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BA/SEMC/CCDAU Robert Carr

Approved

LD/SEMC/BGLIMC Peter Lindeborg

Checked

PL

Company Internal
REPORT

No.

CCDA09:162.

Date

090401

Rev

A

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File

Report issued by Accredited SAR Laboratory**for****FCC ID: PY7A3880026 (C903)****Date of test:** March 17th to March 23rd 2009**Laboratory:** Sony Ericsson SAR Test Laboratory
Sony Ericsson Mobile Communications AB
Maplewood, Chineham Business Park
Basingstoke, RG24 8YB,
England**Testing Engineer:** Robert Carr
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ROBERT CARR

Testing Approval: Peter Lindeborg
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Pl Lindeborg

Statement of Compliance

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

Sony Ericsson Type AAD-3880026-BV; FCC ID PY7A3880026; IC 4170B-A3880026

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: PY7A3880026 (C903) 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

Company Name:	Sony Ericsson Mobile Communications AB
Address:	Nya Vattentorget Lund SE-22188 Sweden
Contact Name:	Robert Almaker

3 Device Under Test

3.1 Antenna Description

Type	Internal antenna	
Location	Bottom of phone	
Minimum Separation distance for Main and BT Antenna's	63mm	
Dimensions	Max length	15 mm
	Max width	45 mm
Configuration	Semi-Pifa	



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3.2 Device Description

Device model	AAD-3880026-BV					
Market name	C903					
Serial number (EUT #)	FFM0011485 (#14903)					
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] ¹ (#14903)	33.3	33.3	33.3	30.8	30.8	30.8
Product Maximum power Level [dBm] ¹	33.5	33.5	33.5	31.0	31.0	31.0
Data mode	GPRS			GPRS		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹ (#14903)	33.3	33.3	33.3	30.8	30.8	30.8
Product Maximum power Level [dBm] ¹	33.5	33.5	33.5	31.0	31.0	31.0
Data mode	EDGE			EDGE		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹ (#14608)	27.1	27.0	27.0	26.6	26.4	26.3
Product Maximum power Level [dBm] ¹	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 2, 2.5 dBm
Prototype or production unit	Preproduction
Hardware Version	AP2
Software version	R1EA018
Device category	Portable
RF exposure environment	General population / uncontrolled

¹ 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

4.2 Additional equipment

Description	Inventory Number	Due Date
Signal generator R&S SMY 02	3.094	2009-04
Directional coupler HP778D	15.233	None
Power meter R&S NRVD	4.073	2009-04
Power sensor R&S NRV-Z5	4.074	2009-04
Power sensor R&S NRV-Z5	4.076	2009-04
Network analyzer Agilent 8719D	2.022	2009-04
Dielectric probe kit HP8507C	14.046	Self Cal
R&S CMU200	20011270	2009-04

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5 Electrical parameters on the tissue simulating liquid

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

f [MHz]	Tissue type	Measured / Recommended	Dielectric Parameters		Density
			ϵ_r	σ [S/m]	ρ [g/cm ³]
835	Head	Measured, 2009-03-17	40.58	0.88	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2009-03-20	53.50	0.98	1.00
		Recommended	55.20	0.97	1.00
1900	Head	Measured, 2009-03-23	38.34	1.41	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2009-03-24	50.80	1.58	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 ρ [g/cm ³]	Liquid T[°C]
				ε _r	σ [S/m]		
835	Head	Measured, 2009-03-17	9.68	40.58	0.88	1.00	23.5
		Reference	9.34	41.50	0.90	1.00	22.0
835	Body	Measured, 2009-03-20	9.96	53.50	0.98	1.00	23.2
		Reference	9.85	55.20	0.97	1.00	22.0
1900	Head	Measured, 2009-03-23	37.96	38.34	1.41	1.00	23.5
		Reference	41.30	40.00	1.40	1.00	22.0
1900	Body	Measured, 2009-03-24	42.00	50.80	1.58	1.00	22.5
		Reference	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 PY7A3880026 (C903) phone According to IEEE 1528

Uncertainty Component	Uncer. (%)	Prob Dist.	Div.	C _i	1g mass
Measurement System					
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
Measurement System Uncertainty					±8.4
Test Sample Related					
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
Test Sample Related Uncertainty					±5.5
Phantom and Tissue Parameters					
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
Phantom and Tissue Parameters Uncertainty					±4.1
Combined standard uncertainty					±10.8
Extended standard uncertainty (k=2)					±21.6



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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 ¹ [dBm]	Position	Liquid T [°C]	Measured SAR [W/kg]	
					Left-hand 1g mass	Right-hand 1g mas
GSM 850	128	33.3	Cheek	23.5	0.59	0.69
			Tilt	23.5	-	-
			² Cheek	23.5	-	-
			² Tilt	23.5	-	-
	190	33.3	Cheek	23.5	0.70	0.67
			Tilt	23.5	0.57	0.61
			² Cheek	23.5	0.39	0.41
			² Tilt	23.5	0.32	0.34
	251	33.3	Cheek	23.5	0.64	0.63
			Tilt	23.5	-	0.46
			² Cheek	23.5	-	-
			² Tilt	23.5	-	-
GSM 1900	512	30.8	Cheek	23.5	0.38	-
			Tilt	23.5	-	-
			² Cheek	23.5	-	0.30
			² Tilt	23.5	-	-
	661	30.8	Cheek	23.5	0.41	0.26
			Tilt	23.5	0.20	0.24
			² Cheek	23.5	0.20	0.30
			² Tilt	23.5	0.19	0.20
	810	30.8	Cheek	23.5	0.51	-
			Tilt	23.5	-	-
			² Cheek	23.5	-	0.41
			² Tilt	23.5	-	-

Table 1: SAR measurement result for Sony Ericsson PY7A3880026 telephone at highest possible output power. Measured towards the head.

¹ Measured output values were provided by the customer.

² Slider closed.



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Band	Channel	Measured output power ¹ [dBm]	Position / Mode	Liquid T [°C]	Measured SAR [W/kg] 1g mass
GSM 850	128	33.3	Back / GPRS	23.2	1.05
		33.3	Back / Speech	23.2	0.56
		33.3	Back / PHF	23.2	0.44
		33.3	Front / GPRS	23.2	0.35
		27.1	Back / EDGE	23.2	0.38
	190	33.3	Back / GPRS	23.2	1.00
		33.3	Back / Speech	23.2	0.54
	251	33.3	Back / GPRS	23.2	0.83
		33.3	Back / Speech	23.2	0.44
GSM 1900	512	30.8	Back / GPRS	22.5	0.55
		30.8	Back / Speech	22.5	0.31
	661	30.8	Back / GPRS	22.5	0.65
		30.8	Back / Speech	22.5	0.37
	810	30.8	Back / GPRS	22.5	0.95
		30.8	Front / GPRS	22.5	0.35
		30.8	Back / PHF	22.5	0.58
		30.8	Back / Speech	22.5	0.55
		26.3	Back / EGPRS	22.5	0.33

Table 2: SAR measurement result for Sony Ericsson PY7A3880026 telephone at highest possible output power. Measured towards the body.

¹ 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 KDB648474. "SAR Evaluation Consideration for HANDSETS with Multiple Transmitters and Antenna", April 2008.

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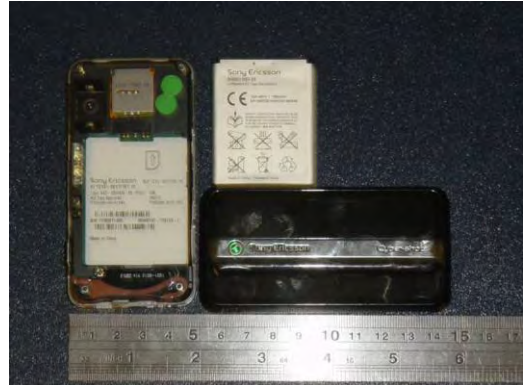
File

Appendix

9.1 Photographs of the device under test



Front & Back Closed



Front & Back Open



Sides Closed



Top & Bottom Closed

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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: 3/24/2009 11:33:58 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Frances18-1900-GPRS-High**DUT: Frances; Type: DUT; Serial: #14903**

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

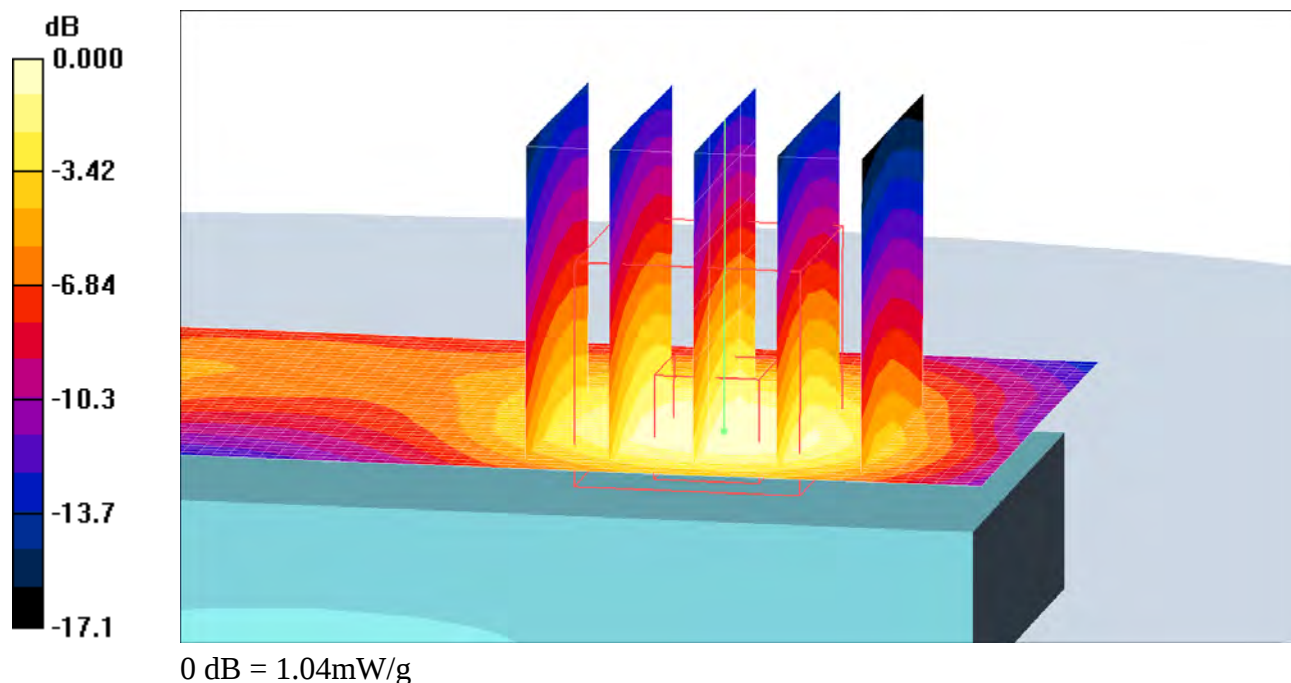
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.59 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 3/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 1.10 mW/g **Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 14.5 V/m ; Power Drift = -0.044 dB Peak SAR (extrapolated) = 1.63 W/kg **SAR(1 g) = 0.951 mW/g ; SAR(10 g) = 0.546 mW/g** Maximum value of SAR (measured) = 1.04 mW/g 

Date/Time: 3/24/2009 11:01:10 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Frances18-1900-GPRS-Low**DUT: Frances; Type: DUT; Serial: #14903**

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

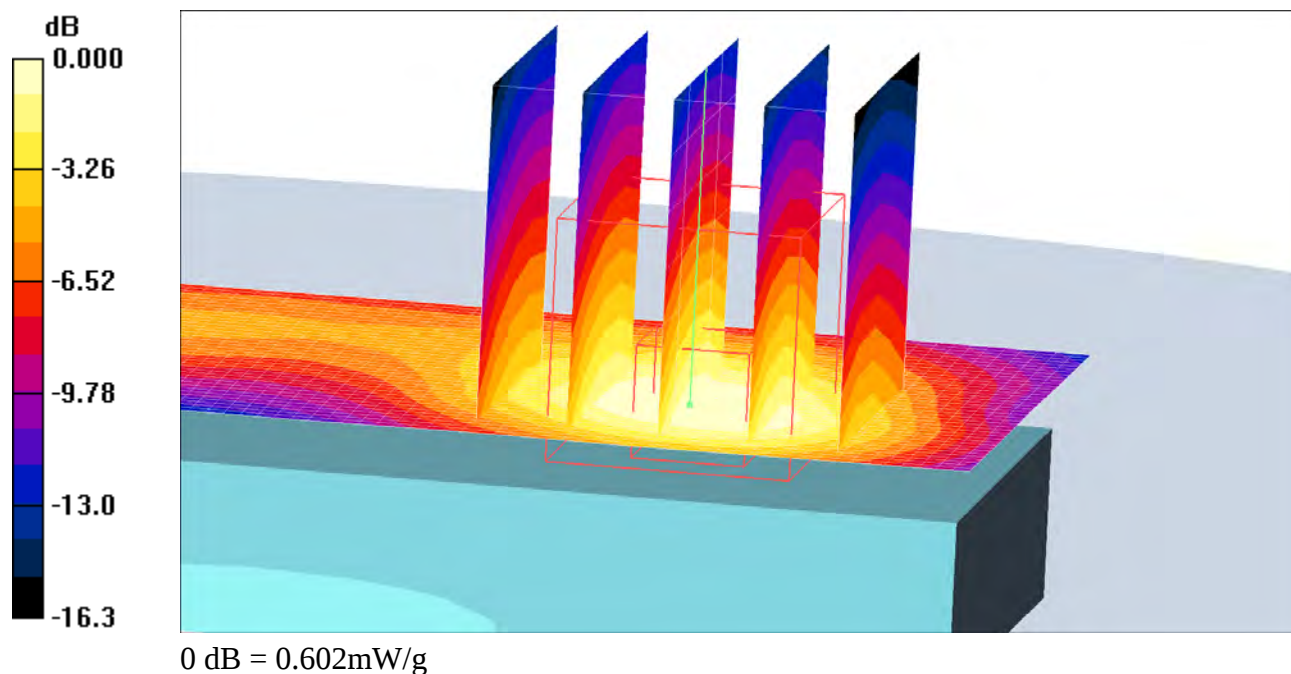
Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 50.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.625 mW/g **Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 11.2 V/m ; Power Drift = 0.065 dB Peak SAR (extrapolated) = 0.922 W/kg **SAR(1 g) = 0.549 mW/g ; SAR(10 g) = 0.317 mW/g** Maximum value of SAR (measured) = 0.602 mW/g 

Date/Time: 3/24/2009 11:20:59 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Frances18-1900-GPRS-Middle**DUT: Frances; Type: DUT; Serial: #14903**

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

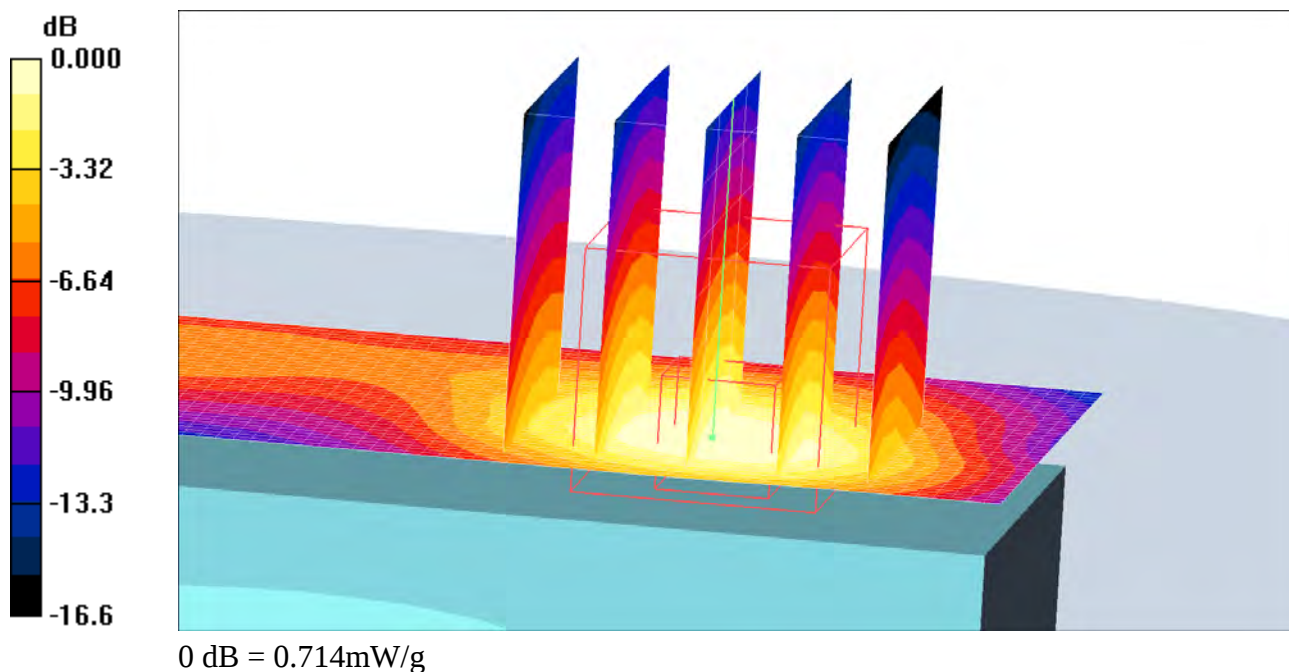
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 2/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.746 mW/g **Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 11.3 V/m ; Power Drift = -0.010 dB Peak SAR (extrapolated) = 1.10 W/kg **SAR(1 g) = 0.652 mW/g ; SAR(10 g) = 0.374 mW/g** Maximum value of SAR (measured) = 0.714 mW/g 

Date/Time: 3/24/2009 3:21:21 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Frances18-1900-Speech-PHF-High**DUT: Frances; Type: DUT; Serial: #14903**

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

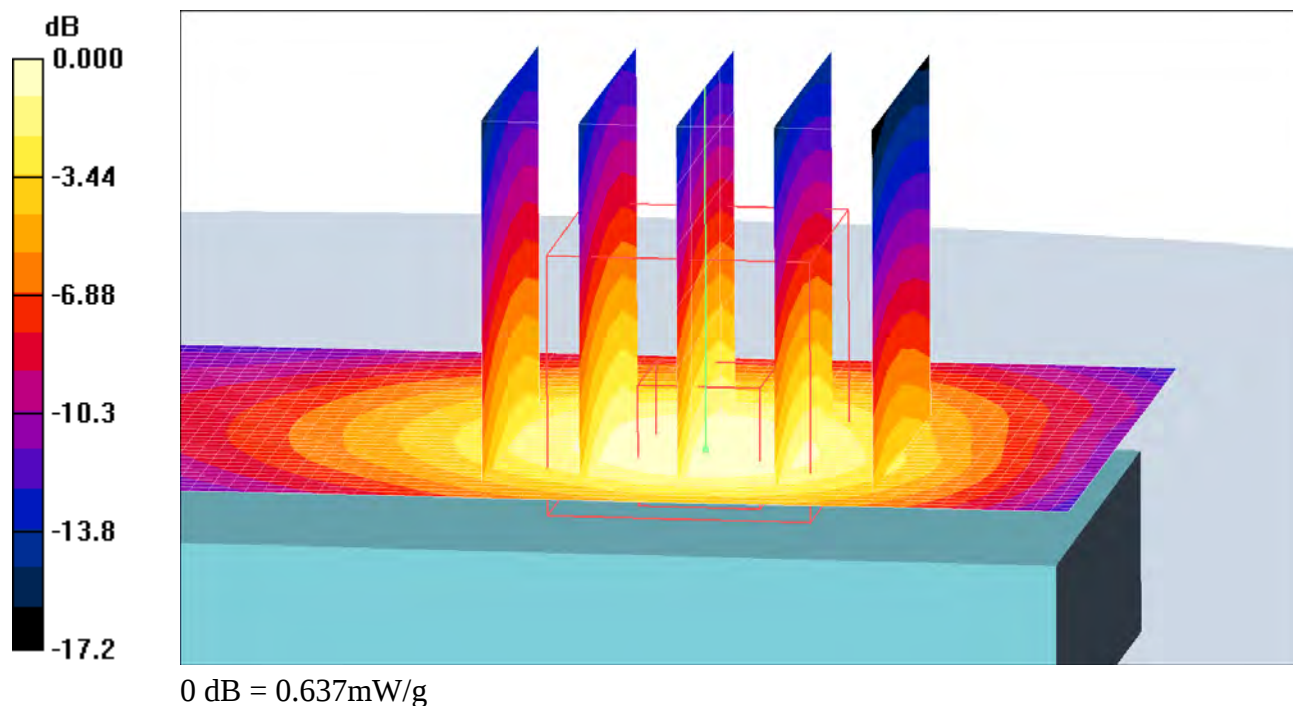
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.59 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body - PHF/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.666 mW/g **Body - PHF/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 13.7 V/m ; Power Drift = 0.027 dB Peak SAR (extrapolated) = 1.00 W/kg **SAR(1 g) = 0.583 mW/g ; SAR(10 g) = 0.339 mW/g** Maximum value of SAR (measured) = 0.637 mW/g 

Date/Time: 3/20/2009 10:19:24 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Frances18-850-GPRS-High**DUT: Frances; Type: DUT; Serial: #14903**

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

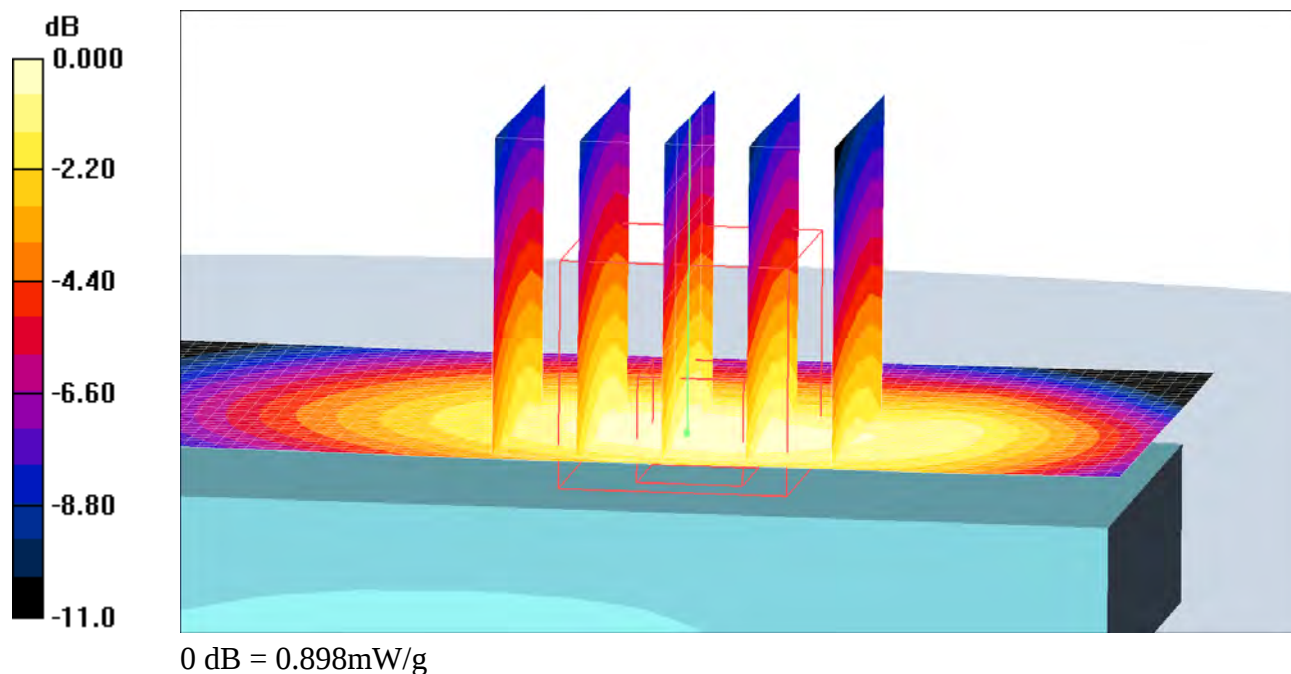
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 53.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 3/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.882 mW/g **Body 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 28.1 V/m ; Power Drift = -0.058 dB Peak SAR (extrapolated) = 1.09 W/kg **SAR(1 g) = 0.832 mW/g ; SAR(10 g) = 0.579 mW/g** Maximum value of SAR (measured) = 0.898 mW/g 

Date/Time: 3/20/2009 9:58:01 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Frances18-850-GPRS-Low**DUT: Frances; Type: DUT; Serial: #14903**

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

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, 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) = 1.12 mW/g

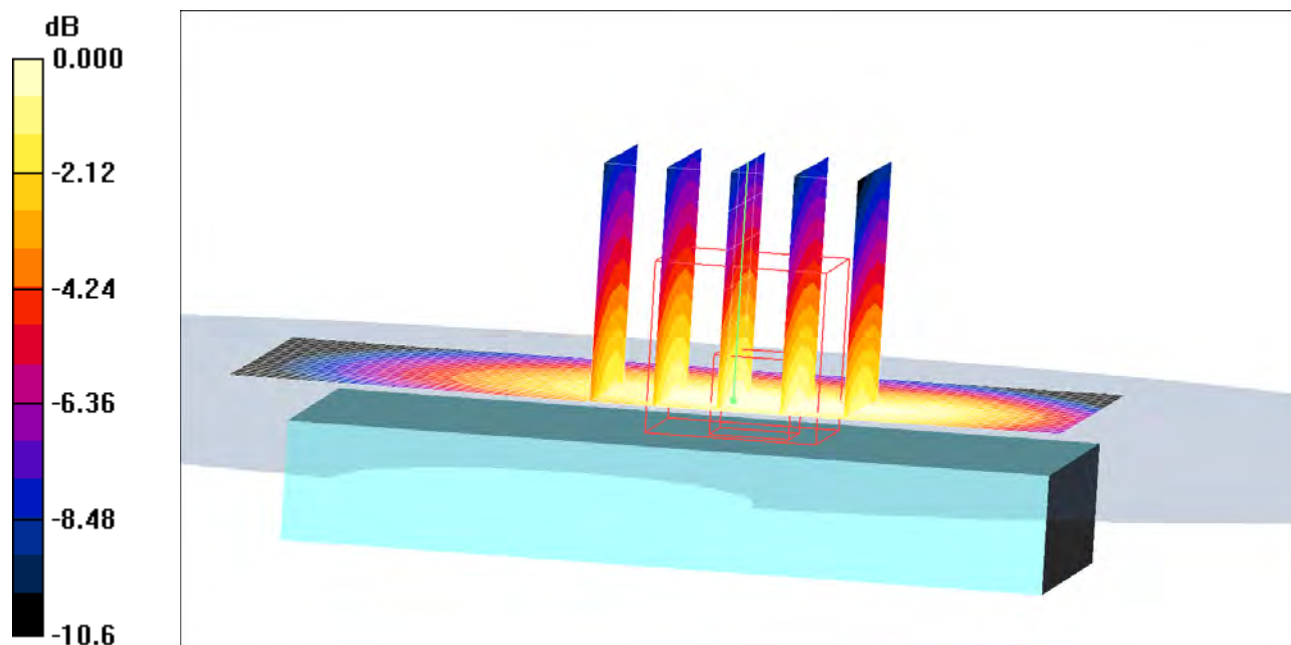
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.5 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.736 mW/g

Maximum value of SAR (measured) = 1.12 mW/g



0 dB = 1.12mW/g

Date/Time: 3/20/2009 10:08:57 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Frances18-850-GPRS-Middle**DUT: Frances; Type: DUT; Serial: #14903**

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

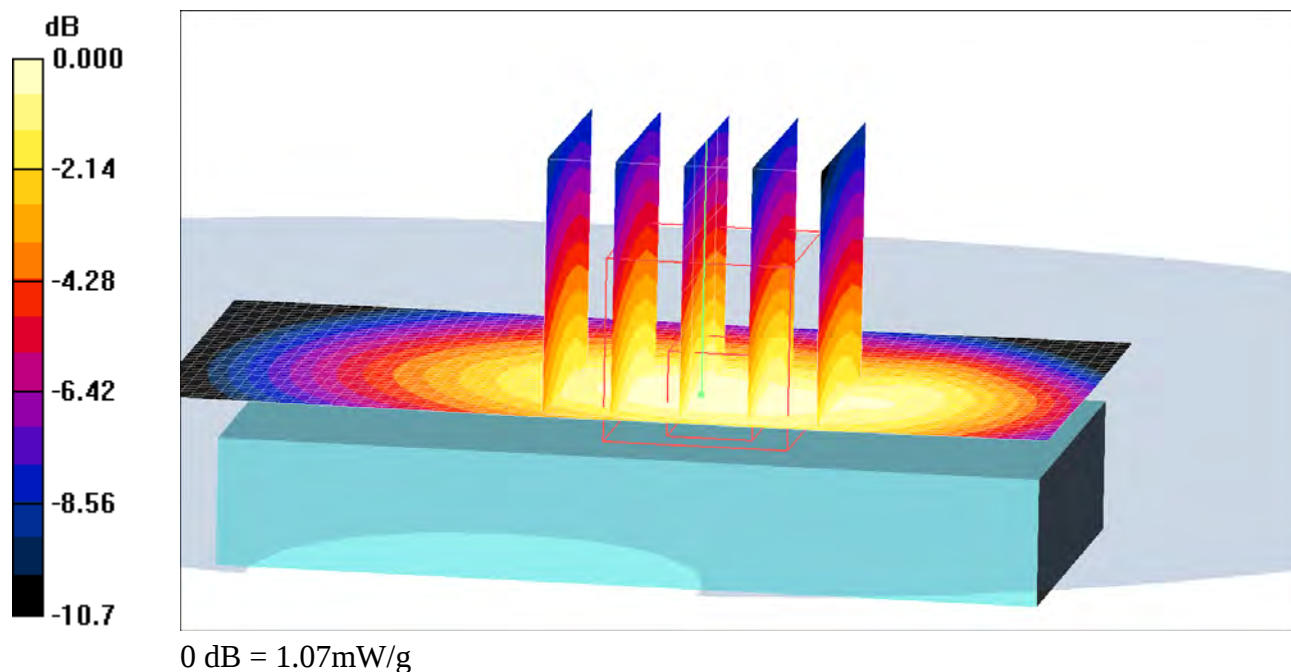
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body 2/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 1.06 mW/g **Body 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 31.0 V/m ; Power Drift = -0.107 dB Peak SAR (extrapolated) = 1.31 W/kg **SAR(1 g) = 0.998 mW/g ; SAR(10 g) = 0.697 mW/g** Maximum value of SAR (measured) = 1.07 mW/g 

Date/Time: 3/20/2009 11:25:14 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Frances18-850-Speech-Low**DUT: Frances; Type: DUT; Serial: #14903**

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

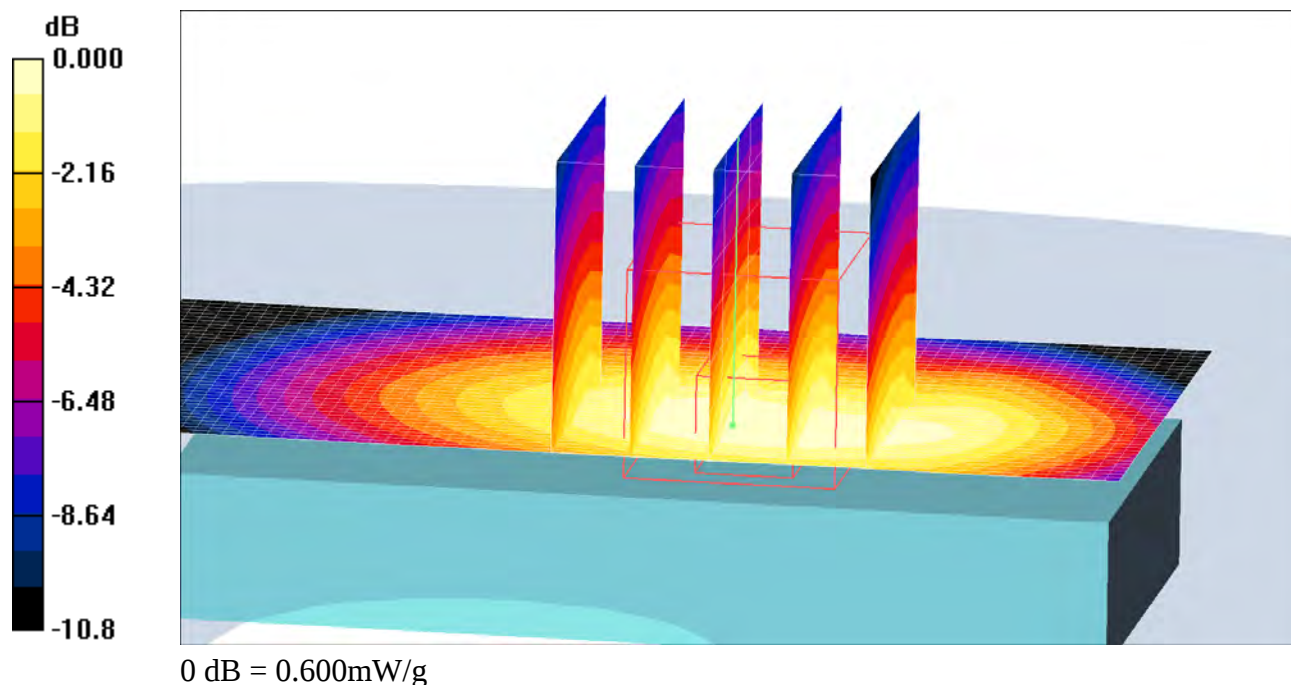
Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 53.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body/Area Scan (41x71x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.589 mW/g **Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 22.8 V/m ; Power Drift = 0.049 dB Peak SAR (extrapolated) = 0.721 W/kg **SAR(1 g) = 0.559 mW/g ; SAR(10 g) = 0.391 mW/g** Maximum value of SAR (measured) = 0.600 mW/g 

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Test Laboratory: Sony Ericsson Mobile Communications International AB

Frances18-LeftHandSide-GSM1900-Tilt-Middle**DUT: Frances; Type: DUT; Serial: #14903**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (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: DASY4, 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) = 0.226 mW/g

Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

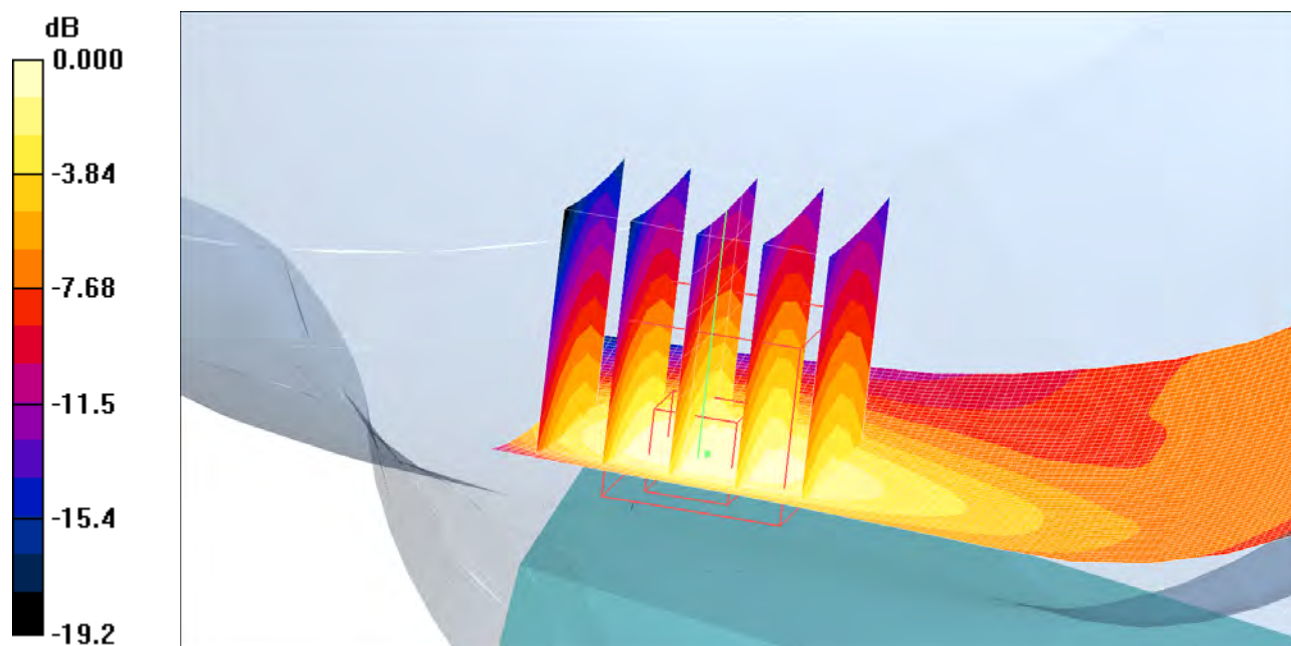
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = -0.002 dB

Peak SAR (extrapolated) = 0.310 W/kg

SAR(1 g) = 0.202 mW/g; SAR(10 g) = 0.120 mW/g

Maximum value of SAR (measured) = 0.221 mW/g



0 dB = 0.221mW/g

Date/Time: 3/23/2009 1:09:26 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Frances18-LeftHandSide-GSM1900-Touch-High**DUT: Frances; Type: DUT; Serial: #14903**

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

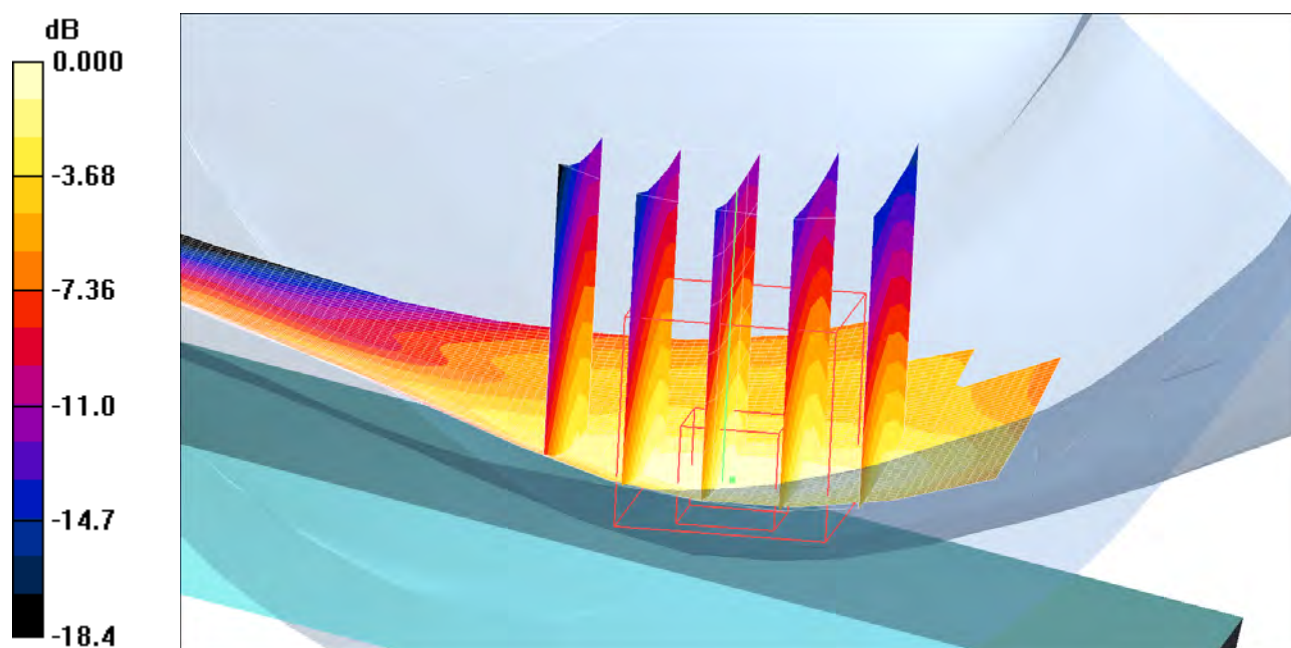
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

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: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High/Area Scan (61x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.579 mW/g **Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 7.65 V/m ; Power Drift = 0.032 dB Peak SAR (extrapolated) = 0.813 W/kg **SAR(1 g) = 0.511 mW/g ; SAR(10 g) = 0.299 mW/g** Maximum value of SAR (measured) = 0.568 mW/g 0 dB = 0.568 mW/g

Date/Time: 3/17/2009 10:21:17 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Frances18-LeftHandSide-GSM850-Tilt-Middle**DUT: Frances; Type: DUT; Serial: #14903**

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/m³

Phantom section: Left Section

Measurement Standard: DASY4 (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: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - Middle/Area Scan (61x111x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
 Maximum value of SAR (interpolated) = 0.610 mW/g

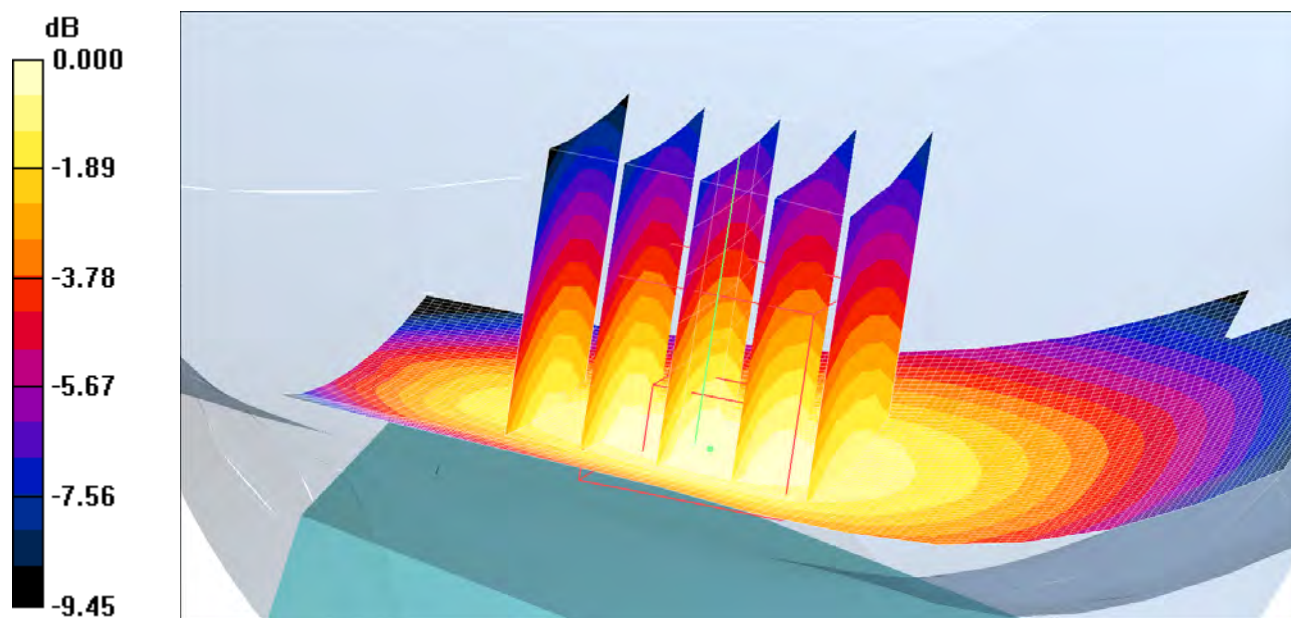
Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 21.2 V/m; Power Drift = 0.095 dB

Peak SAR (extrapolated) = 0.679 W/kg

SAR(1 g) = 0.573 mW/g; SAR(10 g) = 0.429 mW/g

Maximum value of SAR (measured) = 0.604 mW/g



0 dB = 0.604mW/g

Date/Time: 3/17/2009 10:05:45 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Frances18-LeftHandSide-GSM850-Touch-Middle**DUT: Frances; Type: DUT; Serial: #14903**

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/m³

Phantom section: Left Section

Measurement Standard: DASY4 (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: 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) = 0.741 mW/g

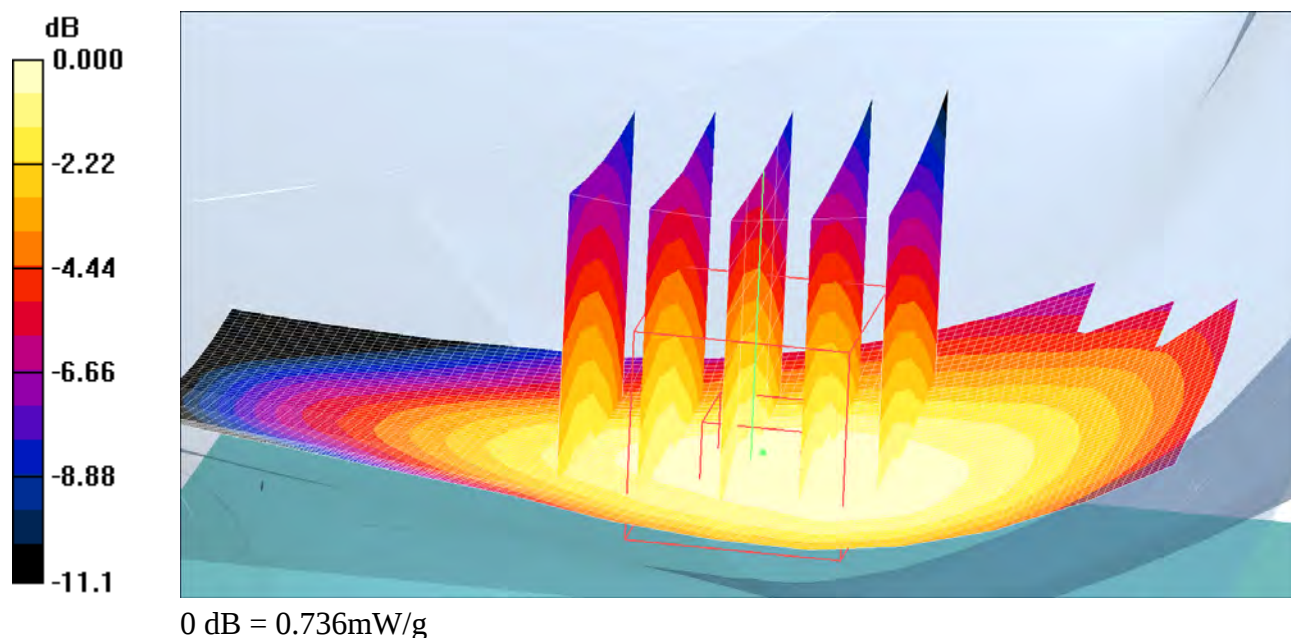
Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.1 V/m; Power Drift = -0.287 dB

Peak SAR (extrapolated) = 0.851 W/kg

SAR(1 g) = 0.695 mW/g; SAR(10 g) = 0.523 mW/g

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



Date/Time: 3/23/2009 1:50:34 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Frances18-RightHandSide-GSM1900-Tilt-Middle**DUT: Frances; Type: DUT; Serial: #14903**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (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: DASY4, 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) = 0.266 mW/g

Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:

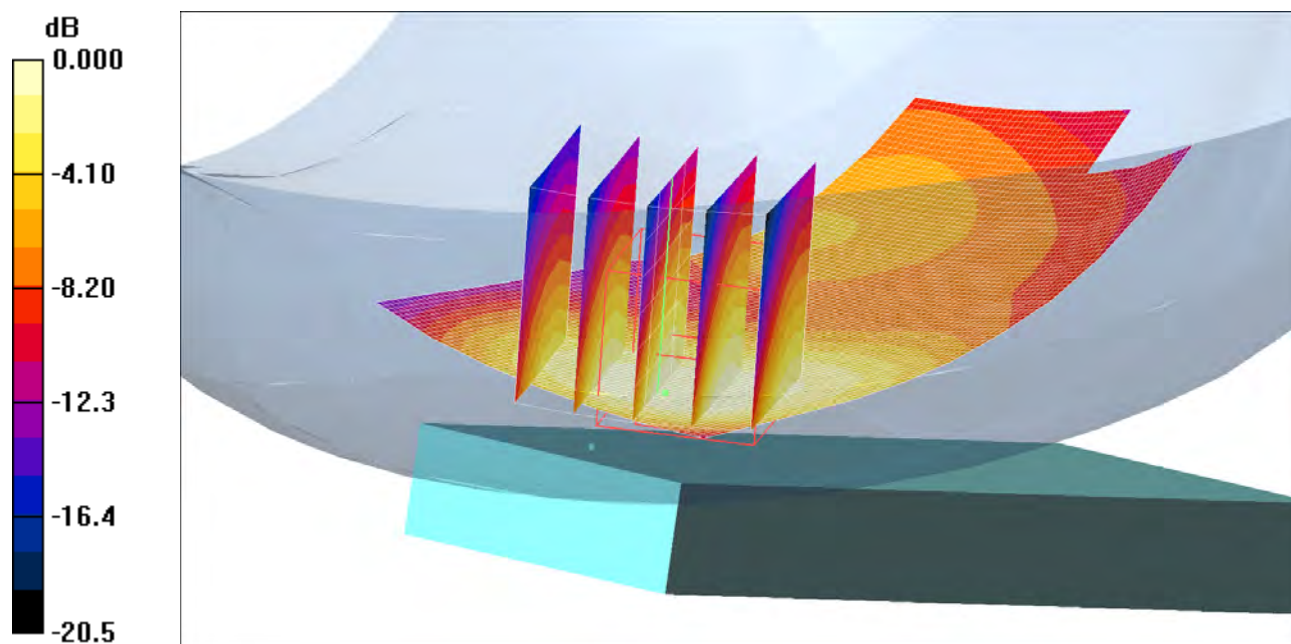
dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.4 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.138 mW/g

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



0 dB = 0.248mW/g

Date/Time: 3/23/2009 1:34:06 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Frances18-RightHandSide-GSM1900-Touch-Middle**DUT: Frances; Type: DUT; Serial: #14903**

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

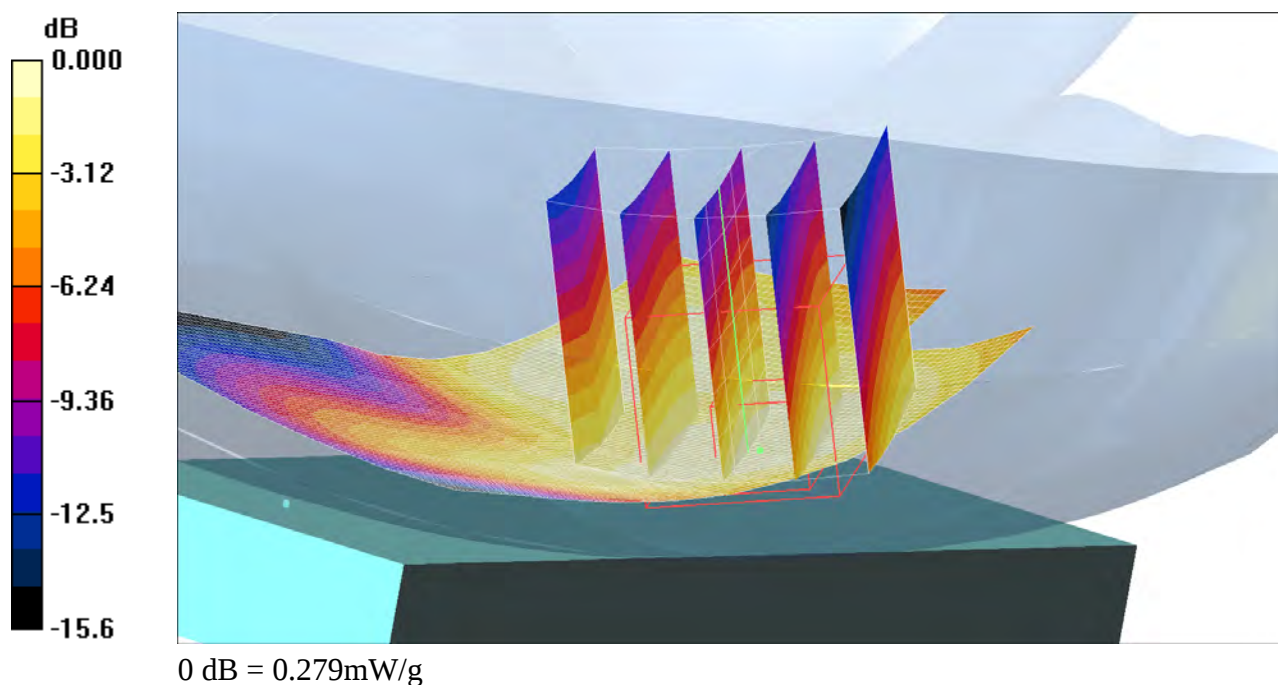
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.4$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (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: 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) = 0.287 mW/g
- Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.91 V/m; Power Drift = -0.121 dB
Peak SAR (extrapolated) = 0.394 W/kg
SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.167 mW/g
Maximum value of SAR (measured) = 0.279 mW/g



Date/Time: 3/17/2009 1:31:58 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Frances18-RightHandSide-GSM850-Tilt-Middle**DUT: Frances; Type: DUT; Serial: #14903**

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/m³

Phantom section: Right Section

Measurement Standard: DASY4 (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: DASY4, 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) = 0.642 mW/g

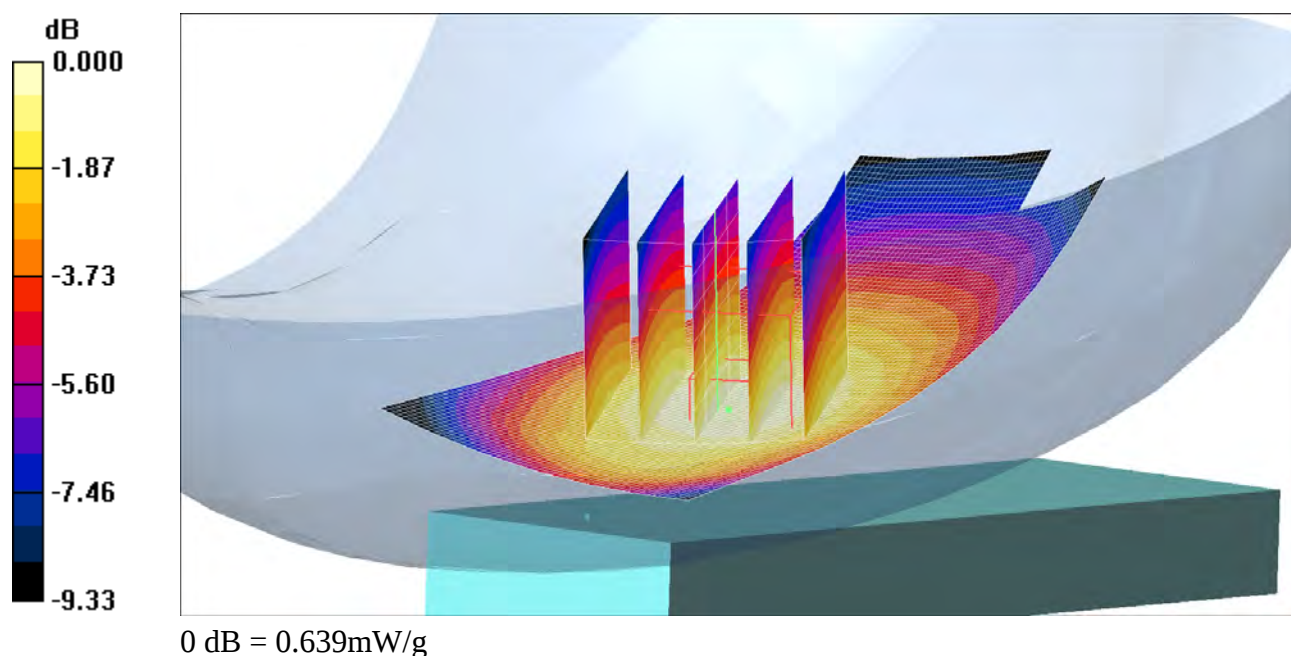
Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid:
 dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.2 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 0.728 W/kg

SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.453 mW/g

Maximum value of SAR (measured) = 0.639 mW/g



Date/Time: 3/17/2009 2:44:59 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Frances18-RightHandSide-GSM850-Touch-Low**DUT: Frances; Type: DUT; Serial: #14903**

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

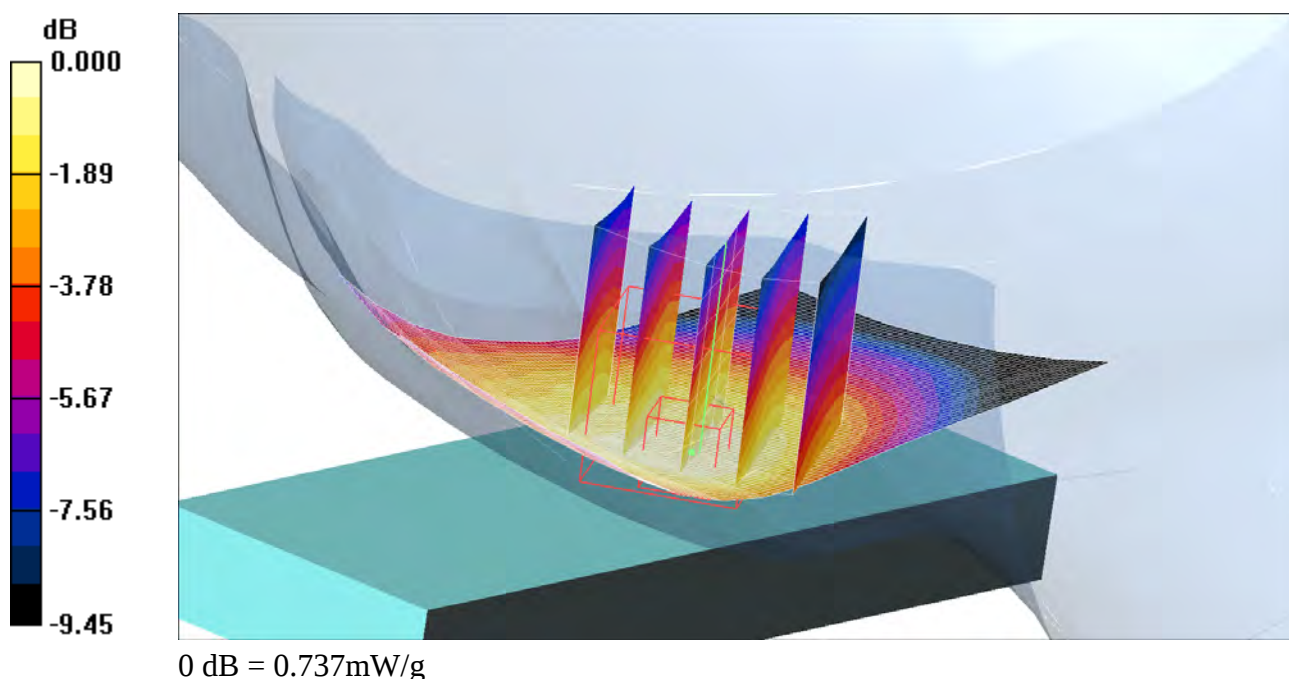
Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (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: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Low -/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.736 mW/g
- Touch position - Low -/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.7 V/m; Power Drift = 0.003 dB
Peak SAR (extrapolated) = 0.889 W/kg
SAR(1 g) = 0.689 mW/g; SAR(10 g) = 0.510 mW/g
Maximum value of SAR (measured) = 0.737 mW/g



Date/Time: 3/23/2009 10:49:22 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-23-03-09**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

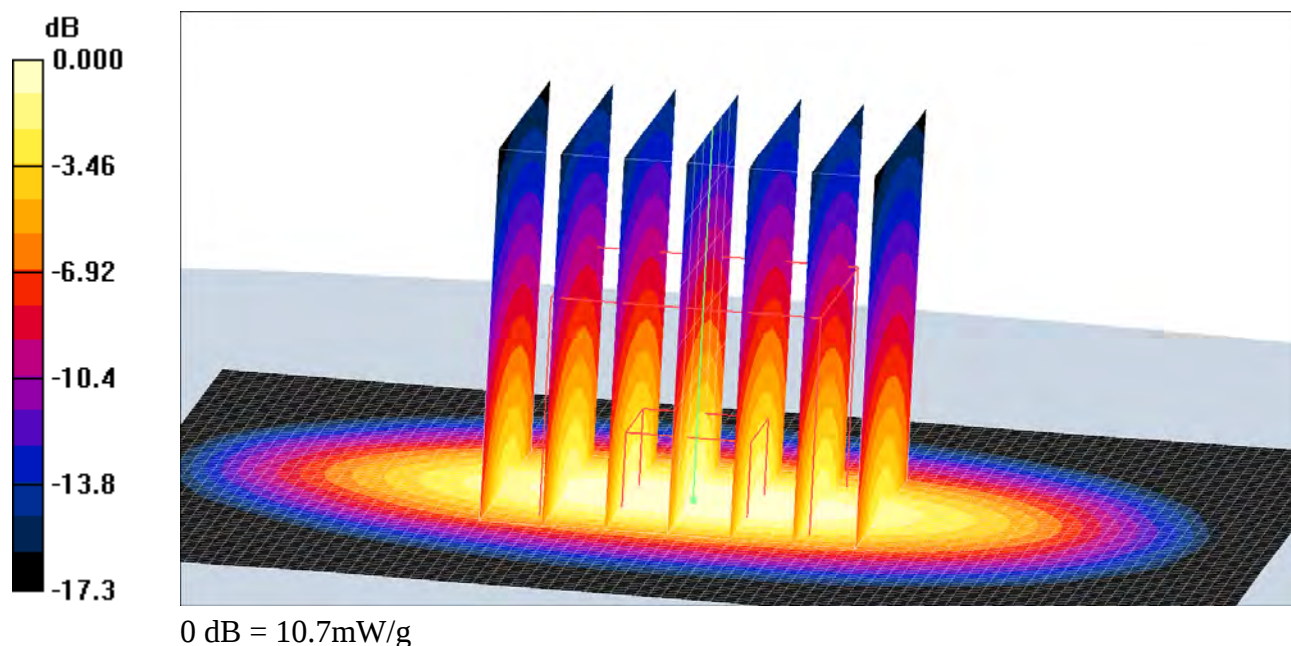
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.41 \text{ mho/m}$; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, 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 = 91.3 V/m; Power Drift = -0.009 dB
Peak SAR (extrapolated) = 16.8 W/kg
SAR(1 g) = 9.49 mW/g; SAR(10 g) = 4.99 mW/g
Maximum value of SAR (measured) = 10.7 mW/g



Date/Time: 3/24/2009 10:30:17 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-Body-24-03-09**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

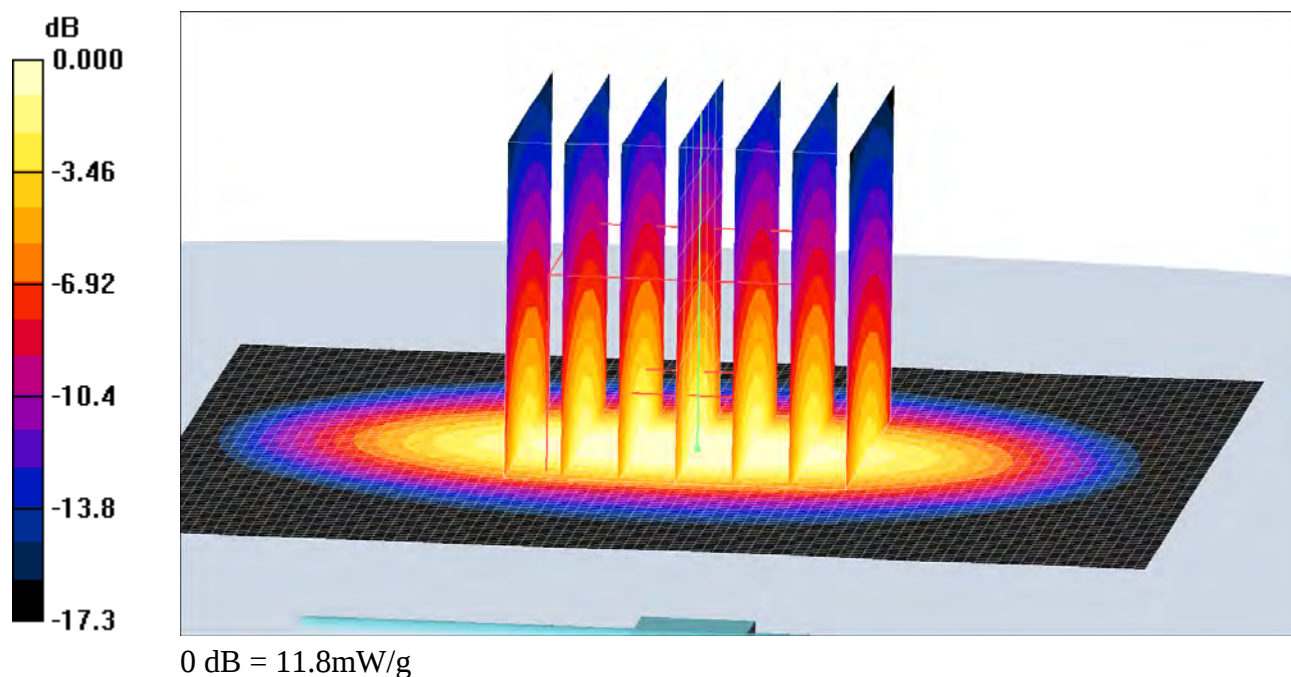
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 50.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, 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 = 90.8 V/m; Power Drift = -0.088 dB
Peak SAR (extrapolated) = 18.7 W/kg
SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.52 mW/g
Maximum value of SAR (measured) = 11.8 mW/g



Date/Time: 3/17/2009 9:21:40 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-17-03-09**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

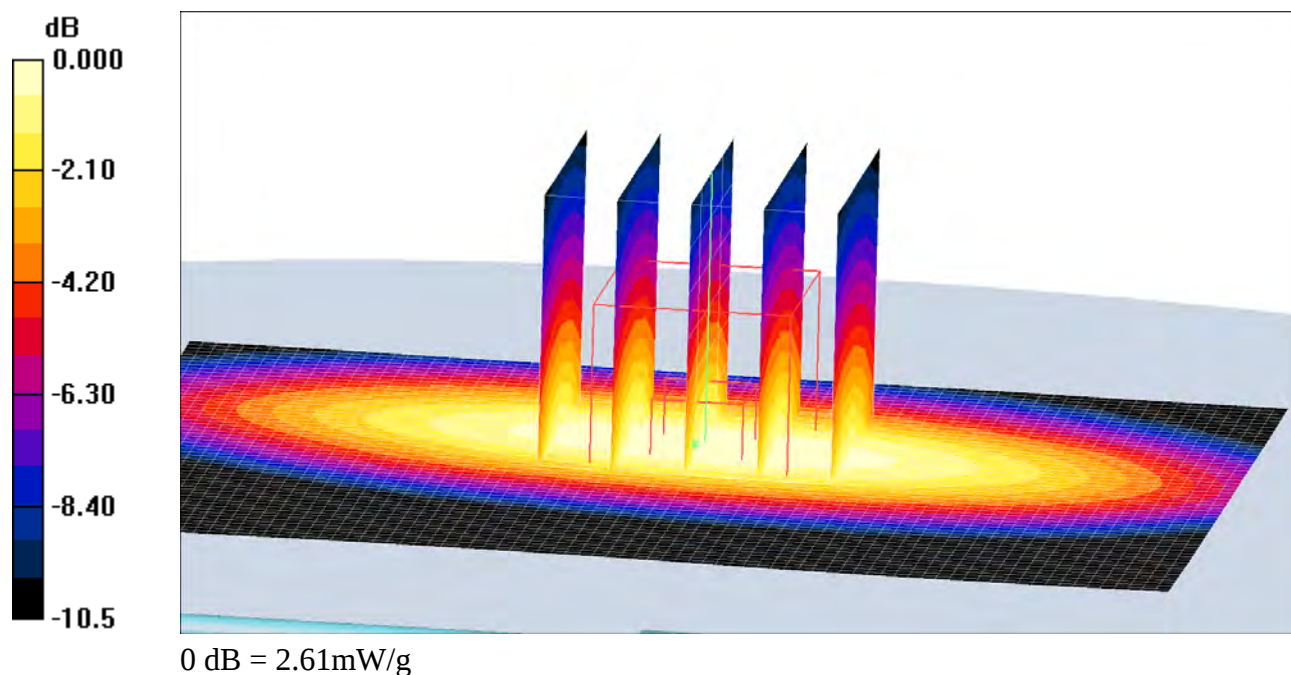
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (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: 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 = 54.2 V/m; Power Drift = -0.059 dB
Peak SAR (extrapolated) = 3.38 W/kg
SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.6 mW/g
Maximum value of SAR (measured) = 2.61 mW/g



Date/Time: 3/20/2009 9:28:44 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-Body-20-03-09**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (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: 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) = 2.69 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.9 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 3.40 W/kg
SAR(1 g) = 2.49 mW/g; SAR(10 g) = 1.66 mW/g
Maximum value of SAR (measured) = 2.70 mW/g

