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BA/SEMC/CCMVAU Rob Carr

Approved

LD/SEMC/CCMVALEC Peter Lindeborg

Checked

PL

Company Internal
REPORT

No.

CCDA09:499.

Date

090908

Rev

A

Reference

File

Report issued by Accredited SAR Laboratory**for****FCC ID: PY7A3880049 (X5)****Date of test:** August 20th to September 4th 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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Peter Lindeborg

Statement of Compliance

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

Sony Ericsson Type AAD-3880049-BV; FCC ID PY7A3880049; IC 4170B-A3880049

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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CCDA09:499.

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090908

Rev

A

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File

Table of contents

1	INTRODUCTION	3
2	CUSTOMER DETAILS	3
3	DEVICE UNDER TEST	3
3.1	ANTENNA DESCRIPTION	3
3.2	DEVICE DESCRIPTION	4
4	TEST EQUIPMENT.....	5
4.1	DOSIMETRIC SYSTEM	5
4.2	ADDITIONAL EQUIPMENT	5
5	ELECTRICAL PARAMETERS ON THE TISSUE SIMULATING LIQUID	6
6	SYSTEM ACCURACY VERIFICATION	7
7	SAR MEASUREMENT UNCERTAINTY	8
8	TEST RESULTS	9
9	REFERENCES	11
APPENDIX		12
9.1	PHOTOGRAPHS OF THE DEVICE UNDER TEST.....	12
9.2	DEVICE POSITION AT SAM TWIN PHANTOM	13
9.3	ATTACHMENTS	14



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1 Introduction

In this test report, compliance of the Sony Ericsson FCC ID: PY7A3880049 (X5) 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 Japan
Address:	W Building 1-8-15 Konan Minato-ku Tokyo Japan
Contact Name:	Manev Mehta

3 Device Under Test

3.1 Antenna Description

Type	Internal antenna	
Location	Bottom of phone	
Main and BT antennas distance	4.2 mm	
Dimensions	Max length	39 mm
	Max width	10 mm
Configuration	Monopole	



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090908

Rev

A

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File

3.2 Device Description

Device model	AAD-3880049-BV					
Market name	X5					
Serial number (EUT #)	CB511DP6G9 (#16102) CB511DP7YU (#16104) Bluetooth sample					
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 (#16102)	33.4	33.5	33.4	29.8	29.9	29.9
Product Maximum power Level [dBm] ¹	33.5	33.5	33.5	30.0	30.0	30.0
Data mode	GPRS			GPRS		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹ (#16102)	32.5	32.4	32.4	28.4	28.4	28.4
Product Maximum power Level [dBm] ¹	32.5	32.5	32.5	28.5	28.5	28.5
Data mode	EDGE			EDGE		
Crest factor	4.15			4.15		
Measured Power Level [dBm] ¹ (#16102)	27.8	27.8	28.0	25.9	25.8	25.9
Product Maximum power Level [dBm] ¹	28.0	28.0	28.0	26.0	26.0	26.0
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 (#16102) & (#16104)
Software version	R1BA022
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
Dipole Validation Kit, D2450V2	721	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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CCDA09:499.

Date

090908

Rev

A

Reference

File

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, 2009-08-20	41.64	0.89	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2009-08-21	52.71	0.97	1.00
		Recommended	55.20	0.97	1.00
1900	Head	Measured, 2009-09-02	38.59	1.45	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2009-09-03	50.69	1.59	1.00
		Recommended	53.30	1.52	1.00
2450	Head	Measured, 2009-09-04	37.40	1.89	1.00
		Recommended	39.20	1.80	1.00
2450	Body	Measured, 2009-09-04	50.37	2.04	1.00
		Recommended	52.70	1.95	1.00



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No.

CCDA09:499.

Date

090908

Rev

A

Reference

File

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]
				ϵ_r	σ [S/m]	ρ [g/cm ³]	
835	Head	Measured, 2009-08-20	10.02	41.64	0.89	1.00	21.9
		Recommended	9.34	41.50	0.90	1.00	22.0
835	Body	Measured, 2009-08-21	10.32	52.71	0.97	1.00	22.0
		Recommended	9.85	55.20	0.97	1.00	22.0
1900	Head	Measured, 2009-09-02	38.00	38.59	1.45	1.00	21.9
		Recommended	41.30	40.00	1.40	1.00	22.0
1900	Body	Measured, 2009-09-03	42.80	50.69	1.59	1.00	22.4
		Recommended	41.30	53.30	1.52	1.00	22.0
2450	Head	Measured, 2009-09-04	53.60	37.40	1.89	1.00	21.4
		Recommended	54.10	39.20	1.80	1.00	22.0
2450	Body	Measured, 2009-09-04	57.60	50.37	2.04	1.00	21.4
		Recommended	53.10	52.70	1.95	1.00	22.0



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Rev

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File

7 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880049 (X5) 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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090908

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A

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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 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.

Band	Channel	Measured output power ¹ [dBm]	Position	Liquid T [°C]	Measured SAR [W/Kg]	
					Left-hand 1g mass	Right-hand 1g mass
GSM 850	128	33.4	Cheek	21.9	0.53	0.50
			Tilt	21.9	-	-
	190	33.5	Cheek	21.9	0.56	0.61
			Tilt	21.9	0.26	0.29
	251	33.4	Cheek	21.9	0.59	0.65
			Tilt	21.9	-	-
GSM1900	512	29.8	Cheek	21.9	0.83	1.03
			Tilt	21.9	-	-
	661	29.9	Cheek	21.9	1.00	1.14
			Tilt	21.9	0.26	0.29
	810	29.9	Cheek	21.9	1.17	1.34
			Tilt	21.9	-	-
BT	0	7.99	Cheek	21.4	0.001	0.006
			Tilt	21.4	-	-
	39		Cheek	21.4	0.01	0.009
			Tilt	21.4	0.002	0.001
	78		Cheek	21.4	0.02	0.01
			Tilt	21.4	-	-

Table 1: SAR measurement result for Sony Ericsson PY7A3880049 telephone at highest possible output power. Measured towards the head.

¹ The measured output power values were provided by the customer.



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Company Internal
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CCDA09:499.

Date

090908

Rev

A

Reference

File

Band	Channel	Measured output power ¹ [dBm]	Position / Mode	Liquid T [°C]	Measured SAR [W/kg] 1g mass
GSM 850	128	32.5	Back / GPRS	21.9	0.47
		33.4	Back / Speech	21.9	0.34
	190	32.4	Back / GPRS	21.9	0.53
		33.5	Back / Speech	21.9	0.37
	251	32.4	Back / GPRS	21.9	0.62
		33.4	Back / Speech	21.9	0.40
		33.4	Back / PHF	21.9	0.42
		32.4	Front / GPRS	21.9	0.55
		28.0	Back / Edge	21.9	0.23
		28.4	Back / GPRS	22.4	0.87
GSM 1900	512	29.8	Back / Speech	22.4	0.66
		28.4	Back / GPRS	22.4	0.82
	661	29.9	Back / Speech	22.4	0.64
		28.4	Back / GPRS	22.4	0.95
	810	29.9	Back / Speech	22.4	0.75
		29.9	Back / PHF	22.4	0.57
		28.4	Front / GPRS	22.4	0.75
		25.9	Back / Edge	22.4	0.57
	0	7.99	Back / BT	21.4	0.003
			Back / BT	21.4	0.004
			Back / BT	21.4	0.004

Table 2: SAR measurement result for Sony Ericsson PY7A3880049 telephone at highest possible output power. Measured towards the body.

¹ The measured output power values were provided by the customer.



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CCDA09:499.

Date

090908

Rev

A

Reference

File

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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Date

090908

Rev

A

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Appendix

9.1 Photographs of the device under test



Front & Back Open



Sides Open



Top & Bottom Closed

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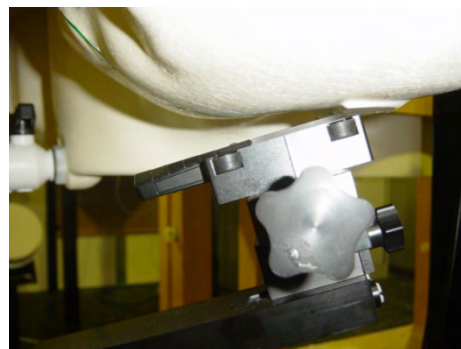
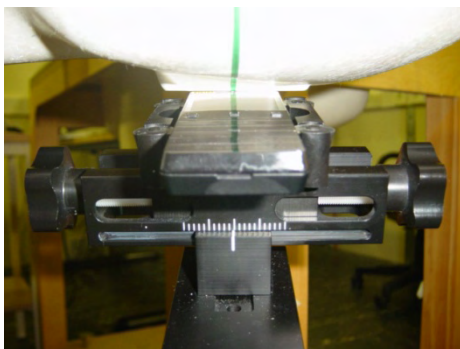
Reference

File

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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090908

Rev

A

Reference

File

9.3

Attachments

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

Date/Time: 8/20/2009 10:13:00 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-20-08-09**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

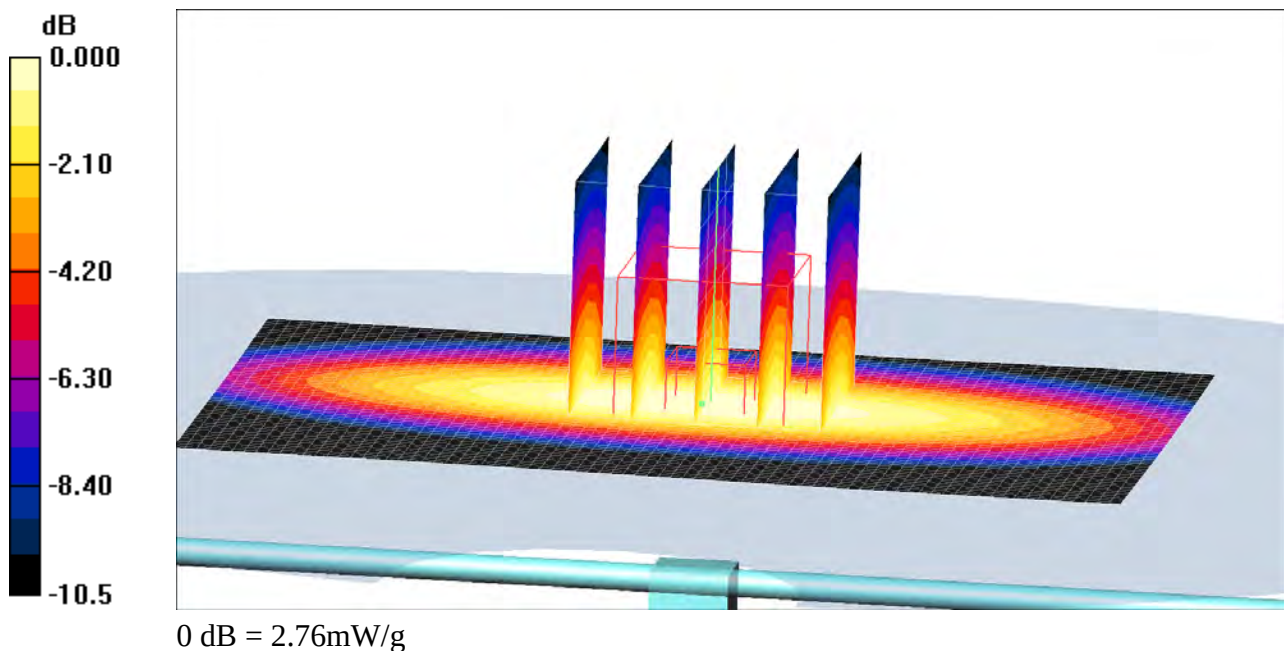
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

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) = 2.72 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 58.0 V/m; Power Drift = 0.008 dB
Peak SAR (extrapolated) = 3.58 W/kg
SAR(1 g) = 2.55 mW/g; SAR(10 g) = 1.68 mW/g
Maximum value of SAR (measured) = 2.76 mW/g



Date/Time: 8/21/2009 9:27:21 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-Body-21-08-09**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

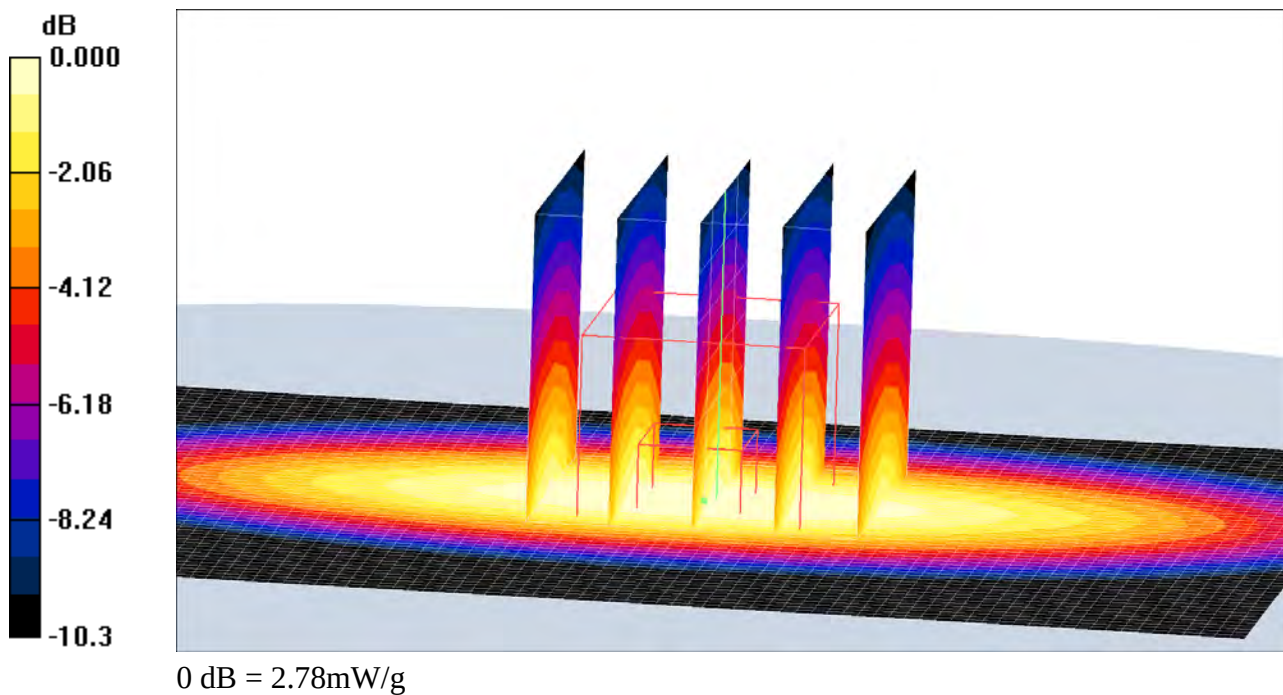
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

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) = 2.79 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 56.3 V/m; Power Drift = -0.040 dB
Peak SAR (extrapolated) = 3.53 W/kg
SAR(1 g) = 2.58 mW/g; SAR(10 g) = 1.72 mW/g
Maximum value of SAR (measured) = 2.78 mW/g



Date/Time: 9/2/2009 9:40:57 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-02-09-09**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

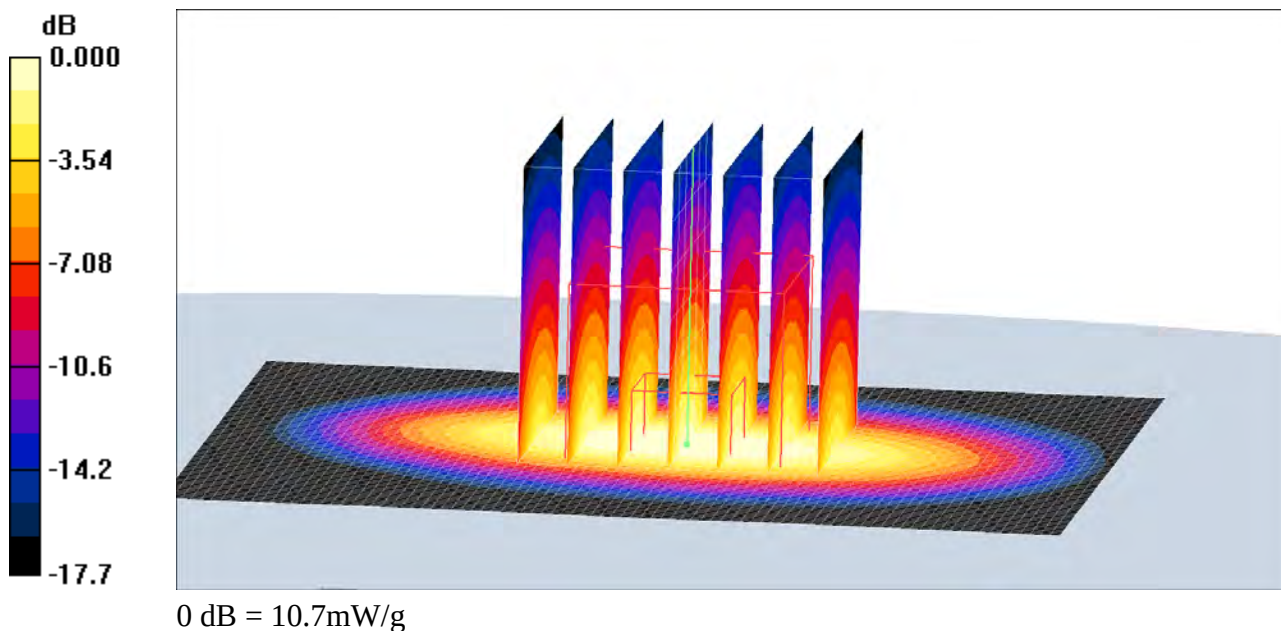
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.45 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$

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: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (interpolated) = 10.8 mW/g
d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 88.8 V/m; Power Drift = 0.066 dB
Peak SAR (extrapolated) = 17.2 W/kg
SAR(1 g) = 9.5 mW/g; SAR(10 g) = 4.94 mW/g
Maximum value of SAR (measured) = 10.7 mW/g



Date/Time: 9/3/2009 8:46:40 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

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

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

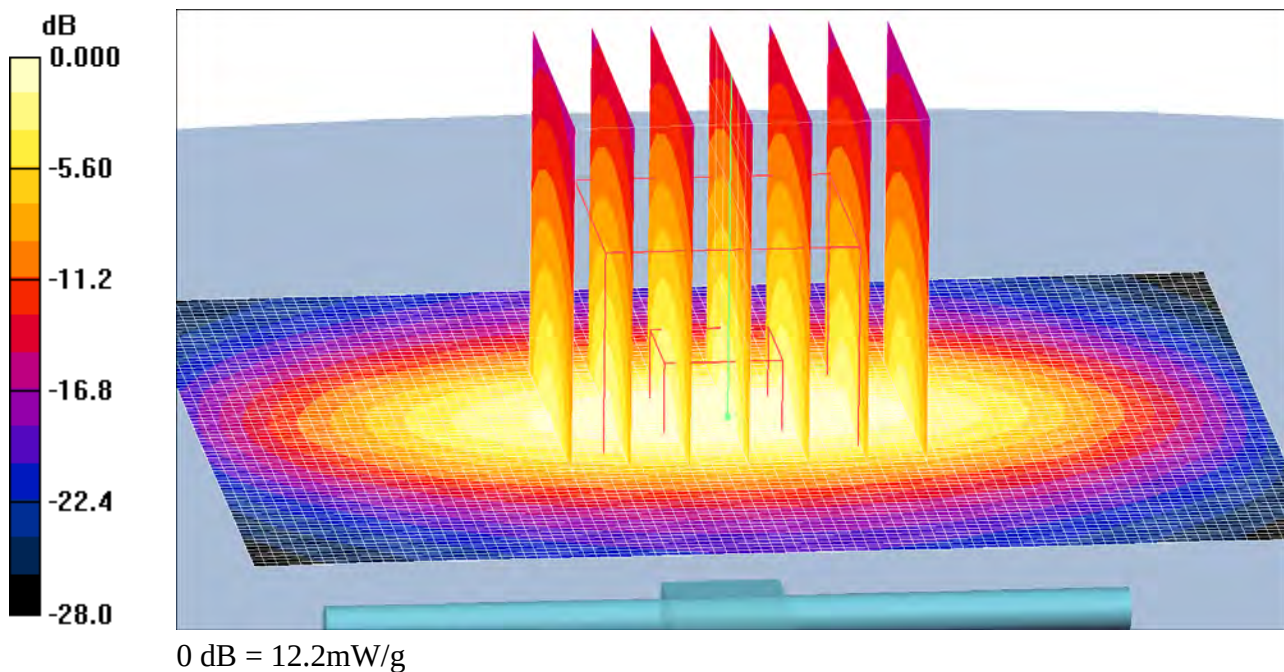
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.59$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

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) = 12.2 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 92.2 V/m; Power Drift = -0.057 dB
Peak SAR (extrapolated) = 19.2 W/kg
SAR(1 g) = 10.7 mW/g; SAR(10 g) = 5.6 mW/g
Maximum value of SAR (measured) = 12.1 mW/g



Date/Time: 9/4/2009 10:16:16 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D2450-04-09-09**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

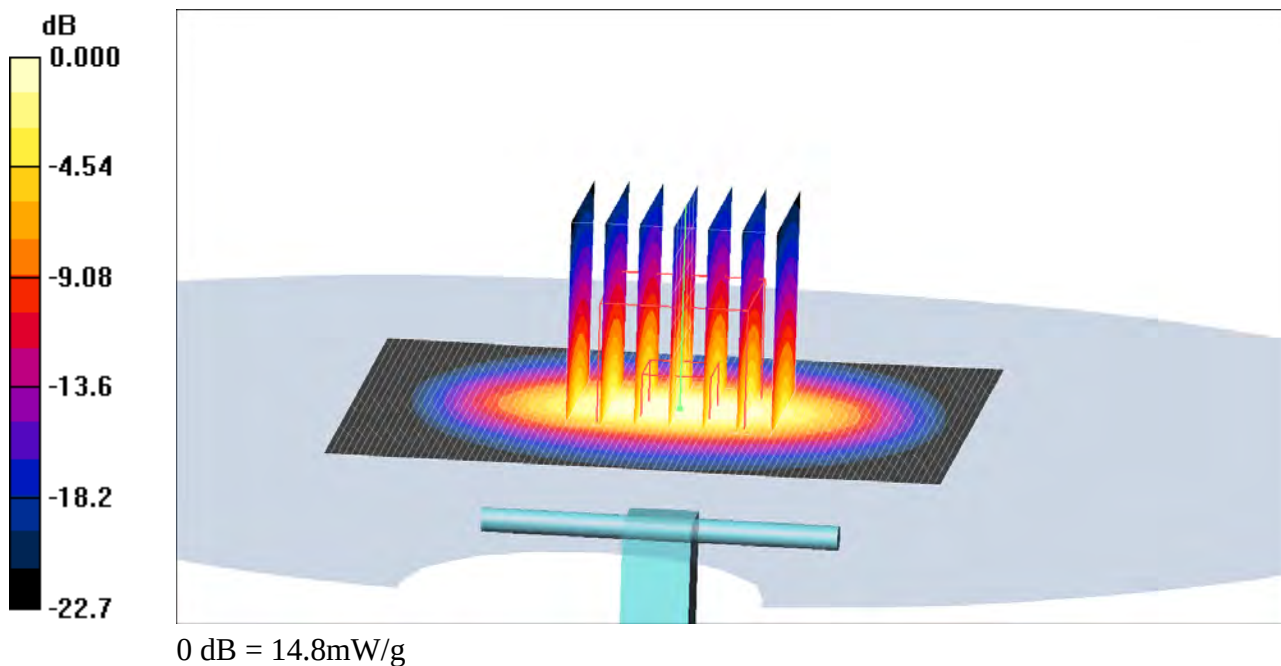
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.4$; $\rho = 1000$ kg/m³

Phantom section: Flat 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
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 15.0 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 = 0.037 dB
Peak SAR (extrapolated) = 32.1 W/kg
SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.08 mW/g
Maximum value of SAR (measured) = 14.8 mW/g



Date/Time: 9/4/2009 8:10:17 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D2450-Body-04-09-09**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

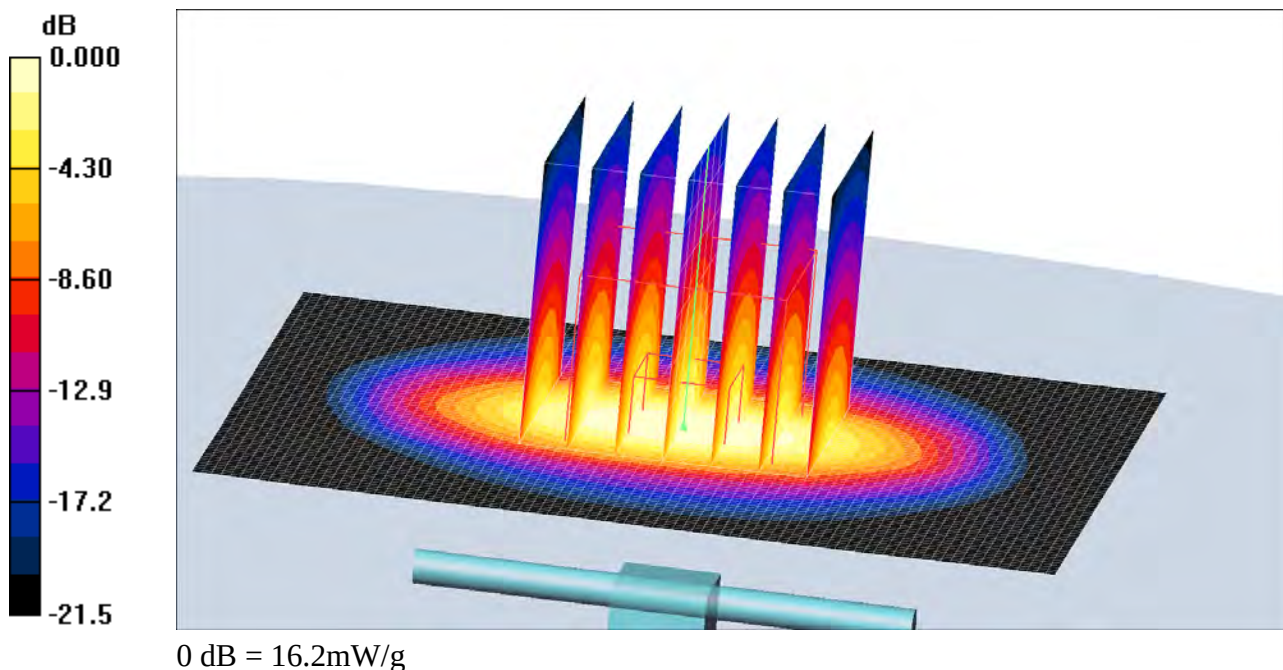
Medium parameters used: $f = 2450$ MHz; $\sigma = 2.04$ mho/m; $\epsilon_r = 50.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (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: 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) = 16.4 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 89.8 V/m; Power Drift = 0.053 dB
Peak SAR (extrapolated) = 33.2 W/kg
SAR(1 g) = 14.4 mW/g; SAR(10 g) = 6.6 mW/g
Maximum value of SAR (measured) = 16.2 mW/g



Date/Time: 9/3/2009 9:42:16 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-kiki-1900-GPRS-High**DUT: Kiki; Type:DUT; Serial:#16102**

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

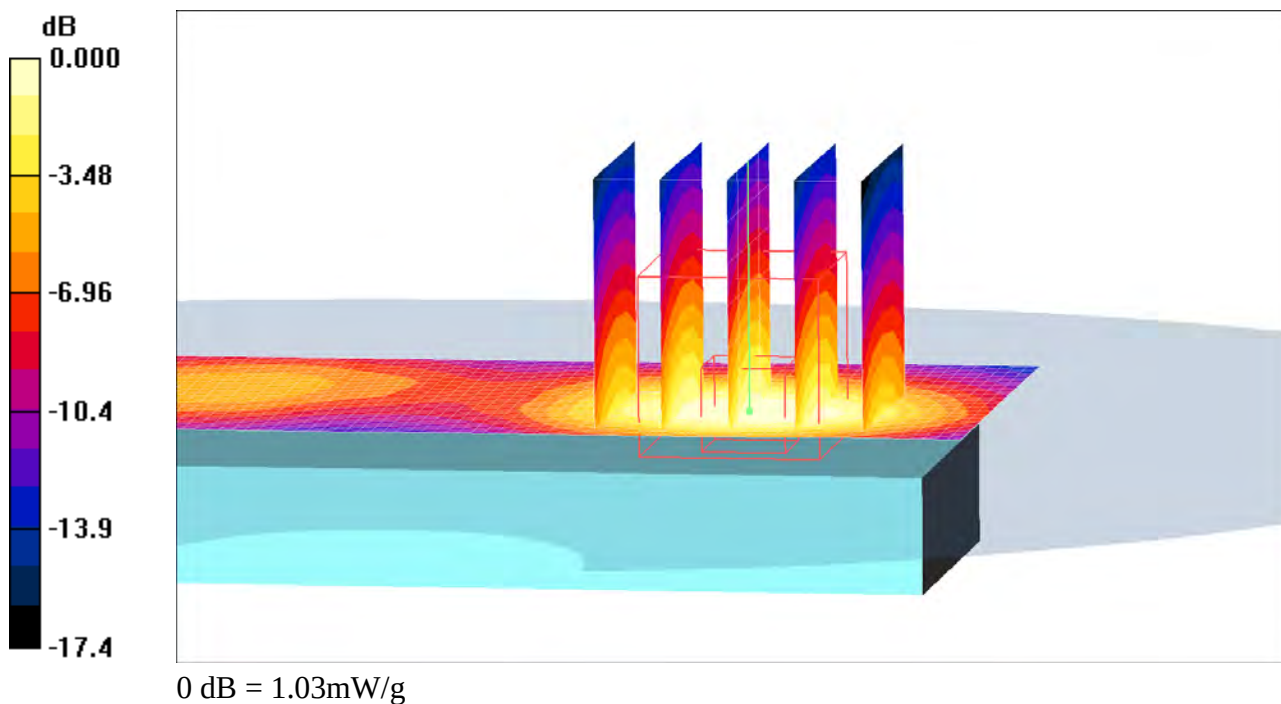
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.61 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

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 (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 1.11 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 = 11.0 V/m ; Power Drift = -0.014 dB Peak SAR (extrapolated) = 1.65 W/kg **SAR(1 g) = 0.945 mW/g ; SAR(10 g) = 0.534 mW/g** Maximum value of SAR (measured) = 1.03 mW/g 

Date/Time: 9/3/2009 10:07:28 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-kiki-1900-GPRS-High-Front-To-Phantom**DUT: Kiki; Type:DUT; Serial:#16102**

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

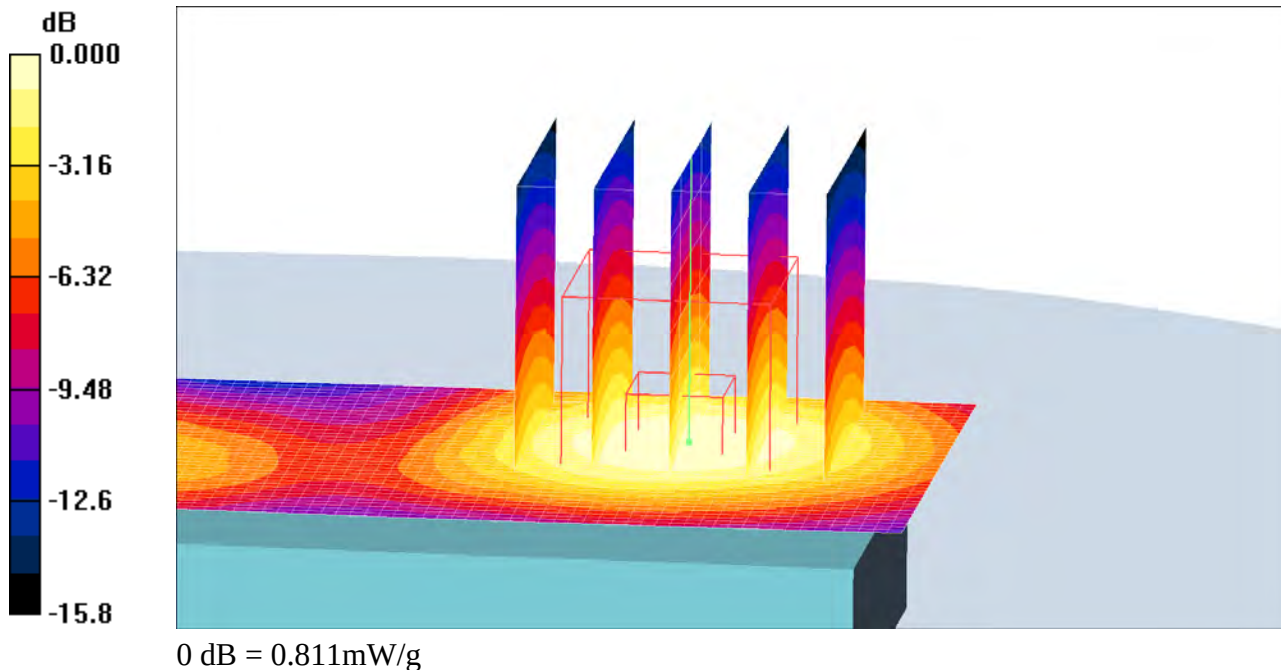
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.61 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

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 Front to phantom/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.851 mW/g **Body Front to phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 10.5 V/m ; Power Drift = -0.030 dB Peak SAR (extrapolated) = 1.23 W/kg **SAR(1 g) = 0.748 mW/g ; SAR(10 g) = 0.448 mW/g** Maximum value of SAR (measured) = 0.811 mW/g 

Date/Time: 9/3/2009 9:19:54 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-kiki-1900-GPRS-Low**DUT: Kiki; Type:DUT; Serial:#16102**

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

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ 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

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

Maximum value of SAR (interpolated) = 1.02 mW/g

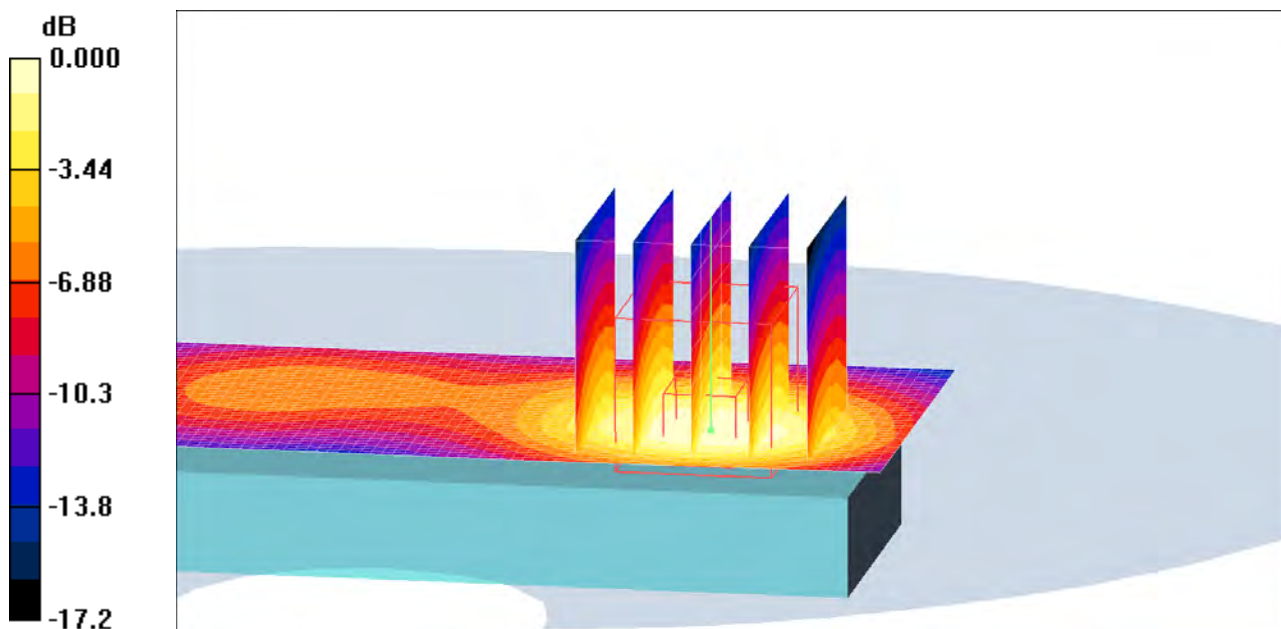
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.4 V/m; Power Drift = 0.045 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.865 mW/g; SAR(10 g) = 0.498 mW/g

Maximum value of SAR (measured) = 0.946 mW/g



0 dB = 0.946mW/g

Date/Time: 9/3/2009 9:31:04 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-kiki-1900-GPRS-Middle**DUT: Kiki; Type:DUT; Serial:#16102**

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

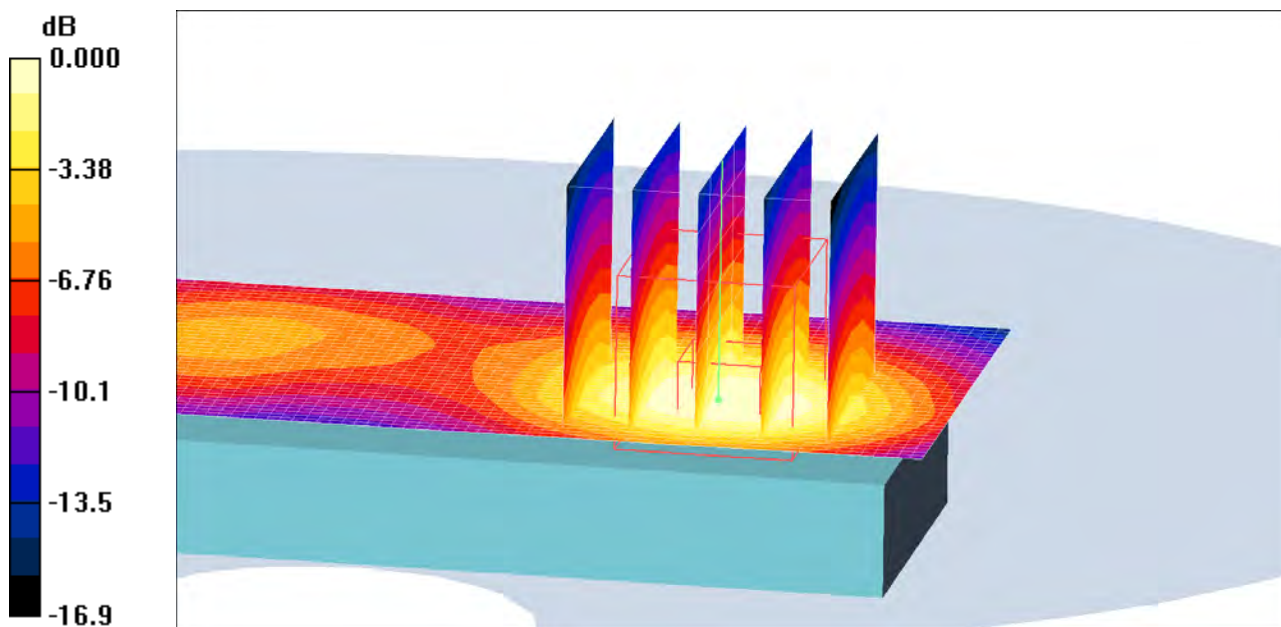
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.58 \text{ mho/m}$; $\epsilon_r = 50.8$; $\rho = 1000 \text{ kg/m}^3$

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 (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.961 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 = 11.7 V/m ; Power Drift = -0.066 dB Peak SAR (extrapolated) = 1.45 W/kg **SAR(1 g) = 0.824 mW/g ; SAR(10 g) = 0.469 mW/g** Maximum value of SAR (measured) = 0.899 mW/g 0 dB = 0.899 mW/g

Date/Time: 8/21/2009 10:48:06 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-kiki-850-GPRS-High**DUT: Kiki; Type: DUT; Serial: #16102**

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

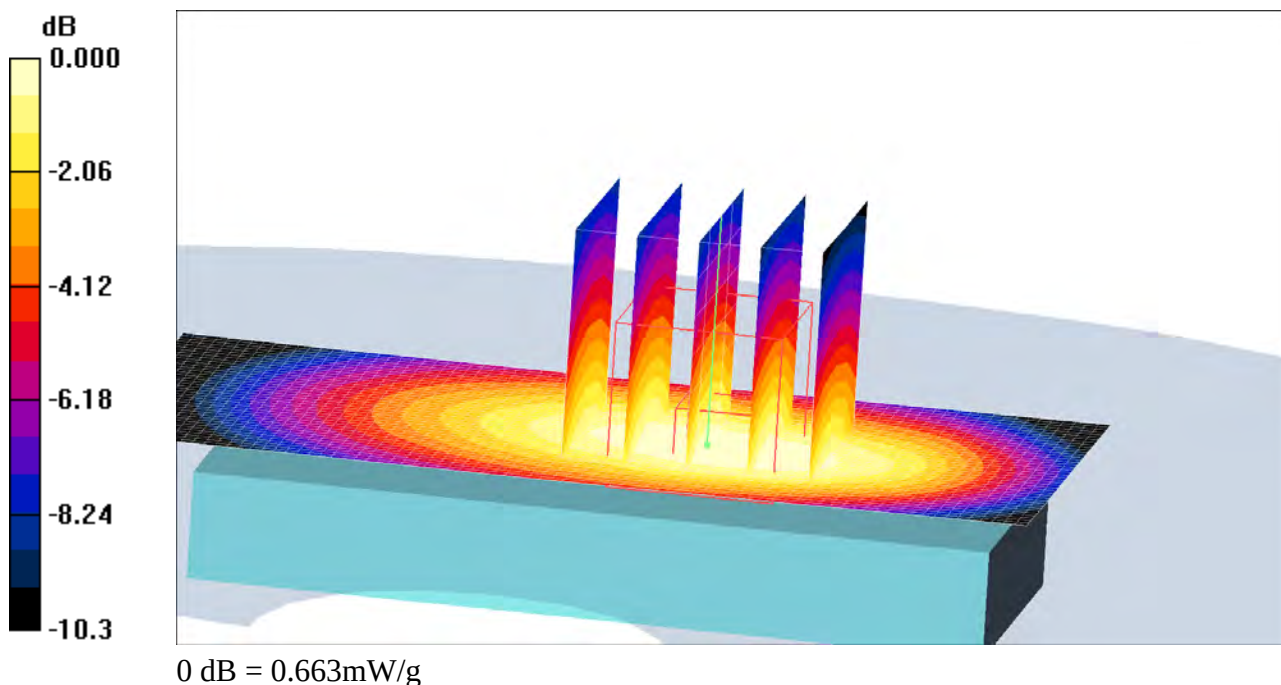
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

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 3/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.653 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 = 26.3 V/m ; Power Drift = -0.159 dB Peak SAR (extrapolated) = 0.780 W/kg **SAR(1 g) = 0.621 mW/g ; SAR(10 g) = 0.439 mW/g** Maximum value of SAR (measured) = 0.663 mW/g 

Date/Time: 8/21/2009 11:13:30 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-kiki-850-GPRS-High-Front-To-Phantom**DUT: Kiki; Type:DUT; Serial:#16102**

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

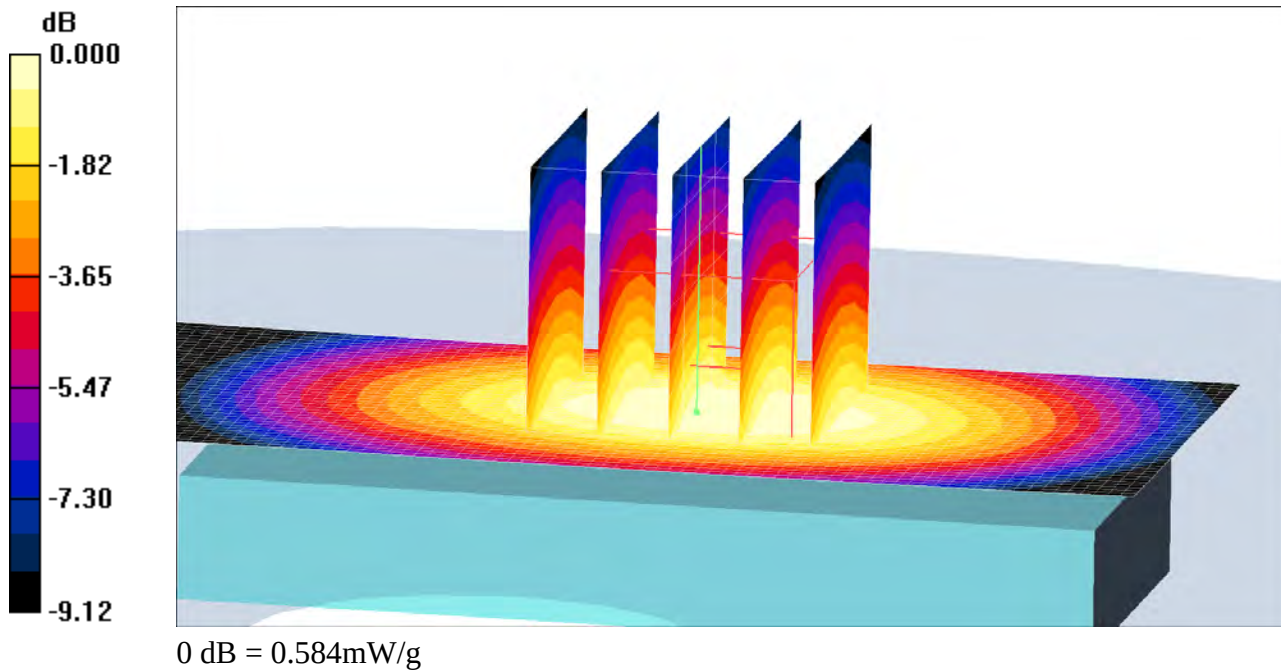
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

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 Front to phantom/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.596 mW/g **Body Front to phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 25.3 V/m ; Power Drift = 0.008 dB Peak SAR (extrapolated) = 0.680 W/kg **SAR(1 g) = 0.550 mW/g ; SAR(10 g) = 0.399 mW/g** Maximum value of SAR (measured) = 0.584 mW/g 

Date/Time: 8/21/2009 9:57:40 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-kiki-850-GPRS-Low**DUT: Kiki; Type:DUT; Serial:#16102**

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; $\epsilon_r = 52.9$; $\rho = 1000$ 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 (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.511 mW/g

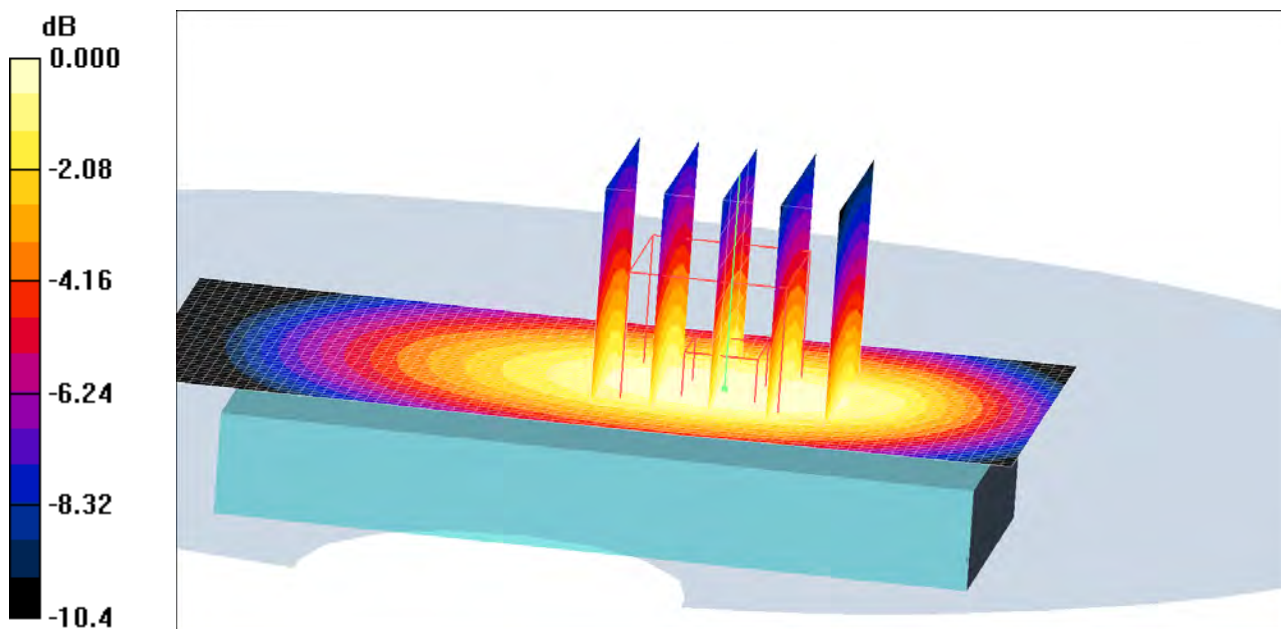
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.6 V/m; Power Drift = -0.145 dB

Peak SAR (extrapolated) = 0.595 W/kg

SAR(1 g) = 0.470 mW/g; SAR(10 g) = 0.333 mW/g

Maximum value of SAR (measured) = 0.503 mW/g



0 dB = 0.503mW/g

Date/Time: 8/21/2009 10:34:06 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-kiki-850-GPRS-Middle**DUT: Kiki; Type:DUT; Serial:#16102**

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

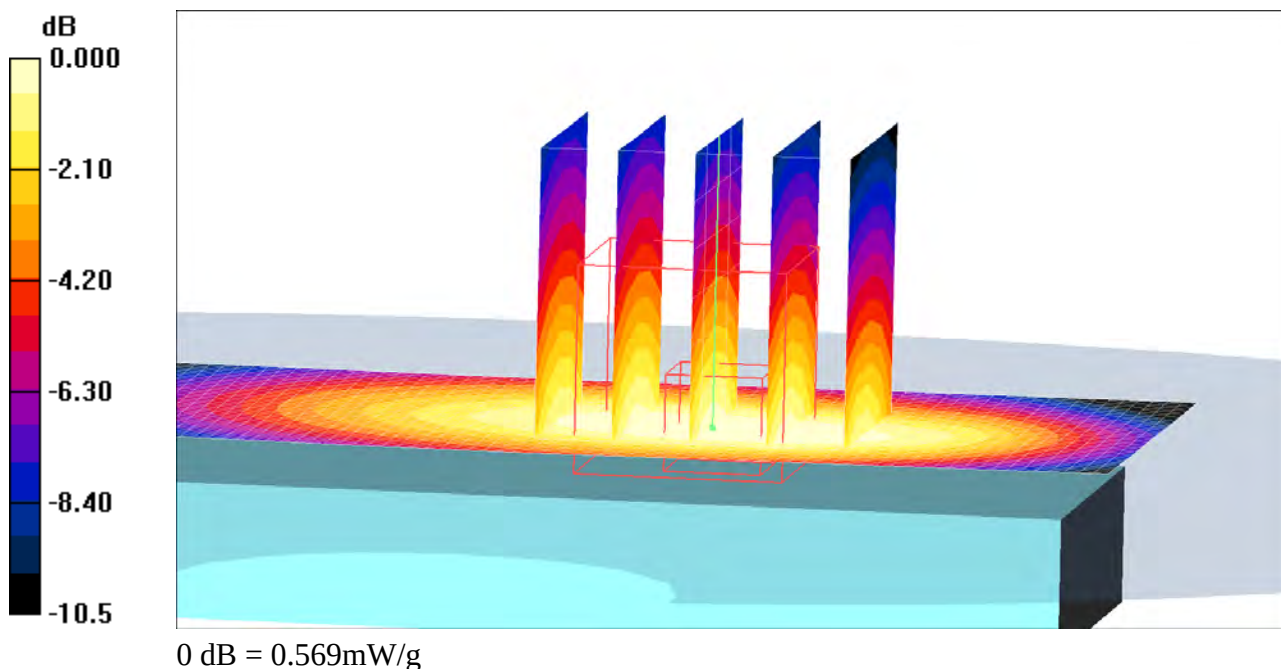
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

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 (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.582 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 = 23.8 V/m ; Power Drift = -0.187 dB Peak SAR (extrapolated) = 0.680 W/kg **SAR(1 g) = 0.530 mW/g ; SAR(10 g) = 0.373 mW/g** Maximum value of SAR (measured) = 0.569 mW/g 

Date/Time: 9/4/2009 9:51:00 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kiki-Body-Bluetooth-High**DUT: Kiki; Type:DUT; Serial:#16104**

Communication System: Bluetooth; Frequency: 2480 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2480$ MHz; $\sigma = 2.04$ mho/m; $\epsilon_r = 50.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, 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) = 0.005 mW/g

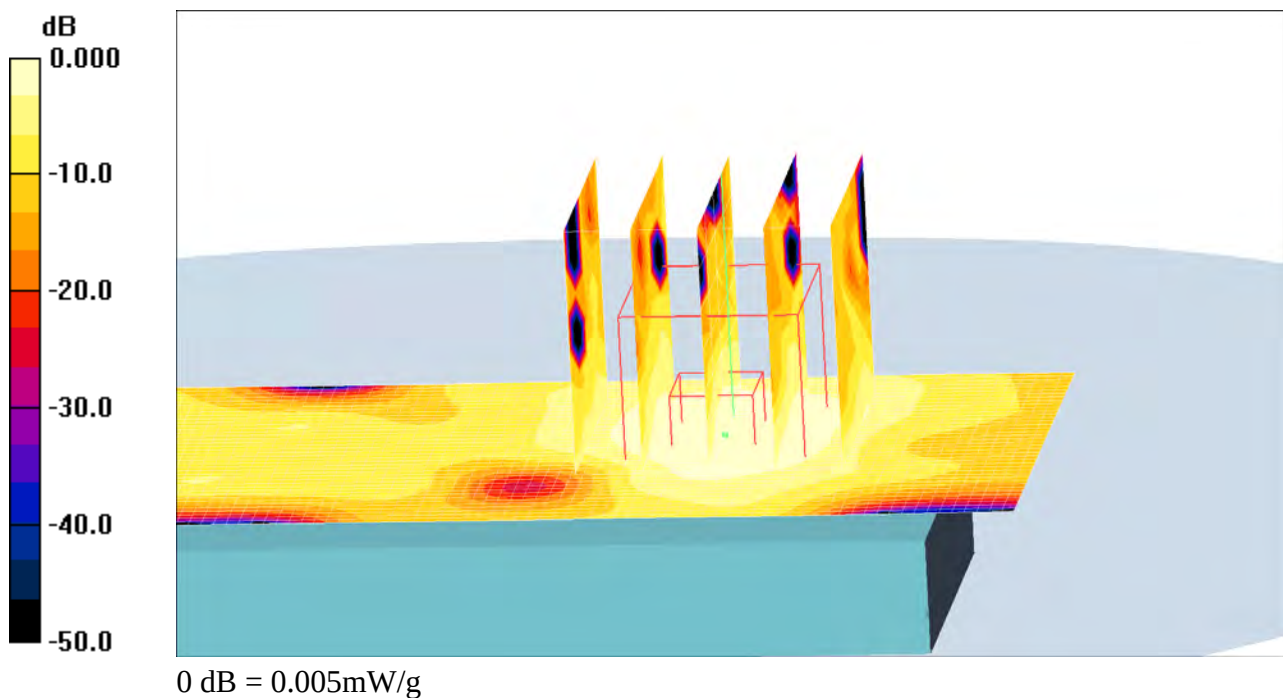
Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.648 V/m; Power Drift = 2.76 dB

Peak SAR (extrapolated) = 0.011 W/kg

SAR(1 g) = 0.00447 mW/g; SAR(10 g) = 0.00193 mW/g

Maximum value of SAR (measured) = 0.005 mW/g



Date/Time: 9/4/2009 9:28:30 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kiki-Body-Bluetooth-Low**DUT: Kiki; Type:DUT; Serial:#16104**

Communication System: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1

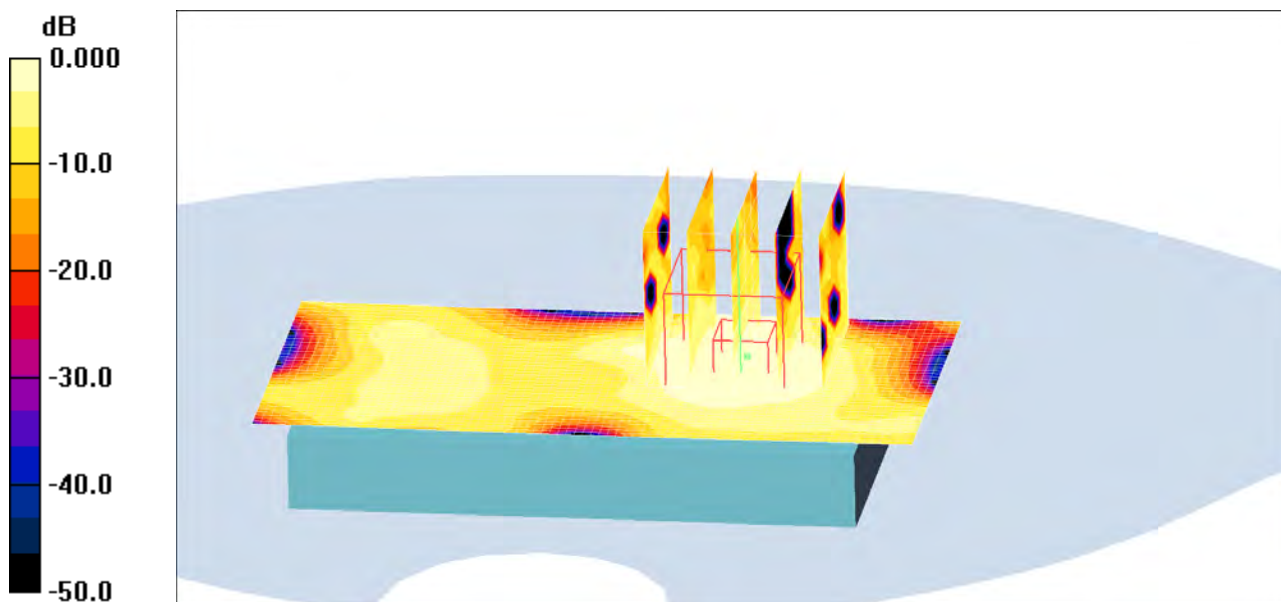
Medium parameters used: $f = 2402 \text{ MHz}$; $\sigma = 2.04 \text{ mho/m}$; $\epsilon_r = 50.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

Body/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.004 mW/g **Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 0.740 V/m ; Power Drift = -3.03 dB Peak SAR (extrapolated) = 0.011 W/kg **SAR(1 g) = 0.00323 mW/g ; SAR(10 g) = 0.00139 mW/g** Maximum value of SAR (measured) = 0.003 mW/g 0 dB = 0.003mW/g

Date/Time: 9/4/2009 9:39:25 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Kiki-Body-Bluetooth-Middle**DUT: Kiki; Type:DUT; Serial:#16104**

Communication System: Bluetooth; Frequency: 2441 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2441$ MHz; $\sigma = 2.04$ mho/m; $\epsilon_r = 50.4$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (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: DASY4, 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) = 0.005 mW/g

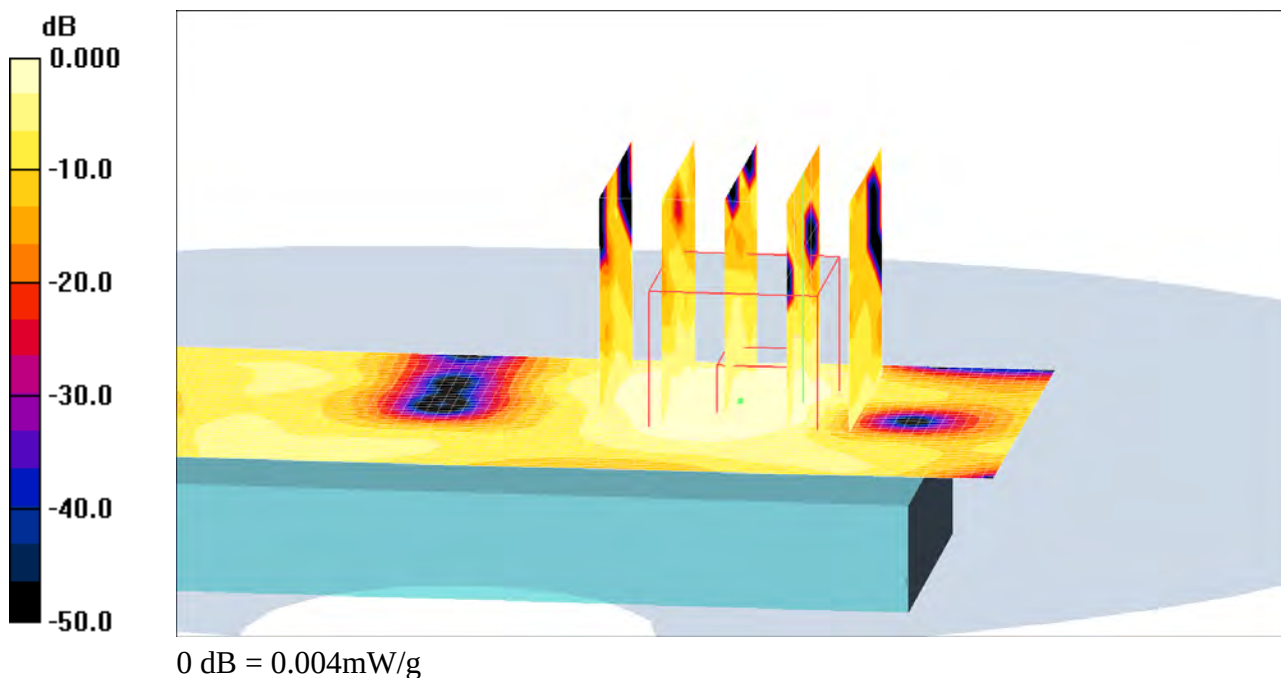
Body 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.607 V/m; Power Drift = 1.56 dB

Peak SAR (extrapolated) = 0.012 W/kg

SAR(1 g) = 0.00388 mW/g; SAR(10 g) = 0.00173 mW/g

Maximum value of SAR (measured) = 0.004 mW/g



Date/Time: 9/4/2009 11:00:57 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kiki-LeftHandSide-Bluetooth-Tilt-Middle**DUT: Kiki; Type:DUT; Serial:#16104**

Communication System: Bluetooth; Frequency: 2441 MHz;Duty Cycle: 1:1

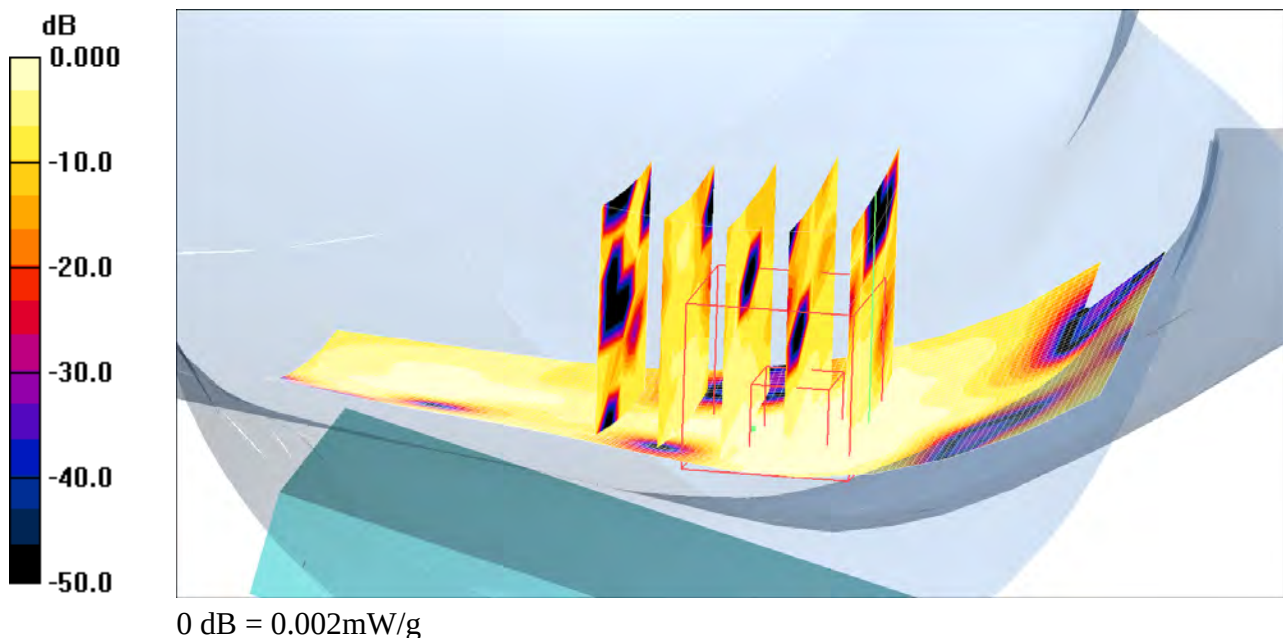
Medium parameters used: $f = 2441$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.4$; $\rho = 1000$ kg/m³

Phantom section: Left 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
- Tilt position - Middle/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.003 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.708 V/m; Power Drift = -0.540 dB
Peak SAR (extrapolated) = 0.011 W/kg
SAR(1 g) = 0.00245 mW/g; SAR(10 g) = 0.000844 mW/g
Maximum value of SAR (measured) = 0.002 mW/g



Date/Time: 9/4/2009 11:30:13 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kiki-LeftHandSide-Bluetooth-Touch-High**DUT: Kiki; Type:DUT; Serial:#16104**

Communication System: Bluetooth; Frequency: 2480 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.4$; $\rho = 1000$ kg/m³

Phantom section: Left 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 - High/Area Scan (51x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.020 mW/g

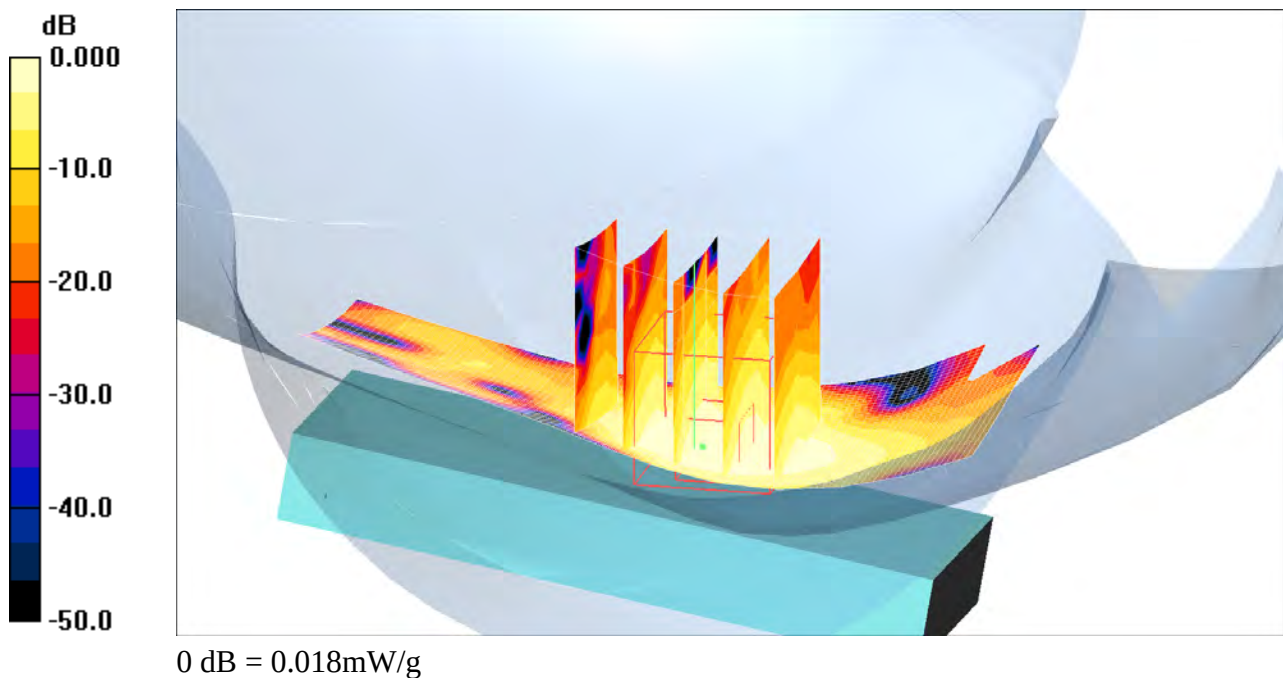
Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.545 V/m; Power Drift = -0.217 dB

Peak SAR (extrapolated) = 0.033 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00822 mW/g

Maximum value of SAR (measured) = 0.018 mW/g



Date/Time: 9/2/2009 10:22:53 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kiki-LeftHandSide-GSM1900-Tilt-Middle**DUT: Kiki; Type:DUT; Serial:#16102**

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

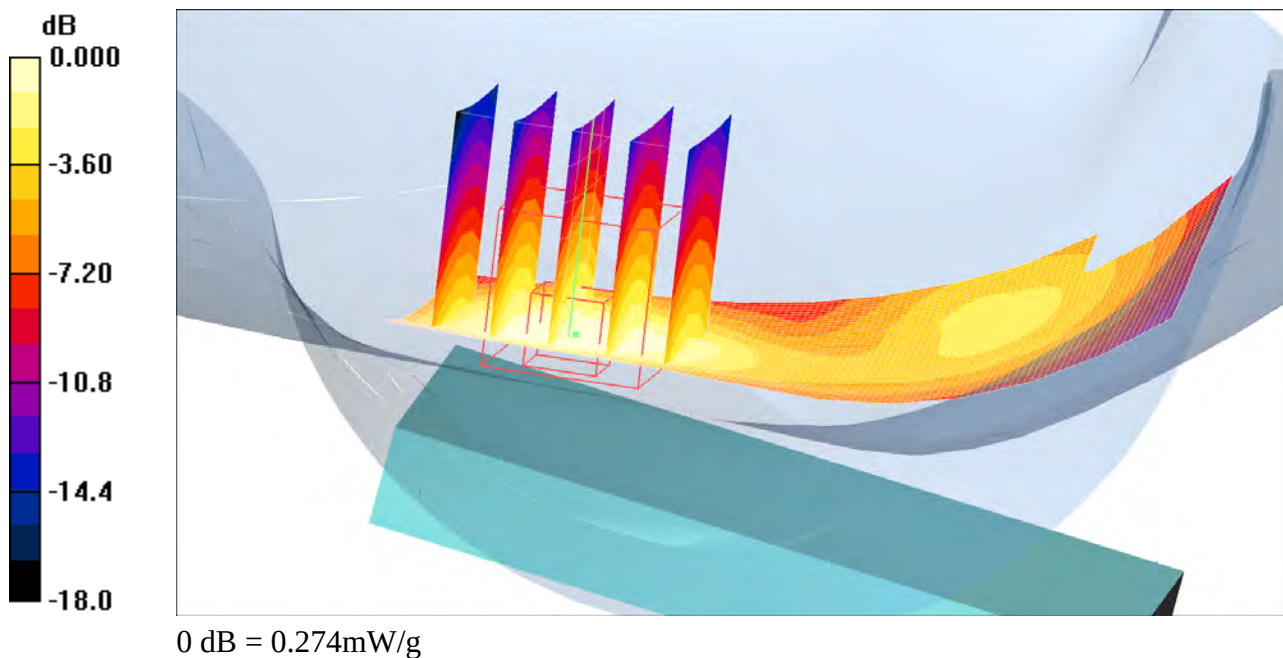
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

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 (51x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.275 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.7 V/m; Power Drift = 0.138 dB
Peak SAR (extrapolated) = 0.378 W/kg
SAR(1 g) = 0.255 mW/g; SAR(10 g) = 0.157 mW/g
Maximum value of SAR (measured) = 0.274 mW/g



Date/Time: 9/2/2009 10:08:14 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kiki-LeftHandSide-GSM1900-Touch-Middle**DUT: Kiki; Type:DUT; Serial:#16102**

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

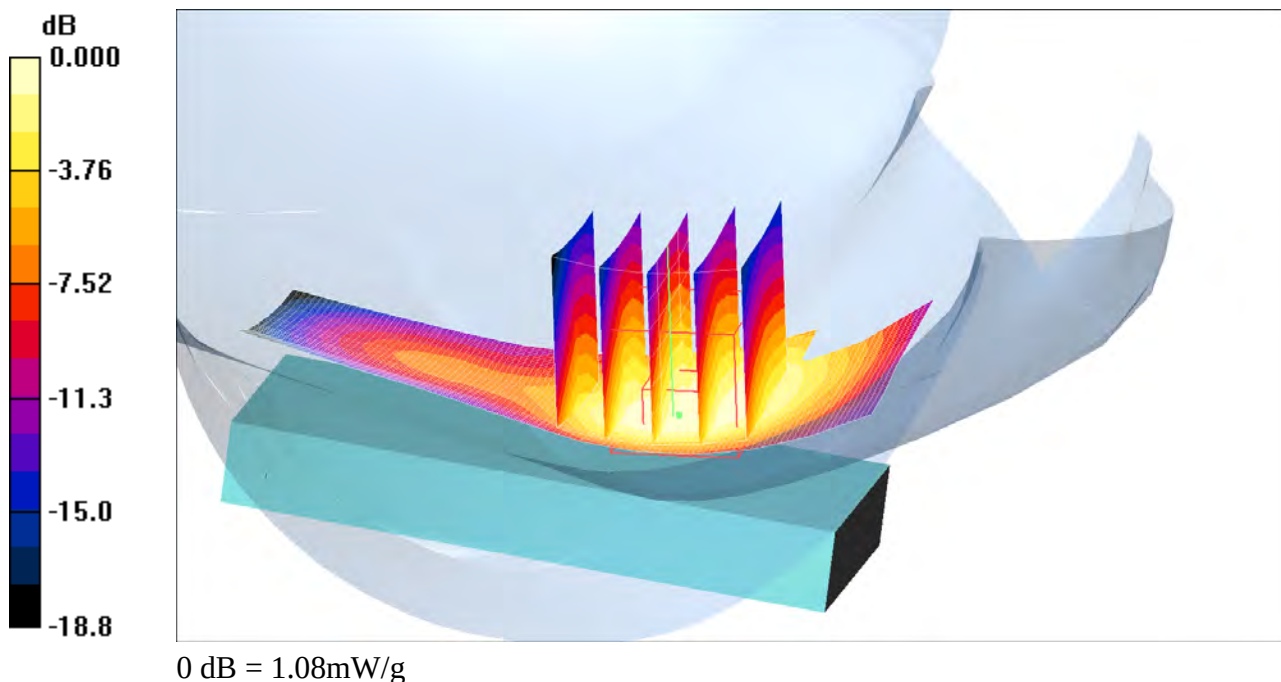
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.43 \text{ mho/m}$; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

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

Touch position - Middle/Area Scan (51x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 1.13 mW/g **Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 6.17 V/m ; Power Drift = 0.193 dB Peak SAR (extrapolated) = 1.43 W/kg **SAR(1 g) = 0.995 mW/g ; SAR(10 g) = 0.603 mW/g** Maximum value of SAR (measured) = 1.08 mW/g 

Date/Time: 8/20/2009 10:51:00 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kiki-LeftHandSide-GSM850-Tilt-Middle**DUT: Kiki; Type: DUT; Serial: #16102**

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

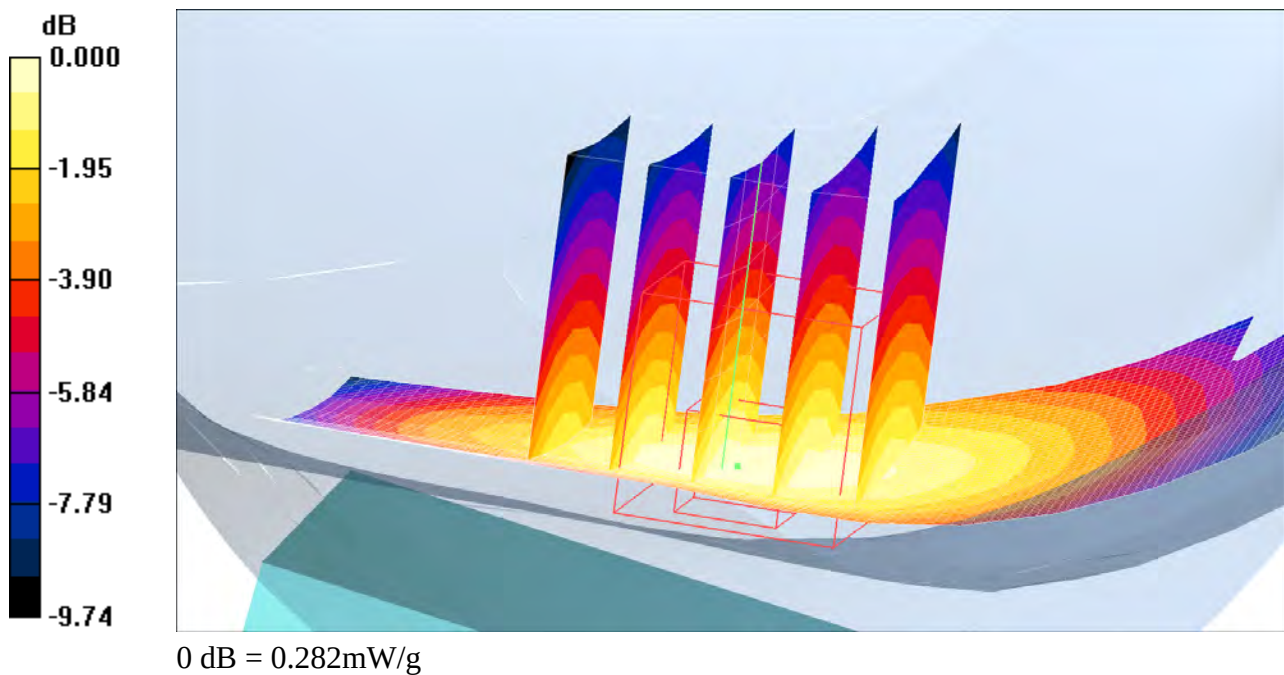
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

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 (51x111x1):** Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (interpolated) = 0.280 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 10.9 V/m ; Power Drift = -0.081 dB
Peak SAR (extrapolated) = 0.327 W/kg
SAR(1 g) = 0.263 mW/g ; SAR(10 g) = 0.192 mW/g
Maximum value of SAR (measured) = 0.282 mW/g



Date/Time: 8/20/2009 10:36:43 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kiki-LeftHandSide-GSM850-Touch_Middle**DUT: Kiki; Type: DUT; Serial: #16102**

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

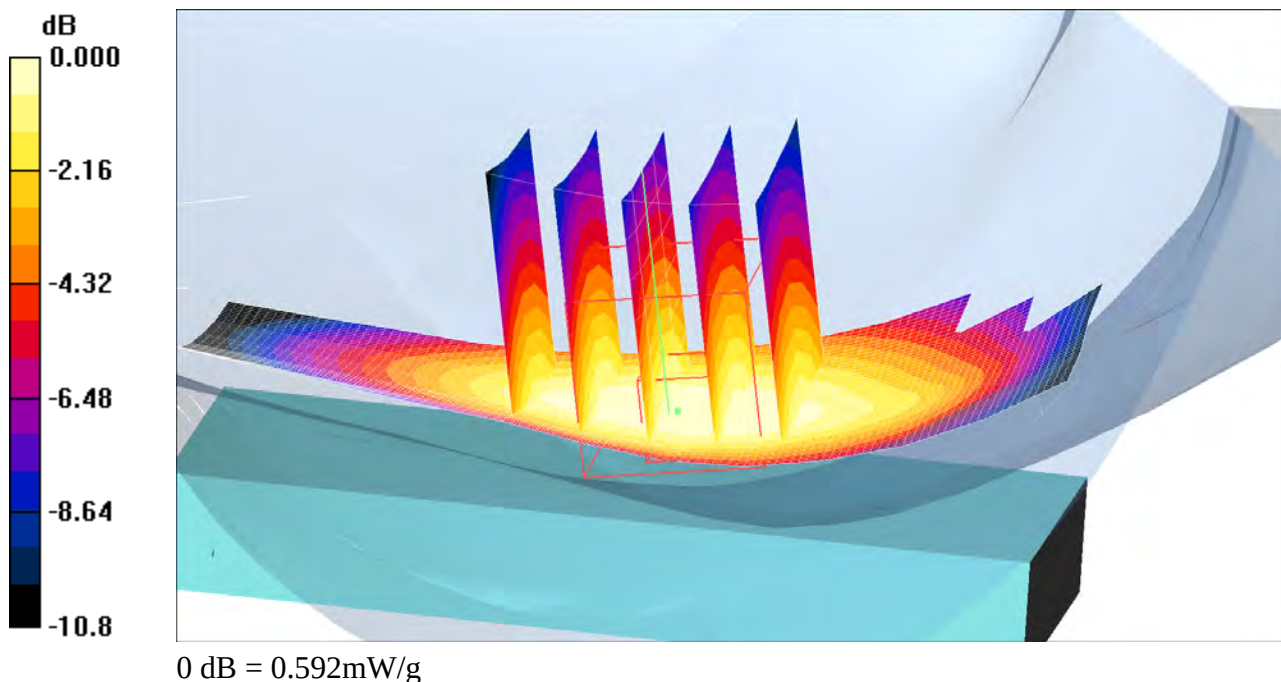
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

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 (51x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.603 mW/g **Touch position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.56 V/m ; Power Drift = -0.025 dB Peak SAR (extrapolated) = 0.697 W/kg **SAR(1 g) = 0.562 mW/g ; SAR(10 g) = 0.404 mW/g** Maximum value of SAR (measured) = 0.592 mW/g 

Date/Time: 9/4/2009 1:26:19 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

kiki-RightHandSide-Bluetooth-Tilt-Middle**DUT: Kiki; Type:DUT; Serial:#16104**

Communication System: Bluetooth; Frequency: 2441 MHz;Duty Cycle: 1:1

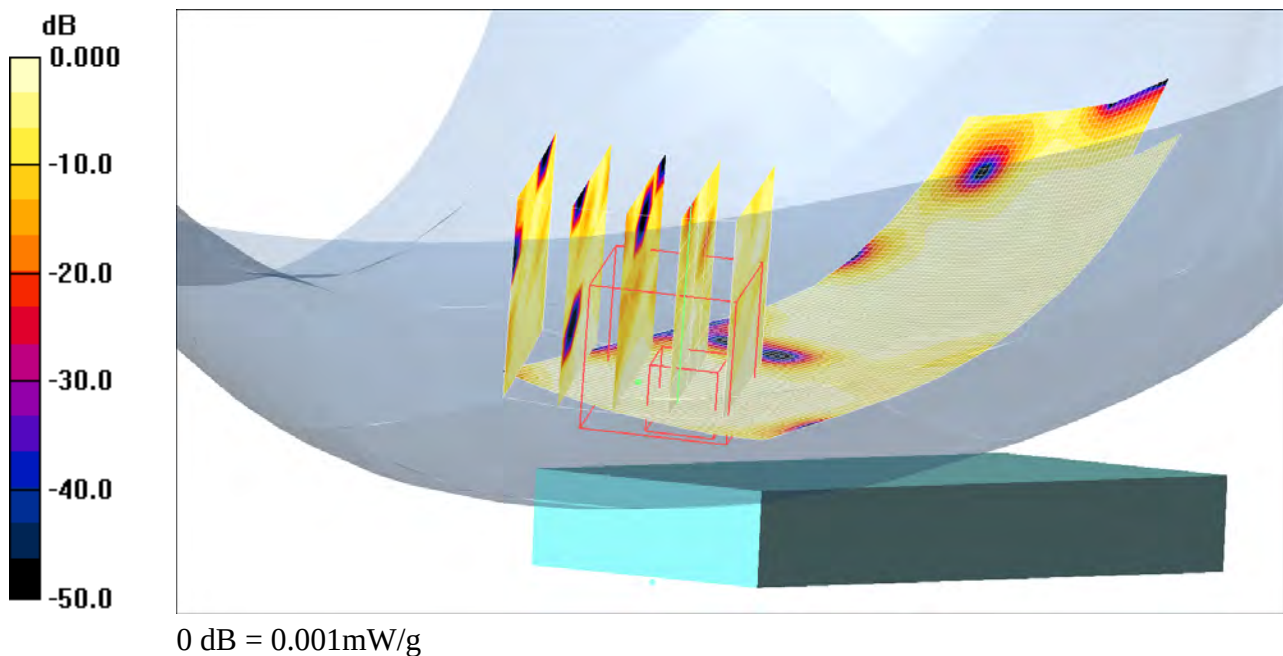
Medium parameters used: $f = 2441$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.4$; $\rho = 1000$ kg/m³

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
- Tilt position - Middle/Area Scan (51x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.002 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.684 V/m; Power Drift = 0.089 dB
Peak SAR (extrapolated) = 0.002 W/kg
SAR(1 g) = 0.00114 mW/g; SAR(10 g) = 0.000519 mW/g
Maximum value of SAR (measured) = 0.001 mW/g



Date/Time: 9/4/2009 1:48:11 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

kiki-RightHandSide-Bluetooth-Touch-High**DUT: Kiki; Type:DUT; Serial:#16104**

Communication System: Bluetooth; Frequency: 2480 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.4$; $\rho = 1000$ kg/m³

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 - High/Area Scan (51x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.015 mW/g

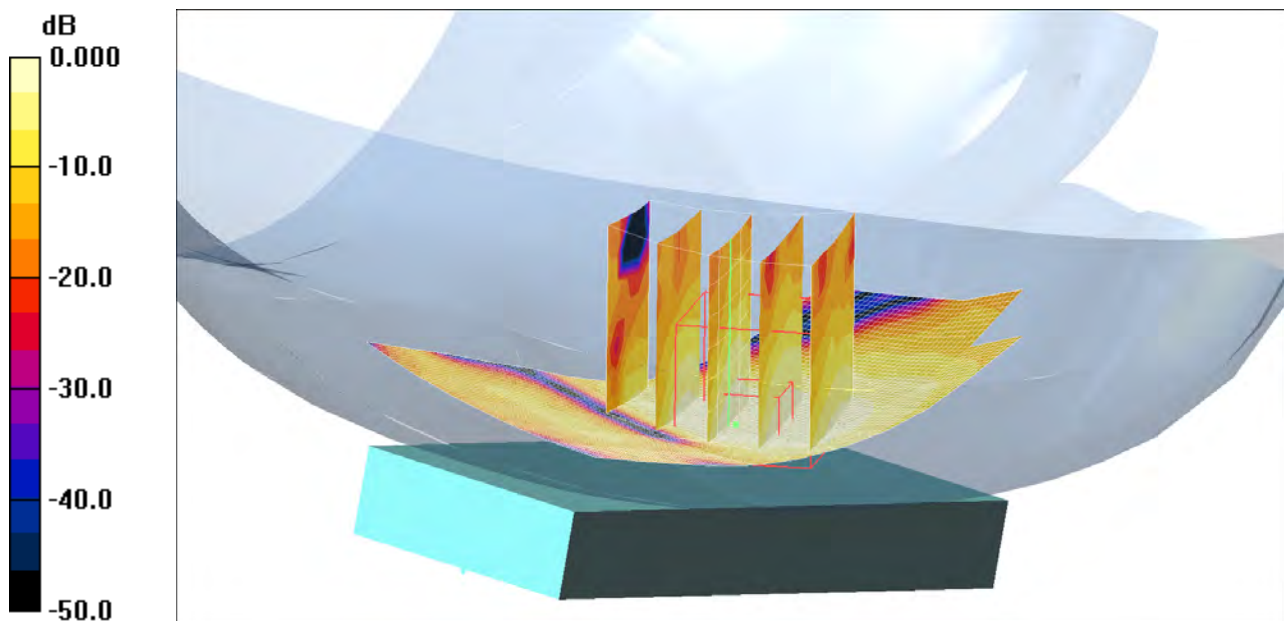
Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.595 V/m; Power Drift = 1.34 dB

Peak SAR (extrapolated) = 0.027 W/kg

SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00644 mW/g

Maximum value of SAR (measured) = 0.013 mW/g



0 dB = 0.013mW/g

Date/Time: 9/2/2009 1:56:17 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kiki-RightHandSide-GSM1900-High-Touch**DUT: Kiki; Type:DUT; Serial:#16102**

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

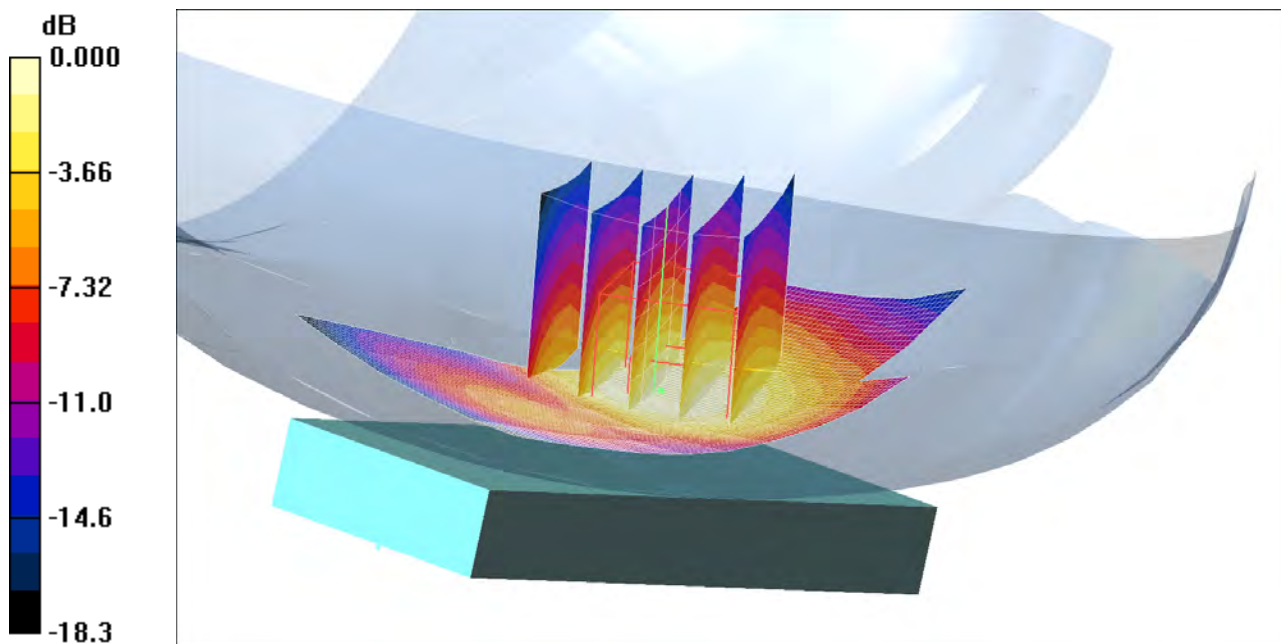
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.6$; $\rho = 1000 \text{ kg/m}^3$

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 - High -/Area Scan (51x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 1.50 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 = 8.52 V/m ; Power Drift = -0.027 dB Peak SAR (extrapolated) = 2.06 W/kg **SAR(1 g) = 1.34 mW/g ; SAR(10 g) = 0.801 mW/g** Maximum value of SAR (measured) = 1.47 mW/g 0 dB = 1.47 mW/g

Date/Time: 9/2/2009 1:25:51 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kiki-RightHandSide-GSM1900-Tilt-Middle**DUT: Kiki; Type: DUT; Serial:#16102**

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

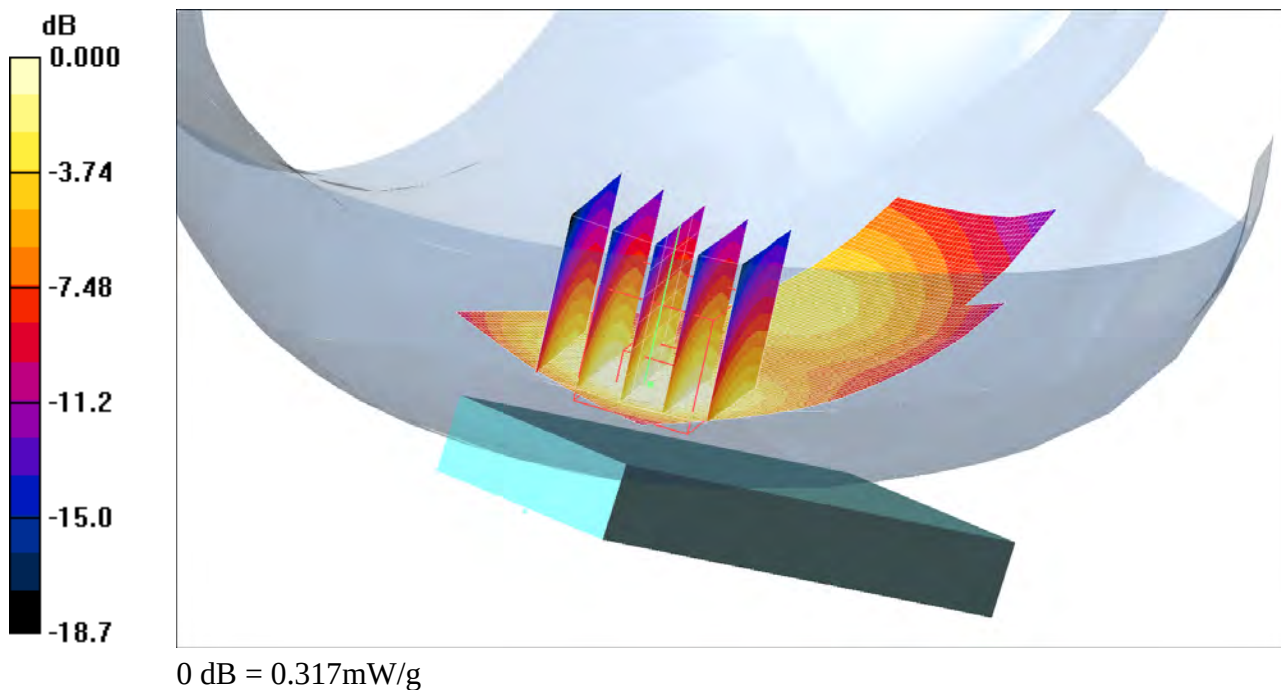
Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³

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 (51x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.320 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.6 V/m; Power Drift = -0.030 dB
Peak SAR (extrapolated) = 0.453 W/kg
SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.173 mW/g
Maximum value of SAR (measured) = 0.317 mW/g



Date/Time: 8/20/2009 1:38:07 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kiki-RightHandSide-GSM850-Tilt-Middle**DUT: Kiki; Type: DUT; Serial: #16102**

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

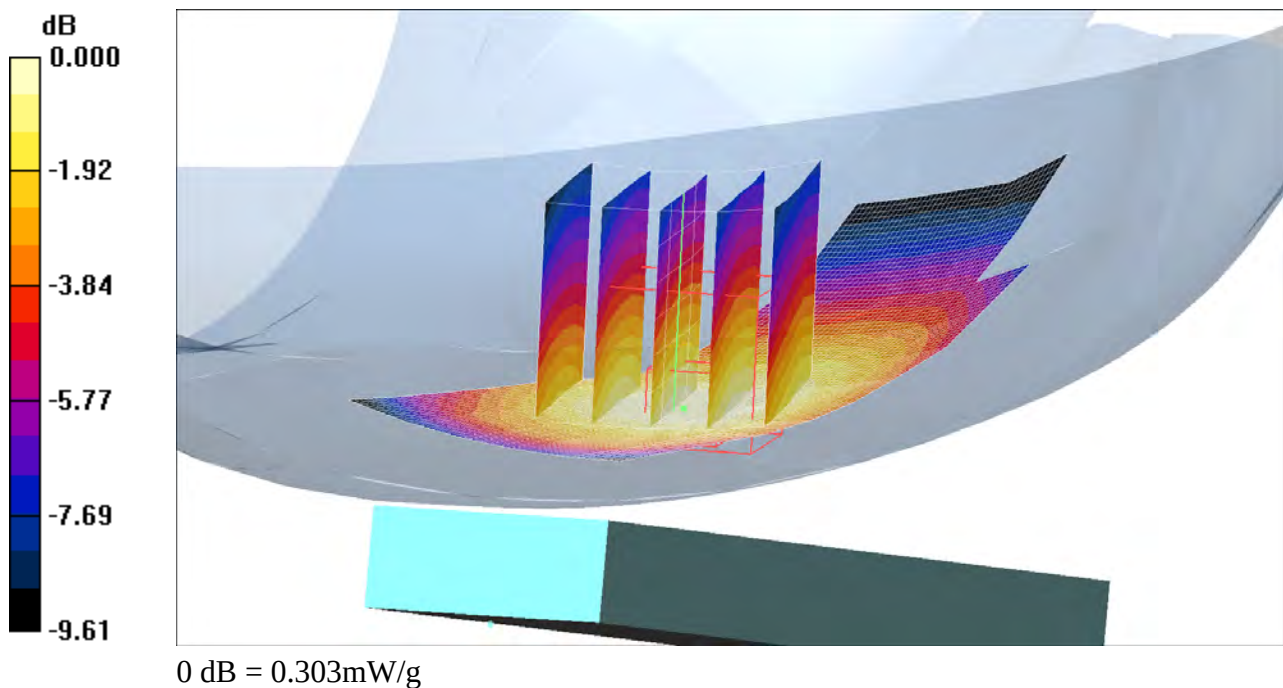
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

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 (51x111x1):** Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (interpolated) = 0.306 mW/g
- Tilt position - Middle/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.1 V/m ; Power Drift = -0.102 dB
Peak SAR (extrapolated) = 0.355 W/kg
SAR(1 g) = 0.285 mW/g ; SAR(10 g) = 0.206 mW/g
Maximum value of SAR (measured) = 0.303 mW/g



Date/Time: 8/20/2009 2:57:40 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Kiki-RightHandSide-GSM850-Touch-High**DUT: Kiki; Type: DUT; Serial: #16102**

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

Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 41.5$; $\rho = 1000$ 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 - High -/Area Scan (51x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.690 mW/g

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

Reference Value = 10.3 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.809 W/kg

SAR(1 g) = 0.654 mW/g; SAR(10 g) = 0.461 mW/g

Maximum value of SAR (measured) = 0.696 mW/g

