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BA/SEMC/CCDAU *Jon Kenny*

Approved

LD/SEMC/CCDALE *Peter Lindeborg*

Checked

PL

Company Internal
REPORT

No.

CCDA09:083.

Date

090312

Rev

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File

Report issued by Accredited SAR Laboratory**for**

FCC ID: PY7A3880023 (W995)

Date of test: February 11th to March 11rd 2009**Laboratory:** Sony Ericsson SAR Test Laboratory
Sony Ericsson Mobile Communications AB
Maplewood, Chineham Business Park
Basingstoke, RG24 8YB,
England**Testing Engineer:** Jon Kenny
Jon.Kenny@sonyericsson.com
+44 1256 77 48 91**Testing Approval:** Peter Lindeborg
peter.lindeborg@sonyericsson.com
+46 10 802 43 68**Statement of Compliance**

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

Sony Ericsson Type AAD-3880023-BV; FCC ID PY7A3880023; IC 4170B-A3880023

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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090312

Rev

A

Reference

File

Table of contents

1 INTRODUCTION.....3

2 CUSTOMER DETAILS.....3

3 DEVICE UNDER TEST.....3

 3.1 ANTENNA DESCRIPTION.....3

 3.2 DEVICE DESCRIPTION4

4 TEST EQUIPMENT.....6

 4.1 DOSIMETRIC SYSTEM6

 4.2 ADDITIONAL EQUIPMENT6

5 ELECTRICAL PARAMETERS ON THE TISSUE SIMULATING LIQUID7

6 SYSTEM ACCURACY VERIFICATION.....8

7 SAR MEASUREMENT UNCERTAINTY9

8 TEST RESULTS10

9 REFERENCES.....13

APPENDIX14

 9.1 PHOTOGRAPHS OF THE DEVICE UNDER TEST14

 9.2 DEVICE POSITION AT SAM TWIN PHANTOM15

 9.3 ATTACHMENTS.....16

Company Internal
 REPORT

Prepared (also subject responsible if other)

No.

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A

File

1 Introduction

In this test report, compliance of the Sony Ericsson FCC ID: PY7A3880023 (W995) portable telephone with RF safety guidelines is demonstrated. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in the SAR Measurement Specifications of Wireless Handsets [1].

2 Customer details

Company Name:	Sony Ericsson Mobile Communications AB
Address:	TA&RAT-team, 5th Floor W-building, 1-8-15, Minato-ku, Tokyo, 108-0075, Japan
Contact Name:	Takashi Izumi

3 Device Under Test

3.1 Antenna Description

Type	Internal antenna	
Location	Bottom of phone	
Main and WLAN antennas distance	68.6mm	
Dimensions	Max length	15 mm
	Max width	45 mm
Configuration	Monopole	

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3.2 Device Description

Device model	AAD-3880023-BV					
Market name	W995					
Serial number (EUT #)	CB5A10TNKB (#14608) CB5A10TMX9 (#14611) - WLAN					
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 (#14608)	32.6	32.7	32.6	30.3	30.3	30.4
Product Maximum power Level [dBm]¹	32.6	32.6	32.6	30.4	30.4	30.4
Data mode	GPRS			GPRS		
Crest factor	4.15			4.15		
Measured Power Level [dBm]¹ (#14608)	30.1	30.1	30.0	27.9	27.9	27.8
Product Maximum power Level [dBm]¹	30.1	30.1	30.1	27.9	27.9	27.9
Data mode	EDGE			EDGE		
Crest factor	4.15			4.15		
Measured Power Level [dBm]¹ (#14608)	28.0	28.0	28.0	28.0	28.0	28.0
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, 7.99 dBm
Prototype or production unit	Preproduction
Hardware Version	AP1.2 (#14608, #14611)
Software version	R1DB008 (#14608) R13FC108 (#14611)
Device category	Portable
RF exposure environment	General population / uncontrolled

¹ These values are supplied by the customer



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090312

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A

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File

WLAN Output Power					
Mode	Max Output Power ¹ (dBm)	Factory Tolerance ¹ (dB)	EUT (#14611) power (dBm) ¹		
			Ch 1	Ch6	Ch11
802.11b 1Mbit/sec	16.0	1	16.0	15.3	16.3
802.11b 2Mbit/sec			16.0	15.5	16.0
802.11b 5.5Mbit/sec			15.8	15.5	16.0
802.11b 11Mbit/sec			15.9	15.3	15.9
802.11g 6Mbit/sec	14.0	1	13.4	13.5	13.5
802.11g 9Mbit/sec			13.5	13.3	13.5
802.11g 12Mbit/sec			13.4	13.4	13.8
802.11g 18Mbit/sec			13.9	13.9	13.8
802.11g 24Mbit/sec			13.3	13.3	13.6
802.11g 36Mbit/sec			13.7	13.5	13.6
802.11g 48Mbit/sec			13.5	13.2	13.8
802.11g 54Mbit/sec			13.5	13.7	13.7

¹ These values are supplied by the customer

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090312

Rev

A

Reference

File

4 Test equipment

4.1 Dosimetric system

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

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

4.2 Additional equipment

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

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PL

090312

A

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, 2009-02-11	39.84	0.86	1.00
		Recommended	41.50	0.90	1.00
835	Body	Measured, 2009-03-02	53.60	0.99	1.00
		Recommended	55.20	0.97	1.00
1900	Head	Measured, 2009-02-24	38.03	1.44	1.00
		Recommended	40.00	1.40	1.00
1900	Head	Measured, 2009-02-26	38.02	1.42	1.00
		Recommended	40.00	1.40	1.00
1900	Head	Measured, 2009-03-11	38.04	1.43	1.00
		Recommended	40.00	1.40	1.00
1900	Body	Measured, 2009-02-20	50.66	1.54	1.00
		Recommended	53.30	1.52	1.00
2450	Head	Measured, 2009-03-04	37.88	1.85	1.00
		Recommended	39.20	1.80	1.00
2450	Body	Measured, 2009-03-03	50.95	1.97	1.00
		Recommended	52.70	1.95	1.00

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Rev

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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 ρ [g/cm ³]	Liquid T [°C]
				ε _r	σ [S/m]		
835	Head	Measured, 2009-02-11	9.16	39.84	0.86	1.00	22.7
		Reference	9.34	41.50	0.90	1.00	22.0
835	Body	Measured, 2009-03-02	10.28	53.60	0.99	1.00	23.5
		Reference	9.85	55.20	0.97	1.00	22.0
1900	Head	Measured, 2009-02-24	38.68	38.03	1.44	1.00	23.6
		Reference	41.30	40.00	1.40	1.00	22.0
1900	Head	Measured, 2009-02-26	38.20	38.02	1.42	1.00	24.1
		Reference	41.30	40.00	1.40	1.00	22.0
1900	Head	Measured, 2009-03-11	38.88	38.04	1.43	1.00	23.4
		Recommended	41.30	40.00	1.40	1.00	23.4
1900	Body	Measured, 2009-02-20	40.80	50.66	1.54	1.00	23.5
		Reference	41.30	53.30	1.52	1.00	22.0
2450	Head	Measured, 2009-03-04	51.60	37.88	1.85	1.00	23.8
		Reference	54.10	39.20	1.80	1.00	22.0
2450	Body	Measured, 2009-03-03	53.60	50.95	1.97	1.00	23.4
		Reference	53.10	52.70	1.95	1.00	22.0



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090312

Rev

A

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File

7 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sony Ericsson PY7A3880023 (W995) 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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090312

Rev

A

Reference

File

8 Test results

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

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

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

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A

File

Band	Channel	Measured output power ¹ [dBm]	Position	Liquid T [°C]	Measured SAR [W/kg]	
					Left-hand 1g mass	Right-hand 1g mas
GSM 850	128	32.6	Cheek	21.9	0.41	-
			Tilt	21.9	-	-
			² Cheek	21.9	-	0.48
			² Tilt	21.9	-	-
	190	32.7	Cheek	21.9	0.68	0.63
			Tilt	21.9	0.38	0.38
			² Cheek	21.9	0.65	0.75
			² Tilt	21.9	0.48	0.48
	251	32.6	Cheek	21.9	0.91	-
			Tilt	21.9	-	-
			² Cheek	21.9	-	0.73
			² Tilt	21.9	-	-
GSM 1900	512	30.3	Cheek	22.1	0.84	-
			Tilt	22.1	-	-
			² Cheek	22.1	-	0.96
			² Tilt	22.1	-	-
	661	30.3	Cheek	22.1	0.67	0.40
			Tilt	22.1	0.27	0.37
			² Cheek	22.1	0.66	0.97
			² Tilt	22.1	0.38	0.39
	810	30.4	Cheek	22.1	0.72	-
			Tilt	22.1	-	-
			² Cheek	22.1	-	1.09
			² Tilt	22.1	-	-
WLAN 802.11b 1 Mbps	1	16.0	Cheek	21.5	-	-
			Tilt	21.5	-	-
			² Cheek	21.5	0.12	-
			² Tilt	21.5	-	0.11
	6	15.3	Cheek	21.5	0.05	0.03
			Tilt	21.5	0.03	0.03
			² Cheek	21.5	0.20	0.15
			² Tilt	21.5	0.18	0.16
	11	16.3	Cheek	21.5	-	-
			Tilt	21.5	-	-
			² Cheek	21.5	0.18	-
			² Tilt	21.5	-	0.14

Table 1: SAR measurement result for Sony Ericsson PY7A3880023 telephone at highest possible output power. Measured towards the head.

¹ Measured output values were provided by the customer.

² Slider closed.



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PL

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Date

090312

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	30.1	Back / GPRS	23.5	0.52
		32.6	Back / Speech	23.5	0.55
	190	30.1	Back / GPRS	23.5	0.82
		32.7	Back / Speech	23.5	0.81
		32.7	Back / PHF	23.5	0.71
	251	30.0	Back / GPRS	23.5	1.05
		28.0	Back / EGPRS	23.5	0.85
		30.0	Front / GPRS	23.5	0.59
		32.6	Back / Speech	23.5	0.87
GSM 1900	512	27.9	Back / GPRS	23.5	0.45
		30.3	Back / Speech	23.5	0.48
	661	27.9	Back / GPRS	23.5	0.39
		30.3	Back / Speech	23.5	0.44
		30.3	Back / PHF	23.5	0.43
	810	27.8	Back / GPRS	23.5	0.46
		28.0	Back / EGPRS	23.5	0.46
		27.8	Front / GPRS	23.5	0.19
		30.4	Back / Speech	23.5	0.54
WLAN	1	16.0	Back / WLAN	23.4	0.08
	6	15.3	Back / WLAN	23.4	0.12
	11	16.3	Back / WLAN	23.4	0.12
		16.3	Front / WLAN	23.4	0.05

Table 2: SAR measurement result for Sony Ericsson PY7A3880023 telephone at highest possible output power. Measured towards the body.

¹ Measured output values were provided by the customer.



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PL

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Date

090312

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 KDB248227. "SAR Measurement procedure for 802.11a/b/g Transmitters", May 2007.
- [6] FCC KDB648474. "SAR Evaluation Consideration for HANDSETS with Multiple Transmitters and Antenna", April 2008.

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Appendix

9.1 Photographs of the device under test



Front & Back Closed



Front & Back Open



Sides Closed



Top & Bottom Closed

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A

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File

9.2 Device position at SAM Twin Phantom



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



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



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

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File



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

9.3 Attachments

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

Date/Time: 2/11/2009 1:33:57 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-11-02-09**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:442**

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

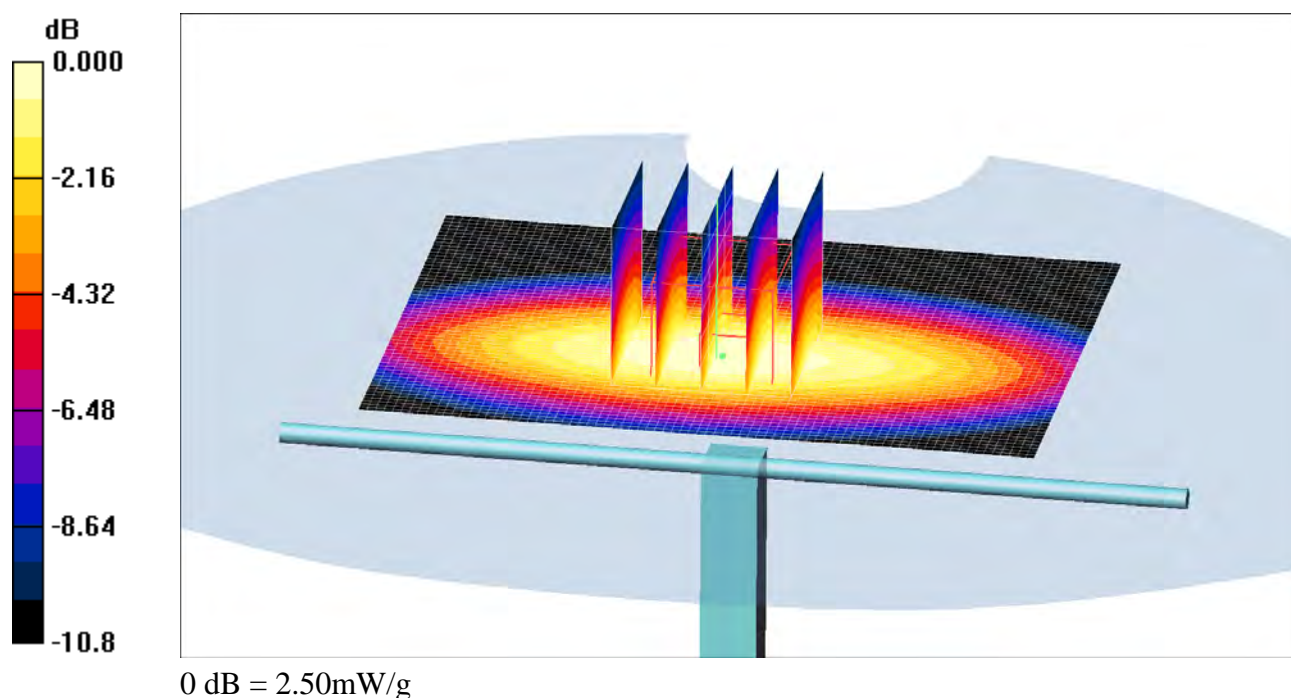
Medium parameters used: $f = 835$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.48 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.0 V/m; Power Drift = -0.446 dB
Peak SAR (extrapolated) = 3.25 W/kg
SAR(1 g) = 2.29 mW/g; SAR(10 g) = 1.5 mW/g
Maximum value of SAR (measured) = 2.50 mW/g



Date/Time: 3/2/2009 12:00:31 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D850-Body-02-03-09**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 442**

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

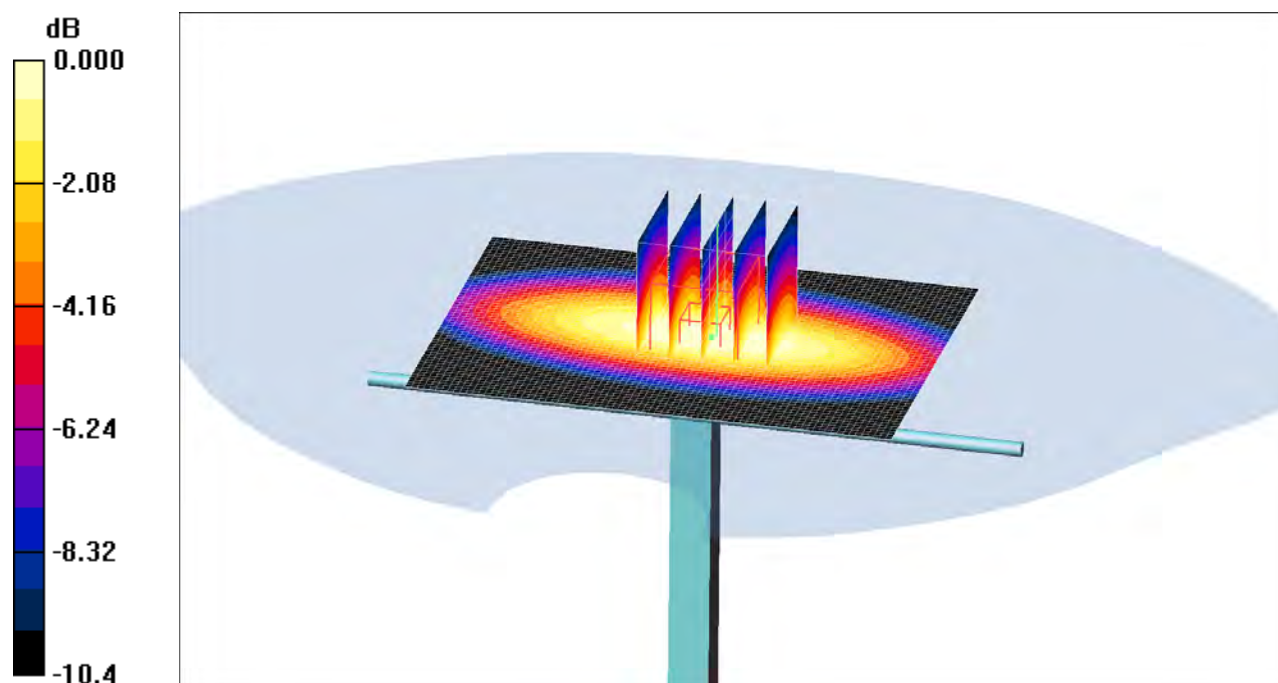
Medium parameters used: $f = 835$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=15mm, Pin=250mW/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 2.78 mW/g
- d=15mm, Pin=250mW/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 55.1 V/m; Power Drift = -0.025 dB
Peak SAR (extrapolated) = 3.53 W/kg
SAR(1 g) = 2.57 mW/g; SAR(10 g) = 1.71 mW/g
Maximum value of SAR (measured) = 2.78 mW/g



0 dB = 2.78mW/g

Date/Time: 2/24/2009 1:14:04 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-24-02-09**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

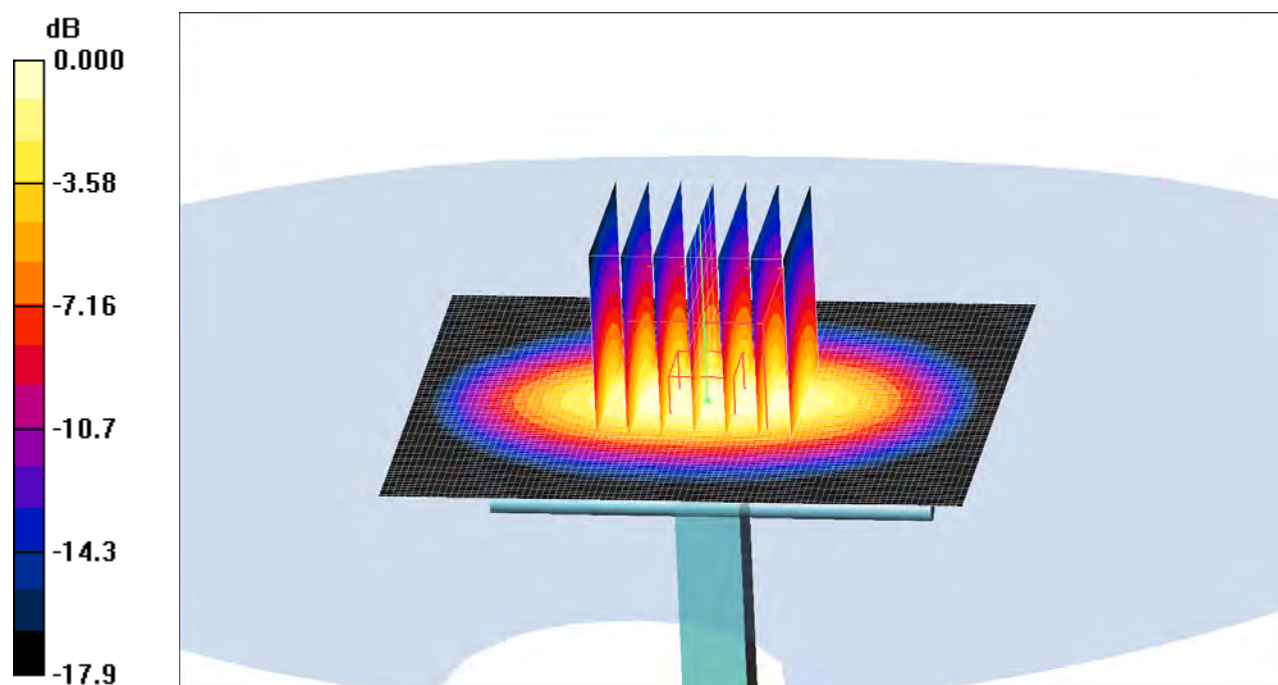
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (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: DASYS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 11.0 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.7 V/m; Power Drift = 0.001 dB
Peak SAR (extrapolated) = 17.4 W/kg
SAR(1 g) = 9.67 mW/g; SAR(10 g) = 5.02 mW/g
Maximum value of SAR (measured) = 10.9 mW/g



0 dB = 10.9mW/g

Date/Time: 2/26/2009 9:10:08 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-26-02-09**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

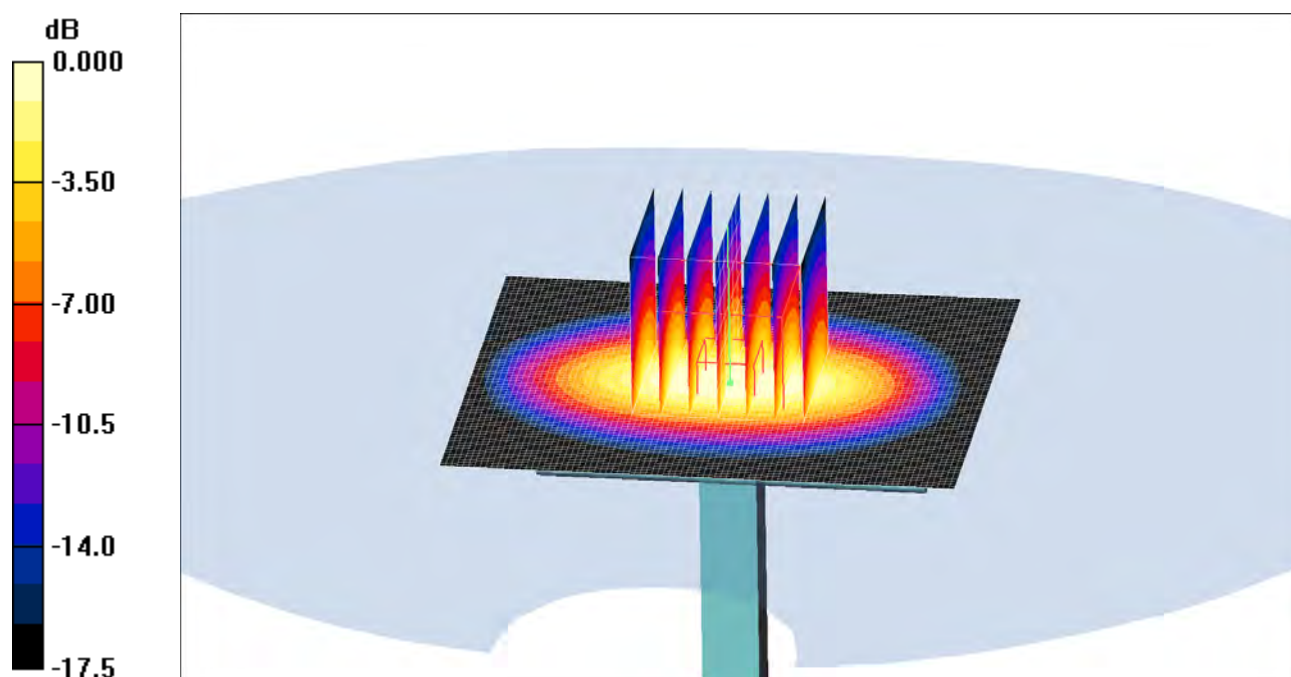
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(5.2, 5.2, 5.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 10.9 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.9 V/m; Power Drift = -0.079 dB
Peak SAR (extrapolated) = 17.1 W/kg
SAR(1 g) = 9.55 mW/g; SAR(10 g) = 5.01 mW/g
Maximum value of SAR (measured) = 10.8 mW/g



0 dB = 10.8mW/g

Date/Time: 3/11/2009 10:49:02 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-11-03-09**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

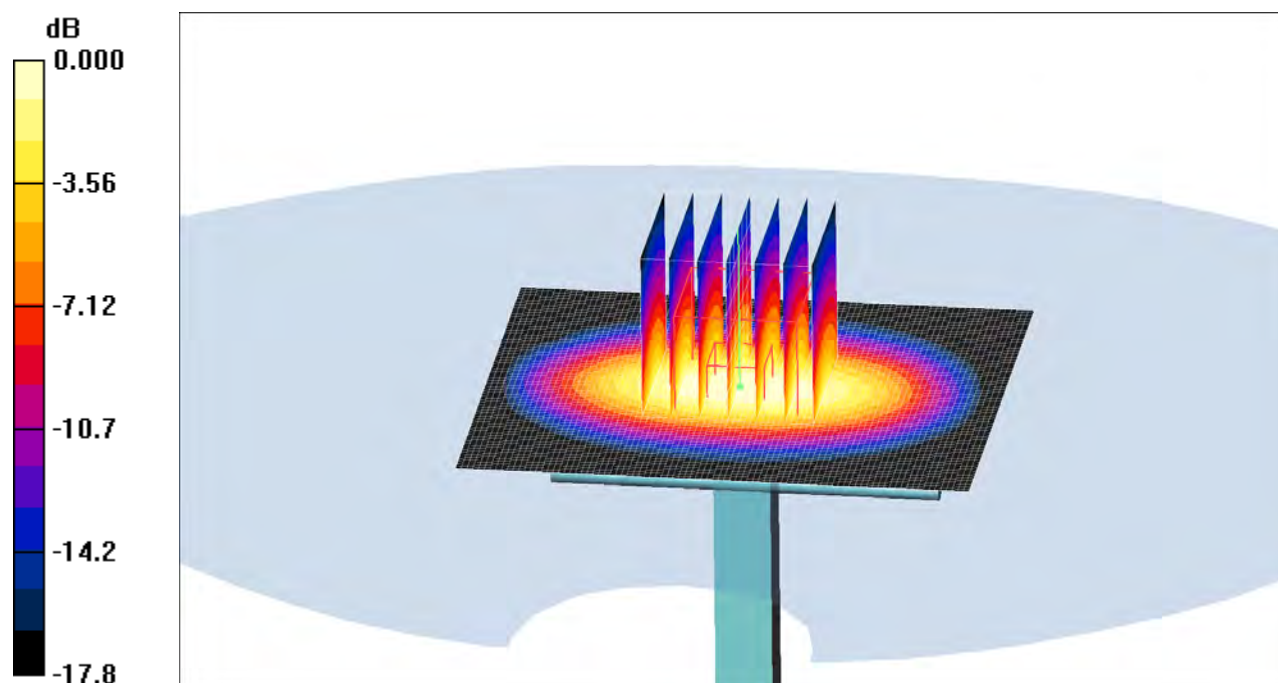
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS4 (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: DASYS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 10.8 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.5 V/m; Power Drift = 0.042 dB
Peak SAR (extrapolated) = 17.6 W/kg
SAR(1 g) = 9.72 mW/g; SAR(10 g) = 5.04 mW/g
Maximum value of SAR (measured) = 11.0 mW/g



0 dB = 11.0mW/g

Date/Time: 2/20/2009 11:58:45 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D1900-Body-20-02-09**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:539**

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

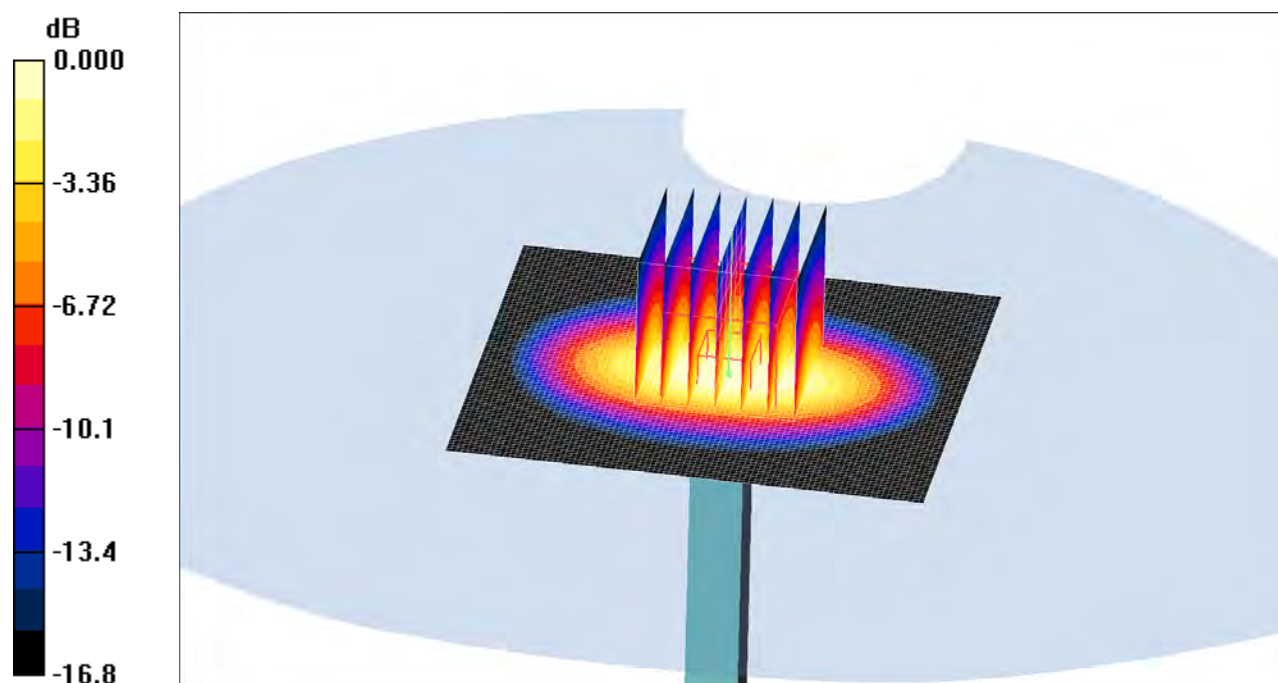
Medium parameters used: $f = 1900$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 11.5 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.2 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 18.0 W/kg
SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.36 mW/g
Maximum value of SAR (measured) = 11.5 mW/g



0 dB = 11.5mW/g

Date/Time: 3/3/2009 2:12:50 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D2450-03-03-09**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

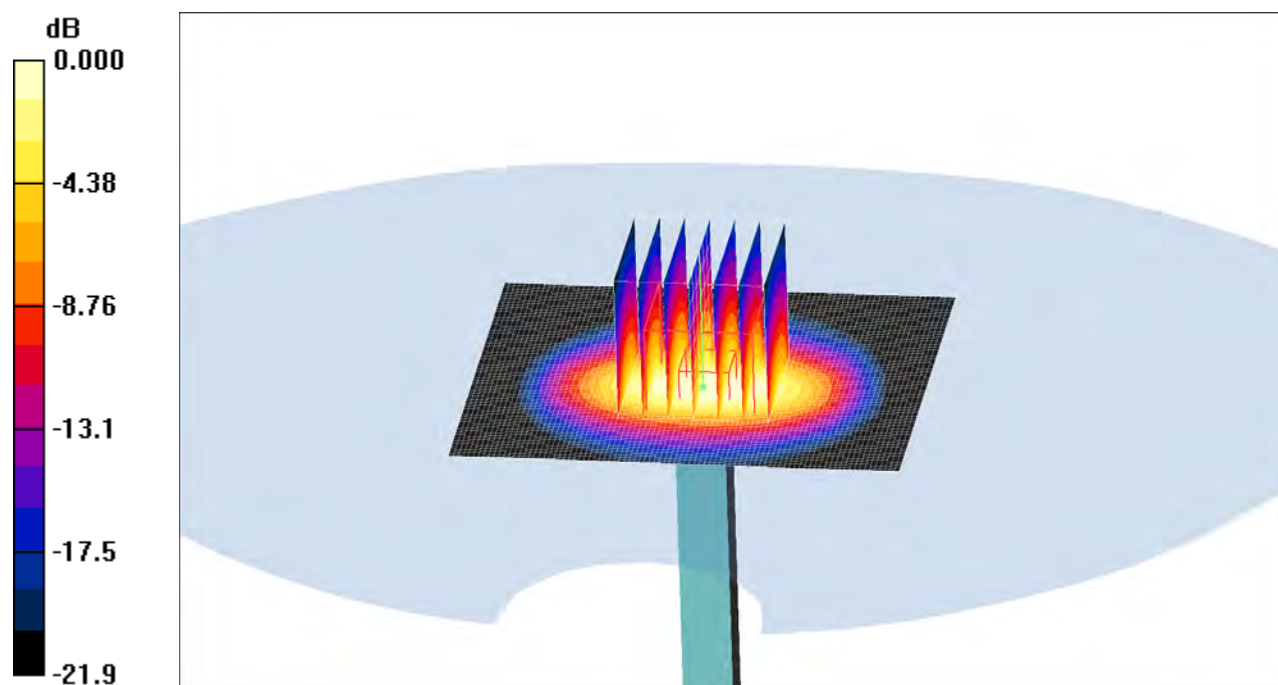
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.97$ mho/m; $\epsilon_r = 51$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(3.94, 3.94, 3.94); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 15.4 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 83.2 V/m; Power Drift = 0.031 dB
Peak SAR (extrapolated) = 30.9 W/kg
SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.13 mW/g
Maximum value of SAR (measured) = 15.1 mW/g



0 dB = 15.1mW/g

Date/Time: 3/4/2009 9:17:22 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Validation-D2450-04-03-09**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:721**

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

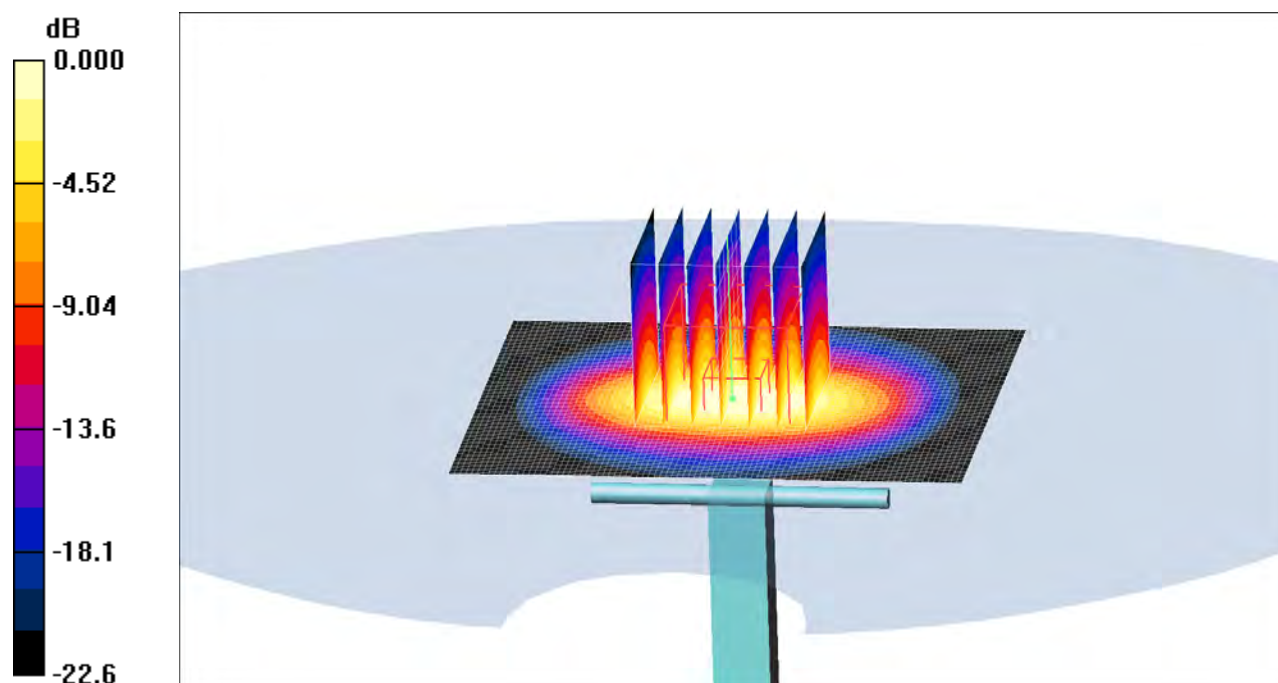
Medium parameters used: $f = 2450$ MHz; $\sigma = 1.85$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-1; Type: SAM; Serial: 1437
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- d=10mm, Pin=250mW/Area Scan (81x91x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 14.5 mW/g
- d=10mm, Pin=250mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0:** Measurement grid:
dx=5mm, dy=5mm, dz=5mm
Reference Value = 91.0 V/m; Power Drift = -0.076 dB
Peak SAR (extrapolated) = 30.8 W/kg
SAR(1 g) = 12.9 mW/g; SAR(10 g) = 5.84 mW/g
Maximum value of SAR (measured) = 14.2 mW/g



0 dB = 14.2mW/g

Date/Time: 2/11/2009 3:43:28 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-LeftHandSide-GSM850-Open-Touch-High**DUT: Hikaru; Type: DUT; Serial: #14608**

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

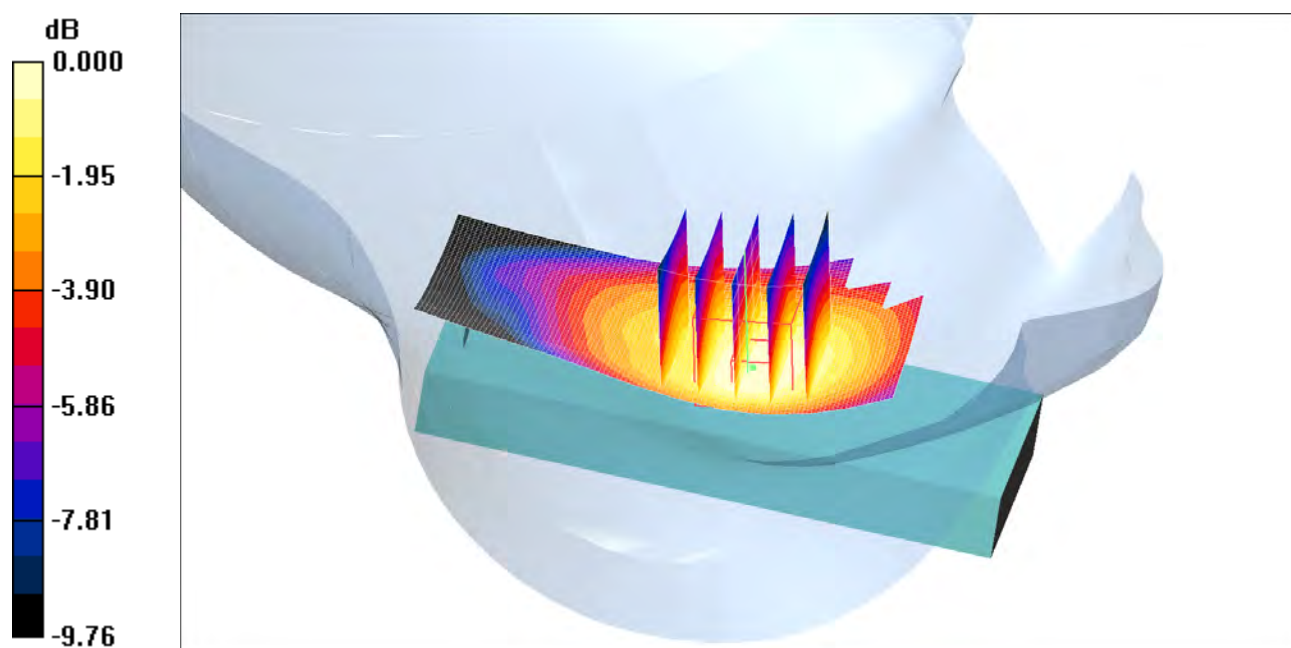
Medium parameters used: $f = 848.8$ MHz; $\sigma = 0.87$ mho/m; $\epsilon_r = 39.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-2; Type: SAM; Serial: 1025
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Touch position - High/Area Scan (61x111x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.946 mW/g
- Touch position - High/Zoom Scan (5x5x7) (5x5x7)/Cube 0:** Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.8 V/m; Power Drift = 0.065 dB
Peak SAR (extrapolated) = 1.21 W/kg
SAR(1 g) = 0.907 mW/g; SAR(10 g) = 0.653 mW/g
Maximum value of SAR (measured) = 0.967 mW/g



0 dB = 0.967mW/g

Date/Time: 2/11/2009 2:53:54 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-LeftHandSide-GSM850-Closed-Tilt-Middle**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.504 mW/g

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

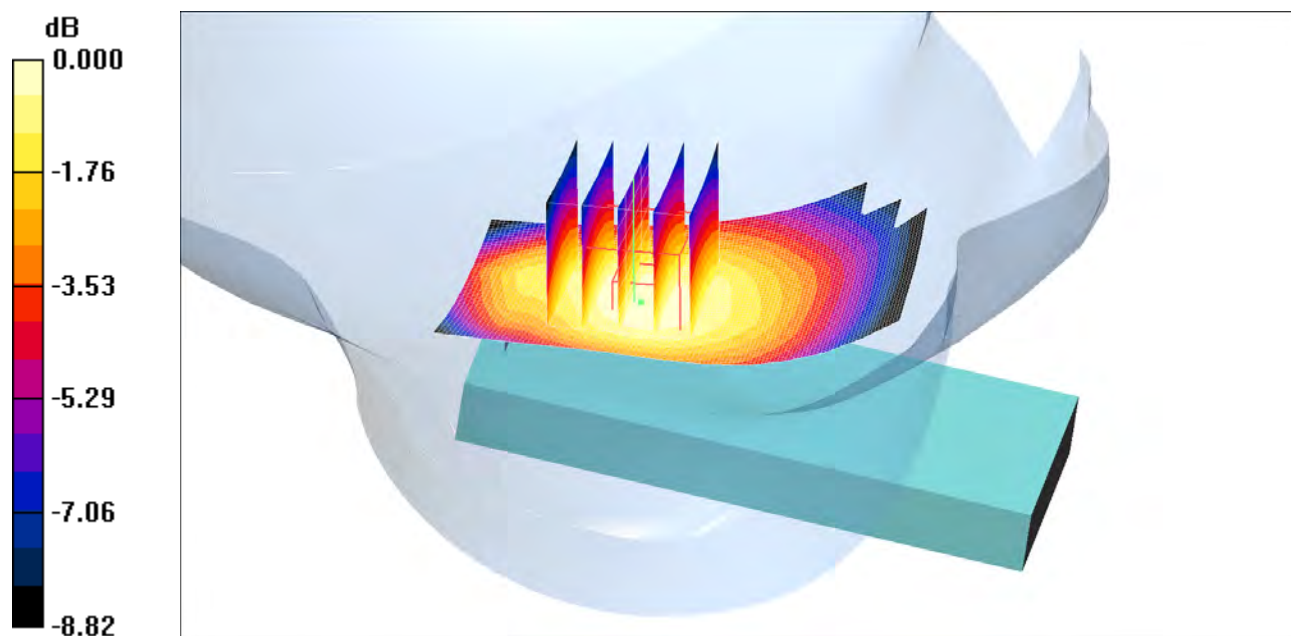
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.0 V/m; Power Drift = 0.168 dB

Peak SAR (extrapolated) = 0.584 W/kg

SAR(1 g) = 0.484 mW/g; SAR(10 g) = 0.367 mW/g

Maximum value of SAR (measured) = 0.513 mW/g



0 dB = 0.513mW/g

Date/Time: 2/12/2009 9:49:13 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-RightHandSide-GSM850-Closed-Touch-Middle**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

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

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

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

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

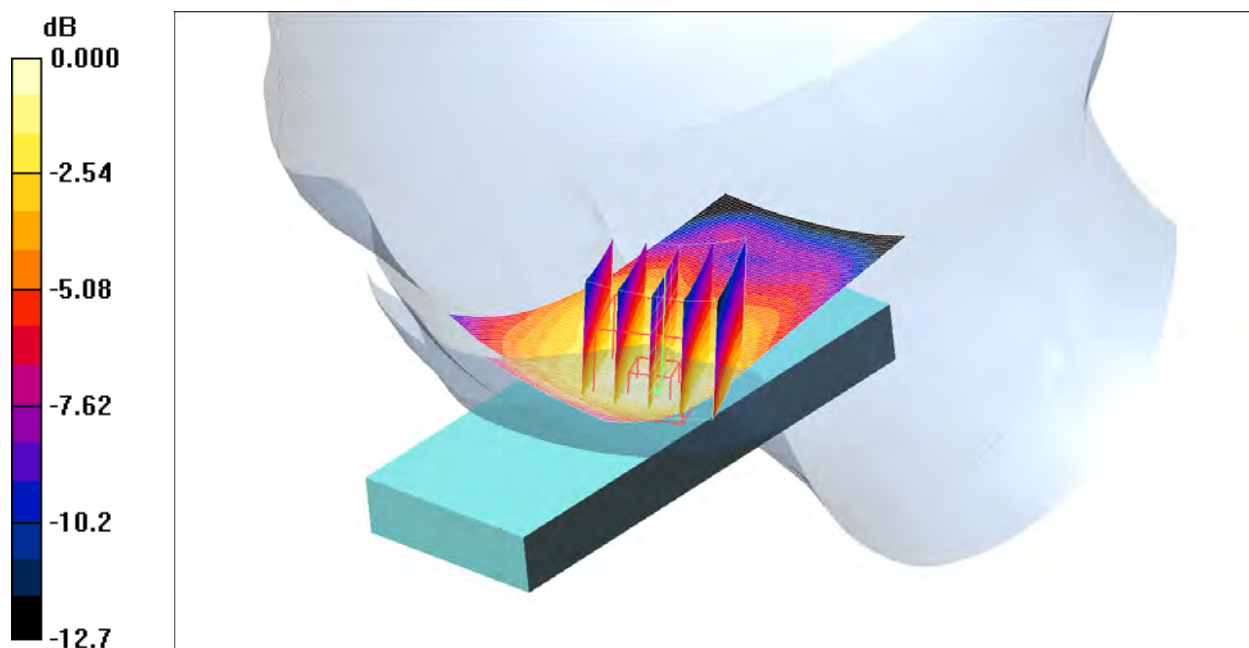
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.1 V/m; Power Drift = -0.108 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.746 mW/g; SAR(10 g) = 0.486 mW/g

Maximum value of SAR (measured) = 0.805 mW/g



0 dB = 0.805mW/g

Date/Time: 2/12/2009 10:05:04 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-RightHandSide-GSM850-Closed-Tilt-Middle**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.86$ mho/m; $\epsilon_r = 39.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.2, 6.2, 6.2); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-2; Type: SAM; Serial: 1025
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.512 mW/g

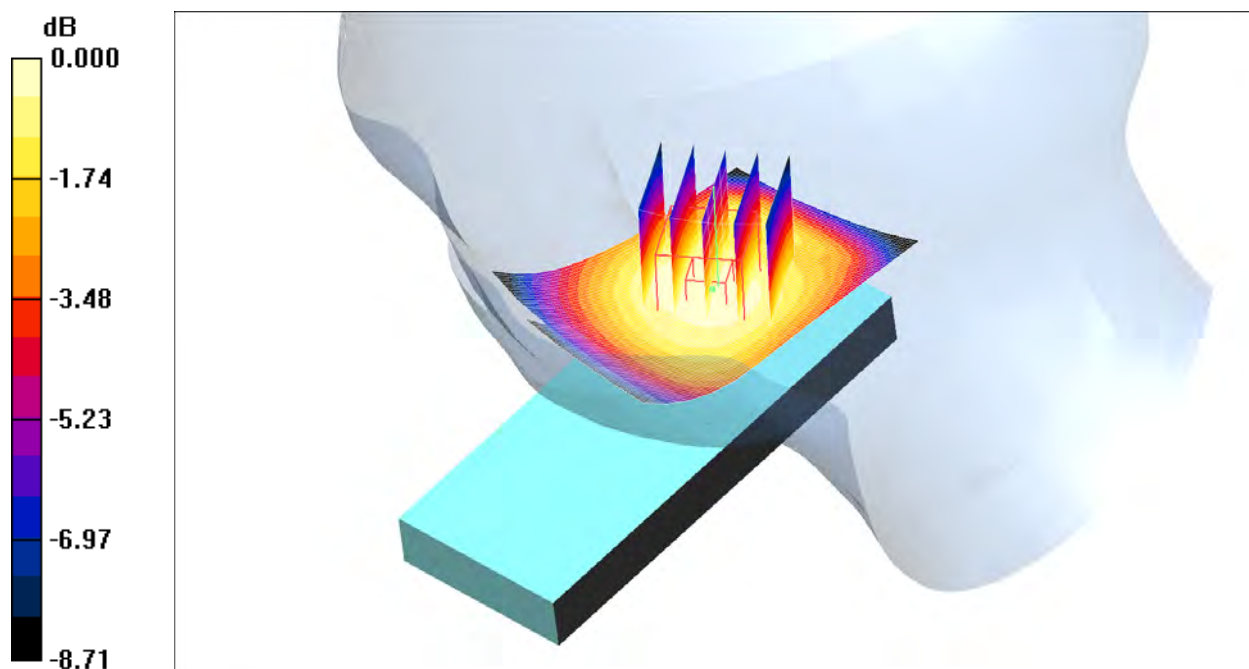
Tilt position - Middle- Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.1 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.565 W/kg

SAR(1 g) = 0.482 mW/g; SAR(10 g) = 0.368 mW/g

Maximum value of SAR (measured) = 0.506 mW/g



0 dB = 0.506mW/g

Date/Time: 3/11/2009 1:01:45 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-LeftHandSide-GSM1900-Touch-Low-Open**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 38.2$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.965 mW/g

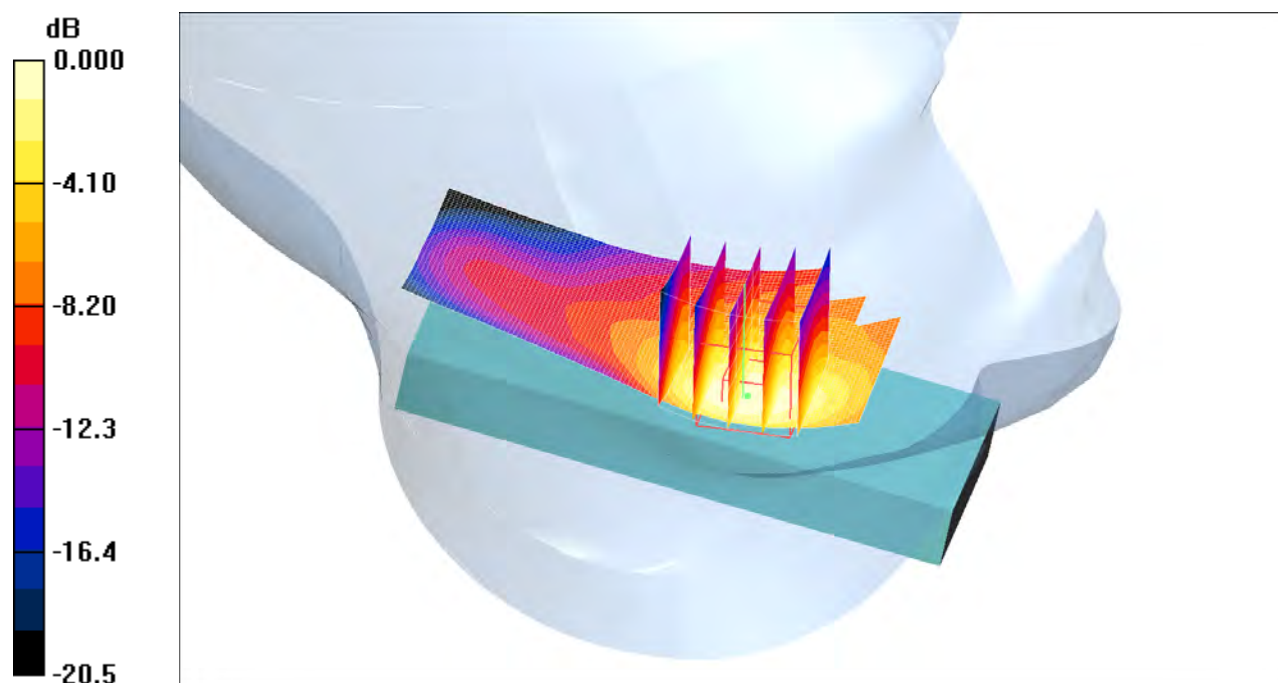
Touch - Low/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.87 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.835 mW/g; SAR(10 g) = 0.466 mW/g

Maximum value of SAR (measured) = 0.944 mW/g



0 dB = 0.944mW/g

Date/Time: 2/24/2009 2:57:47 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-LeftHandSide-GSM1900-Tilt-Middle-Closed**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.1$; $\rho = 1000$ 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 - Slider Closed/Area Scan (61x111x1): Measurement grid:
dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.421 mW/g

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

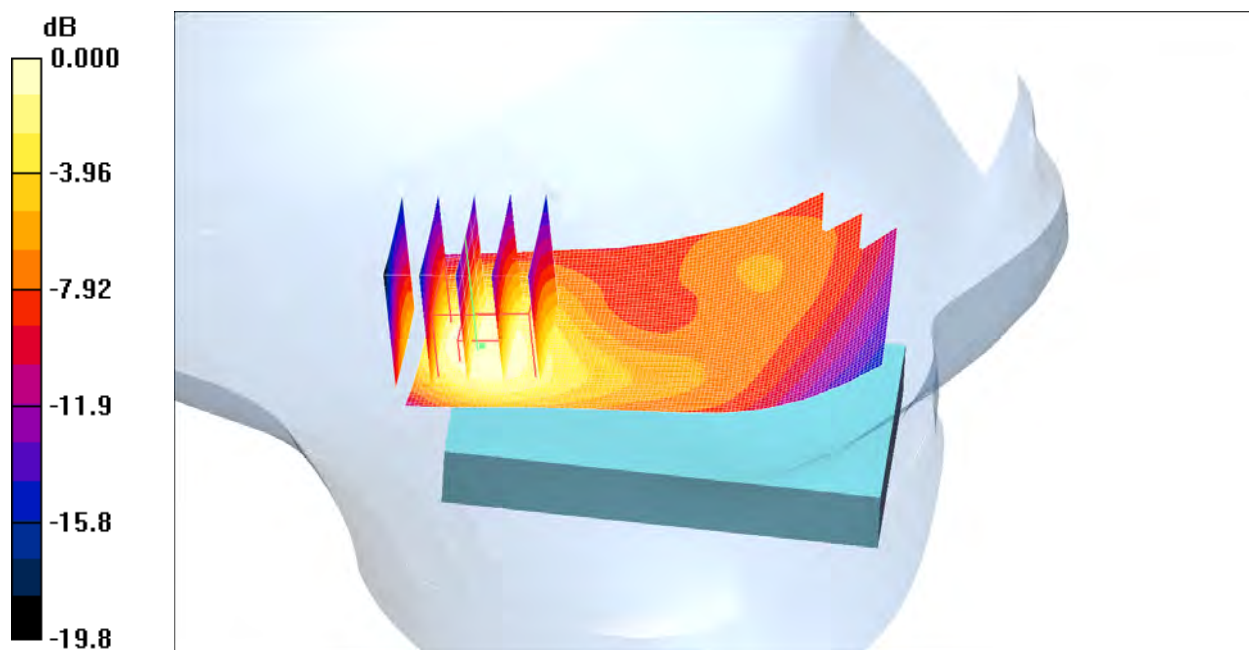
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.4 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 0.597 W/kg

SAR(1 g) = 0.375 mW/g; SAR(10 g) = 0.214 mW/g

Maximum value of SAR (measured) = 0.415 mW/g



0 dB = 0.415mW/g

Date/Time: 2/26/2009 2:22:14 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-RightHandSide-GSM1900-Touch-High-Closed**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASYS4 (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: DASYS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 1.25 mW/g

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

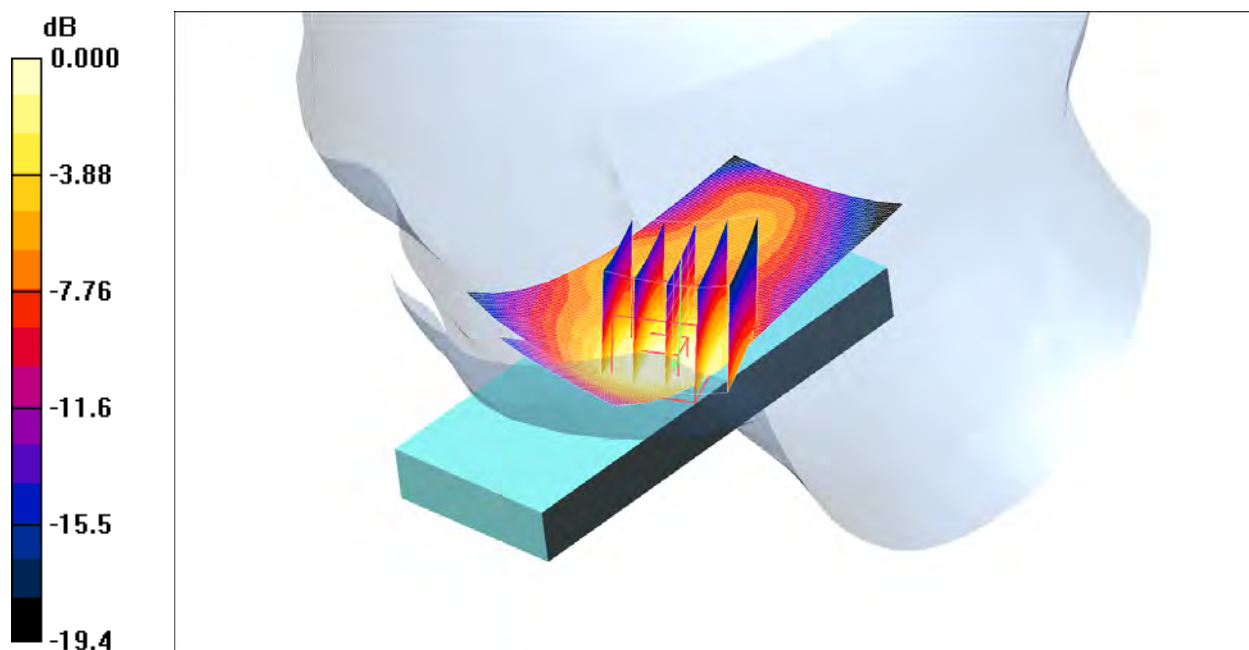
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.4 V/m; Power Drift = -0.049 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.09 mW/g; SAR(10 g) = 0.593 mW/g

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



0 dB = 1.15mW/g

Date/Time: 2/26/2009 1:14:29 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-RightHandSide-GSM1900-Tilt-Middle-Closed**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.4$ 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(5.2, 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- Slider Closed/Area Scan (61x111x1): Measurement grid:
dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.448 mW/g

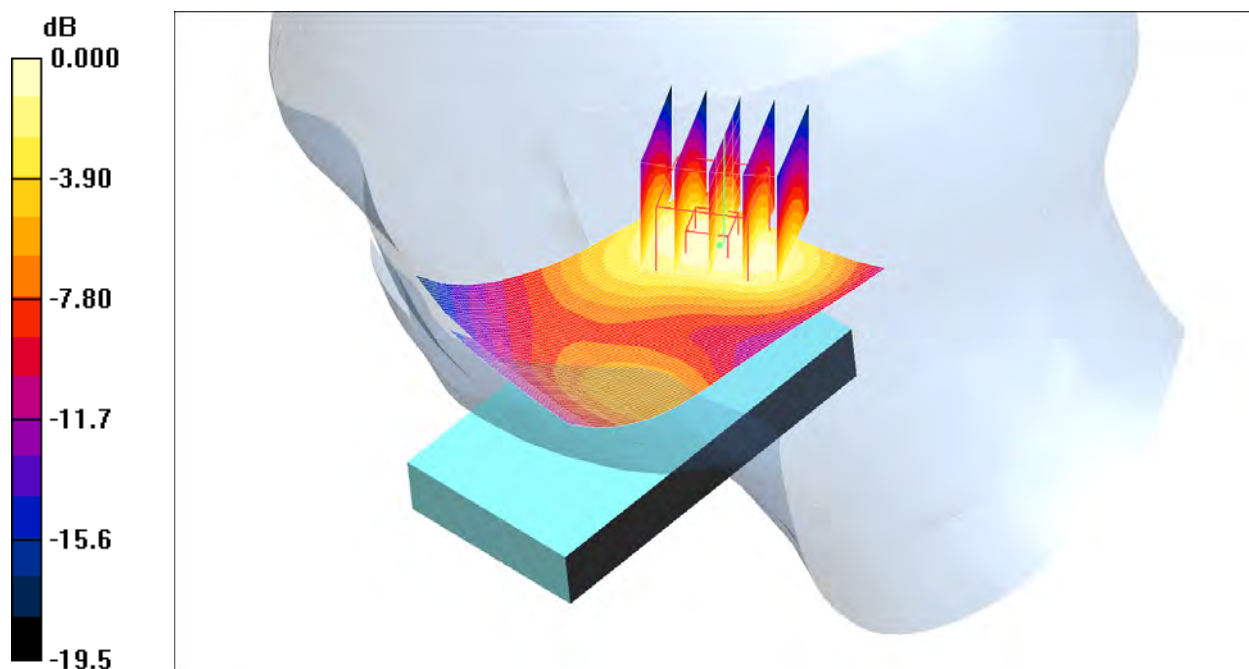
Tilt position - Middle- Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.4 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 0.677 W/kg

SAR(1 g) = 0.392 mW/g; SAR(10 g) = 0.228 mW/g

Maximum value of SAR (measured) = 0.420 mW/g



0 dB = 0.420mW/g

Date/Time: 3/4/2009 10:38:01 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-LeftHandSide-WLAN-Touch-Middle-Closed**DUT: Hikaru; Type: DUT; Serial: #14611**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ 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 - Slider Closed/Area Scan (61x111x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.228 mW/g

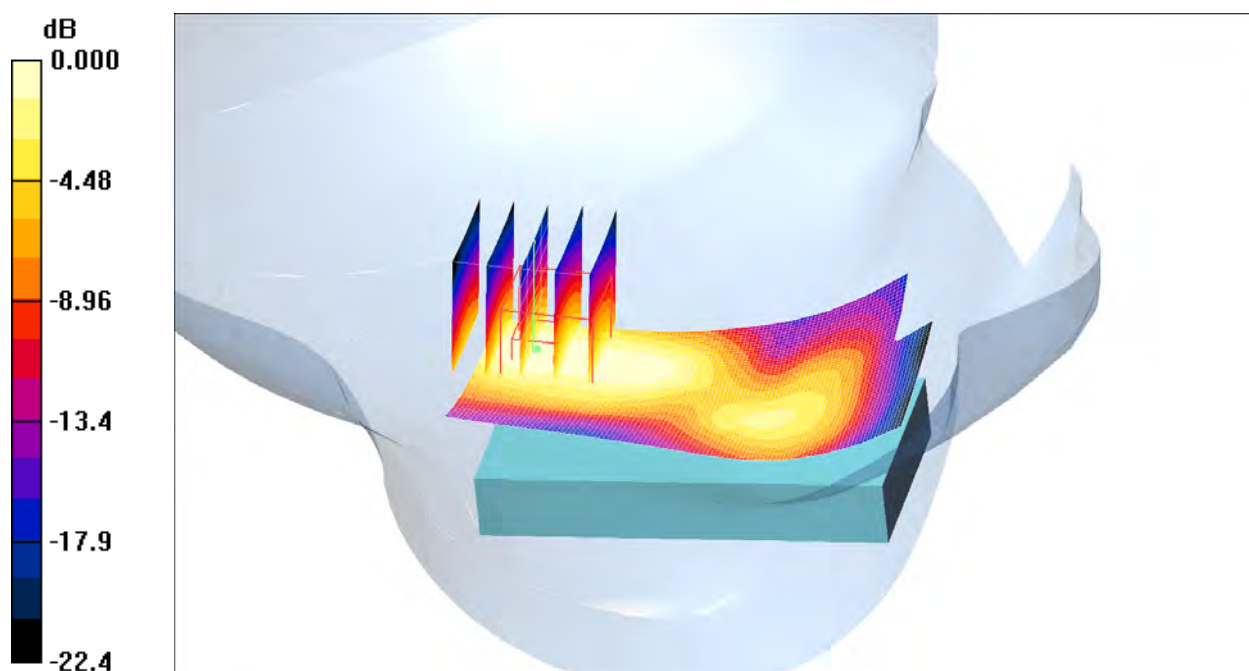
Touch position - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.59 V/m; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 0.461 W/kg

SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.099 mW/g

Maximum value of SAR (measured) = 0.216 mW/g



0 dB = 0.216mW/g

Date/Time: 3/4/2009 10:54:03 AM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-LeftHandSide-WLAN-Tilt-Middle-Closed**DUT: Hikaru; Type: DUT; Serial: #14611**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

Maximum value of SAR (interpolated) = 0.204 mW/g

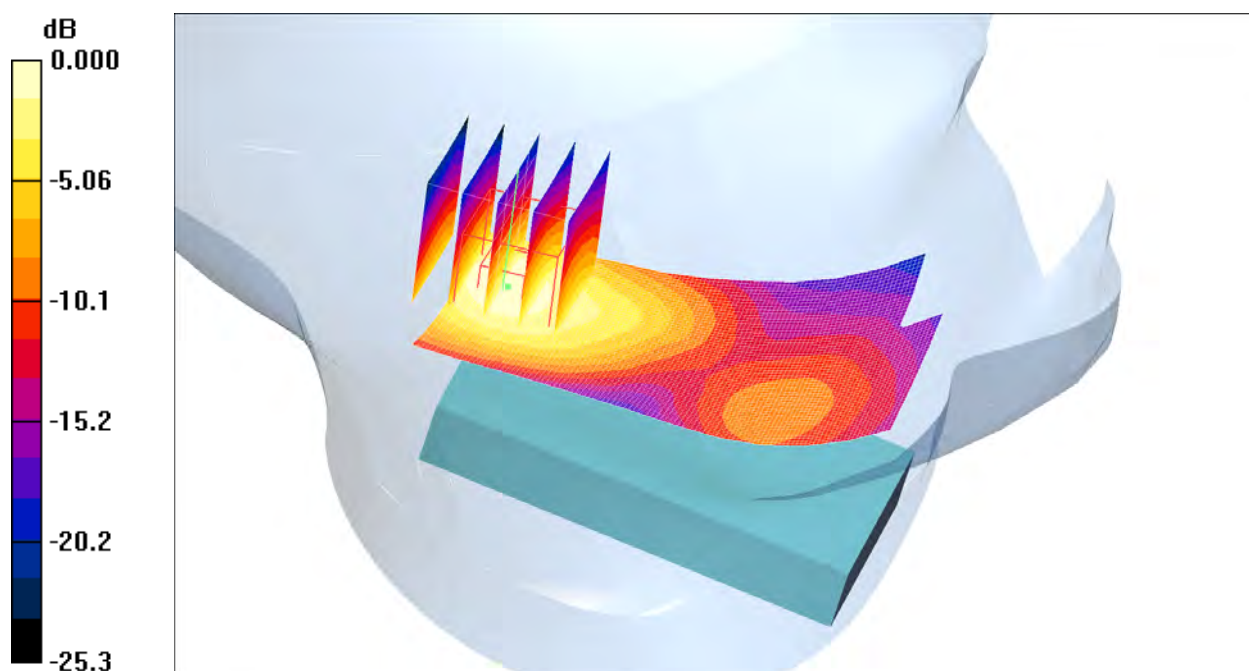
Tilt position - Slider Closed/Zoom Scan (5x5x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.08 V/m; Power Drift = -0.177 dB

Peak SAR (extrapolated) = 0.456 W/kg

SAR(1 g) = 0.181 mW/g; SAR(10 g) = 0.086 mW/g

Maximum value of SAR (measured) = 0.197 mW/g



0 dB = 0.197mW/g

Date/Time: 3/4/2009 1:56:30 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-RightHandSide-WLAN-Touch-Middle-Closed**DUT: Hikaru; Type: DUT; Serial: #14611**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ 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 - Middle - Slider Closed/Area Scan (61x111x1): Measurement grid:
dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.168 mW/g

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

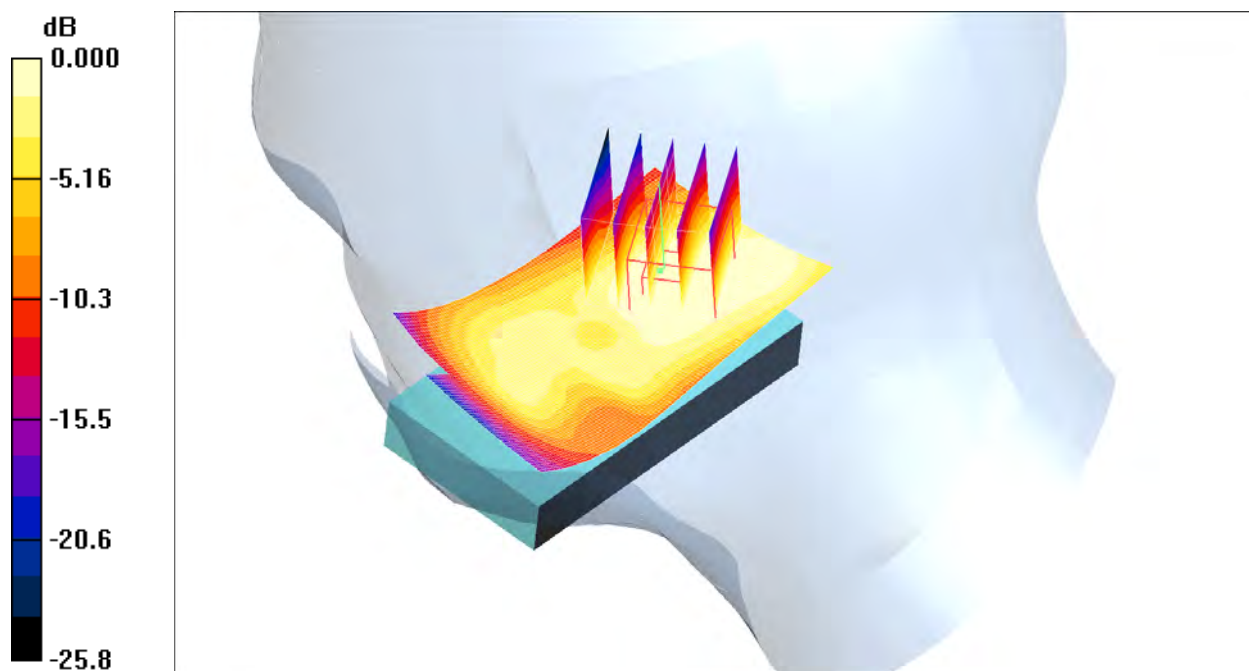
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.27 V/m; Power Drift = -0.278 dB

Peak SAR (extrapolated) = 0.282 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.086 mW/g

Maximum value of SAR (measured) = 0.153 mW/g



0 dB = 0.153mW/g

Date/Time: 3/4/2009 2:11:24 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Hikaru1,8-RightHandSide-WLAN-Tilt-Middle-Closed**DUT: Hikaru; Type: DUT; Serial: #14611**

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

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 37.9$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Measurement Standard: DASYS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.6, 4.6, 4.6); Calibrated: 11/7/2008
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn448; Calibrated: 11/5/2008
- Phantom: SAM-1; Type: SAM; Serial: 1437
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

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

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

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

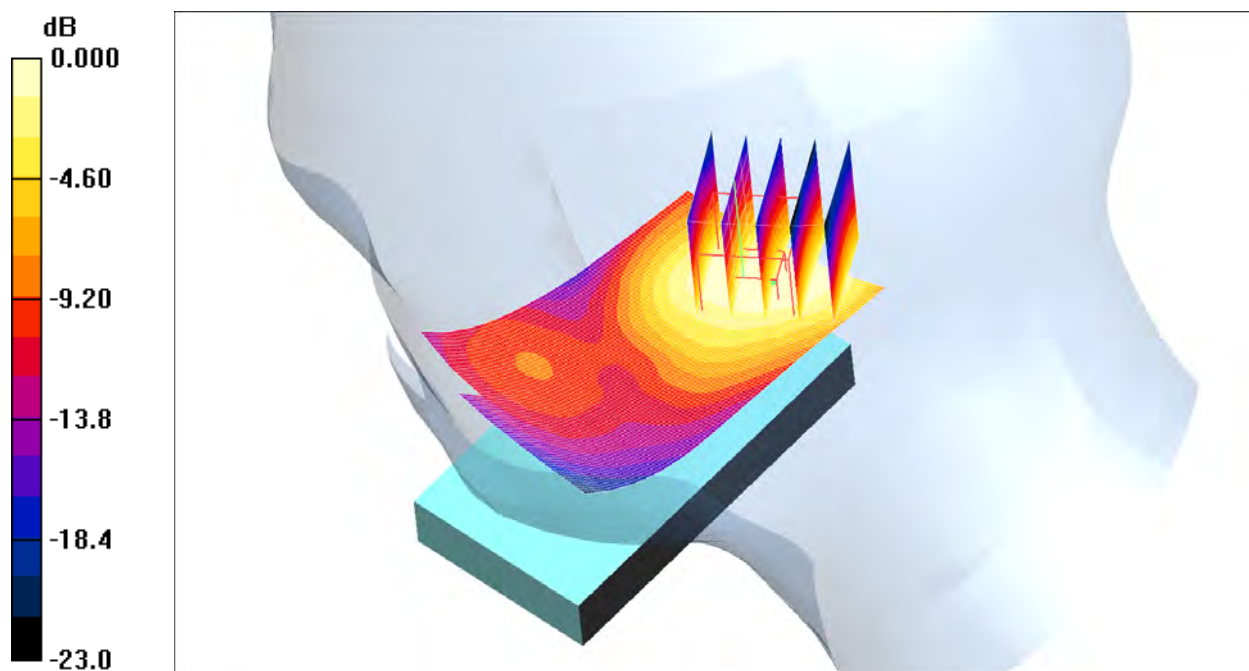
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.64 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.349 W/kg

SAR(1 g) = 0.161 mW/g; SAR(10 g) = 0.086 mW/g

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



0 dB = 0.173mW/g

Date/Time: 3/2/2009 3:14:37 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Hikaru1,8-850-Speech-High**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 848.8$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.924 mW/g

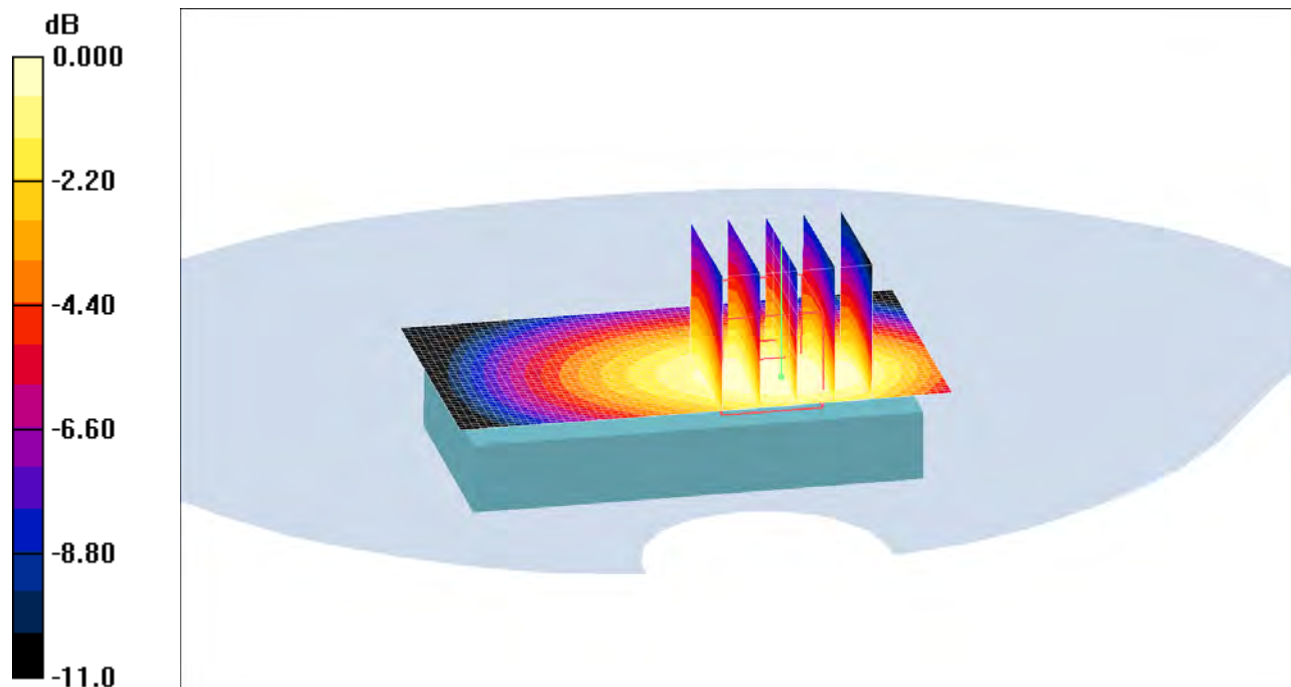
Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.9 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.865 mW/g; SAR(10 g) = 0.614 mW/g

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



0 dB = 0.919mW/g

Date/Time: 3/2/2009 2:54:01 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Hikaru1,8-850-Speech-PHF-High**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.99$ mho/m; $\epsilon_r = 53.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.755 mW/g

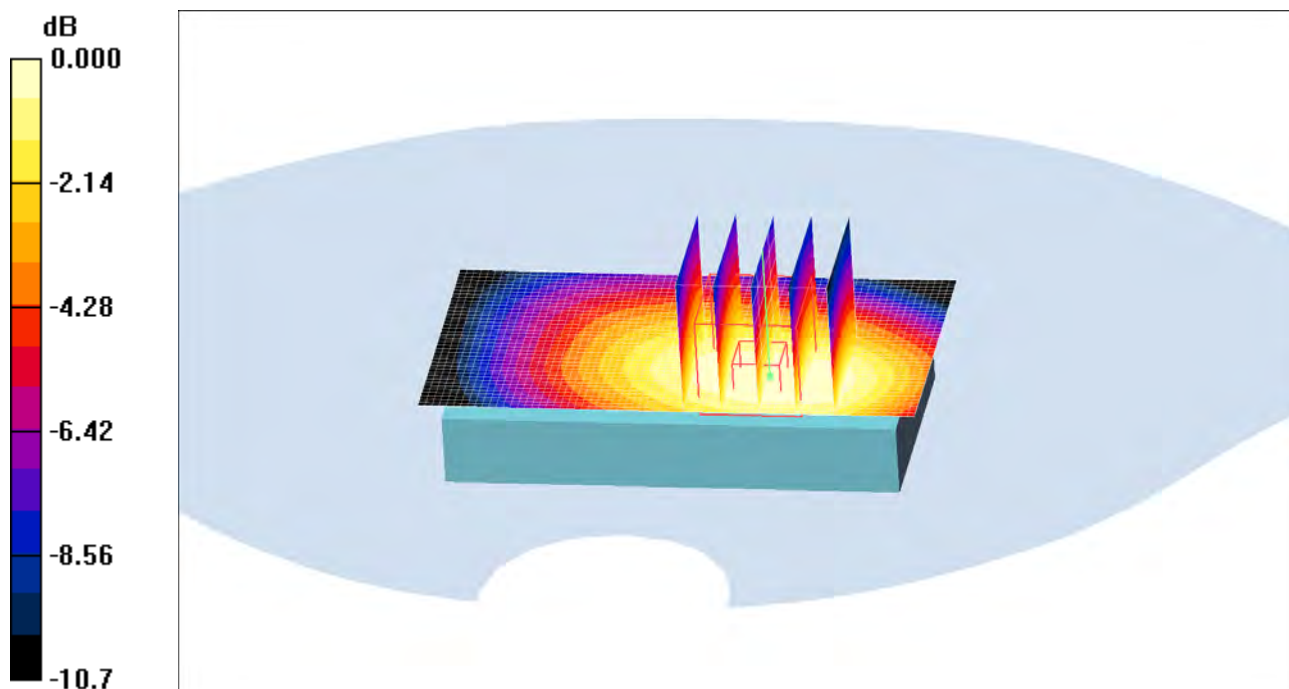
Body PHF/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.5 V/m; Power Drift = 0.054 dB

Peak SAR (extrapolated) = 0.918 W/kg

SAR(1 g) = 0.713 mW/g; SAR(10 g) = 0.509 mW/g

Maximum value of SAR (measured) = 0.760 mW/g



0 dB = 0.760mW/g

Date/Time: 3/2/2009 1:50:38 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Hikaru1,8-850-GPRS-High**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 848.8$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

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

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

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

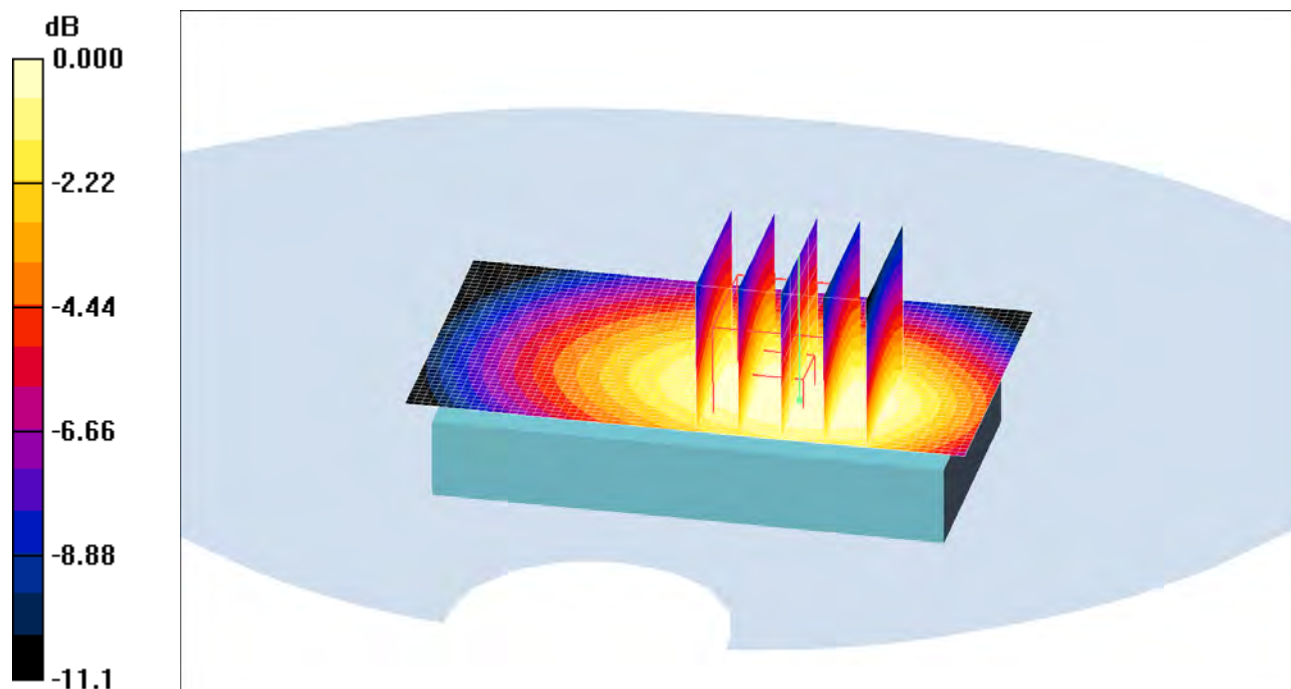
Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 30.5 V/m; Power Drift = -0.055 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.751 mW/g

Maximum value of SAR (measured) = 1.11 mW/g



Date/Time: 3/2/2009 2:01:23 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Hikaru1,8-850-GPRS-Front-High**DUT: Hikaru; Type: DUT; Serial: #14608**

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

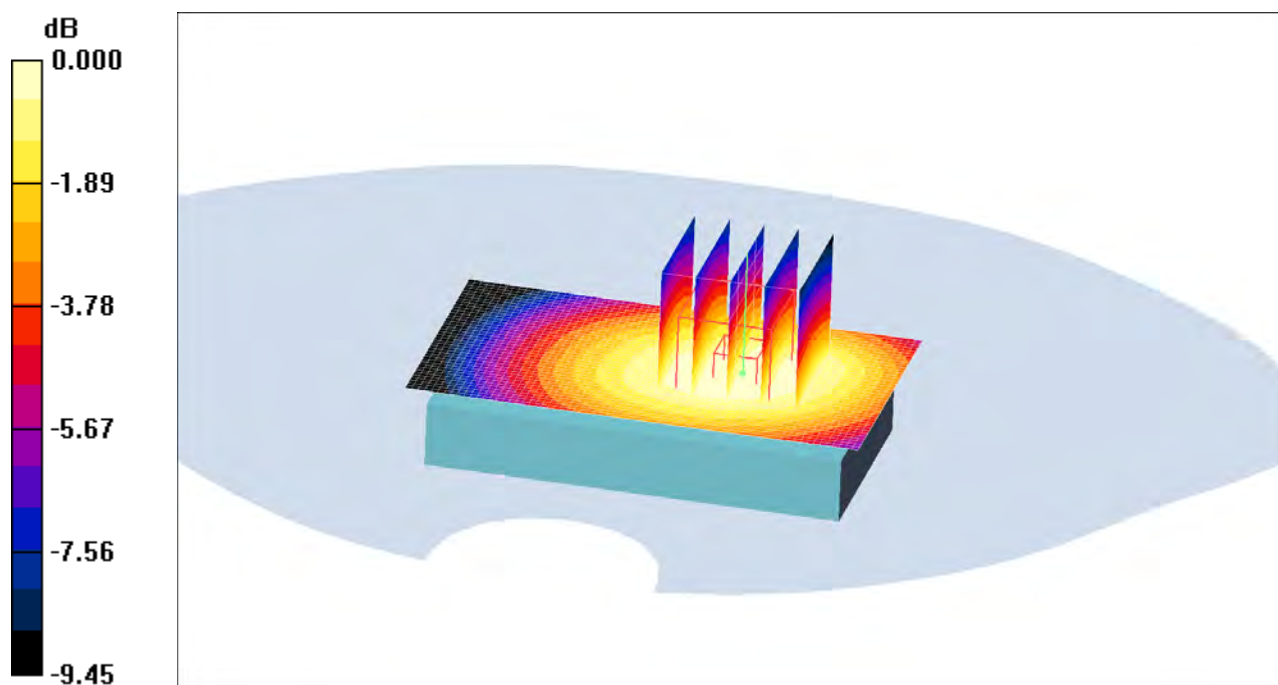
Medium parameters used: $f = 848.8$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 53.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(6.15, 6.15, 6.15); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front To Phantom/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.630 mW/g
- Body Front To Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.9 V/m; Power Drift = -0.016 dB
Peak SAR (extrapolated) = 0.708 W/kg
SAR(1 g) = 0.588 mW/g; SAR(10 g) = 0.437 mW/g
Maximum value of SAR (measured) = 0.623 mW/g



0 dB = 0.623mW/g

Date/Time: 2/20/2009 2:56:36 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Hikaru1,8-1900-Speech-High**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.590 mW/g

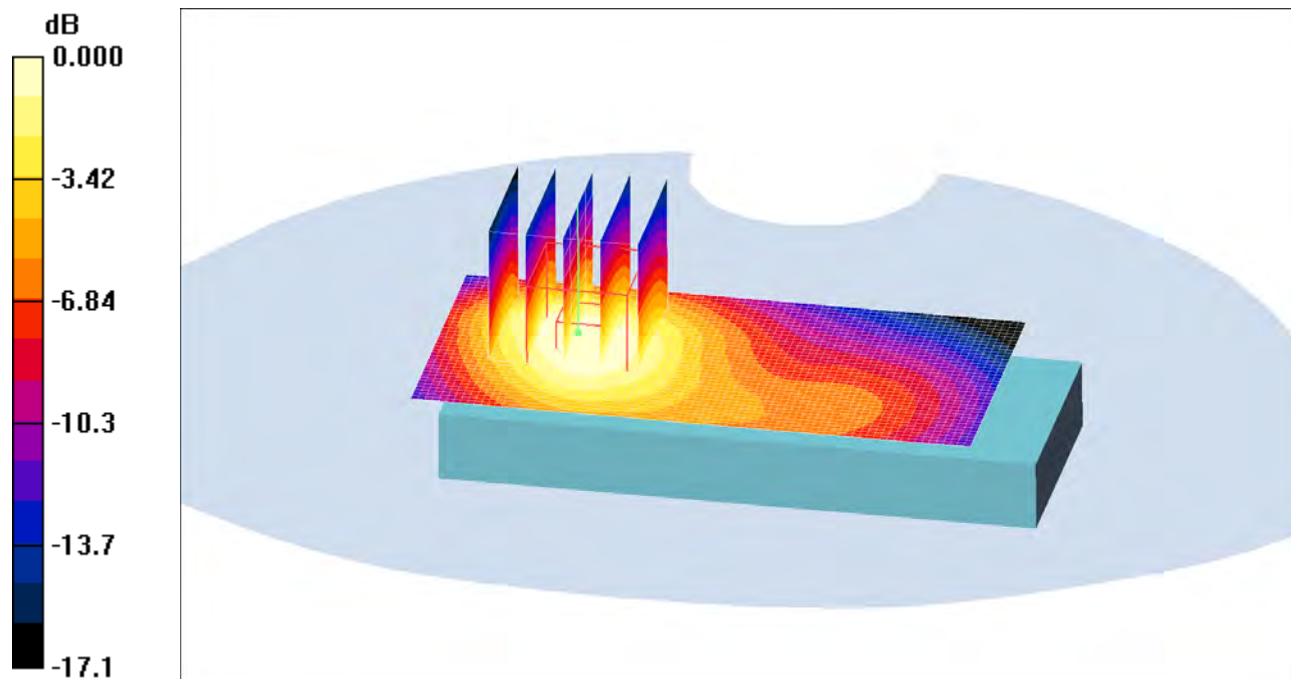
Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.1 V/m; Power Drift = 0.010 dB

Peak SAR (extrapolated) = 0.956 W/kg

SAR(1 g) = 0.536 mW/g; SAR(10 g) = 0.314 mW/g

Maximum value of SAR (measured) = 0.573 mW/g



0 dB = 0.573mW/g

Date/Time: 2/20/2009 2:24:41 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Hikaru1,8-1900-Speech-PHF-Middle**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.483 mW/g

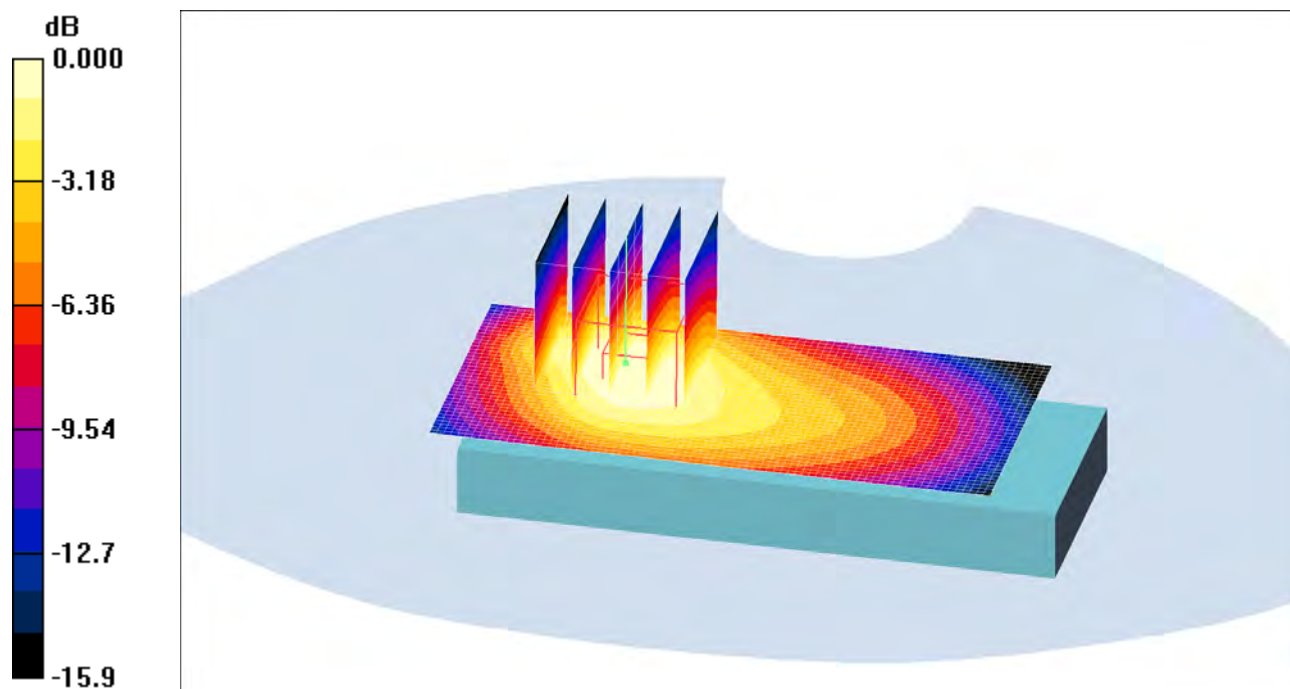
Body PHF/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = -0.060 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.429 mW/g; SAR(10 g) = 0.259 mW/g

Maximum value of SAR (measured) = 0.460 mW/g



0 dB = 0.460mW/g

Date/Time: 2/20/2009 1:25:04 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Hikaru1,8-1900-GPRS-High**DUT: Hikaru; Type: DUT; Serial: #14608**

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

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.515 mW/g

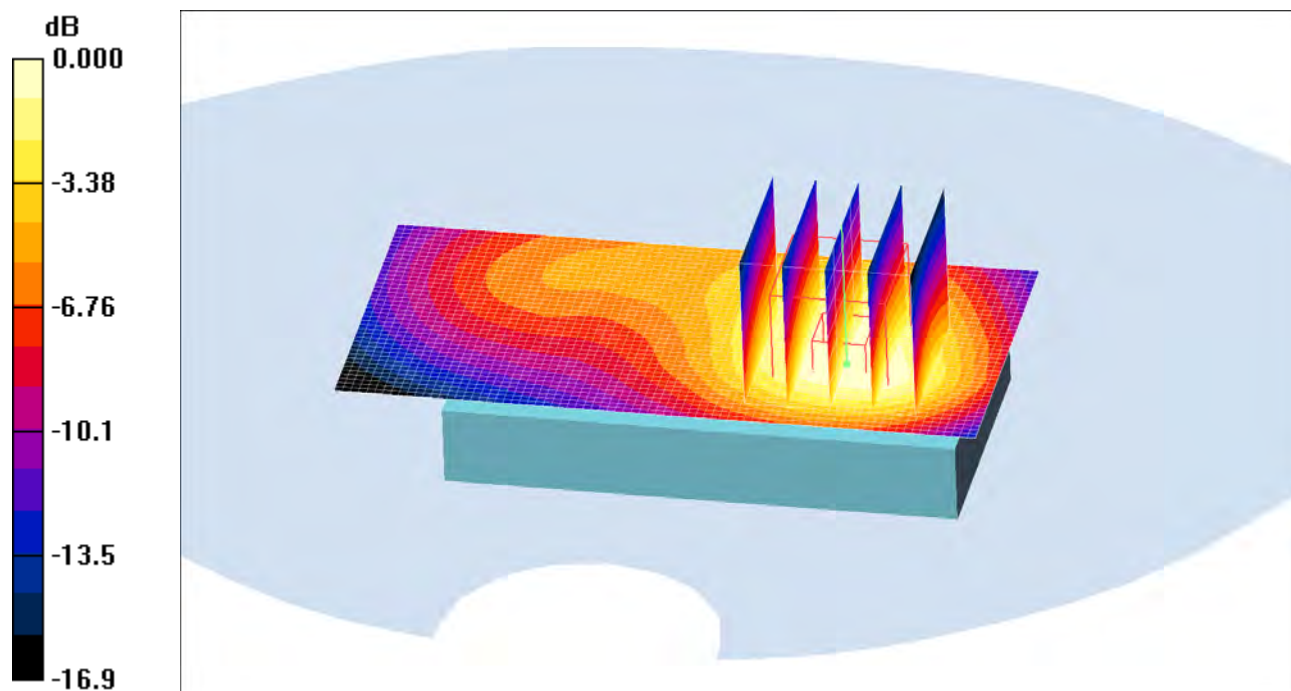
Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 0.811 W/kg

SAR(1 g) = 0.463 mW/g; SAR(10 g) = 0.273 mW/g

Maximum value of SAR (measured) = 0.495 mW/g



0 dB = 0.495mW/g

Date/Time: 2/20/2009 1:56:21 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Hikaru1,8-1900-GPRS-Front-High**DUT: Hikaru; Type: DUT; Serial: #14608**

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

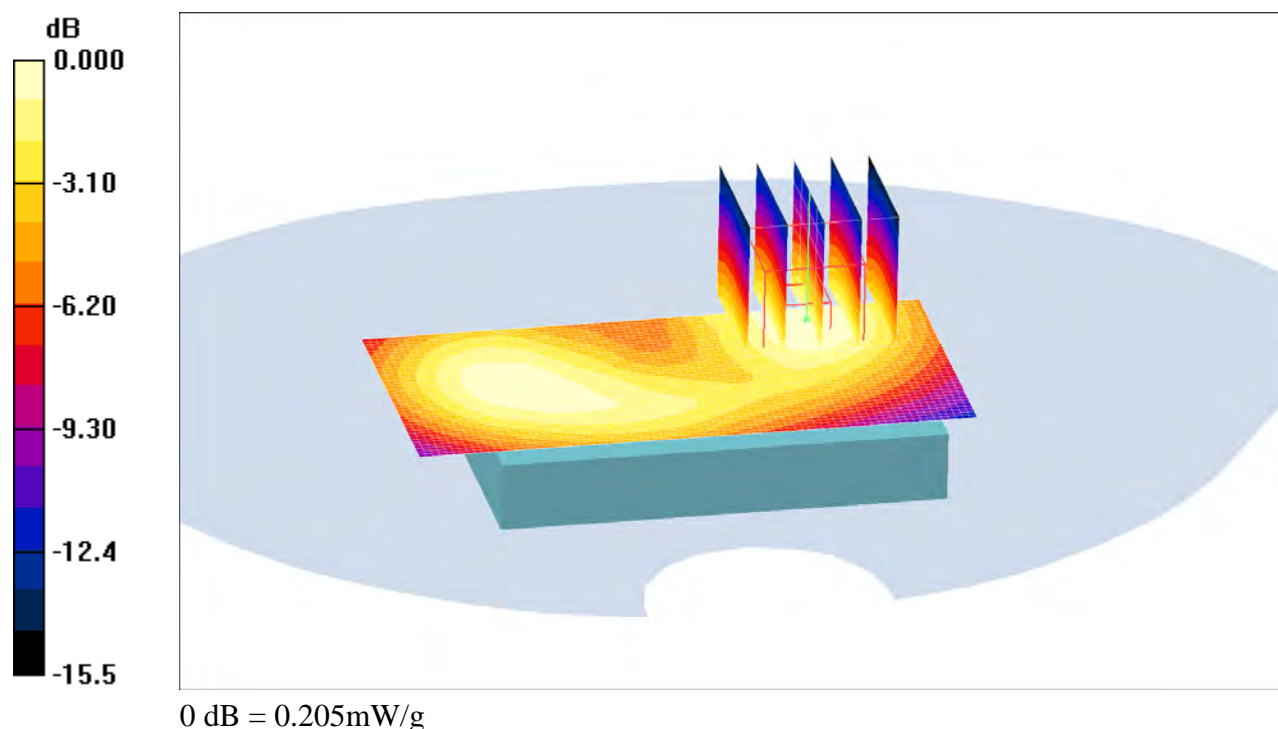
Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.54$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(4.48, 4.48, 4.48); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front to Phantom/Area Scan (41x81x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.203 mW/g
- Body Front to Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.63 V/m; Power Drift = 0.066 dB
Peak SAR (extrapolated) = 0.315 W/kg
SAR(1 g) = 0.189 mW/g; SAR(10 g) = 0.113 mW/g
Maximum value of SAR (measured) = 0.205 mW/g



Date/Time: 3/3/2009 3:44:08 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Hikaru1,8-Body-WLAN-Front-High**DUT: Hikaru; Type: DUT; Serial: #14611**

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

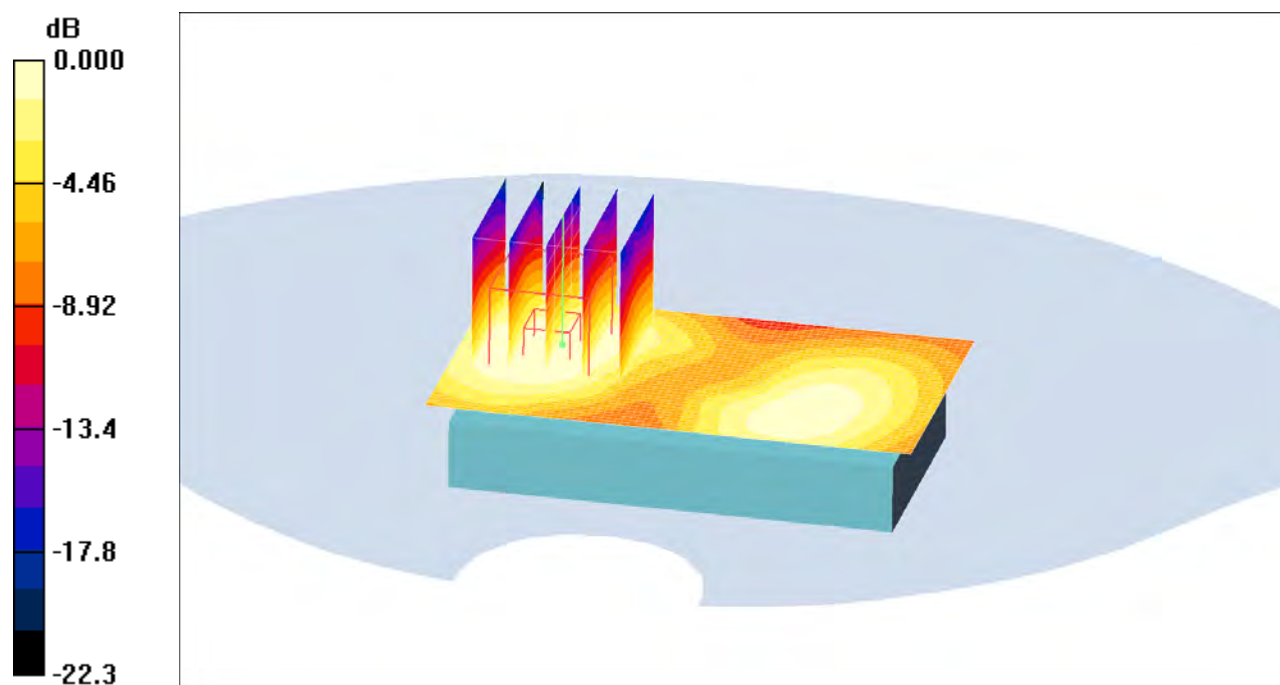
Medium parameters used: $f = 2462$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1610; ConvF(3.94, 3.94, 3.94); Calibrated: 11/7/2008
 - Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Electronics: DAE3 Sn448; Calibrated: 11/5/2008
 - Phantom: SAM-3; Type: SAM; Serial: 1436
 - Measurement SW: DAS4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172
- Body Front To Phantom/Area Scan (41x71x1):** Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.054 mW/g
- Body Front To Phantom/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.08 V/m; Power Drift = 0.335 dB
Peak SAR (extrapolated) = 0.095 W/kg
SAR(1 g) = 0.048 mW/g; SAR(10 g) = 0.027 mW/g
Maximum value of SAR (measured) = 0.050 mW/g



0 dB = 0.050mW/g

Date/Time: 3/3/2009 3:07:00 PM

Test Laboratory: Sony Ericsson Mobile Communications International AB

Body-Flat15mm-Hikaru1,8-Body-WLAN-High**DUT: Hikaru; Type: DUT; Serial: #14611**

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

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.139 mW/g

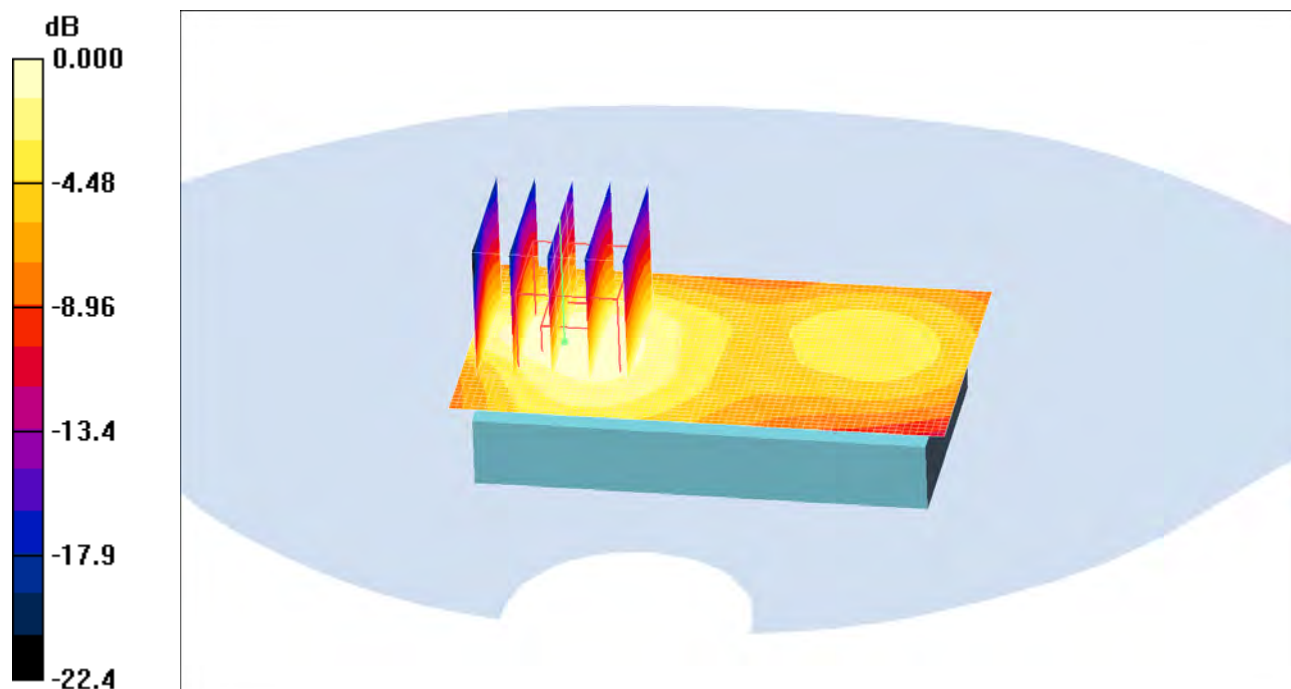
Body 3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.43 V/m; Power Drift = -0.270 dB

Peak SAR (extrapolated) = 0.254 W/kg

SAR(1 g) = 0.122 mW/g; SAR(10 g) = 0.067 mW/g

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



0 dB = 0.129mW/g