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BA/SEMC/CCMVAU Rob Carr

Approved

LD/SEMC/BGLIMC Mats Hansson

Checked

Company Internal REPORT

No.

CCDA09:411.

Date

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Report issued by Accredited SAR Laboratory

for

FCC ID: PY7A3880032 (U10i)

Date of test: June 16<sup>th</sup> to July 1<sup>st</sup> 2009

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Statement of Compliance

Sony Ericsson Mobile Communications AB declares under its sole responsibility that the product

**Sony Ericsson Type AAD-3880032-BV; FCC ID PY7A3880032; IC 4170B-A3880032**

to which this declaration relates, is in conformity with the appropriate RF exposure standards recommendations and guidelines. It also declares that the product was tested in accordance with the appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below:

(None)

This laboratory is accredited to ISO/IEC 17025 (SWEDAC accreditation no. 1847).



Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. The accredited laboratory activities meet the requirements in SS-EN ISO/IEC 17025 (2005). This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.

Sony Ericsson encourages all feedback, both positive and negative, on this report.  
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## 1 Introduction

In this test report, compliance of the Sony Ericsson FCC ID: PY7A3880032 (U10i) portable telephone with RF safety guidelines is demonstrated. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in the SAR Measurement Specifications of Wireless Handsets [1].

## 2 Customer details

<b>Company Name:</b>	Sony Ericsson Mobile Communications AB
<b>Address:</b>	Nya Vattentorget 221 88 Lund Sweden
<b>Contact Name:</b>	Tobias Horngren

## 3 Device Under Test

### 3.1 Antenna Description

<b>Type</b>	Internal antenna	
<b>Location</b>	Bottom of phone	
<b>Main and WLAN antennas distance</b>	80.0 mm	
<b>Dimensions</b>	Max length	43 mm
	Max width	10 mm
<b>Configuration</b>	Monopole	



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### 3.2 Device Description

<b>Device model</b>	AAD-3880032-BV					
<b>Market name</b>	U10i					
<b>Serial number (EUT #)</b>	CB511D29AS (#15623) CB511D29A0 (#15728) - WLAN					
<b>Mode</b>	GSM 850			GSM 1900		
<b>Crest factor</b>	8.3			8.3		
<b>Multiple access scheme</b>	TDMA			TDMA		
<b>Channel No.</b>	128	190	251	512	661	885
<b>Measured Power Level [dBm]<sup>1</sup> (#15623)</b>	33.5	33.4	33.4	30.5	30.4	30.4
<b>Product Maximum power Level [dBm]<sup>1</sup></b>	33.5	33.5	33.5	30.5	30.5	30.5
<b>Data mode</b>	GPRS			GPRS		
<b>Crest factor</b>	4.15			4.15		
<b>Measured Power Level [dBm]<sup>1</sup> (#15623)</b>	31.0	31.0	30.9	30.3	30.4	30.4
<b>Product Maximum power Level [dBm]<sup>1</sup></b>	31.5	31.5	31.5	30.5	30.5	30.5
<b>Data mode</b>	EDGE			EDGE		
<b>Crest factor</b>	4.15			4.15		
<b>Measured Power Level [dBm]<sup>1</sup> (#15623)</b>	27.5	27.3	27.3	26.3	26.3	26.2
<b>Product Maximum power Level [dBm]<sup>1</sup></b>	28.0	28.0	28.0	27.0	27.0	27.0
<b>Transmitting frequency range [MHz]</b>	824.0 - 849.0			1850.0 - 1910.0		

<b>GPRS Multislot class</b>	10
<b>EDGE class</b>	10
<b>GPRS Capability class</b>	B
<b>BT class and conducted power</b>	Class 1, 4.0 dBm
<b>Prototype or production unit</b>	Preproduction
<b>Hardware Version</b>	AP1.1 (#15623, #15728)
<b>Software version</b>	R1AA060 (#15623) R1GA049 (#15728)
<b>Device category</b>	Portable
<b>RF exposure environment</b>	General population / uncontrolled

<sup>1</sup> These values are supplied by the customer



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WLAN Output Power					
Mode	Max Output Power <sup>1</sup> (dBm)	Factory Tolerance <sup>1</sup> (dB)	EUT (#15728) power (dBm) <sup>1</sup>		
			Ch 1	Ch6	Ch11
802.11b 1Mbit/sec	17.5	1	17.5	17.2	17.0
802.11b 2Mbit/sec			17.4	17.1	17.3
802.11b 5.5Mbit/sec			17.5	17.3	17.2
802.11b 11Mbit/sec			17.6	17.3	17.2
802.11g 6Mbit/sec	13.5	1	13.3	13.6	13.5
802.11g 9Mbit/sec			13.2	13.6	13.5
802.11g 12Mbit/sec			13.0	13.6	13.5
802.11g 18Mbit/sec			13.5	13.9	14.0
802.11g 24Mbit/sec			13.2	13.8	13.7
802.11g 36Mbit/sec			13.4	13.7	13.7
802.11g 48Mbit/sec			13.3	13.7	13.7
802.11g 54Mbit/sec			13.3	13.7	13.8

<sup>1</sup> These values are supplied by the customer

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## 4 Test equipment

### 4.1 Dosimetric system

SAR measurements were made using the DASY4 professional system (software version 4.7, Build 55) with SAM twin phantom, manufactured by Schmid & Partner Engineering AG (SPEAG). The list of calibrated equipment is given below.

Description	Serial Number	Due Date
DASY4 DAE3	448	2009-11
E-field probe ET3DV6	1610	2009-11
Dipole Validation Kit, D835V2	442	2009-12
Dipole Validation Kit, D1900V2	539	2009-12
Dipole Validation Kit, D2450V2	721	2009-12

### 4.2 Additional equipment

Description	Inventory Number	Due Date
Signal generator HP E4433B	1.045	2010-04
Directional coupler HP778D	15.233	None
Power meter R&S NRVD	4.073	2010-04
Power sensor R&S NRV-Z5	4.074	2010-04
Power sensor R&S NRV-Z5	4.076	2010-04
Network analyzer Agilent 8719D	2.022	2010-04
Dielectric probe kit HP8507C	14.046	Self Cal
R&S CMU200	20010943	2010-04

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## 5 Electrical parameters on the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity,  $\epsilon_r$ , and the conductivity  $\sigma$ , of the tissue simulating liquids were measured with the dielectric probe kit. These values are shown in the table below. The mass density,  $\rho$ , entered into the DASY4 software is also given. Recommended limits for permittivity  $\epsilon_r$ , conductivity  $\sigma$  and mass density  $\rho$  are also shown.

f [MHz]	Tissue type	Measured / Recommended	Dielectric Parameters		Density
			$\epsilon_r$	$\sigma$ [S/m]	$\rho$ [g/cm <sup>3</sup> ]
835	Head	Measured, 2009-06-15	40.69	0.88	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2009-06-26	52.88	0.97	1.00
		Recommended	55.20	0.97	1.00
1900	Head	Measured, 2009-06-18	38.18	1.47	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2009-06-19	50.67	1.59	1.00
		Recommended	53.30	1.52	1.00
2450	Head	Measured, 2009-06-30	37.70	1.87	1.00
		Recommended	39.20	1.80	1.00
2450	Body	Measured, 2009-06-30	50.10	1.98	1.00
		Recommended	52.70	1.95	1.00



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## 6 System accuracy verification

A system accuracy verification of the DASY4 was performed using the dipole validation kit listed in section 4.1. The system verification test was conducted on the same day as the measurement of the DUT. The ambient humidity and temperature of test facility were kept between the range 30-70% and 20.0-25.0 °C respectively. RF noise had been measured in liquid when all RF equipment in lab was switched off. Measured value was 0.0002 mW/g in 1g mass.

f [MHz]	Tissue type	Measured / Reference	SAR [W/kg] 1g	Dielectric Parameters		Density	Liquid T[°C]
				$\epsilon_r$	$\sigma$ [S/m]	$\rho$ [g/cm <sup>3</sup> ]	
835	Head	Measured, 2009-06-15	9.92	40.69	0.88	1.00	21.3
		Reference	9.34	41.50	0.90	1.00	22.0
835	Body	Measured, 2009-06-26	10.08	52.88	0.97	1.00	22.0
		Reference	9.85	55.20	0.97	1.00	22.0
1900	Head	Measured, 2009-06-18	38.32	38.18	1.47	1.00	22.3
		Reference	41.30	40.00	1.40	1.00	22.0
1900	Body	Measured, 2009-06-19	42.00	50.67	1.59	1.00	22.3
		Reference	41.30	53.30	1.52	1.00	22.0
2450	Head	Measured, 2009-06-30	57.20	37.70	1.87	1.00	21.0
		Reference	54.10	39.20	1.80	1.00	22.0
2450	Body	Measured, 2009-07-01	53.20	50.10	1.98	1.00	21.0
		Reference	53.10	52.70	1.95	1.00	22.0





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## 7 SAR measurement uncertainty

### *SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880032 (U10i) phone According to IEEE 1528*

Uncertainty Component	Uncer. (%)	Prob Dist.	Div.	C <sub>i</sub>	1g mass
<b>Measurement System</b>					
Probe Calibration	±5.9	N	1	1	±5.9
Axial Isotropy	±4.7	R	√3	0.7	±1.9
Spherical Isotropy	±9.6	R	√3	0.7	±3.9
Boundary effect	±1.0	R	√3	1	±0.6
Probe linearity	±4.7	R	√3	1	±2.7
Detection limit	±1.0	R	√3	1	±0.6
Readout electronics	±0.3	N	1	1	±0.3
Response time	±0.8	R	√3	1	±0.5
Integration time	±2.6	R	√3	1	±1.5
RF Ambient Conditions	±3.0	R	√3	1	±1.7
Mech. Constraints of robot	±0.4	R	√3	1	±0.2
Probe positioning	±2.9	R	√3	1	±1.7
Extrap, interpolation and integration	±1.0	R	√3	1	±0.6
<b>Measurement System Uncertainty</b>					<b>±8.4</b>
<b>Test Sample Related</b>					
Device positioning	±3.5	N	1	1	±3.5
Device holder uncertainty	±3.5	N	1	1	±3.5
Power drift	±5.0	R	√3	1	±2.9
<b>Test Sample Related Uncertainty</b>					<b>±5.5</b>
<b>Phantom and Tissue Parameters</b>					
Phantom uncertainty	±4.0	R	√3	1	±2.3
Liquid conductivity (measured)	±2.5	R	1	0.64	±1.6
Liquid conductivity (target)	±5.0	R	√3	0.64	±1.8
Liquid Permittivity (measured)	±2.5	R	1	0.6	±1.5
Liquid Permittivity (target)	±5.0	R	√3	0.6	±1.7
<b>Phantom and Tissue Parameters Uncertainty</b>					<b>±4.1</b>
<b>Combined standard uncertainty</b>					<b>±10.8</b>
<b>Extended standard uncertainty (k=2)</b>					<b>±21.6</b>



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## 8 Test results

The ambient humidity and temperature of test facility were kept between the range 30-70% and 20.0-25.0 °C respectively. A base station simulator was used to control the device during the SAR measurement. The DUT was supplied with a fully charged battery for each measurement.

For head measurement, the DUT was tested with the slider open and closed, on the right-hand side and the left-hand side of the phantom, in two phone positions, cheek (touch) and tilt (cheek + 15°). The DUT was tested at the lowest, middle and highest frequencies in the transmission band. The measured 1-gram averaged SAR values of the DUT towards the head are provided in Table 1.

For body measurement the DUT was tested with the slider in the closed position with the back (antenna) and front(display) towards the phantom flat section with 15 mm distance in both speech and data mode. For all modes, the device was tested at the lowest, middle and highest frequencies in the transmission band. For portable hands free (PHF) usage the Sony Ericsson head set HPB-60 was connected to the DUT. The measured 1-gram averaged SAR values of the DUT towards the body are provided in Table 2.



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Band	Channel	Measured output power <sup>1</sup> [dBm]	Position	Liquid T [°C]	Measured SAR [W/kg]	
					Left-hand 1g mass	Right-hand 1g mas
GSM 850	128	33.5	Cheek	21.3	0.60	0.60
			Tilt	21.3	-	-
			<sup>2</sup> Cheek	21.3	0.73	0.67
			<sup>2</sup> Tilt	21.3	-	-
	190	33.4	Cheek	21.3	0.73	0.72
			Tilt	21.3	0.41	0.41
			<sup>2</sup> Cheek	21.3	0.70	0.72
			<sup>2</sup> Tilt	21.3	0.57	0.62
	251	33.4	Cheek	21.3	<b>0.96</b>	0.89
			Tilt	21.3	-	-
			<sup>2</sup> Cheek	21.3	0.79	0.72
			<sup>2</sup> Tilt	21.3	-	-
GSM 1900	512	30.5	Cheek	22.3	-	<b>0.31</b>
			Tilt	22.3	-	-
			<sup>2</sup> Cheek	22.3	0.30	0.24
			<sup>2</sup> Tilt	22.3	-	-
	661	30.4	Cheek	22.3	0.15	0.21
			Tilt	22.3	0.14	0.13
			<sup>2</sup> Cheek	22.3	0.26	0.20
			<sup>2</sup> Tilt	22.3	0.12	0.12
	810	30.4	Cheek	22.3	-	0.12
			Tilt	22.3	-	-
			<sup>2</sup> Cheek	22.3	0.21	0.17
			<sup>2</sup> Tilt	22.3	-	-
WLAN 802.11b 1 Mbps	1	17.5	Cheek	21.0	-	-
			Tilt	21.0	-	-
			<sup>2</sup> Cheek	21.0	-	-
			<sup>2</sup> Tilt	21.0	0.05	0.05
	6	17.2	Cheek	21.0	0.01	0.01
			Tilt	21.0	0.01	0.02
			<sup>2</sup> Cheek	21.0	0.03	0.04
			<sup>2</sup> Tilt	21.0	0.04	0.06
	11	17.0	Cheek	21.0	-	-
			Tilt	21.0	-	-
			<sup>2</sup> Cheek	21.0	-	-
			<sup>2</sup> Tilt	21.0	0.08	0.08

Table 1: SAR measurement result for Sony Ericsson PY7A3880032 telephone at highest possible output power. Measured towards the head.

<sup>1</sup> Measured output values were provided by the customer.

<sup>2</sup> Slider closed.



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Band	Channel	Measured output power <sup>1</sup> [dBm]	Position / Mode	Liquid T [°C]	Measured SAR [W/kg] 1g mass
GSM 850	128	31.0	Back / GPRS	22.0	<b>1.18</b>
		33.5	Back / Speech	22.0	0.86
		31.0	Front / GPRS	22.0	0.54
		27.5	Back / EDGE	22.0	0.50
	190	31.0	Back / GPRS	22.0	1.01
		33.4	Back / Speech	22.0	0.93
		33.4	Back / PHF	22.0	0.77
	251	30.9	Back / GPRS	22.0	0.78
33.4		Back / Speech	22.0	0.78	
GSM 1900	512	30.3	Back / GPRS	22.3	<b>0.53</b>
		30.5	Back / Speech	22.3	0.29
		30.5	Back / PHF	22.3	0.30
		26.3	Back / EDGE	22.3	0.19
		30.3	Front / GPRS	22.3	0.21
	661	30.4	Back / GPRS	22.3	0.41
		30.4	Back / Speech	22.3	0.22
	810	30.4	Back / GPRS	22.3	0.38
30.4		Back / Speech	22.3	0.20	
WLAN	1	17.5	Back / WLAN	21.0	0.08
	6	17.2	Back / WLAN	21.0	0.13
	11	17.0	Back / WLAN	21.0	<b>0.13</b>

Table 2: SAR measurement result for Sony Ericsson PY7A3880032 telephone at highest possible output power. Measured towards the body.

<sup>1</sup> Measured output values were provided by the customer.

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## 9 References

- [ 1 ] R.Plicanic. "SAR Measurement Specification of Wireless Handsets". Sony Ericsson SAR Test Laboratory internal document GUG/N 03:141
- [ 2 ] FCC. "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radio Frequency Emissions." Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97- 01).
- [ 3 ] IEEE. "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques." Std 1528-2003. June. 2003.
- [ 4 ] IEC 62209-1. "Procedure to measure the Specific Absorption Rate (SAR) for hand-held mobile wireless devices in the frequency range of 300 MHz to 3 GHz". February 2005.
- [ 5 ] FCC KDB248227. "SAR Measurement procedure for 802.11a/b/g Transmitters", May 2007.
- [ 6 ] FCC KDB648474. "SAR Evaluation Consideration for HANDSETS with Multiple Transmitters and Antenna", April 2008.

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## Appendix

### 9.1 Photographs of the device under test



**Front & Back Closed**



**Front & Back Open**



**Sides Closed**



**Top & Bottom Closed**



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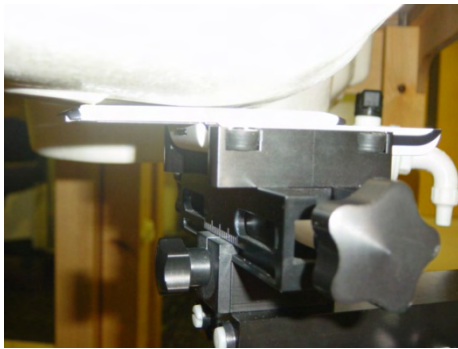
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## 9.2 Device position at SAM Twin Phantom



*DUT position towards the head Slider Open: Cheek (touch) position*



*DUT position towards the head Slider Open: Tilt (touch + 15°) position*



*DUT position towards the head Slider Closed: Cheek and Tilt (touch + 15°) positions*

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*DUT position towards the body with Slider Closed and 15 mm distance*

### **9.3 Attachments**

- System validation
- Measurement plots for head and body position
- Probe calibration
- Dipole calibration



Date/Time: 7/1/2009 11:13:52 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara1,8-Body-WLAN-High****DUT: Sara; Type:DUT; Serial:#15728**

Communication System: WLAN; Frequency: 2462 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.95$  mho/m;  $\epsilon_r = 50$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(3.94, 3.94, 3.94); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 3/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.135 mW/g

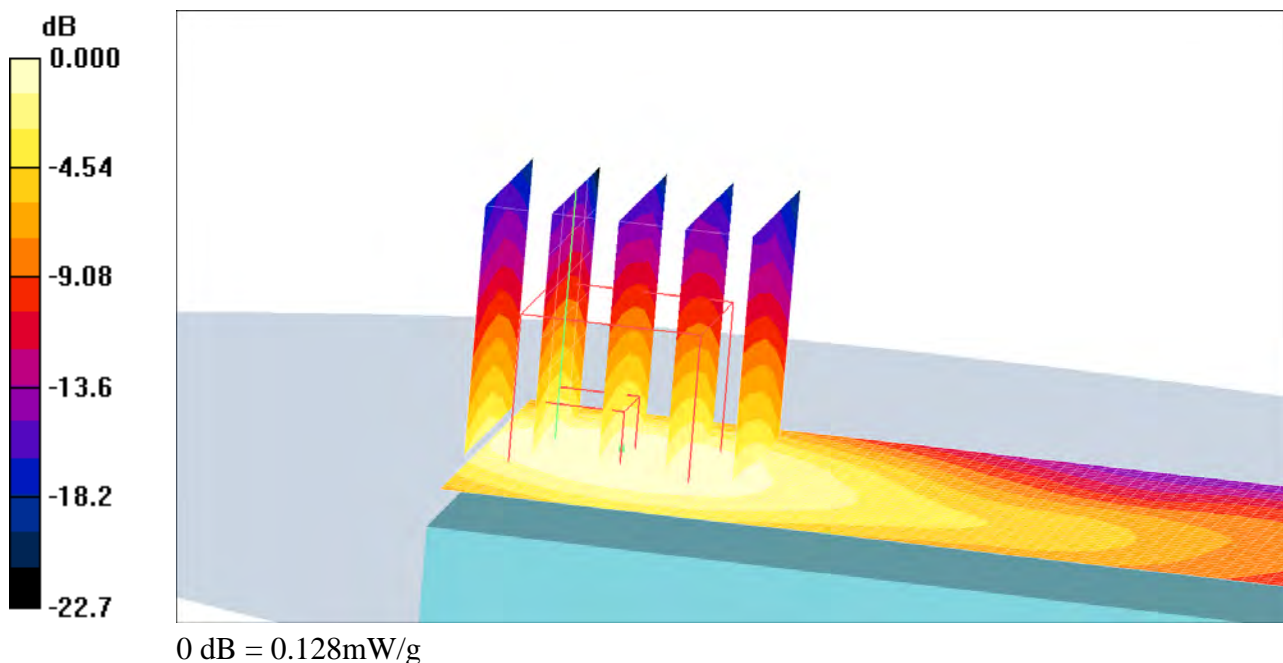
**Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.28 V/m; Power Drift = -0.377 dB

Peak SAR (extrapolated) = 0.289 W/kg

**SAR(1 g) = 0.129 mW/g; SAR(10 g) = 0.071 mW/g**

Maximum value of SAR (measured) = 0.128 mW/g



Date/Time: 7/1/2009 9:37:12 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara1,8-Body-WLAN-Low****DUT: Sara; Type:DUT; Serial:#15728**

Communication System: WLAN; Frequency: 2412 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.92$  mho/m;  $\epsilon_r = 50.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(3.94, 3.94, 3.94); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASYS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

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

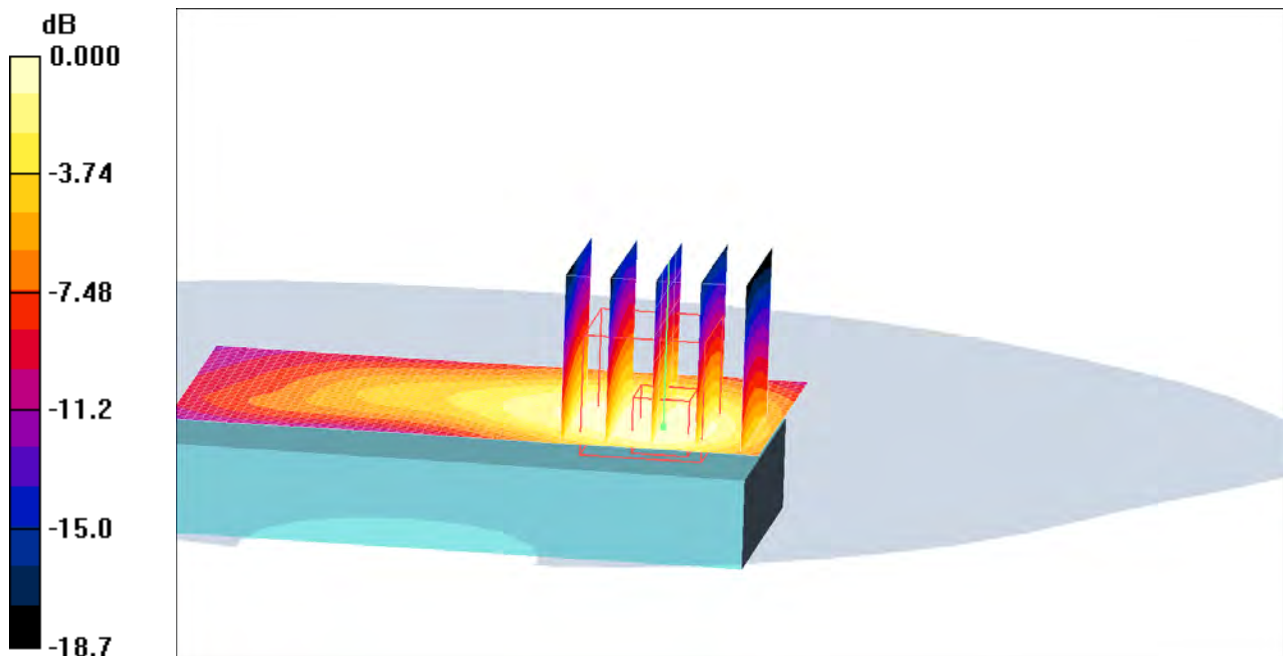
**Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.95 V/m; Power Drift = -0.421 dB

Peak SAR (extrapolated) = 0.180 W/kg

**SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.047 mW/g**

Maximum value of SAR (measured) = 0.087 mW/g



0 dB = 0.087mW/g

Date/Time: 7/1/2009 9:51:46 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara1,8-Body-WLAN-Middle****DUT: Sara; Type:DUT; Serial:#15728**

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 50.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(3.94, 3.94, 3.94); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 2/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.129 mW/g

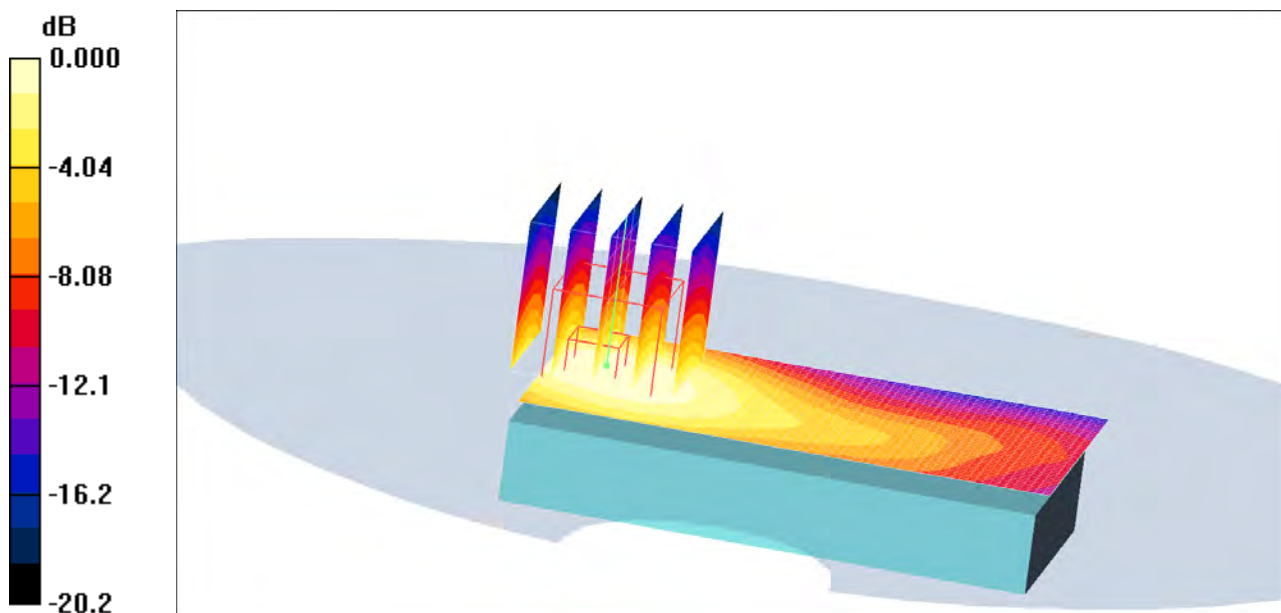
**Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.05 V/m; Power Drift = -0.260 dB

Peak SAR (extrapolated) = 0.281 W/kg

**SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.070 mW/g**

Maximum value of SAR (measured) = 0.131 mW/g



0 dB = 0.131mW/g

Date/Time: 6/19/2009 10:37:36 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara-1900-GPRS-High****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.59$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 3/Area Scan (41x81x1):** Measurement grid: dx=15mm, dy=15mm

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

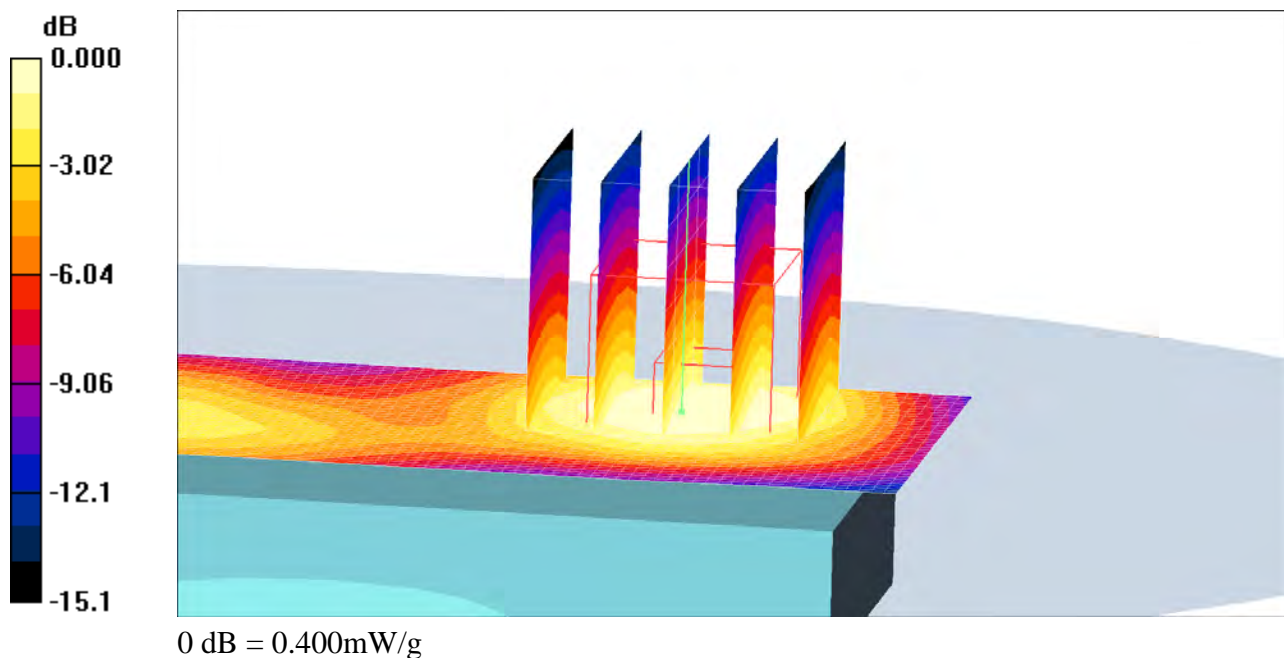
**Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.22 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.624 W/kg

**SAR(1 g) = 0.379 mW/g; SAR(10 g) = 0.229 mW/g**

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



Date/Time: 6/19/2009 10:49:56 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara-1900-GPRS-Low****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body/Area Scan (41x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.587 mW/g

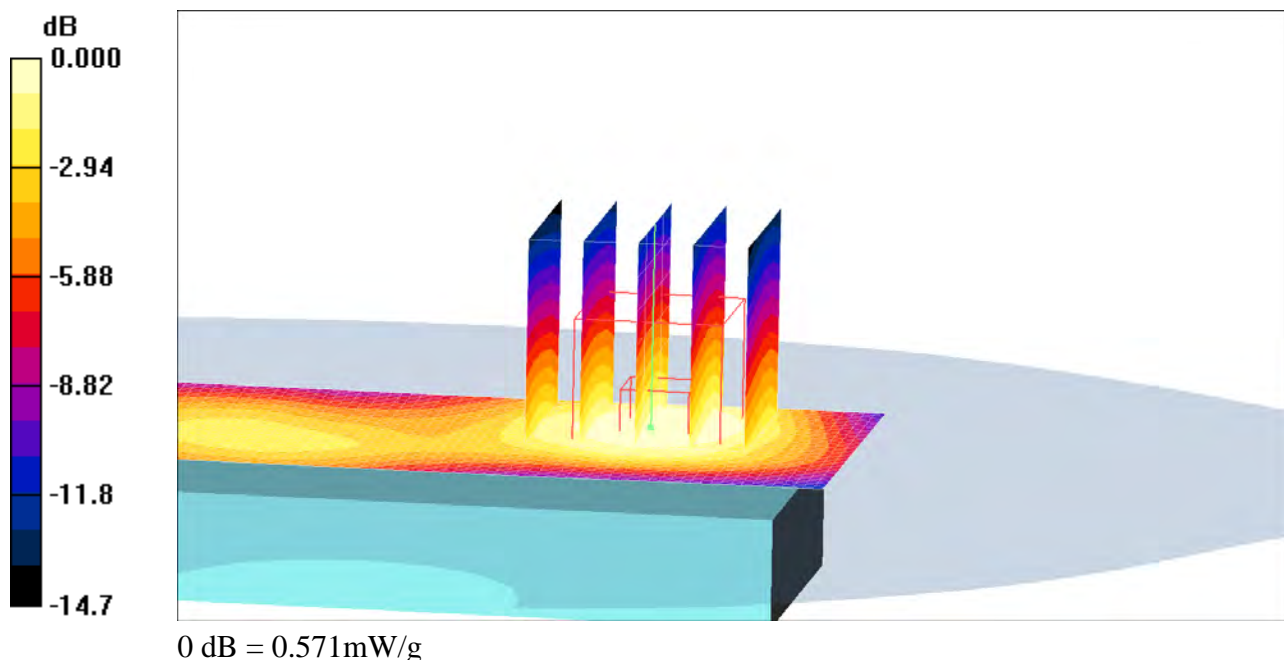
**Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.835 W/kg

**SAR(1 g) = 0.533 mW/g; SAR(10 g) = 0.332 mW/g**

Maximum value of SAR (measured) = 0.571 mW/g



Date/Time: 6/19/2009 11:01:46 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara-1900-GPRS-Middle****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4.15

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.55$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 2/Area Scan (41x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.445 mW/g

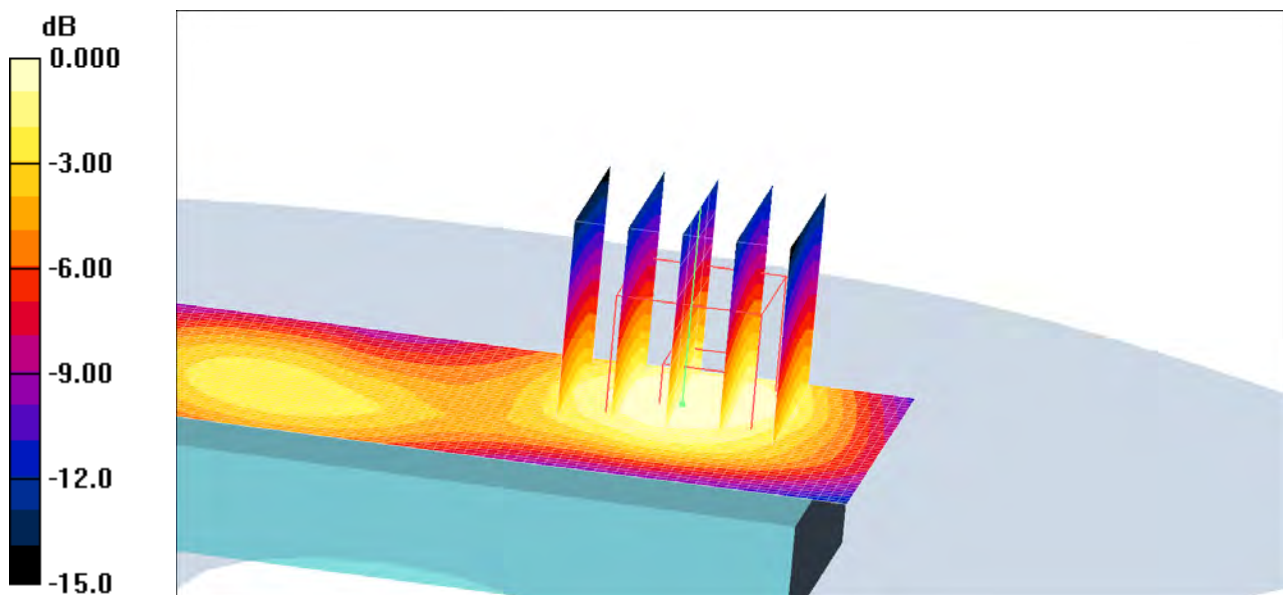
**Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.4 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.650 W/kg

**SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.248 mW/g**

Maximum value of SAR (measured) = 0.428 mW/g



0 dB = 0.428mW/g



Date/Time: 6/19/2009 12:11:57 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara-1900-Speech-Low-PHF****DUT: Sara; Type: DUT; Serial: #15623**

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

Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.52$  mho/m;  $\epsilon_r = 50.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body - PHF/Area Scan (41x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.335 mW/g

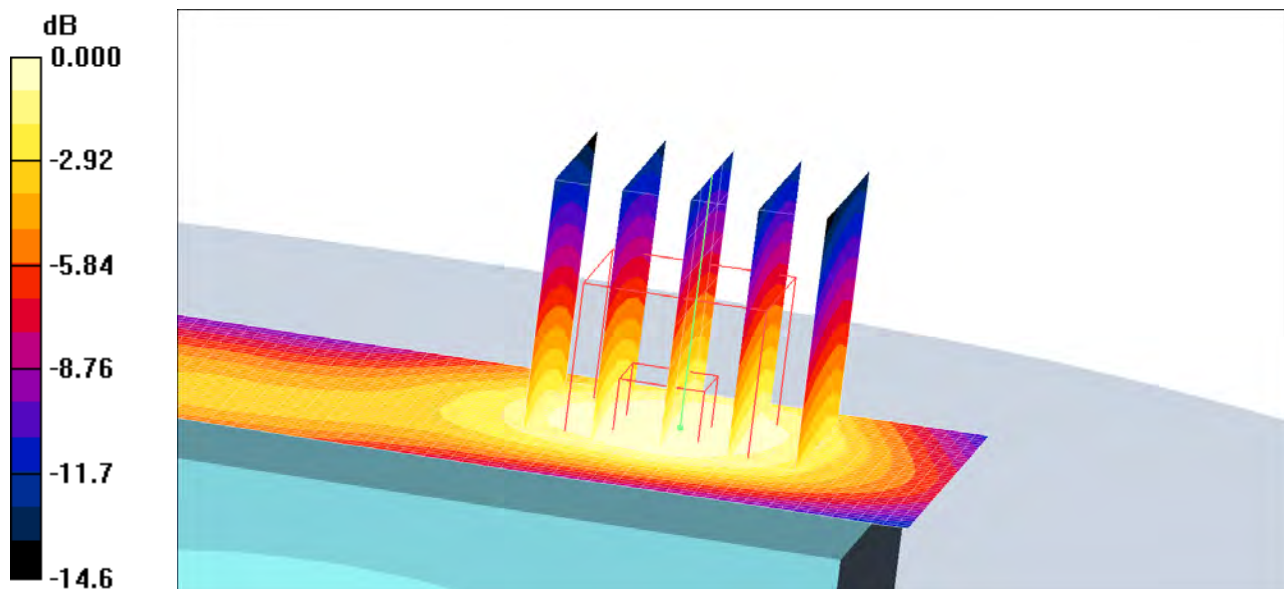
**Body - PHF/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.0 V/m; Power Drift = -0.039 dB

Peak SAR (extrapolated) = 0.474 W/kg

**SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.190 mW/g**

Maximum value of SAR (measured) = 0.319 mW/g



Date/Time: 6/26/2009 10:18:52 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara-850-GPRS-High****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:4.15

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.99$  mho/m;  $\epsilon_r = 52.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 3/Area Scan (41x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.834 mW/g

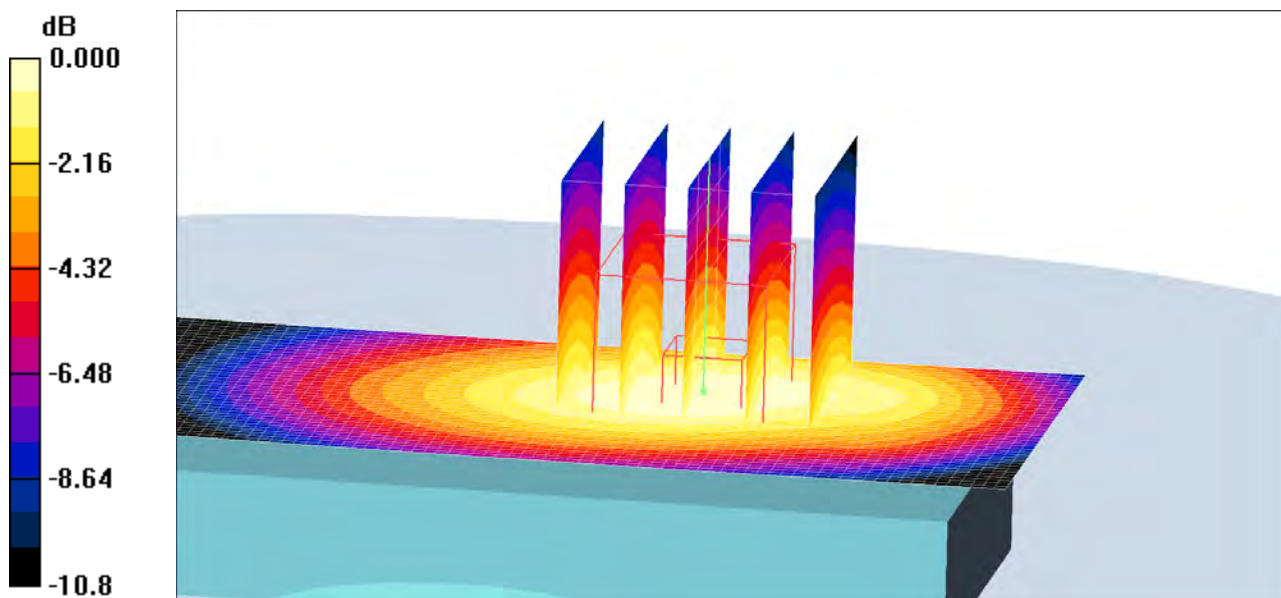
**Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.7 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.783 mW/g; SAR(10 g) = 0.552 mW/g**

Maximum value of SAR (measured) = 0.838 mW/g



0 dB = 0.838mW/g



Date/Time: 6/26/2009 9:56:57 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara-850-GPRS-Low****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 53$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body/Area Scan (41x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.29 mW/g

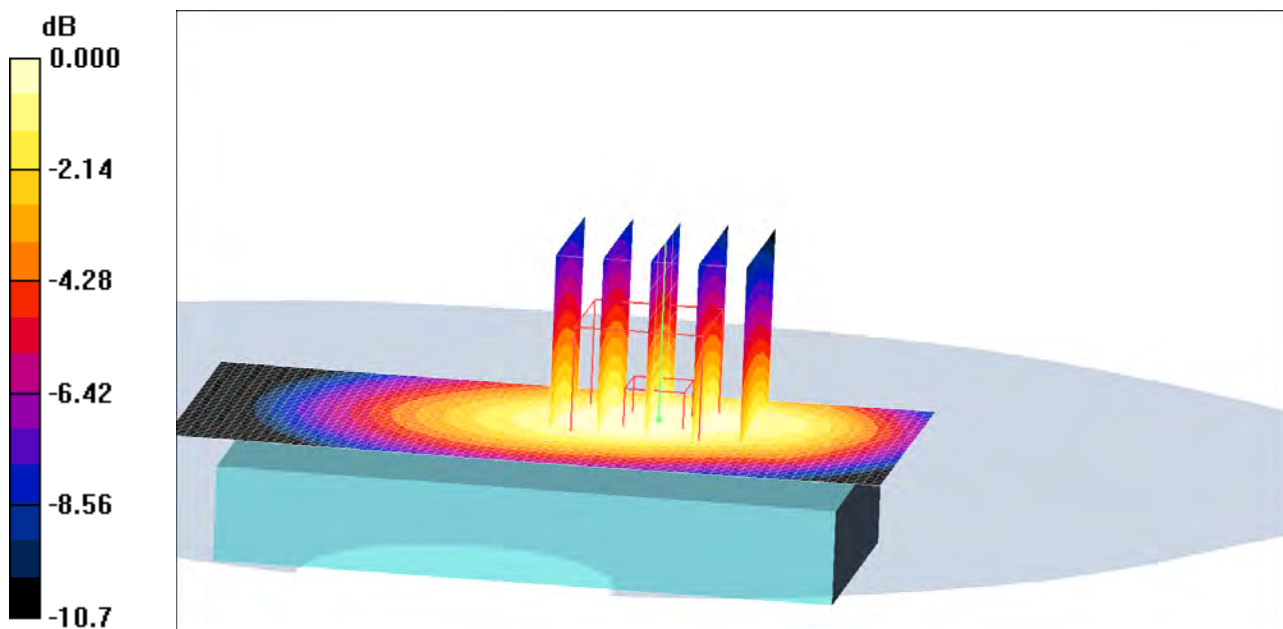
**Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.9 V/m; Power Drift = -0.203 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.842 mW/g**

Maximum value of SAR (measured) = 1.27 mW/g



Date/Time: 6/26/2009 10:08:05 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara-850-GPRS-Middle****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:4.15

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 2/Area Scan (41x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.07 mW/g

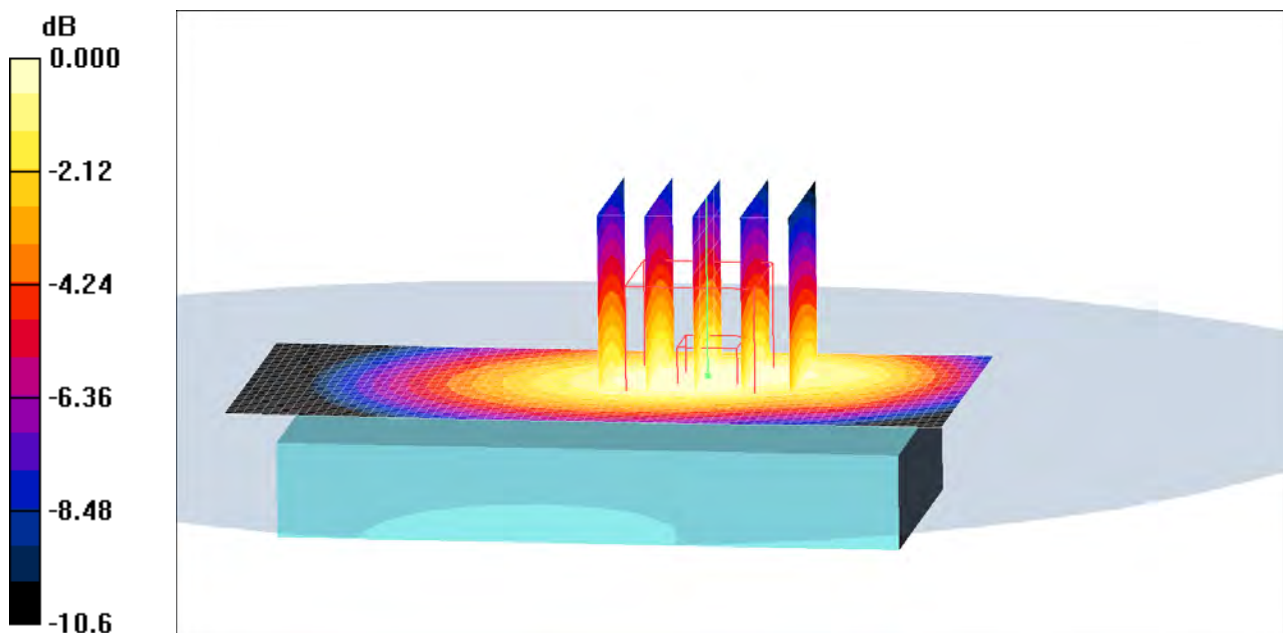
**Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.3 V/m; Power Drift = 0.033 dB

Peak SAR (extrapolated) = 1.29 W/kg

**SAR(1 g) = 1.01 mW/g; SAR(10 g) = 0.717 mW/g**

Maximum value of SAR (measured) = 1.07 mW/g



Date/Time: 6/26/2009 11:21:31 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-Sara-850-Speech-Middle****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body 2/Area Scan (41x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.983 mW/g

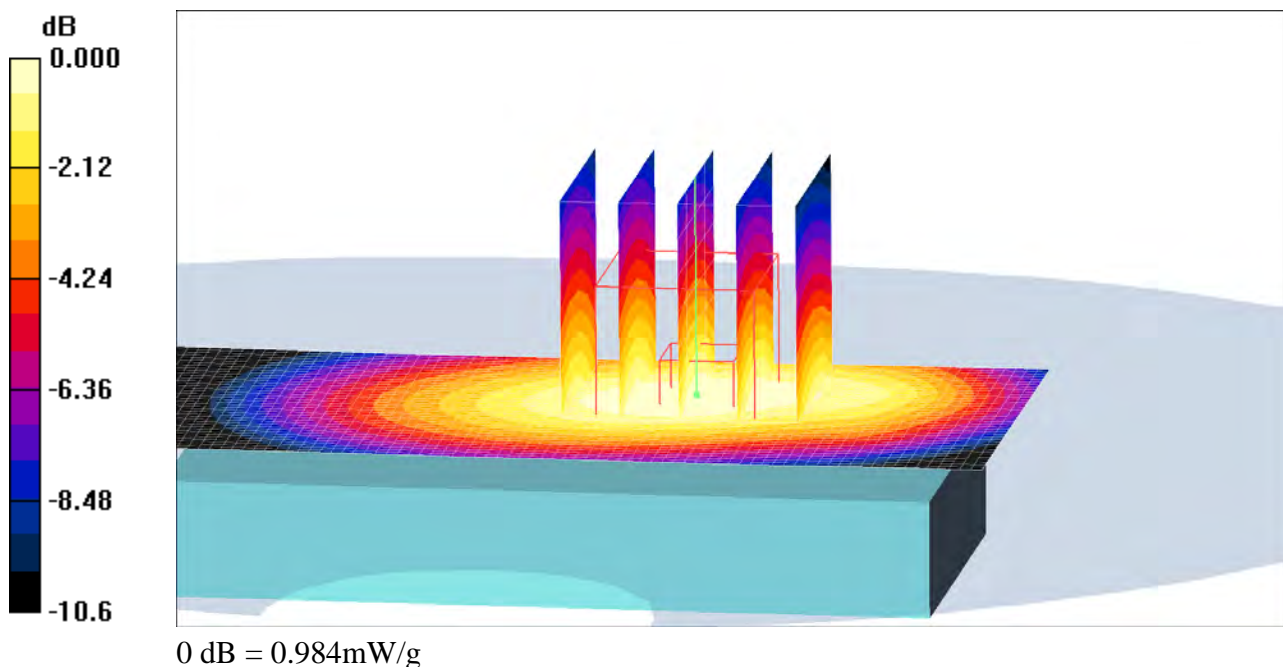
**Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.9 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.928 mW/g; SAR(10 g) = 0.657 mW/g**

Maximum value of SAR (measured) = 0.984 mW/g



Date/Time: 6/30/2009 10:53:31 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara1,8-LeftHandSide-WLAN-Tilt-Middle****DUT: Sara; Type: DUT; Serial: #15728**

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 37.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASYS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Tilt position - Slider Closed/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.044 mW/g

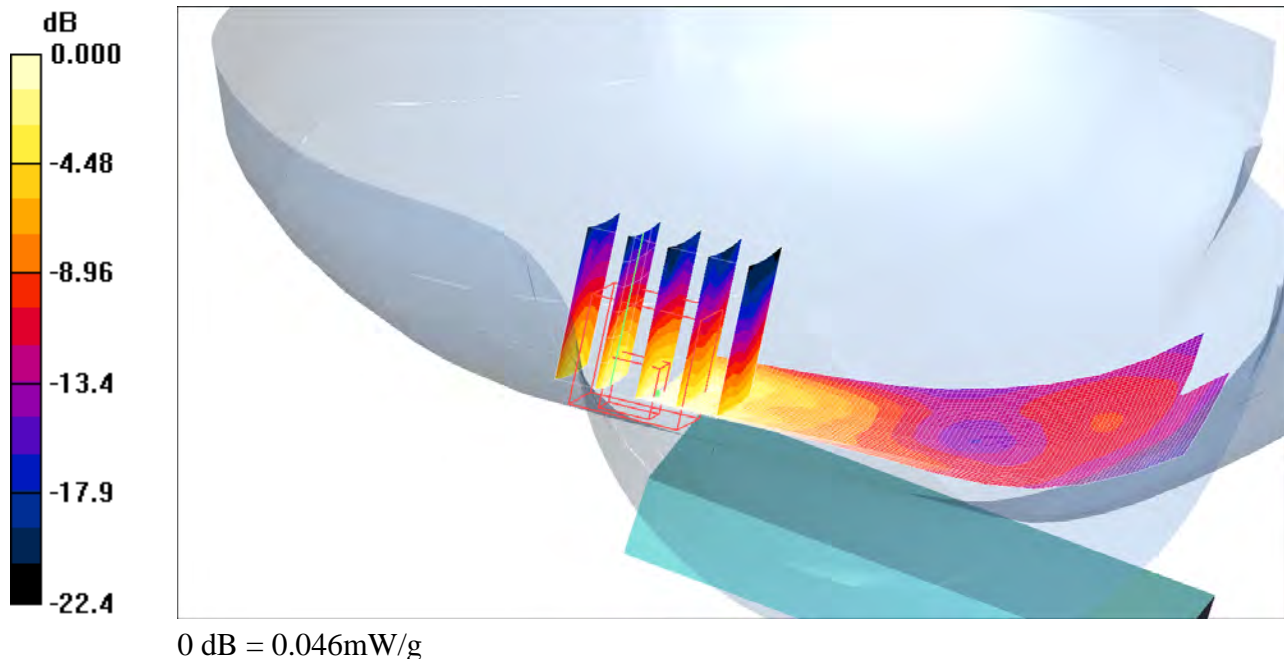
**Tilt position - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.00 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.097 W/kg

**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.022 mW/g**

Maximum value of SAR (measured) = 0.046 mW/g



Date/Time: 6/30/2009 10:32:44 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara1,8-LeftHandSide-WLAN-Touch-Middle****DUT: Sara; Type: DUT; Serial: #15728**

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1

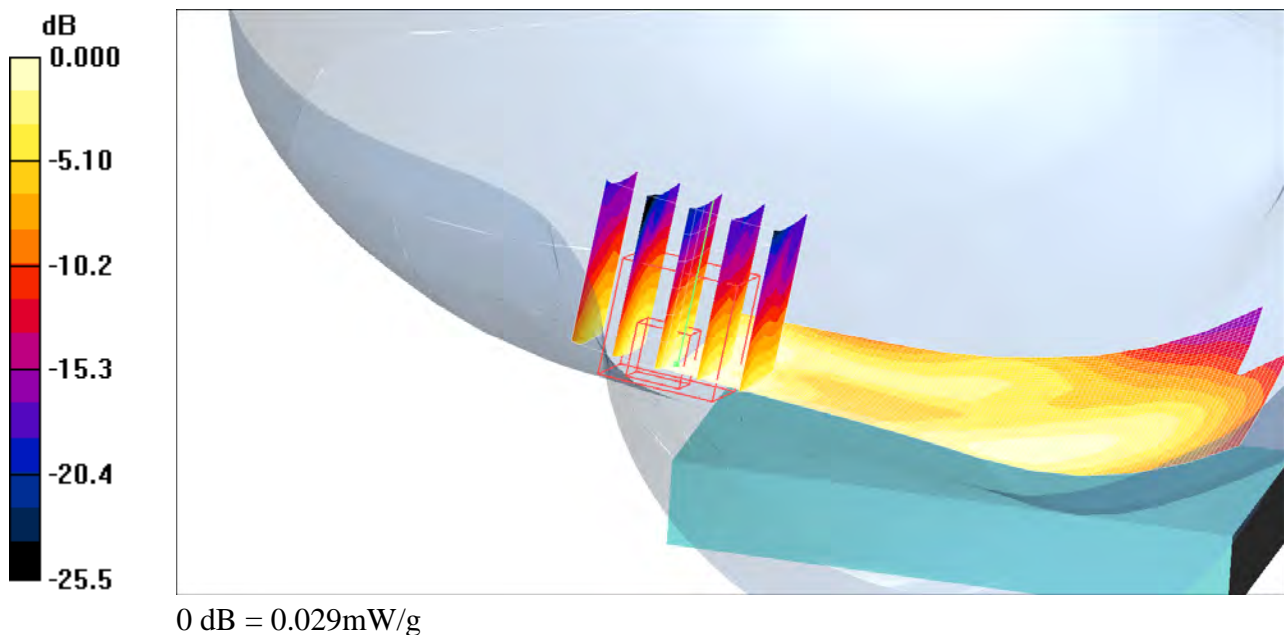
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 37.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Slider Closed/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.028 mW/g
- Touch position - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 3.53 V/m; Power Drift = -0.078 dB  
Peak SAR (extrapolated) = 0.058 W/kg  
**SAR(1 g) = 0.028 mW/g; SAR(10 g) = 0.014 mW/g**  
Maximum value of SAR (measured) = 0.029 mW/g





Date/Time: 6/30/2009 2:44:23 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara1,8-RightHandSide-WLAN-Tilt-High-Fcc****DUT: Sara; Type:DUT; Serial:#15728**

Communication System: WLAN; Frequency: 2462 MHz;Duty Cycle: 1:1

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 37.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASYS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Tilt position - High - Slider Closed/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.077 mW/g

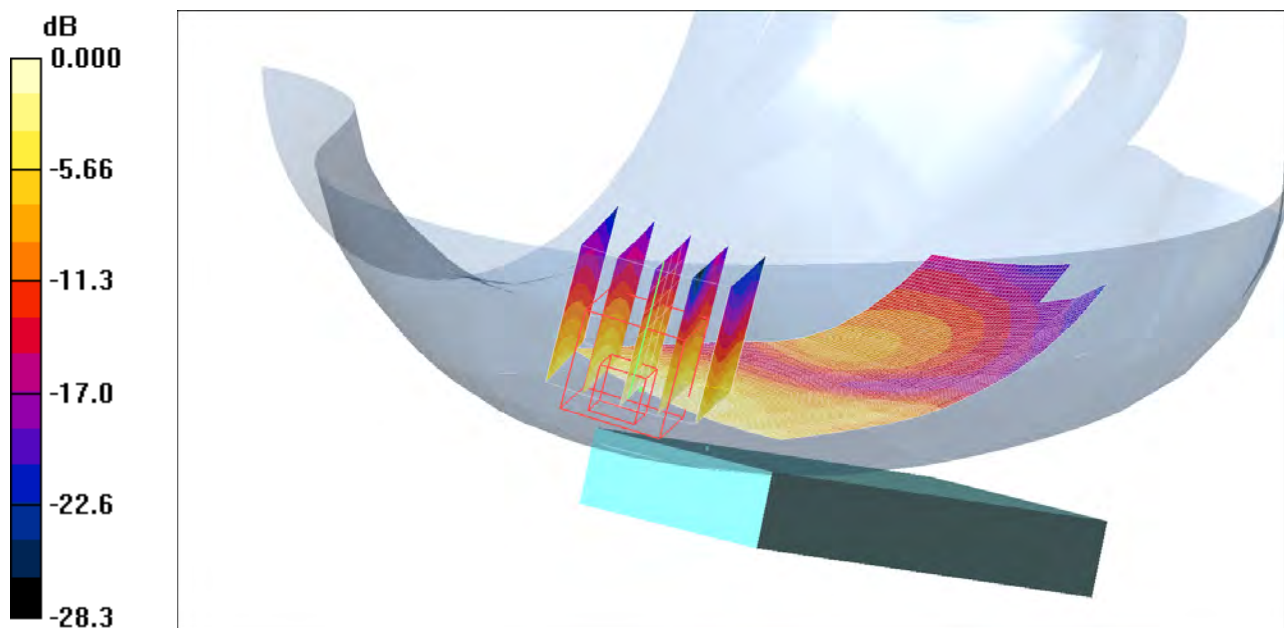
**Tilt position - High - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.35 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.177 W/kg

**SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.040 mW/g**

Maximum value of SAR (measured) = 0.089 mW/g



0 dB = 0.089mW/g

Date/Time: 6/30/2009 12:48:44 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara1,8-RightHandSide-WLAN-Touch-Middle****DUT: Sara; Type:DUT; Serial:#15728**

Communication System: WLAN; Frequency: 2437 MHz;Duty Cycle: 1:1

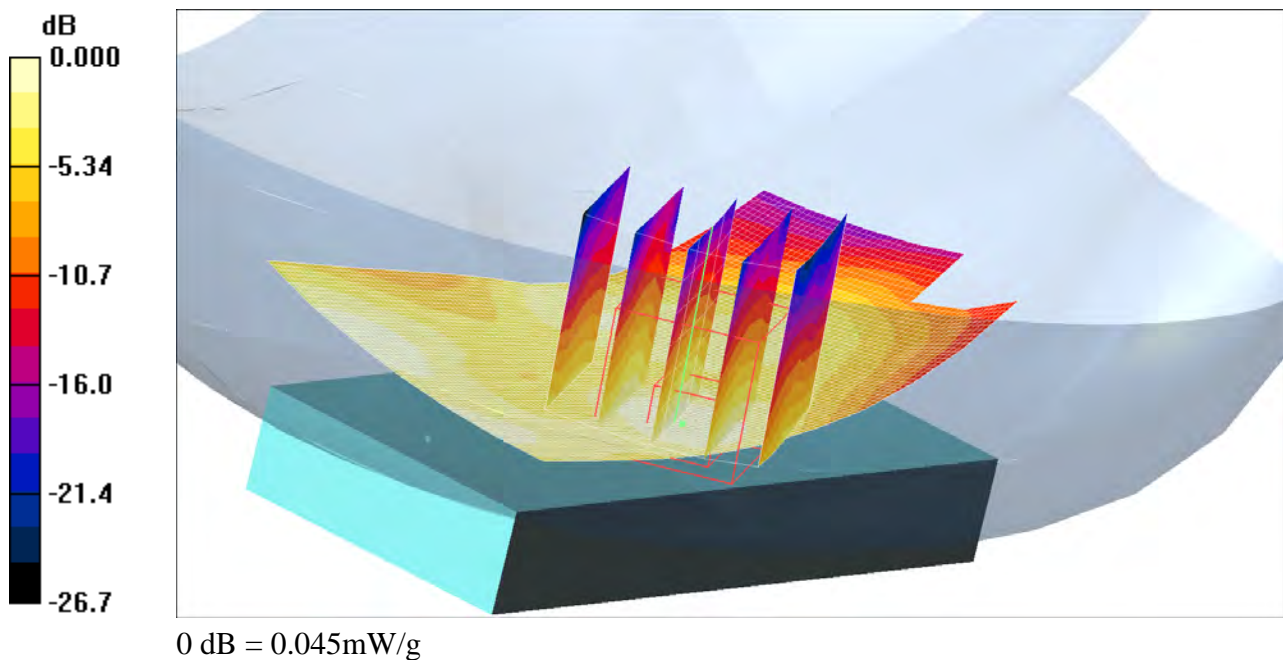
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 37.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Middle - Slider Closed/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.045 mW/g
- Touch position - Middle - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 4.03 V/m; Power Drift = -0.044 dB  
Peak SAR (extrapolated) = 0.091 W/kg  
**SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.020 mW/g**  
Maximum value of SAR (measured) = 0.045 mW/g



Date/Time: 6/18/2009 10:38:56 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara-LeftHandSide-GSM1900-Tilt-Middle****DUT: Sara; Type: DUT; Serial: #15623**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Tilt position - Middle - Slider Closed/Area Scan (61x111x1):** Measurement grid:  
dx=10mm, dy=10mm

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

**Tilt position - Middle - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**

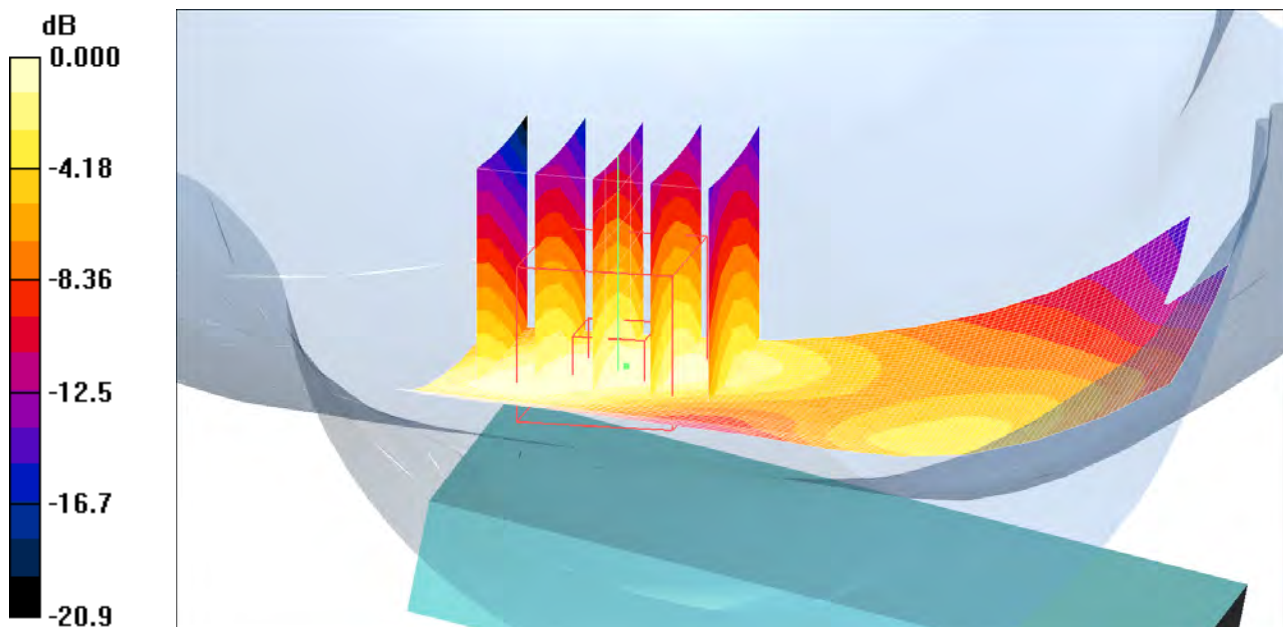
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.42 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 0.186 W/kg

**SAR(1 g) = 0.123 mW/g; SAR(10 g) = 0.074 mW/g**

Maximum value of SAR (measured) = 0.135 mW/g



0 dB = 0.135mW/g



Date/Time: 6/18/2009 10:23:27 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara-LeftHandSide-GSM1900-Touch-Middle****DUT: Sara; Type: DUT; Serial: #15623**

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

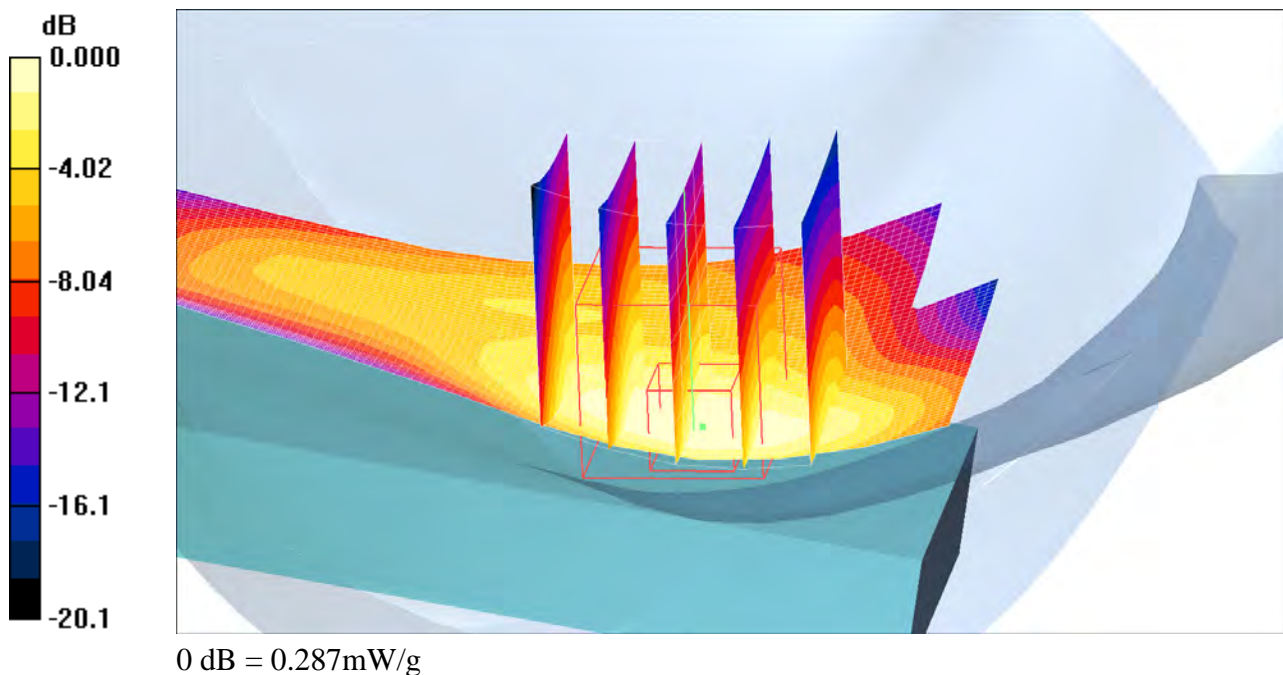
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Middle - Slider Closed/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.293 mW/g
- Touch position - Middle - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**  
Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.46 V/m; Power Drift = -0.032 dB  
Peak SAR (extrapolated) = 0.452 W/kg  
**SAR(1 g) = 0.258 mW/g; SAR(10 g) = 0.146 mW/g**  
Maximum value of SAR (measured) = 0.287 mW/g



Date/Time: 6/16/2009 9:06:26 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara-LeftHandSide-GSM850-Tilt-Middle****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

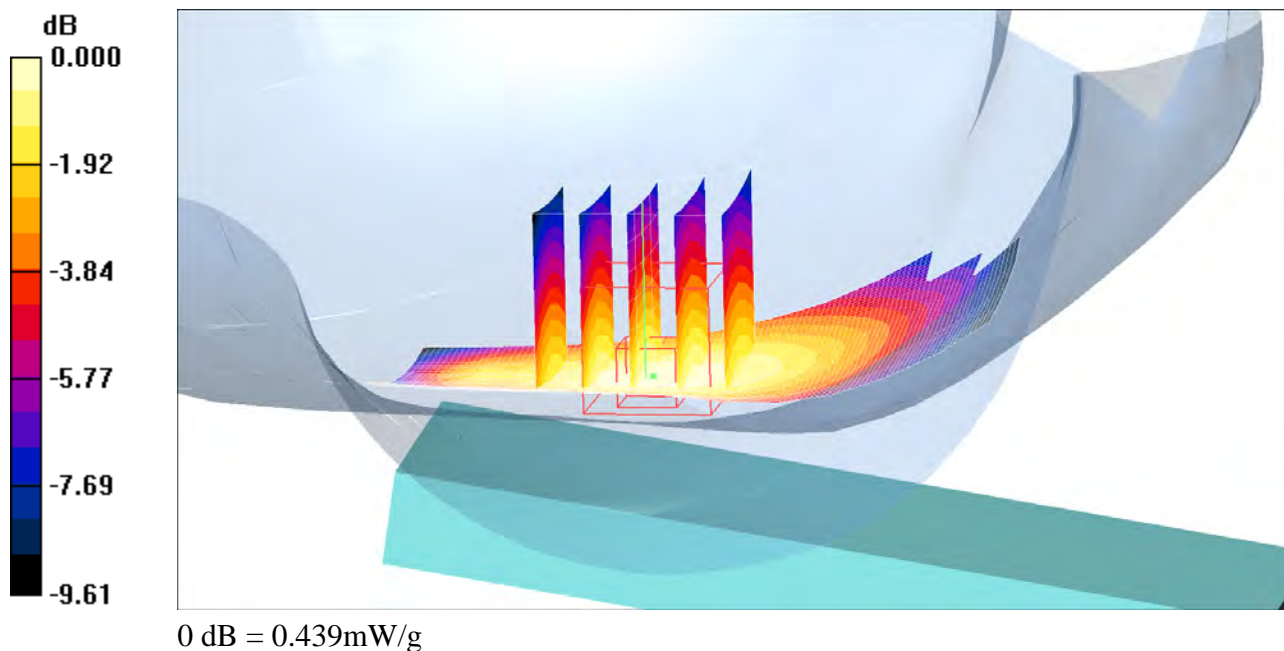
Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon_r = 40.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-2; Type: SAM; Serial: 1025
  - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x11x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.436 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 17.1 V/m; Power Drift = -0.011 dB  
Peak SAR (extrapolated) = 0.501 W/kg  
**SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.303 mW/g**  
Maximum value of SAR (measured) = 0.439 mW/g



Date/Time: 6/16/2009 10:18:24 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara-LeftHandSide-GSM850-Touch-High****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GSM 850; Frequency: 848.8 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 40.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASYS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Touch position - High/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.03 mW/g

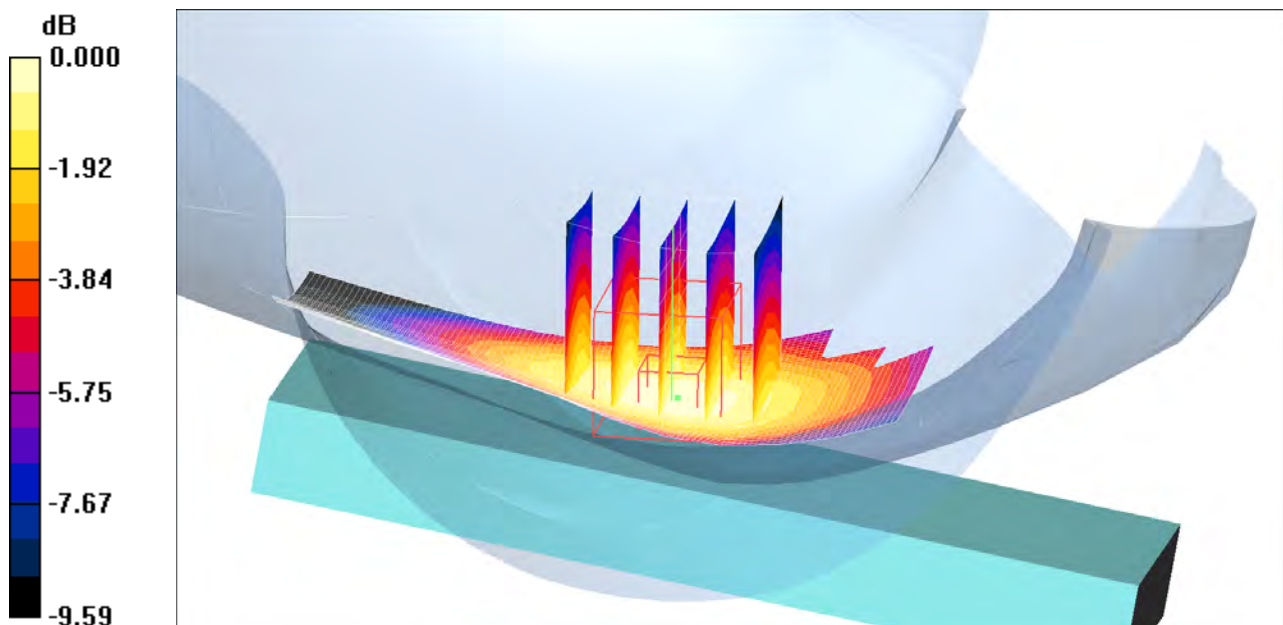
**Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = -0.057 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.955 mW/g; SAR(10 g) = 0.706 mW/g**

Maximum value of SAR (measured) = 1.03 mW/g



0 dB = 1.03mW/g

Date/Time: 6/18/2009 1:29:51 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara-RightHandSide-GSM1900-Tilt-Middle****DUT: Sara; Type: DUT; Serial: #15623**

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

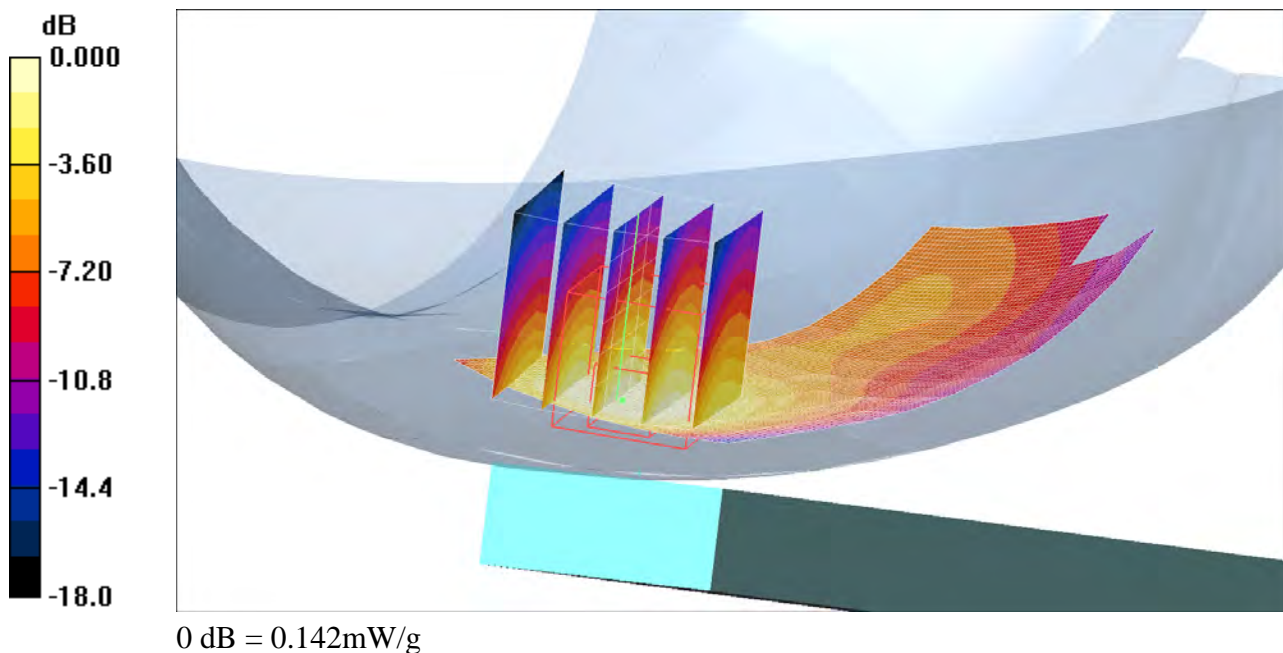
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.45$  mho/m;  $\epsilon_r = 38.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.149 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 10.0 V/m; Power Drift = 0.005 dB  
Peak SAR (extrapolated) = 0.197 W/kg  
**SAR(1 g) = 0.131 mW/g; SAR(10 g) = 0.078 mW/g**  
Maximum value of SAR (measured) = 0.142 mW/g



Date/Time: 6/18/2009 3:00:47 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara-RightHandSide-GSM1900-Touch-Low****DUT: Sara; Type: DUT; Serial: #15623**

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

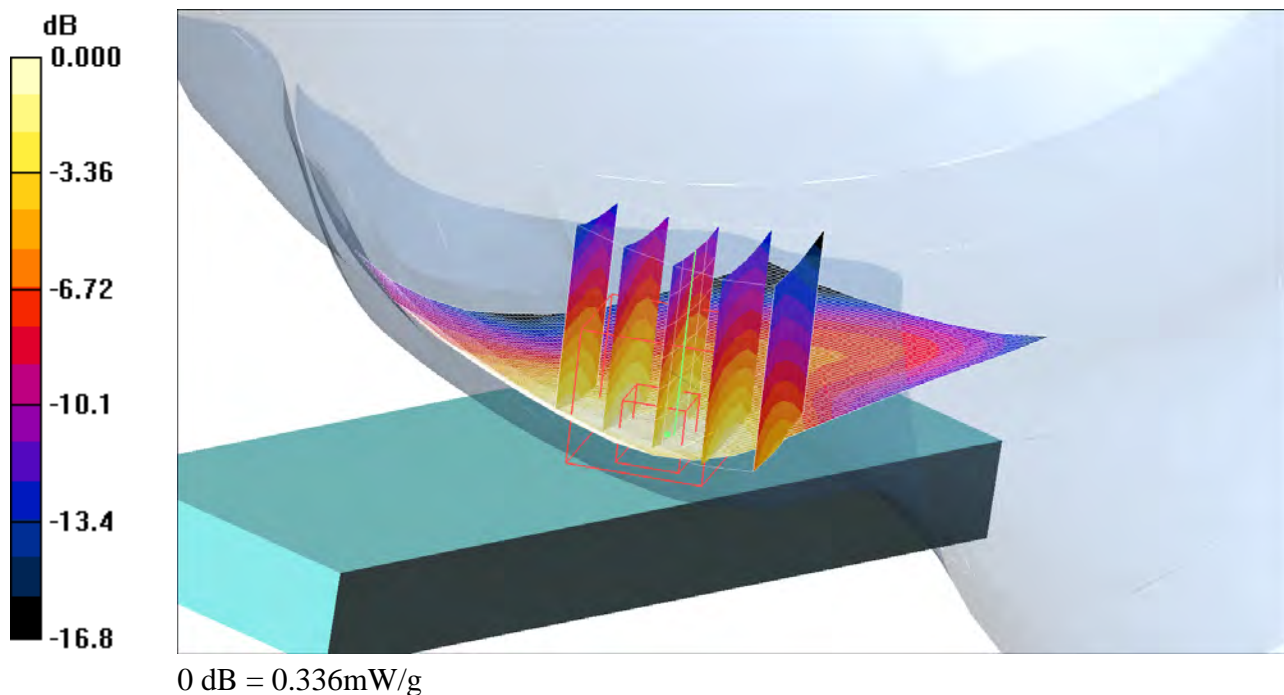
Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 38.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Low/Area Scan (61x11x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.341 mW/g
- Touch position - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 6.15 V/m; Power Drift = -0.059 dB  
Peak SAR (extrapolated) = 0.456 W/kg  
**SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.191 mW/g**  
Maximum value of SAR (measured) = 0.336 mW/g





Date/Time: 6/16/2009 11:41:38 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara-RightHandSide-GSM850-Tilt-Middle****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

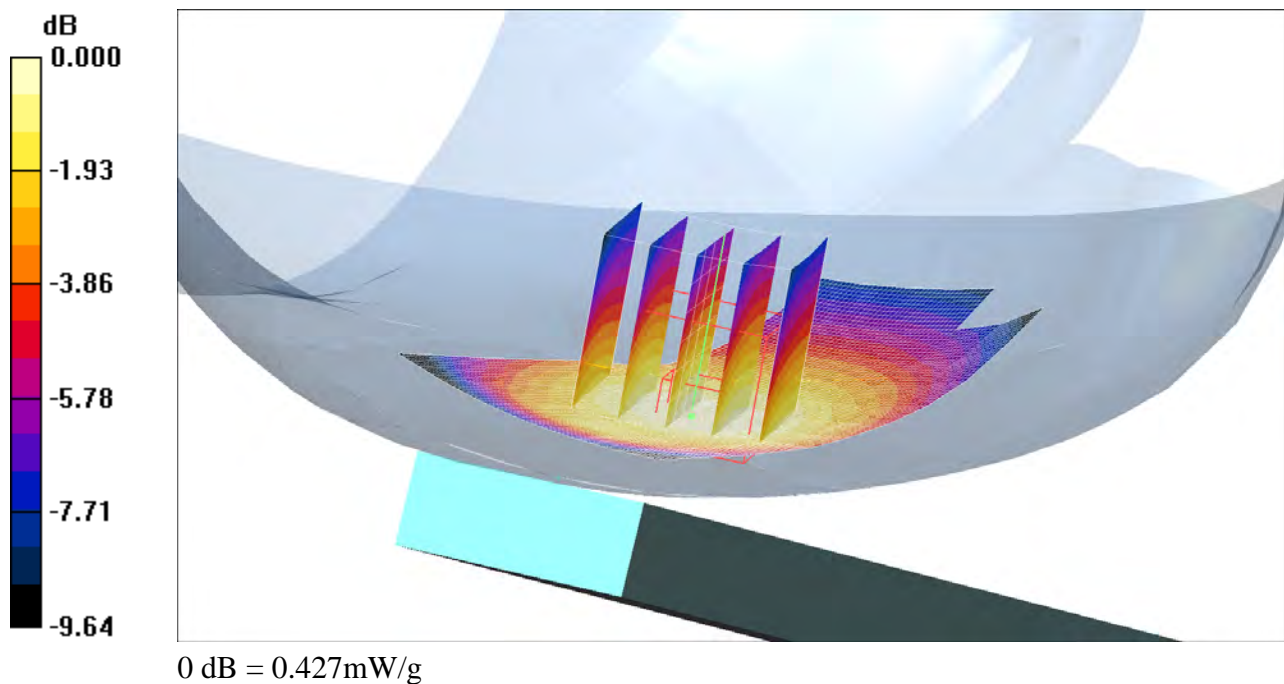
Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon_r = 40.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS44 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-2; Type: SAM; Serial: 1025
  - Measurement SW: DAS44, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Tilt position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 0.437 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 17.3 V/m; Power Drift = 0.023 dB  
Peak SAR (extrapolated) = 0.481 W/kg  
**SAR(1 g) = 0.407 mW/g; SAR(10 g) = 0.305 mW/g**  
Maximum value of SAR (measured) = 0.427 mW/g



Date/Time: 6/16/2009 11:26:18 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Sara-RightHandSide-GSM850-Touch-Middle****DUT: Sara; Type: DUT; Serial: #15623**

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon_r = 40.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Touch position - Middle/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.762 mW/g

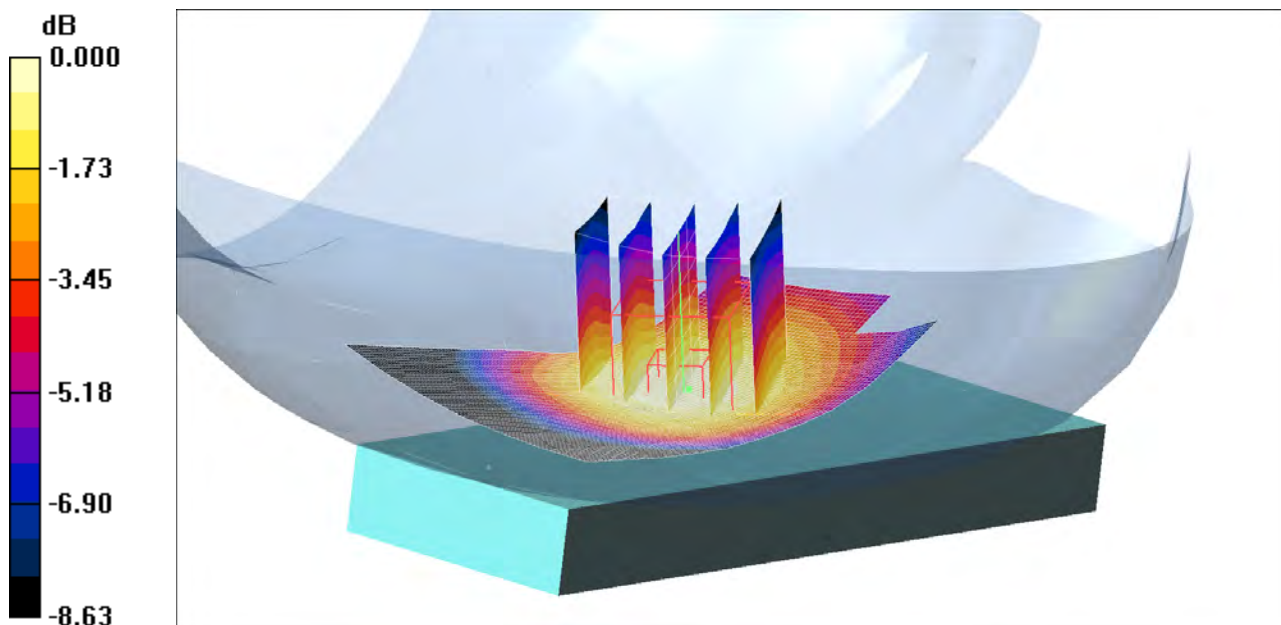
**Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = 0.015 dB

Peak SAR (extrapolated) = 0.855 W/kg

**SAR(1 g) = 0.724 mW/g; SAR(10 g) = 0.544 mW/g**

Maximum value of SAR (measured) = 0.761 mW/g



0 dB = 0.761mW/g

Date/Time: 6/18/2009 9:17:59 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D1900-18-06-09****DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

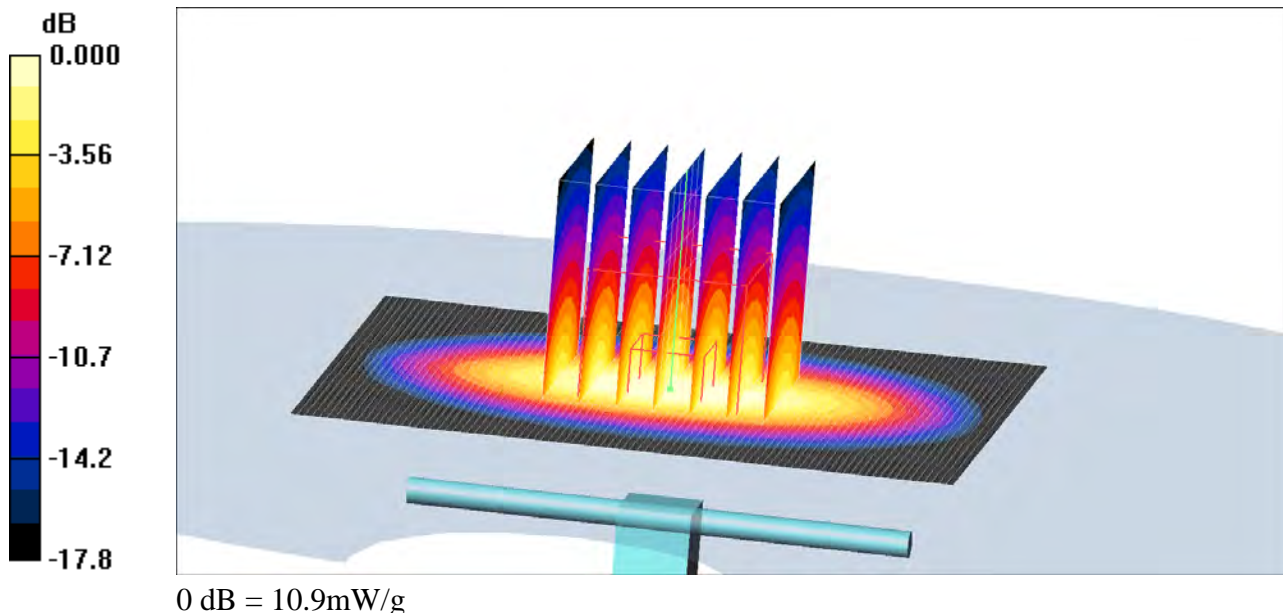
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 38.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 10.8 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 89.5 V/m; Power Drift = 0.051 dB  
Peak SAR (extrapolated) = 17.3 W/kg  
**SAR(1 g) = 9.58 mW/g; SAR(10 g) = 4.97 mW/g**  
Maximum value of SAR (measured) = 10.9 mW/g





Date/Time: 6/19/2009 8:06:00 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D1900-Body-19-06-09****DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

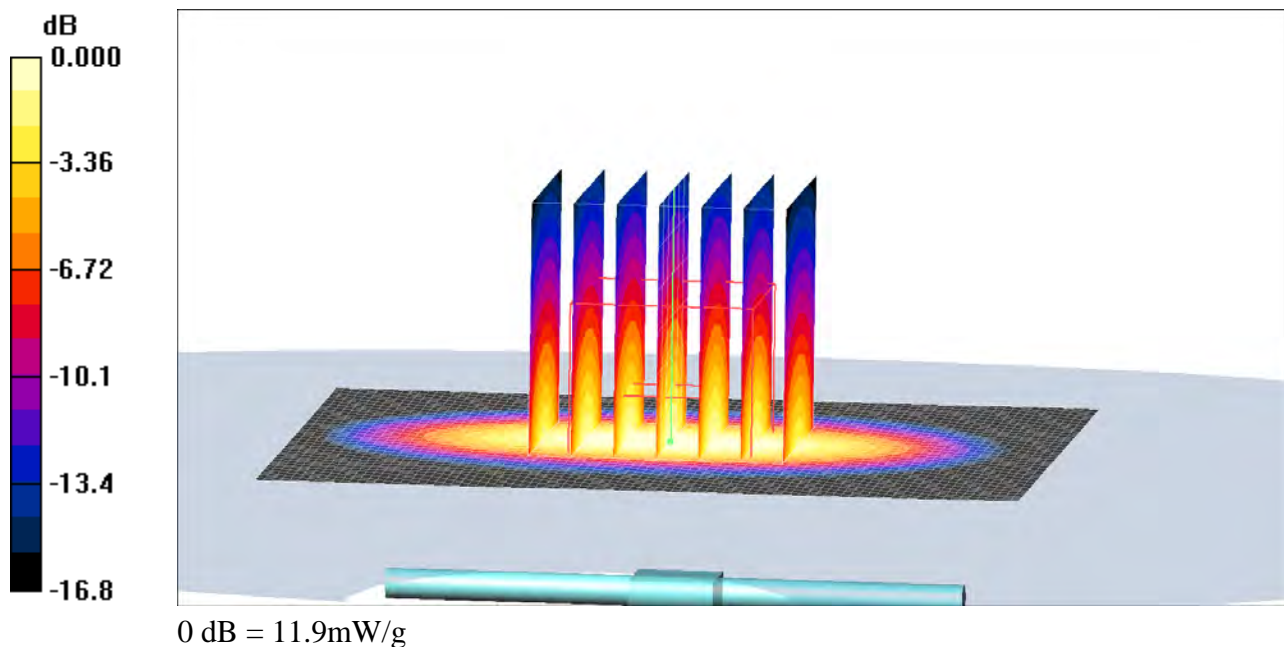
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.59$  mho/m;  $\epsilon_r = 50.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DASYS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 12.0 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 90.6 V/m; Power Drift = -0.023 dB  
Peak SAR (extrapolated) = 18.8 W/kg  
**SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.55 mW/g**  
Maximum value of SAR (measured) = 11.9 mW/g



Date/Time: 6/30/2009 9:27:48 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D2450-30-06-09****DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

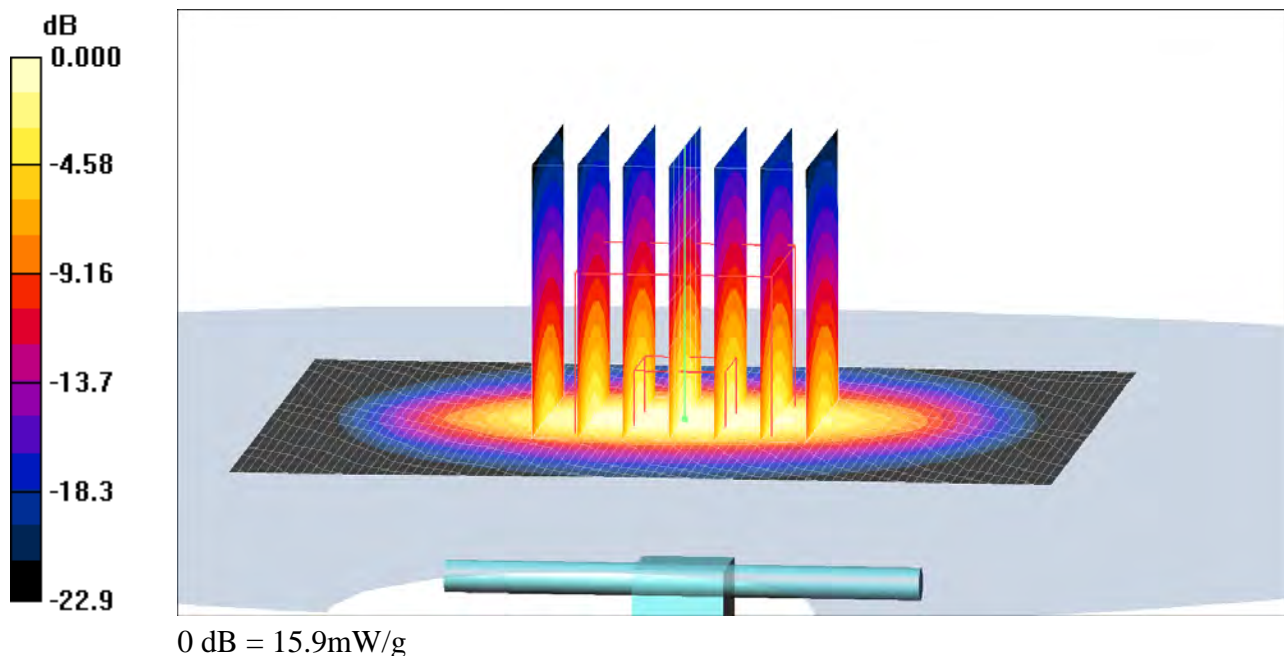
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.87$  mho/m;  $\epsilon_r = 37.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 16.1 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 93.3 V/m; Power Drift = 0.080 dB  
Peak SAR (extrapolated) = 33.0 W/kg  
**SAR(1 g) = 14.3 mW/g; SAR(10 g) = 6.46 mW/g**  
Maximum value of SAR (measured) = 15.9 mW/g



Date/Time: 7/1/2009 8:37:57 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D2450-31-06-09****DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

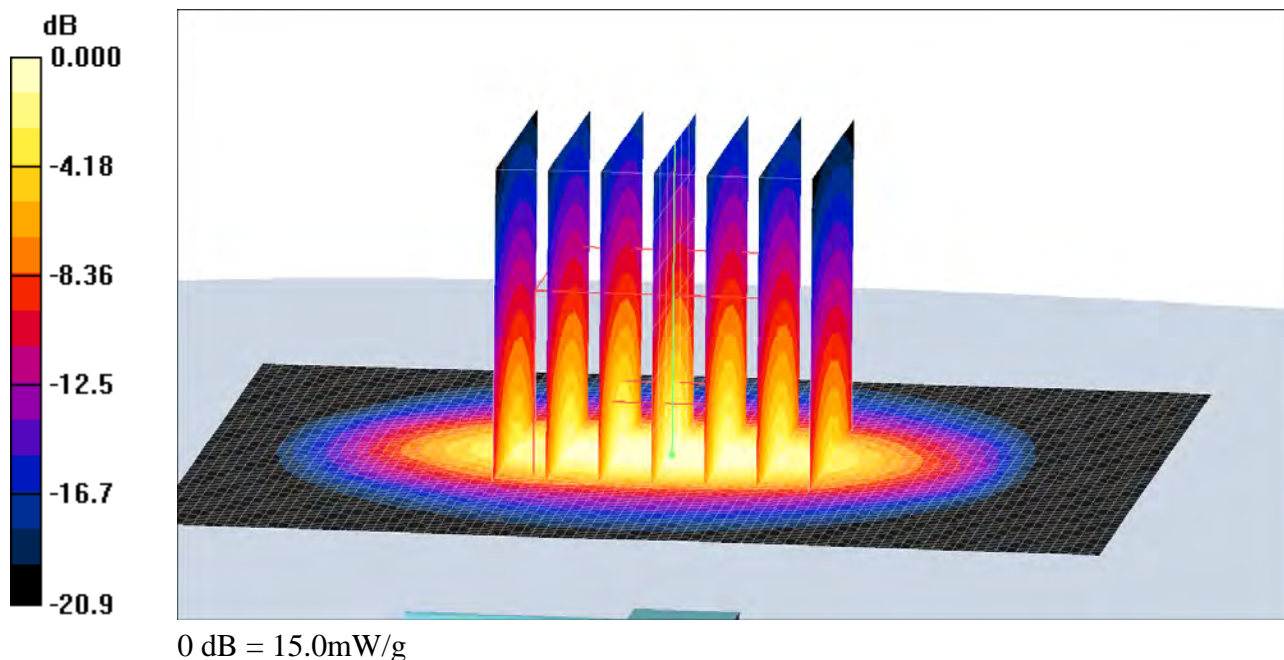
Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 50.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(3.94, 3.94, 3.94); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 15.1 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 90.6 V/m; Power Drift = -0.008 dB  
Peak SAR (extrapolated) = 29.2 W/kg  
**SAR(1 g) = 13.3 mW/g; SAR(10 g) = 6.21 mW/g**  
Maximum value of SAR (measured) = 15.0 mW/g



Date/Time: 6/15/2009 3:27:30 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D850-15-06-09****DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

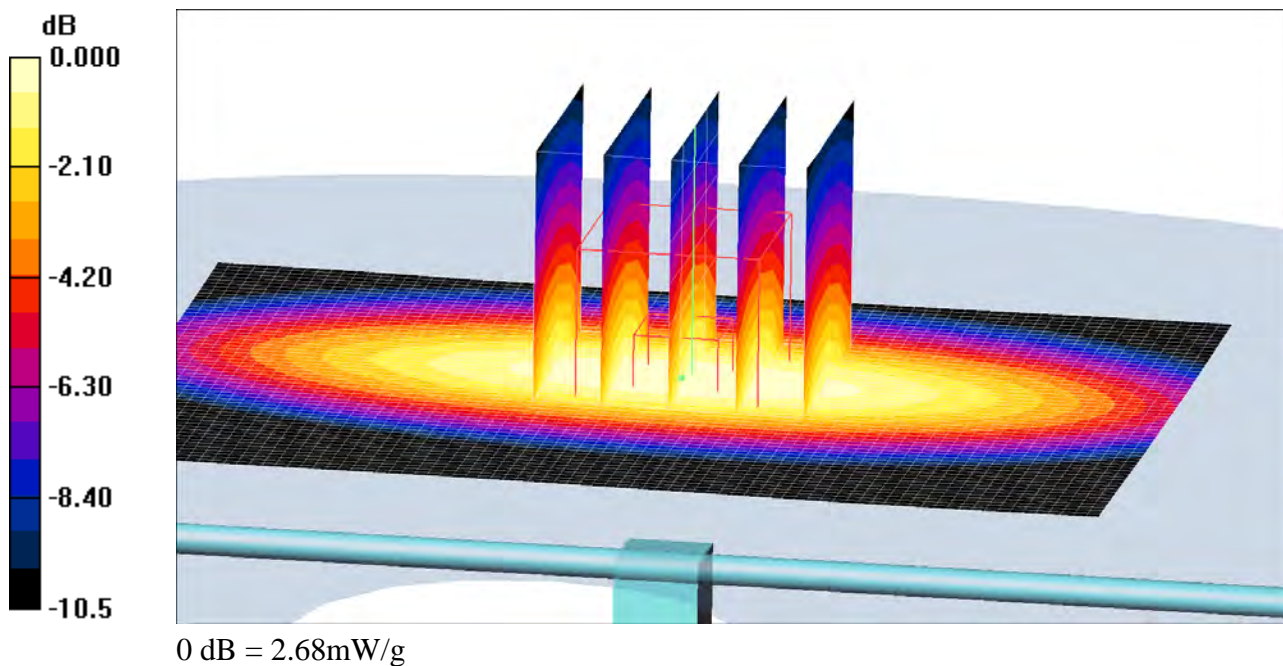
Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.88$  mho/m;  $\epsilon_r = 40.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-2; Type: SAM; Serial: 1025
  - Measurement SW: DASYS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 2.65 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 57.8 V/m; Power Drift = -0.010 dB  
Peak SAR (extrapolated) = 3.46 W/kg  
**SAR(1 g) = 2.48 mW/g; SAR(10 g) = 1.64 mW/g**  
Maximum value of SAR (measured) = 2.68 mW/g





Date/Time: 6/26/2009 9:12:34 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D850-Body-26-06-09****DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

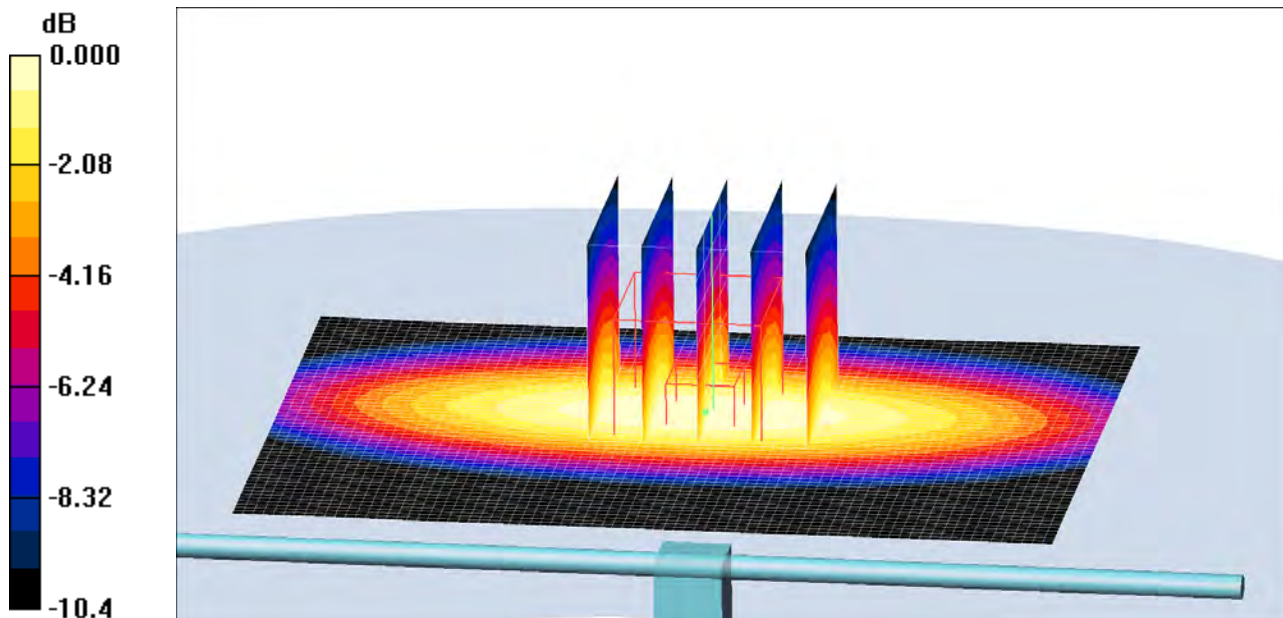
Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
  - Phantom: SAM-3; Type: SAM; Serial: 1436
  - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (interpolated) = 2.71 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 54.6 V/m; Power Drift = 0.050 dB  
Peak SAR (extrapolated) = 3.45 W/kg  
**SAR(1 g) = 2.52 mW/g; SAR(10 g) = 1.68 mW/g**  
Maximum value of SAR (measured) = 2.72 mW/g



0 dB = 2.72mW/g