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BA/SEMC/CCMVAU Rob Carr

Approved

LD/SEMC/CCMVALEC Peter Lindeborg

Checked

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Company Internal REPORT

No.

CCDA09:639.

Date

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Report issued by Accredited SAR Laboratory

for

FCC ID: PY7A3880067 (J10)

Date of test: November 27<sup>th</sup> to December 9<sup>th</sup> 2009

Laboratory: Sony Ericsson SAR Test Laboratory  
Sony Ericsson Mobile Communications AB  
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Statement of Compliance

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

**Sony Ericsson Type AAD-3880067-BV; FCC ID PY7A3880067; IC 4170B-A3880067**

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: PY7A3880067 (J10) 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 China
<b>Address:</b>	3/F, Building A, Wang Jing High-Tech Park, Beijing, China
<b>Contact Name:</b>	Jacky Liu

# 3 Device Under Test

## 3.1 Antenna Description

<b>Type</b>	Internal antenna	
<b>Location</b>	Bottom of phone	
<b>Main and BT antennas distance</b>	80 mm	
<b>Dimensions</b>	Max length	30 mm
	Max width	15 mm
<b>Configuration</b>	Semi-PIFA	



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### 3.2 Device Description

Device model	AAD-3880067-BV					
Market name	J10					
Serial number (EUT #)	BX9010P426 (#16860)					
Mode	GSM 850			GSM 1900		
Crest factor	8.3			8.3		
Multiple access scheme	TDMA			TDMA		
Channel No.	128	190	251	512	661	885
Measured Power Level [dBm] <sup>1</sup> (#16860)	33.3	33.3	33.4	30.3	30.2	30.2
Product Maximum power Level [dBm] <sup>1</sup>	33.5	33.5	33.5	30.2	30.2	30.2
Data mode	GPRS			GPRS		
Crest factor	4.15			4.15		
Measured Power Level [dBm] <sup>1</sup> (#16860)	30.5	30.4	30.5	27.9	27.9	28.0
Product Maximum power Level [dBm] <sup>1</sup>	30.5	30.5	30.5	28.0	28.0	28.0
Data mode	EDGE			EDGE		
Crest factor	4.15			4.15		
Measured Power Level [dBm] <sup>1</sup> (#16860)	28.0	27.9	27.9	26.9	26.8	26.9
Product Maximum power Level [dBm] <sup>1</sup>	28.0	28.0	28.0	27.0	27.0	27.0
Transmitting frequency range [MHz]	824.0 - 849.0			1850.0 - 1910.0		

GPRS Multislot class	10
EDGE class	10
GPRS Capability class	B
BT class and conducted power	Class 1, 7.99 dBm
Prototype or production unit	Preproduction
Hardware Version	AP1 (#16860)
Software version	R7AA040
Device category	Portable
RF exposure environment	General population / uncontrolled

<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	2010-11
E-field probe ET3DV6	1610	2010-11
Dipole Validation Kit, D835V2	442	2010-12
Dipole Validation Kit, D1900V2	539	2010-12

### 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, 2009-11-27	41.00	0.89	1.00
		Recommended	41.50	0.90	1.00
835	Head	Measured, 2009-12-03	40.24	0.89	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2009-11-30	52.59	0.97	1.00
		Recommended	55.20	0.97	1.00
835	Body	Measured, 2009-12-09	52.49	0.98	1.00
		Recommended	55.20	0.97	1.00
1900	Head	Measured, 2009-12-01	38.46	1.47	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2009-12-03	50.68	1.59	1.00
		Recommended	53.30	1.52	1.00
1900	Body	Measured, 2009-12-09	50.76	1.59	1.00
		Recommended	53.30	1.52	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, 2009-11-27	10.02	41.00	0.89	1.00	22.0
		Recommended	9.34	41.50	0.90	1.00	22.0
835	Head	Measured, 2009-12-03	10.02	40.24	0.89	1.00	21.5
		Recommended	9.34	41.50	0.90	1.00	22.0
835	Body	Measured, 2009-11-30	10.32	52.59	0.97	1.00	22.1
		Recommended	9.85	55.20	0.97	1.00	22.0
835	Body	Measured, 2009-12-09	10.32	52.49	0.98	1.00	21.7
		Recommended	9.85	55.20	0.97	1.00	22.0
1900	Head	Measured, 2009-12-01	38.00	38.46	1.47	1.00	21.7
		Recommended	41.30	40.00	1.40	1.00	22.0
1900	Body	Measured, 2009-12-03	42.80	50.68	1.59	1.00	21.7
		Recommended	41.30	53.30	1.52	1.00	22.0
1900	Body	Measured, 2009-12-09	42.80	50.76	1.59	1.00	22.2
		Recommended	41.30	53.30	1.52	1.00	22.0



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## 7 SAR measurement uncertainty

### *SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880067 (J10) 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 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 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 HPM-61 was connected to the DUT. The measured 1-gram averaged SAR values of the DUT towards the body are provided in Table 2.

Band	Channel	Measured output power <sup>1</sup> [dBm]	Position	Liquid T [°C]	Measured SAR [W/Kg]	
					Left-hand 1g mass	Right-hand 1g mass
GSM 850	128	33.3	Cheek	22.0	0.59	0.60
			Tilt	22.0	-	-
	190	33.3	Cheek	22.0	0.75	0.77
			Tilt	22.0	0.34	0.40
	251	33.4	Cheek	22.0	<b>0.91</b>	0.85
			Tilt	22.0	-	-
GSM1900	512	30.3	Cheek	21.7	0.66	0.90
			Tilt	21.7	-	-
	661	30.2	Cheek	21.7	0.70	0.89
			Tilt	21.7	0.25	0.32
	810	30.2	Cheek	21.7	0.78	<b>1.04</b>
			Tilt	21.7	-	-

**Table 1: SAR measurement result for Sony Ericsson PY7A3880067 telephone at highest possible output power. Measured towards the head.**

<sup>1</sup> The measured output power values were provided by the customer.



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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	30.5	Back / GPRS	22.1	0.72
		33.3	Back / Speech	22.1	0.91
	190	30.4	Back / GPRS	22.1	0.88
		33.3	Back / Speech	22.1	1.13
	251	30.5	Back / GPRS	22.1	1.04
		33.4	Back / Speech	22.1	<b>1.32</b>
		33.4	Back / PHF	22.1	0.79
		30.5	Front / Speech	22.1	0.75
		27.9	Back / Edge	21.7	0.58
		27.9	Back / GPRS	21.7	0.85
GSM 1900	512	30.3	Back / Speech	21.7	0.76
		27.9	Back / GPRS	21.7	0.81
	661	30.2	Back / Speech	21.7	0.78
		28.0	Back / GPRS	21.7	0.98
	810	30.2	Back / Speech	21.7	0.97
		30.2	Back / PHF	21.7	0.95
		28.0	Front / GPRS	21.7	0.49
		26.9	Back / Edge	22.2	0.36
		26.9	Back / Edge	22.2	0.36

Table 2: SAR measurement result for Sony Ericsson PY7A3880067 telephone at highest possible output power. Measured towards the body.

<sup>1</sup> The measured output power 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 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



Sides



Open



Top & Bottom



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## 9.2 Device position at SAM Twin Phantom



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



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



*DUT position towards the body and 15 mm distance*



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### 9.3 Attachments

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

Date/Time: 12/3/2009 8:28:59 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D850-03-12-09****DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

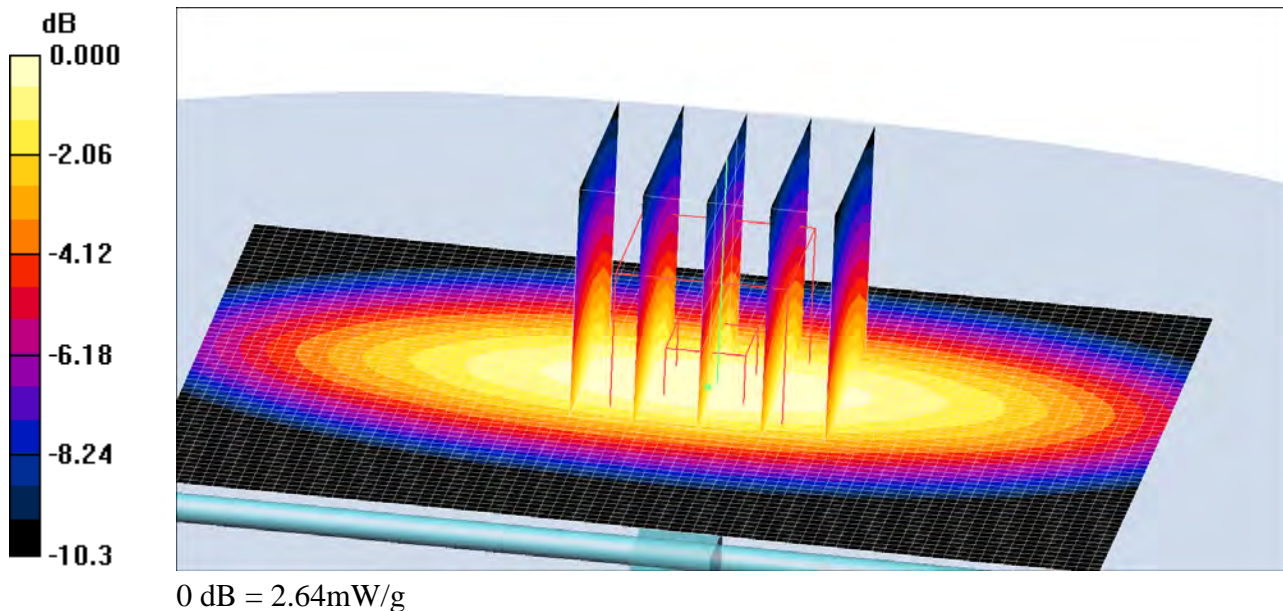
Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - Phantom: SAM-2; Type: SAM; Serial: 1025
  - Measurement SW: DASY4, 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) = 2.63 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 57.3 V/m; Power Drift = -0.013 dB  
Peak SAR (extrapolated) = 3.26 W/kg  
**SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.62 mW/g**  
Maximum value of SAR (measured) = 2.64 mW/g





Date/Time: 11/27/2009 9:33:43 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D850-27-11-09****DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

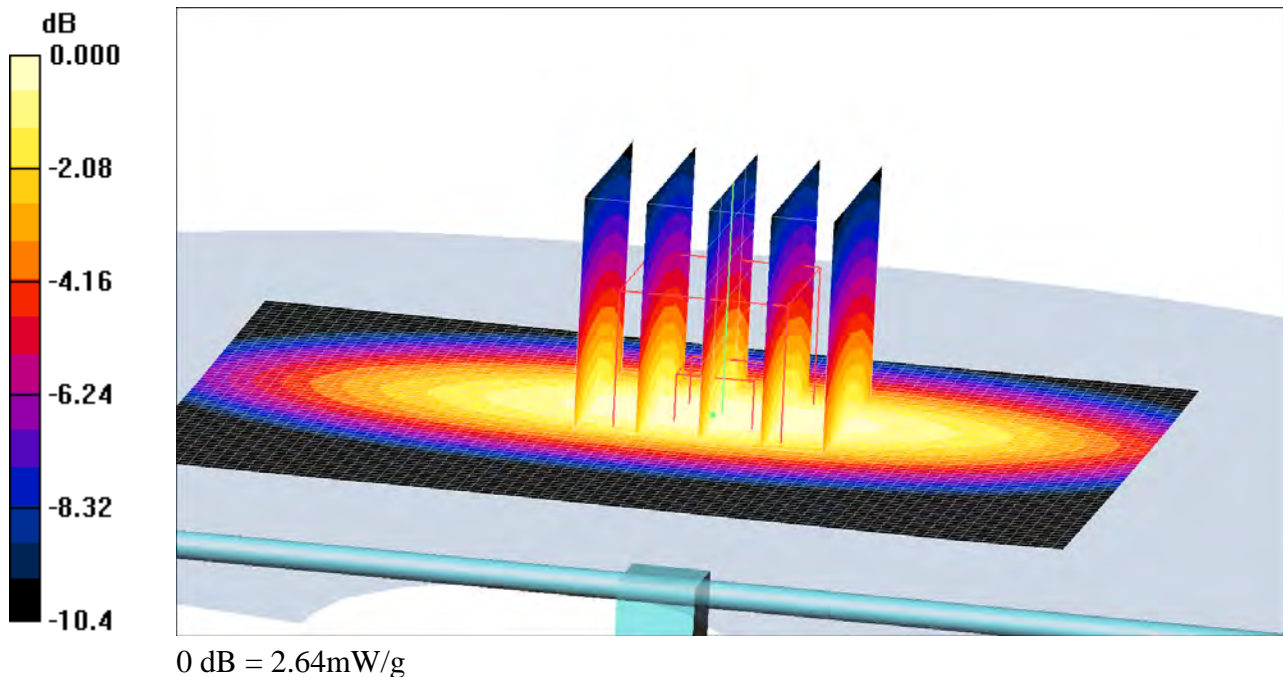
Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 41$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - Phantom: SAM-2; Type: SAM; Serial: 1025
  - 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) = 2.60 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 56.2 V/m; Power Drift = -0.036 dB  
Peak SAR (extrapolated) = 3.25 W/kg  
**SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.61 mW/g**  
Maximum value of SAR (measured) = 2.64 mW/g





Date/Time: 12/9/2009 2:52:41 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D850-Body-09-12-09****DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

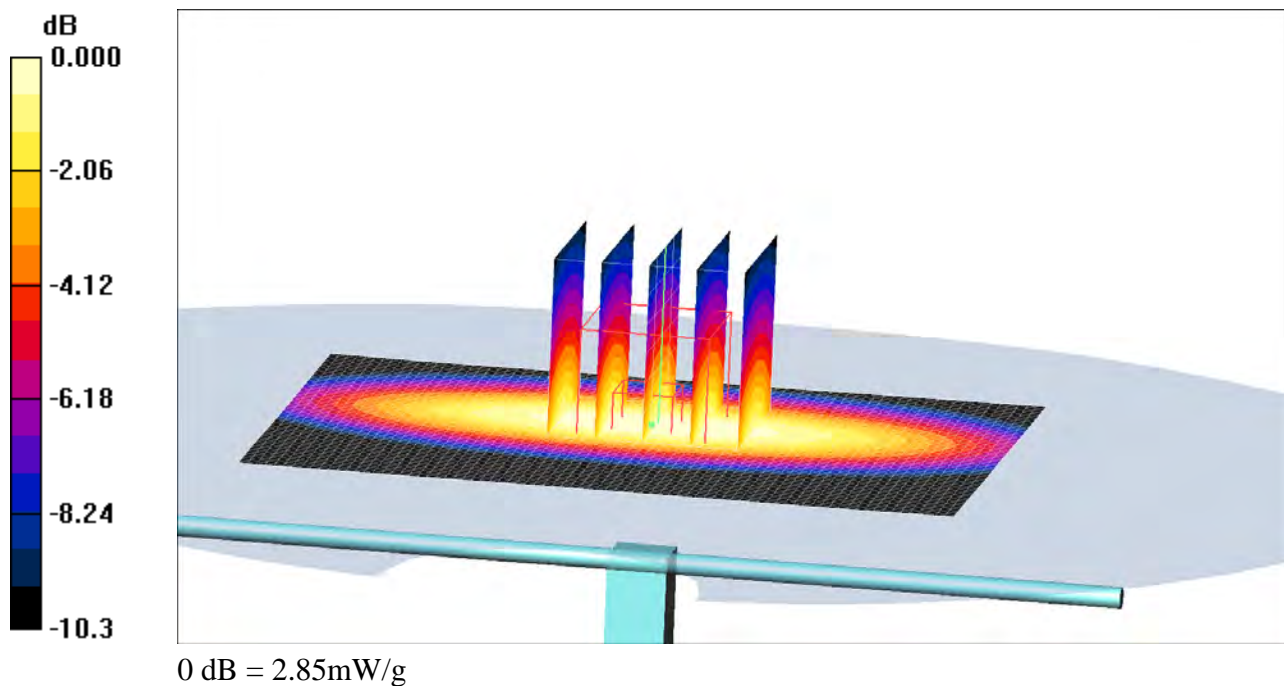
Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 52.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - 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) = 2.82 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 55.3 V/m; Power Drift = 0.001 dB  
Peak SAR (extrapolated) = 3.59 W/kg  
**SAR(1 g) = 2.62 mW/g; SAR(10 g) = 1.74 mW/g**  
Maximum value of SAR (measured) = 2.85 mW/g



Date/Time: 11/30/2009 10:15:21 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D850-Body-30-11-09****DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

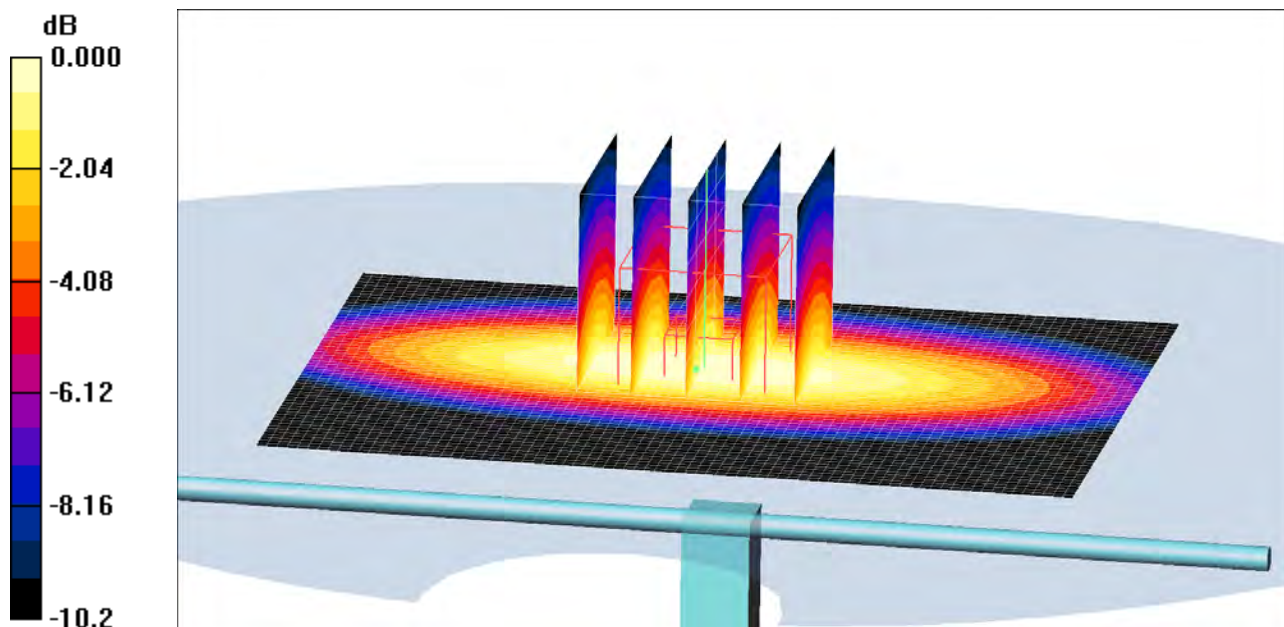
Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - 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) = 2.75 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 55.3 V/m; Power Drift = -0.007 dB  
Peak SAR (extrapolated) = 3.51 W/kg  
**SAR(1 g) = 2.56 mW/g; SAR(10 g) = 1.7 mW/g**  
Maximum value of SAR (measured) = 2.79 mW/g



0 dB = 2.79mW/g

Date/Time: 11/30/2009 1:42:01 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-SusanMLC-850-GPRS-High****DUT: Susan; Type:DUT; Serial:#16860**

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;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 1.11 mW/g

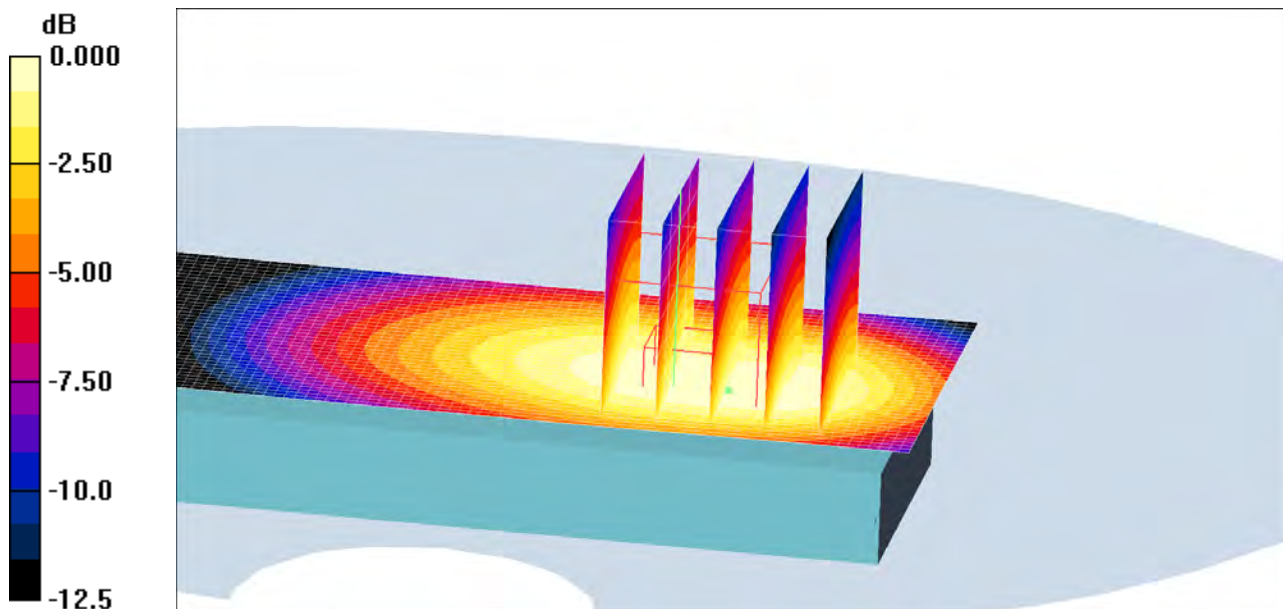
**Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.6 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 1.39 W/kg

**SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.717 mW/g**

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



0 dB = 1.10mW/g

Date/Time: 11/30/2009 11:25:50 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-SusanMLC-850-Speech-High****DUT: Susan; Type:DUT; Serial:#16860**

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

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.99$  mho/m;  $\epsilon_r = 52.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 1.42 mW/g

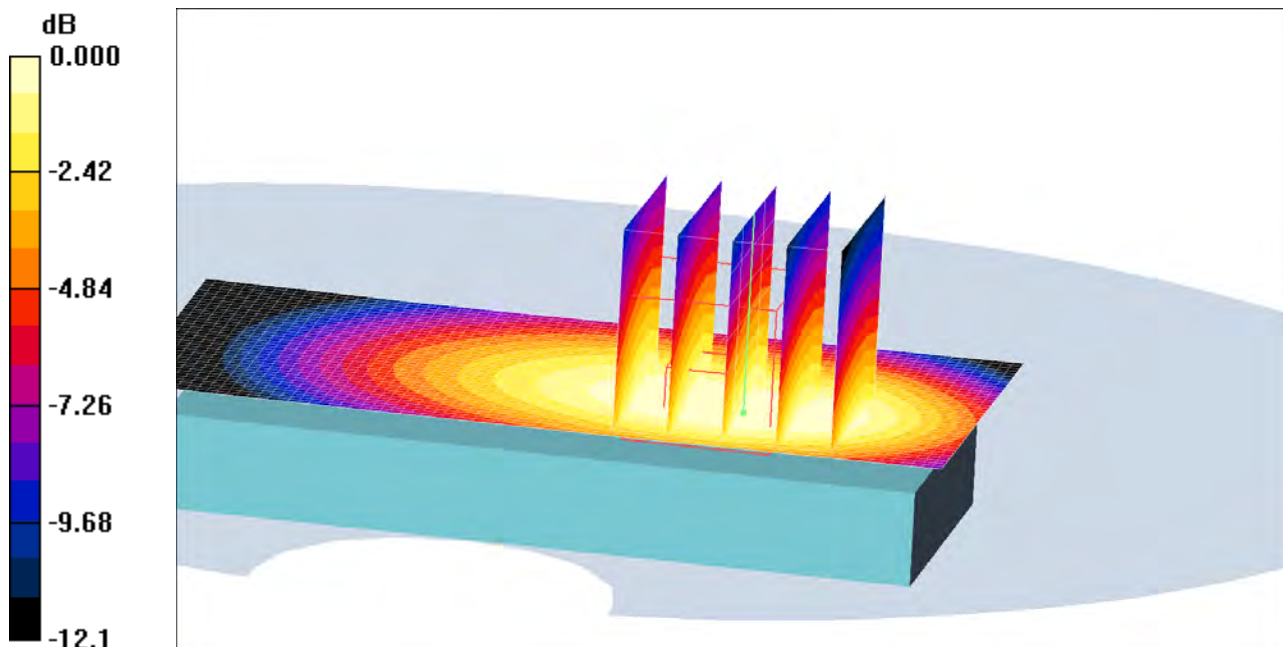
**Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.0 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 1.75 W/kg

**SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.913 mW/g**

Maximum value of SAR (measured) = 1.38 mW/g



0 dB = 1.38mW/g

Date/Time: 11/30/2009 11:03:10 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-SusanMLC-850-Speech-Low****DUT: Susan; Type:DUT; Serial:#16860**

Communication System: GSM 850; Frequency: 824.2 MHz; Duty Cycle: 1:8.3

Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 52.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 0.986 mW/g

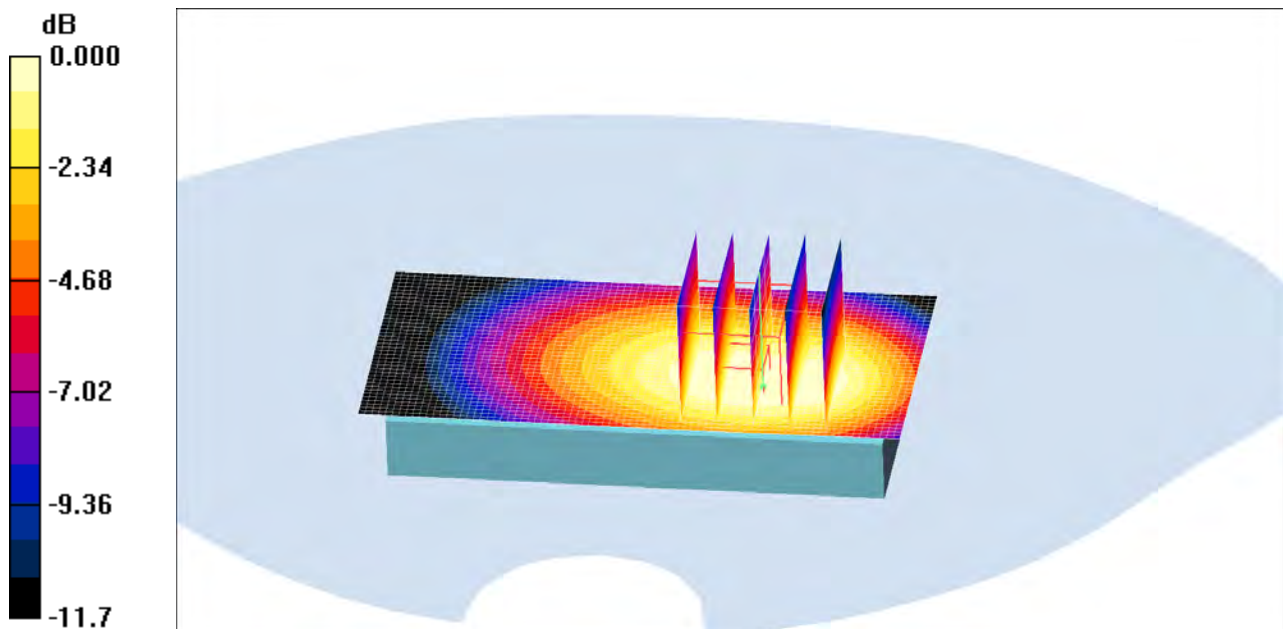
**Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.5 V/m; Power Drift = -0.116 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.907 mW/g; SAR(10 g) = 0.631 mW/g**

Maximum value of SAR (measured) = 0.961 mW/g



0 dB = 0.961mW/g



Date/Time: 11/30/2009 11:15:08 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-SusanMLC-850-Speech-Middle****DUT: Susan; Type:DUT; Serial:#16860**

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;  $\epsilon_r = 52.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 1.22 mW/g

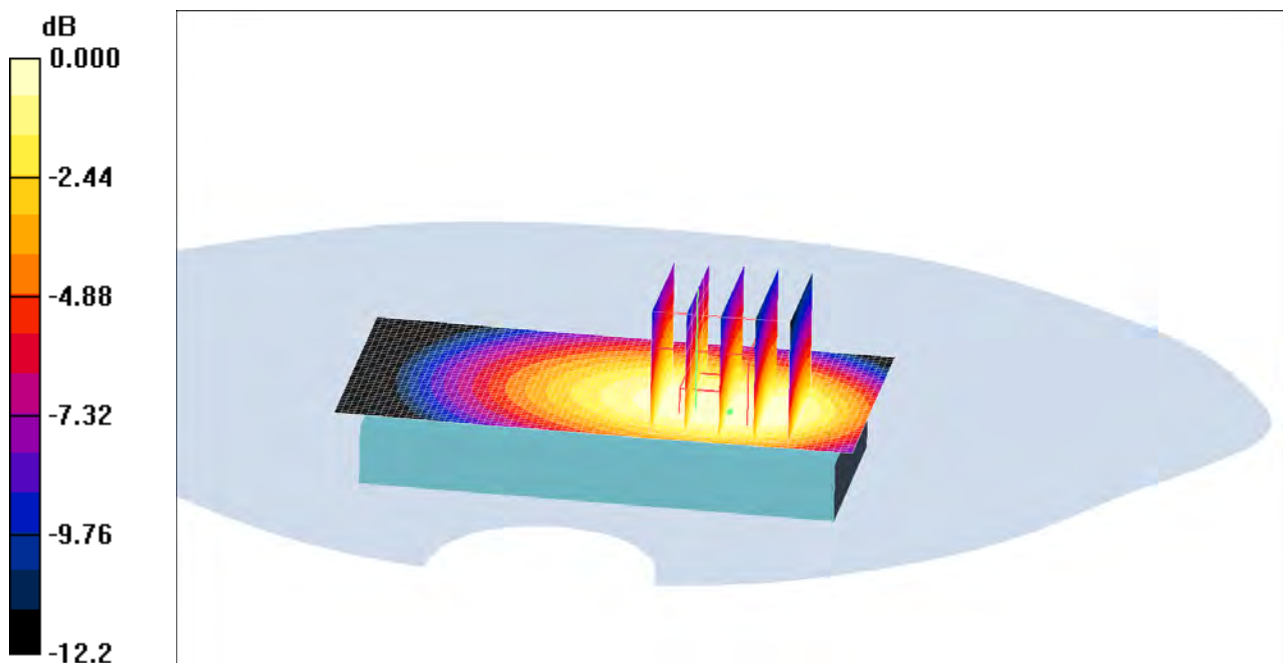
**Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.5 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 1.51 W/kg

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

Maximum value of SAR (measured) = 1.20 mW/g



Date/Time: 12/3/2009 9:23:19 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**SusanMLC-RightHandSide-GSM850-Tilt-Middle****DUT: Susan; Type:DUT; Serial:#16860**

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

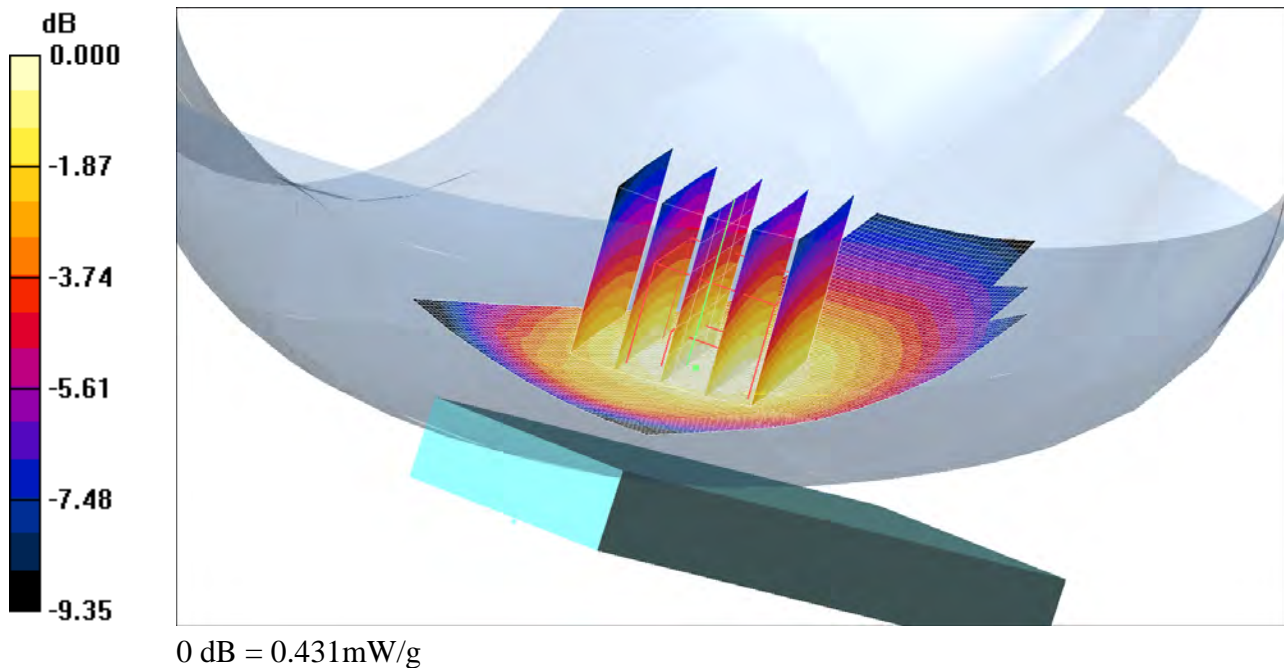
Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - 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) = 0.432 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.9 V/m; Power Drift = -0.094 dB  
Peak SAR (extrapolated) = 0.476 W/kg  
**SAR(1 g) = 0.404 mW/g; SAR(10 g) = 0.301 mW/g**  
Maximum value of SAR (measured) = 0.431 mW/g



Date/Time: 12/3/2009 9:06:24 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**SusanMLC-RightHandSide-GSM850-Touch-Middle****DUT: Susan; Type:DUT; Serial:#16860**

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

Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 40.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 0.836 mW/g

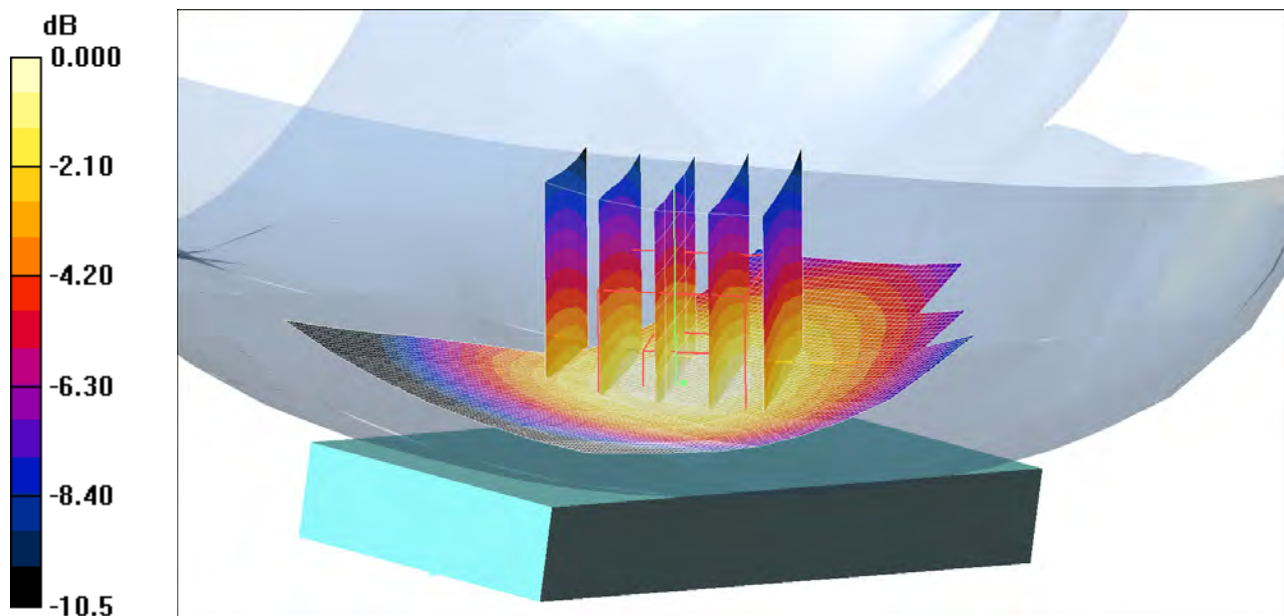
**Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = -0.102 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.771 mW/g; SAR(10 g) = 0.537 mW/g**

Maximum value of SAR (measured) = 0.828 mW/g



0 dB = 0.828mW/g



Date/Time: 11/27/2009 10:34:33 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**SusanMLC-LeftHandSide-GSM850-Tilt-High****DUT: Susan; Type:DUT; Serial:#16860**

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

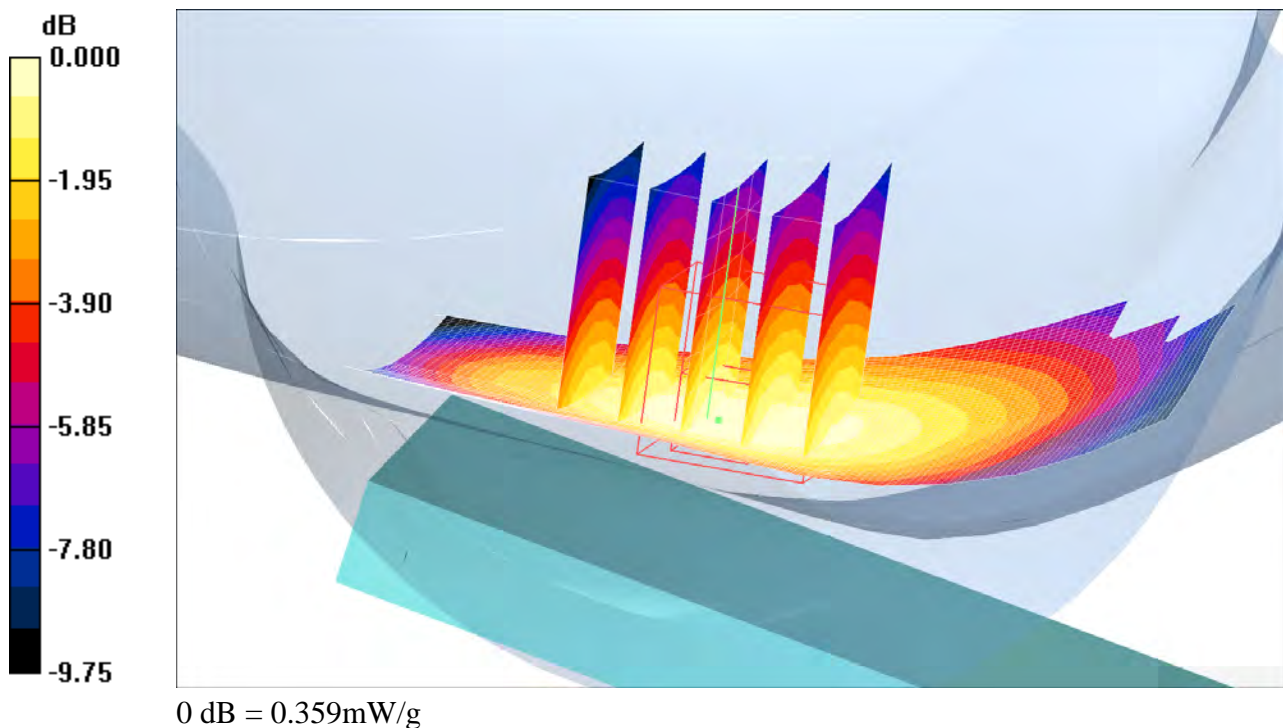
Medium parameters used:  $f = 836.6$  MHz;  $\sigma = 0.89$  mho/m;  $\epsilon_r = 41$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - 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) = 0.365 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 14.5 V/m; Power Drift = -0.153 dB  
Peak SAR (extrapolated) = 0.394 W/kg  
**SAR(1 g) = 0.338 mW/g; SAR(10 g) = 0.253 mW/g**  
Maximum value of SAR (measured) = 0.359 mW/g



Date/Time: 11/27/2009 11:06:10 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**SusanMLC-LeftHandSide-GSM850-Touch-High****DUT: Susan; Type:DUT; Serial:#16860**

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

Medium parameters used:  $f = 848.8$  MHz;  $\sigma = 0.9$  mho/m;  $\epsilon_r = 40.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 0.989 mW/g

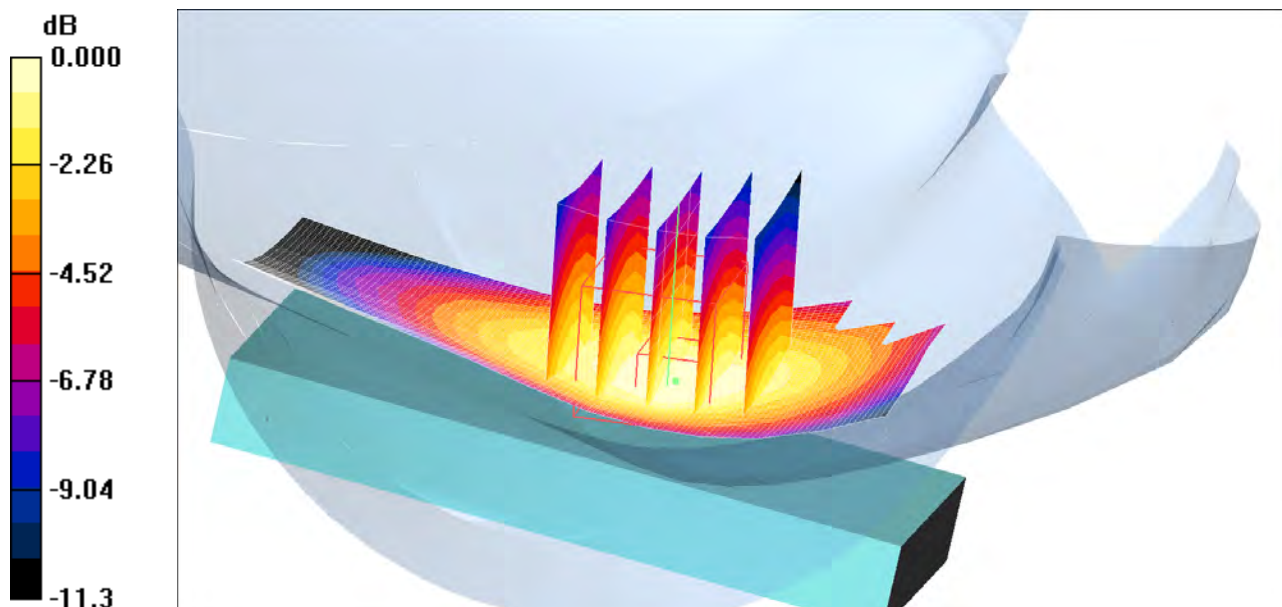
**Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.0 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.914 mW/g; SAR(10 g) = 0.655 mW/g**

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



0 dB = 0.982mW/g

Date/Time: 12/1/2009 11:09:49 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D1900-01-12-09****DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

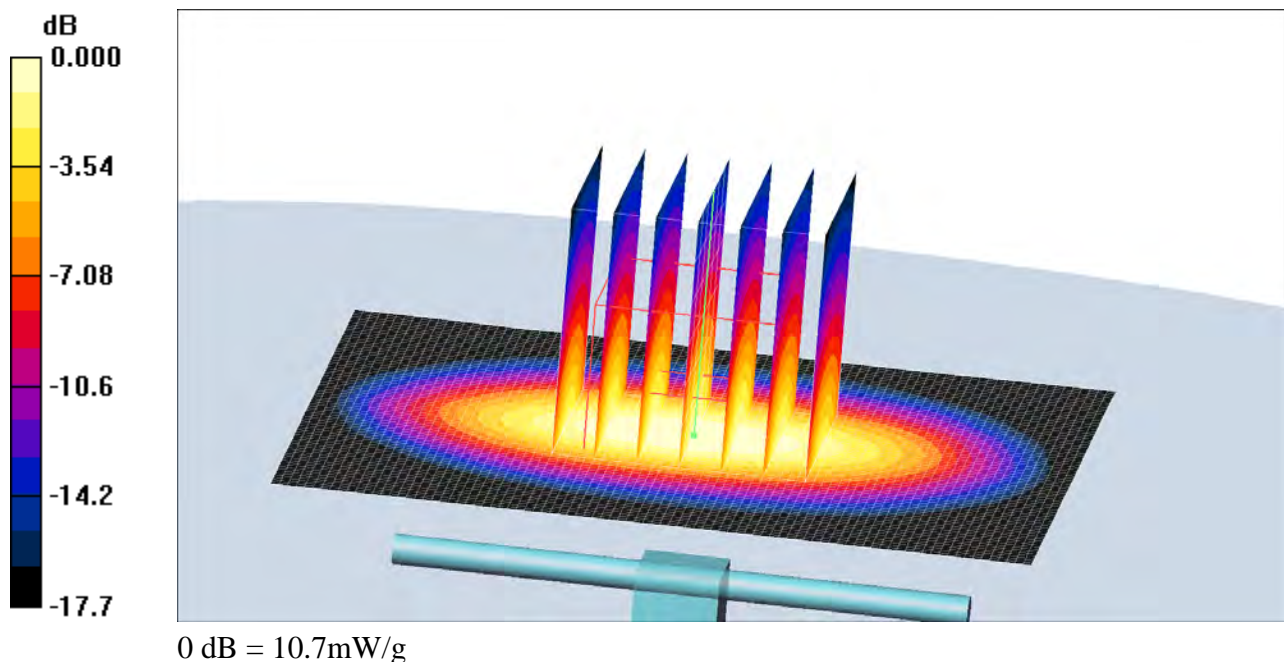
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.47$  mho/m;  $\epsilon_r = 38.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DASYS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 17
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 10.6 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 90.5 V/m; Power Drift = 0.020 dB  
Peak SAR (extrapolated) = 16.1 W/kg  
**SAR(1 g) = 9.39 mW/g; SAR(10 g) = 4.9 mW/g**  
Maximum value of SAR (measured) = 10.7 mW/g



Date/Time: 12/3/2009 12:53:50 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D1900-Body-03-12-09****DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

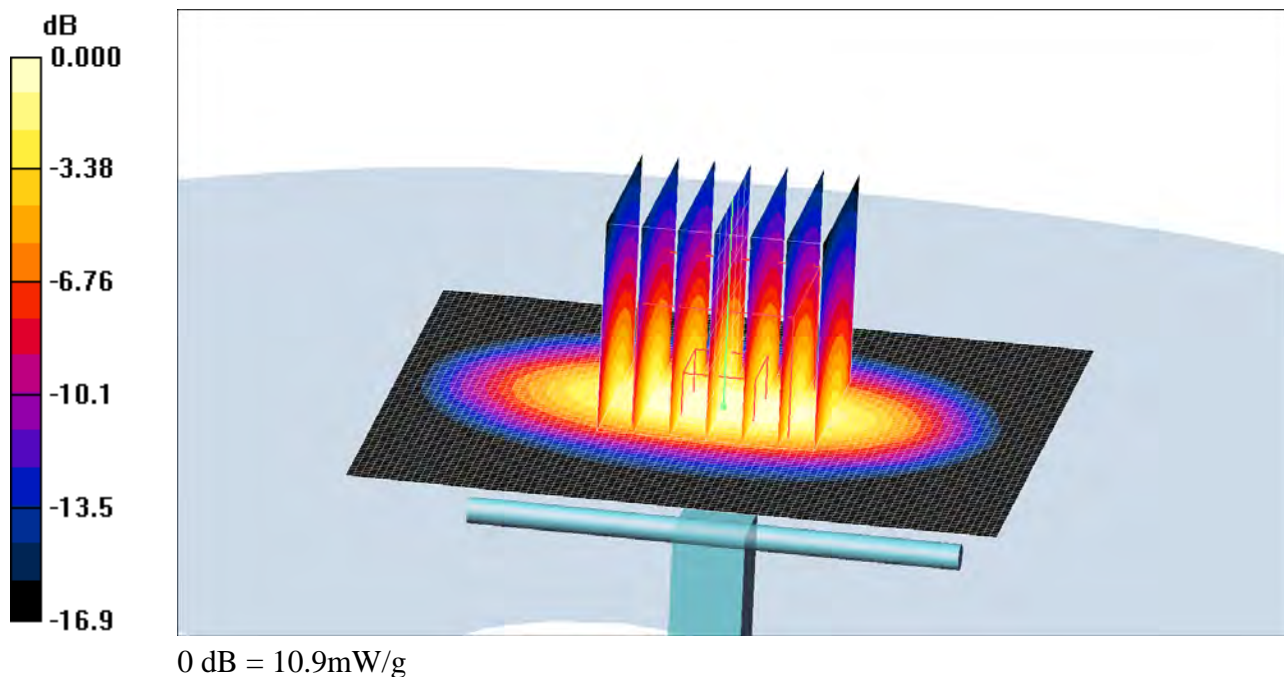
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.59$  mho/m;  $\epsilon_r = 50.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - 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) = 11.0 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 88.9 V/m; Power Drift = -0.006 dB  
Peak SAR (extrapolated) = 14.8 W/kg  
**SAR(1 g) = 9.47 mW/g; SAR(10 g) = 5.07 mW/g**  
Maximum value of SAR (measured) = 10.9 mW/g





Date/Time: 12/9/2009 10:39:11 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**Validation-D1900-Body-09-12-09****DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

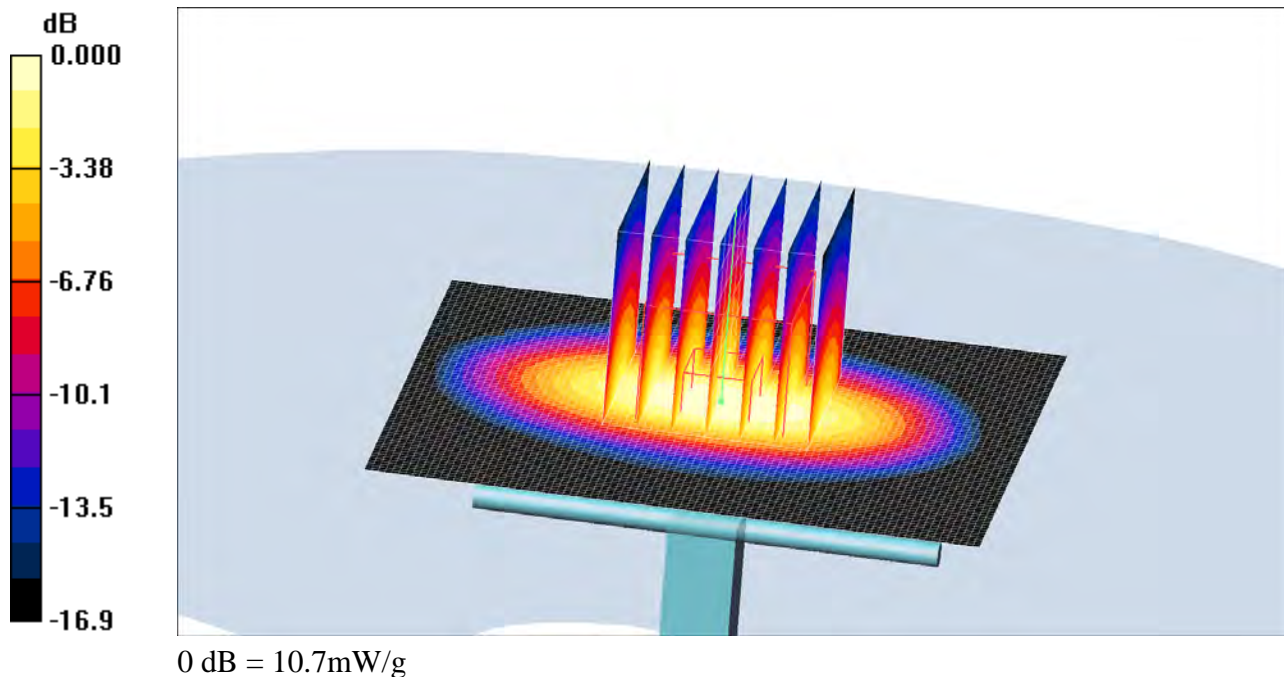
Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.59$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - 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) = 10.9 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:  
dx=5mm, dy=5mm, dz=5mm  
Reference Value = 85.0 V/m; Power Drift = 0.021 dB  
Peak SAR (extrapolated) = 14.5 W/kg  
**SAR(1 g) = 9.33 mW/g; SAR(10 g) = 5.02 mW/g**  
Maximum value of SAR (measured) = 10.7 mW/g



Date/Time: 12/1/2009 1:36:04 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**SusanMLC-LeftHandSide-GSM1900-Tilt-Middle****DUT: Susan; Type:DUT; Serial:#16860**

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

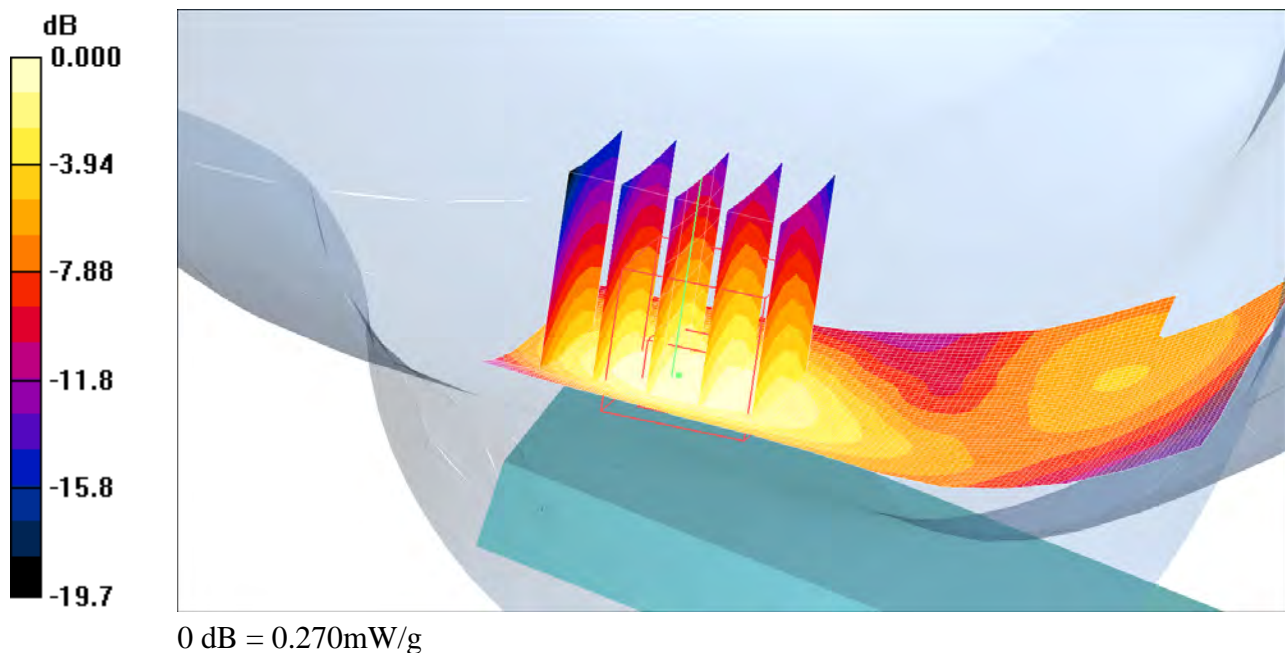
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DASYS4, 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) = 0.273 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 10.9 V/m; Power Drift = -0.003 dB  
Peak SAR (extrapolated) = 0.348 W/kg  
**SAR(1 g) = 0.249 mW/g; SAR(10 g) = 0.155 mW/g**  
Maximum value of SAR (measured) = 0.270 mW/g



Date/Time: 12/1/2009 1:20:33 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

**SusanMLC-LeftHandSide-GSM1900-Touch-Middle****DUT: Susan; Type:DUT; Serial:#16860**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

Measurement Standard: DASy4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASy4, 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) = 0.757 mW/g

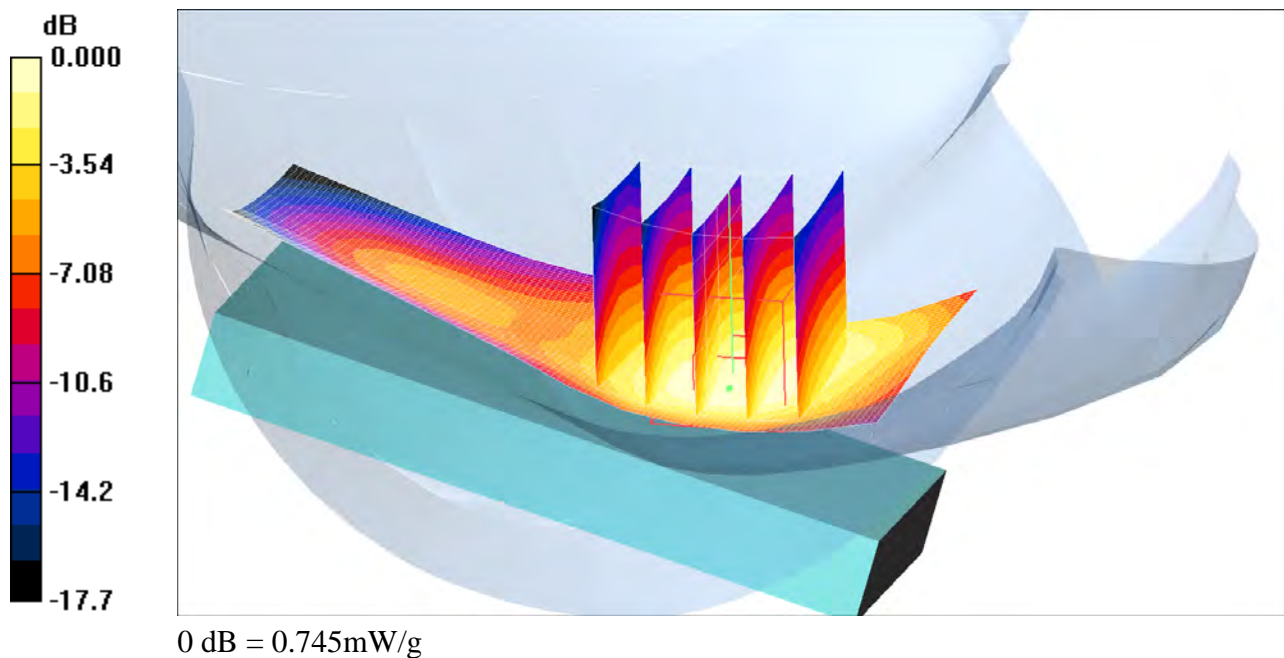
**Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.06 V/m; Power Drift = -0.011 dB

Peak SAR (extrapolated) = 0.967 W/kg

**SAR(1 g) = 0.697 mW/g; SAR(10 g) = 0.429 mW/g**

Maximum value of SAR (measured) = 0.745 mW/g



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Test Laboratory: Sony Ericsson Mobile Communications International AB

**SusanMLC-RightHandSide-GSM1900-Tilt-Middle****DUT: Susan; Type:DUT; Serial:#16860**

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

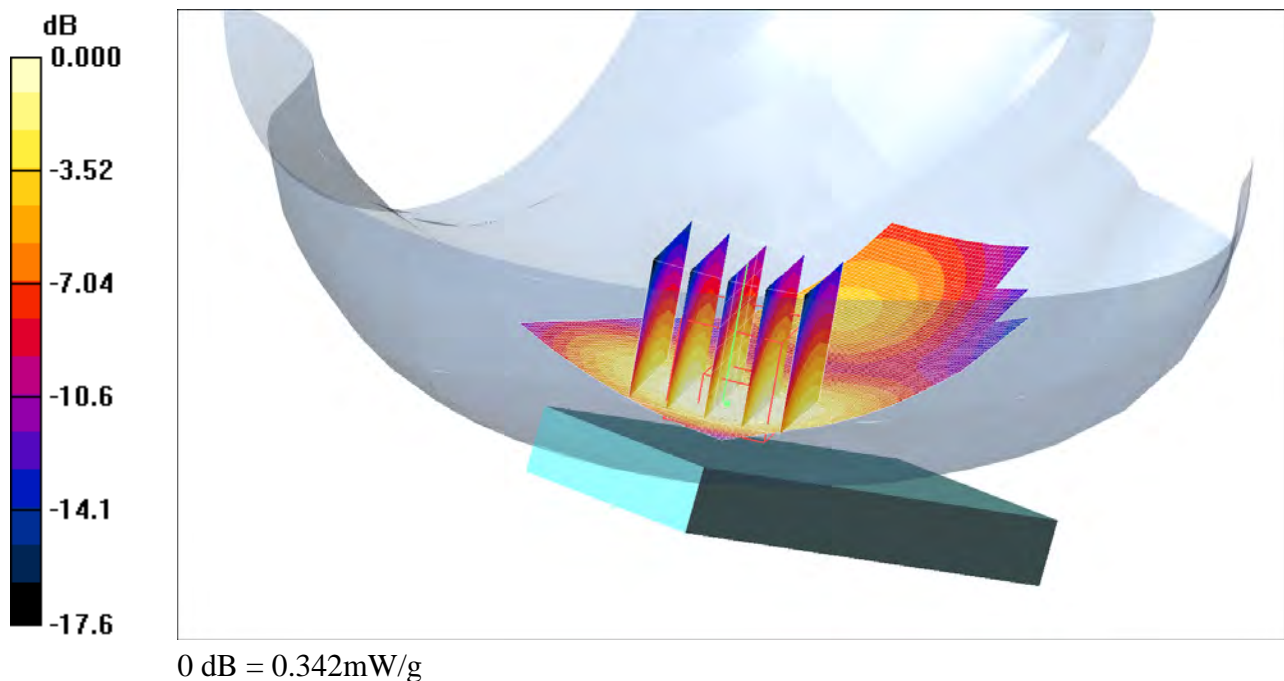
Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.44$  mho/m;  $\epsilon_r = 38.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
  - Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
  - Phantom: SAM-1; Type: SAM; Serial: 1437
  - Measurement SW: DASYS4, 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) = 0.348 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:  
dx=8mm, dy=8mm, dz=5mm  
Reference Value = 12.7 V/m; Power Drift = 0.029 dB  
Peak SAR (extrapolated) = 0.449 W/kg  
**SAR(1 g) = 0.319 mW/g; SAR(10 g) = 0.198 mW/g**  
Maximum value of SAR (measured) = 0.342 mW/g





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Test Laboratory: Sony Ericsson Mobile Communications International AB

**SusanMLC-RightHandSide-GSM1900-Touch-High****DUT: Susan; Type:DUT; Serial:#16860**

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

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.48$  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(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DAS4, 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) = 1.16 mW/g

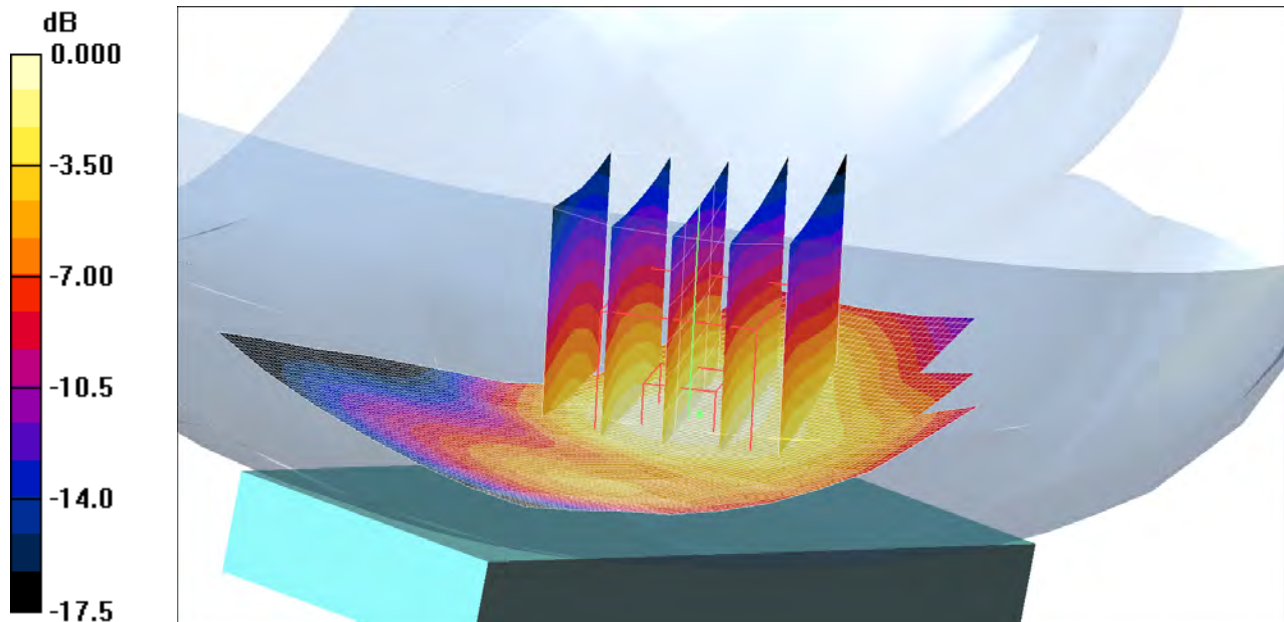
**Touch position - High -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.85 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 1.58 W/kg

**SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.612 mW/g**

Maximum value of SAR (measured) = 1.15 mW/g



0 dB = 1.15mW/g

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Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-SusanMLC-1900-GPRS-High****DUT: Susan; Type:DUT; Serial:#16860**

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

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.61$  mho/m;  $\epsilon_r = 50.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASYS4, 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) = 1.12 mW/g

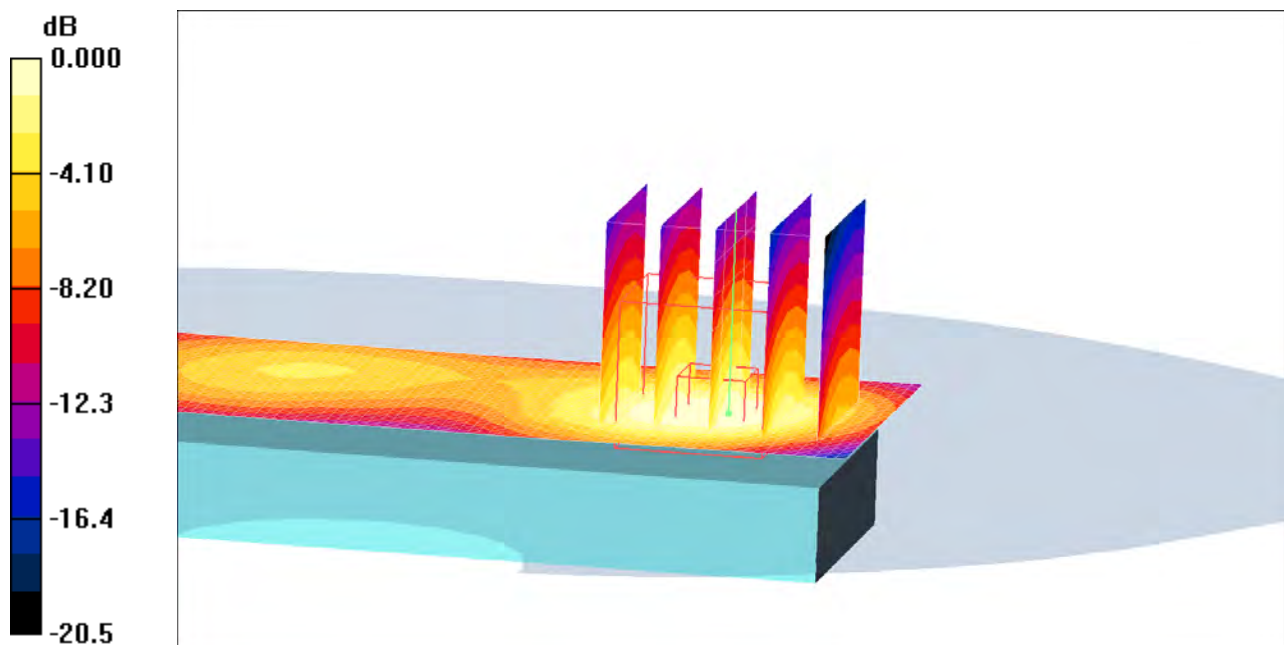
**Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = 0.059 dB

Peak SAR (extrapolated) = 1.44 W/kg

**SAR(1 g) = 0.984 mW/g; SAR(10 g) = 0.575 mW/g**

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



0 dB = 1.09mW/g

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Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-SusanMLC-1900-GPRS-Low****DUT: Susan; Type:DUT; Serial:#16860**

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

Medium parameters used:  $f = 1850.2$  MHz;  $\sigma = 1.55$  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(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 0.981 mW/g

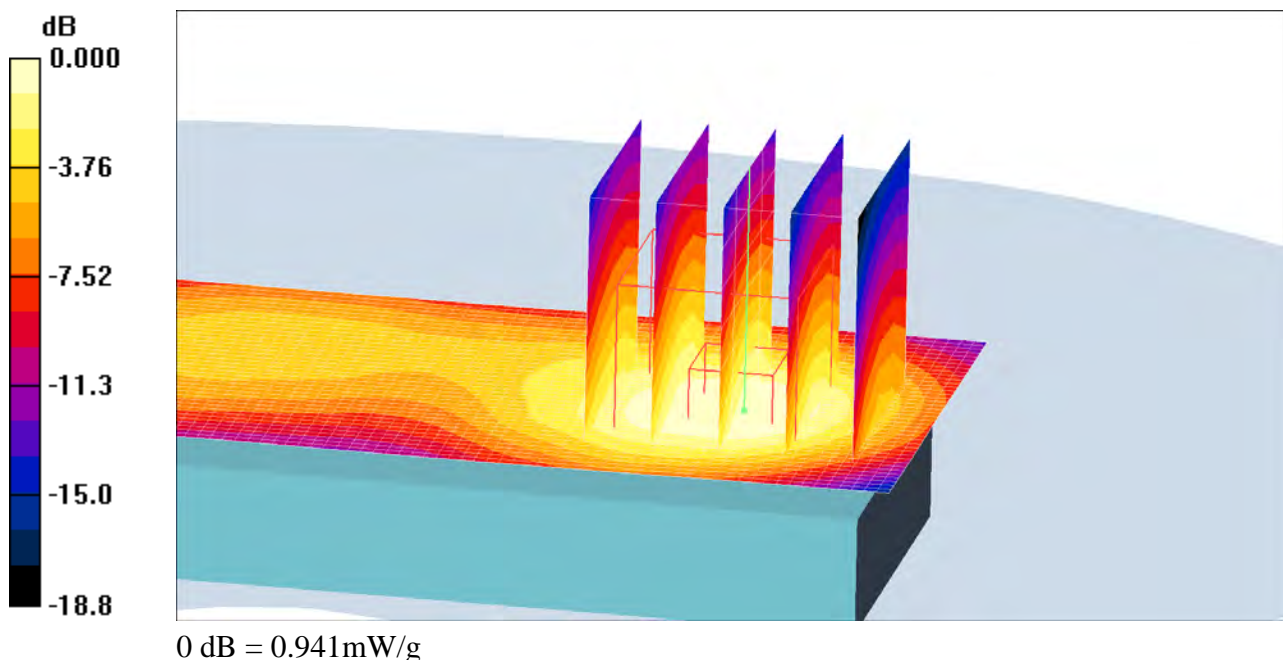
**Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.3 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.853 mW/g; SAR(10 g) = 0.512 mW/g**

Maximum value of SAR (measured) = 0.941 mW/g



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Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-SusanMLC-1900-GPRS-Middle****DUT: Susan; Type:DUT; Serial:#16860**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.58$  mho/m;  $\epsilon_r = 50.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASYS4, 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) = 0.957 mW/g

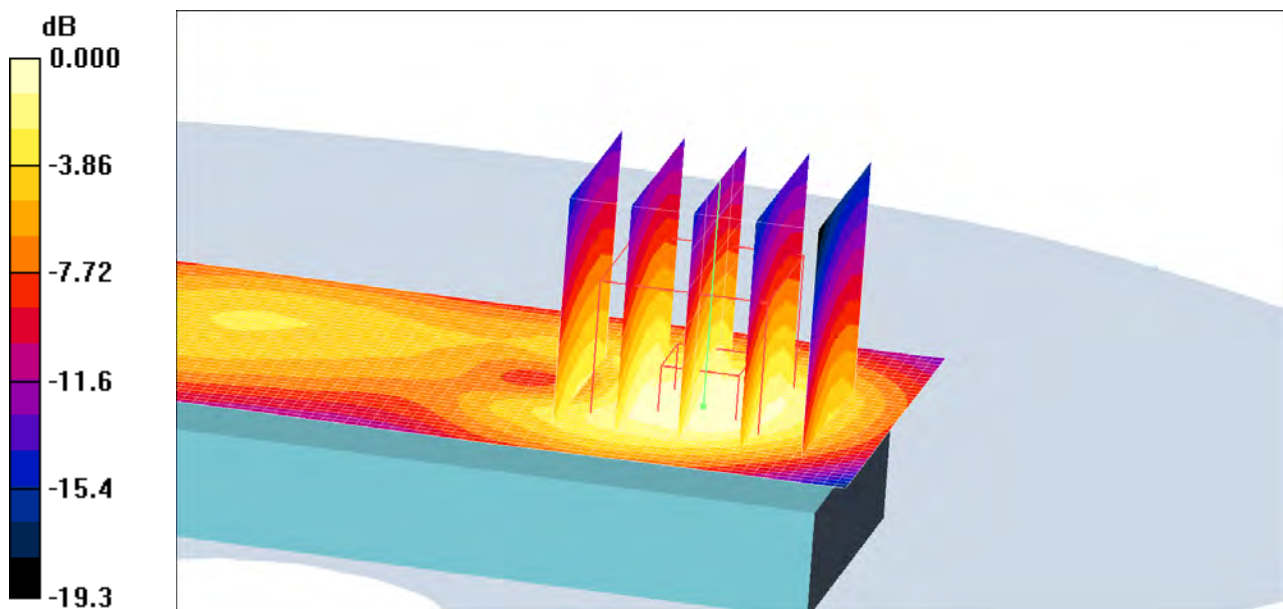
**Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.3 V/m; Power Drift = -0.126 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.814 mW/g; SAR(10 g) = 0.481 mW/g**

Maximum value of SAR (measured) = 0.899 mW/g



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Test Laboratory: Sony Ericsson Mobile Communications International AB

**Body-Flat15mm-SusanMLC-1900-Speech-High****DUT: Susan; Type:DUT; Serial:#16860**

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

Medium parameters used:  $f = 1909.8$  MHz;  $\sigma = 1.61$  mho/m;  $\epsilon_r = 50.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- 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) = 1.10 mW/g

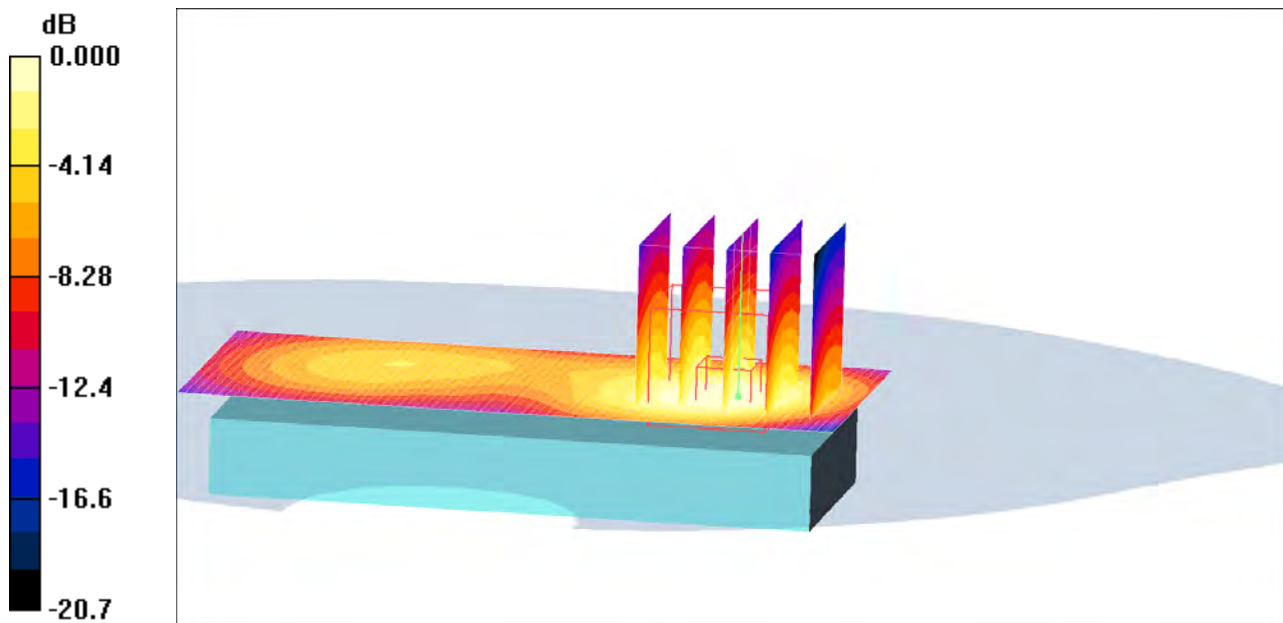
**Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.6 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.968 mW/g; SAR(10 g) = 0.563 mW/g**

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



0 dB = 1.08mW/g