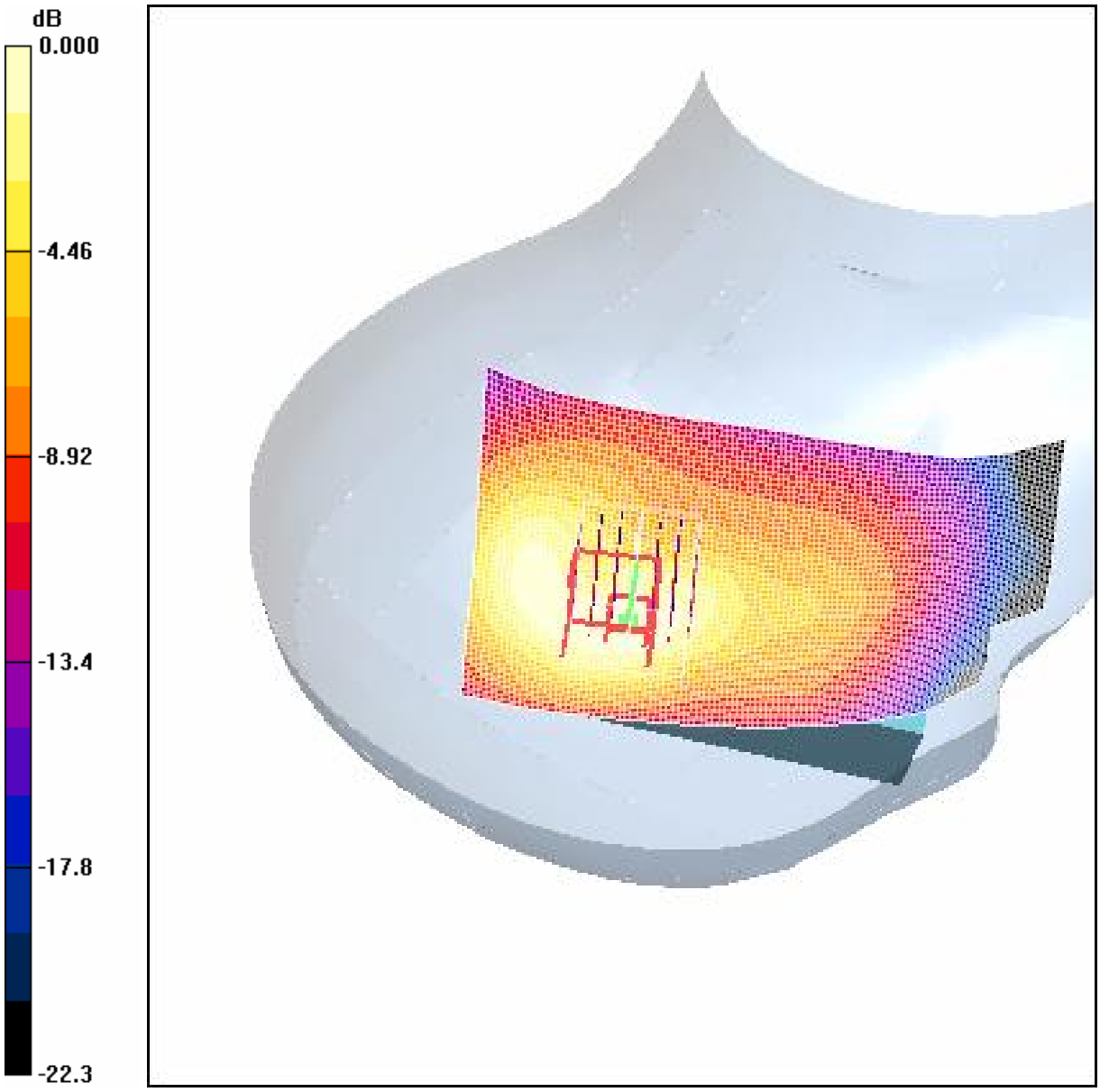
Communication System: GSM1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Traditional Method/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.192 mW/g

Maximum Position - Traditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.58 V/m; Power Drift = -0.017 dB
Peak SAR (extrapolated) = 0.319 W/kg
SAR(1 g) = 0.163 mW/g; SAR(10 g) = 0.086 mW/g
Maximum value of SAR (measured) = 0.180 mW/g



0 dB = 0.180mW/g

4.43 Body-Worn-PCS1900-Low-off

Date/Time: 2006-5-29 13:24:41

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-Low-off

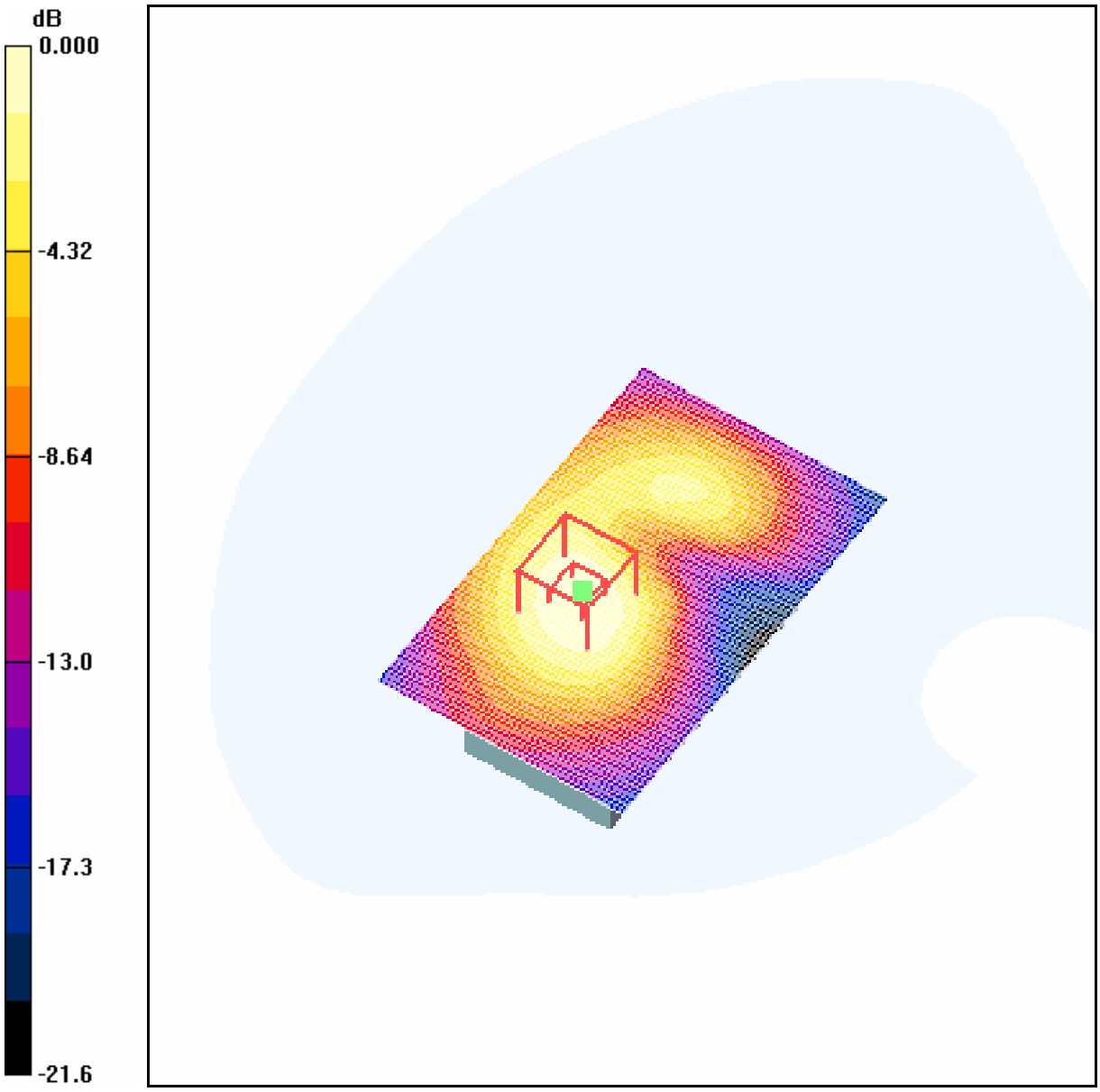
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900-Body Medium parameters used: f = 1850.2 MHz; σ = 1.49 mho/m; ε_r = 51.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.53, 4.53, 4.53); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - Low/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 14.2 V/m; Power Drift = 0.030 dB
Motorola Fast SAR: SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.298 mW/g
Maximum value of SAR (interpolated) = 0.571 mW/g



0 dB = 0.571mW/g

4.44 Body-Worn-PCS1900-Middle-off

Date/Time: 2006-5-29 13:08:12

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-Mid-off

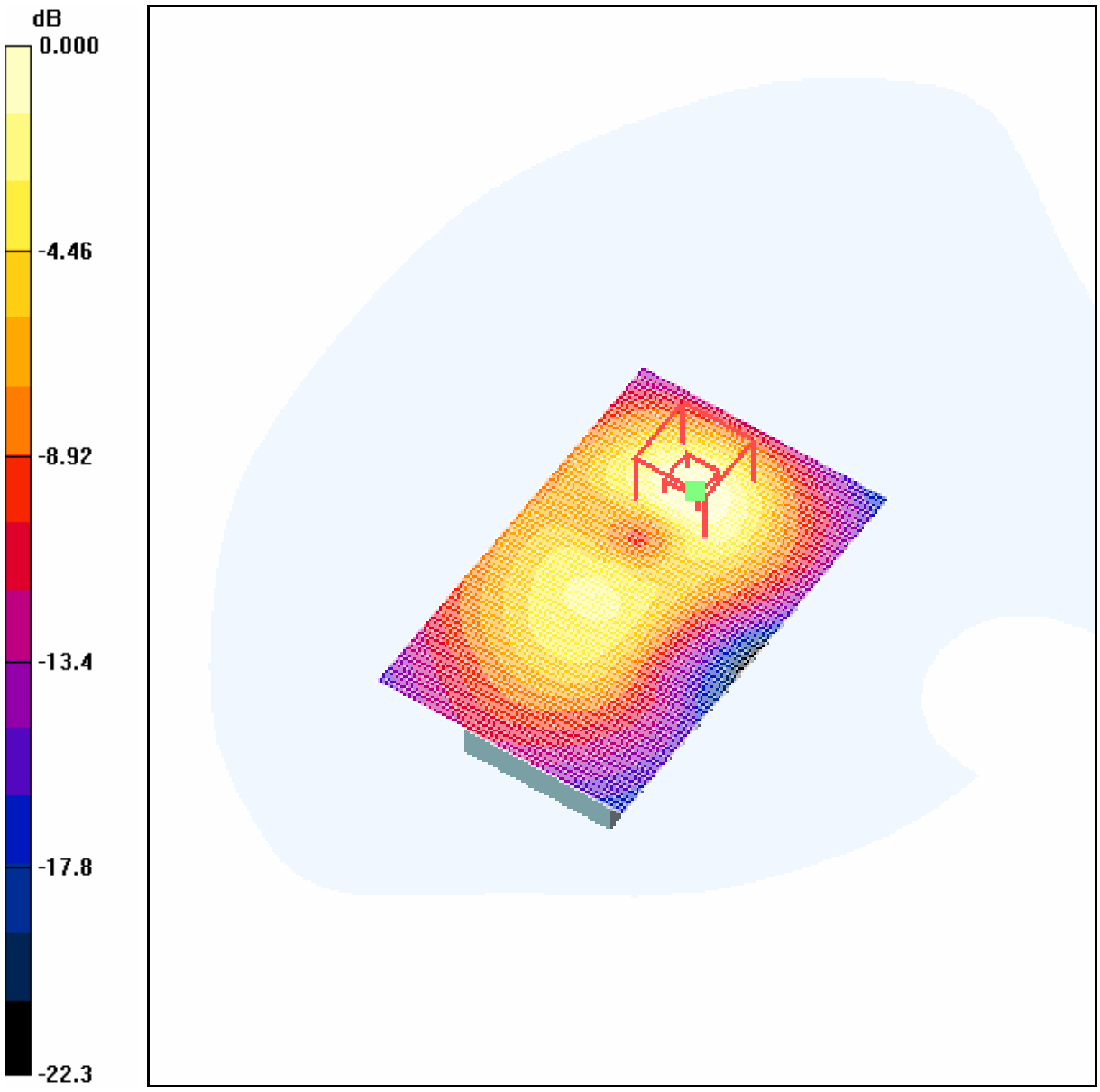
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900-Body Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 51.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.53, 4.53, 4.53); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - Middle/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 18.2 V/m; Power Drift = -0.023 dB
Motorola Fast SAR: SAR(1 g) = 0.434 mW/g; SAR(10 g) = 0.228 mW/g
Maximum value of SAR (interpolated) = 0.523 mW/g



0 dB = 0.523mW/g

4.45 Body-Worn-PCS1900-High-off

Date/Time: 2006-5-29 13:15:18

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-High-off

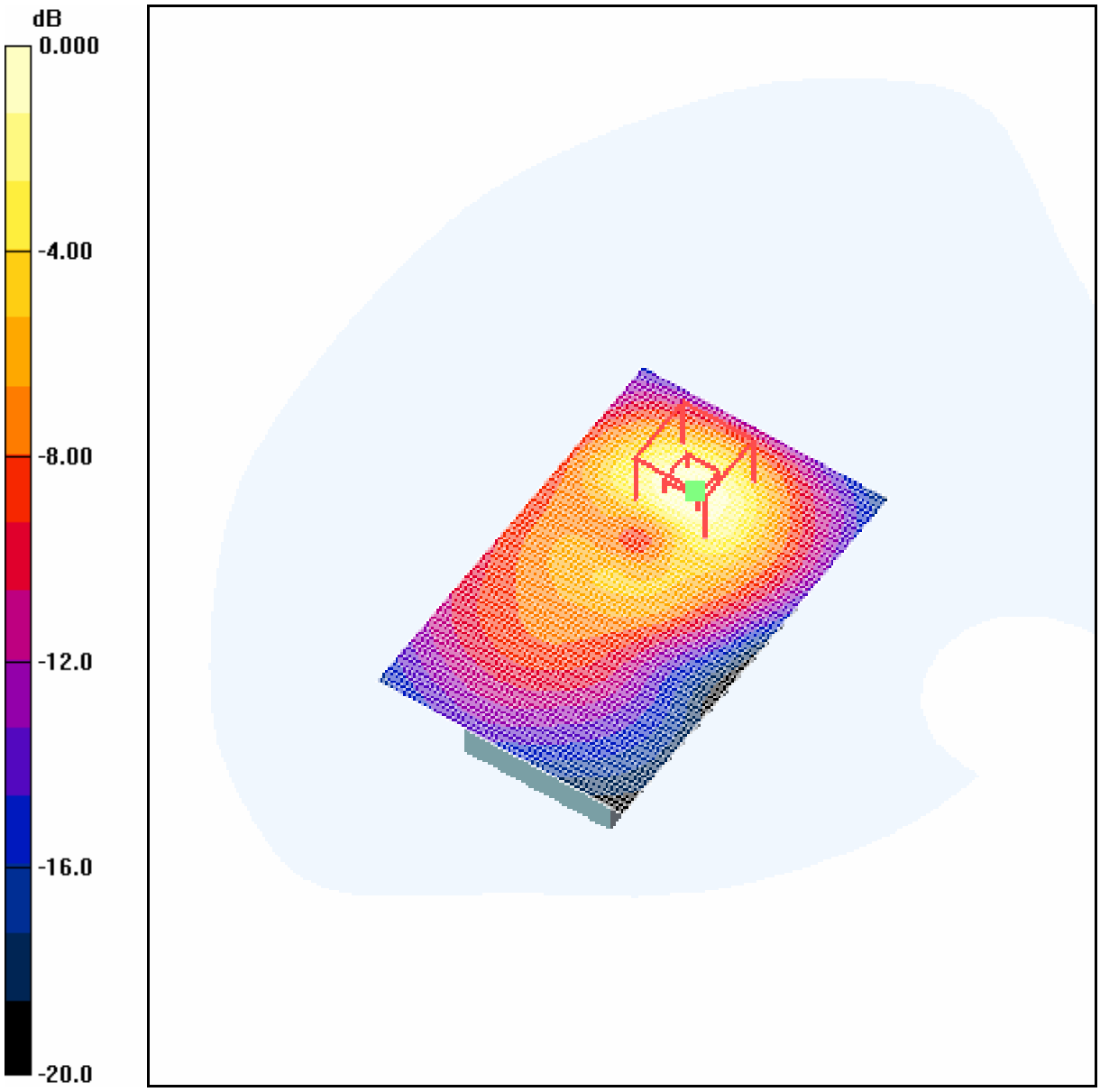
DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900-Body Medium parameters used: f = 1909.8 MHz; σ = 1.55 mho/m; ε_r = 51.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.53, 4.53, 4.53); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - High/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 18.3 V/m; Power Drift = 0.007 dB
Motorola Fast SAR: SAR(1 g) = 0.463 mW/g; SAR(10 g) = 0.242 mW/g
Maximum value of SAR (interpolated) = 0.553 mW/g



0 dB = 0.553mW/g

Body-Worn-PCS1900-Low-off (Maximum Value)

Date/Time: 2006-5-29 13:35:41

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-Low-Off(conventioal)

DUT: GSM10000064D-OFF; Type: Body; Serial: 20060525

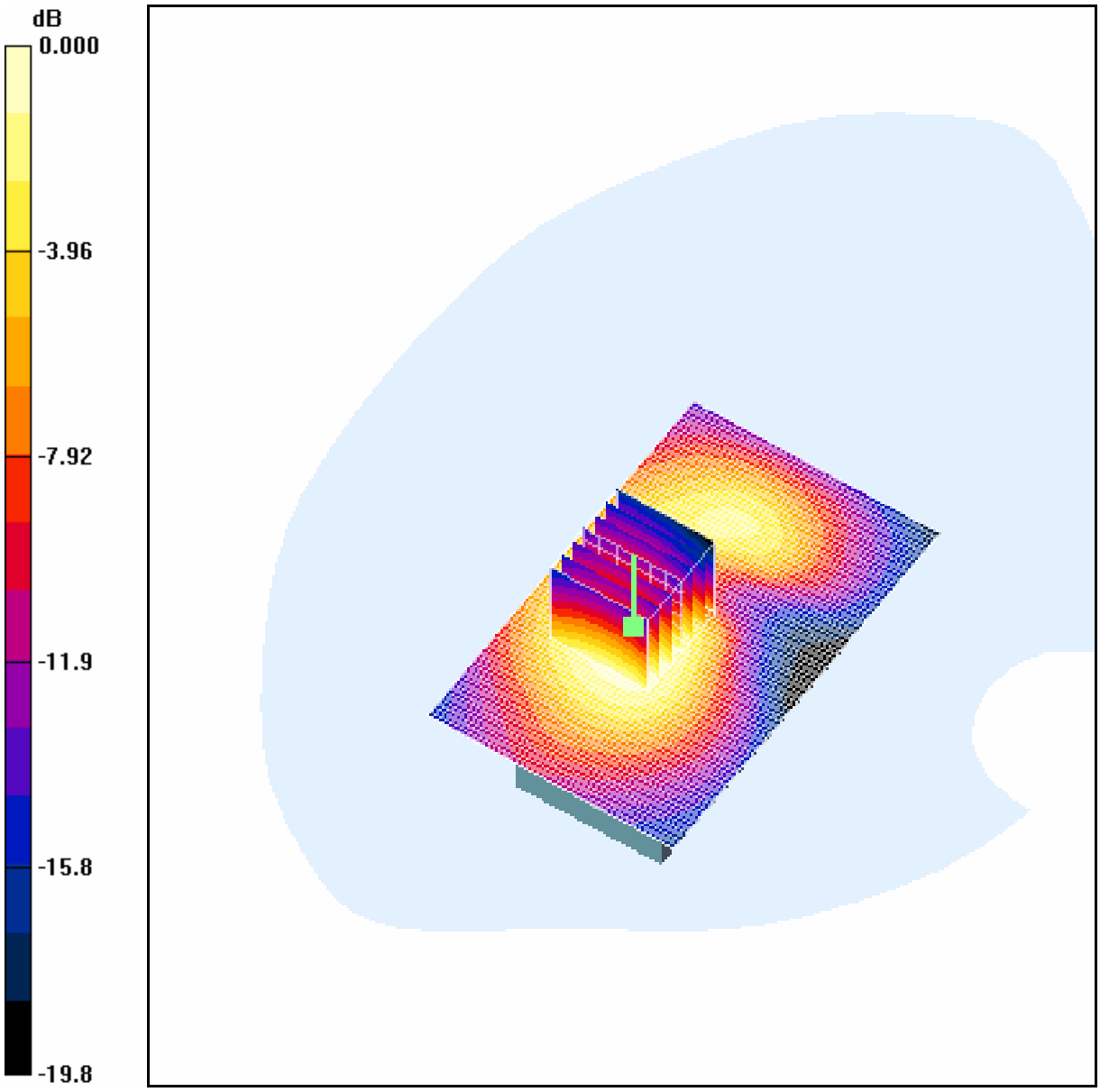
Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900-Body Medium parameters used: f = 1850.2 MHz; σ = 1.49 mho/m; ε_r = 51.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.53, 4.53, 4.53); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Taditional Method/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.576 mW/g

Maximum Position - Taditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.3 V/m; Power Drift = 0.025 dB
Peak SAR (extrapolated) = 0.758 W/kg
SAR(1 g) = 0.493 mW/g; SAR(10 g) = 0.294 mW/g
Maximum value of SAR (measured) = 0.535 mW/g



0 dB = 0.535mW/g

4.46 LeftHandSide-Cheek-PCS1900-Low-on

Date/Time: 2006-5-27 11:45:38

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Cheek-Low-on

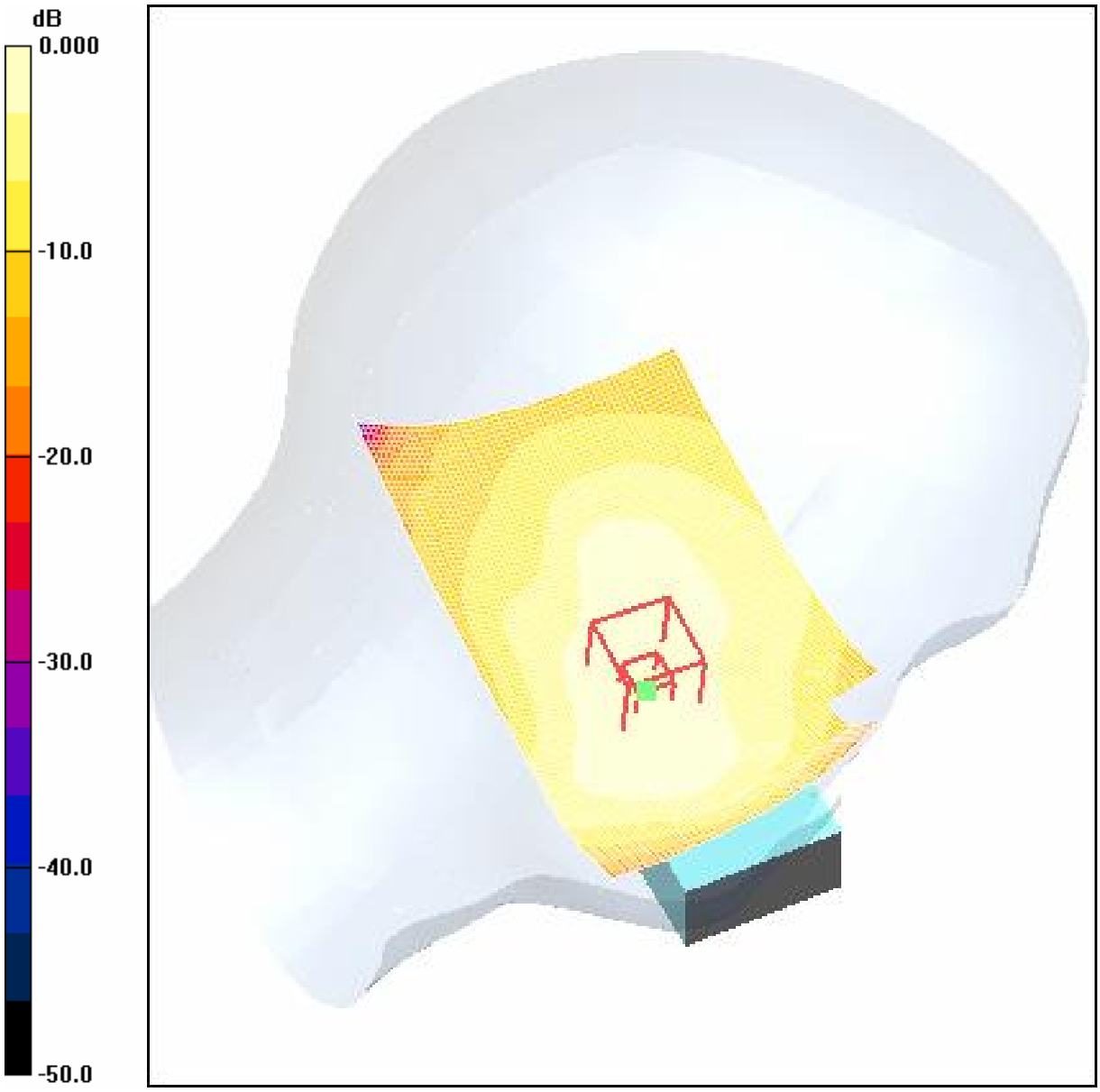
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 6.45 V/m; Power Drift = -0.183 dB
Motorola Fast SAR: SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.053 mW/g
Maximum value of SAR (interpolated) = 0.099 mW/g



0 dB = 0.099mW/g

4.47 LeftHandSide-Cheek-PCS1900-Middle-on

Date/Time: 2006-5-27 11:57:46

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Cheek-Mid-on

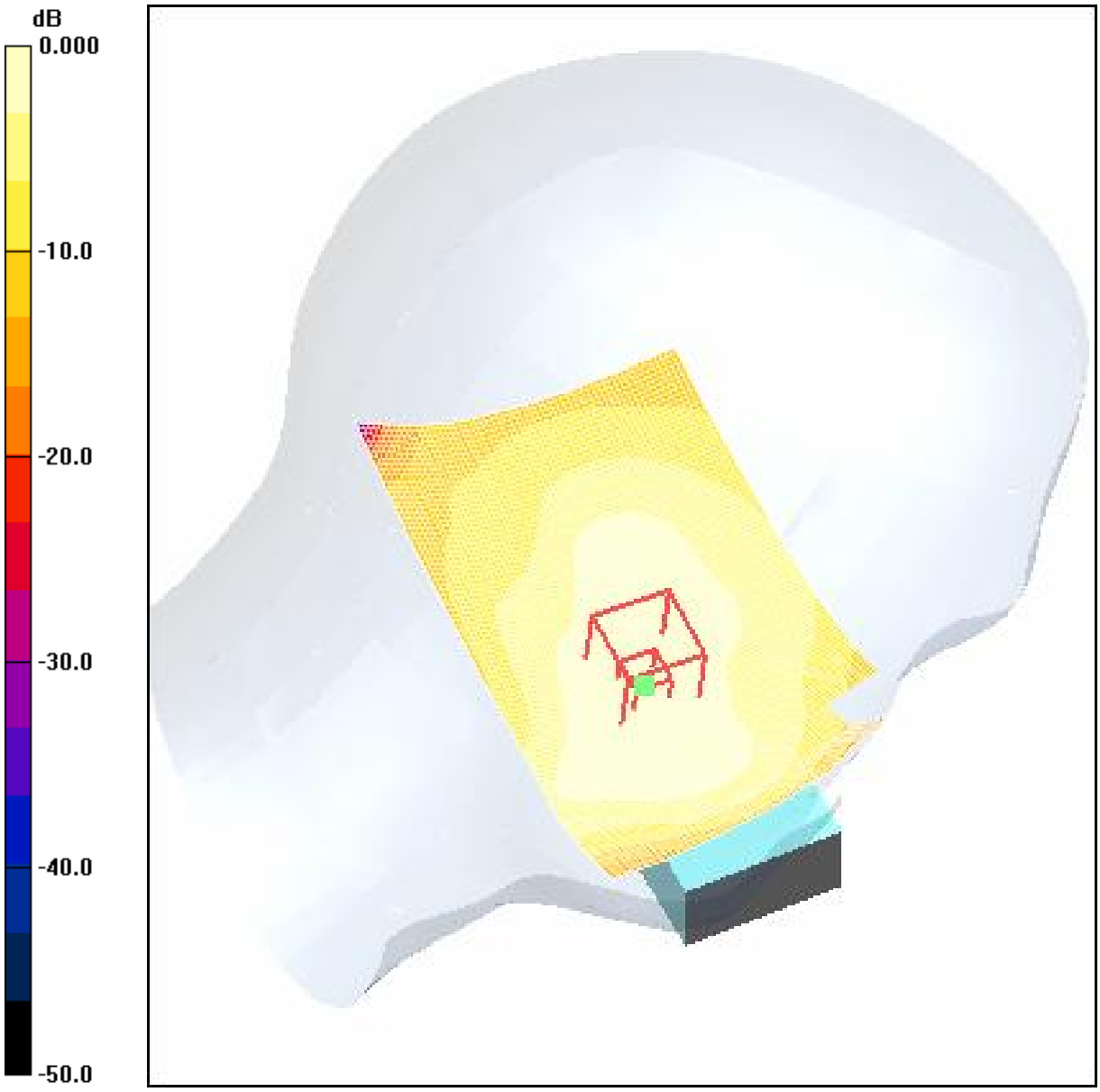
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 5.41 V/m; Power Drift = 0.084 dB
Motorola Fast SAR: SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.036 mW/g
Maximum value of SAR (interpolated) = 0.066 mW/g



0 dB = 0.066mW/g

4.48 LeftHandSide-Cheek-PCS1900-High-on

Date/Time: 2006-5-27 12:17:50

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Cheek-High-on

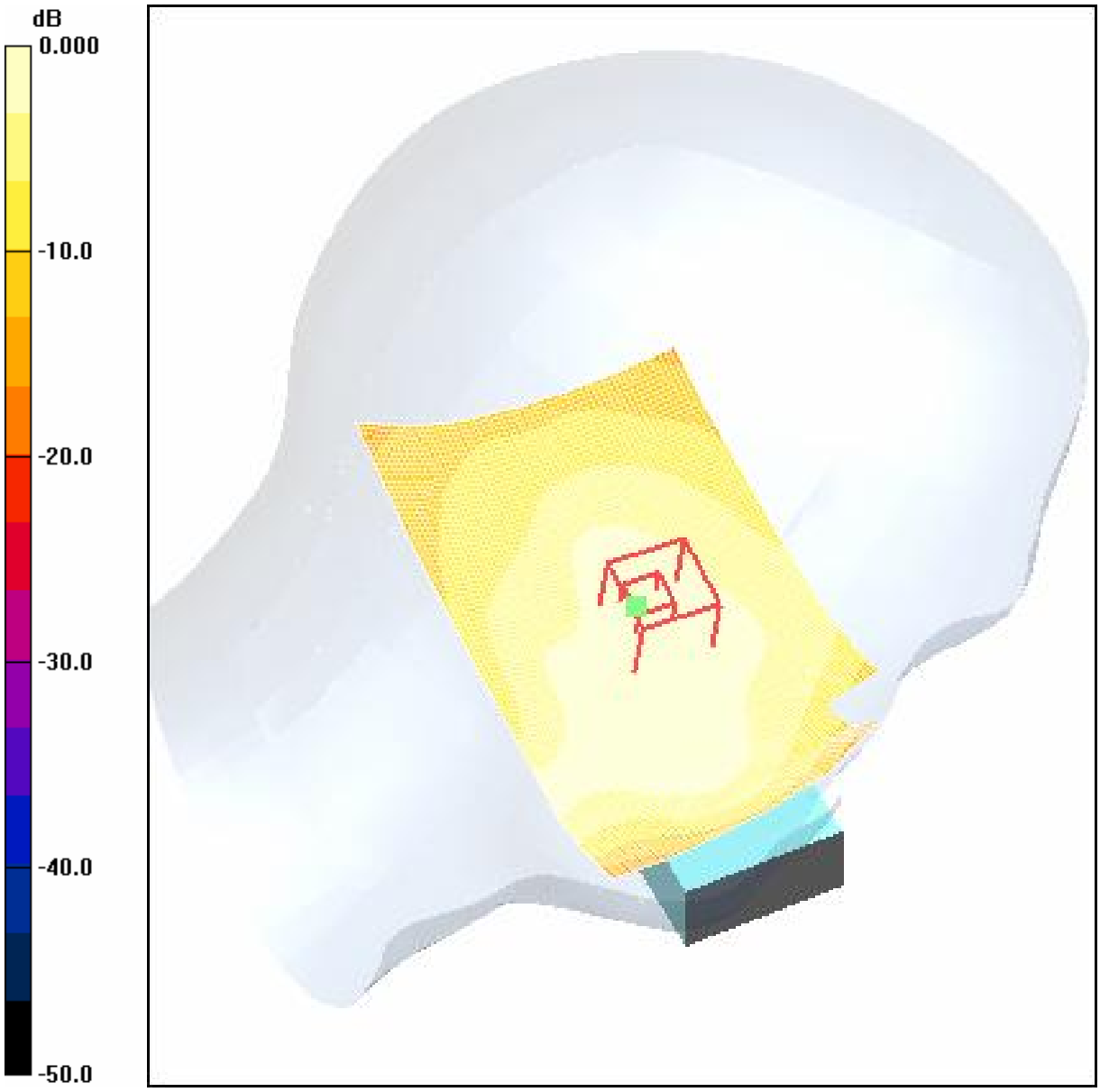
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.47 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 4.31 V/m; Power Drift = 0.082 dB
Motorola Fast SAR: SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.024 mW/g
Maximum value of SAR (interpolated) = 0.044 mW/g



0 dB = 0.044mW/g

4.49 LeftHandSide-Tilt-PCS1900-Low-on

Date/Time: 2006-5-27 12:30:24

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Tilt-Low-on

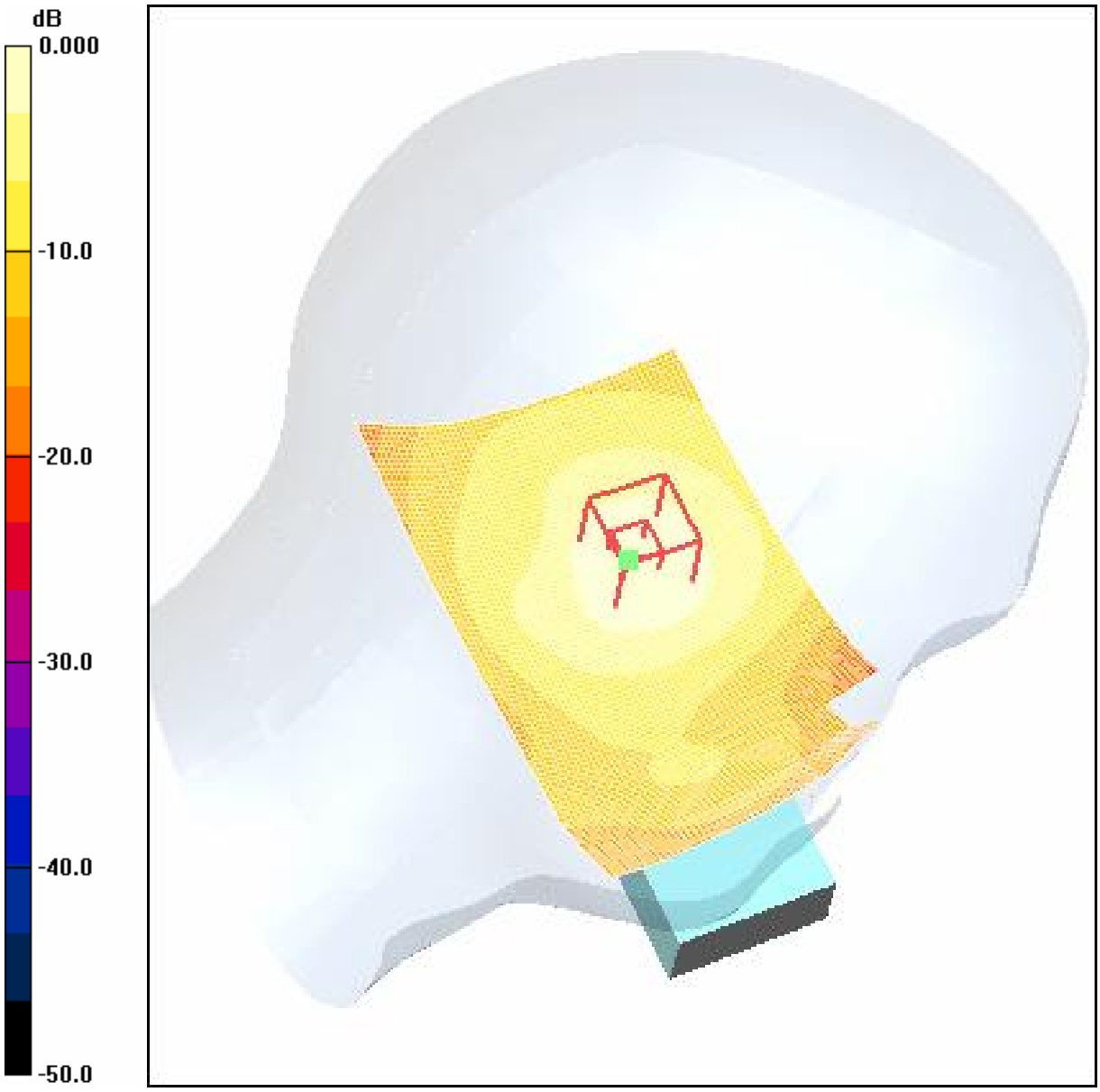
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 8.21 V/m; Power Drift = -0.001 dB
Motorola Fast SAR: SAR(1 g) = 0.105 mW/g; SAR(10 g) = 0.061 mW/g
Maximum value of SAR (interpolated) = 0.119 mW/g



0 dB = 0.119mW/g

4.50 LeftHandSide-Tilt-PCS1900-Middle-on

Date/Time: 2006-5-27 12:42:16

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Tilt-Mid-on

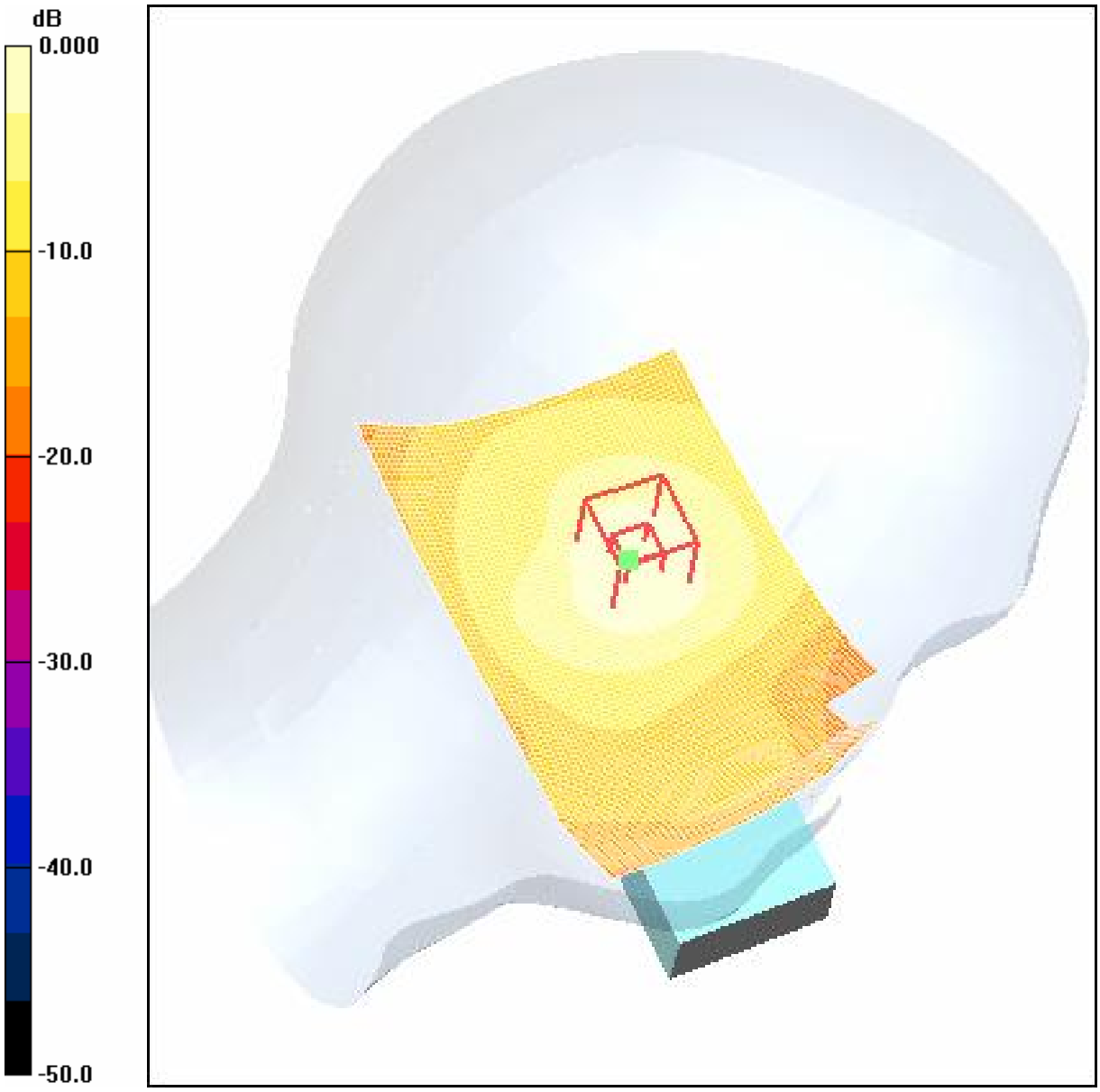
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position -Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 7.43 V/m; Power Drift = -0.048 dB
Motorola Fast SAR: SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.051 mW/g
Maximum value of SAR (interpolated) = 0.101 mW/g



0 dB = 0.101mW/g

4.51 LeftHandSide-Tilt-PCS1900-High-on

Date/Time: 2006-5-27 12:58:18

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Tilt-High-on

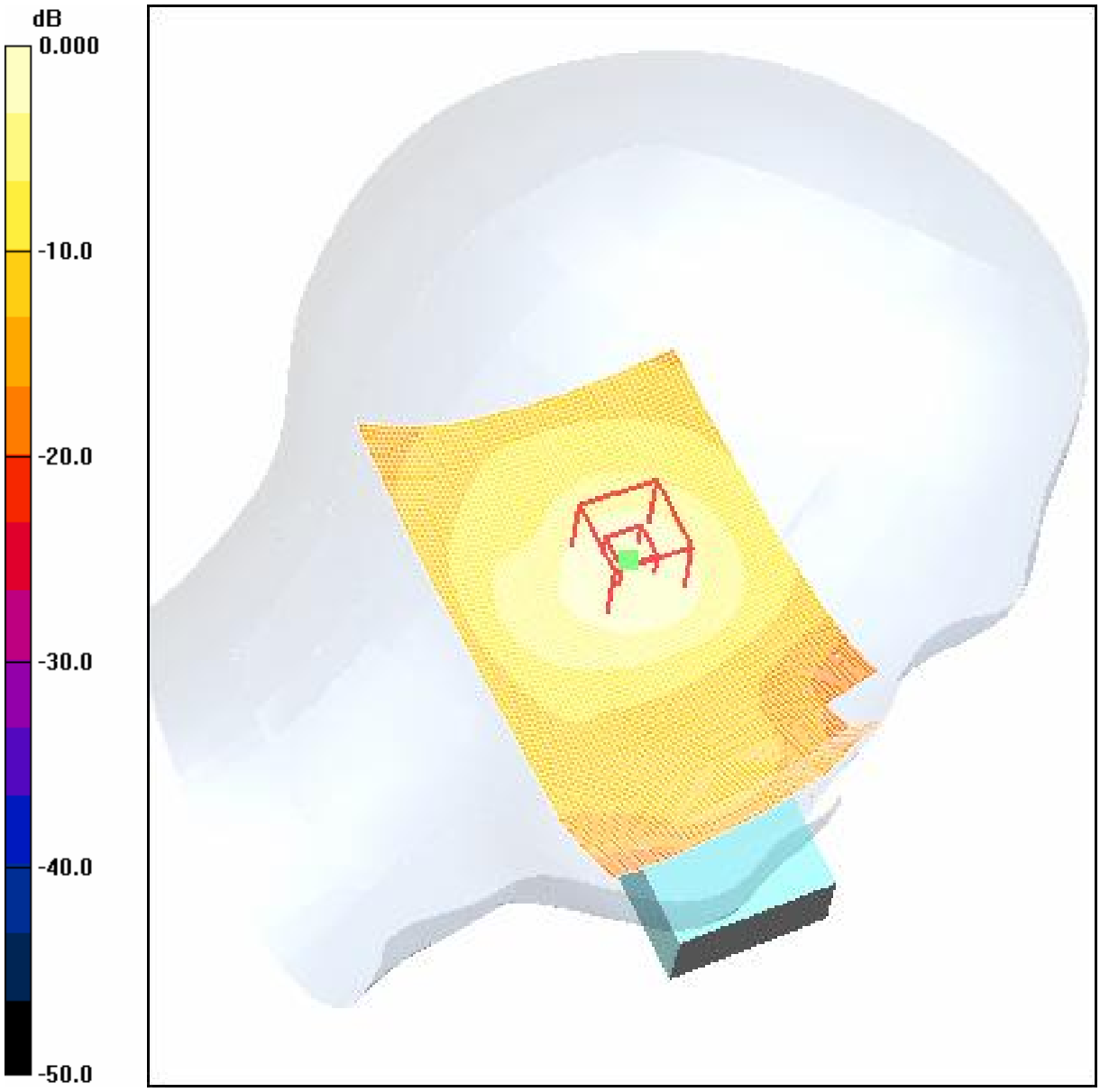
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.47 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 6.43 V/m; Power Drift = 0.013 dB
Motorola Fast SAR: SAR(1 g) = 0.065 mW/g; SAR(10 g) = 0.037 mW/g
Maximum value of SAR (interpolated) = 0.074 mW/g



0 dB = 0.074mW/g

LeftHandSide-Tilt-PCS1900-Low-on (Maximum Value)

Date/Time: 2006-5-27 16:44:45

Test Laboratory: SGS-GSM

PCS1900-LeftHandSide-Tilt-Low-on(conventional)

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

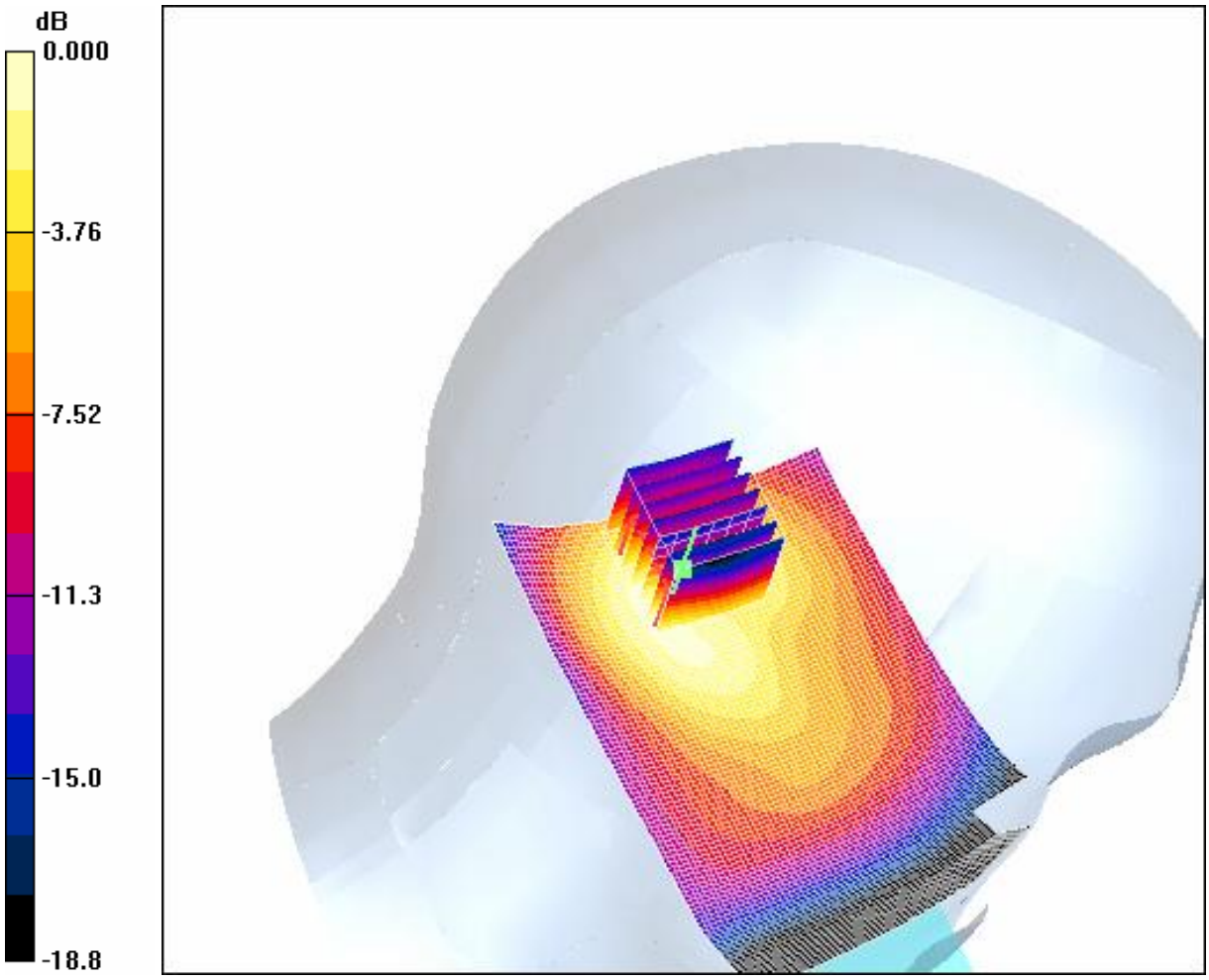
Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Left Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Traditional Method/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.164 mW/g

Maximum Position - Traditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.53 V/m; Power Drift = 0.006 dB
Peak SAR (extrapolated) = 0.271 W/kg
SAR(1 g) = 0.160 mW/g; SAR(10 g) = 0.090 mW/g
Maximum value of SAR (measured) = 0.176 mW/g



0 dB = 0.176mW/g

4.52 RightHandSide-Cheek-PCS1900-Low-on

Date/Time: 2006-5-26 23:32:15

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-Low-on

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3

Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

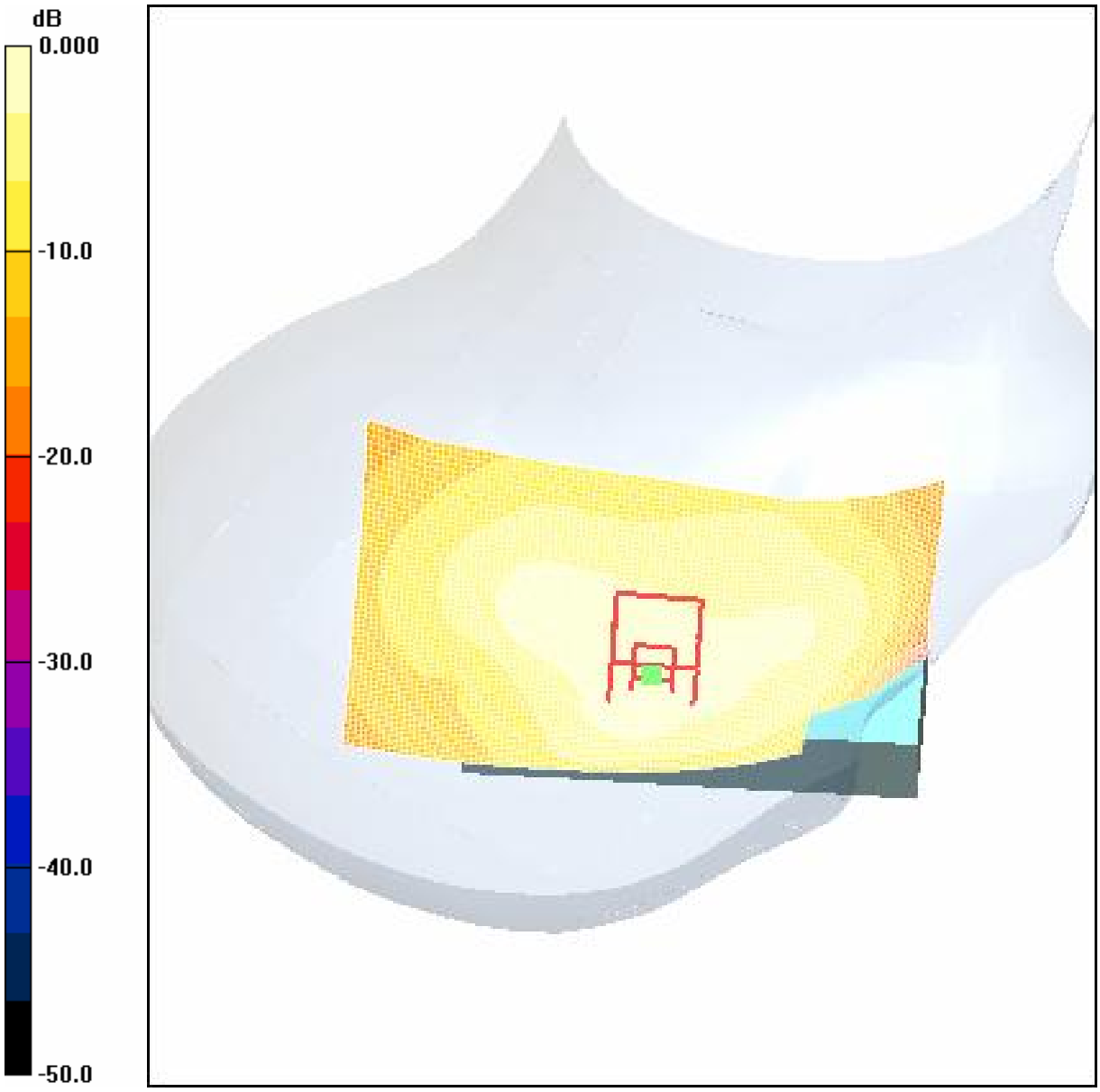
- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Low/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.46 V/m; Power Drift = -0.007 dB

Motorola Fast SAR: SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.060 mW/g

Maximum value of SAR (interpolated) = 0.112 mW/g



0 dB = 0.112mW/g

4.53 RightHandSide-Cheek-PCS1900-Middle-on

Date/Time: 2006-5-26 23:45:18

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-Mid-on

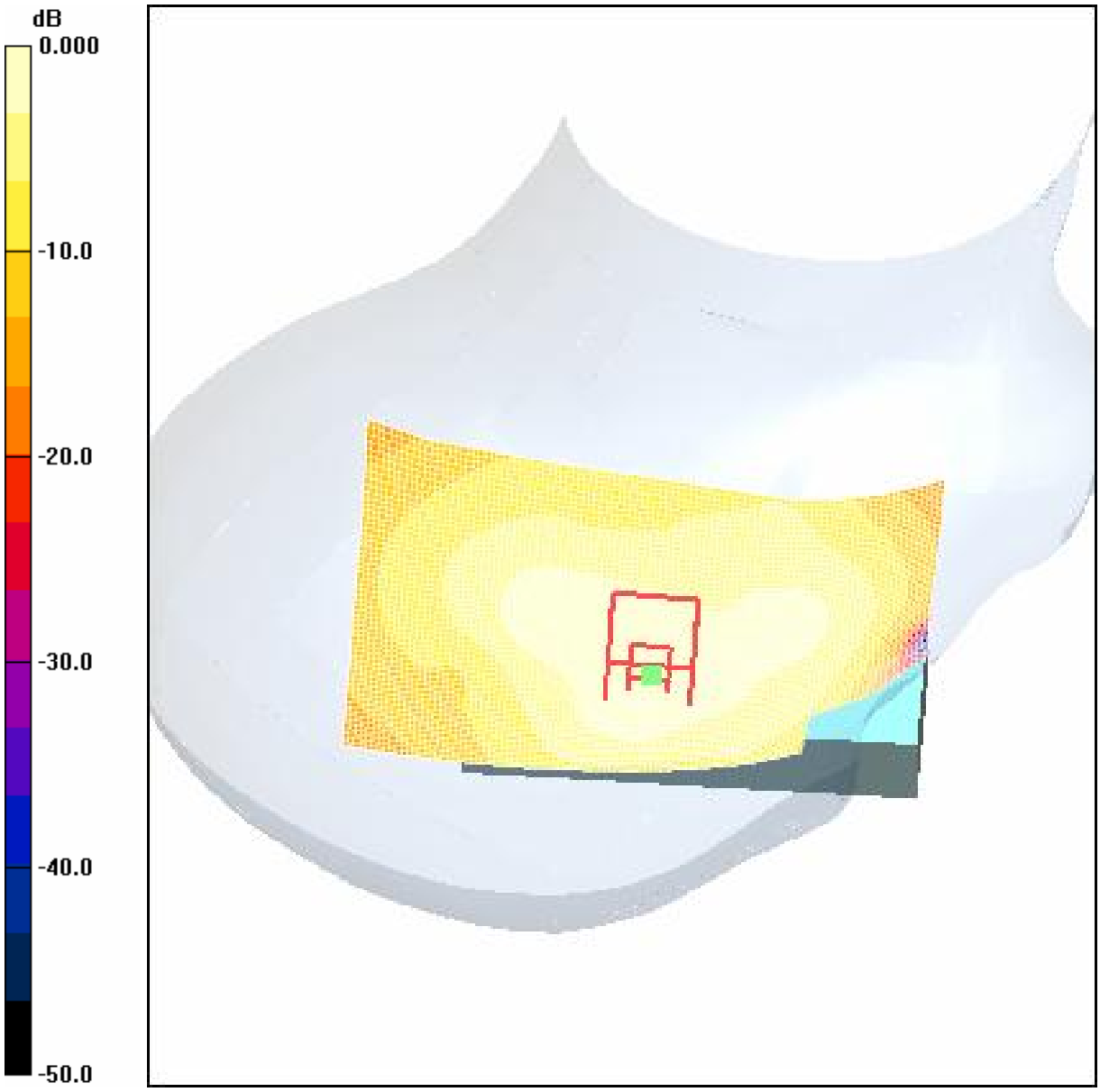
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 6.22 V/m; Power Drift = 0.114 dB
Motorola Fast SAR: SAR(1 g) = 0.073 mW/g; SAR(10 g) = 0.043 mW/g
Maximum value of SAR (interpolated) = 0.081 mW/g



0 dB = 0.081mW/g

4.54 RightHandSide-Cheek-PCS1900-High-on

Date/Time: 2006-5-26 23:56:41

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-High-on

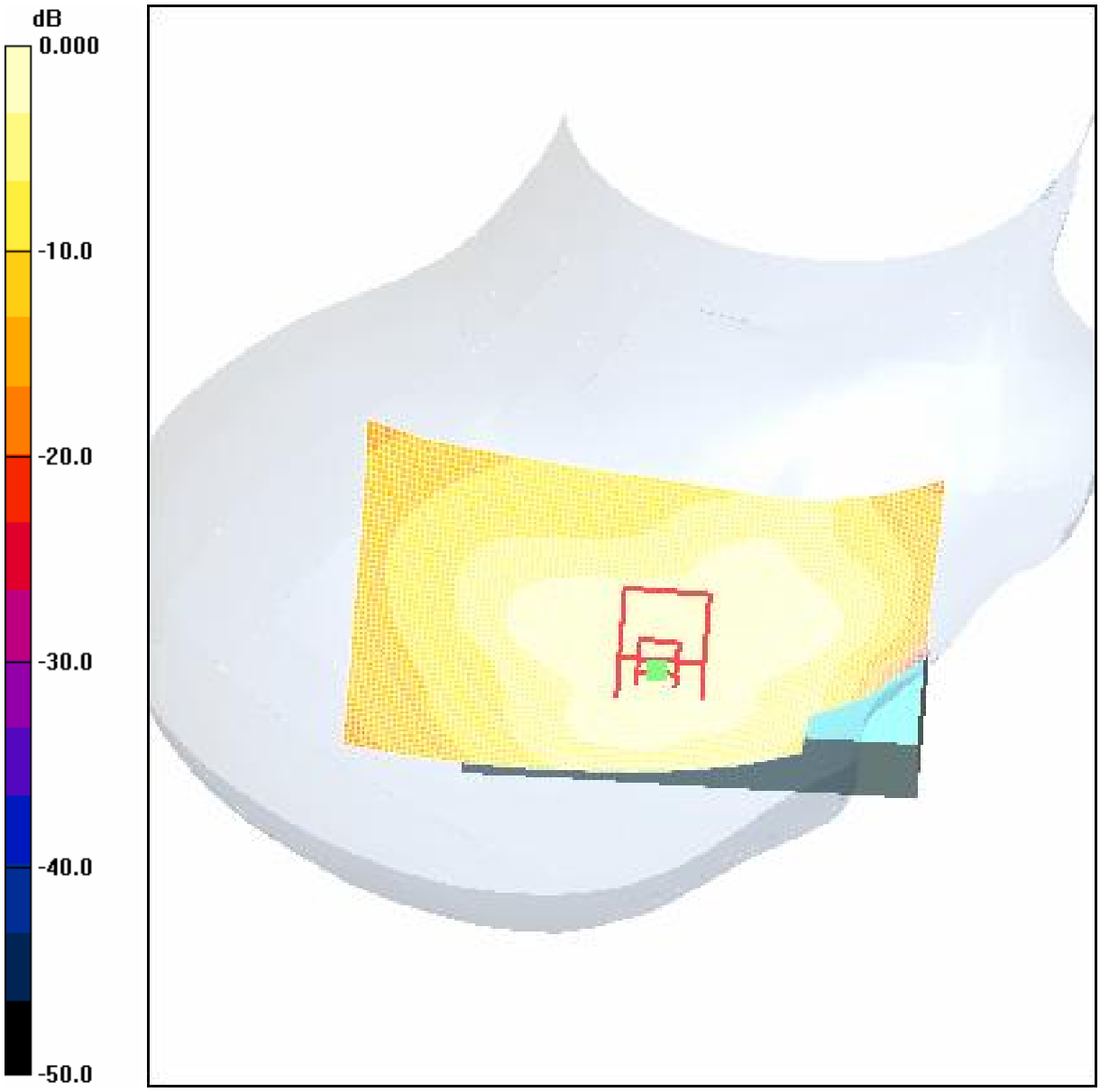
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.47 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Cheek Position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 4.61 V/m; Power Drift = 0.072 dB
Motorola Fast SAR: SAR(1 g) = 0.042 mW/g; SAR(10 g) = 0.026 mW/g
Maximum value of SAR (interpolated) = 0.046 mW/g



0 dB = 0.046mW/g

4.55 RightHandSide-Tilt-PCS1900-Low-on

Date/Time: 2006-5-27 10:34:52

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Tilt-Low-on

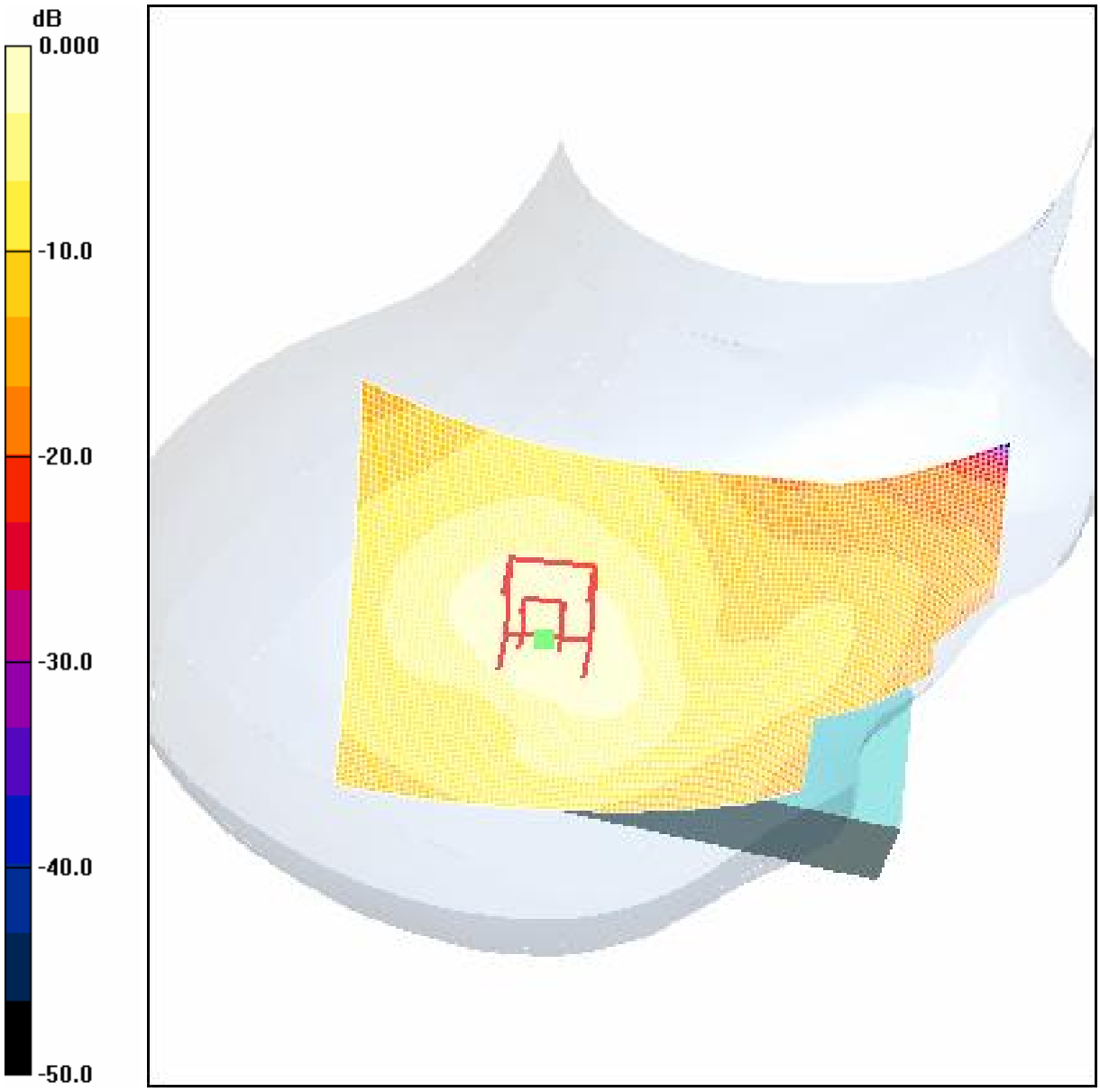
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position - Low/Area Scan (71x111x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 8.28 V/m; Power Drift = -0.023 dB
Motorola Fast SAR: SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.054 mW/g
Maximum value of SAR (interpolated) = 0.101 mW/g



0 dB = 0.101mW/g

4.56 RightHandSide-Tilt-PCS1900-Middle-on

Date/Time: 2006-5-27 10:15:13

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Tilt-Mid-on

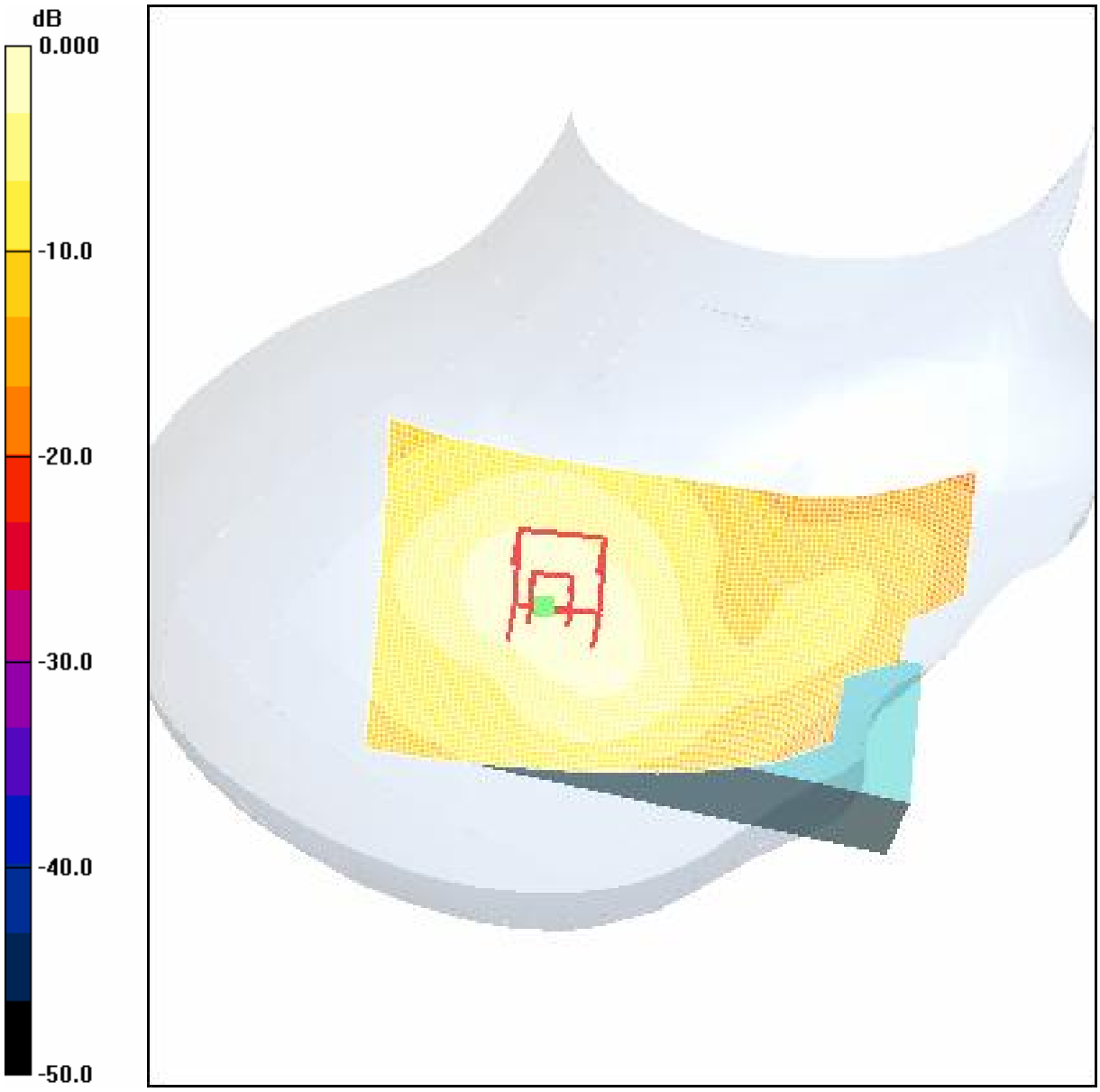
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1880 MHz; σ = 1.44 mho/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position -Middle/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 7.60 V/m; Power Drift = 0.017 dB
Motorola Fast SAR: SAR(1 g) = 0.079 mW/g; SAR(10 g) = 0.047 mW/g
Maximum value of SAR (interpolated) = 0.088 mW/g



0 dB = 0.088mW/g

4.57 RightHandSide-Tilt-PCS1900-High-on

Date/Time: 2006-5-27 10:51:10

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Tilt-High-on

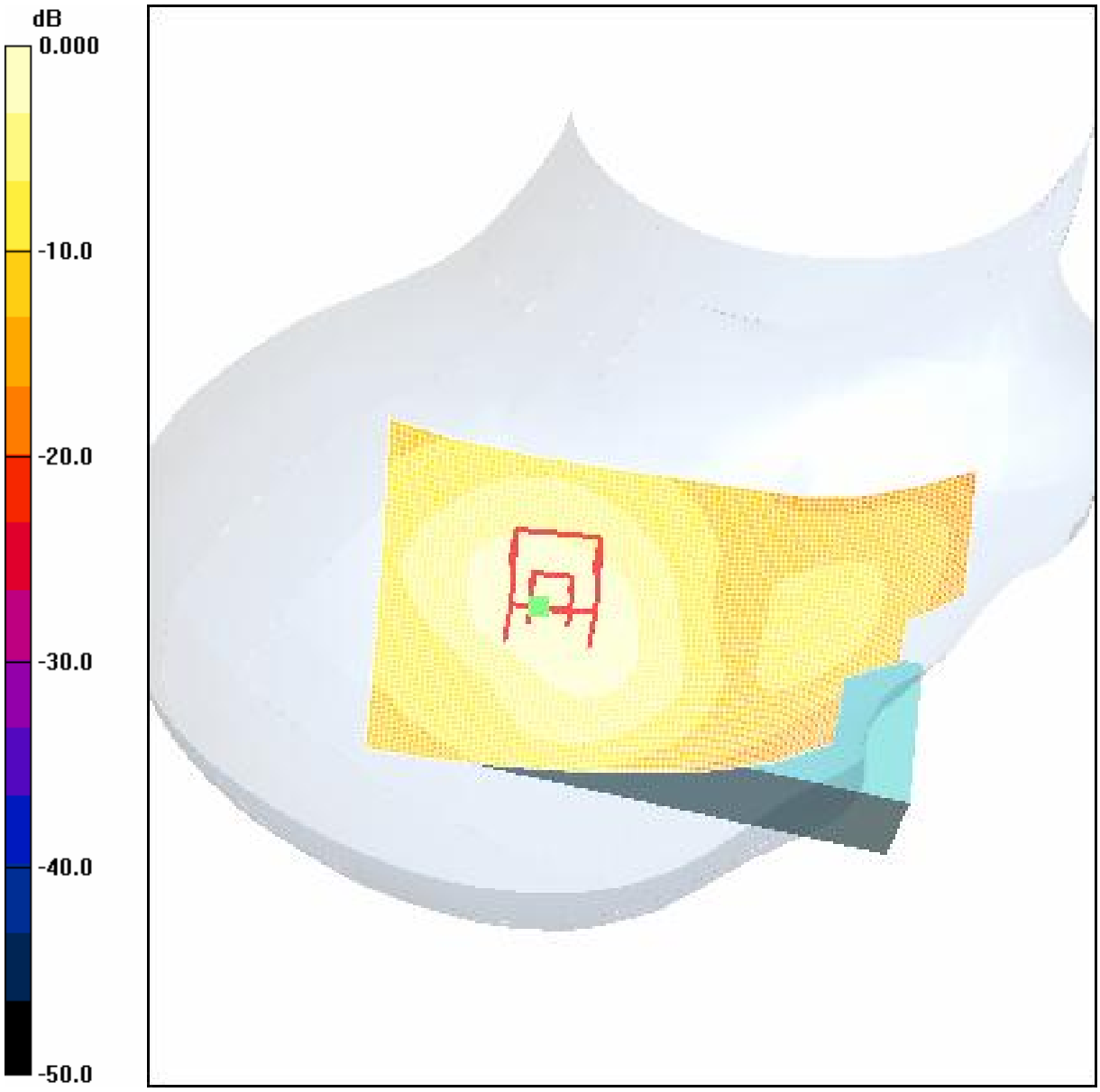
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1909.8 MHz; σ = 1.47 mho/m; ε_r = 40; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Tilt position - High/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 6.20 V/m; Power Drift = 0.045 dB
Motorola Fast SAR: SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.031 mW/g
Maximum value of SAR (interpolated) = 0.059 mW/g



0 dB = 0.059mW/g

RightHandSide-Cheek-PCS1900-Low-on (Maximum Value)

Date/Time: 2006-5-27 11:08:35

Test Laboratory: SGS-GSM

PCS1900-RightHandSide-Cheek-Low-on(conventional)

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

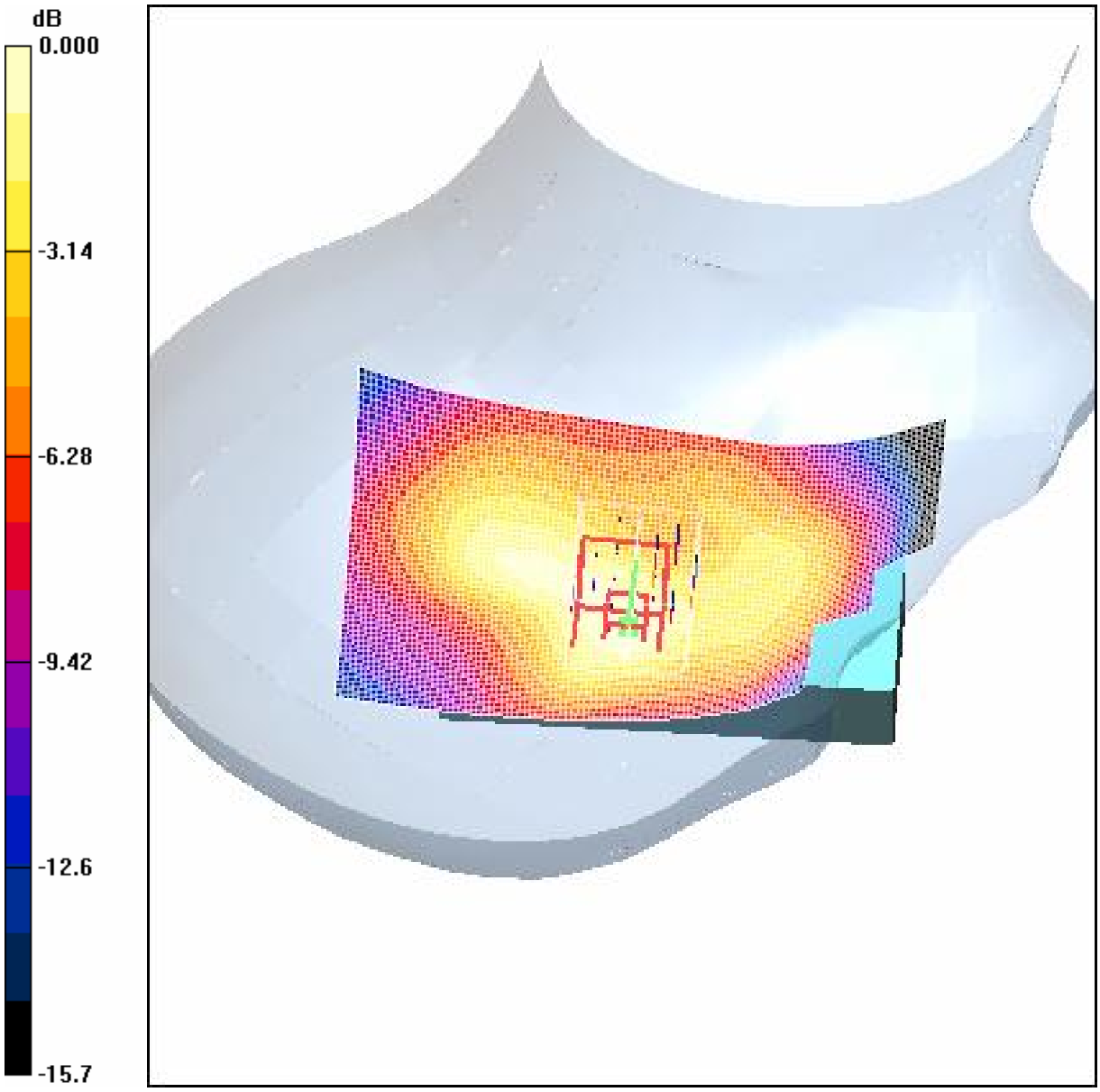
Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900 Medium parameters used: f = 1850.2 MHz; σ = 1.42 mho/m; ε_r = 40.5; ρ = 1000 kg/m^3
Phantom section: Right Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.93, 4.93, 4.93); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Maximum Position - Traditional Method/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.109 mW/g

Maximum Position - Traditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.76 V/m; Power Drift = 0.037 dB
Peak SAR (extrapolated) = 0.147 W/kg
SAR(1 g) = 0.098 mW/g; SAR(10 g) = 0.060 mW/g
Maximum value of SAR (measured) = 0.107 mW/g



0 dB = 0.107mW/g

4.58 Body-Worn-PCS1900-Low-on

Date/Time: 2006-5-29 14:00:37

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-Low-on

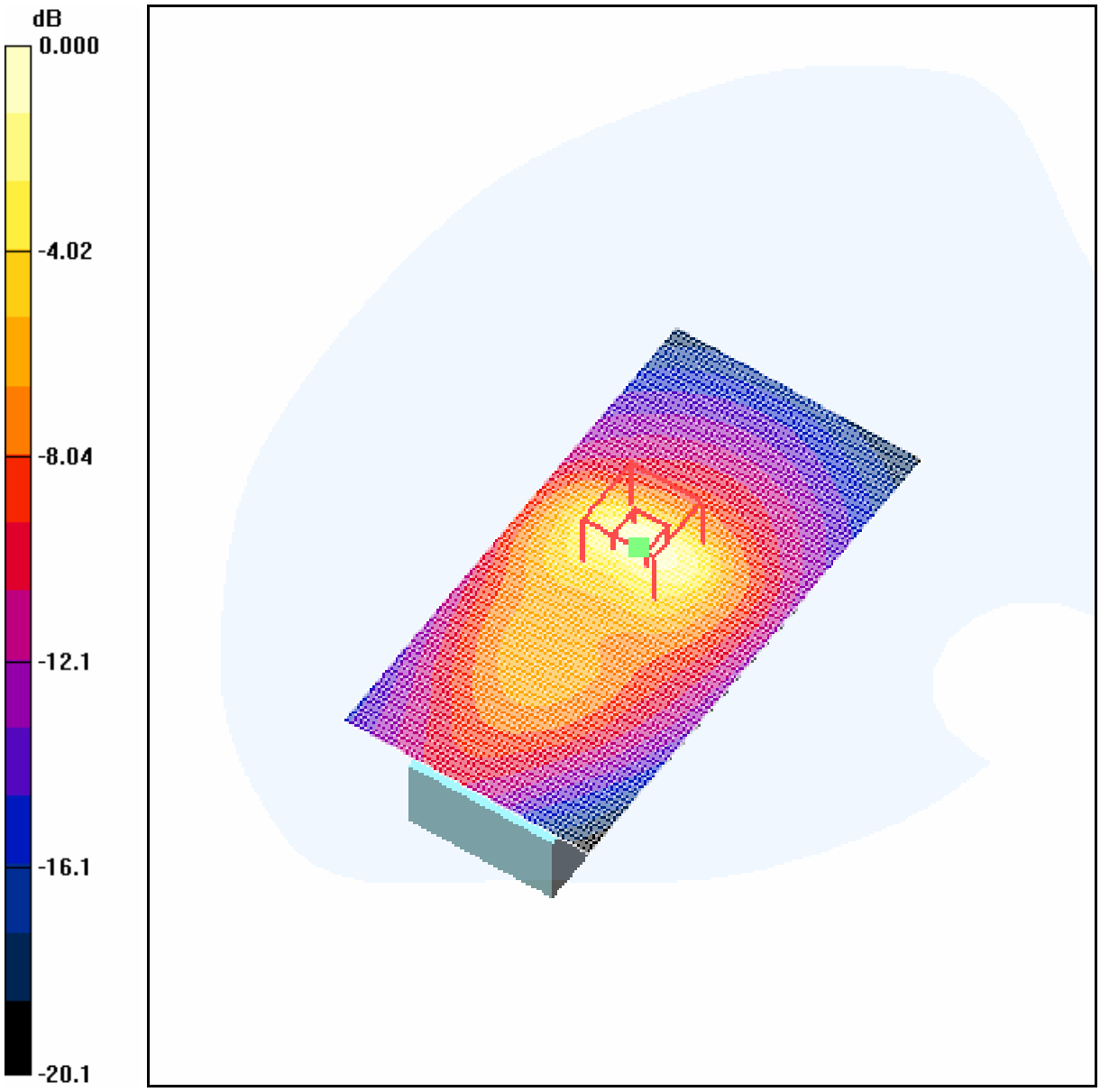
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900-Body Medium parameters used: f = 1850.2 MHz; σ = 1.49 mho/m; ε_r = 51.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.53, 4.53, 4.53); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - Low/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 8.33 V/m; Power Drift = -0.018 dB
Motorola Fast SAR: SAR(1 g) = 0.670 mW/g; SAR(10 g) = 0.335 mW/g
Maximum value of SAR (interpolated) = 0.838 mW/g



0 dB = 0.838mW/g

4.59 Body-Worn-PCS1900-Middle-on

Date/Time: 2006-5-29 14:08:57

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-Mid-on

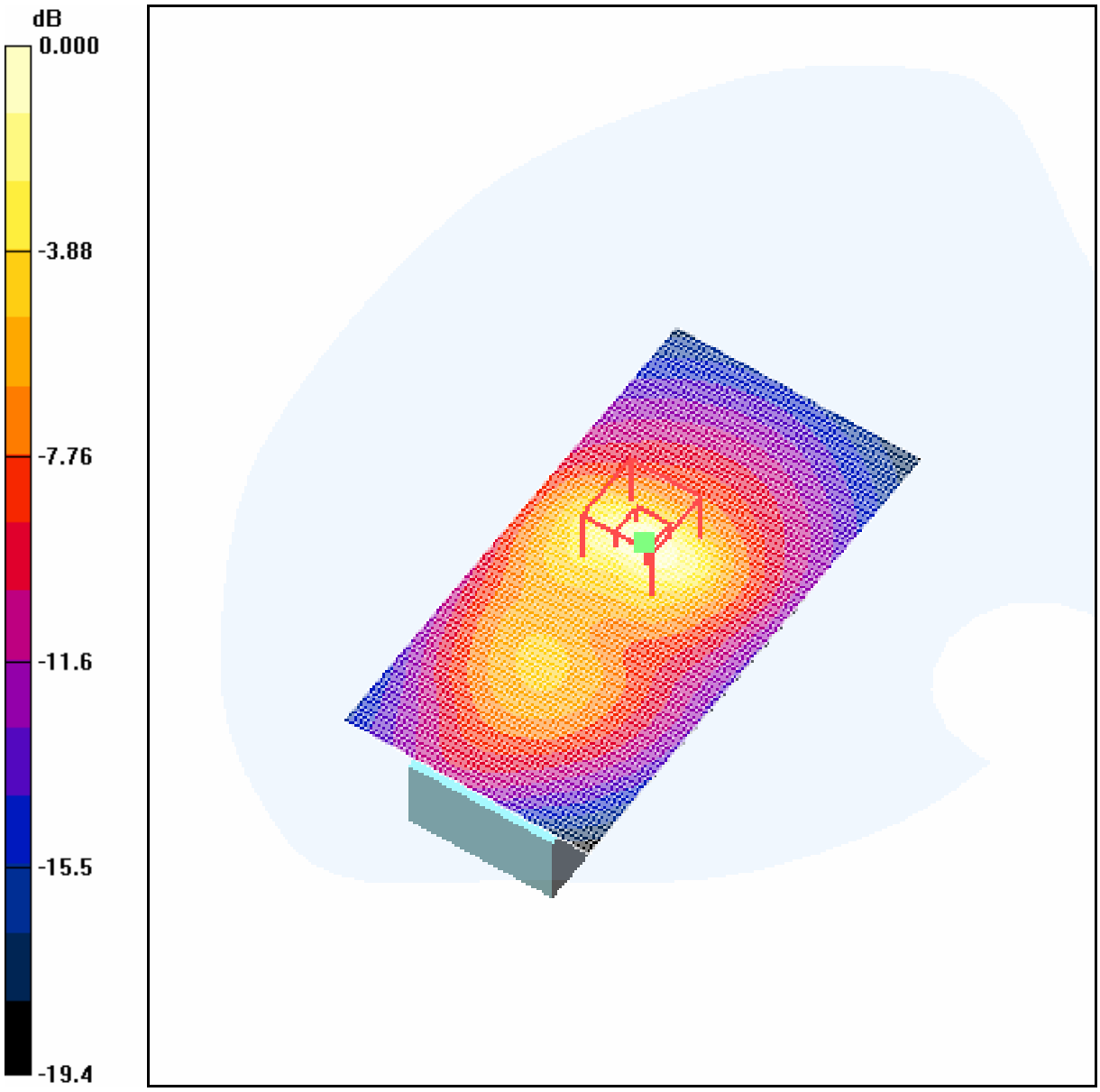
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: HSL1900-Body Medium parameters used: f = 1880 MHz; σ = 1.52 mho/m; ε_r = 51.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.53, 4.53, 4.53); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - Middle/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 8.61 V/m; Power Drift = -0.015 dB
Motorola Fast SAR: SAR(1 g) = 0.562 mW/g; SAR(10 g) = 0.280 mW/g
Maximum value of SAR (interpolated) = 0.693 mW/g



0 dB = 0.693mW/g

4.60 Body-Worn-PCS1900-High-on

Date/Time: 2006-5-29 14:17:10

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-High-on

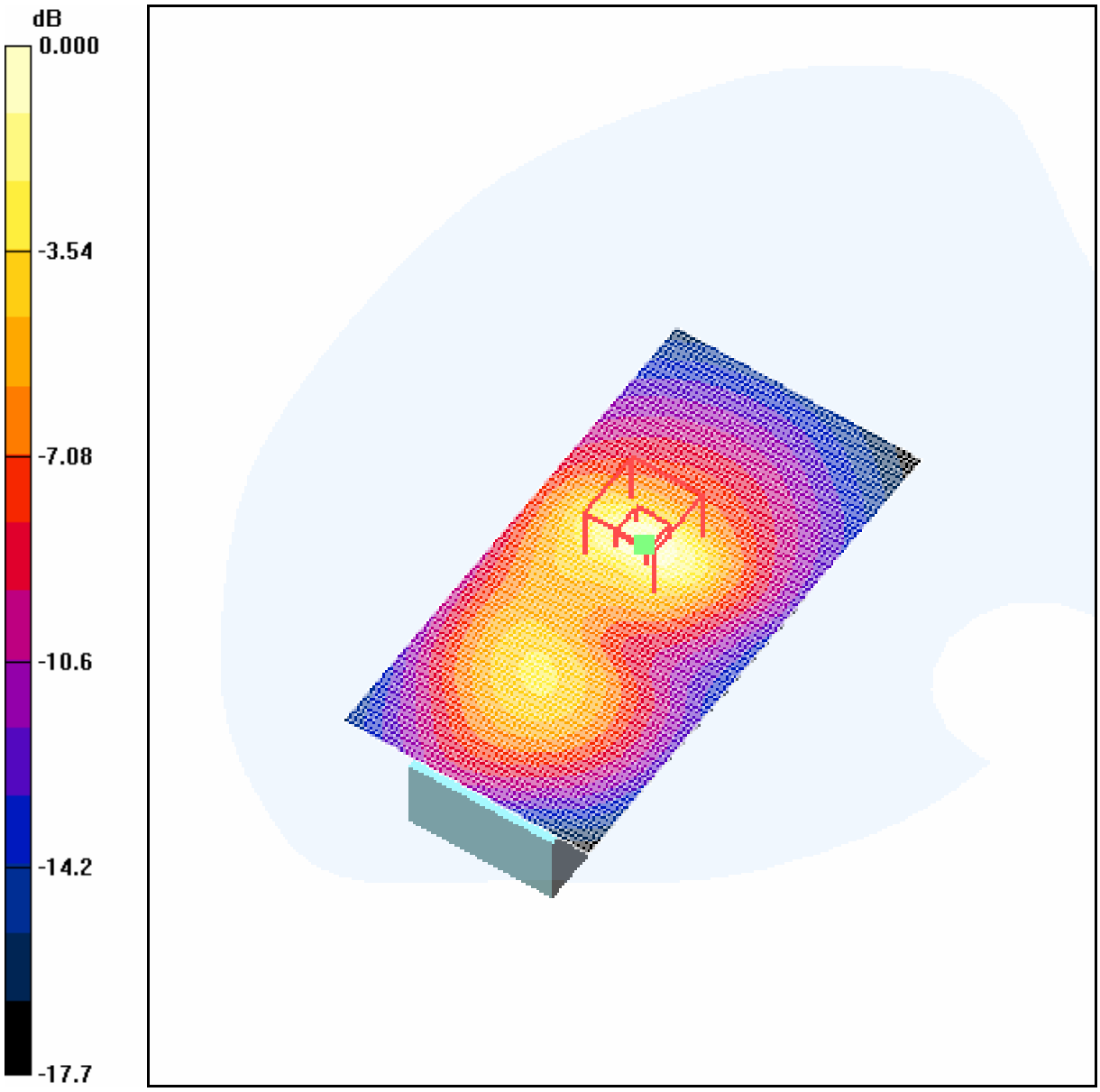
DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: HSL1900-Body Medium parameters used: f = 1909.8 MHz; σ = 1.55 mho/m; ε_r = 51.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.53, 4.53, 4.53); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - High/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 7.29 V/m; Power Drift = 0.022 dB
Motorola Fast SAR: SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.174 mW/g
Maximum value of SAR (interpolated) = 0.432 mW/g



0 dB = 0.432mW/g

Body-Worn-GSM1900-Low-on (Maximum Value)

Date/Time: 2006-5-29 14:00:37

Test Laboratory: SGS-GSM

PCS1900-Body-Worn-Low-on(conventional)

DUT: GSM10000064D-ON; Type: Body; Serial: 20060525

Communication System: PCS1900-GSM Mode; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: HSL1900-Body Medium parameters used: f = 1850.2 MHz; σ = 1.49 mho/m; ε_r = 51.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

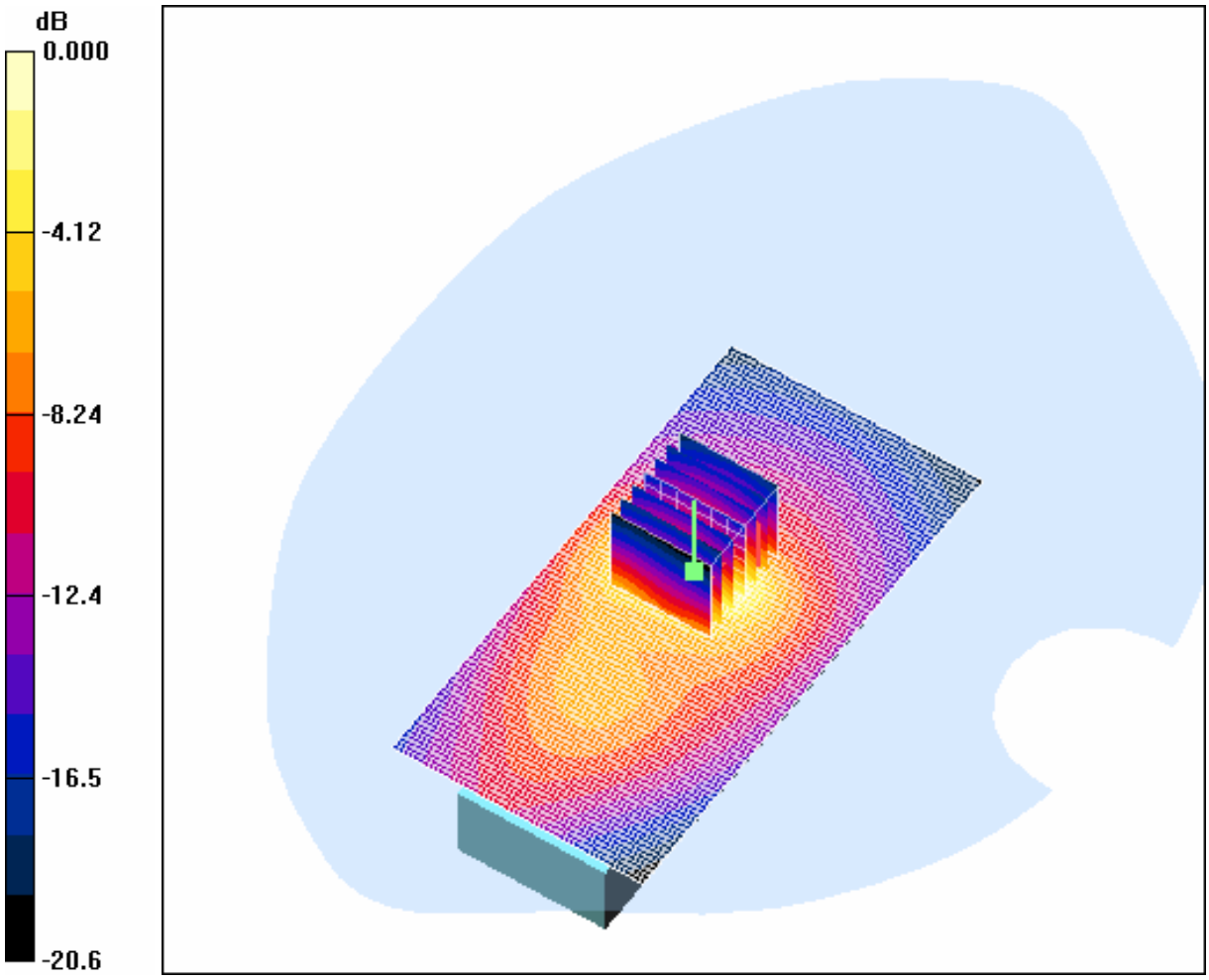
DASY4 Configuration:

- Probe: ES3DV3 - SN3088; ConvF(4.53, 4.53, 4.53); Calibrated: 2005-9-13
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn569; Calibrated: 2005-11-17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1283
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Body Worn - Low/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 8.33 V/m; Power Drift = -0.018 dB
Motorola Fast SAR: SAR(1 g) = 0.670 mW/g; SAR(10 g) = 0.335 mW/g
Maximum value of SAR (interpolated) = 0.838 mW/g

Maximum Position - Taditional Method/Area Scan (51x101x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.836 mW/g

Maximum Position - Taditional Method/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.28 V/m; Power Drift = -0.044 dB
Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.797 mW/g; SAR(10 g) = 0.384 mW/g
Maximum value of SAR (measured) = 0.918 mW/g



0 dB = 0.918mW/g

Appendix

1. Photographs of Test Setup

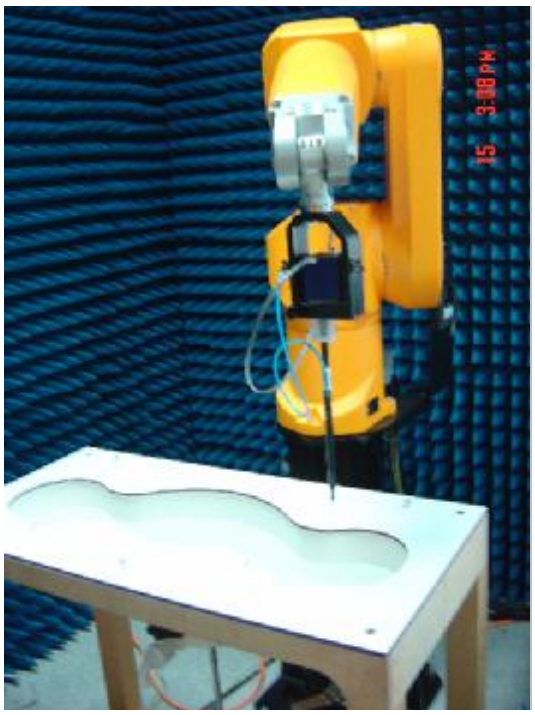


Fig.1 Photograph of the SAR measurement System

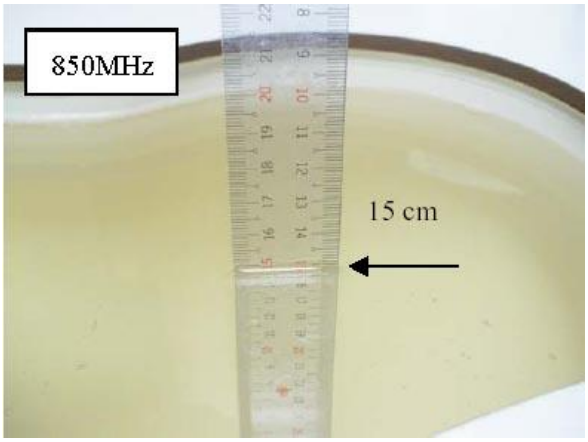


Fig.2 Photograph of the Tissue Simulant Fluid Fluid Liquid depth 15cm for Left-Head Side

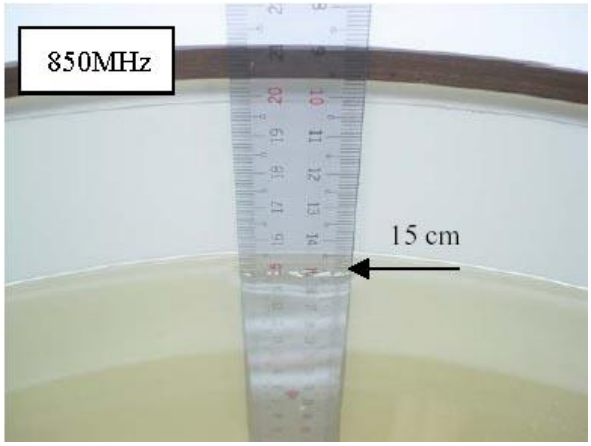


Fig.3 Photograph of the Tissue Simulant Liquid depth 15cm for Body-Worn

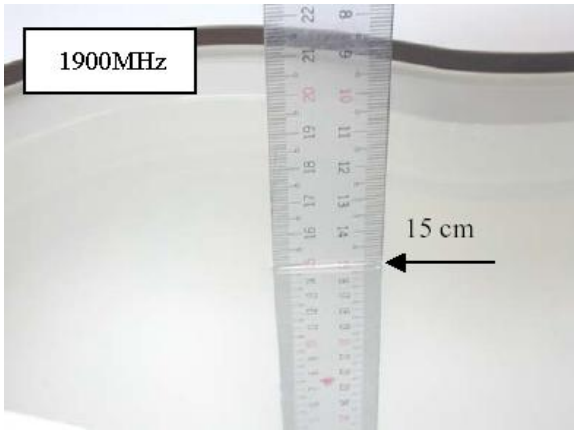


Fig.4 Photograph of the Tissue Simulant Fluid Fluid Liquid depth 15cm for Right-Head Side

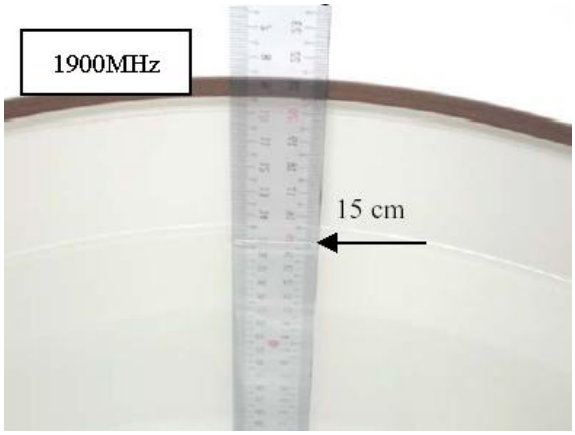


Fig.5 Photograph of the Tissue Simulant Liquid depth 15cm for Body-Worn

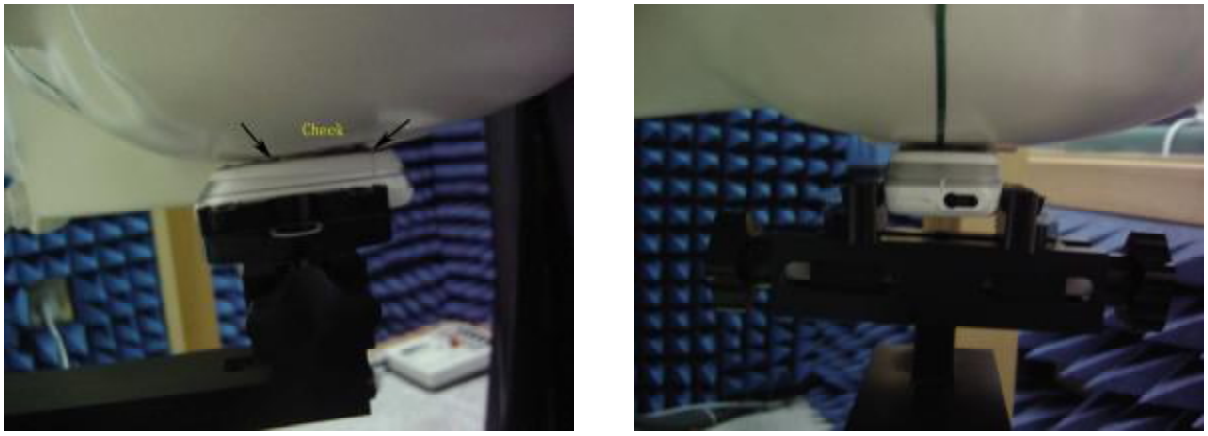


Fig.6 Photograph of the Left Hand Side Cheek,off status

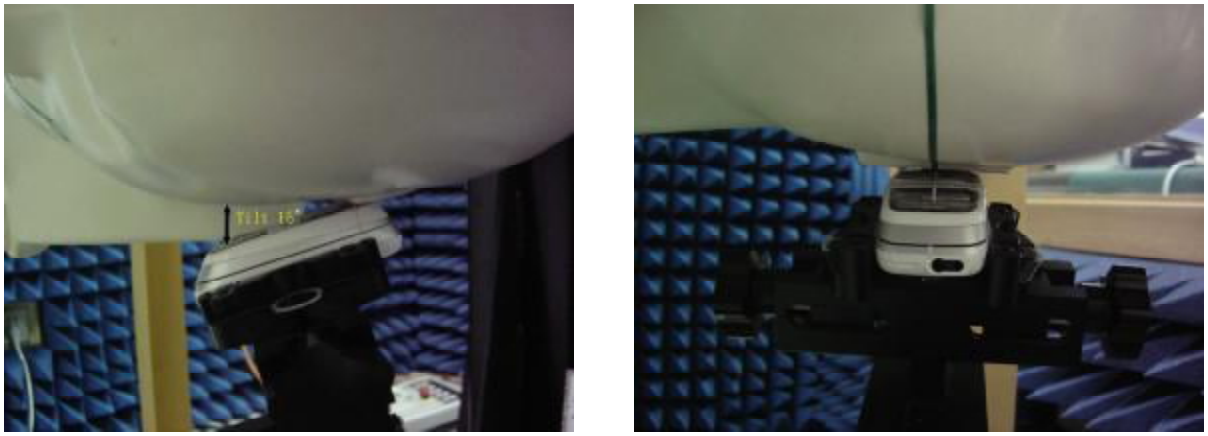


Fig.7 Photograph of the Left Hand Side Tilt ,off status

Fig.8 Photograph of the Left Hand Side Cheek,on status

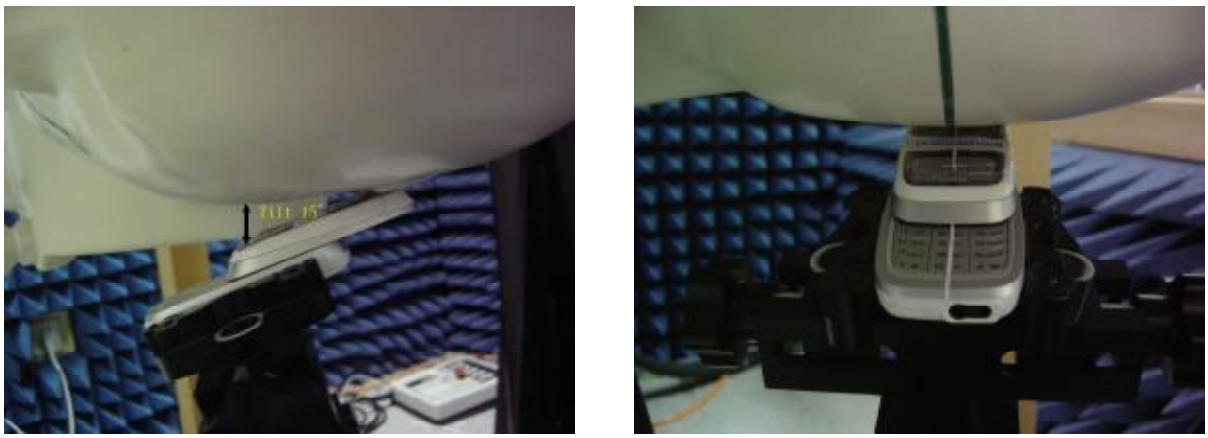


Fig.9 Photograph of the Left Hand Side Tilt ,on status

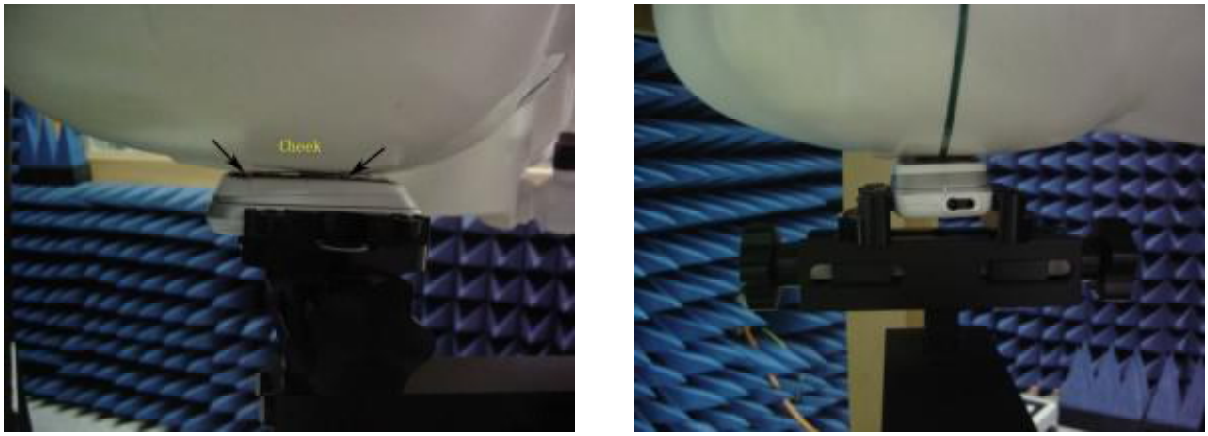


Fig.10 Photograph of the Right Hand Side Cheek ,off status

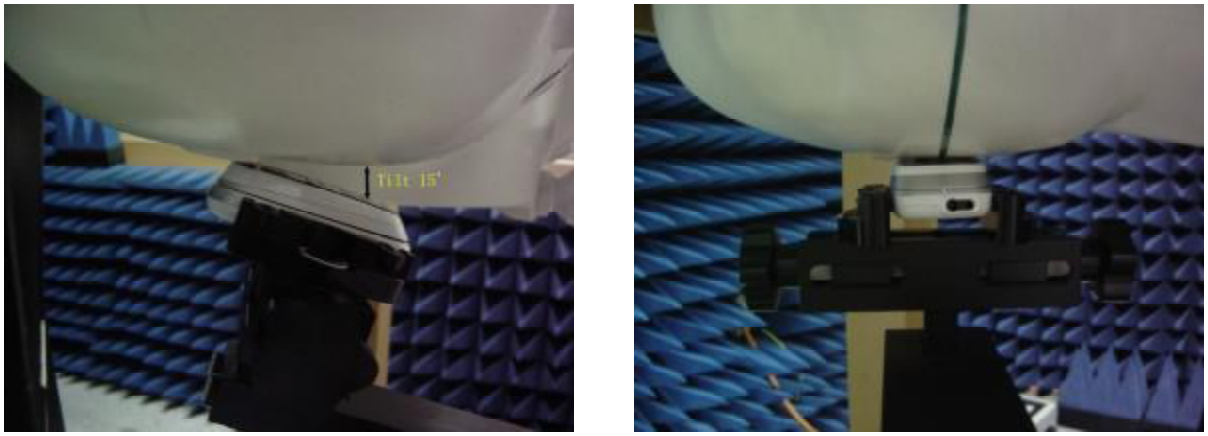


Fig.11 Photograph of the Right Hand Side Tilt,off status

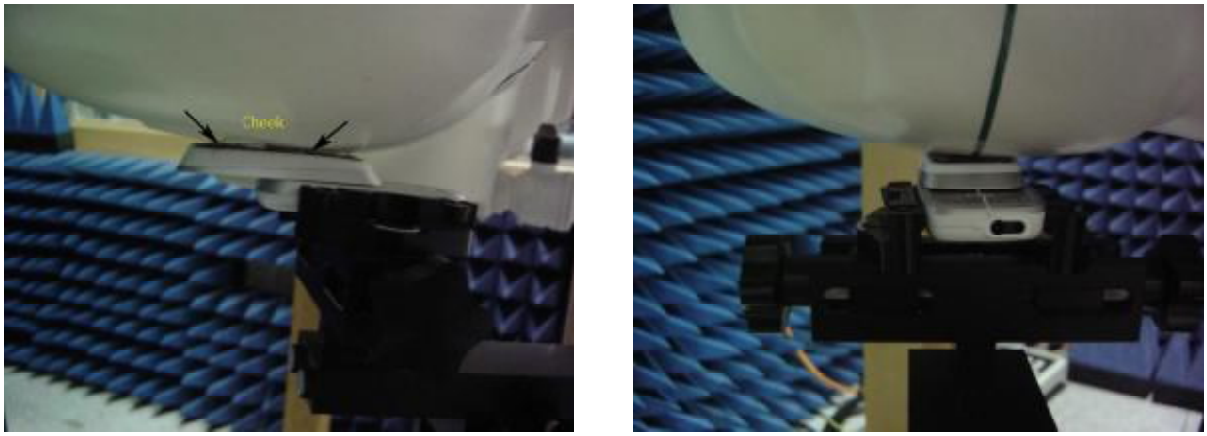


Fig.12 Photograph of the Right Hand Side Cheek ,on status

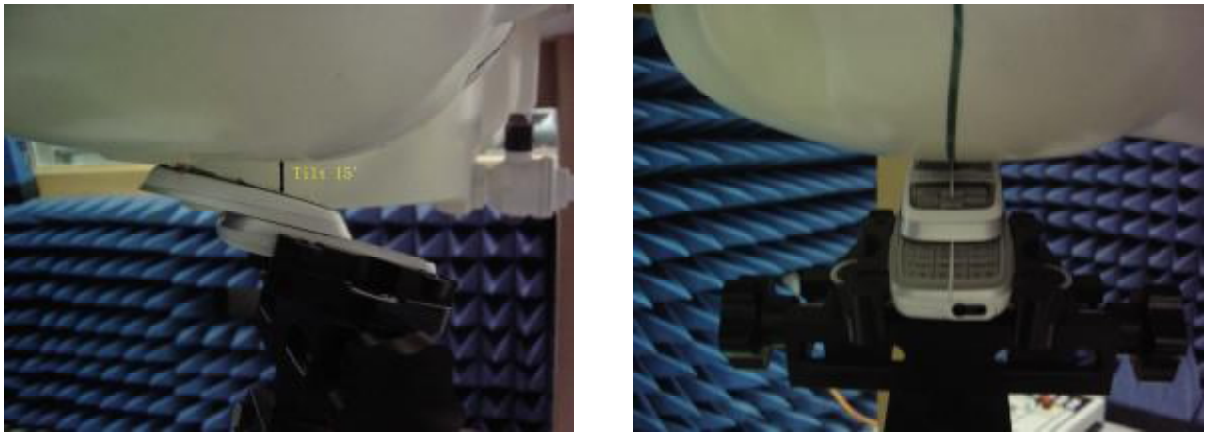


Fig.13 Photograph of the Right Hand Side Tilt,on status

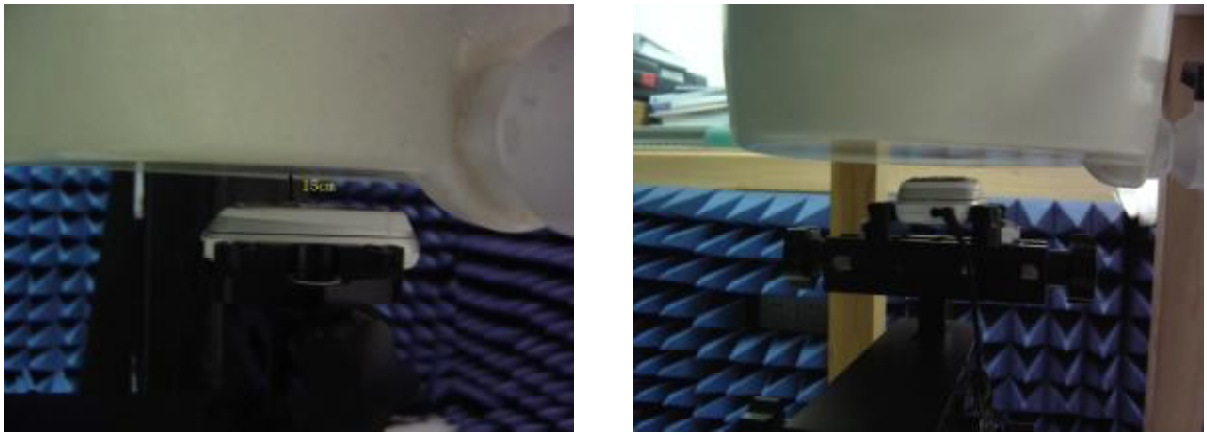


Fig.14 Photograph of the BodyWorn ,off status

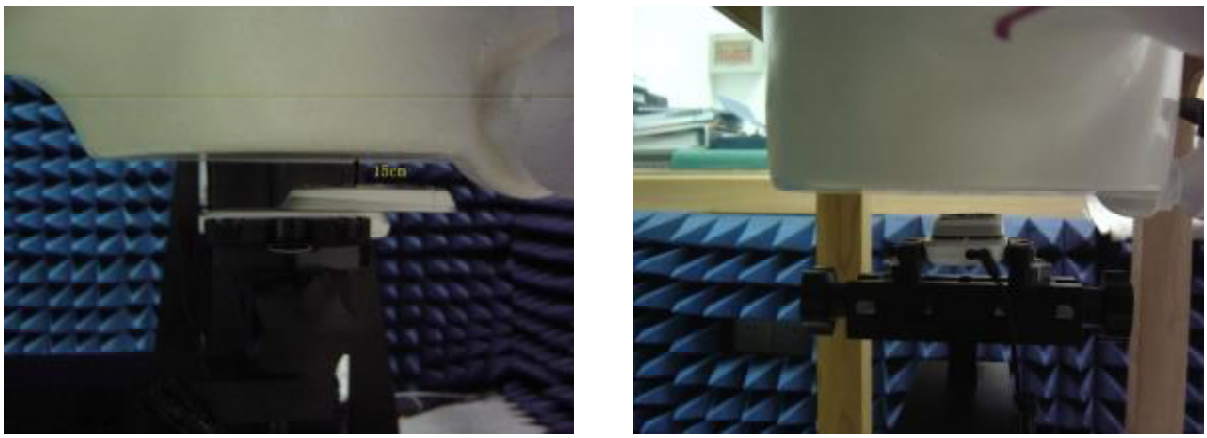


Fig.15 Photograph of the BodyWorn ,on status

2. Photographs of the EUT

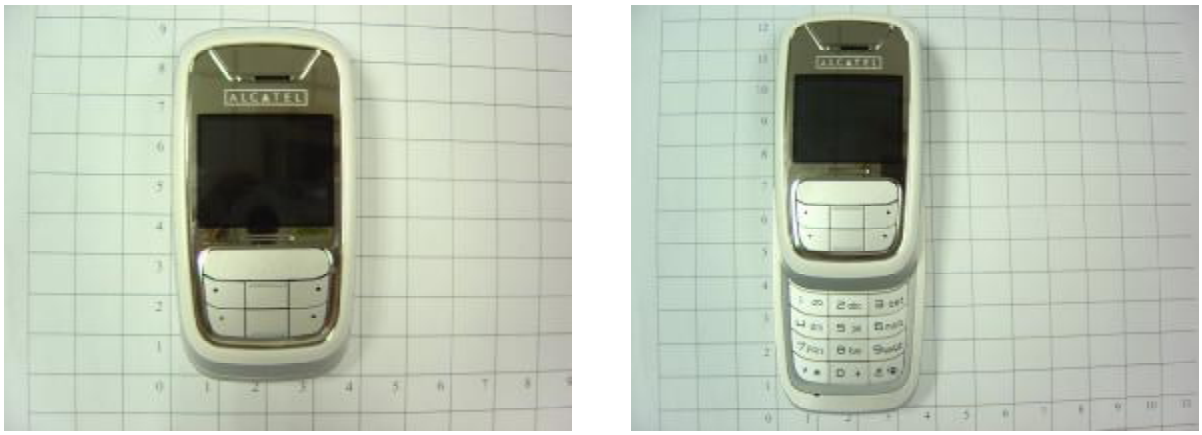


Fig.16 Front View off&on

Fig.17 Back View

3. Photographs of the battery

Fig.18 Front view of battery

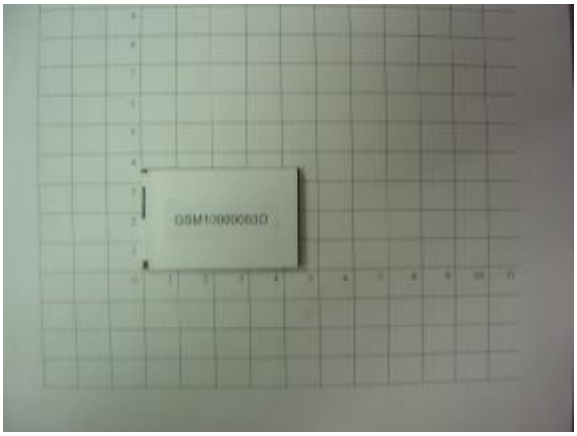


Fig.19 Back view of battery

4. Photograph of the charger

Fig.20 Charger

5. Probe Calibration certificate

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Federal Office of Metrology and Accreditation
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **SGS-CSTS (MTT)**

Certificate No: **ES3-3088_Sep05**

CALIBRATION CERTIFICATE

Object	ES3DV3 - SN:3088
Calibration procedure(s)	QA CAL-01.v5 Calibration procedure for dosimetric E-field probes
Calibration date:	September 13, 2005
Condition of the calibrated item	In Tolerance

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	3-May-05 (METAS, No. 251-00466)	May-06
Power sensor E4412A	MY41495277	3-May-05 (METAS, No. 251-00466)	May-06
Power sensor E4412A	MY41498087	3-May-05 (METAS, No. 251-00466)	May-06
Reference 3 dB Attenuator	SN: S5054 (3c)	11-Aug-05 (METAS, No. 251-00499)	Aug-06
Reference 20 dB Attenuator	SN: S5086 (20b)	3-May-05 (METAS, No. 251-00467)	May-06
Reference 30 dB Attenuator	SN: S5129 (30b)	11-Aug-05 (METAS, No. 251-00500)	Aug-06
Reference Probe ES3DV2	SN: 3013	7-Jan-05 (SPEAG, No. ES3-3013_Jan05)	Jan-06
DAE4	SN: 654	29-Nov-04 (SPEAG, No. DAE4-654_Nov04)	Nov-05

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (SPEAG, in house check Dec-03)	In house check: Dec-05
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Nov-04)	In house check: Nov 06

	Name	Function	Signature
Calibrated by:	Nico Vetterli	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: September 15, 2005

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: **SCS 108**

Accredited by the Swiss Federal Office of Metrology and Accreditation
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., ϑ = 0 is normal to probe axis

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

Probe ES3DV3

SN:3088

Manufactured: July 20, 2005
Calibrated: September 13, 2005

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

DASY - Parameters of Probe: ES3DV3 SN:3088

Sensitivity in Free Space[A]

NormX	**1.32** ± 10.1%	$\mu V/(V/m)^2$	DCP X	**95** mV
NormY	**1.24** ± 10.1%	$\mu V/(V/m)^2$	DCP Y	**95** mV
NormZ	**1.23** ± 10.1%	$\mu V/(V/m)^2$	DCP Z	**95** mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL **900 MHz** **Typical SAR gradient: 5 % per mm**

Sensor Center to Phantom Surface Distance		**3.0 mm**	**4.0 mm**
SAR_{be} [%]	Without Correction Algorithm	5.8	2.7
SAR_{be} [%]	With Correction Algorithm	0.0	0.1

TSL **1750 MHz** **Typical SAR gradient: 10 % per mm**

Sensor Center to Phantom Surface Distance		**3.0 mm**	**4.0 mm**
SAR_{be} [%]	Without Correction Algorithm	7.6	4.5
SAR_{be} [%]	With Correction Algorithm	0.1	0.2

Sensor Offset

Probe Tip to Sensor Center	**2.0** mm

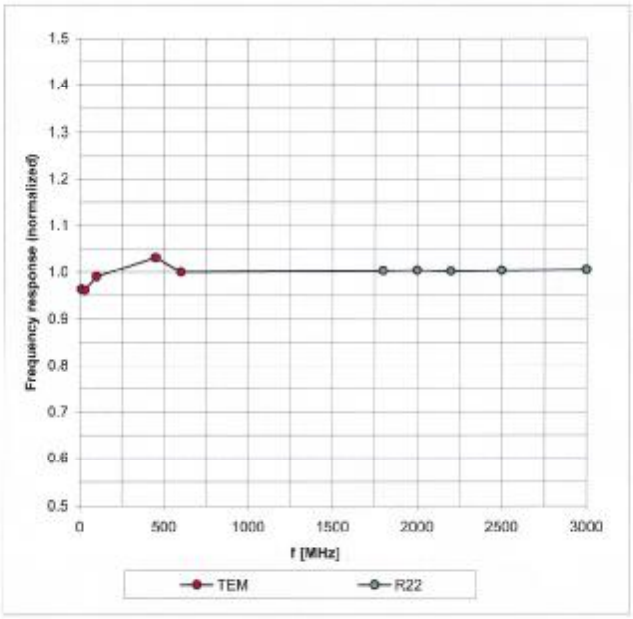
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of NormX,Y,Z do not affect the E^2-field uncertainty inside TSL (see Page 8).

[B] Numerical linearization parameter: uncertainty not required.

Frequency Response of E-Field

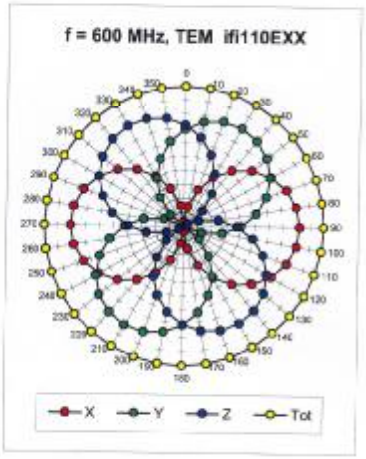
(TEM-Cell:ifi110 EXX, Waveguide: R22)

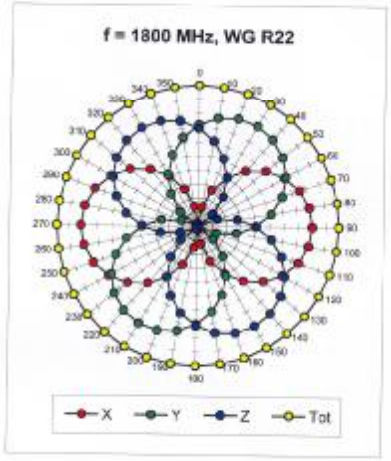


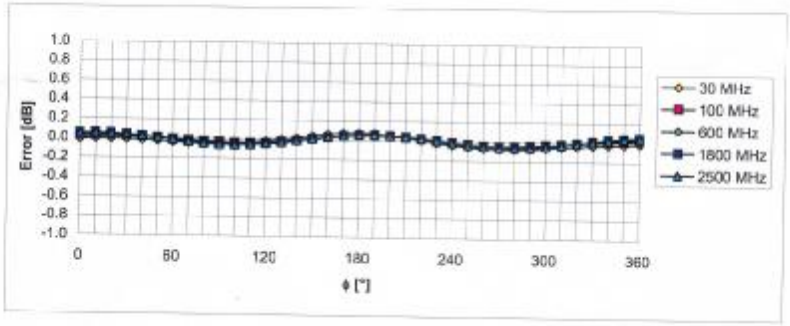
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

ES3DV3 SN:3088 September 13, 2005

Receiving Pattern (ϕ), ϑ = 0°



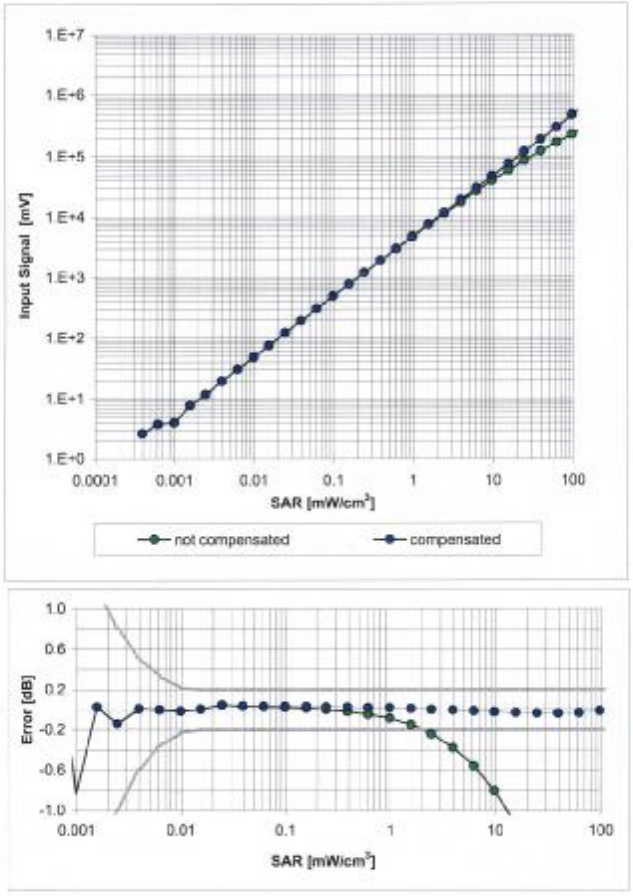




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

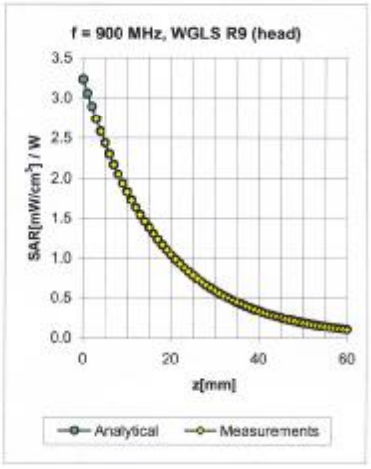
Dynamic Range f(SAR_{head})

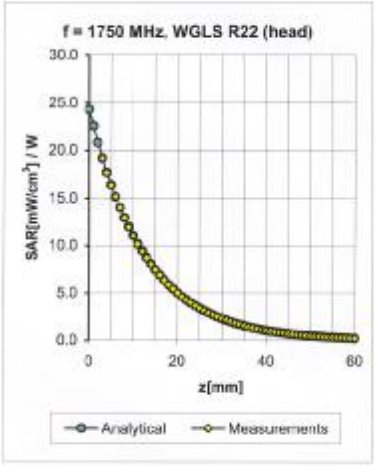
(Waveguide R22, f = 1800 MHz)



Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



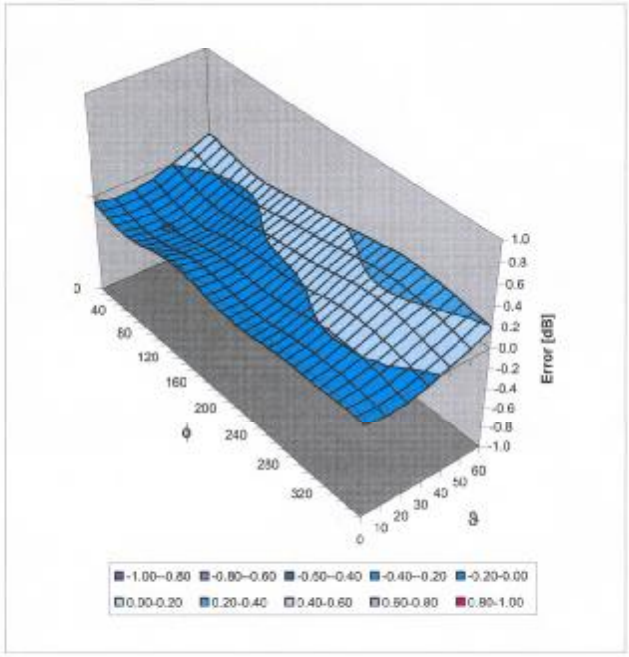


f [MHz]	Validity [MHz][C]	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
900	± 50 / ± 100	Head	41.5 ± 5%	0.97 ± 5%	0.47	1.40	5.91 ± 11.0% (k=2)
1750	± 50 / ± 100	Head	40.1 ± 5%	1.37 ± 5%	0.24	2.39	4.97 ± 11.0% (k=2)
1900	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.27	2.28	4.93 ± 11.0% (k=2)
2000	± 50 / ± 100	Head	40.0 ± 5%	1.40 ± 5%	0.25	2.34	4.87 ± 11.0% (k=2)
900	± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.61	1.25	5.83 ± 11.0% (k=2)
1750	± 50 / ± 100	Body	53.4 ± 5%	1.49 ± 5%	0.28	2.53	4.61 ± 11.0% (k=2)
1900	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.28	2.57	4.53 ± 11.0% (k=2)
2000	± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.32	2.11	4.47 ± 11.0% (k=2)

[C] The validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Deviation from Isotropy in HSL

Error (ϕ, ϑ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

6. Uncertainty analysis

Error Description	Tol. (± %)	Prob. dist.	Div.	(c_i) (1g)	(c_i) (10g)	Std. unc. (± %) (1g)	(10g)	(v_i)
Measurement System								
Probe Calibration	4.8	N	1	1	1	4.8	4.8	∞
Axial Isotropy	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
Hemispherical Isotropy	0	R	$\sqrt{3}$	1	1	0	0	∞
Boundary Effects	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
System Detection Limit	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Readout Electronics	1.0	N	1	1	1	1.0	1.0	∞
Response Time	0	R	$\sqrt{3}$	1	1	0	0	∞
Integration Time	0	R	$\sqrt{3}$	1	1	0	0	∞
RF Ambient Conditions	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
Probe Positioning	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
Algorithms for Max. SAR Eval.	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Dipole								
Dipole Axis to Liquid Distance	2.0	R	$\sqrt{3}$	1	1	1.2	1.2	∞
Input power and SAR drift meas.	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
Phantom and Tissue Param.								
Phantom Uncertainty	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
Liquid Conductivity (target)	5.0	R.	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
Liquid Conductivity (meas.)	2.5	N	1	0.64	0.43	1.6	1.1	∞
Liquid Permittivity (target)	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
Liquid Permittivity (meas.)	2.5	N	1	0.6	0.49	1.5	1.2	∞
Combined Stdandard Uncertainty						8.4	8.1	∞
Coverage Factor for 95%		kp=2						
Expanded Uncertainty						16.8	16.2	

Dasy4 Uncertainty Budget

7. Phantom description

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

Certificate of conformity / First Article Inspection

Item	SAM Twin Phantom V4.0
Type No	QD 000 P40 CA
Series No	TP-1150 and higher
Manufacturer / Origin	Untersee Composites Hauptstr. 69 CH-8559 Fruthwilen Switzerland

Tests

The series production process used allows the limitation to test of first articles. Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series units (called samples).

Test	Requirement	Details	Units tested
Shape	Compliance with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness	Compliant with the requirements according to the standards	2mm +/- 0.2mm in specific areas	First article, Samples
Material parameters	Dielectric parameters for required frequencies	200 MHz – 3 GHz Relative permittivity < 5 Loss tangent < 0.05.	Material sample TP 104-5
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards	Liquid type HSL 1800 and others according to the standard.	Pre-series, First article

Standards

[1] CENELEC EN 50361
[2] IEEE P1528-200x draft 6.5
[3] IEC PT 62209 draft 0.9
(*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of [1] and [3].

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standard [1] and draft standards [2] and [3].

Date 28.02.2002

Schmid & Partner Engineering AG
Zeughausstrasse 43, CH-8004 Zurich
Tel. +41 1 245 97 00, Fax +41 1 245 97 79

Signature / Stamp

F. Bomholt

8. System validation from original equipment supplier

DASY4 Validation Report for Head TSL

Date/Time: 19.08.2005 14:48:37

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:184

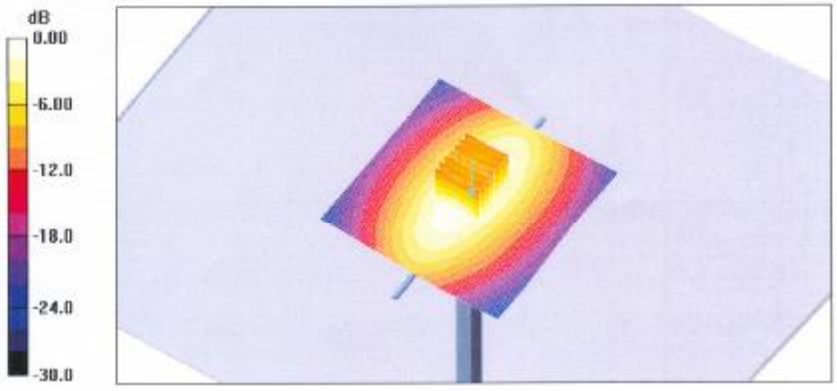
Communication System: CW-900; Frequency: 900 MHz; Duty Cycle: 1:1
Medium: HSL 900 MHz;
Medium parameters used: f = 900 MHz; σ = 0.96 mho/m; ε_r = 42.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(5.95, 5.95, 5.95); Calibrated: 26.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 07.01.2005
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA
- Measurement SW: DASY4, V4.6 Build 9; Postprocessing SW: SEMCAD, V1.8 Build 151

Pin = 250 mW; d = 15 mm/Area Scan (81x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.81 mW/g

Pin = 250 mW; d = 15 mm/Zoom Scan 2 (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.9 V/m; Power Drift = -0.018 dB
Peak SAR (extrapolated) = 3.84 W/kg
SAR(1 g) = 2.6 mW/g; SAR(10 g) = 1.67 mW/g
Maximum value of SAR (measured) = 2.82 mW/g



0 dB = 2.82mW/g

DASY4 Validation Report for Body TSL

Date/Time: 22.08.2005 16:14:01

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 900 MHz; Type: D900V2; Serial: D900V2 - SN:184

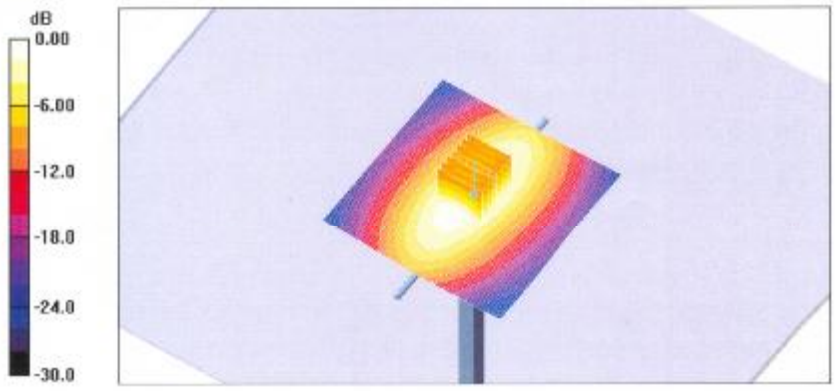
Communication System: CW-900; Frequency: 900 MHz; Duty Cycle: 1:1
Medium: MSL 900 MHz;
Medium parameters used: f = 900 MHz; σ = 1.07 mho/m; ε_r = 54.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(5.77, 5.77, 5.77); Calibrated: 26.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 07.01.2005
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA
- Measurement SW: DASY4, V4.6 Build 9; Postprocessing SW: SEMCAD, V1.8 Build 151

Pin = 250 mW; d = 15 mm 2/Area Scan (81x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.94 mW/g

Pin = 250 mW; d = 15 mm 2/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.3 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 3.90 W/kg
SAR(1 g) = 2.69 mW/g; SAR(10 g) = 1.74 mW/g
Maximum value of SAR (measured) = 2.96 mW/g



0 dB = 2.96mW/g

DASY4 Validation Report for Head TSL

Date/Time: 25.08.2005 17:04:02

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d028

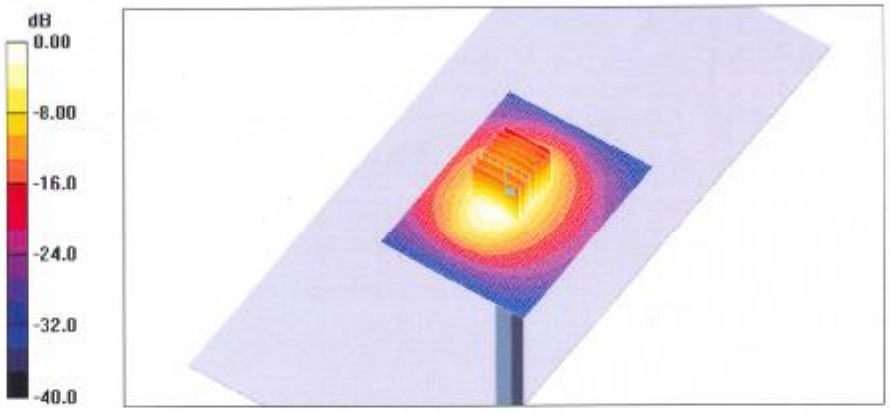
Communication System: CW-1900; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL 1900 MHz;
Medium parameters used: f = 1900 MHz; σ = 1.47 mho/m; ε_r = 38.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(4.96, 4.96, 4.96); Calibrated: 26.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 07.01.2005
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA
- Measurement SW: DASY4, V4.6 Build 9; Postprocessing SW: SEMCAD, V1.8 Build 151

Pin = 250 mW; d = 10 mm/Area Scan (61x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.8 mW/g

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.5 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 17.2 W/kg
SAR(1 g) = 9.89 mW/g; SAR(10 g) = 5.16 mW/g
Maximum value of SAR (measured) = 11.2 mW/g



0 dB = 11.2mW/g

DASY4 Validation Report for Body TSL

Date/Time: 26.08.2005 15:32:29

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d028

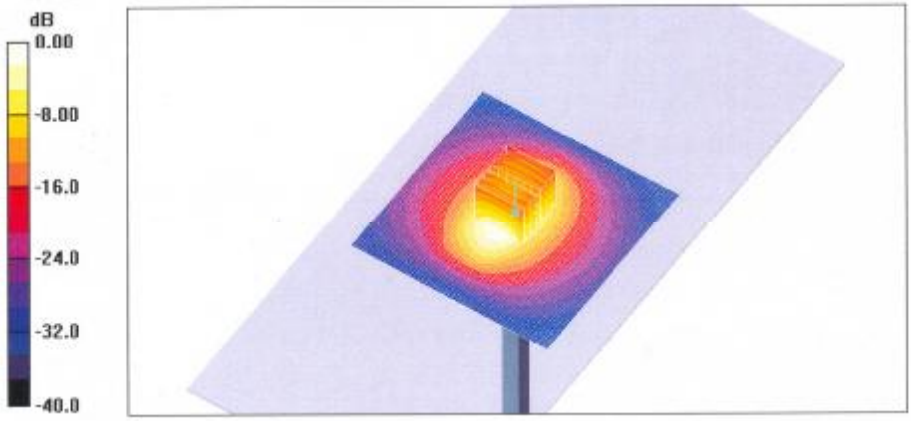
Communication System: CW-1900; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: MSL 1900 MHz;
Medium parameters used: f = 1900 MHz; σ = 1.6 mho/m; ε_r = 53.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(4.43, 4.43, 4.43); Calibrated: 26.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 07.01.2005
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA
- Measurement SW: DASY4, V4.6 Build 9; Postprocessing SW: SEMCAD, V1.8 Build 151

Pin = 250 mW; d = 10 mm 2/Area Scan (81x81x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.2 mW/g

Pin = 250 mW; d = 10 mm 2/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 86.7 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 16.4 W/kg
SAR(1 g) = 9.81 mW/g; SAR(10 g) = 5.22 mW/g
Maximum value of SAR (measured) = 11.2 mW/g



0 dB = 11.2mW/g

The end