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BA/SEMC/CVVAU Nathan Shaw

Approved

LD/SEMC/CCMVALEC Mats Hansson

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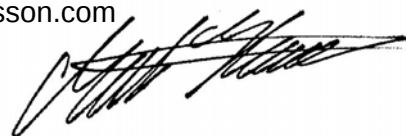
File

Report issued by Accredited SAR Laboratory**For**

FCC ID: PY7A3880063 (J20i)

Date of test: January 27th to March 22nd 2010**Laboratory:** Sony Ericsson SAR Test Laboratory
Sony Ericsson Mobile Communications AB
Maplewood, Chineham Business Park
Basingstoke, RG24 8YB,
England**Testing Engineer:** Nathan Shaw
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N. Shaw

Testing Approval: Mats Hansson
Mats.Hansson@sonyericsson.com
+46 10 80 23357**Statement of Compliance**

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

Sony Ericsson Type AAD-3880063-BV; FCC ID PY7A3880063; IC 4170B-A3880063

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: PY7A3880063 (J20i) 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 China
Address:	3/F, Building A, Wang Jing High-Tech Park, Beijing, China
Contact Name:	Cai Xiaochuan

3 Device Under Test

3.1 Antenna Description

Type	Internal antenna	
Location	Bottom of phone	
Main and BT antennas distance	58 mm	
Dimensions	Max length	18 mm
	Max width	47 mm
Configuration	Monopole	

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3.2 Device Description

Device model	AAD-3880063-BV					
Market name	J20i					
Serial number (EUT #)	BX901755RM (#17385) BX901721W5 (#17390) BX901721PQ (#17388) - WLAN					
Mode	GSM 850 (#17390)			GSM 1900 (#17385)		
Crest factor	8.3			8.3		
Multiple access scheme	TDMA			TDMA		
Channel No.	128	190	251	512	661	885
Measured Power Level [dBm]¹	32.8	32.9	32.8	30.3	30.3	30.5
Product Maximum power Level [dBm]¹	33.0	33.0	33.0	30.5	30.5	30.5
Data mode	GPRS			GPRS		
Crest factor	4.15			4.15		
Measured Power Level [dBm]¹	29.9	29.9	30.0	27.4	27.5	27.5
Product Maximum power Level [dBm]¹	30.0	30.0	30.0	27.5	27.5	27.5
Data mode	EDGE			EDGE		
Crest factor	4.15			4.15		
Measured Power Level [dBm]¹	27.8	28.0	27.8	27.0	27.0	27.0
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 1, 6.99 dBm
Prototype or production unit	Preproduction
Hardware Version	AP1.1
Software version	R7BA037 (#17385 & #17390) R6GC072 (#17388)
Device category	Portable
RF exposure environment	General population / uncontrolled

¹ These values are supplied by the customer

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WLAN Output Power					
Mode	Max Average Output Power ¹ (dBm)	Factory Tolerance ¹ (dB)	EUT (#17388) Measured Peak Power (dBm) ¹		
			Ch 1	Ch 6	Ch 11
802.11b 1Mbit/sec	17.5	1	19.9	19.8	20.2
802.11b 2Mbit/sec			20.0	20.0	20.0
802.11b 5.5Mbit/sec			20.2	19.9	20.1
802.11b 11Mbit/sec			20.1	20.0	20.2
802.11g 6Mbit/sec	13.5	1	22.3	22.3	22.0
802.11g 9Mbit/sec			21.7	21.4	22.1
802.11g 12Mbit/sec			21.6	21.8	22.2
802.11g 18Mbit/sec			22.2	21.8	22.0
802.11g 24Mbit/sec			22.4	22.3	22.0
802.11g 36Mbit/sec			22.3	22.1	22.3
802.11g 48Mbit/sec			21.8	22.6	22.5
802.11g 54Mbit/sec			22.3	22.4	22.3

Notes:

The power values in the SAR report are tested by power meter - Agilent N1912A and they are conducted values.

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	2010-11
E-field probe ET3DV6	1610	2010-11
Dipole Validation Kit, D835V2	442	2010-12
Dipole Validation Kit, D1900V2	539	2010-12
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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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, 2010-01-27	40.78	0.87	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2010-02-05	52.52	0.96	1.00
		Recommended	55.20	0.97	1.00
1900	Head	Measured, 2010-01-29	38.16	1.46	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2010-02-15	50.66	1.54	1.00
		Recommended	53.30	1.52	1.00
2450	Head	Measured, 2010-02-09	37.55	1.89	1.00
		Recommended	39.20	1.80	1.00
2450	Body	Measured, 2010-02-11	50.10	1.97	1.00
		Recommended	52.70	1.95	1.00

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6 System accuracy verification

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

f [MHz]	Tissue type	Measured / Reference	SAR [W/kg] 1g	Dielectric Parameters		Density	Liquid T[°C]
				ϵ_r	σ [S/m]	ρ [g/cm ³]	
835	Head	Measured, 2010-01-27	9.32	40.78	0.87	1.00	23.3
		Recommended	9.34	41.50	0.90	1.00	22.0
835	Body	Measured, 2010-02-05	10.16	52.52	0.96	1.00	23.0
		Recommended	9.85	55.20	0.97	1.00	22.0
1900	Head	Measured, 2010-01-29	36.40	38.16	1.46	1.00	22.9
		Recommended	38.60	40.00	1.40	1.00	22.0
1900	Body	Measured, 2010-02-15	37.60	50.66	1.54	1.00	23.4
		Recommended	41.30	53.30	1.52	1.00	22.0
2450	Head	Measured, 2010-02-09	49.60	37.55	1.89	1.00	22.5
		Recommended	54.10	39.20	1.80	1.00	22.0
2450	Body	Measured, 2010-02-11	50.00	50.10	1.97	1.00	23.5
		Recommended	53.10	52.70	1.95	1.00	22.0

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7 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880063 (J20i) 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 on the right-hand side and the left-hand side of the phantom, in open and closed configurations, in two phone positions, cheek (touch) and tilt (cheek + 15°). The DUT was tested at the lowest, middle and highest frequencies in the transmission band. The measured 1-gram averaged SAR values of the DUT towards the head are provided in Table 1.

For body measurement the DUT was tested with the back (antenna) and front(display) towards the phantom flat section with 15 mm distance in both speech and data mode. For all modes, the device was tested at the lowest, middle and highest frequencies in the transmission band. For portable hands free (PHF) usage the Sony Ericsson head set HPM-61 was connected to the DUT. The measured 1-gram averaged SAR values of the DUT towards the body are provided in Table 2.

Band	Channel	Measured output power ¹ [dBm]	Position	Liquid T [°C]	Measured SAR [W/Kg]	
					Left-hand 1g mass	Right-hand 1g mass
GSM 850	128	32.8	Cheek ³	23.3	0.74	0.68
			Tilt ³	23.3	-	-
	190	32.9	Cheek ²	23.3	0.60	0.56
			Tilt ²	23.3	0.31	0.33
			Cheek ³	23.3	0.85	0.76
			Tilt ³	23.3	0.60	0.63
	251	32.8	Cheek ³	23.3	0.86	0.75
			Tilt ³	23.3	-	-
GSM1900	512	30.3	Cheek ³	22.9	0.52	0.51
			Tilt ³	22.9	-	-
	661	30.3	Cheek ²	22.9	0.39	0.30
			Tilt ²	22.9	0.18	0.25
			Cheek ³	22.9	0.51	0.52
			Tilt ³	22.9	0.23	0.29
	810	30.5	Cheek ³	22.9	0.57	0.58
			Tilt ³	22.9	-	-
WLAN	1	17.6	Cheek ³	22.5	0.16	0.23
			Tilt ³	22.5	-	-
	6	17.5	Cheek ²	22.5	0.10	0.13
			Tilt ²	22.5	0.07	0.07
			Cheek ³	22.5	0.16	0.23
			Tilt ³	22.5	0.15	0.16
	11	17.6	Cheek ³	22.5	0.16	0.23
			Tilt ³	22.5	-	-

Table 1: SAR measurement result for Sony Ericsson PY7A3880063 telephone at highest possible output power. Measured towards the head.

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

² Open Configuration.

³ Closed Configuration.

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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	29.9	Back / GPRS	23.0	0.79
		32.8	Back / Speech	23.0	0.86
		32.8	Back / PHF	23.0	0.65
	190	29.9	Back / GPRS	23.0	0.96
		32.9	Back / Speech	23.0	0.83
		30.0	Back / GPRS	23.0	1.02
	251	32.8	Back / Speech	23.0	0.82
		30.0	Front / GPRS	23.0	0.69
		27.8	Back / Edge	23.0	0.24
		27.4	Back / GPRS	23.4	0.38
GSM 1900	512	30.3	Back / Speech	23.4	0.40
		30.3	Back / PHF	23.4	0.41
		27.5	Back / GPRS	23.4	0.39
	661	30.3	Back / Speech	23.4	0.39
		30.3	Back / PHF	23.4	0.40
		27.5	Back / GPRS	23.4	0.40
	810	30.5	Back / Speech	23.4	0.42
		30.5	Back / PHF	23.4	0.45
		30.5	Front / PHF	23.4	0.20
		27.0	Back / Edge	23.4	0.18
		17.6	Back	23.5	0.11
WLAN	6	17.5	Back	23.5	0.13
	11	17.6	Back	23.5	0.13
	11	17.6	Front	23.5	0.06

Table 2: SAR measurement result for Sony Ericsson PY7A3880063 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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9 References

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

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Appendix

9.1 Photographs of the device under test



Front & Back Open



Front & Back Closed



Sides Open



Sides Closed



Top & Bottom



Back

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9.2 Device position at SAM Twin Phantom



DUT position towards the head: Cheek (touch) position, Slider Closed



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



DUT position towards the head: Tilt (touch + 15°) position, Slider Closed

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



DUT position towards the body, rear and front, and 15 mm distance

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9.3 Attachments

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

Date/Time: 1/27/2010 8:50:21 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-27-01-10**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

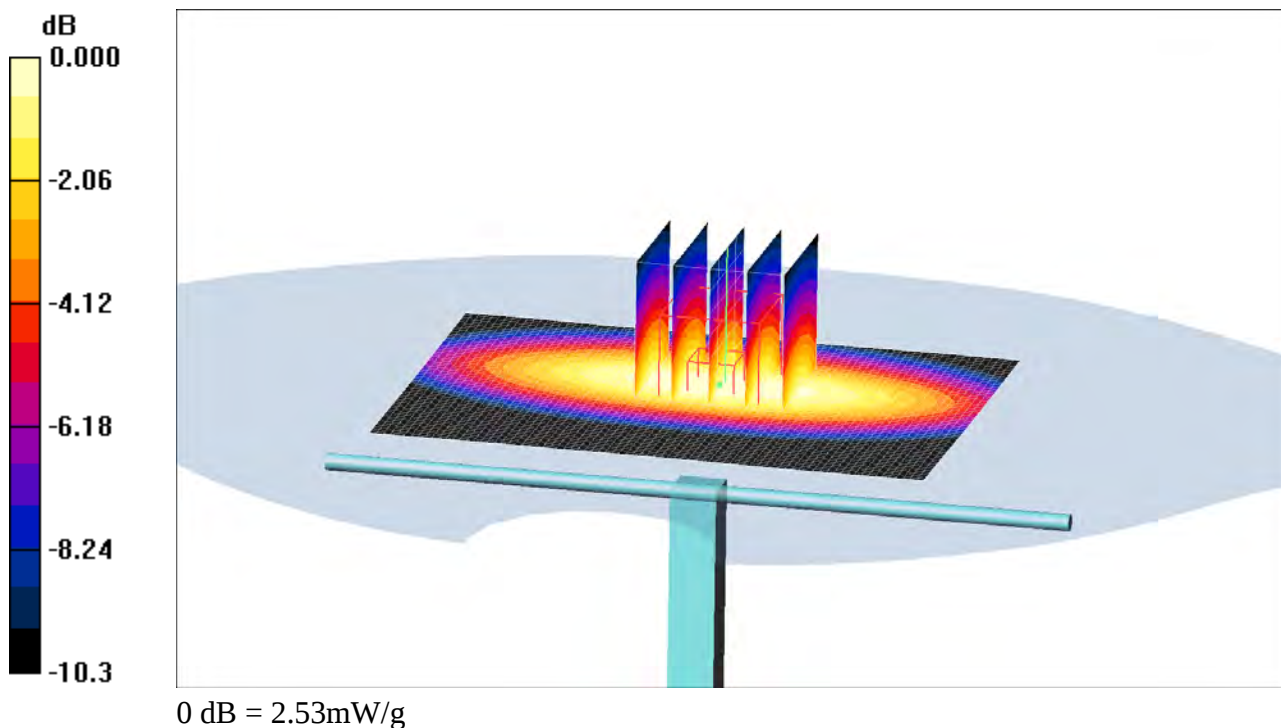
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 40.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 2.52 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 54.8 V/m; Power Drift = 0.008 dB
Peak SAR (extrapolated) = 3.12 W/kg
SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.55 mW/g
Maximum value of SAR (measured) = 2.53 mW/g



Date/Time: 2/5/2010 9:31:46 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-Body-05-02-10**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

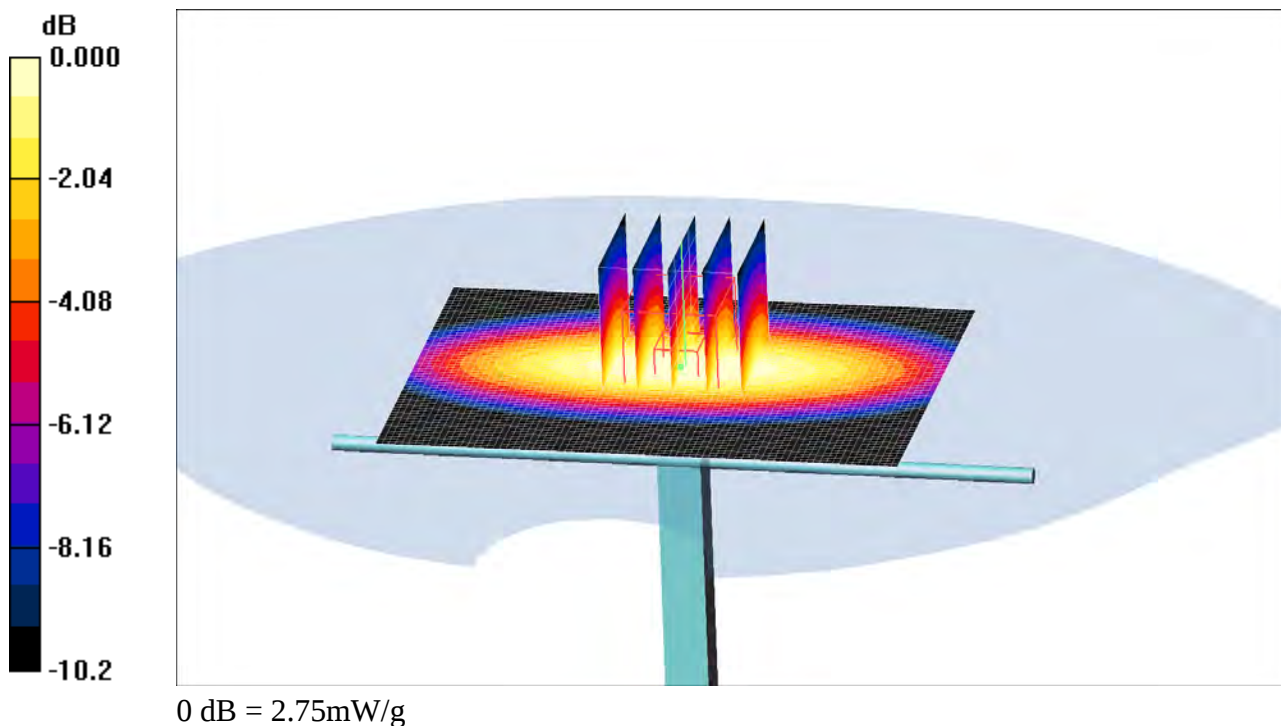
Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (interpolated) = 2.75 mW/g
d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 56.5 V/m ; Power Drift = -0.034 dB
Peak SAR (extrapolated) = 3.47 W/kg
SAR(1 g) = 2.54 mW/g ; SAR(10 g) = 1.69 mW/g
Maximum value of SAR (measured) = 2.75 mW/g



Date/Time: 1/29/2010 9:23:19 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-29-01-10**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

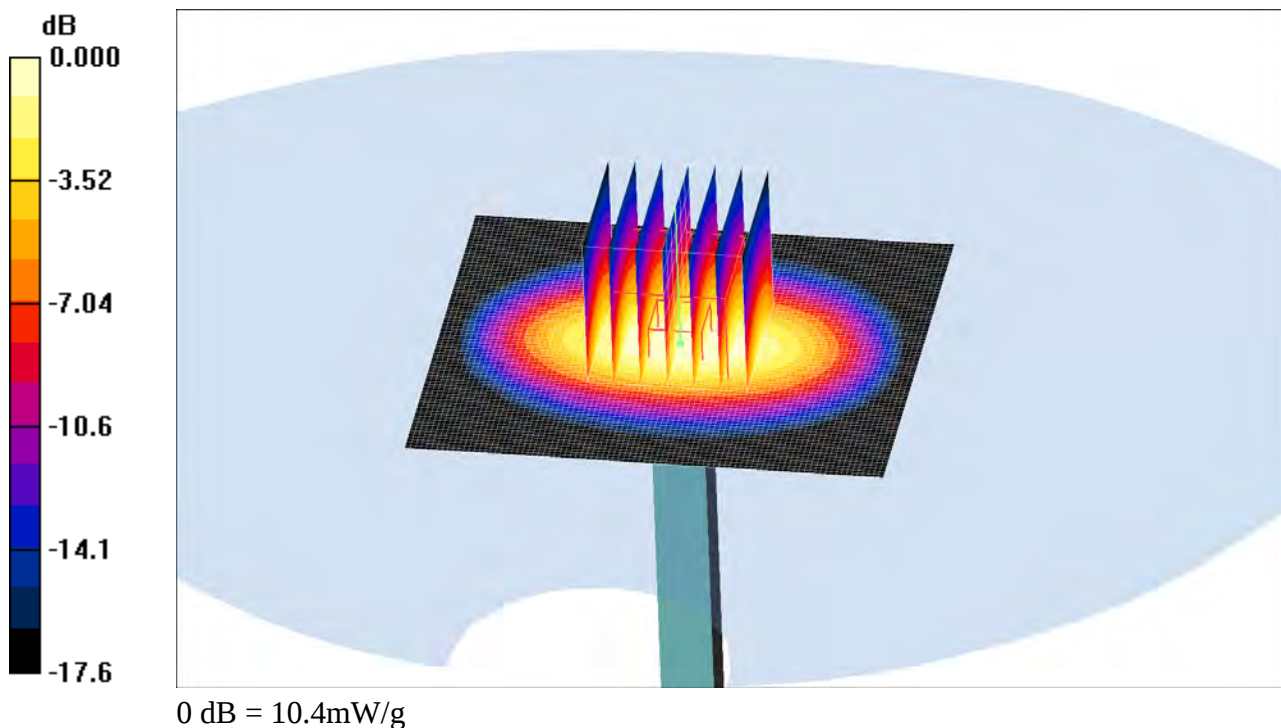
Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.46 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 10.4 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 90.1 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 15.4 W/kg
SAR(1 g) = 9.1 mW/g; SAR(10 g) = 4.79 mW/g
Maximum value of SAR (measured) = 10.4 mW/g



Date/Time: 2/15/2010 9:43:58 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-Body-15-02-10**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

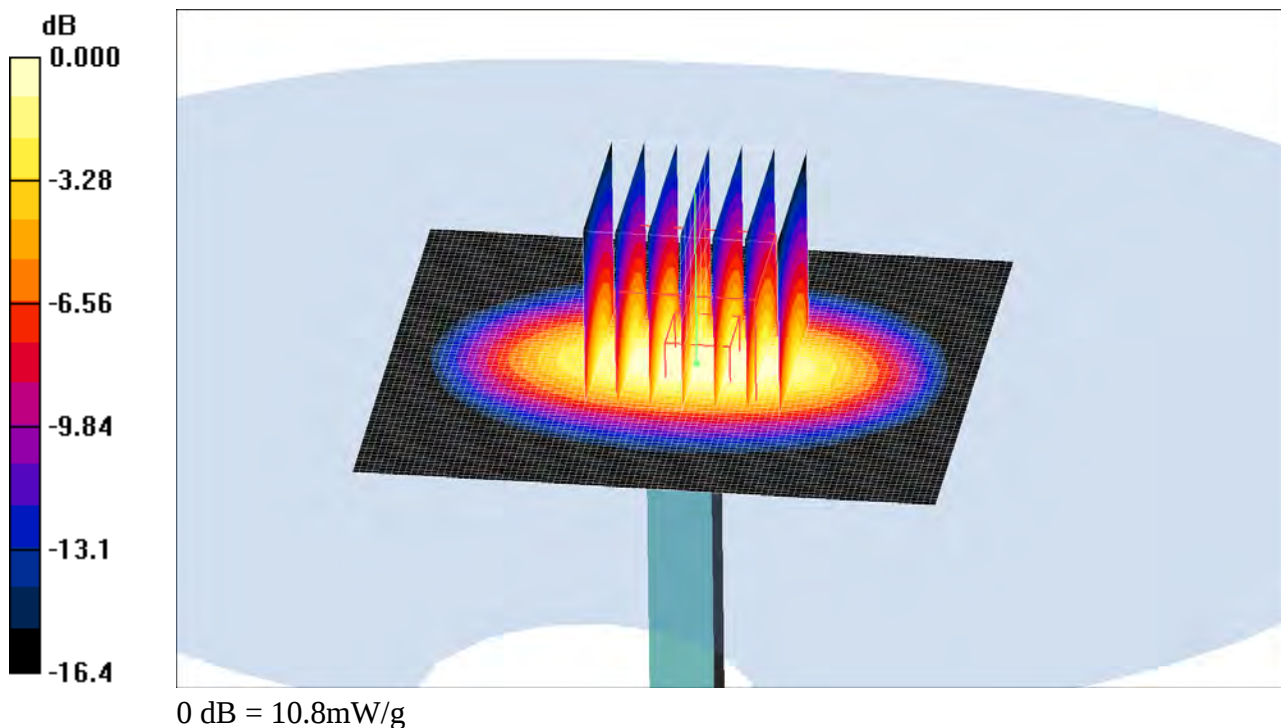
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: 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 = 91.7 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 14.4 W/kg
SAR(1 g) = 9.4 mW/g; SAR(10 g) = 5.1 mW/g
Maximum value of SAR (measured) = 10.8 mW/g



Date/Time: 2/9/2010 3:33:45 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D2450-09-02-10**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

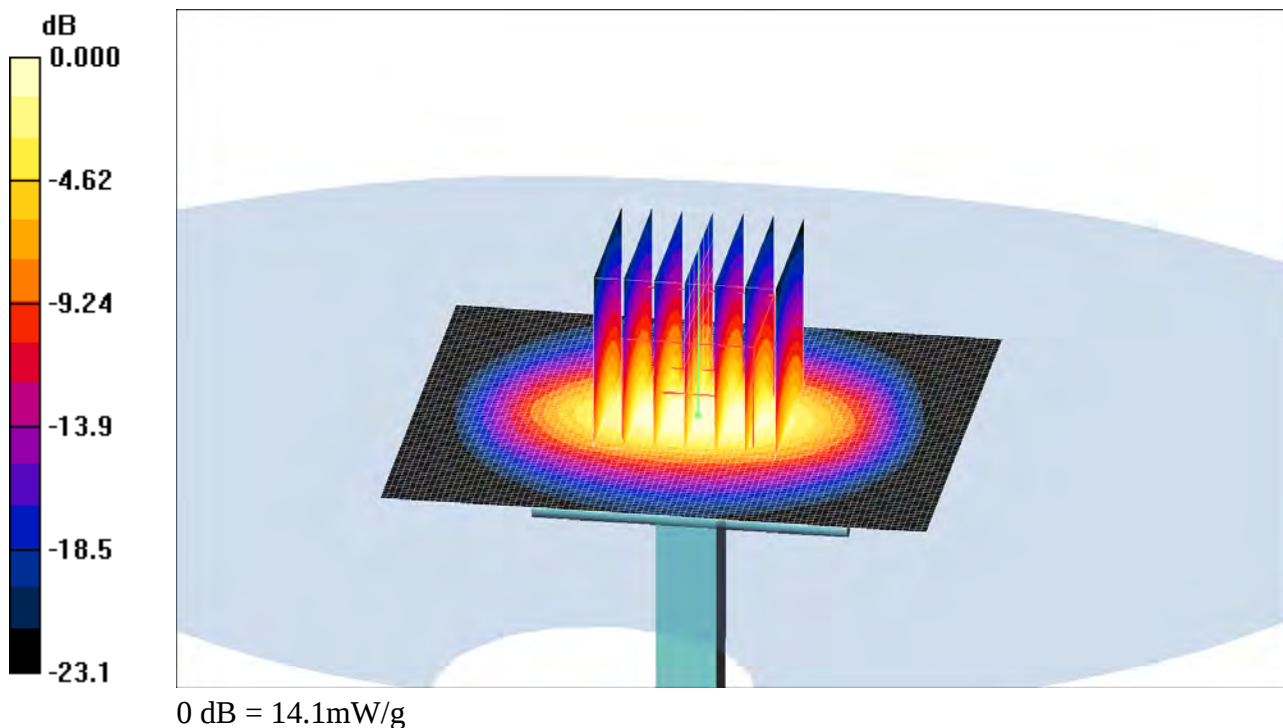
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 37.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/11/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 14.2 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 = -0.002 dB
Peak SAR (extrapolated) = 26.4 W/kg
SAR(1 g) = 12.4 mW/g; SAR(10 g) = 5.71 mW/g
Maximum value of SAR (measured) = 14.1 mW/g



Date/Time: 2/11/2010 11:16:00 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D2450-11-02-10**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

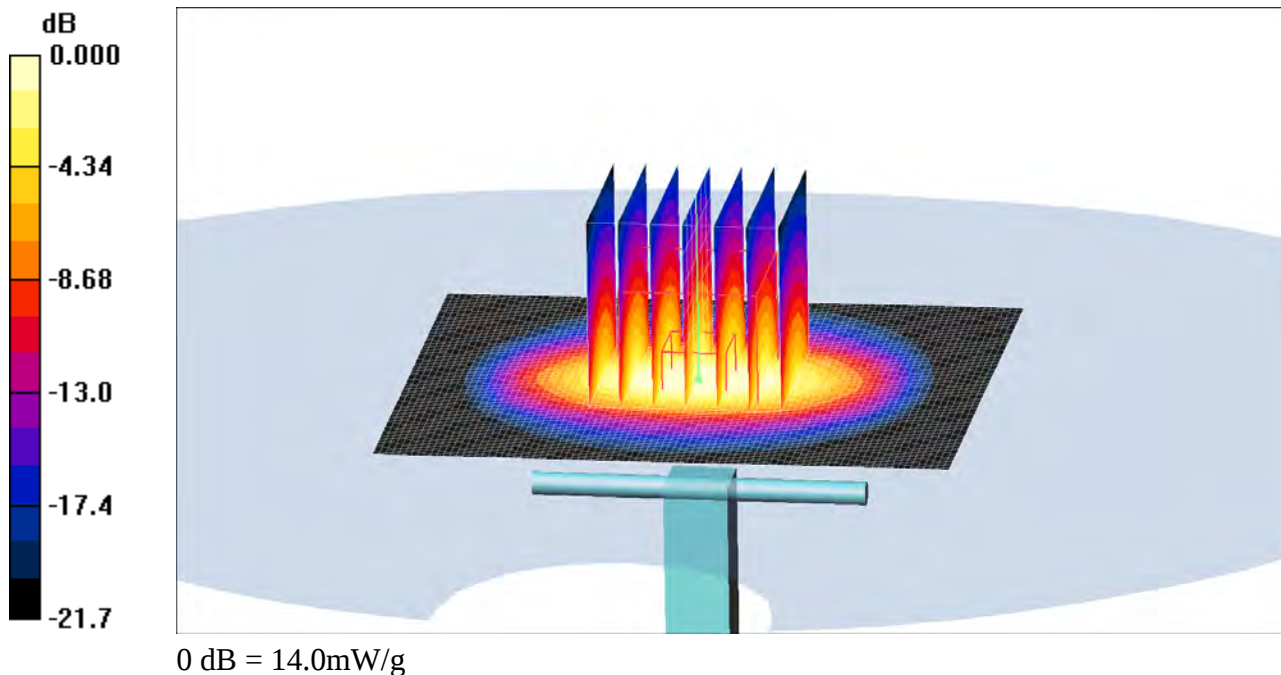
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.16, 4.16, 4.16); Calibrated: 11/11/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: 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) = 14.3 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 88.2 V/m; Power Drift = -0.058 dB
Peak SAR (extrapolated) = 28.7 W/kg
SAR(1 g) = 12.5 mW/g; SAR(10 g) = 5.7 mW/g
Maximum value of SAR (measured) = 14.0 mW/g



Date/Time: 1/27/2010 10:59:30 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-LeftHandSide-GSM850-Touch-High-Closed**DUT: Sunny; Type: DUT; Serial: #17390**

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

Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 40.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High - Slider Closed/Area Scan (61x111x1): Measurement grid:
 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.934 mW/g

Touch position - High - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

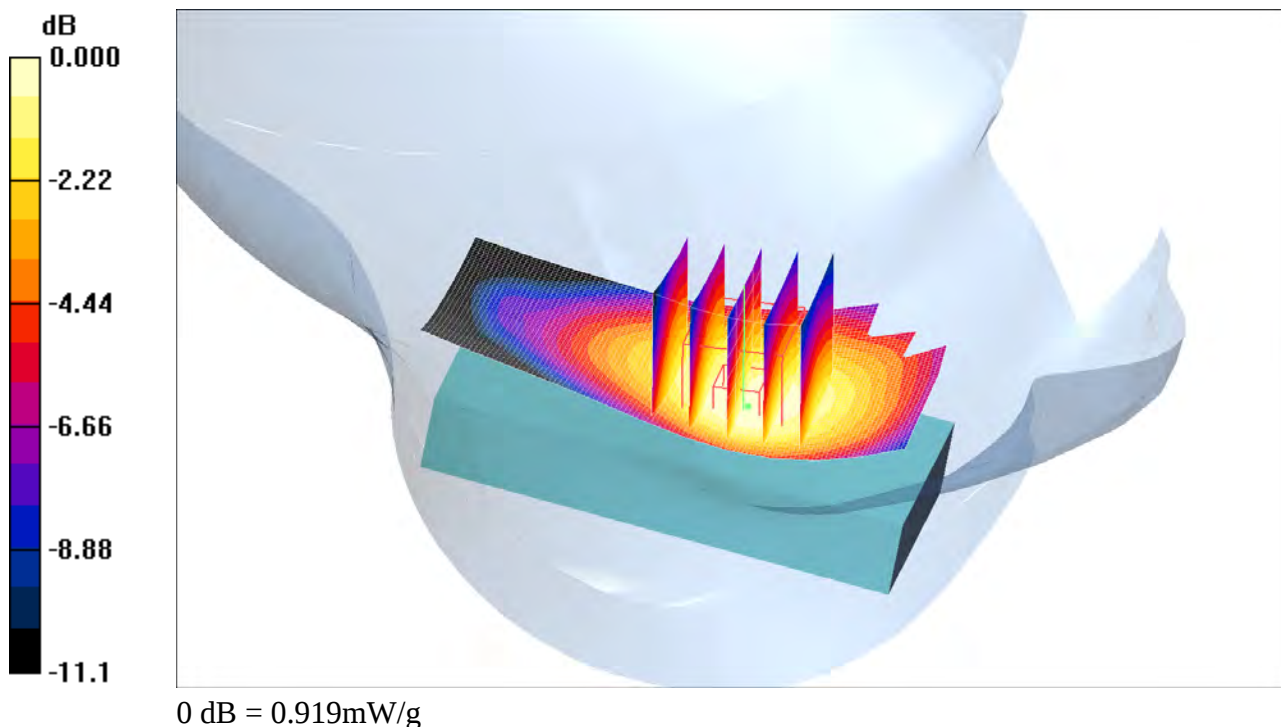
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.8 V/m ; Power Drift = 0.072 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.865 mW/g ; SAR(10 g) = 0.624 mW/g

Maximum value of SAR (measured) = 0.919 mW/g



Date/Time: 1/27/2010 10:22:24 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-LeftHandSide-GSM850-Tilt-Mid-Closed**DUT: Sunny; Type: DUT; Serial: #17390**

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

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 40.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - Middle - Slider Closed/Area Scan (61x111x1): Measurement grid:
 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.645 mW/g

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

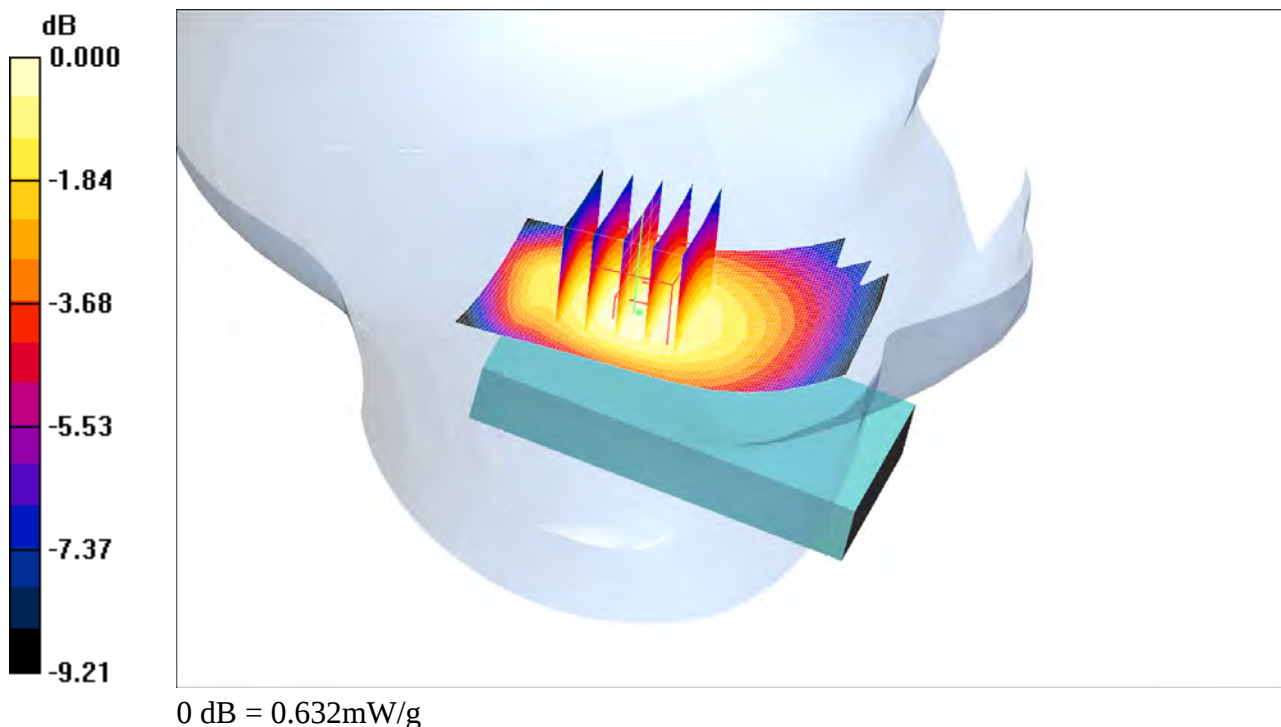
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.9 V/m ; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.671 W/kg

SAR(1 g) = 0.601 mW/g ; SAR(10 g) = 0.462 mW/g

Maximum value of SAR (measured) = 0.632 mW/g



Date/Time: 1/27/2010 1:11:29 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-RightHandSide-GSM850-Touch-Mid-Closed**DUT: Sunny; Type: DUT; Serial: #17390**

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

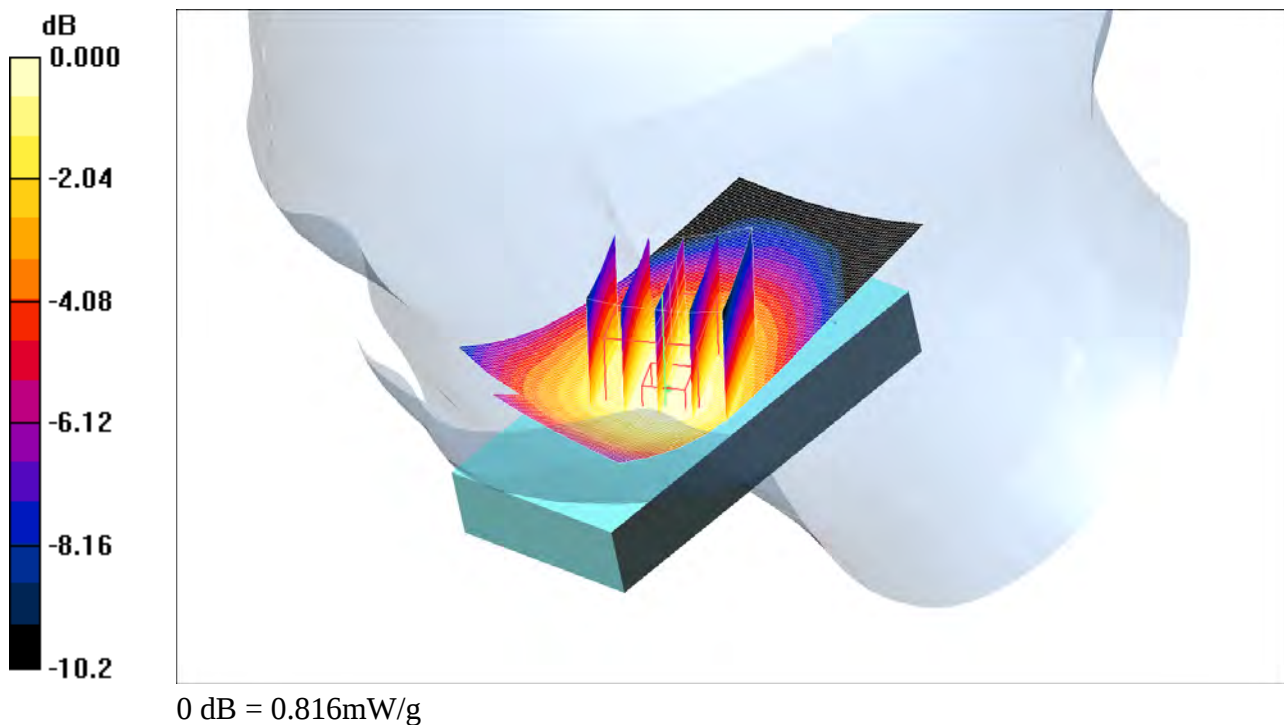
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 40.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Middle- Slider Closed/Area Scan (61x111x1):** Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
Maximum value of SAR (interpolated) = 0.803 mW/g
- Touch position - Middle- Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 11.6 V/m ; Power Drift = 0.001 dB
Peak SAR (extrapolated) = 0.988 W/kg
SAR(1 g) = 0.756 mW/g ; SAR(10 g) = 0.563 mW/g
Maximum value of SAR (measured) = 0.816 mW/g



Date/Time: 1/27/2010 1:27:07 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-RightHandSide-GSM850-Tilt-Mid-Closed**DUT: Sunny; Type: DUT; Serial: #17390**

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

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 40.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.41, 6.41, 6.41); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - Middle- Slider Closed/Area Scan (61x111x1): Measurement grid:
 $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (interpolated) = 0.658 mW/g

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

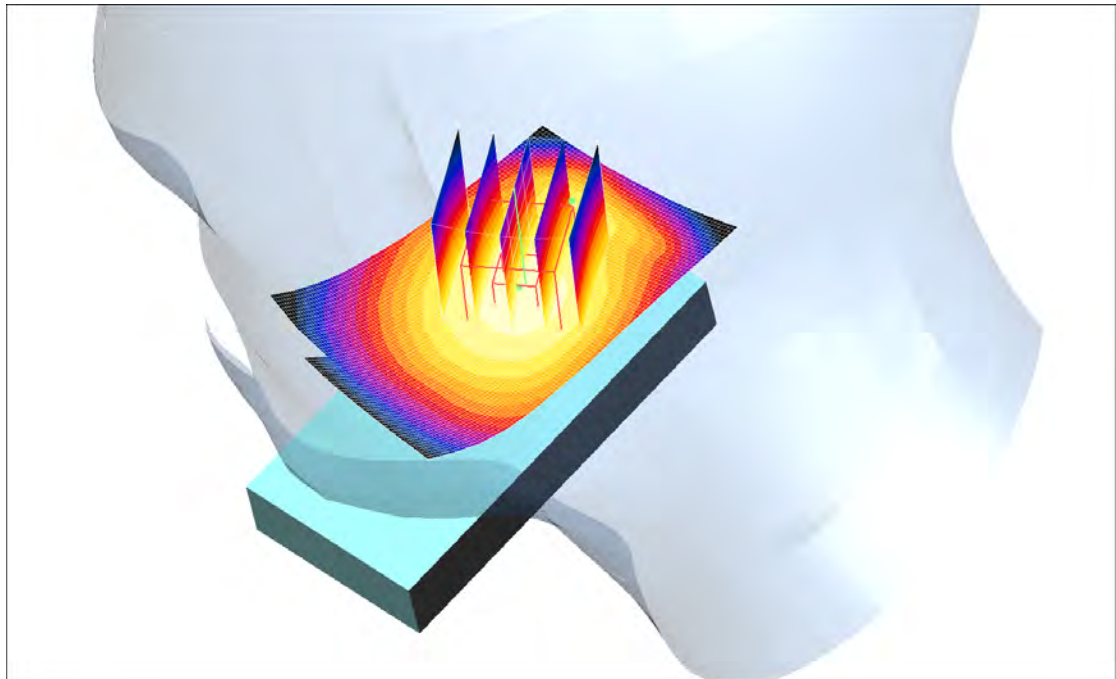
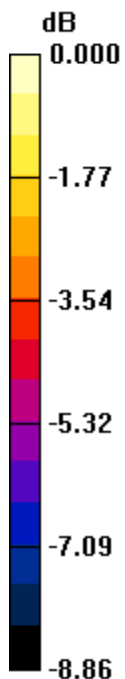
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.6 V/m ; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.691 W/kg

SAR(1 g) = 0.626 mW/g ; SAR(10 g) = 0.483 mW/g

Maximum value of SAR (measured) = 0.659 mW/g



0 dB = 0.659 mW/g

Date/Time: 2/5/2010 9:53:20 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-850-Speech-Low**DUT: Sunny; Type: DUT; Serial: #17390**

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

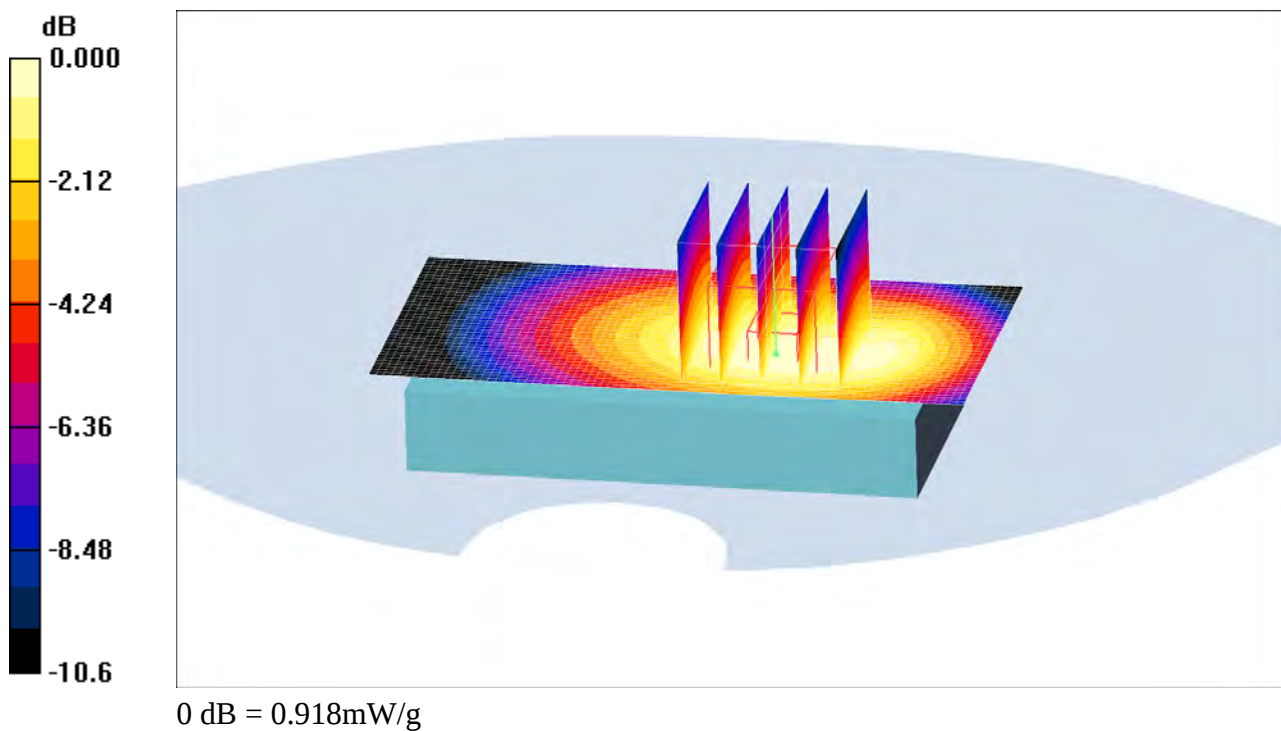
Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: 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) = 0.905 mW/g **Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 29.3 V/m ; Power Drift = -0.073 dB Peak SAR (extrapolated) = 1.11 W/kg **SAR(1 g) = 0.860 mW/g ; SAR(10 g) = 0.607 mW/g** Maximum value of SAR (measured) = 0.918 mW/g 

Date/Time: 2/5/2010 11:06:01 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-850-GPRS-Low**DUT: Sunny; Type: DUT; Serial: #17390**

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

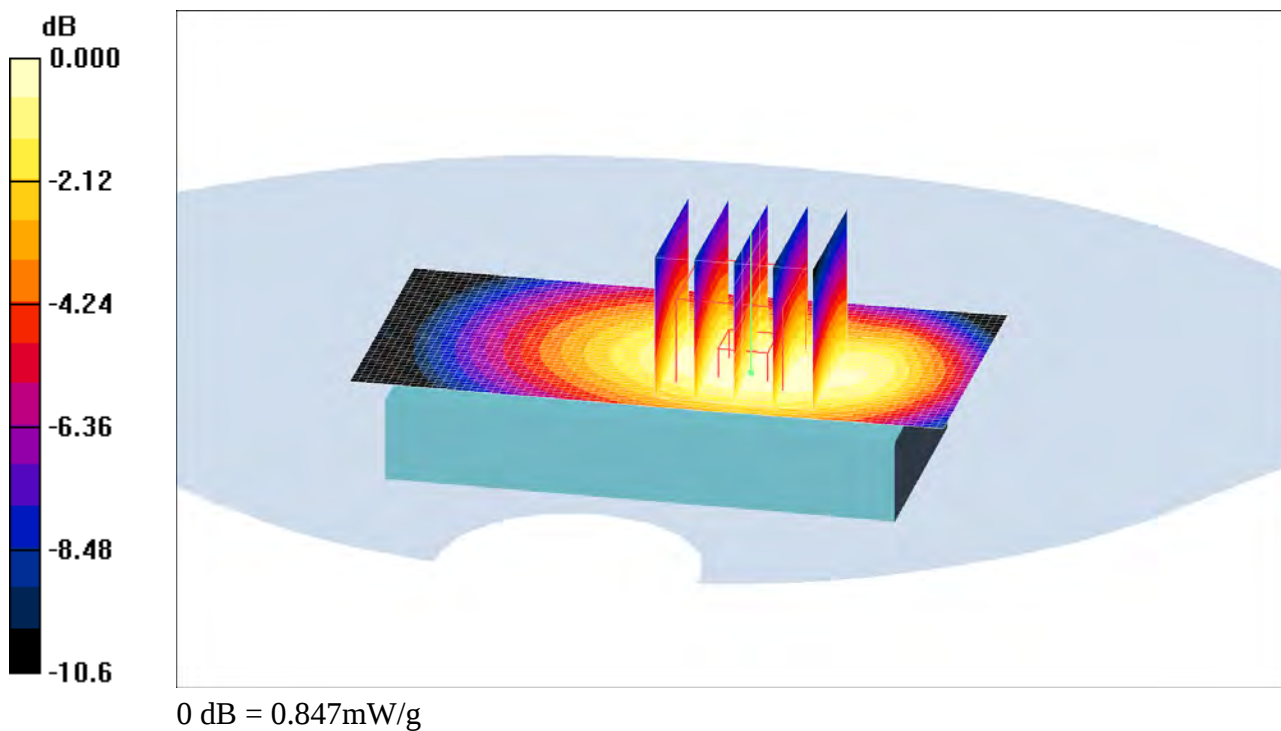
Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 52.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: 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) = 0.846 mW/g **Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 29.1 V/m ; Power Drift = -0.096 dB Peak SAR (extrapolated) = 1.02 W/kg **SAR(1 g) = 0.793 mW/g ; SAR(10 g) = 0.564 mW/g** Maximum value of SAR (measured) = 0.847 mW/g 

Date/Time: 2/5/2010 11:21:09 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-850-GPRS-Mid**DUT: Sunny; Type: DUT; Serial: #17390**

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

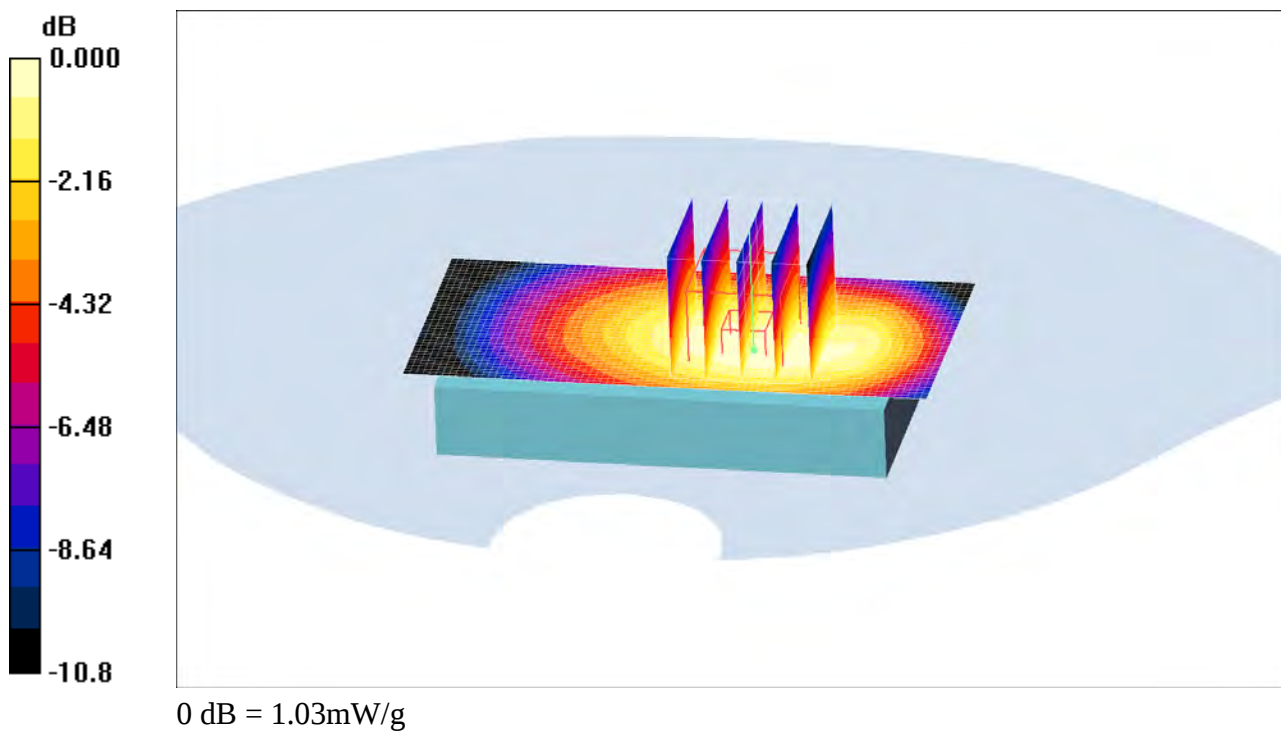
Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 52.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: 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) = 1.01 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 = 31.8 V/m ; Power Drift = -0.083 dB Peak SAR (extrapolated) = 1.24 W/kg **SAR(1 g) = 0.964 mW/g ; SAR(10 g) = 0.684 mW/g** Maximum value of SAR (measured) = 1.03 mW/g 

Date/Time: 2/5/2010 11:48:23 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-850-GPRS-High**DUT: Sunny; Type: DUT; Serial: #17390**

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

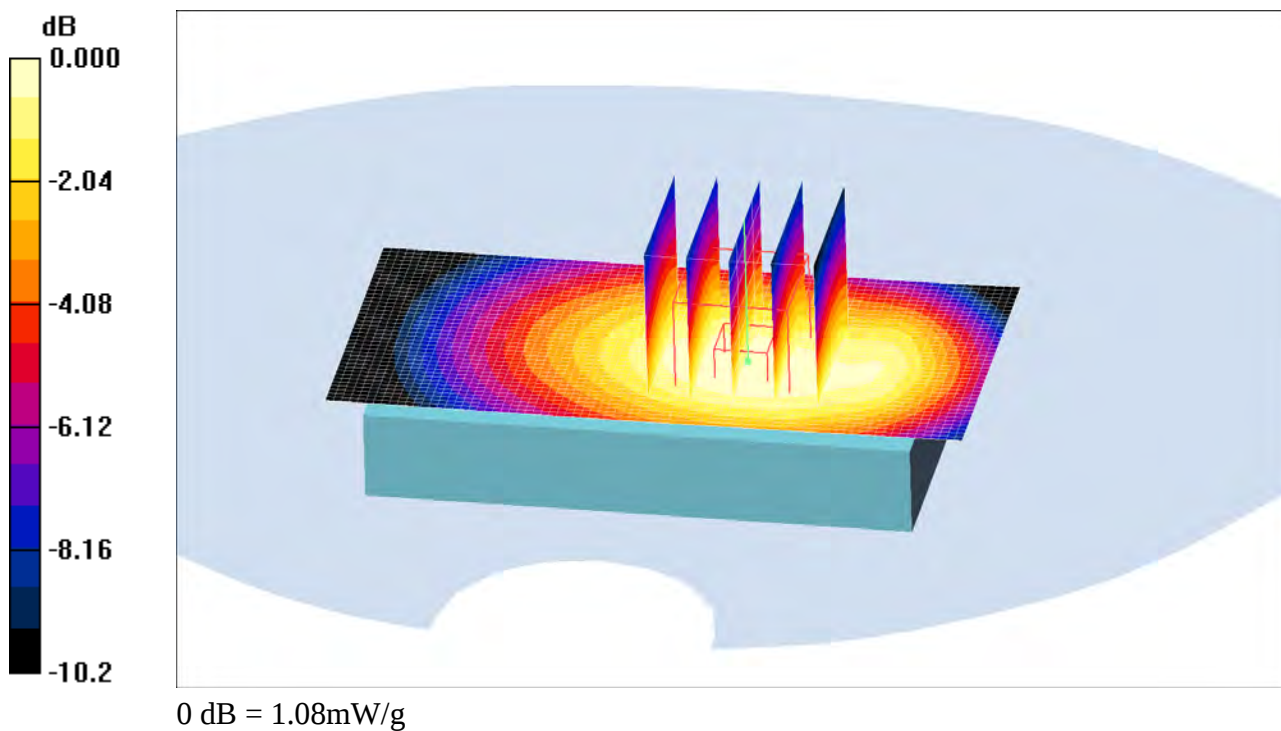
Medium parameters used: $f = 848.8 \text{ MHz}$; $\sigma = 0.98 \text{ mho/m}$; $\epsilon_r = 52.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.1, 6.1, 6.1); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: 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) = 1.08 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 = 32.6 V/m ; Power Drift = -0.081 dB Peak SAR (extrapolated) = 1.29 W/kg **SAR(1 g) = 1.02 mW/g ; SAR(10 g) = 0.722 mW/g** Maximum value of SAR (measured) = 1.08 mW/g 

Date/Time: 1/29/2010 11:50:01 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-LeftHandSide-GSM1900-Touch-High-Closed**DUT: Sunny; Type: DUT; Serial: #17385**

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

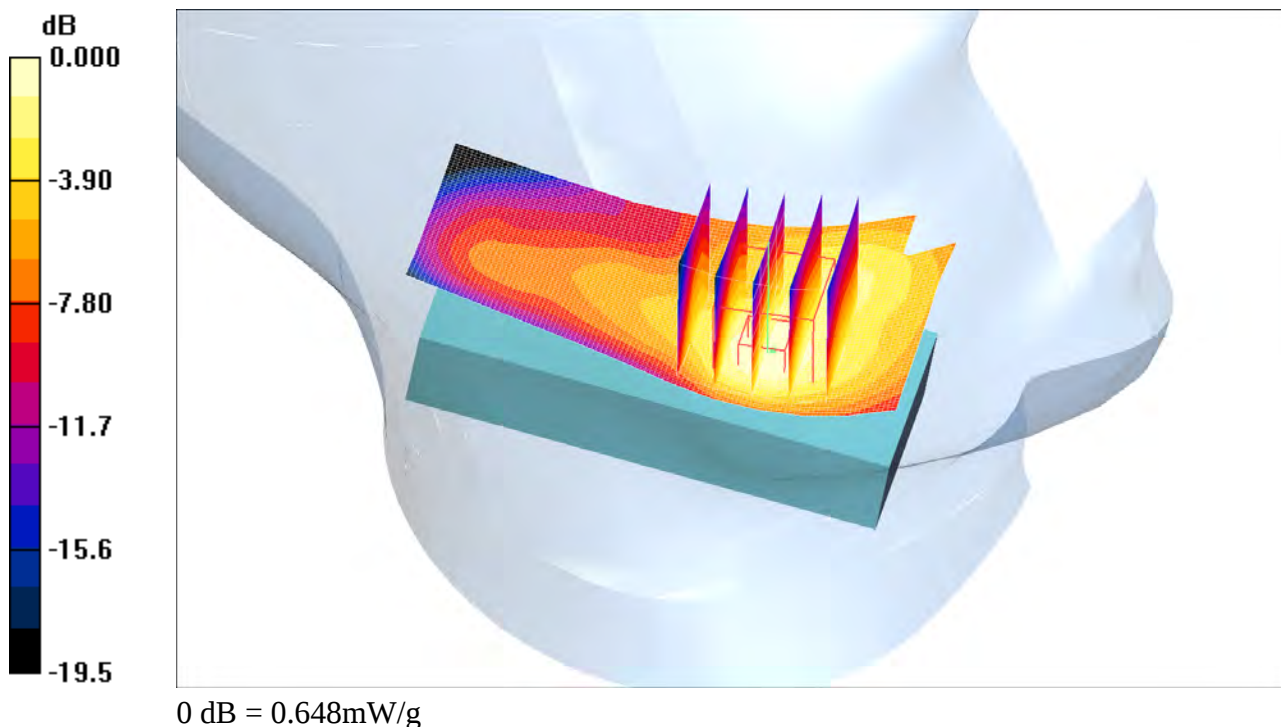
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.47 \text{ mho/m}$; $\epsilon_r = 38.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Touch position - High/Area Scan (61x111x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$ Maximum value of SAR (interpolated) = 0.629 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 = 8.64 V/m ; Power Drift = -0.059 dB Peak SAR (extrapolated) = 0.846 W/kg **SAR(1 g) = 0.572 mW/g ; SAR(10 g) = 0.328 mW/g** Maximum value of SAR (measured) = 0.648 mW/g 

Date/Time: 1/29/2010 11:07:39 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-LeftHandSide-GSM1900-Tilt-Mid-Closed**DUT: Sunny; Type: DUT; Serial: #17385**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.251 mW/g

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

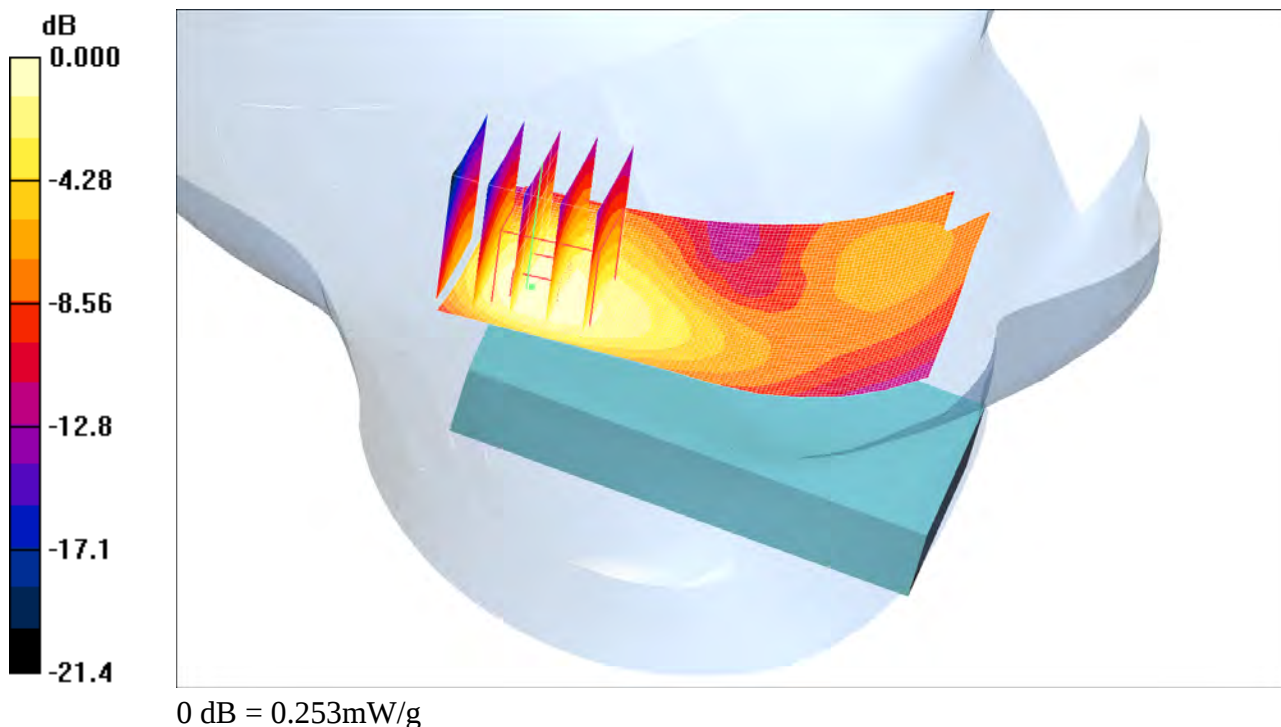
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.9 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 0.345 W/kg

SAR(1 g) = 0.230 mW/g; SAR(10 g) = 0.138 mW/g

Maximum value of SAR (measured) = 0.253 mW/g



Date/Time: 1/29/2010 1:48:45 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-RightHandSide-GSM1900-Touch-High-Closed**DUT: Sunny; Type: DUT; Serial: #17385**

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

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

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

Touch position - High -Slider closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:

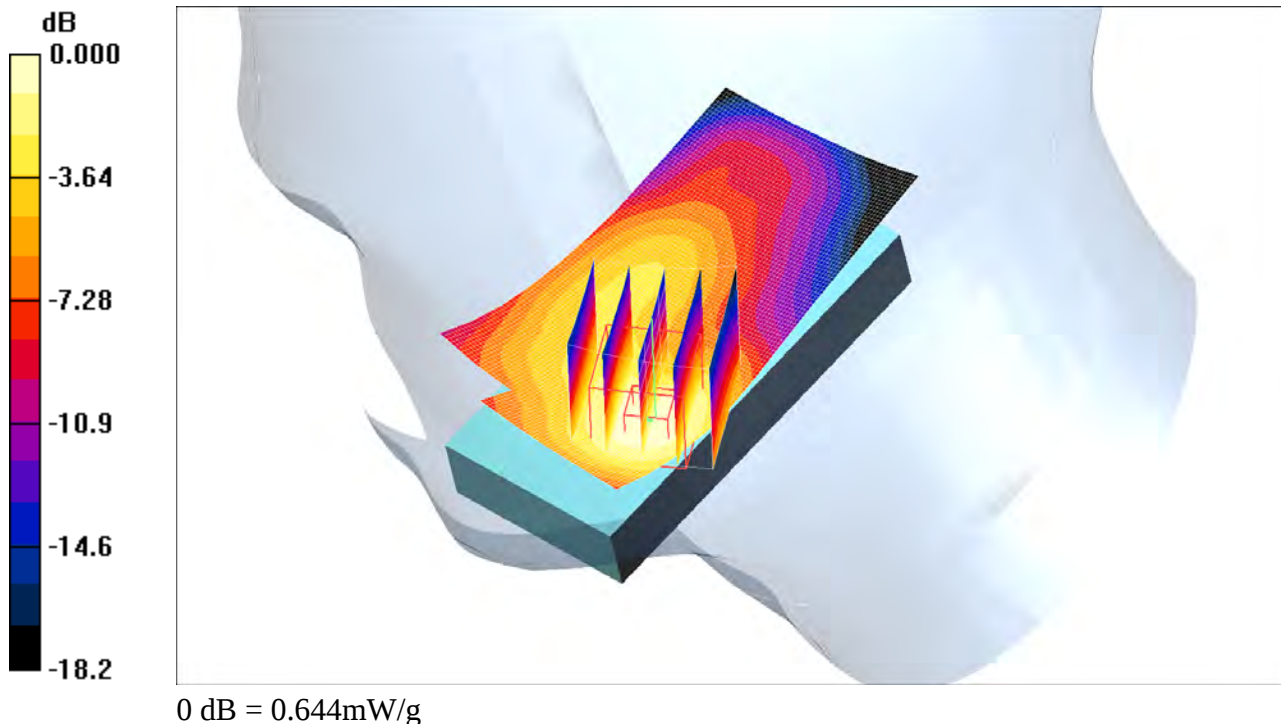
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 6.98 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.923 W/kg

SAR(1 g) = 0.580 mW/g; SAR(10 g) = 0.322 mW/g

Maximum value of SAR (measured) = 0.644 mW/g



Date/Time: 1/29/2010 1:14:34 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-RightHandSide-GSM1900-Tilt-Mid-Closed**DUT: Sunny; Type: DUT; Serial: #17385**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.25, 5.25, 5.25); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.336 mW/g

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

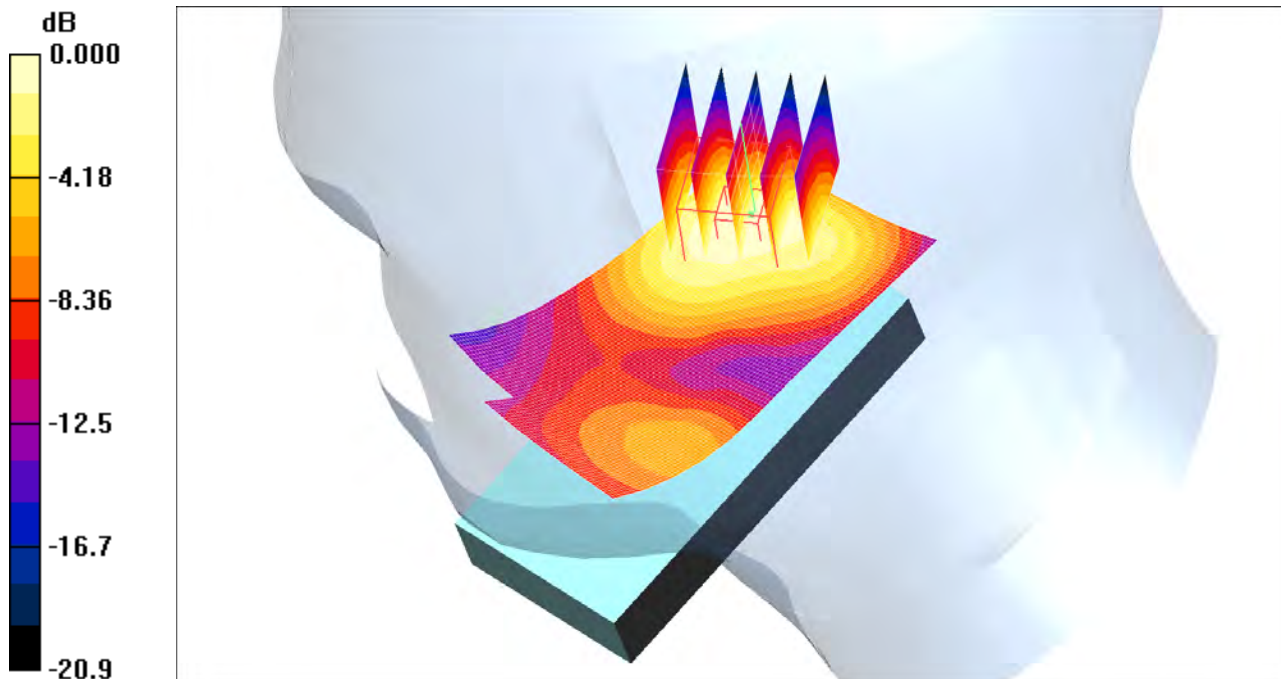
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 12.9 V/m; Power Drift = 0.053 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.292 mW/g; SAR(10 g) = 0.169 mW/g

Maximum value of SAR (measured) = 0.315 mW/g



0 dB = 0.315mW/g

Date/Time: 2/15/2010 11:41:39 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-1900-Speech-Low-PHF**DUT: Sunny; Type: DUT; Serial: #17385**

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

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.49$ 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(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body - PHF 1/Area Scan (41x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.473 mW/g

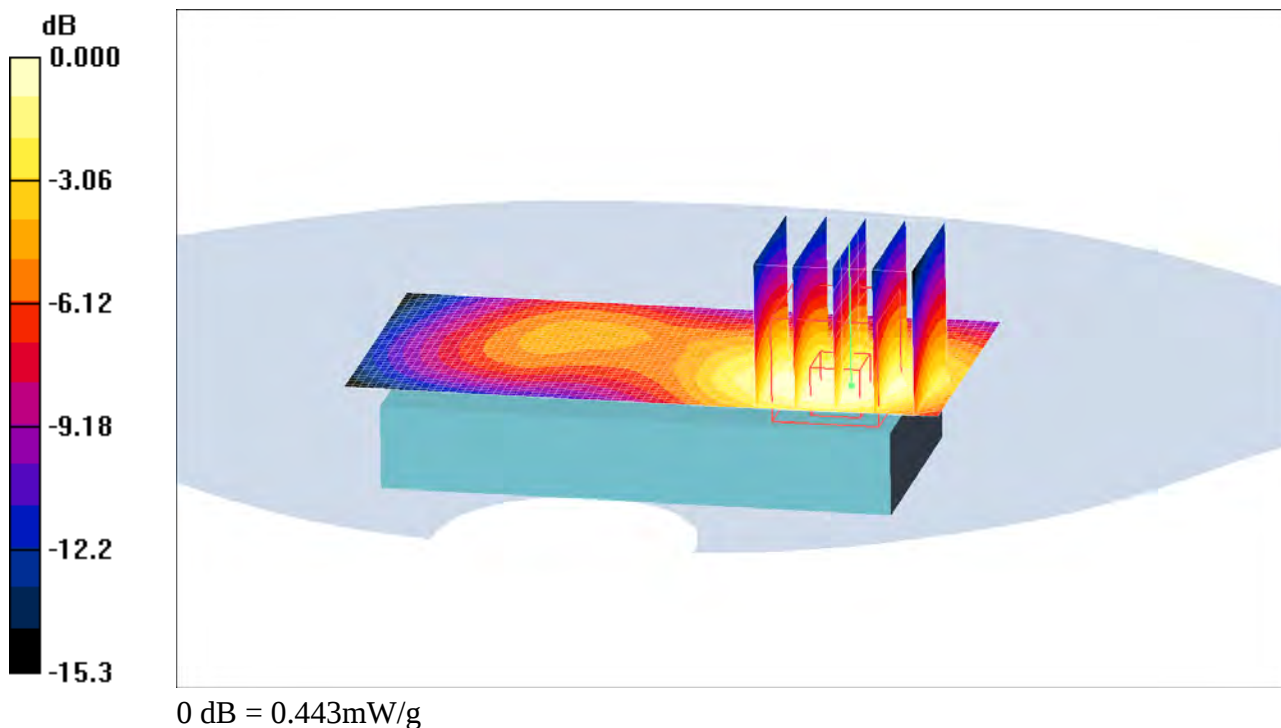
Body - PHF 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.076 dB

Peak SAR (extrapolated) = 0.597 W/kg

SAR(1 g) = 0.408 mW/g; SAR(10 g) = 0.250 mW/g

Maximum value of SAR (measured) = 0.443 mW/g



Date/Time: 2/15/2010 11:31:17 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-1900-Speech-Mid-PHF**DUT: Sunny; Type: DUT; Serial: #17385**

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

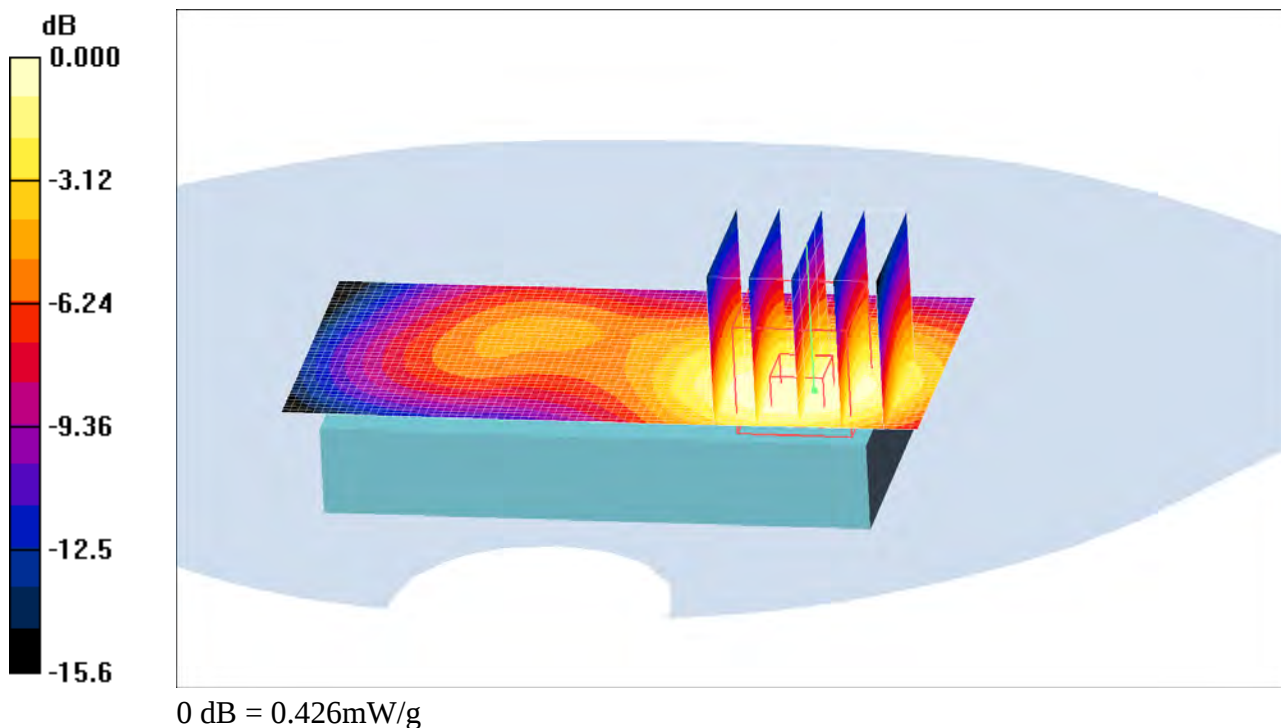
Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.52 \text{ mho/m}$; $\epsilon_r = 50.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body - PHF 2/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.450 mW/g **Body - PHF 2/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 10.3 V/m ; Power Drift = -0.084 dB Peak SAR (extrapolated) = 0.583 W/kg **SAR(1 g) = 0.395 mW/g ; SAR(10 g) = 0.241 mW/g** Maximum value of SAR (measured) = 0.426 mW/g 

Date/Time: 2/15/2010 11:15:40 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-1900-Speech-High-PHF**DUT: Sunny; Type: DUT; Serial: #17385**

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

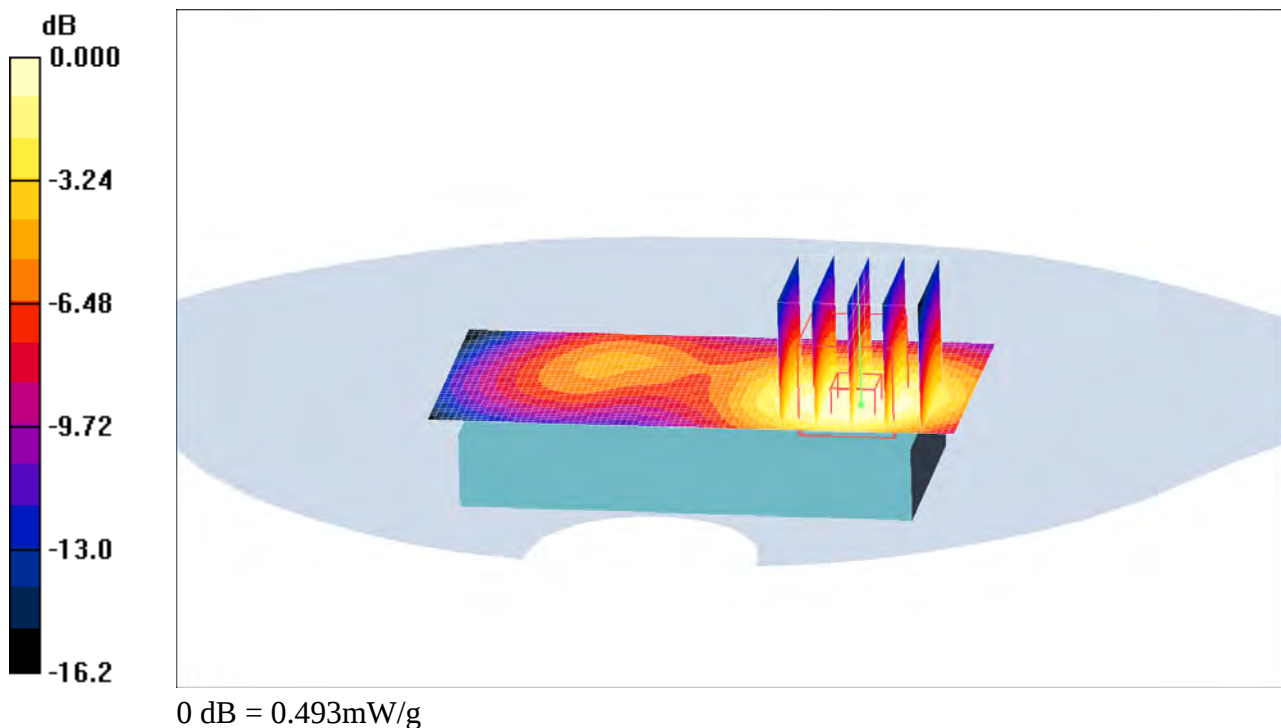
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Body - PHF 3/Area Scan (41x81x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$ Maximum value of SAR (interpolated) = 0.515 mW/g **Body - PHF 3/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 9.31 V/m ; Power Drift = -0.033 dB Peak SAR (extrapolated) = 0.675 W/kg **SAR(1 g) = 0.452 mW/g ; SAR(10 g) = 0.274 mW/g** Maximum value of SAR (measured) = 0.493 mW/g 

Date/Time: 2/15/2010 1:02:27 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-1900-GPRS-High**DUT: Sunny; Type: DUT; Serial: #17385**

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

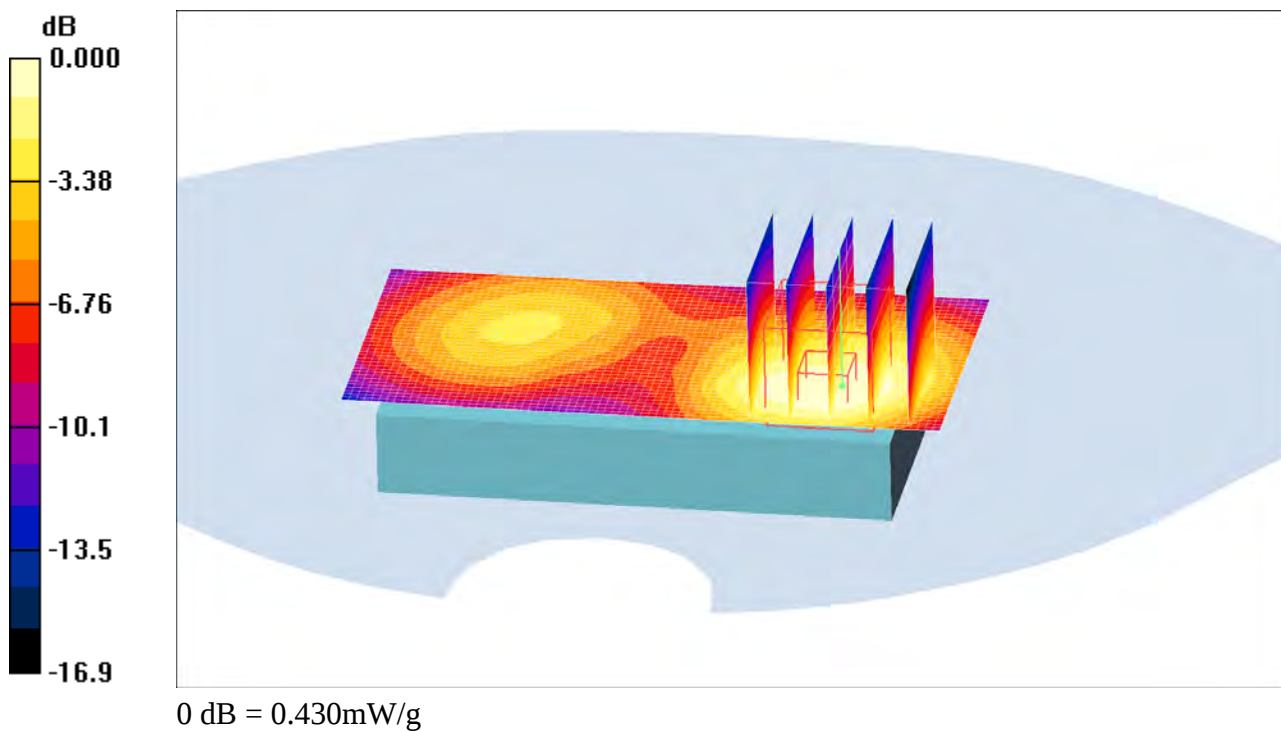
Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.55 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.67, 4.67, 4.67); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: 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) = 0.461 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 = 8.08 V/m ; Power Drift = 0.037 dB Peak SAR (extrapolated) = 0.599 W/kg **SAR(1 g) = 0.396 mW/g ; SAR(10 g) = 0.235 mW/g** Maximum value of SAR (measured) = 0.430 mW/g 

Date/Time: 2/10/2010 10:47:33 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-LeftHandSide-WLAN-Touch-High-Closed**DUT: Sunny; Type: DUT; Serial: #17388**

Communication System: WLAN; Frequency: 2472 MHz; Duty Cycle: 1:1

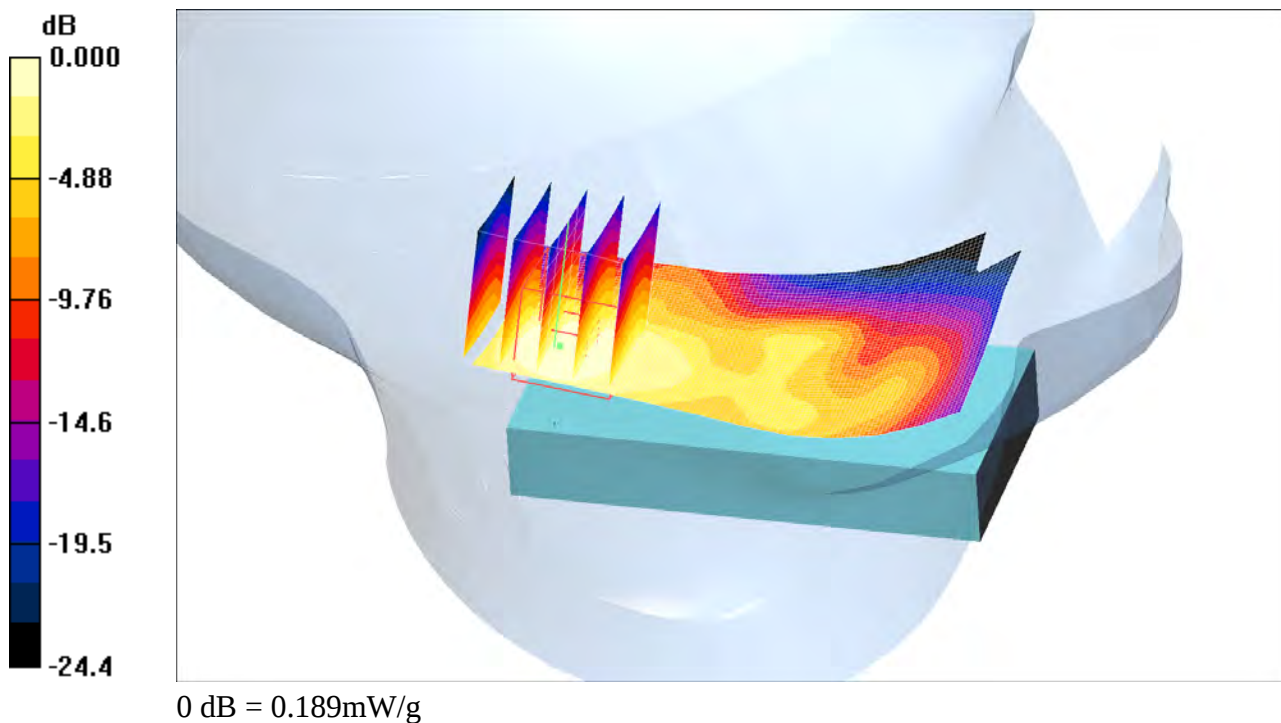
Medium parameters used: $f = 2472$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 37.5$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/11/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Slider Closed 4 - Red/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.193 mW/g
- Touch position - Slider Closed 4 - Red/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.14 V/m; Power Drift = -0.494 dB
Peak SAR (extrapolated) = 0.313 W/kg
SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.090 mW/g
Maximum value of SAR (measured) = 0.189 mW/g



Date/Time: 2/10/2010 9:34:27 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-LeftHandSide-WLAN-Tilt-Mid-Closed**DUT: Sunny; Type: DUT; Serial: #17388**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 37.6$; $\rho = 1000$ 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: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

Tilt position - Slider Closed - Red/Area Scan (61x111x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.173 mW/g

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

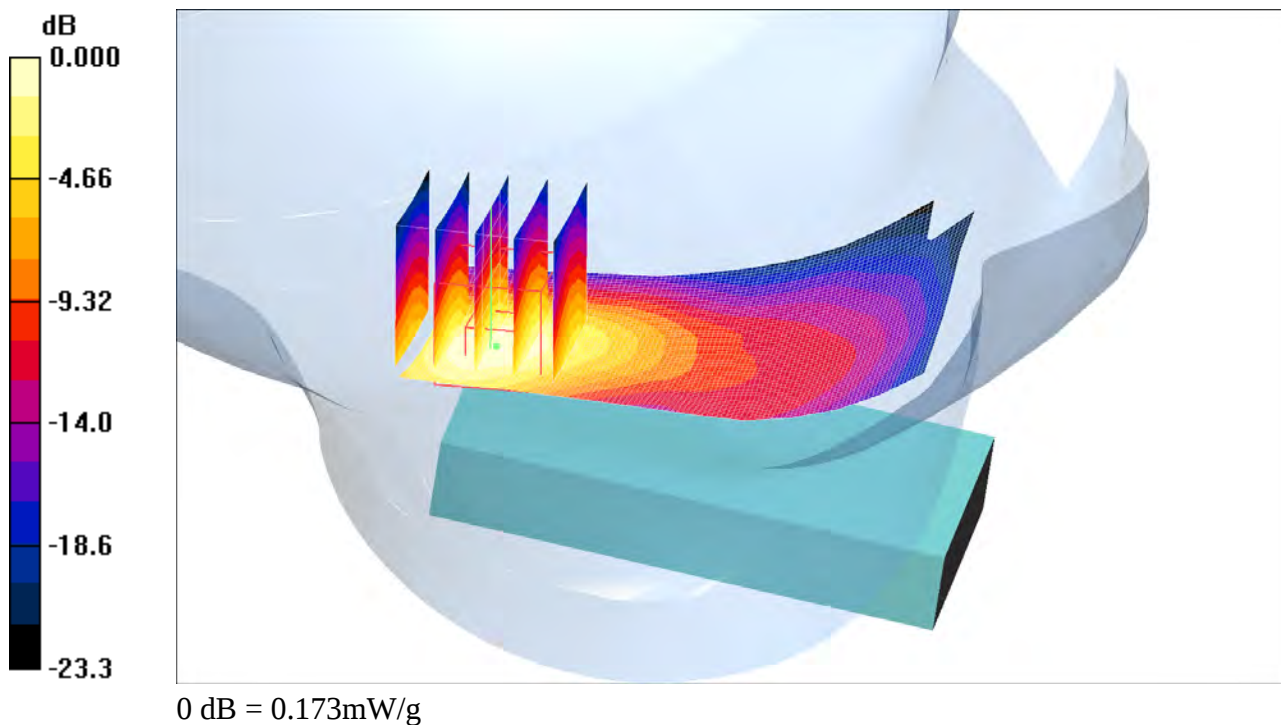
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.65 V/m; Power Drift = -0.176 dB

Peak SAR (extrapolated) = 0.279 W/kg

SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.173 mW/g



Date/Time: 2/10/2010 12:47:33 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-RightHandSide-WLAN-Touch-Low-Closed**DUT: Sunny; Type: DUT; Serial: #17388**

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

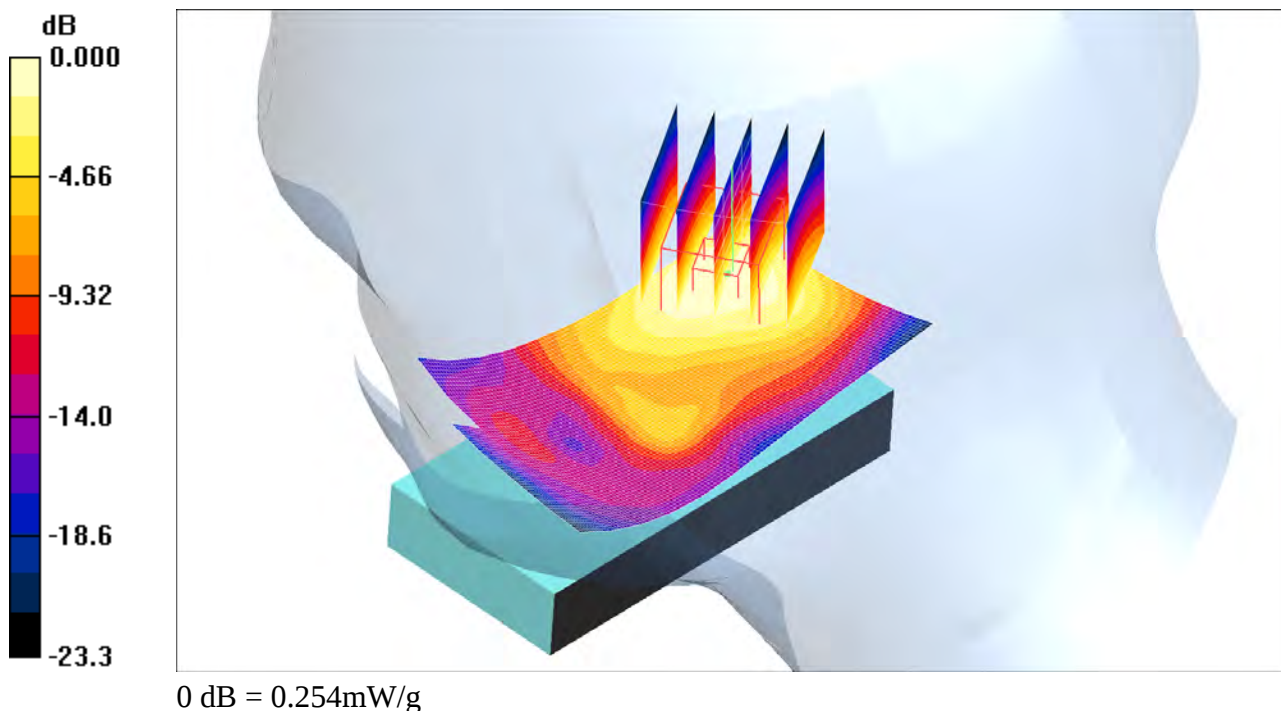
Medium parameters used: $f = 2412$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 37.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/11/2009
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/10/2009
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - Bottom - Slider Closed/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.264 mW/g
- Touch position - Bottom - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0:**
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.07 V/m; Power Drift = -0.087 dB
Peak SAR (extrapolated) = 0.476 W/kg
SAR(1 g) = 0.229 mW/g; SAR(10 g) = 0.117 mW/g
Maximum value of SAR (measured) = 0.254 mW/g



Date/Time: 2/10/2010 12:26:57 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Sunny18-RightHandSide-WLAN-Tilt-Mid-Closed**DUT: Sunny; Type: DUT; Serial: #17388**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 37.6$; $\rho = 1000$ 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: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.189 mW/g

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

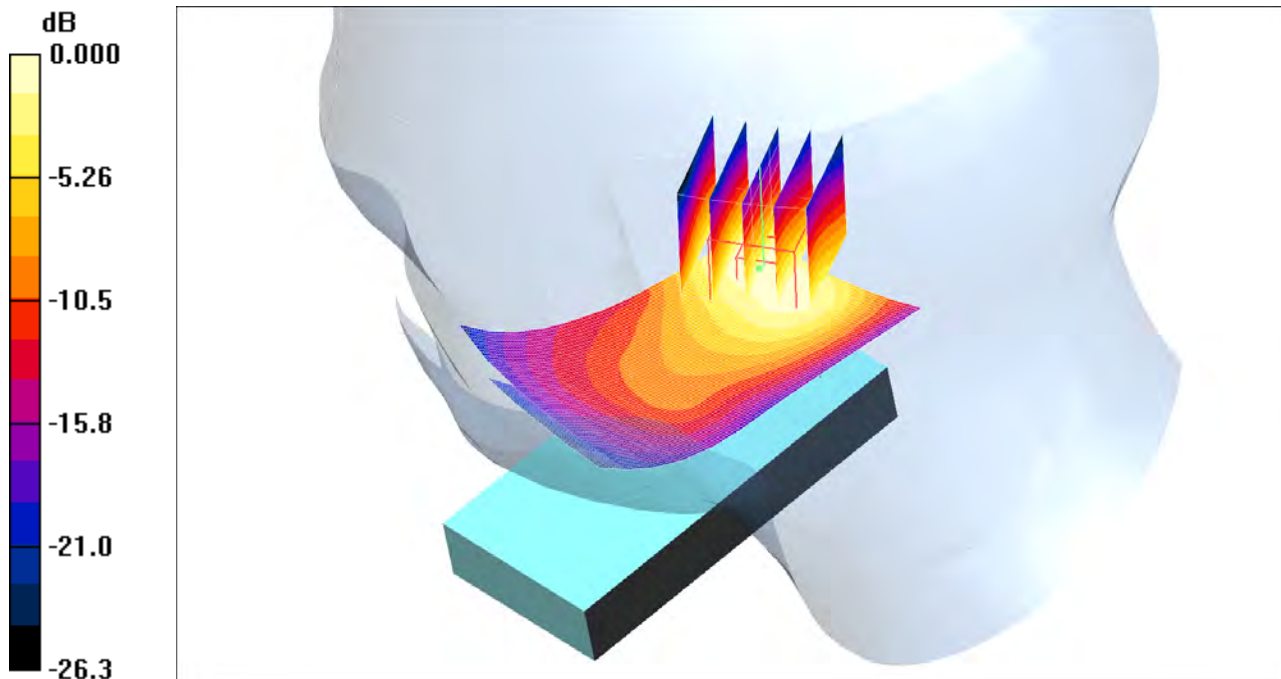
Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.41 V/m; Power Drift = -0.145 dB

Peak SAR (extrapolated) = 0.349 W/kg

SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.081 mW/g

Maximum value of SAR (measured) = 0.184 mW/g



0 dB = 0.184mW/g

Date/Time: 2/11/2010 12:23:48 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-Body-WLAN-Low**DUT: Sunny; Type: DUT; Serial: #17388**

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

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.16, 4.16, 4.16); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: 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) = 0.121 mW/g

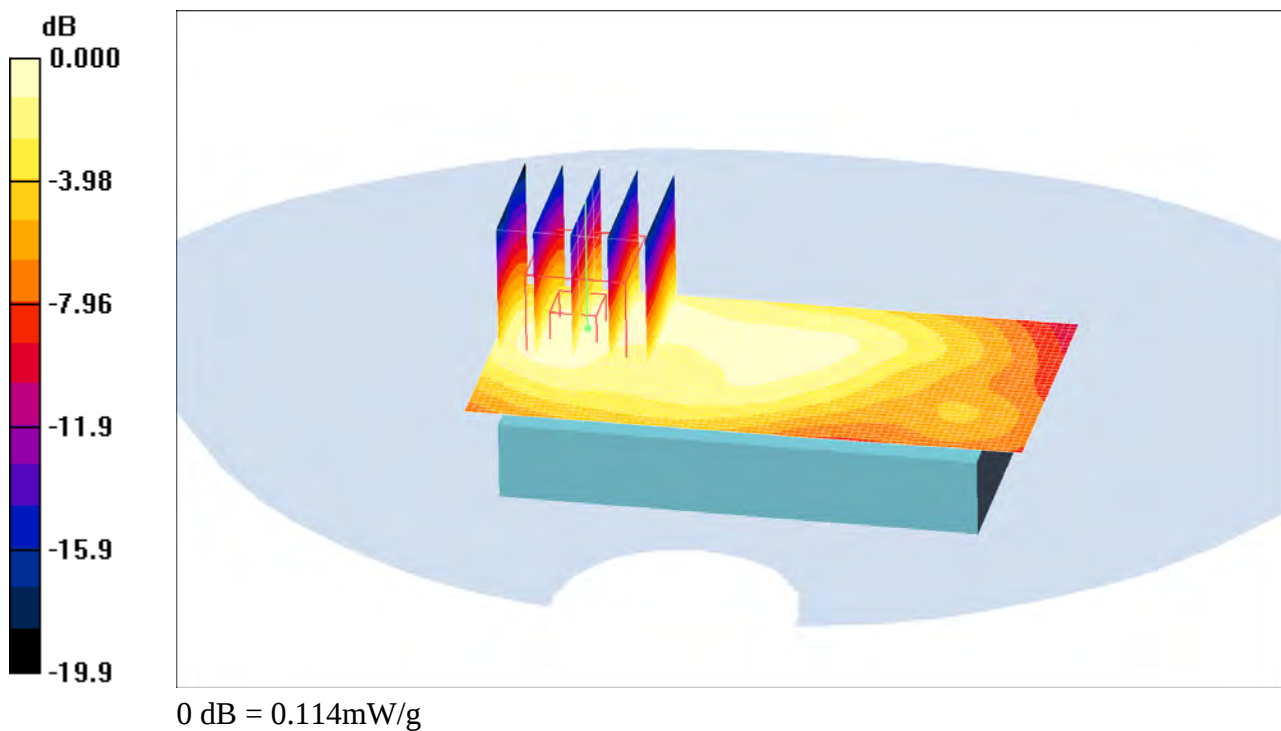
Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.35 V/m; Power Drift = -0.336 dB

Peak SAR (extrapolated) = 0.213 W/kg

SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.059 mW/g

Maximum value of SAR (measured) = 0.114 mW/g



Date/Time: 2/11/2010 11:45:34 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-Body-WLAN-Mid**DUT: Sunny; Type: DUT; Serial: #17388**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.16, 4.16, 4.16); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: 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) = 0.144 mW/g

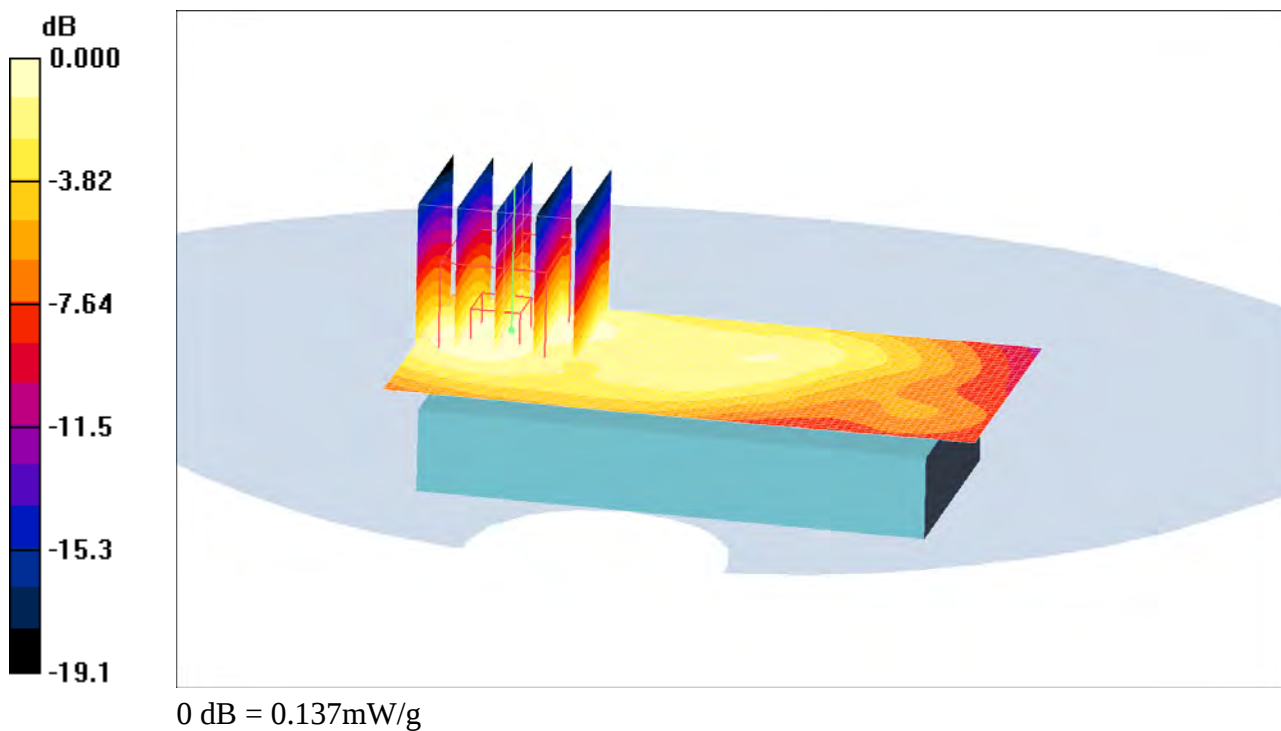
Body 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.50 V/m; Power Drift = -0.393 dB

Peak SAR (extrapolated) = 0.257 W/kg

SAR(1 g) = 0.128 mW/g; SAR(10 g) = 0.070 mW/g

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



Date/Time: 2/11/2010 12:42:36 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-Body-WLAN-FCC High**DUT: Sunny; Type: DUT; Serial: #17388**

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

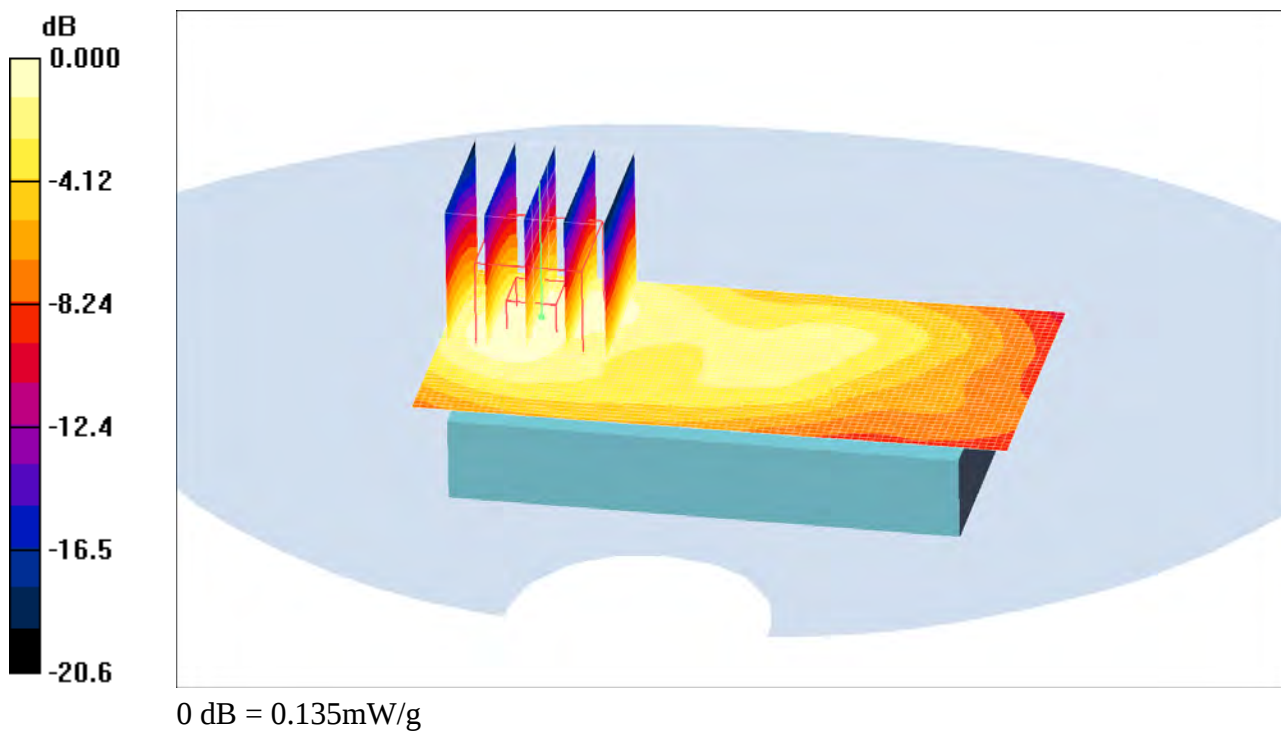
Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.99 \text{ mho/m}$; $\epsilon_r = 50.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.16, 4.16, 4.16); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: 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) = 0.141 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 = 6.57 V/m ; Power Drift = -0.156 dB Peak SAR (extrapolated) = 0.256 W/kg **SAR(1 g) = 0.126 mW/g ; SAR(10 g) = 0.069 mW/g** Maximum value of SAR (measured) = 0.135 mW/g 

Date/Time: 2/11/2010 1:23:24 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Sunny18-Body-WLAN-High-Front**DUT: Sunny; Type: DUT; Serial: #17388**

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

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 50.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.16, 4.16, 4.16); Calibrated: 11/11/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/10/2009
- Phantom: SAM-3; Type: SAM; Serial: 1436
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.060 mW/g

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

Reference Value = 3.48 V/m; Power Drift = -0.191 dB

Peak SAR (extrapolated) = 0.113 W/kg

SAR(1 g) = 0.056 mW/g; SAR(10 g) = 0.032 mW/g

Maximum value of SAR (measured) = 0.059 mW/g

